

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030420\
 Data File : VY001853.D
 Acq On : 04 Mar 2020 15:06
 Operator : SY/MD
 Sample : L1161-01 4PPBLOD
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/5/2020 1:37:25 PM

Quant Time: Mar 05 05:52:41 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	7.81	168	177708	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	321057	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	285219	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	130994	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	96899	51.08	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.16%	
35) Dibromofluoromethane	7.74	113	88993	50.76	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	101.52%	
50) Toluene-d8	10.19	98	375160	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.49	95	129609	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.91	85	7299	4.450	ug/l	96
3) Chloromethane	2.12	50	9838	4.448	ug/l #	88
4) Vinyl Chloride	2.26	62	9694	4.309	ug/l	100
5) Bromomethane	2.66	94	7612	5.100	ug/l	97
6) Chloroethane	2.80	64	5838	4.131	ug/l	90
7) Trichlorofluoromethane	3.14	101	13259	4.346	ug/l	99
8) Diethyl Ether	3.55	74	5138	4.273	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.91	101	8450	4.306	ug/l	97
10) Methyl Iodide	4.10	142	8016	3.532	ug/l	99
11) Tert butyl alcohol	4.97	59	4233	18.278	ug/l #	85
12) 1,1-Dichloroethene	3.88	96	8349	4.226	ug/l	93
13) Acrolein	3.75	56	5634	21.133	ug/l	90
14) Allyl chloride	4.49	41	15218	4.345	ug/l	98
15) Acrylonitrile	5.19	53	13484	20.986	ug/l	98
16) Acetone	3.97	43	11073	20.039	ug/l	91
17) Carbon Disulfide	4.21	76	27887	4.199	ug/l	99
18) Methyl Acetate	4.50	43	6341	4.466	ug/l	94
19) Methyl tert-butyl Ether	5.25	73	22523	4.207	ug/l	92
20) Methylene Chloride	4.74	84	12914	5.453	ug/l	92
21) trans-1,2-Dichloroethene	5.24	96	9562	4.264	ug/l	92
22) Diisopropyl ether	6.14	45	30735	4.281	ug/l	98
23) Vinyl Acetate	6.08	43	97052	20.619	ug/l	98
24) 1,1-Dichloroethane	6.04	63	16525	4.250	ug/l #	95
25) 2-Butanone	7.00	43	17233	20.508	ug/l	95
26) 2,2-Dichloropropane	7.00	77	13271	4.159	ug/l	95
27) cis-1,2-Dichloroethene	7.01	96	10211	4.186	ug/l	99
28) Bromochloromethane	7.35	49	7772	4.435	ug/l	99
29) Tetrahydrofuran	7.37	42	11758	21.071	ug/l	100
30) Chloroform	7.52	83	15471	4.235	ug/l	92
31) Cyclohexane	7.80	56	21045	5.048	ug/l #	82
32) 1,1,1-Trichloroethane	7.72	97	12695	4.123	ug/l	97
36) 1,1-Dichloropropene	7.93	75	13176	4.265	ug/l	96
37) Ethyl Acetate	7.10	43	7655	4.263	ug/l	97
38) Carbon Tetrachloride	7.91	117	11062	4.191	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	17334	4.230	ug/l	91
40) Benzene	8.18	78	38521	4.207	ug/l	98
41) Methacrylonitrile	7.33	41	3479m	4.305	ug/l	
42) 1,2-Dichloroethane	8.25	62	10274	4.354	ug/l	98
43) Isopropyl Acetate	8.29	43	13962	4.107	ug/l	99
44) Trichloroethene	8.95	130	9356	4.195	ug/l	98
45) 1,2-Dichloropropane	9.23	63	9768	4.243	ug/l	93
46) Dibromomethane	9.32	93	4869	4.104	ug/l	95
47) Bromodichloromethane	9.51	83	11574	4.194	ug/l #	99
48) Methyl methacrylate	9.30	41	6253	4.145	ug/l	97
49) 1,4-Dioxane	9.31	88	1349	82.990	ug/l	98
51) 4-Methyl-2-Pentanone	10.08	43	35002	19.989	ug/l	100
52) Toluene	10.25	92	23595	4.241	ug/l	100
53) t-1,3-Dichloropropene	10.47	75	12171	4.048	ug/l	96
54) cis-1,3-Dichloropropene	9.94	75	14286	3.992	ug/l	97
55) 1,1,2-Trichloroethane	10.66	97	7392	4.258	ug/l	91
56) Ethyl methacrylate	10.52	69	9861	3.875	ug/l #	93
57) 1,3-Dichloropropane	10.80	76	12855	4.154	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.79	63	18997	18.827	ug/l	99
59) 2-Hexanone	10.84	43	25264	20.214	ug/l	99
60) Dibromochloromethane	10.99	129	7187	3.929	ug/l	100
61) 1,2-Dibromoethane	11.10	107	6620	4.025	ug/l	99
64) Tetrachloroethene	10.73	164	7814	4.369	ug/l	96
65) Chlorobenzene	11.52	112	23956	4.215	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.60	131	7412	3.977	ug/l	98
67) Ethyl Benzene	11.60	91	44992	4.245	ug/l	98
68) m/p-Xylenes	11.71	106	32878	8.390	ug/l	99
69) o-Xylene	12.03	106	15475	4.190	ug/l	100
70) Styrene	12.05	104	25393	4.014	ug/l	99
71) Bromoform	12.22	173	3898	3.857	ug/l #	97
73) Isopropylbenzene	12.34	105	41514	4.152	ug/l	98
74) N-amyl acetate	12.15	43	12554	4.085	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.59	83	8810	4.085	ug/l	99
76) 1,2,3-Trichloropropane	12.64	75	6470m	4.163	ug/l	
77) Bromobenzene	12.61	156	8882	4.192	ug/l	95
78) n-propylbenzene	12.67	91	52280	4.238	ug/l	99
79) 2-Chlorotoluene	12.76	91	28888	4.238	ug/l	98
80) 1,3,5-Trimethylbenzene	12.82	105	34892	4.238	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	2841	3.692	ug/l	92
82) 4-Chlorotoluene	12.86	91	30349	4.277	ug/l	98
83) tert-Butylbenzene	13.08	119	29141	4.262	ug/l	100
84) 1,2,4-Trimethylbenzene	13.13	105	34339	4.203	ug/l	99
85) sec-Butylbenzene	13.26	105	43160	4.282	ug/l	100
86) p-Isopropyltoluene	13.38	119	36922	4.247	ug/l	98
87) 1,3-Dichlorobenzene	13.38	146	18535	4.464	ug/l	98
88) 1,4-Dichlorobenzene	13.45	146	18155	4.311	ug/l	91
89) n-Butylbenzene	13.70	91	38471	4.265	ug/l	98
90) Hexachloroethane	13.97	117	6439	3.926	ug/l	100
91) 1,2-Dichlorobenzene	13.74	146	16257	4.310	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1471	4.372	ug/l	82

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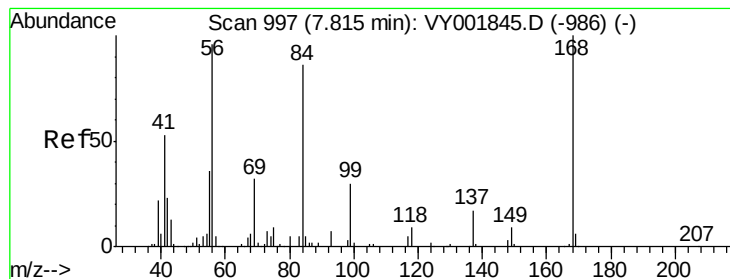
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.02	180	11423	4.670	ug/l	100
94) Hexachlorobutadiene	15.12	225	5532	4.639	ug/l	96
95) Naphthalene	15.24	128	24737	4.264	ug/l	99
96) 1,2,3-Trichlorobenzene	15.43	180	9414	4.369	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001853.D

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MSVOA_Y

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LOD-MDL-SOIL-01-QT1-2020

Tot Ion:168 Resp: 177708

Ion Ratio Lower Upper

168 100

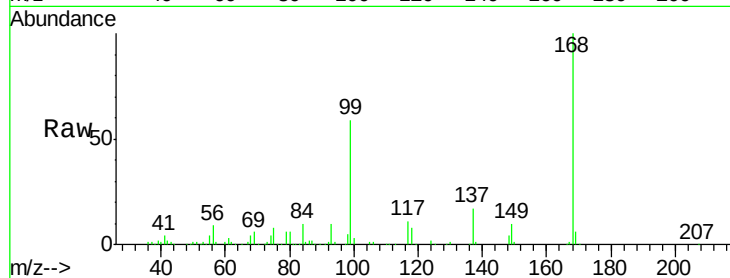
99 59.5 46.7 70.1

Manual Integrations

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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) (-)

7.81

80000

60000

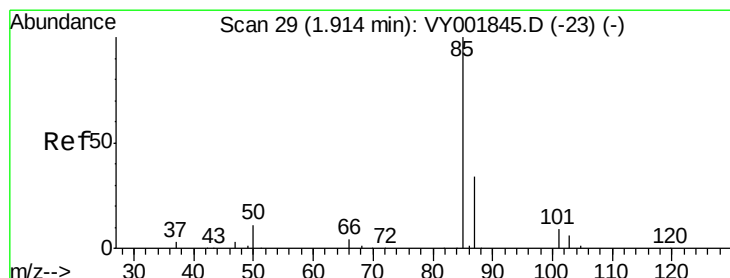
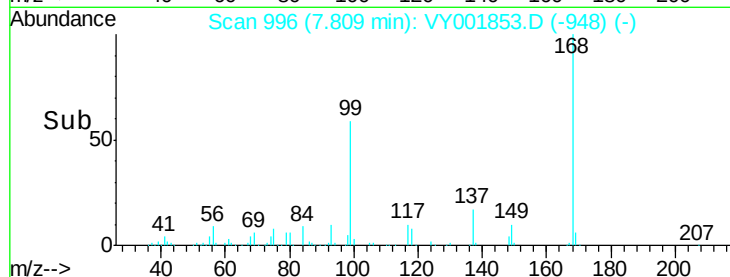
40000

20000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 4.450 ug/l

RT: 1.91 min Scan# 28

Delta R.T. -0.01 min

Lab File: VY001853.D

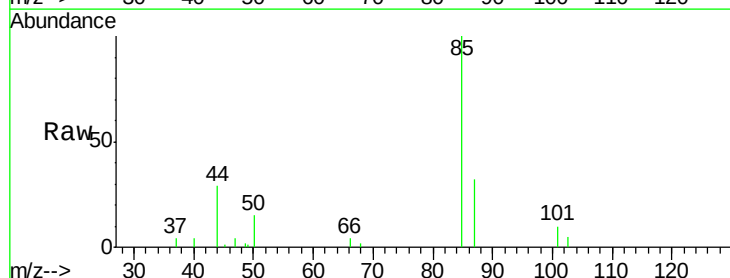
Acq: 04 Mar 2020 15:06

Tgt Ion: 85 Resp: 7299

Ion Ratio Lower Upper

85 100

87 31.6 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) (-)

1.91

5000

4000

3000

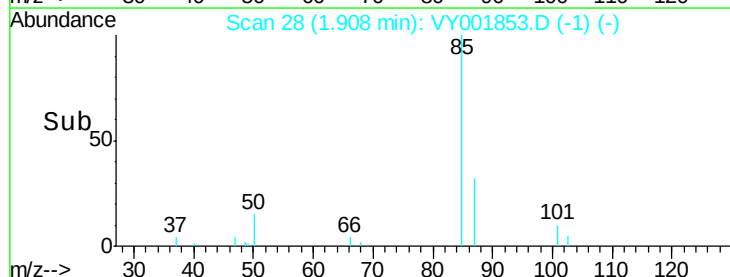
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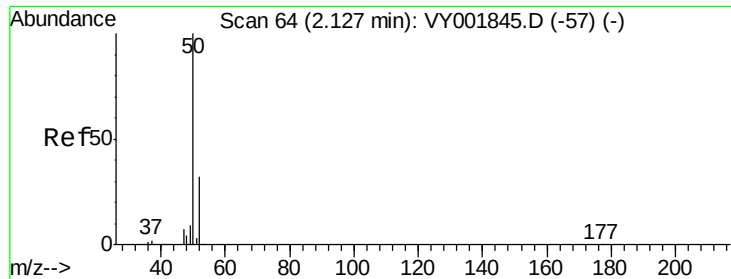
1000

0

1.85 1.90 1.95 2.00

Time-->





#3

Chloromethane

Concen: 4.448 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 50 Resp: 9838

Ion Ratio Lower Upper

50 100

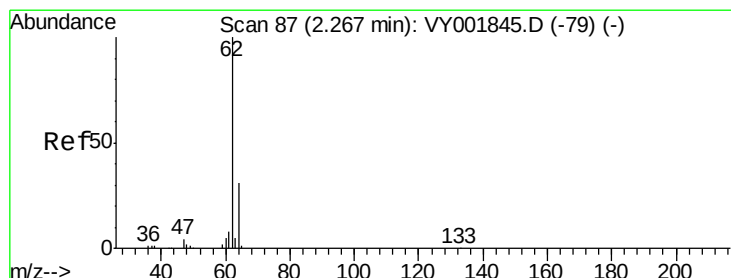
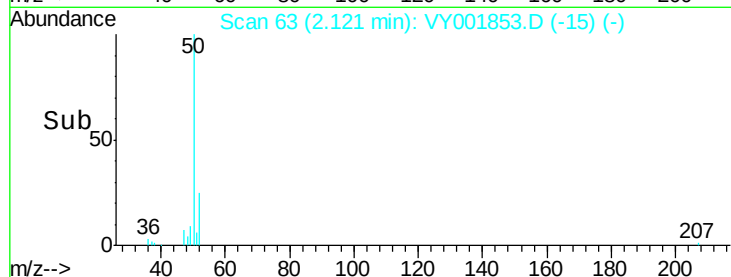
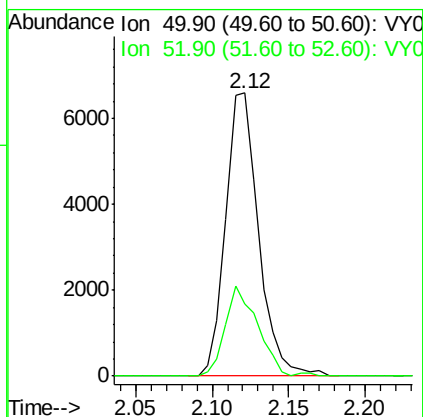
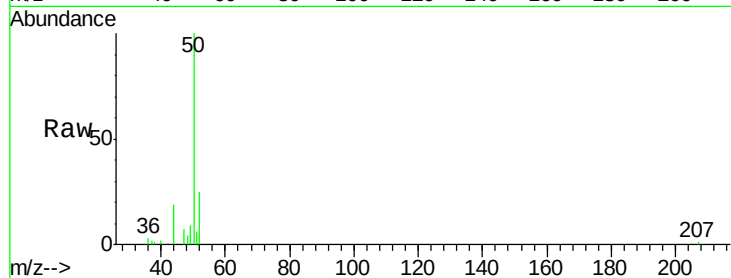
52 25.5 25.8 38.6#

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.309 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY001853.D

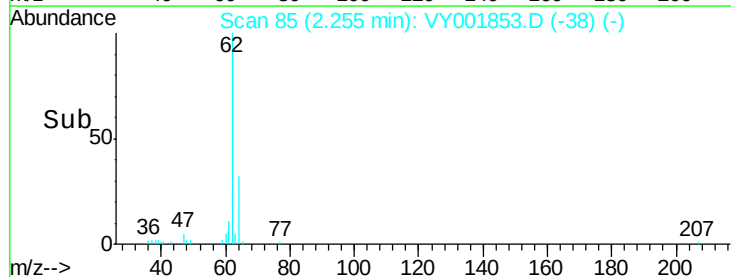
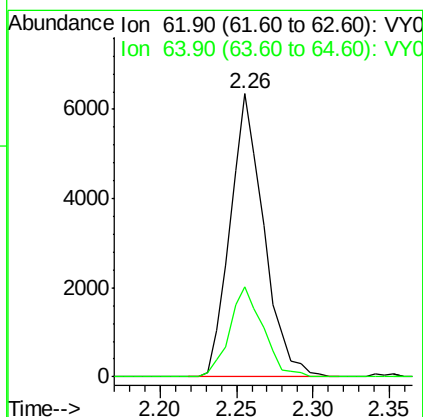
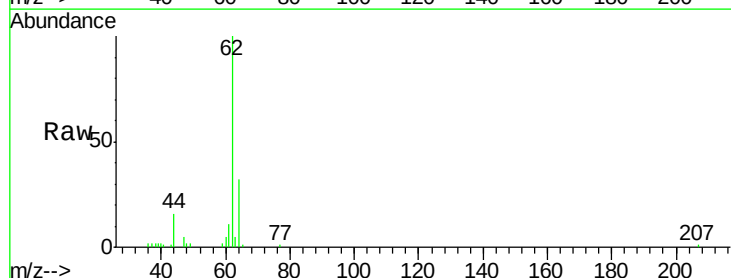
Acq: 04 Mar 2020 15:06

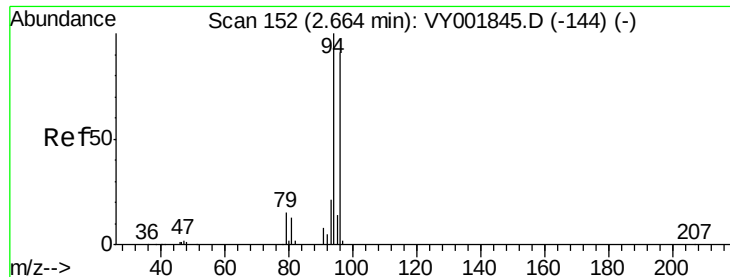
Tgt Ion: 62 Resp: 9694

Ion Ratio Lower Upper

62 100

64 31.6 25.1 37.7





#5

Bromomethane

Concen: 5.100 ug/l

RT: 2.66 min Scan# 151

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 94 Resp: 7612

Ion Ratio Lower Upper

94 100

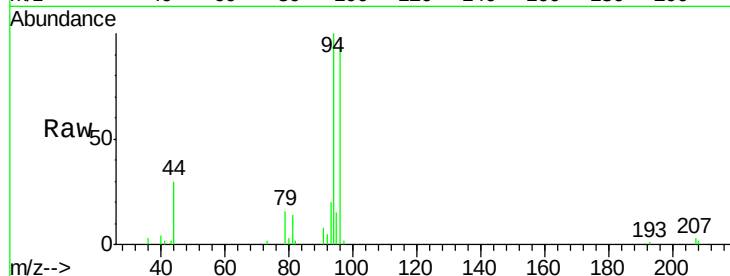
96 94.5 73.2 109.8

Manual Integrations

APPROVED

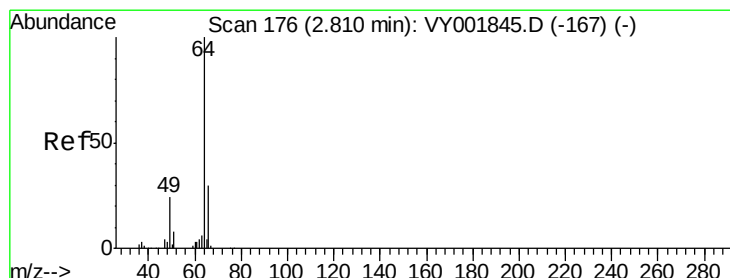
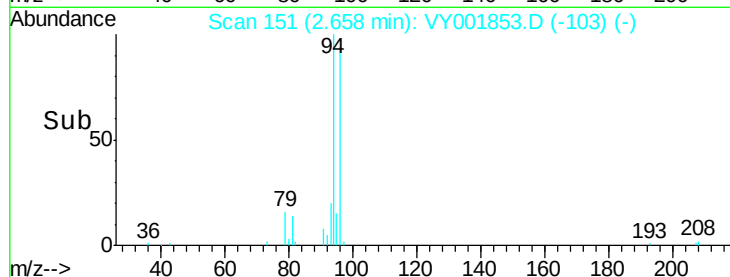
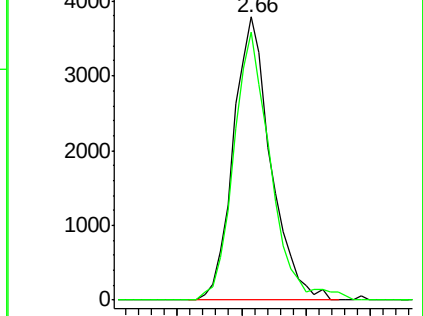
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Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 4.131 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.01 min

Lab File: VY001853.D

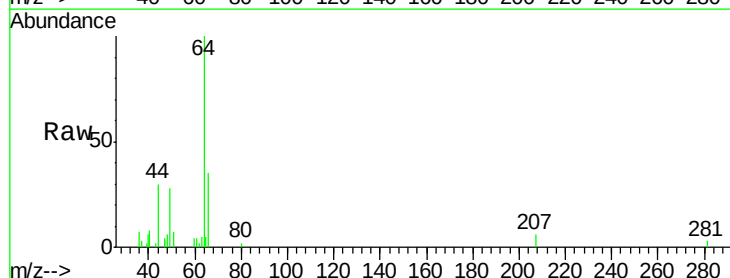
Acq: 04 Mar 2020 15:06

Tgt Ion: 64 Resp: 5838

Ion Ratio Lower Upper

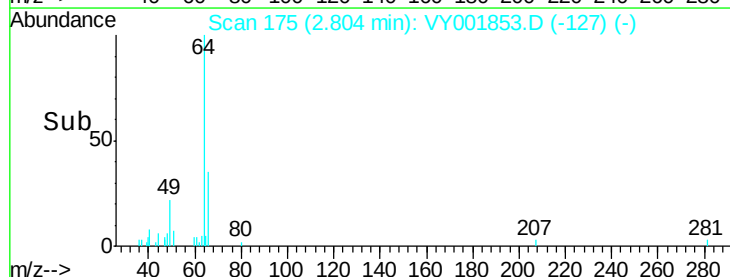
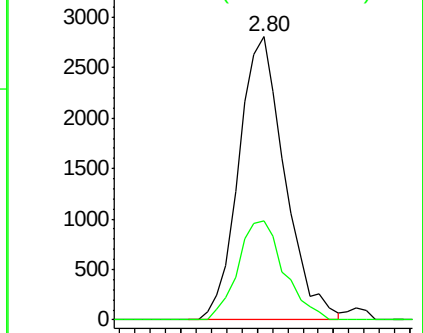
64 100

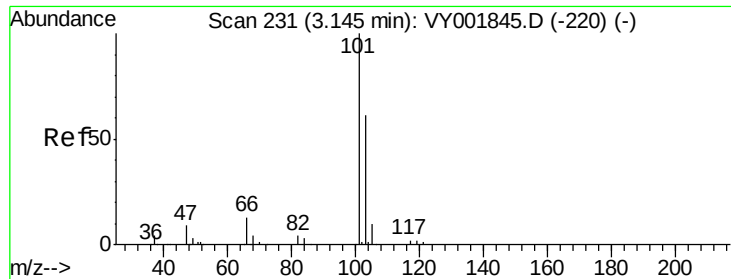
66 35.0 23.8 35.8



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0





#7

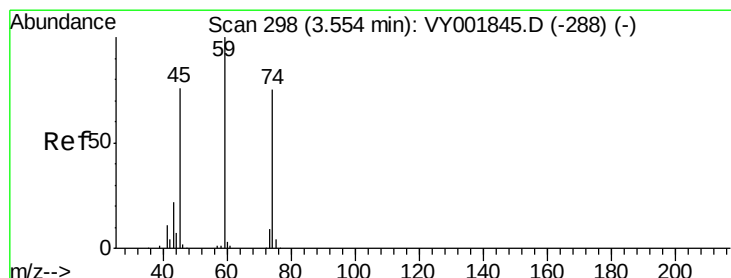
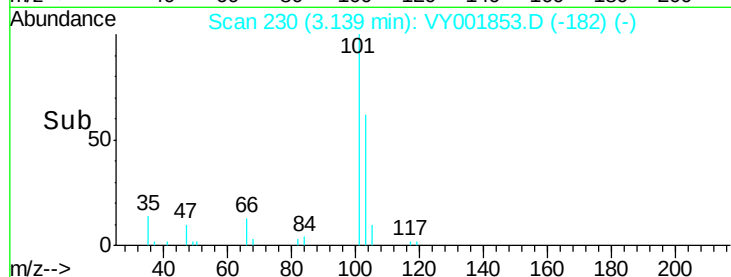
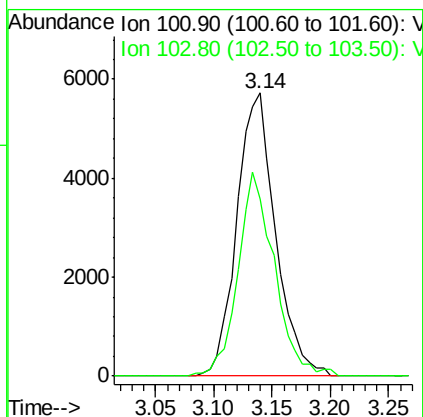
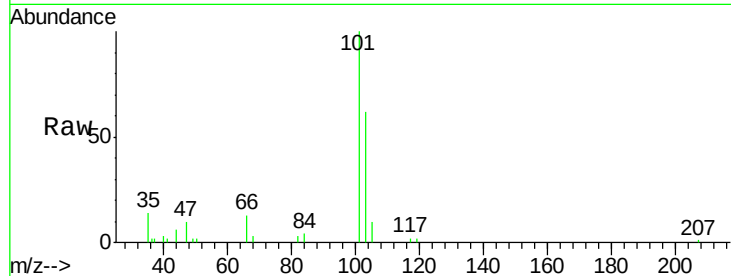
Trichlorofluoromethane
Concen: 4.346 ug/l
RT: 3.14 min Scan# 230
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	49.1	73.7

Manual Integrations
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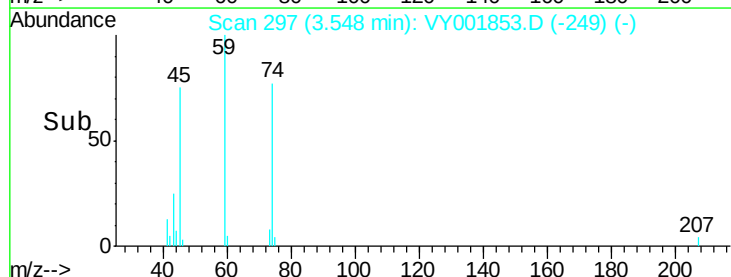
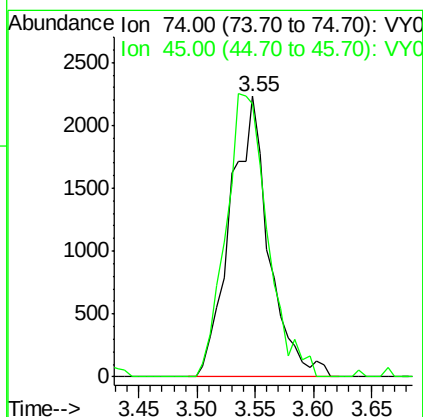
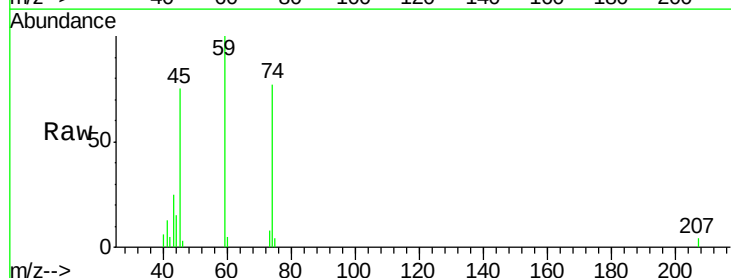
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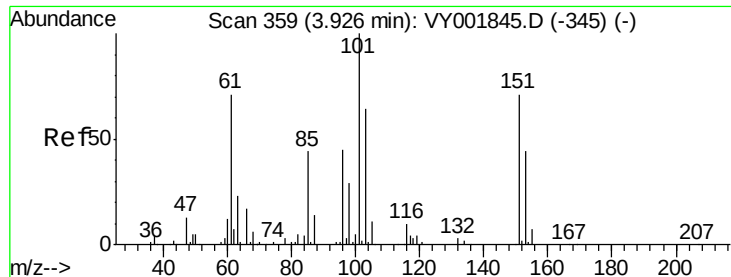


#8

Diethyl Ether
Concen: 4.273 ug/l
RT: 3.55 min Scan# 297
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.1	50.5	151.5





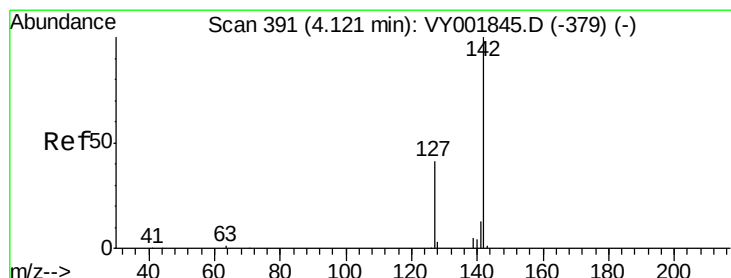
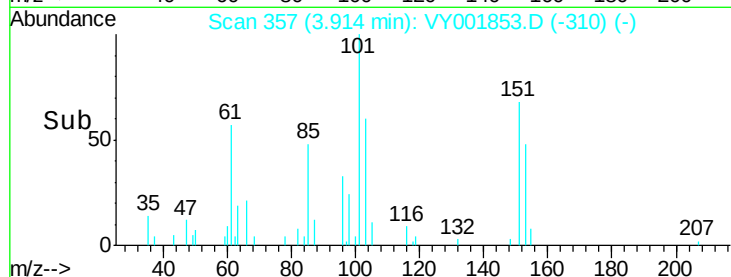
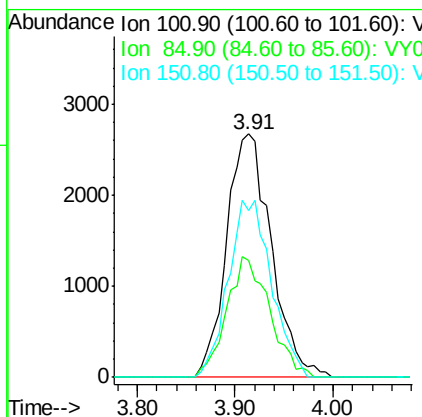
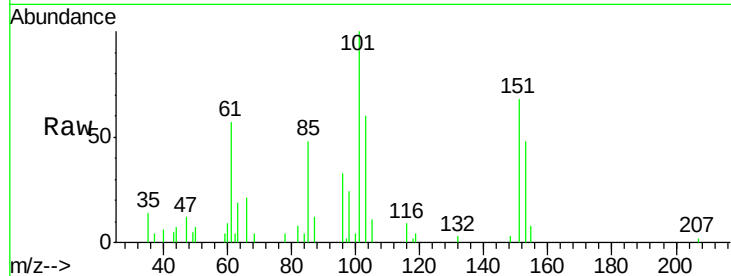
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 4.306 ug/l
 RT: 3.91 min Scan# 357
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
101	100		
85	47.7	35.3	52.9
151	70.4	57.0	85.4

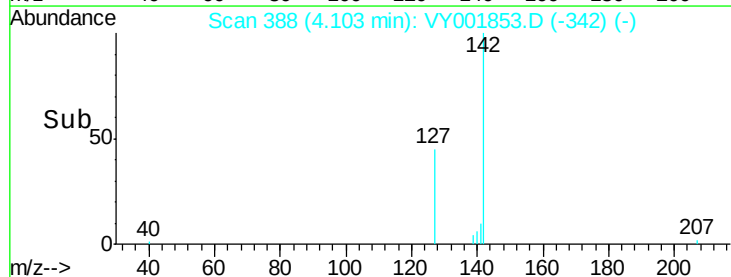
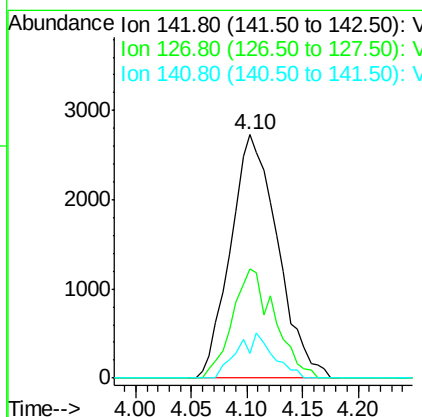
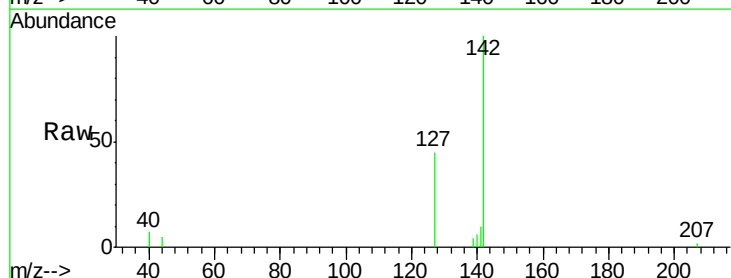
Manual Integrations
 APPROVED

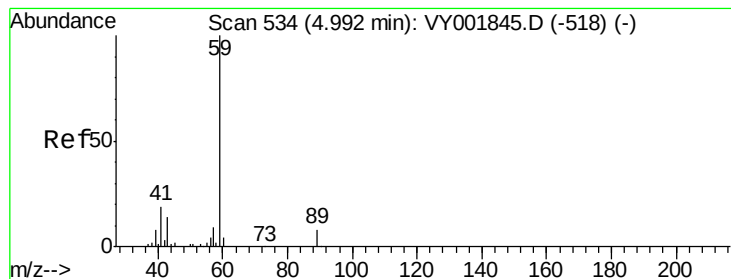
MMDadoda
 3/5/2020 1:37:25 PM



#10
 Methyl Iodide
 Concen: 3.532 ug/l
 RT: 4.10 min Scan# 388
 Delta R.T. -0.02 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.3	32.7	49.1
141	14.0	11.0	16.6





#11

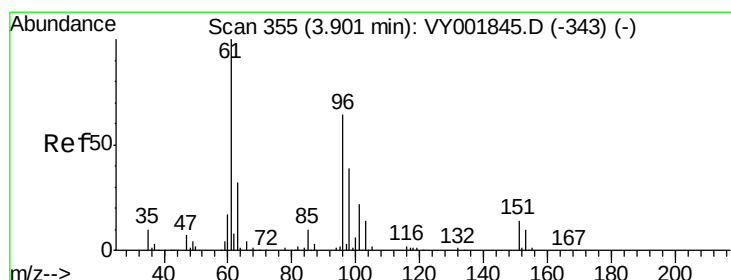
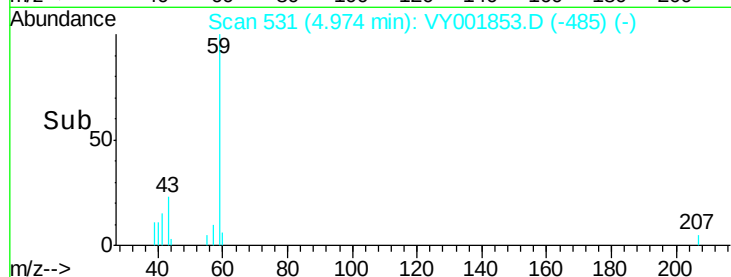
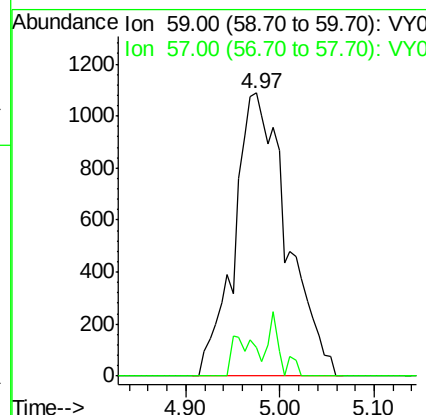
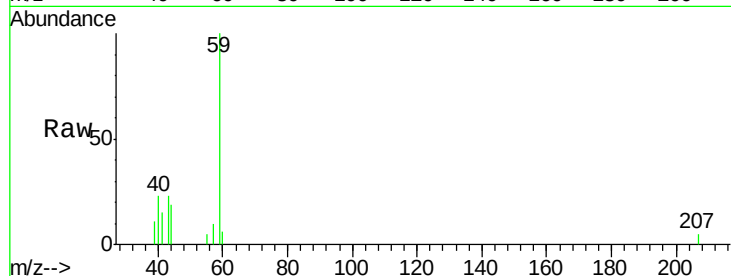
Tert butyl alcohol
Concen: 18.278 ug/l
RT: 4.97 min Scan# 531
Delta R.T. -0.02 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 59 Resp: 4233
Ion Ratio Lower Upper
59 100
57 4.0 7.4 11.2#

Manual Integrations
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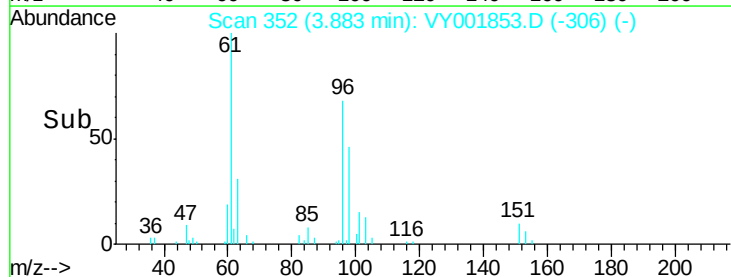
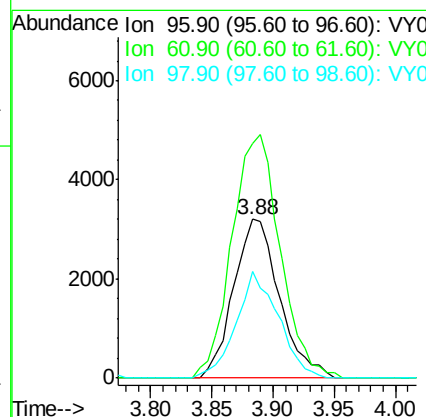
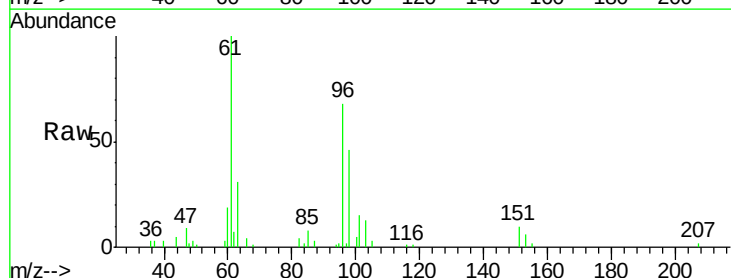
MMDadoda
3/5/2020 1:37:25 PM

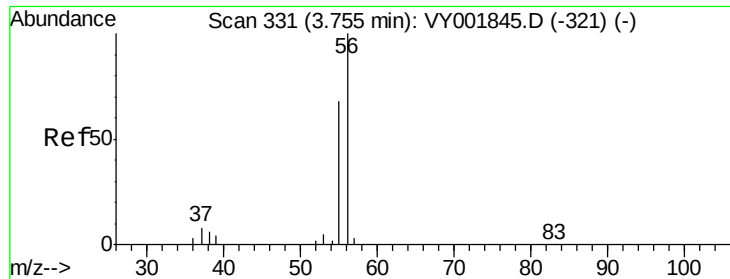


#12

1,1-Dichloroethene
Concen: 4.226 ug/l
RT: 3.88 min Scan# 352
Delta R.T. -0.02 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion: 96 Resp: 8349
Ion Ratio Lower Upper
96 100
61 147.1 124.8 187.2
98 67.0 49.2 73.8





#13

Acrolein

Concen: 21.133 ug/l

RT: 3.75 min Scan# 330

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 56 Resp: 5634

Ion Ratio Lower Upper

56 100

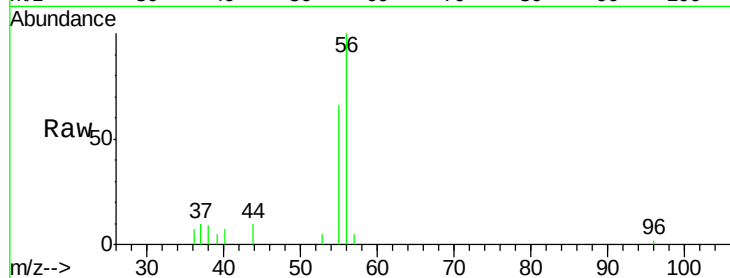
55 75.8 54.0 81.0

Manual Integrations

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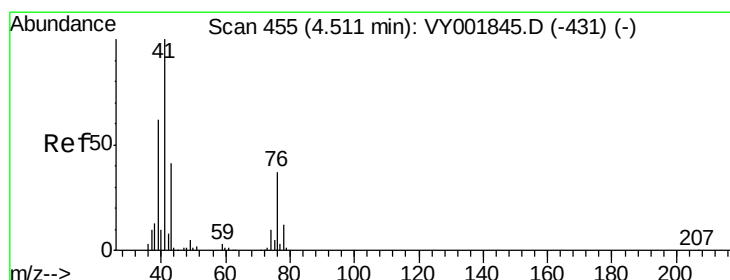
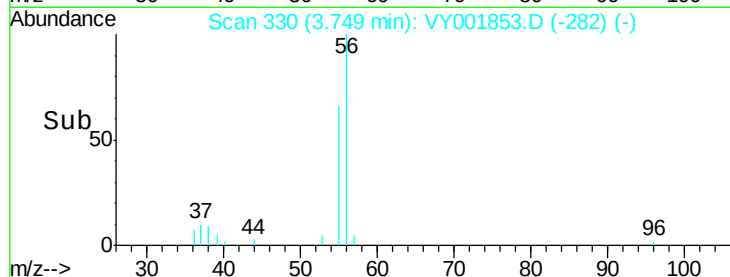
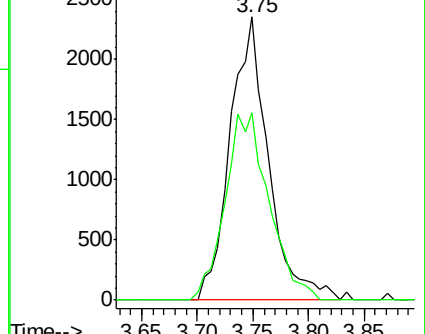
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 4.345 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.02 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

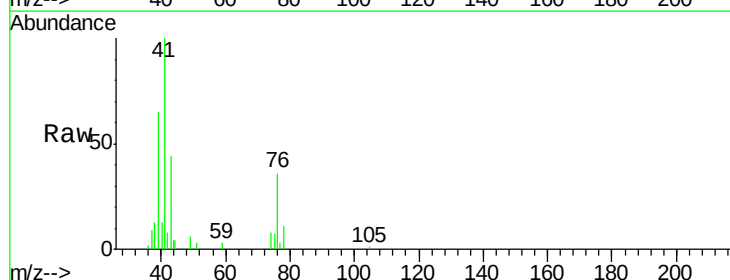
Tgt Ion: 41 Resp: 15218

Ion Ratio Lower Upper

41 100

39 60.3 49.0 73.6

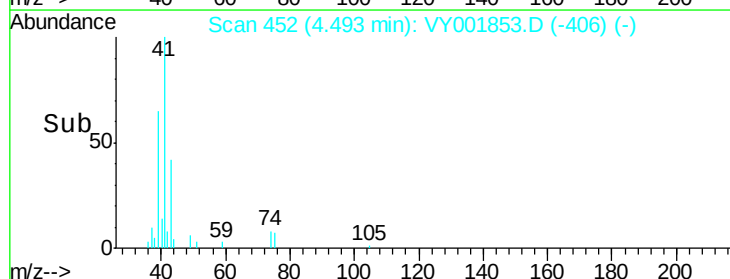
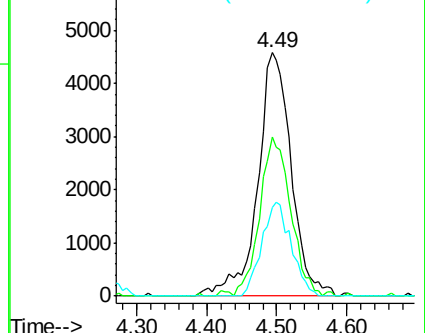
76 33.9 28.9 43.3

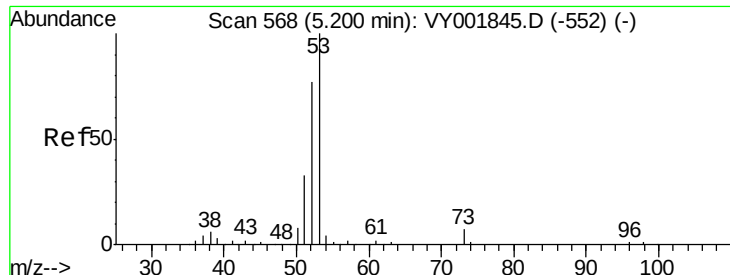


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 20.986 ug/l

RT: 5.19 min Scan# 567

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

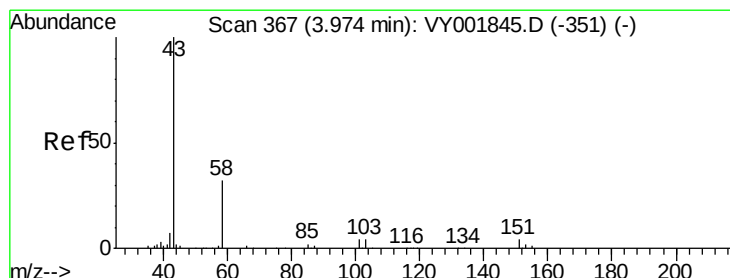
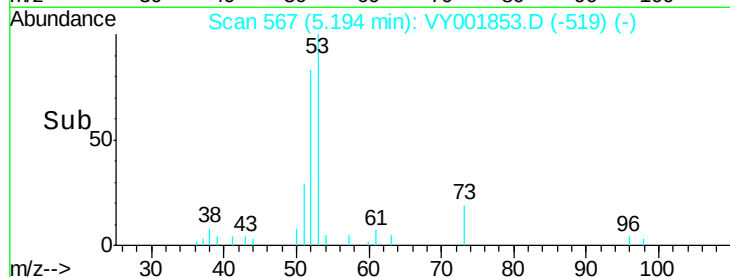
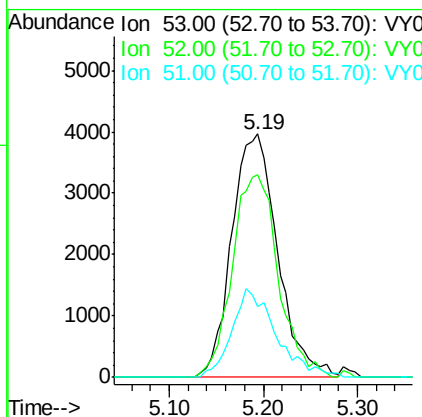
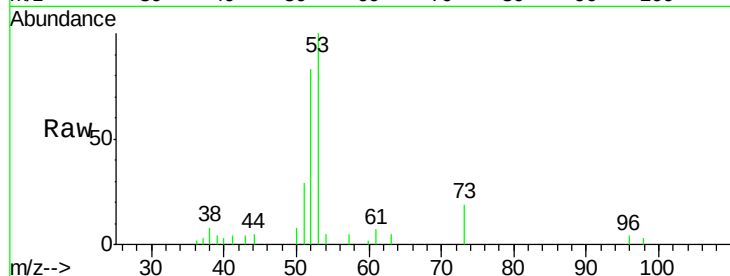
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	53	Resp:	13484
Ion	Ratio	Lower	Upper
53	100		
52	83.4	65.1	97.7
51	35.0	27.5	41.3

Manual Integrations
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#16

Acetone

Concen: 20.039 ug/l

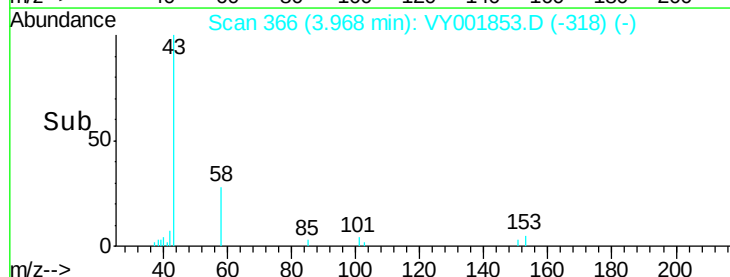
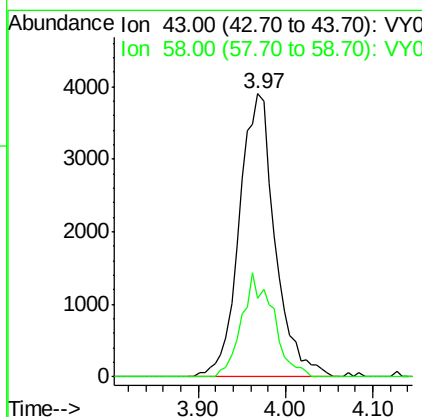
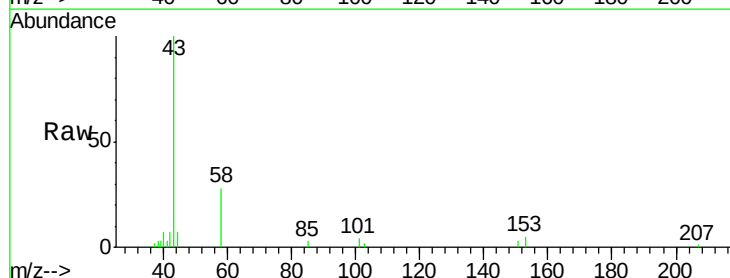
RT: 3.97 min Scan# 366

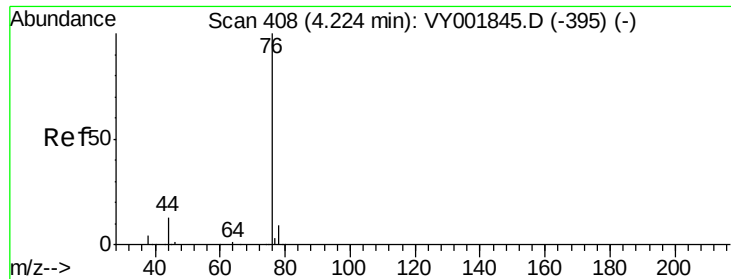
Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion:	43	Resp:	11073
Ion	Ratio	Lower	Upper
43	100		
58	27.6	25.9	38.9





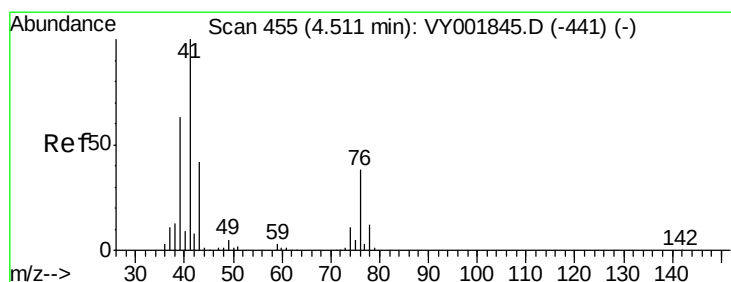
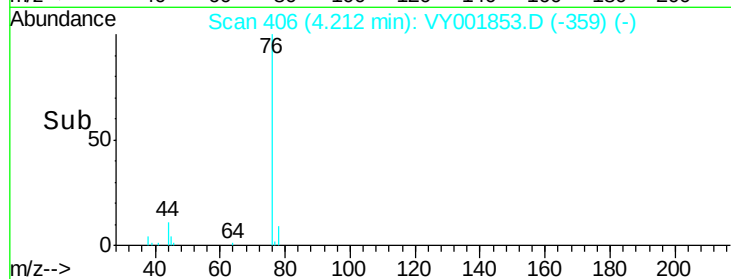
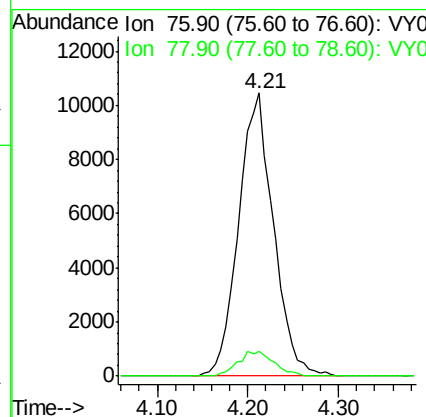
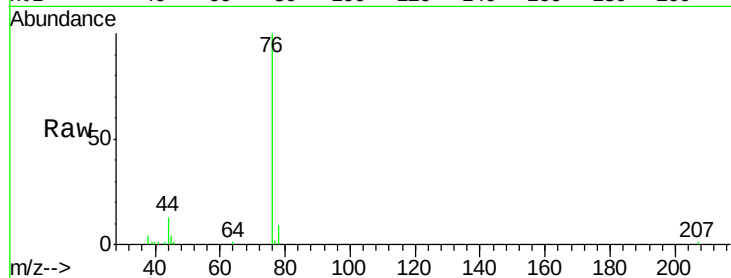
#17
Carbon Disulfide
Concen: 4.199 ug/l
RT: 4.21 min Scan# 406
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 76 Resp: 27887
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.2

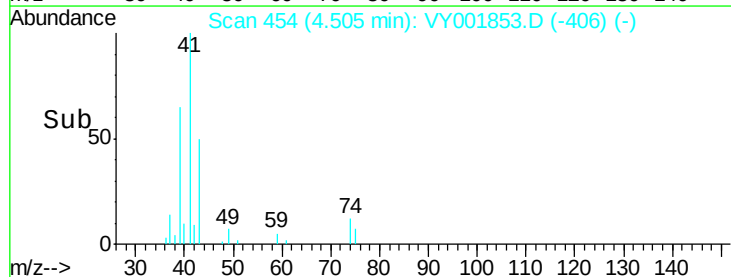
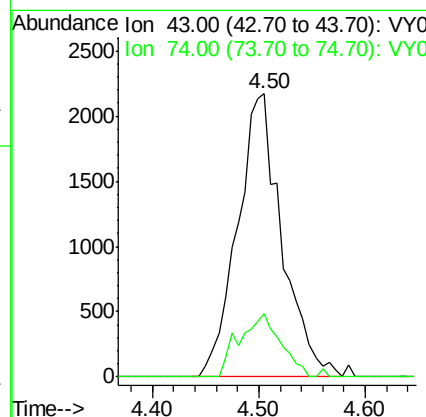
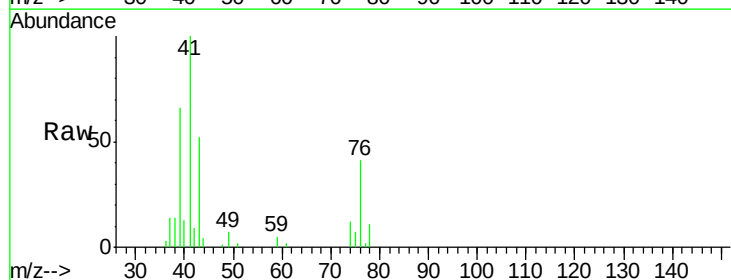
Manual Integrations
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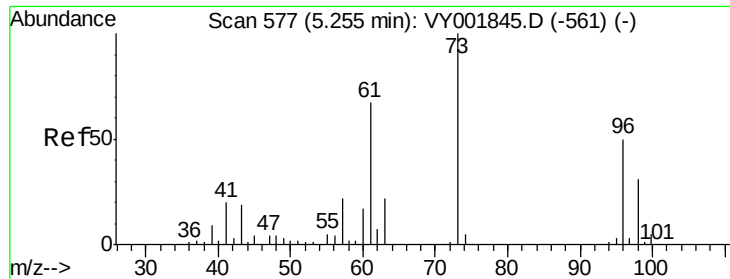
MMDadoda
3/5/2020 1:37:25 PM



#18
Methyl Acetate
Concen: 4.466 ug/l
RT: 4.50 min Scan# 454
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion: 43 Resp: 6341
Ion Ratio Lower Upper
43 100
74 20.9 19.0 28.6





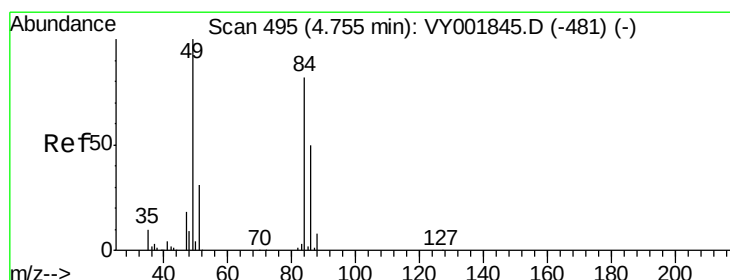
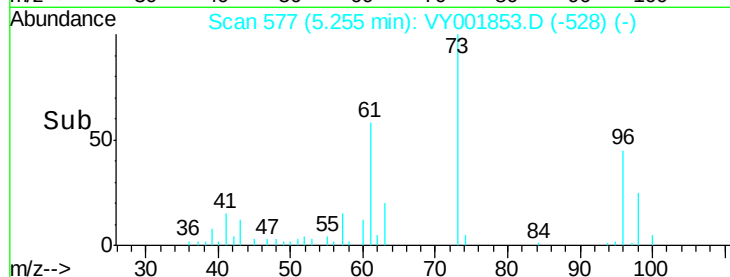
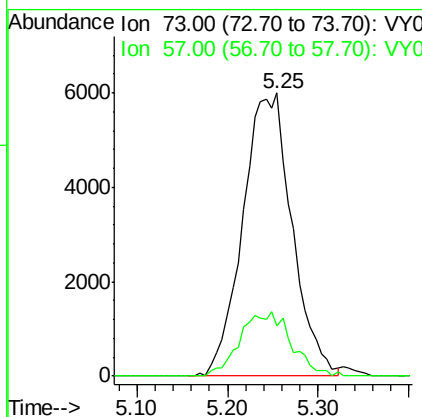
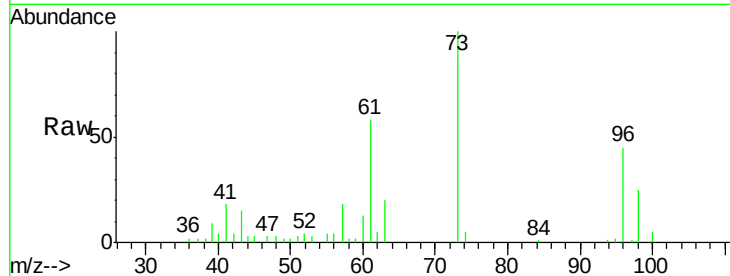
#19
Methyl tert-butyl Ether
Concen: 4.207 ug/l
RT: 5.25 min Scan# 577
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 73 Resp: 22523
Ion Ratio Lower Upper
73 100
57 17.8 17.4 26.2

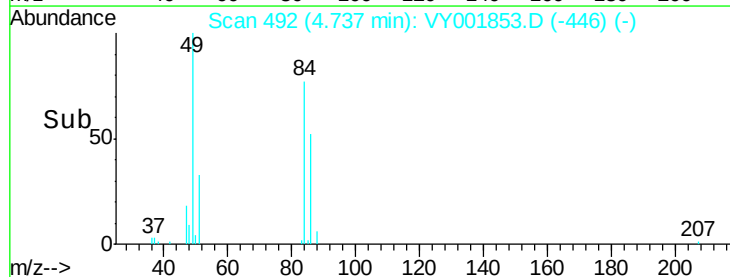
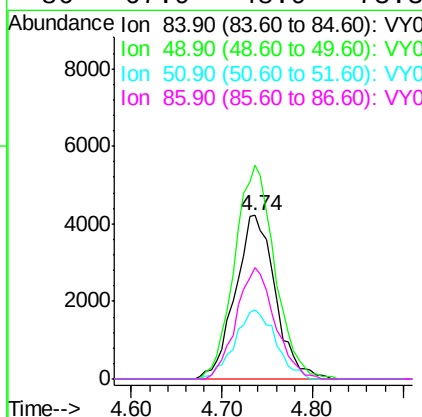
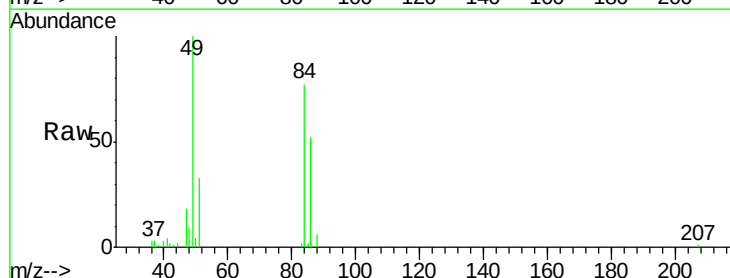
Manual Integrations
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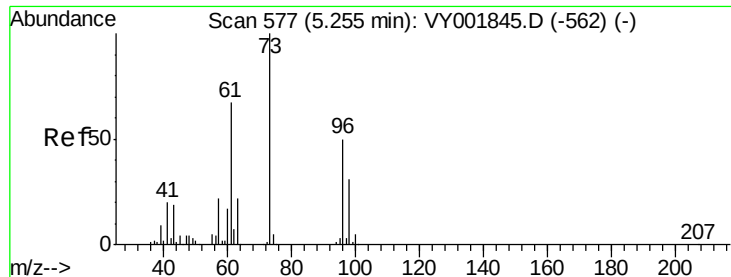
MMDadoda
3/5/2020 1:37:25 PM



#20
Methylene Chloride
Concen: 5.453 ug/l
RT: 4.74 min Scan# 492
Delta R.T. -0.02 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion: 84 Resp: 12914
Ion Ratio Lower Upper
84 100
49 130.7 98.2 147.2
51 42.7 30.2 45.2
86 67.9 48.9 73.3





#21

trans-1,2-Dichloroethene

Concen: 4.264 ug/l

RT: 5.24 min Scan# 575

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

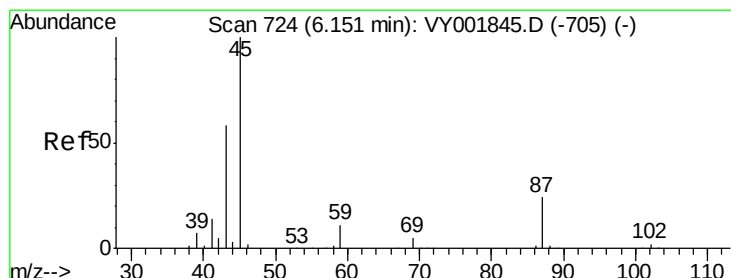
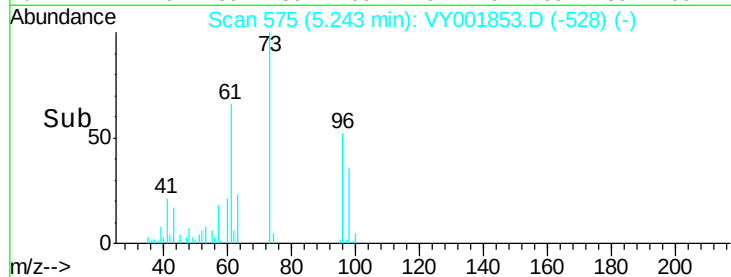
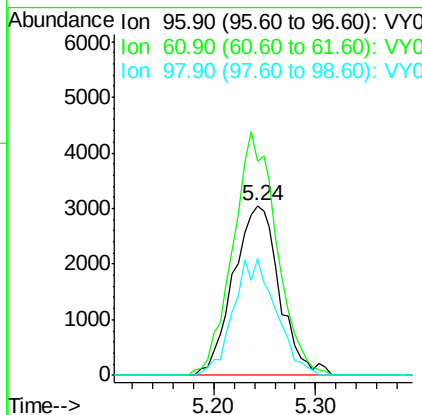
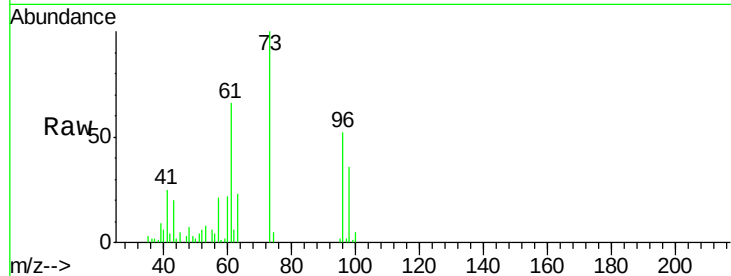
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	96	Resp:	9562
Ion	Ratio	Lower	Upper
96	100		
61	125.9	107.7	161.5
98	69.1	49.3	73.9

Manual Integrations
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3/5/2020 1:37:25 PM



#22

Diisopropyl ether

Concen: 4.281 ug/l

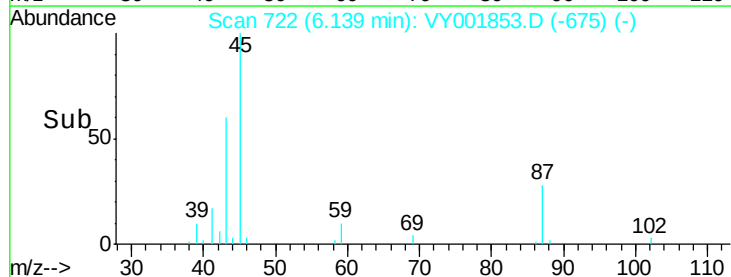
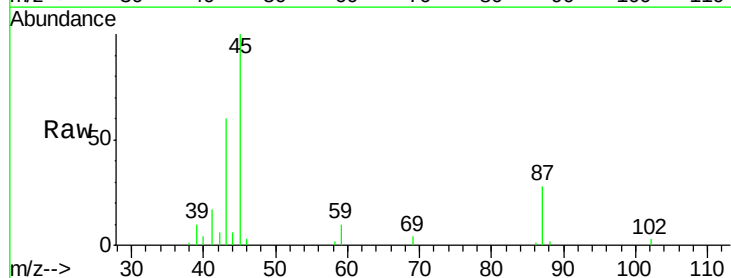
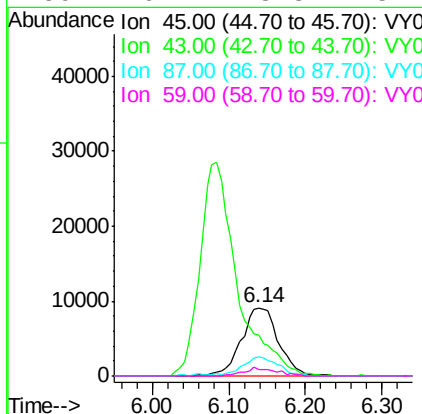
RT: 6.14 min Scan# 722

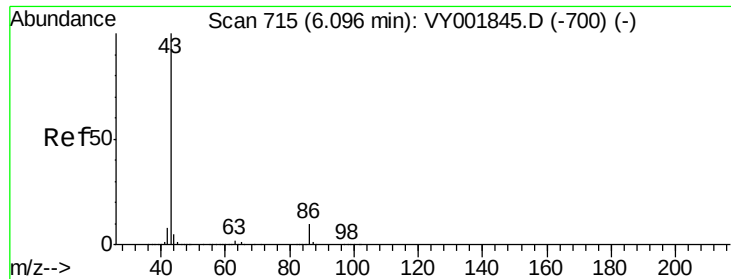
Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion:	45	Resp:	30735
Ion	Ratio	Lower	Upper
45	100		
43	58.8	47.2	70.8
87	28.0	19.8	29.8
59	10.1	8.8	13.2





#23

Vinyl Acetate

Concen: 20.619 ug/l

RT: 6.08 min Scan# 713

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 43 Resp: 97052

Ion Ratio Lower Upper

43 100

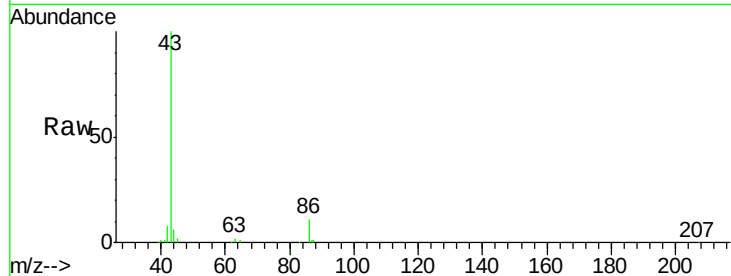
86 10.7 7.8 11.8

Manual Integrations

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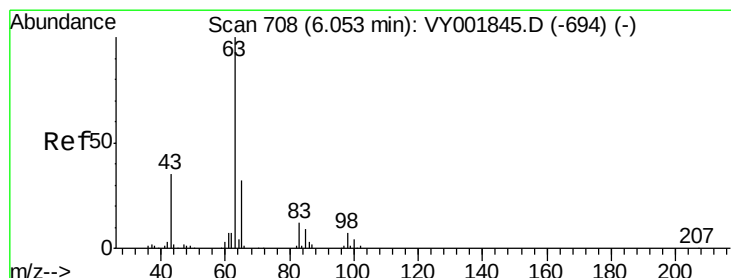
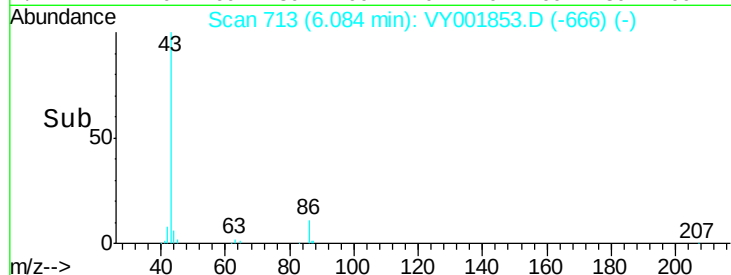
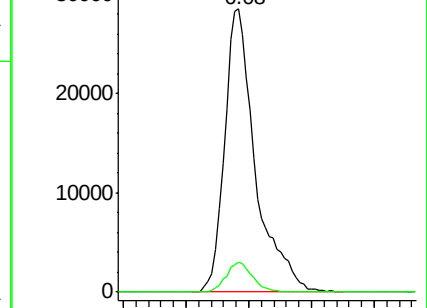
MMDadoda

3/5/2020 1:37:25 PM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 4.250 ug/l

RT: 6.04 min Scan# 706

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

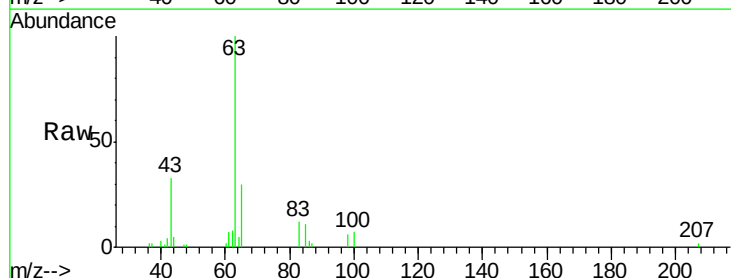
Tgt Ion: 63 Resp: 16525

Ion Ratio Lower Upper

63 100

98 6.2 3.4 10.2

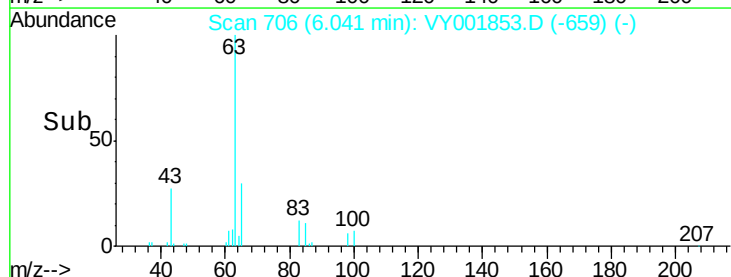
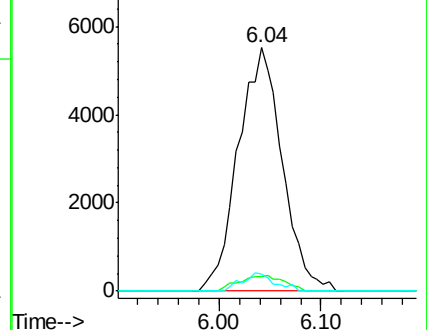
100 7.1 2.0 6.0#

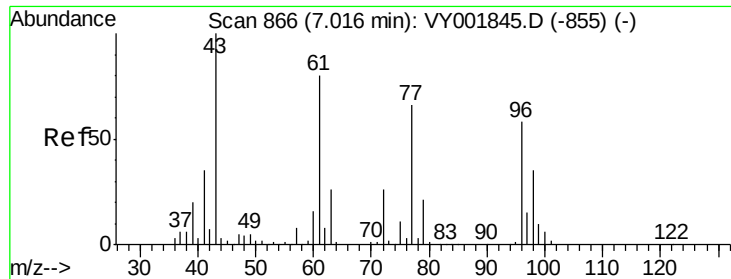


Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0





#25

2-Butanone

Concen: 20.508 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 43 Resp: 17233

Ion Ratio Lower Upper

43 100

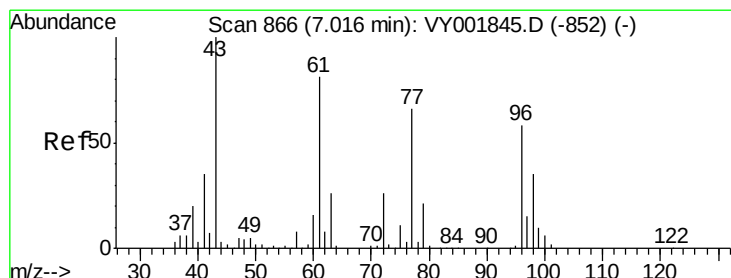
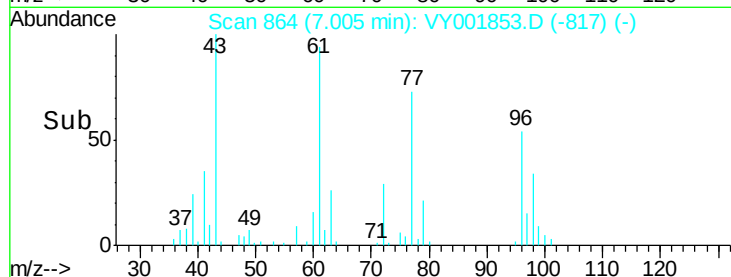
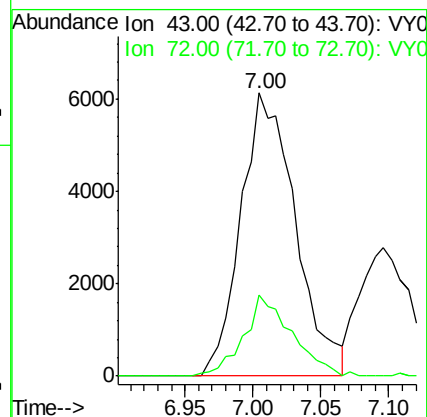
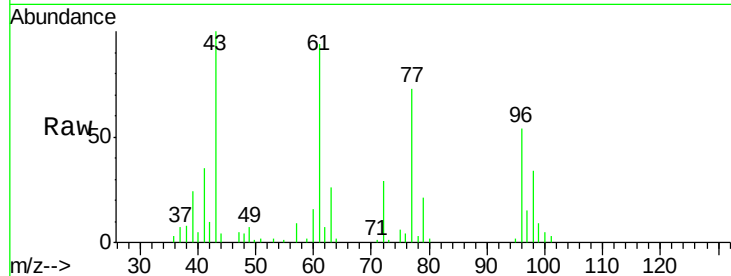
72 28.5 20.9 31.3

Manual Integrations

APPROVED

MMDadoda

3/5/2020 1:37:25 PM



#26

2,2-Dichloropropane

Concen: 4.159 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.01 min

Lab File: VY001853.D

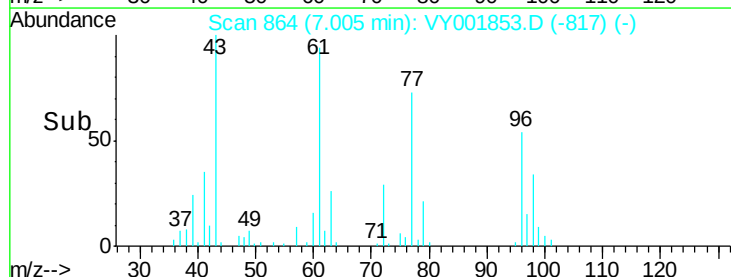
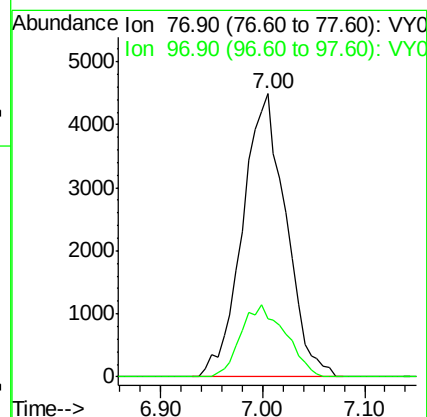
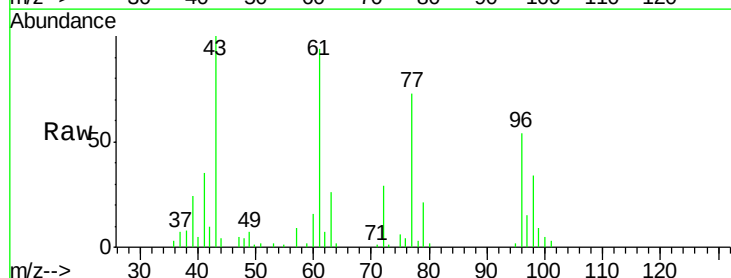
Acq: 04 Mar 2020 15:06

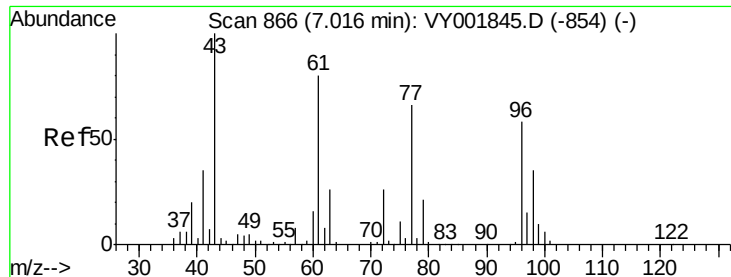
Tgt Ion: 77 Resp: 13271

Ion Ratio Lower Upper

77 100

97 26.1 11.9 35.7





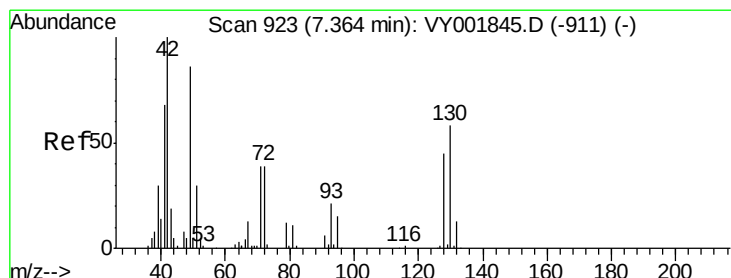
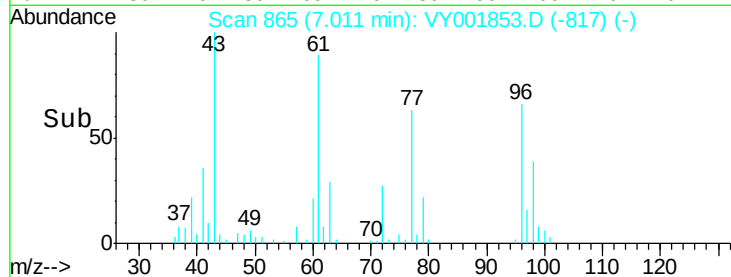
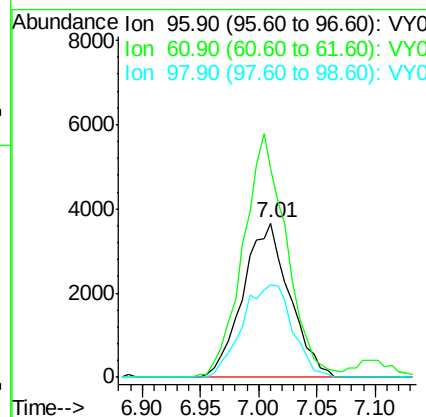
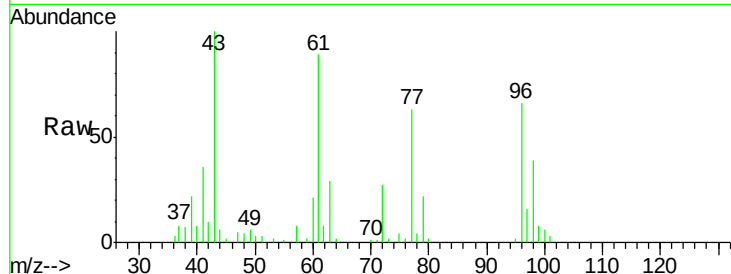
#27
 cis-1,2-Dichloroethene
 Concen: 4.186 ug/l
 RT: 7.01 min Scan# 865
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	288.2
98	64.6	0.0	129.0

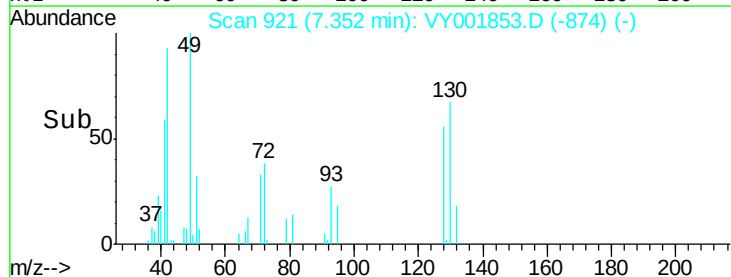
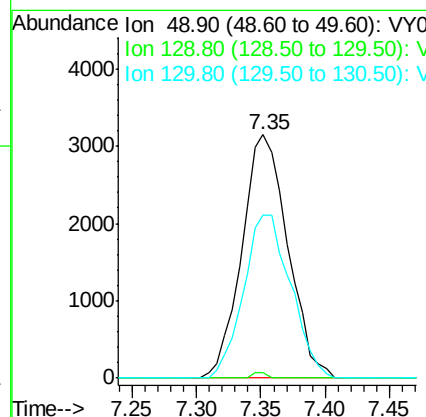
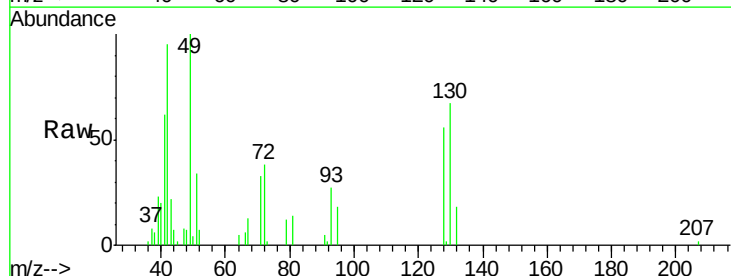
Manual Integrations
 APPROVED

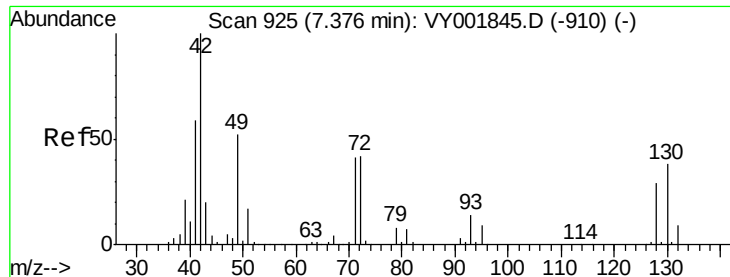
MMDadoda
 3/5/2020 1:37:25 PM



#28
 Bromochloromethane
 Concen: 4.435 ug/l
 RT: 7.35 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	3.8
130	68.6	54.4	81.6





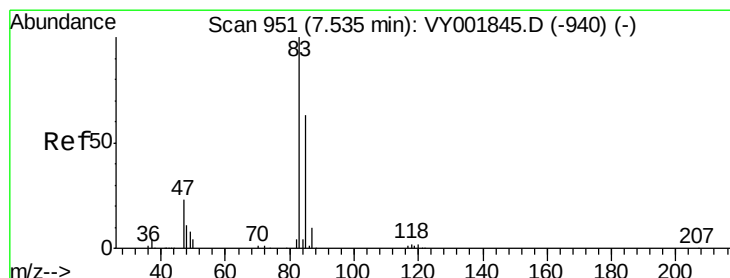
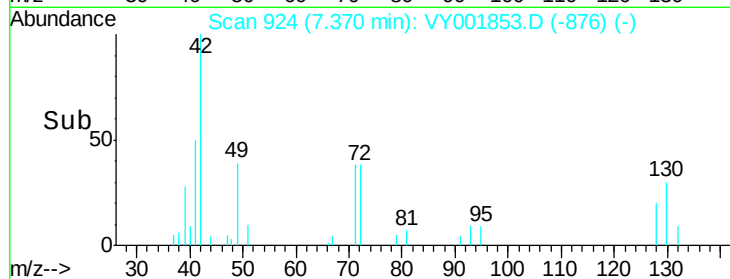
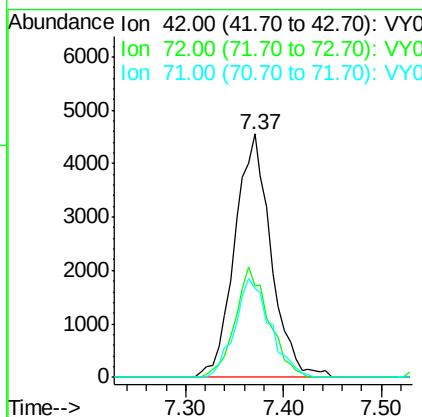
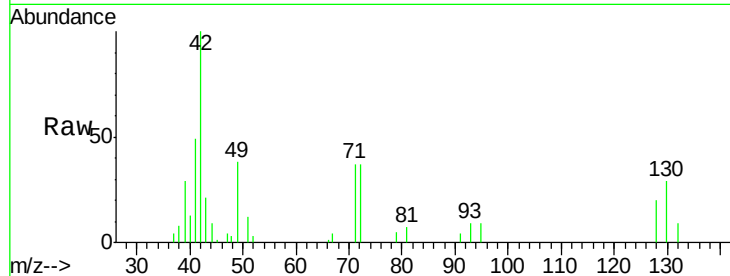
#29
Tetrahydrofuran
Concen: 21.071 ug/l
RT: 7.37 min Scan# 924
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.5	50.3
71	39.5	31.3	46.9

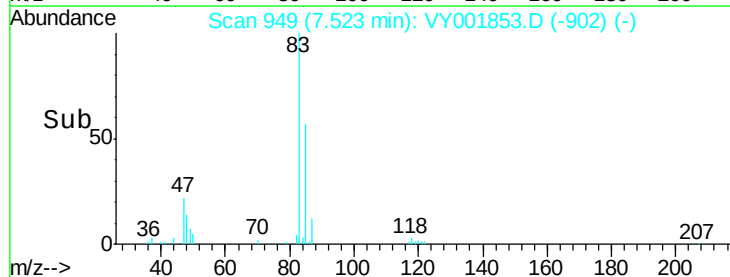
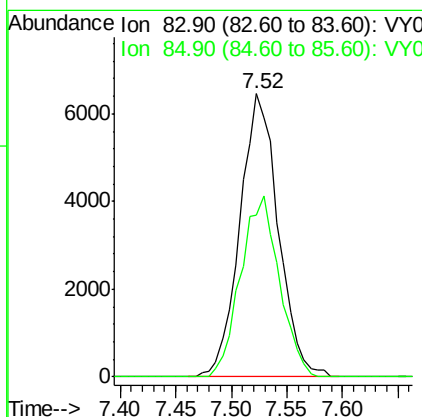
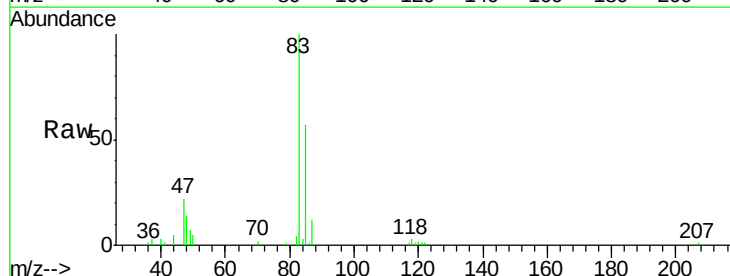
Manual Integrations
APPROVED

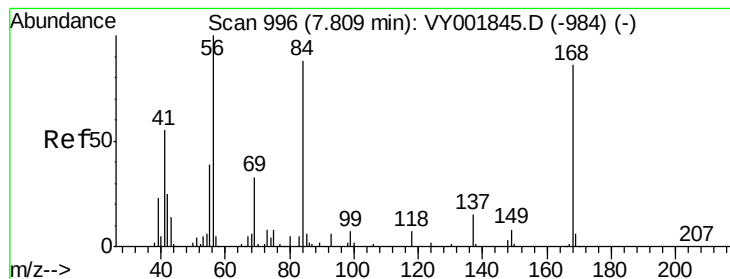
MMDadoda
3/5/2020 1:37:25 PM



#30
Chloroform
Concen: 4.235 ug/l
RT: 7.52 min Scan# 949
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.9	50.7	76.1





#31

Cyclohexane

Concen: 5.048 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 56 Resp: 21045

Ion Ratio Lower Upper

56 100

69 54.4 26.7 40.1#

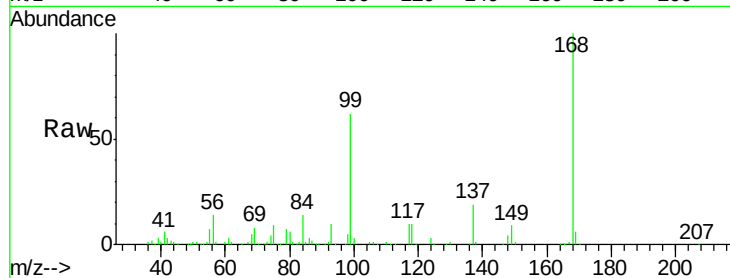
84 98.1 70.4 105.6

Manual Integrations

APPROVED

MMDadoda

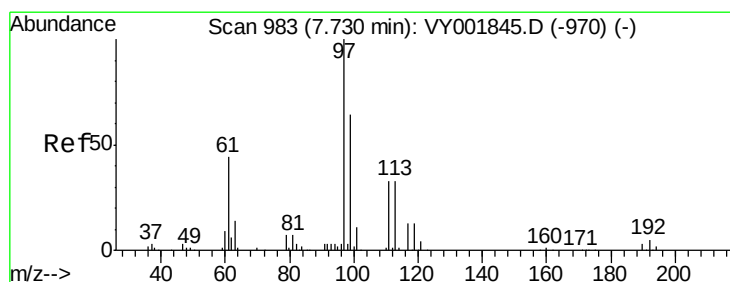
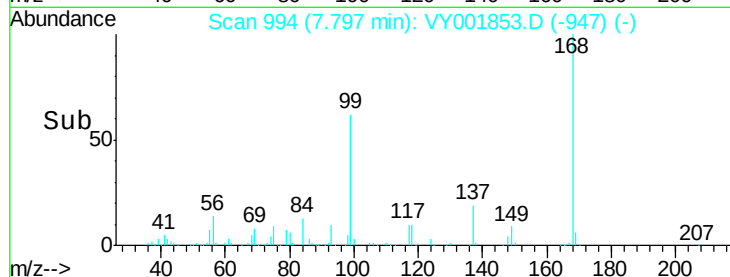
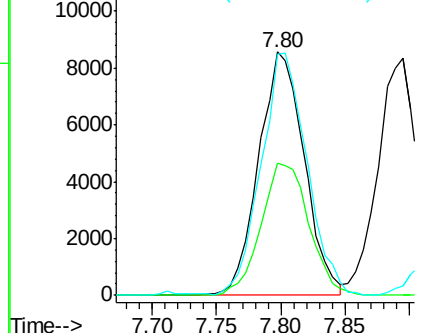
3/5/2020 1:37:25 PM



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: 4.123 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

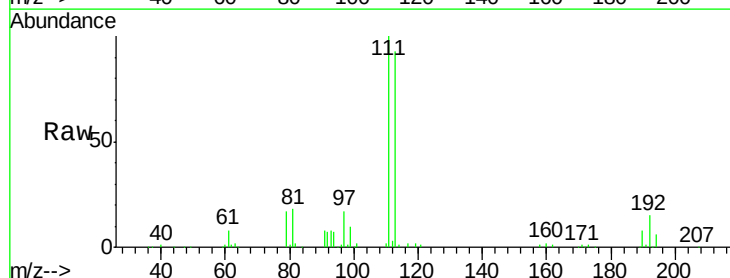
Tgt Ion: 97 Resp: 12695

Ion Ratio Lower Upper

97 100

99 64.1 52.0 78.0

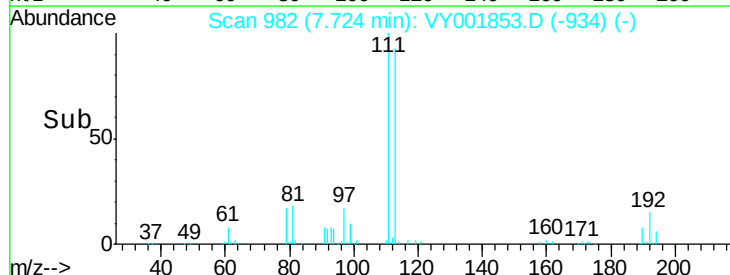
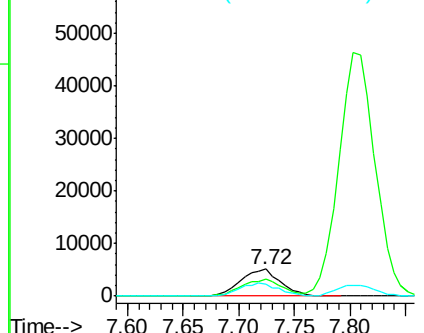
61 48.0 35.0 52.4

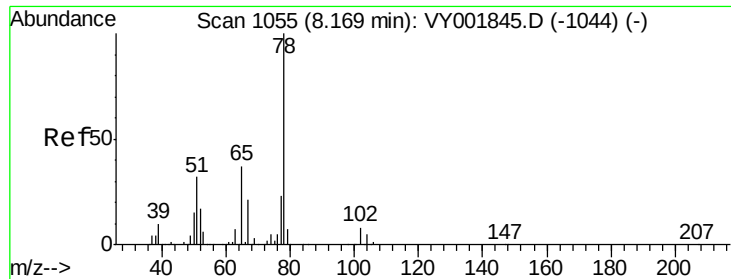


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0





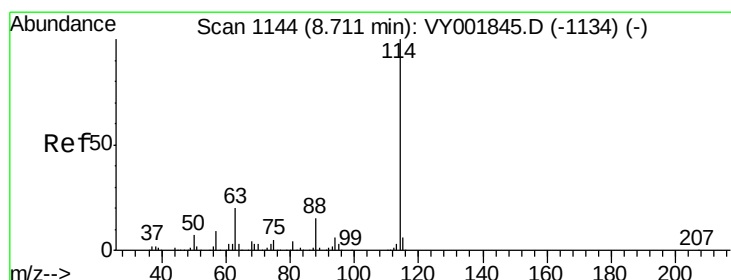
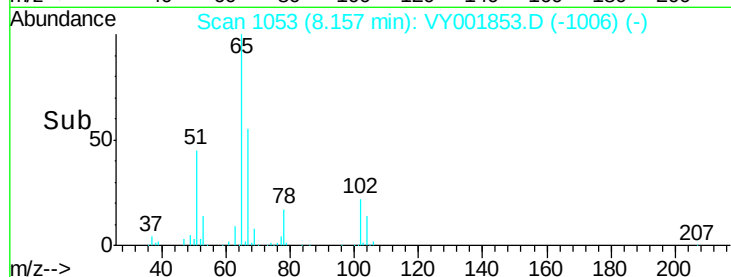
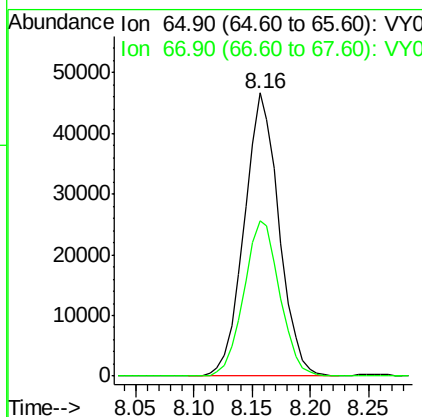
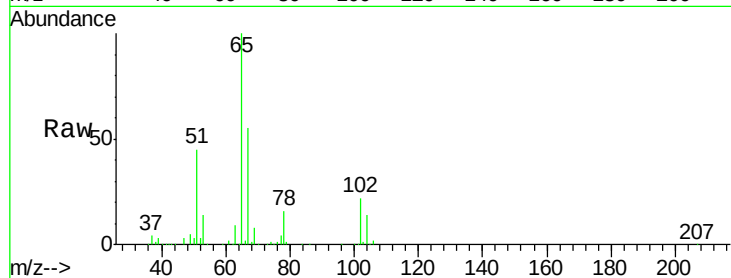
#33
 1,2-Dichloroethane-d4
 Concen: 51.076 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
65	100		
67	56.5	0.0	110.8

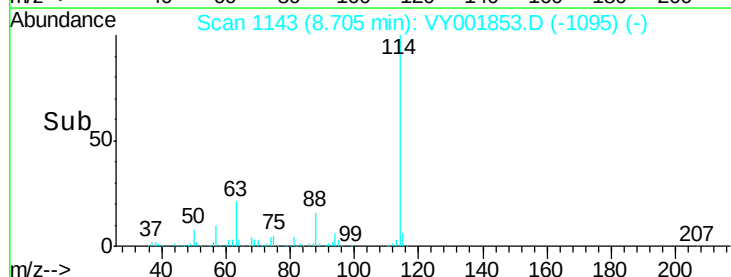
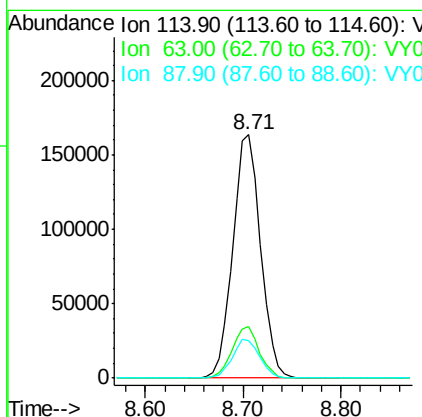
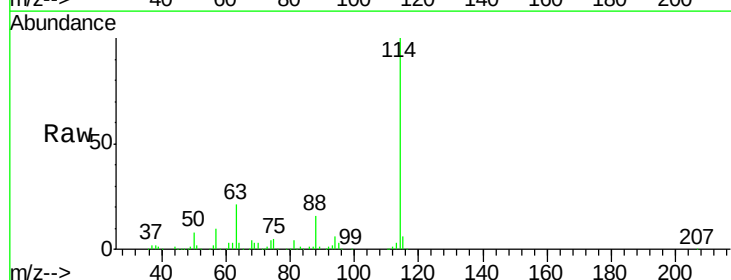
Manual Integrations
 APPROVED

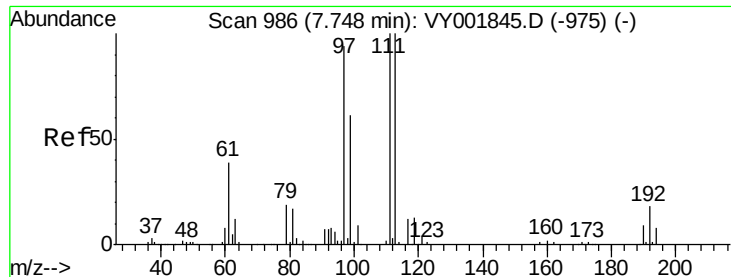
MMDadoda
 3/5/2020 1:37:25 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	39.4
88	15.7	0.0	30.4





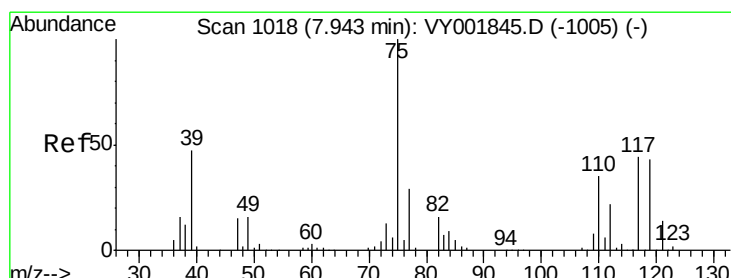
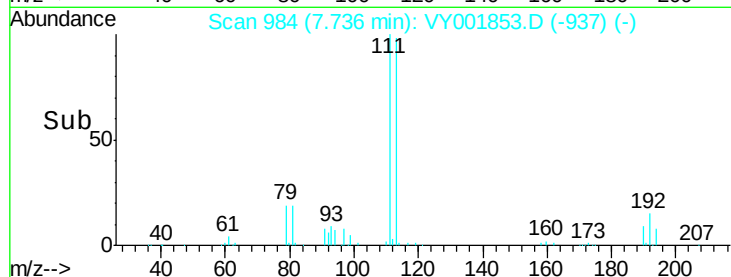
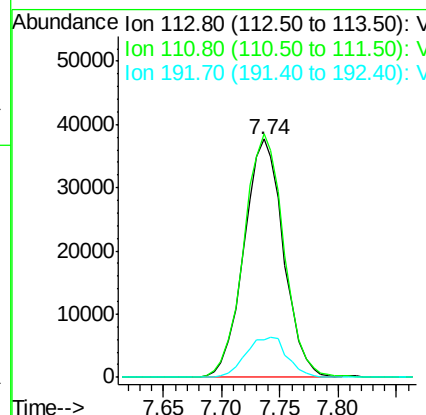
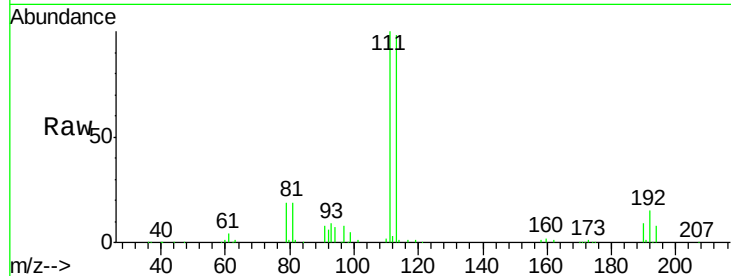
#35
Dibromofluoromethane
Concen: 50.763 ug/l
RT: 7.74 min Scan# 984
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.8
192	17.8	14.2	21.2

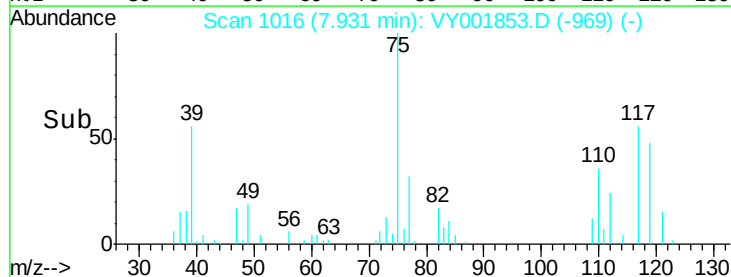
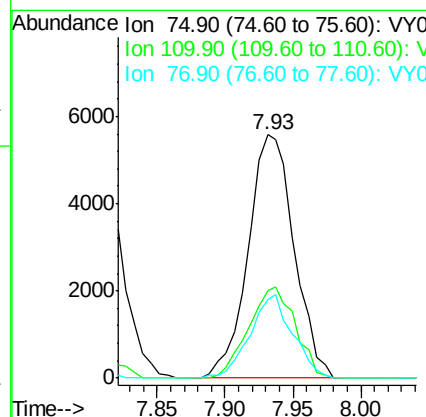
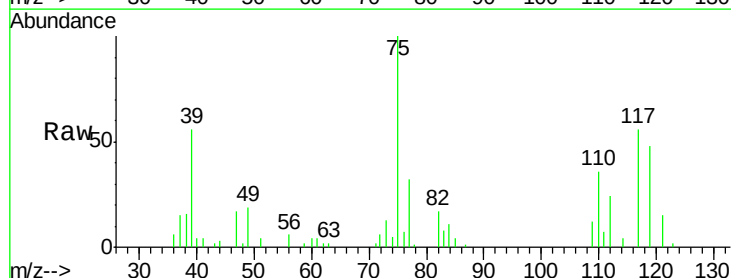
Manual Integrations
APPROVED

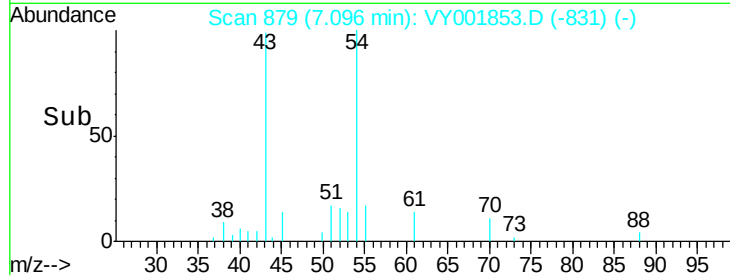
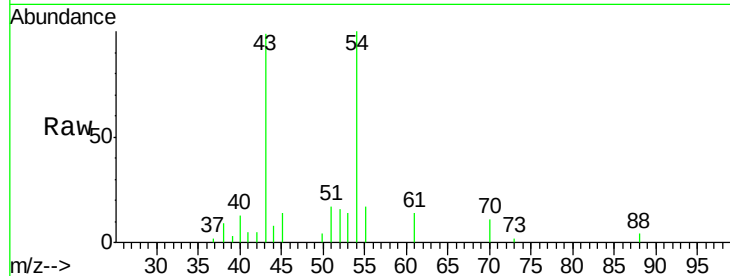
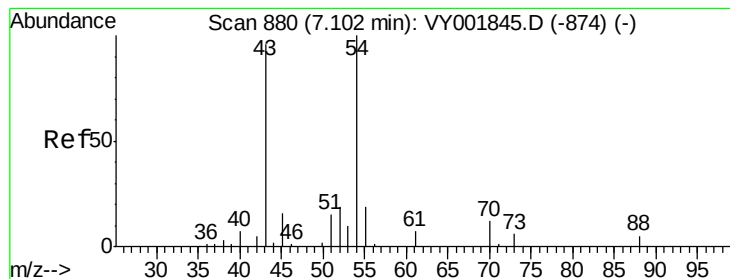
MMDadoda
3/5/2020 1:37:25 PM



#36
1,1-Dichloropropene
Concen: 4.265 ug/l
RT: 7.93 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.0	17.4	52.2
77	31.9	24.2	36.2





#37

Ethyl Acetate

Concen: 4.263 ug/l

RT: 7.10 min Scan# 879

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tot Ion:	43	Resp:	7655
Ion	Ratio	Lower	Upper
43	100		
61	12.4	11.1	16.7
70	10.9	8.2	12.4

Instrument :

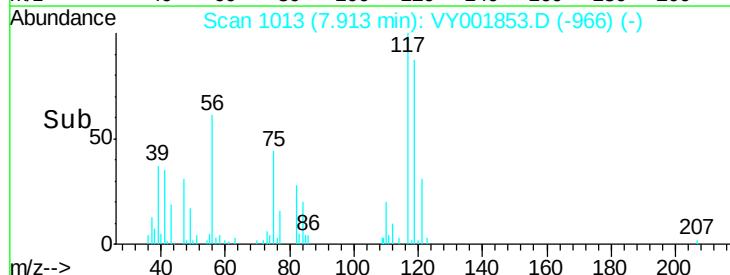
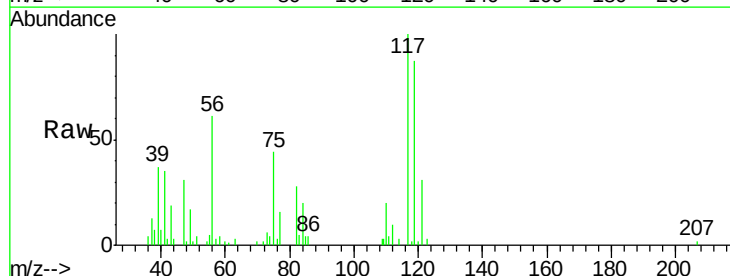
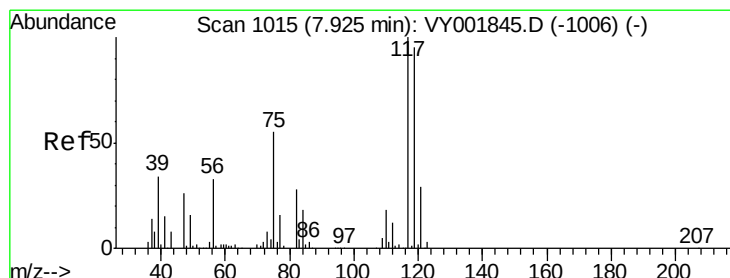
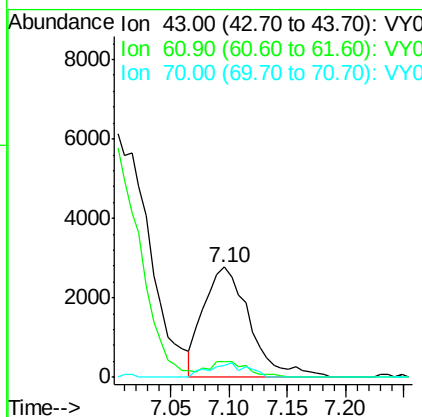
MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Manual Integrations
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3/5/2020 1:37:25 PM



#38

Carbon Tetrachloride

Concen: 4.191 ug/l

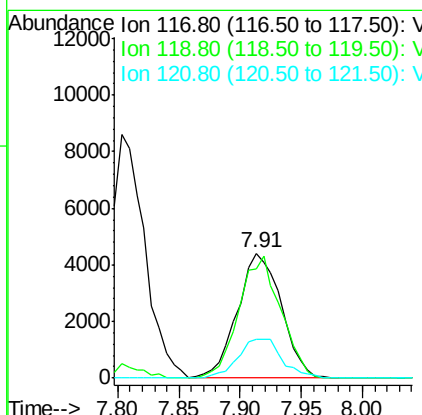
RT: 7.91 min Scan# 1013

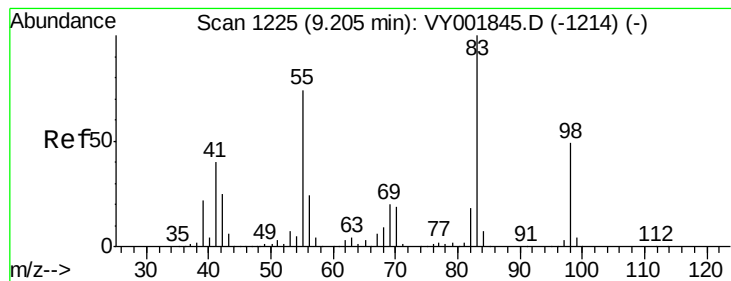
Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion:	117	Resp:	11062
Ion	Ratio	Lower	Upper
117	100		
119	86.9	76.3	114.5
121	30.7	23.5	35.3





#39

Methylvlcyclohexane

Concen: 4.230 ug/l

RT: 9.19 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

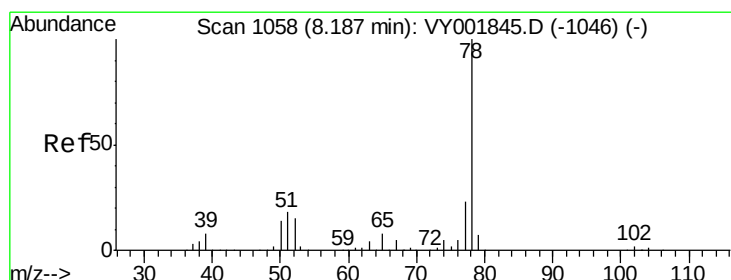
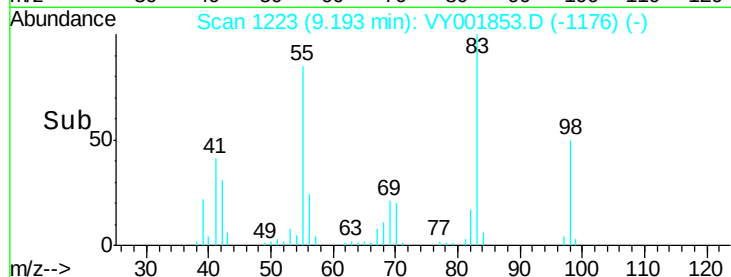
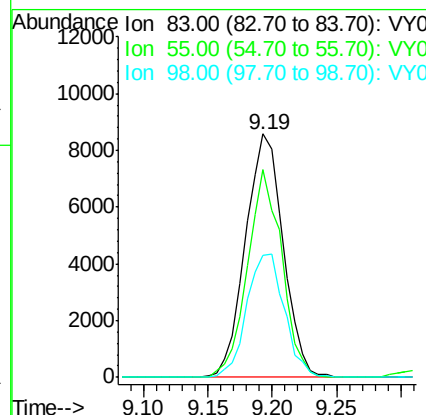
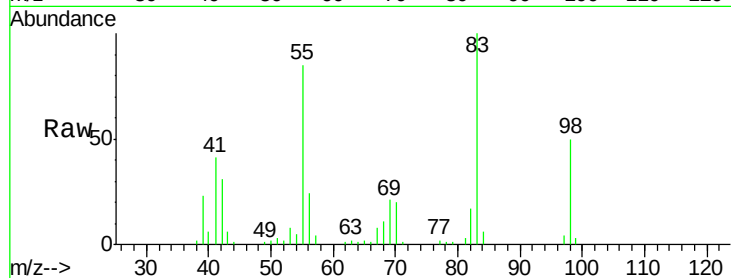
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	83	Resp:	17334
Ion	Ratio	Lower	Upper
83	100		
55	85.3	59.4	89.0
98	50.1	38.9	58.3

Manual Integrations
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3/5/2020 1:37:25 PM



#40

Benzene

Concen: 4.207 ug/l

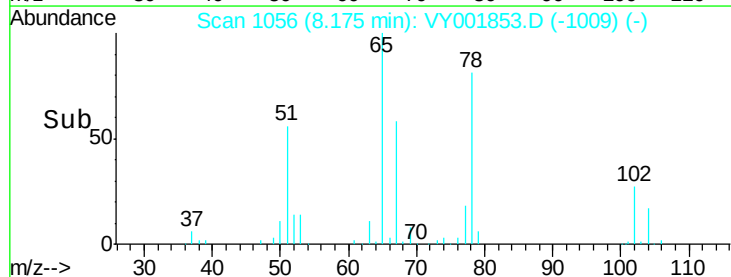
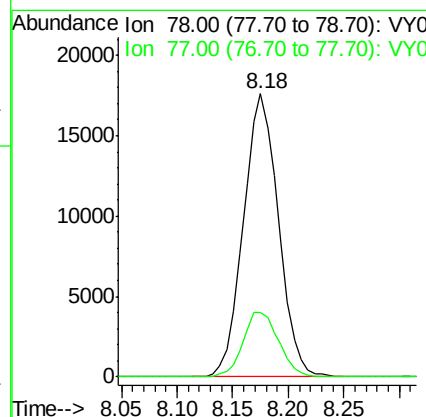
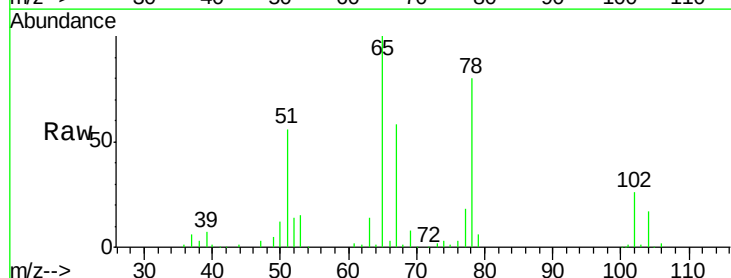
RT: 8.18 min Scan# 1056

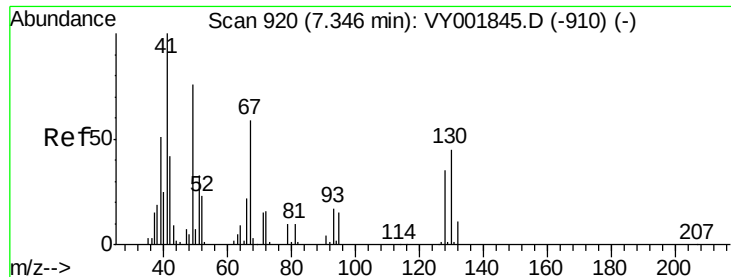
Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion:	78	Resp:	38521
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.7	28.1





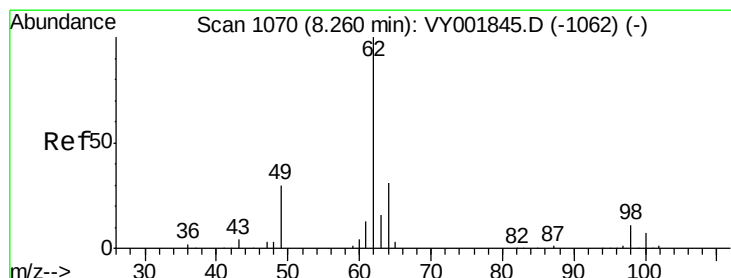
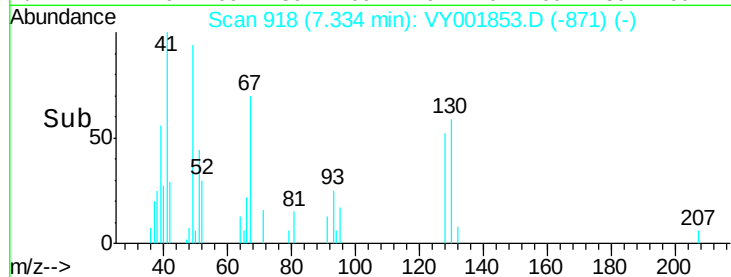
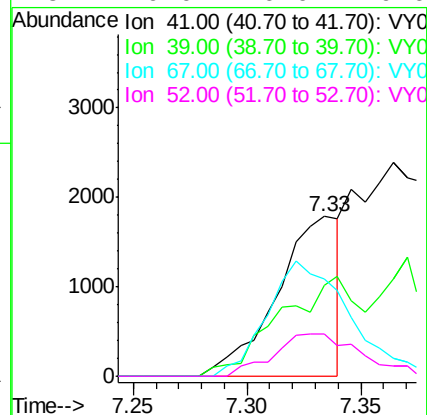
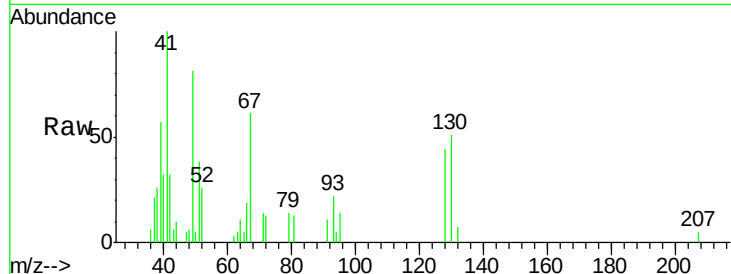
#41
Methacrylonitrile
Concen: 4.305 ug/l m
RT: 7.33 min Scan# 918
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	62.7	111.7	167.5#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

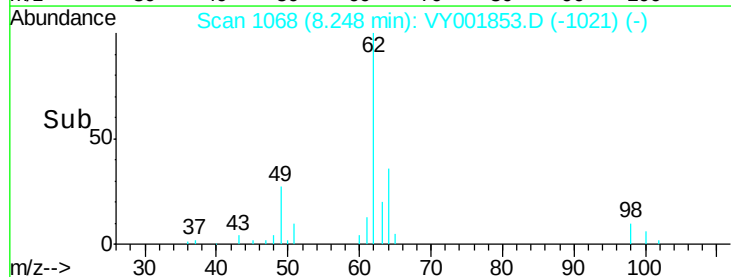
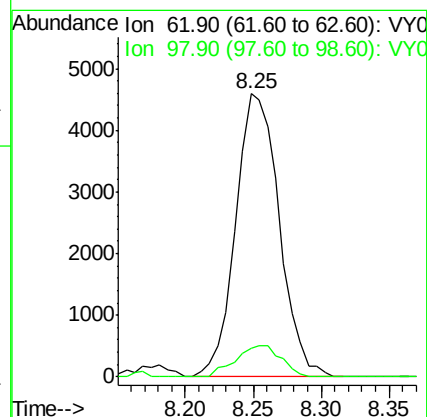
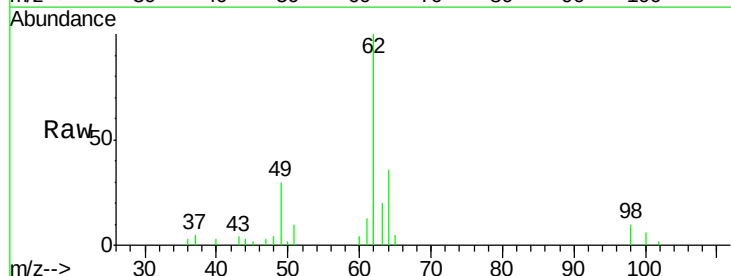
Manual Integrations
APPROVED

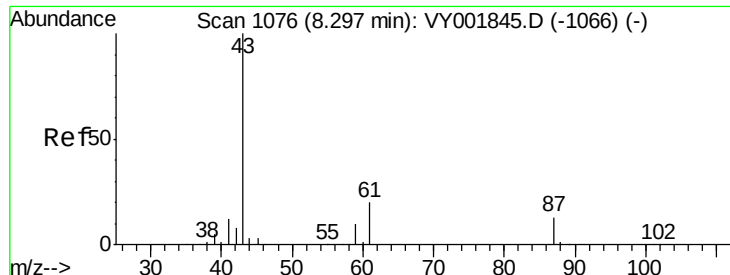
MMDadoda
3/5/2020 1:37:25 PM



#42
1,2-Dichloroethane
Concen: 4.354 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.5	0.0	21.4





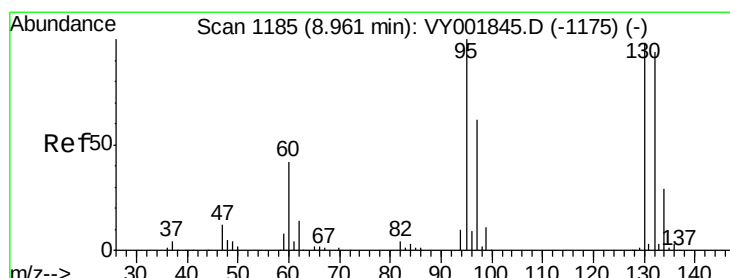
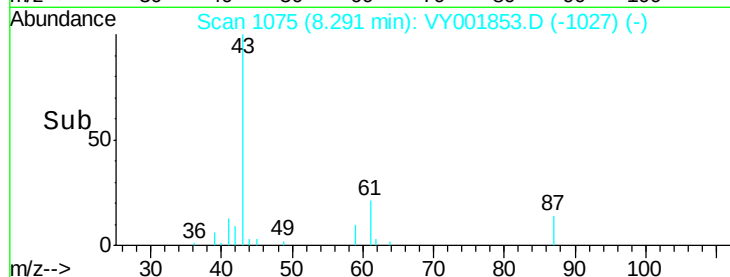
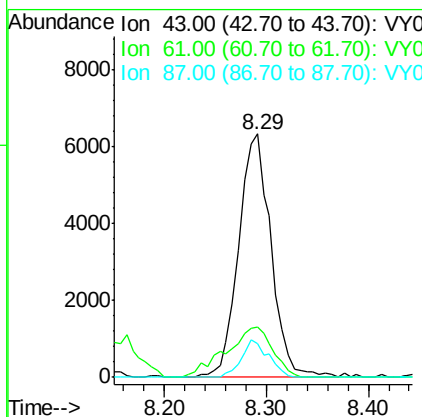
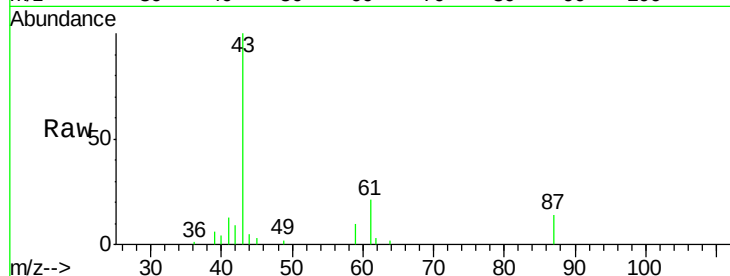
#43
Isopropyl Acetate
Concen: 4.107 ug/l
RT: 8.29 min Scan# 1075
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.9	23.8	35.6
87	12.8	10.9	16.3

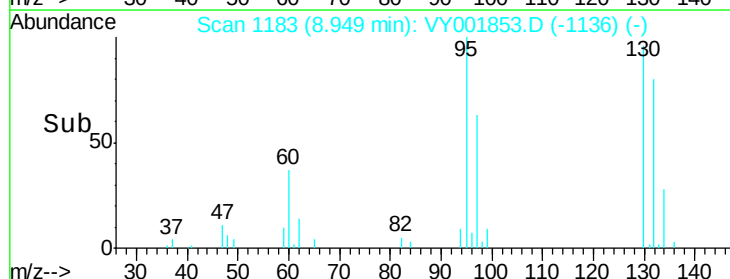
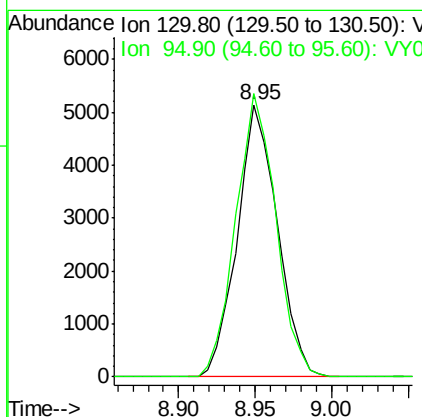
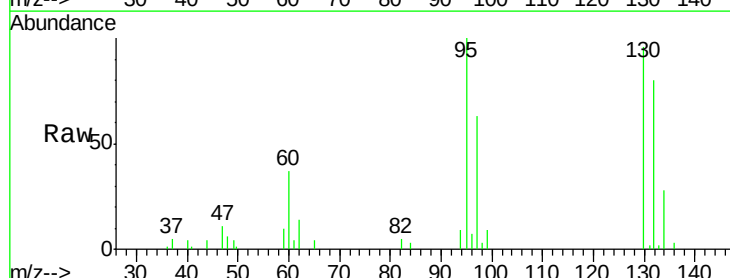
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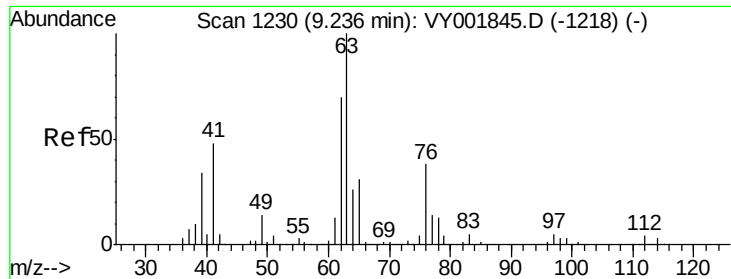
MMDadoda
3/5/2020 1:37:25 PM



#44
Trichloroethene
Concen: 4.195 ug/l
RT: 8.95 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.9	0.0	204.6





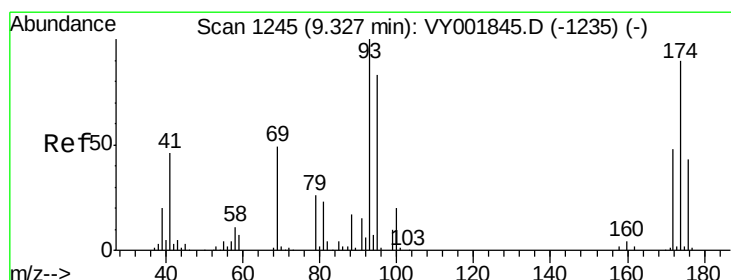
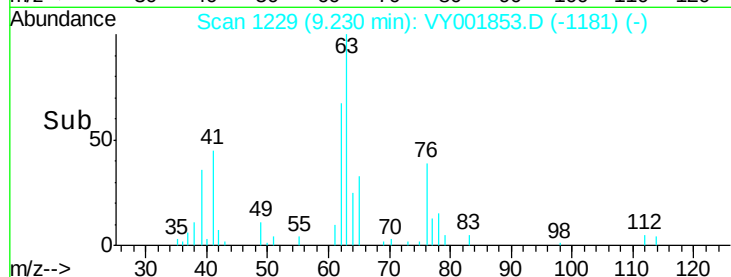
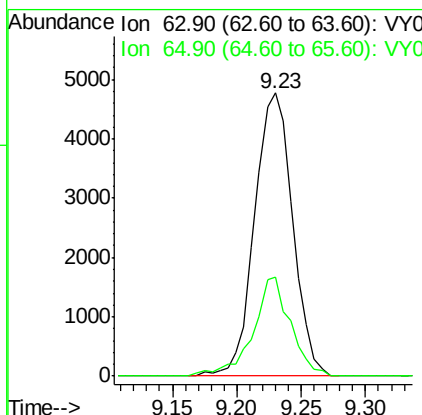
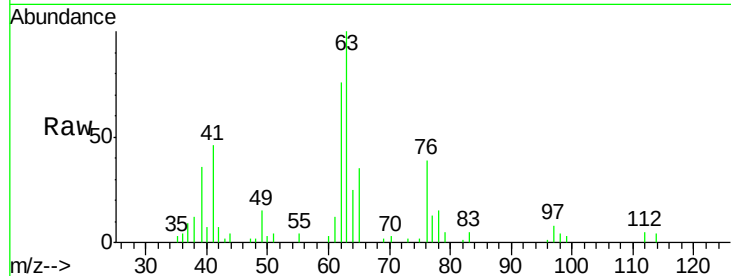
#45
 1,2-Dichloropropane
 Concen: 4.243 ug/l
 RT: 9.23 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 63 Resp: 9768
 Ion Ratio Lower Upper
 63 100
 65 34.8 24.9 37.3

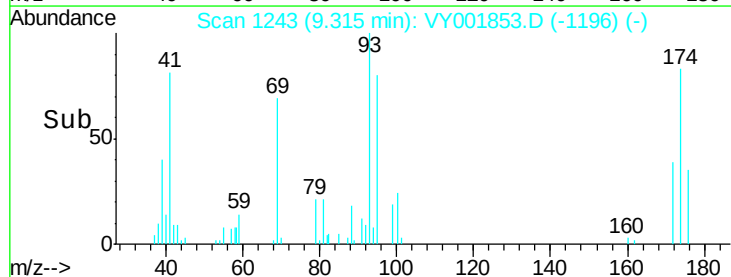
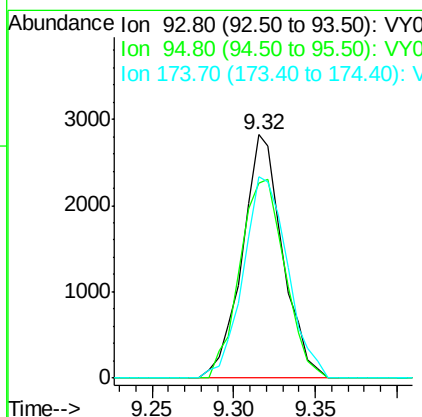
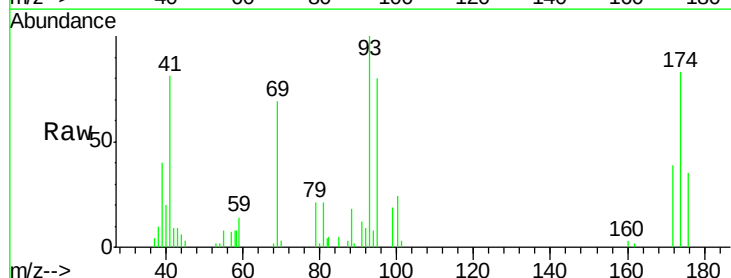
Manual Integrations
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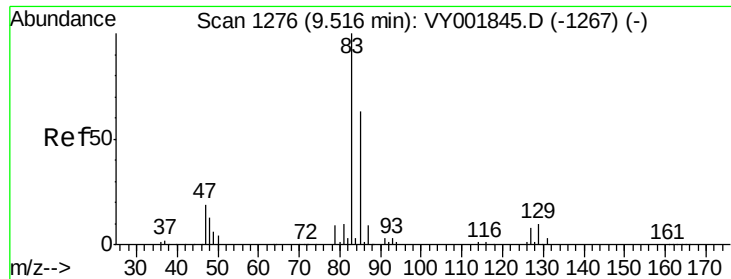
MMDadoda
 3/5/2020 1:37:25 PM



#46
 Dibromomethane
 Concen: 4.104 ug/l
 RT: 9.32 min Scan# 1243
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion: 93 Resp: 4869
 Ion Ratio Lower Upper
 93 100
 95 91.0 67.0 100.4
 174 91.0 71.8 107.8





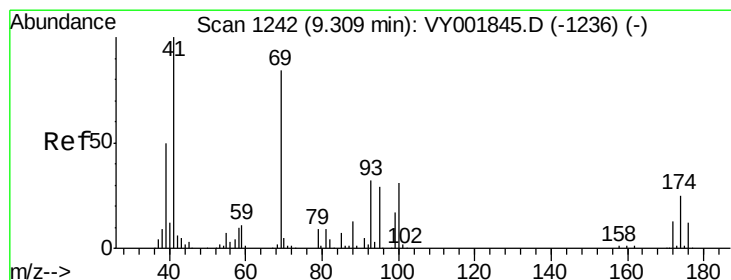
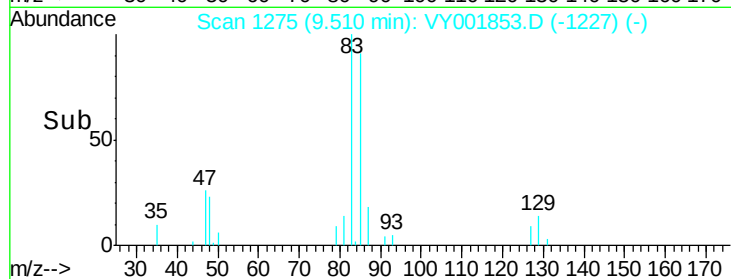
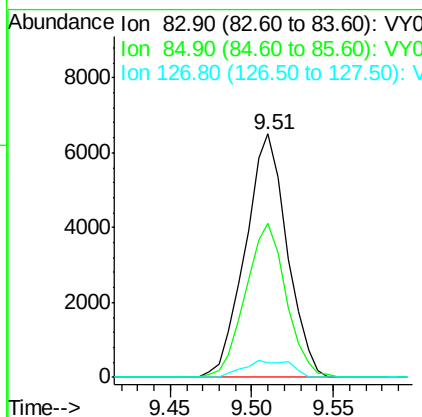
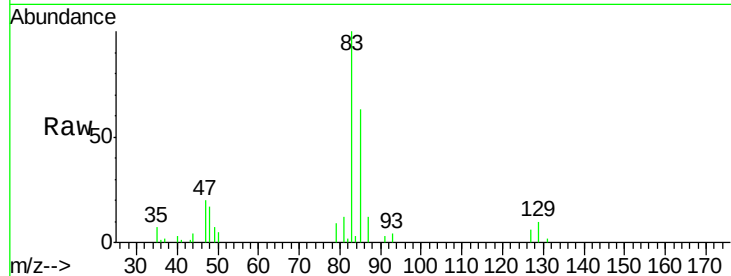
#47
Bromodichloromethane
Concen: 4.194 ug/l
RT: 9.51 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.6	76.0
127	6.1	6.2	9.4#

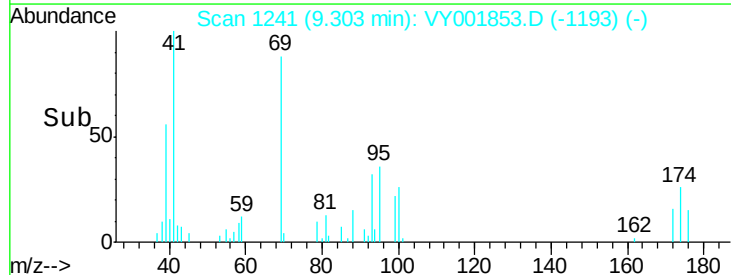
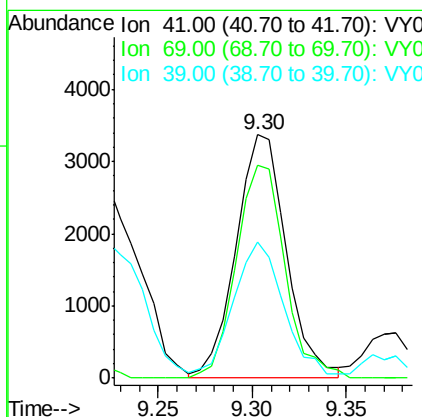
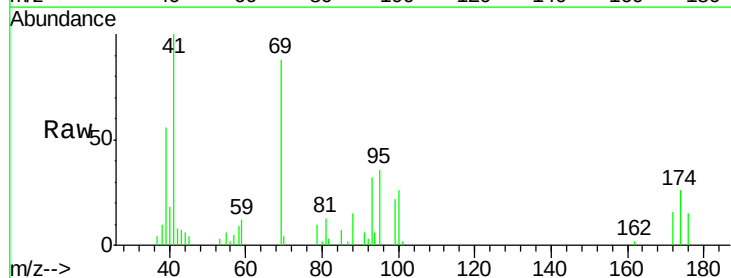
Manual Integrations
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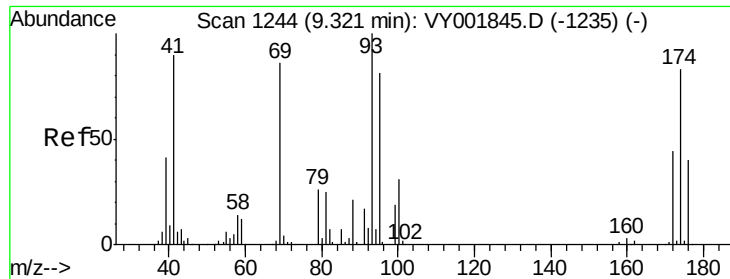
MMDadoda
3/5/2020 1:37:25 PM



#48
Methyl methacrylate
Concen: 4.145 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
41	100		
69	85.0	69.0	103.6
39	53.4	39.1	58.7





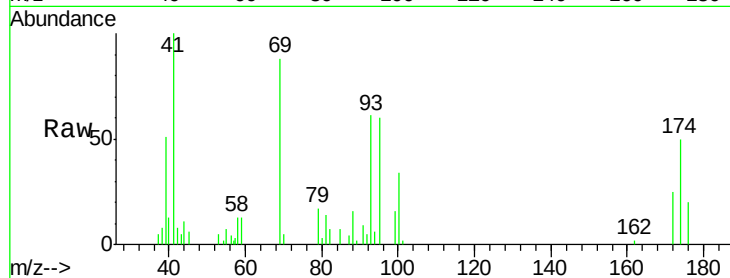
#49
 1,4-Dioxane
 Concen: 82.990 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

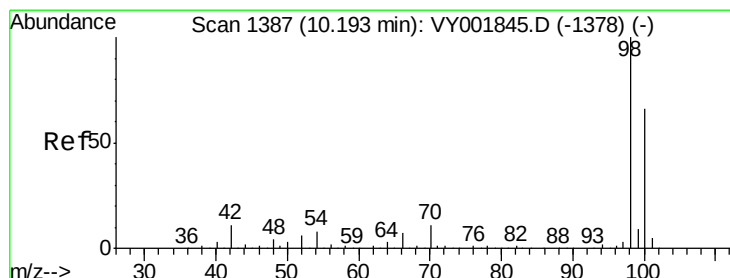
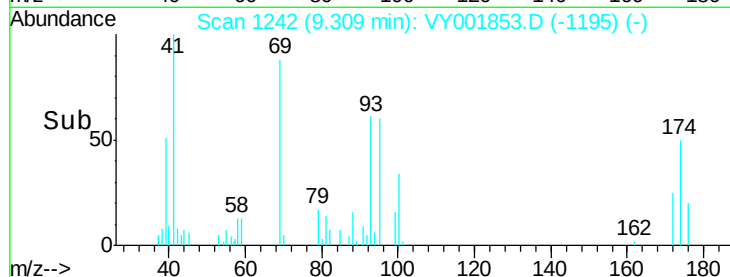
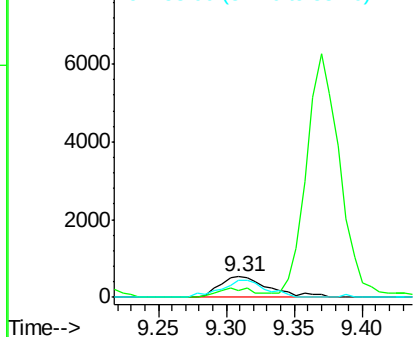
Tot Ion: 88 Resp: 1349
 Ion Ratio Lower Upper
 88 100
 43 35.4 25.0 37.6
 58 73.7 58.9 88.3

Manual Integrations
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MMDadoda
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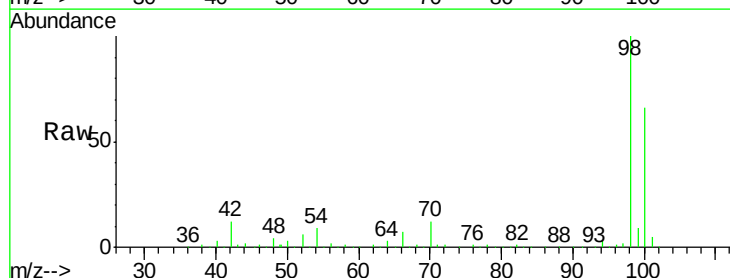


Abundance Ion 88.00 (87.70 to 88.70): VY0
 Ion 43.00 (42.70 to 43.70): VY0
 Ion 58.00 (57.70 to 58.70): VY0

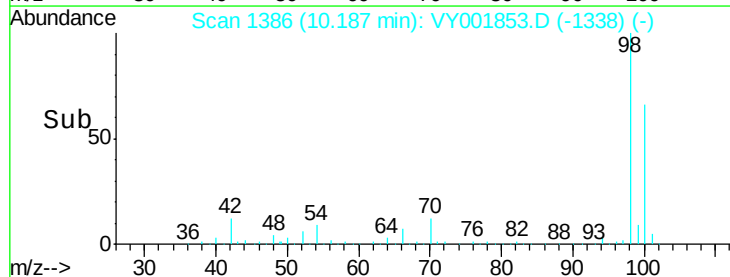
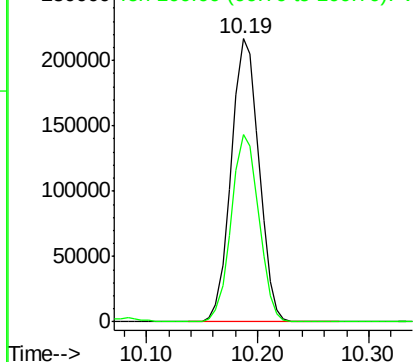


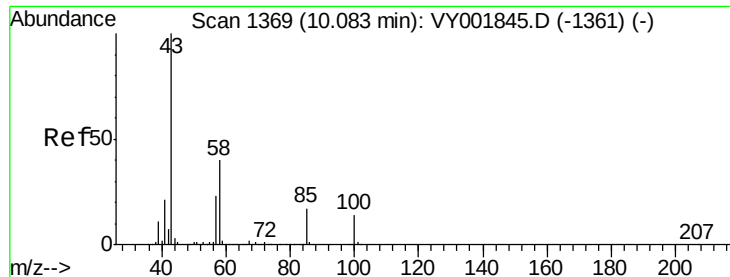
#50
 Toluene-d8
 Concen: 50.748 ug/l
 RT: 10.19 min Scan# 1386
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion: 98 Resp: 375160
 Ion Ratio Lower Upper
 98 100
 100 66.0 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0
 Ion 100.00 (99.70 to 100.70): VY0





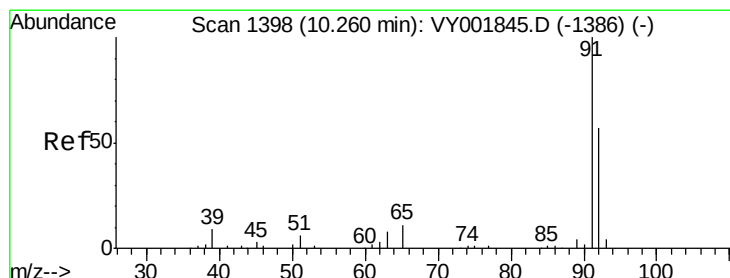
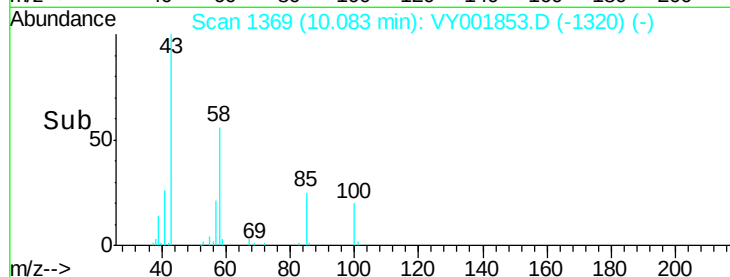
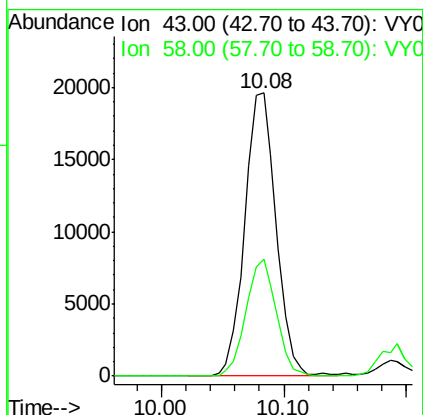
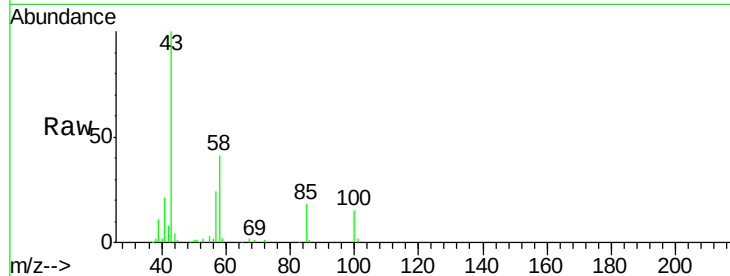
#51
4-Methyl-2-Pentanone
Concen: 19.989 ug/l
RT: 10.08 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 43 Resp: 35002
Ion Ratio Lower Upper
43 100
58 40.0 32.0 48.0

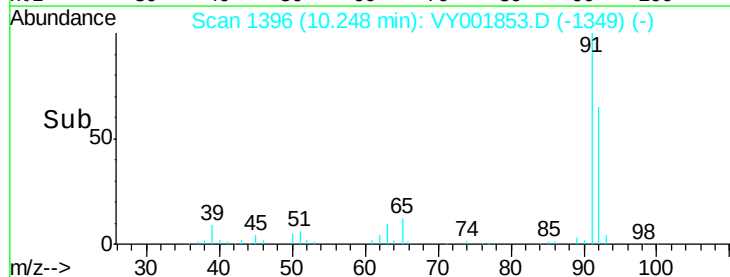
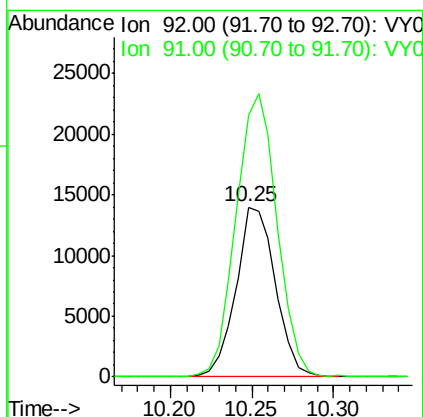
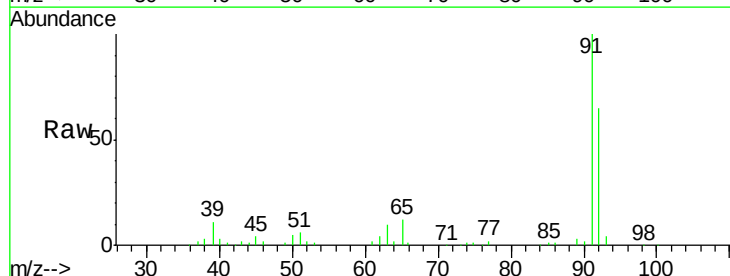
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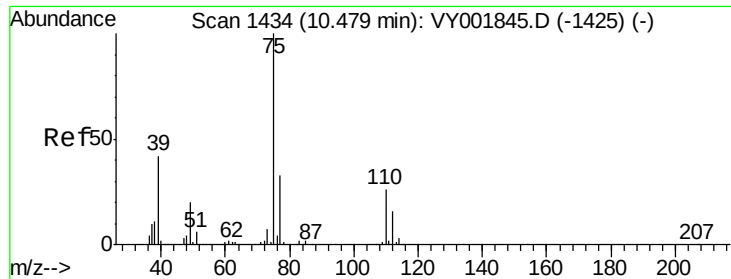
MMDadoda
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#52
Toluene
Concen: 4.241 ug/l
RT: 10.25 min Scan# 1396
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion: 92 Resp: 23595
Ion Ratio Lower Upper
92 100
91 172.8 138.6 208.0





#53

t-1,3-Dichloropropene

Concen: 4.048 ug/l

RT: 10.47 min Scan# 1433

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 75 Resp: 12171

Ion Ratio Lower Upper

75 100

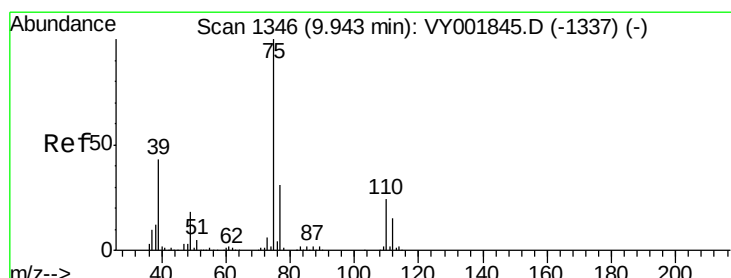
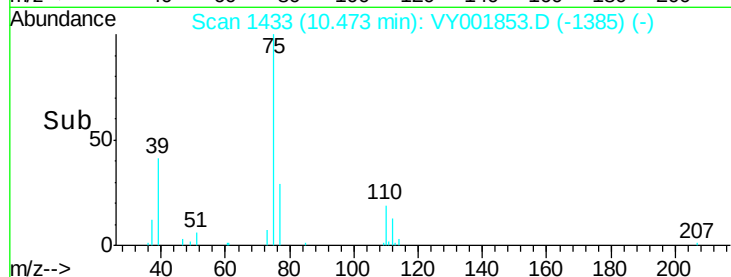
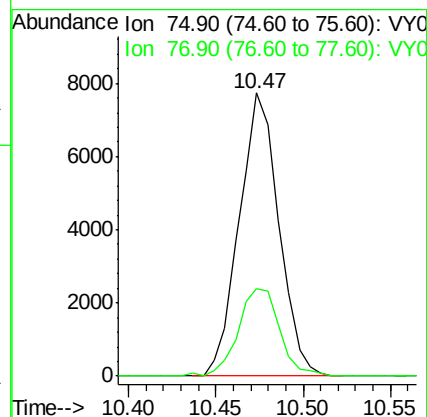
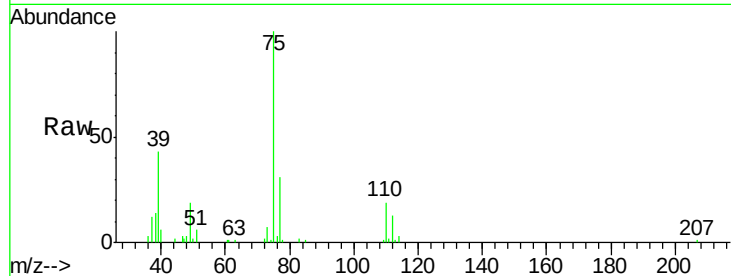
77 30.8 26.3 39.5

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 3.992 ug/l

RT: 9.94 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

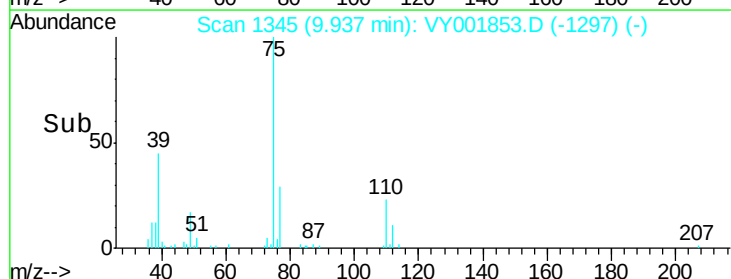
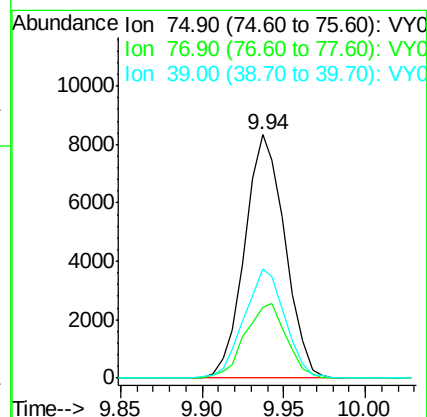
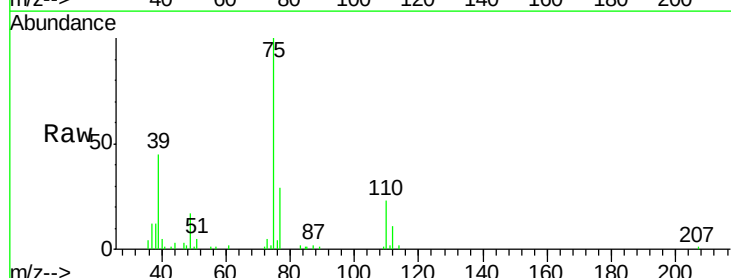
Tgt Ion: 75 Resp: 14286

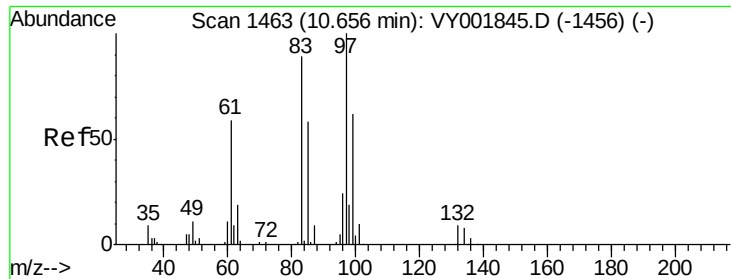
Ion Ratio Lower Upper

75 100

77 28.9 25.1 37.7

39 44.9 34.7 52.1





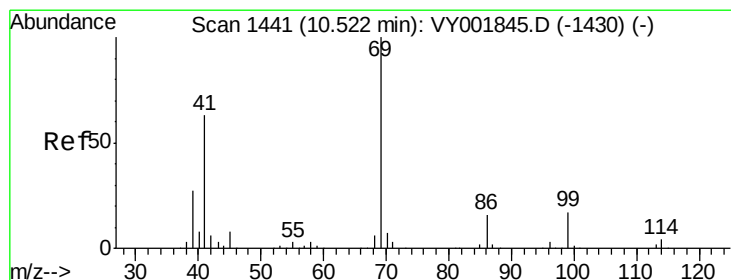
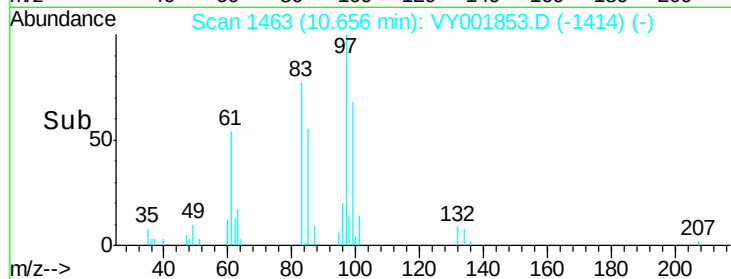
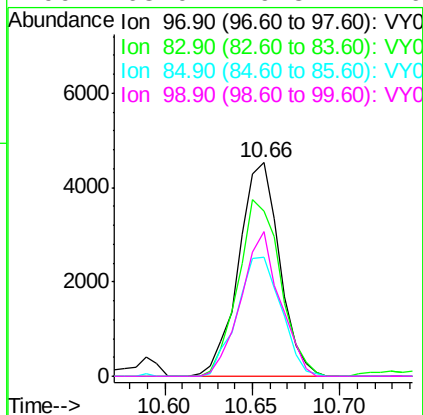
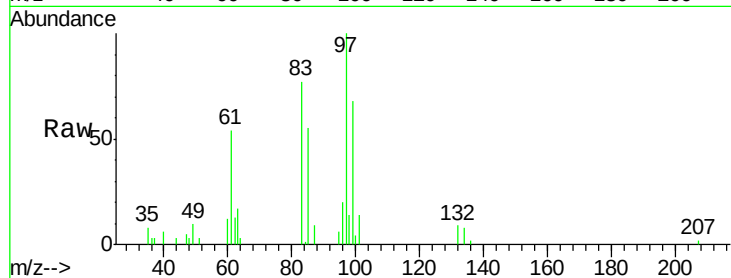
#55
 1,1,2-Trichloroethane
 Concen: 4.258 ug/l
 RT: 10.66 min Scan# 1463
 Delta R.T. 0.00 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	97	Resp:	7392
Ion	Ratio	Lower	Upper
97	100		
83	77.2	71.6	107.4
85	55.5	46.6	69.8
99	68.0	49.8	74.6

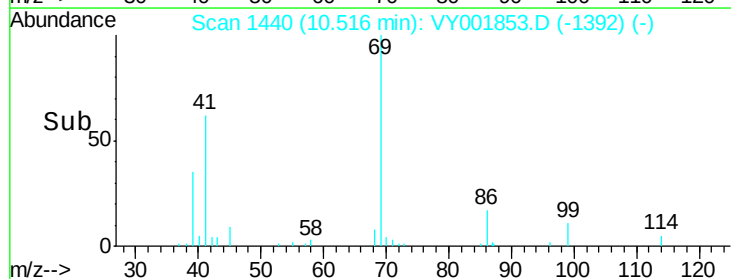
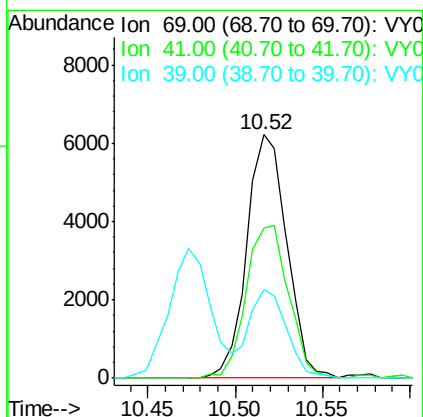
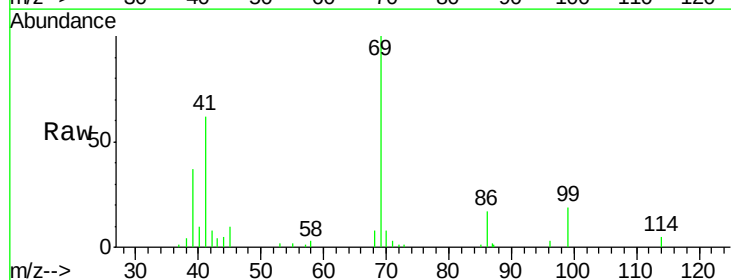
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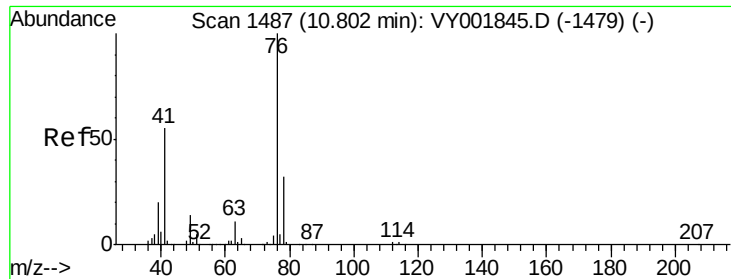
MMDadoda
 3/5/2020 1:37:25 PM



#56
 Ethyl methacrylate
 Concen: 3.875 ug/l
 RT: 10.52 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion:	69	Resp:	9861
Ion	Ratio	Lower	Upper
69	100		
41	66.8	49.9	74.9
39	34.7	23.0	34.6#





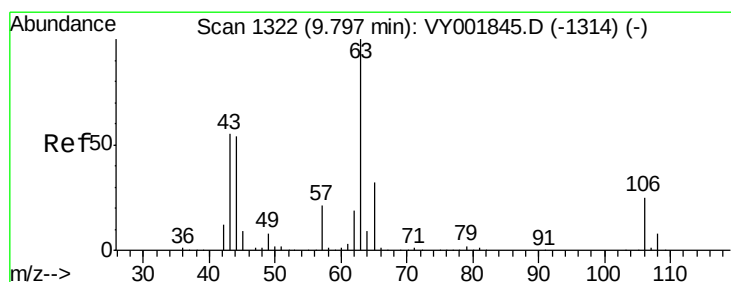
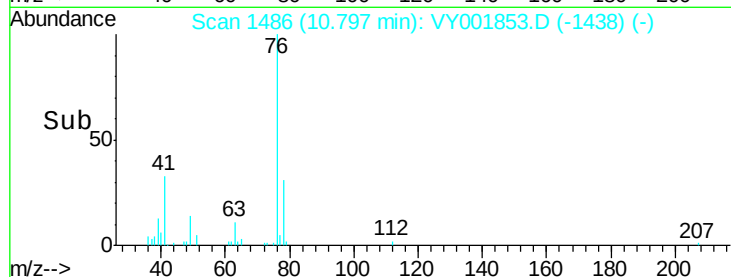
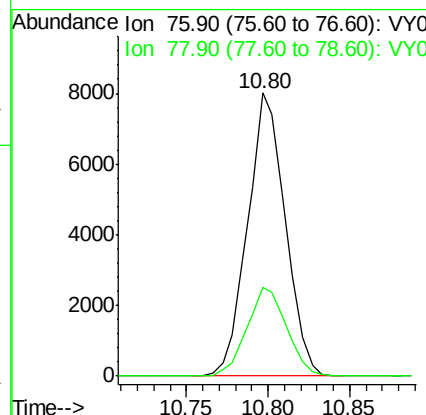
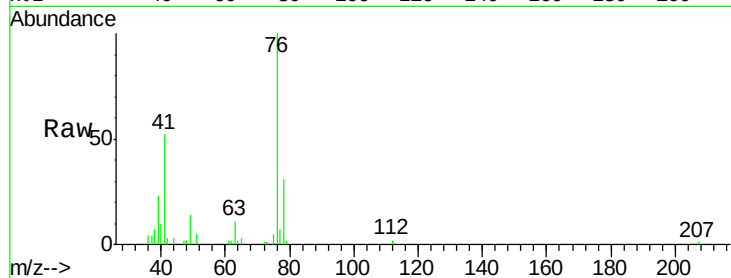
#57
 1,3-Dichloropropane
 Concen: 4.154 ug/l
 RT: 10.80 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.6

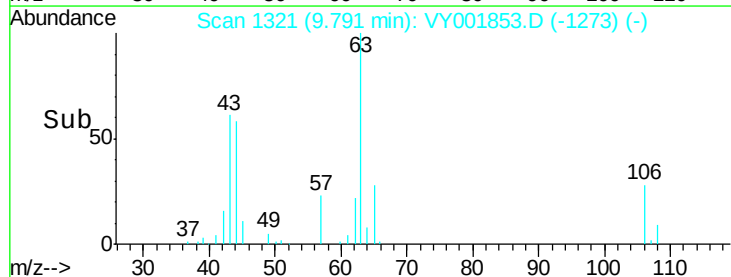
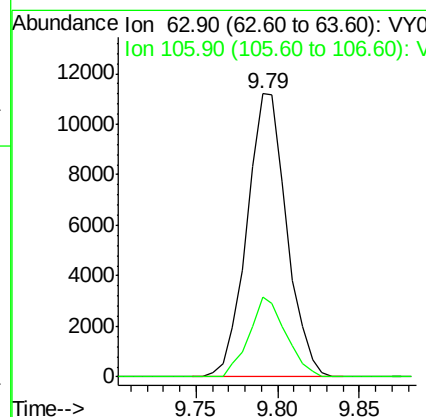
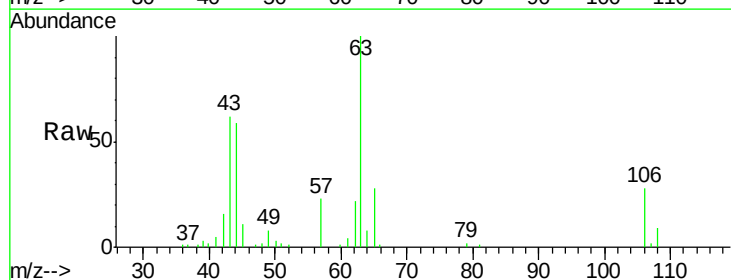
Manual Integrations
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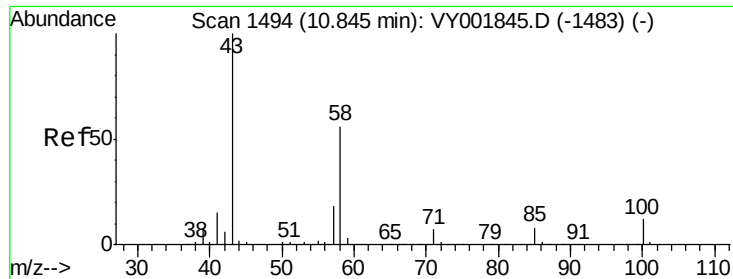
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 3/5/2020 1:37:25 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.827 ug/l
 RT: 9.79 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.2	21.3	31.9





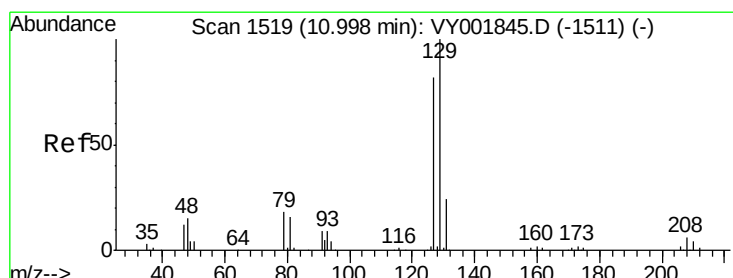
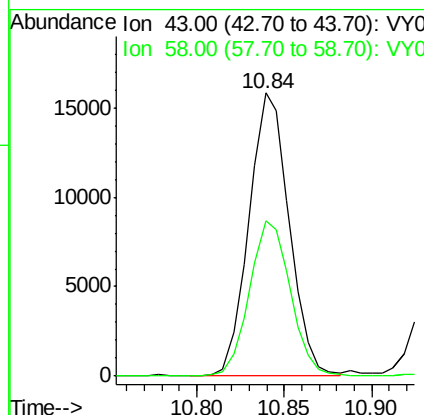
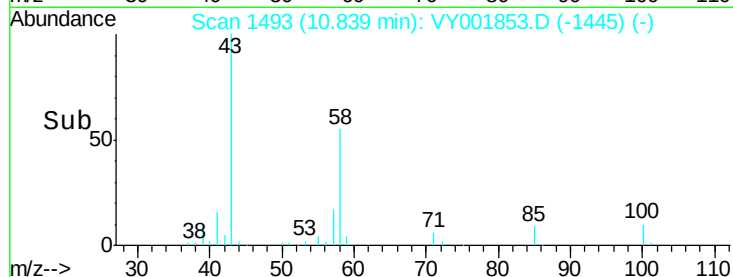
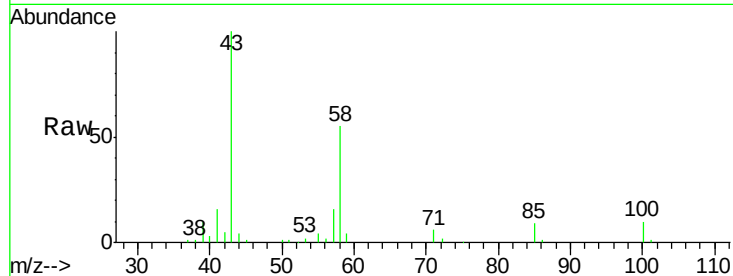
#59
2-Hexanone
Concen: 20.214 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 43 Resp: 25264
Ion Ratio Lower Upper
43 100
58 55.8 28.1 84.3

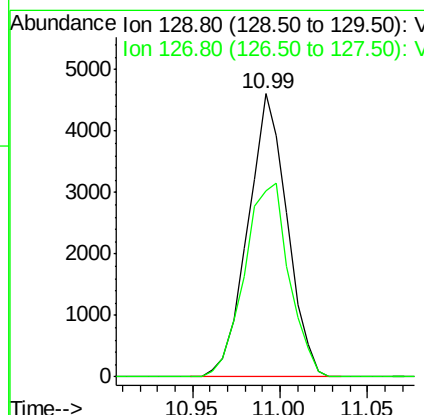
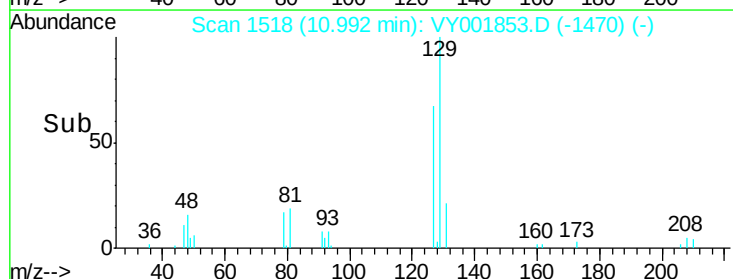
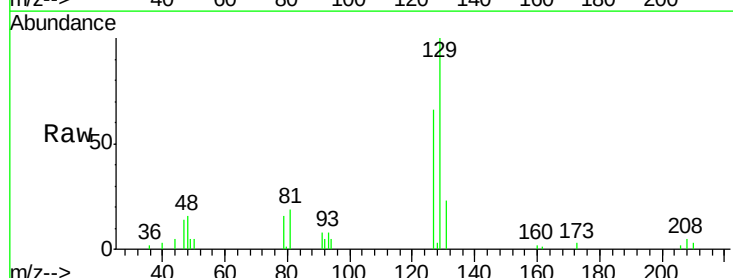
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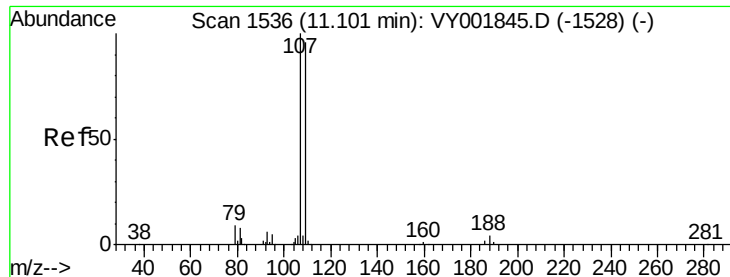
MMDadoda
3/5/2020 1:37:25 PM



#60
Dibromochloromethane
Concen: 3.929 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion: 129 Resp: 7187
Ion Ratio Lower Upper
129 100
127 77.8 39.0 117.0





#61

1,2-Dibromoethane

Concen: 4.025 ug/l

RT: 11.10 min Scan# 1535

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 107 Resp: 6620

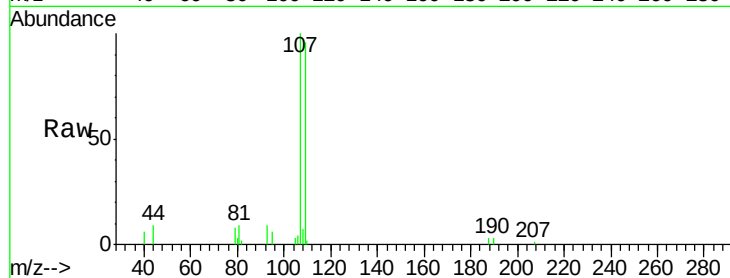
Ion Ratio Lower Upper

107 100

109 95.6 75.4 113.0

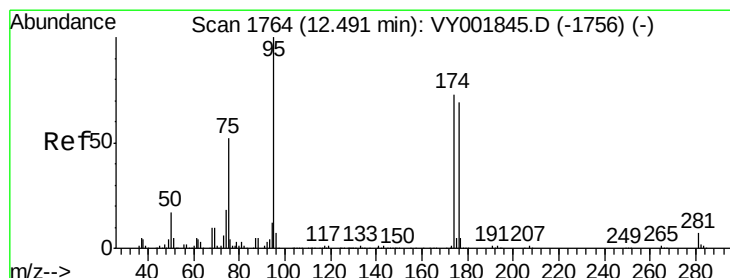
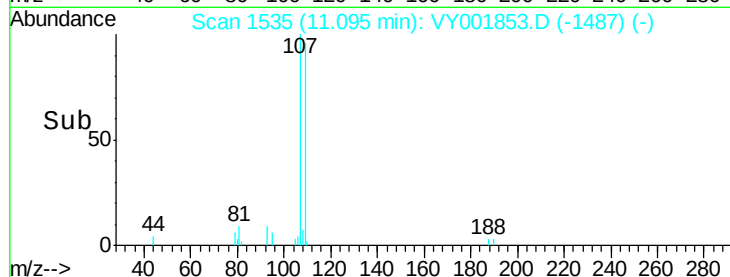
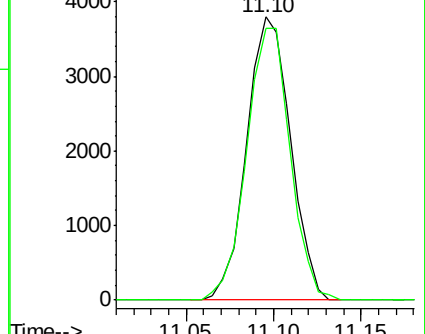
Manual Integrations
APPROVED

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.422 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

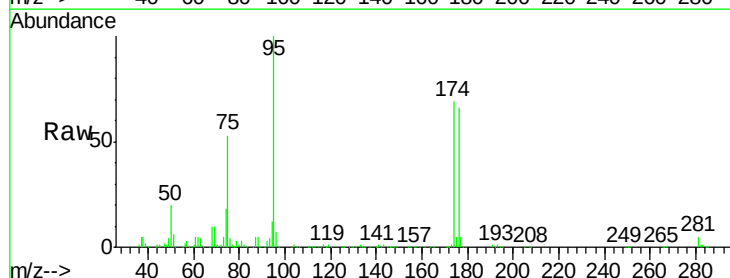
Tgt Ion: 95 Resp: 129609

Ion Ratio Lower Upper

95 100

174 72.2 0.0 145.0

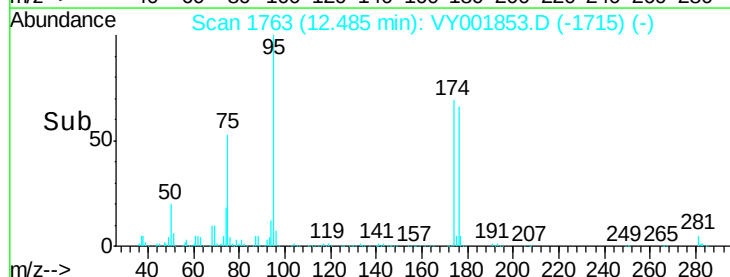
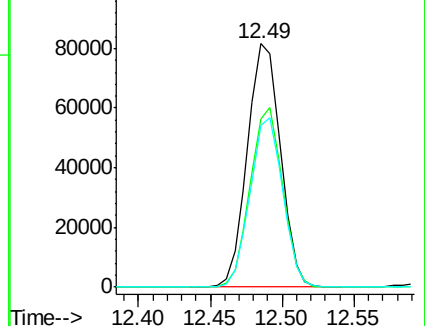
176 68.4 0.0 137.4

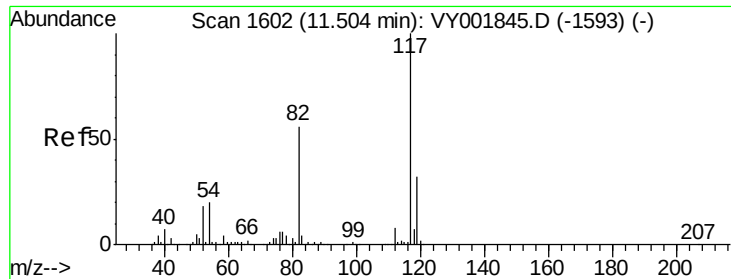


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





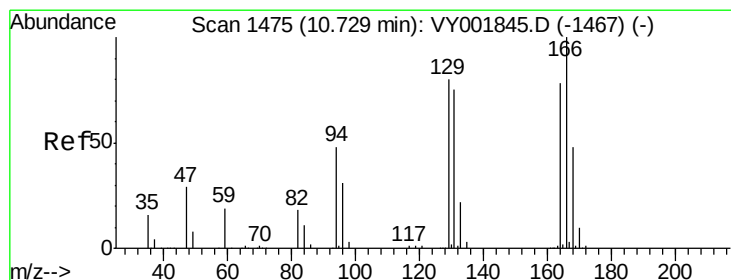
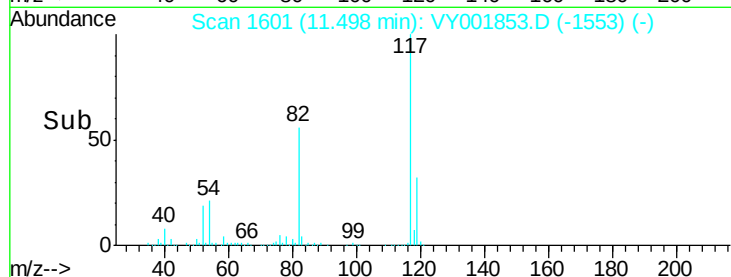
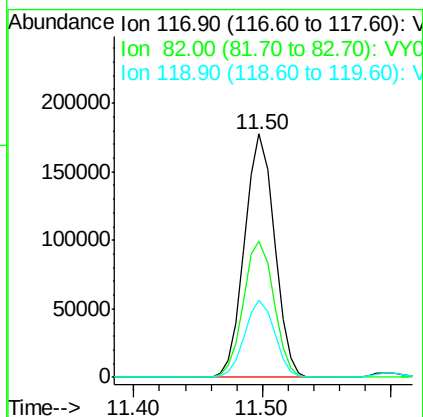
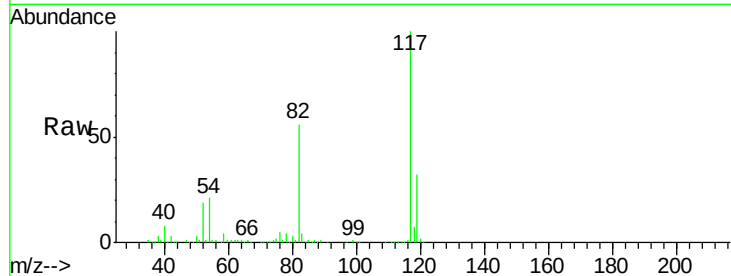
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	285219		
82	56.1		44.5	66.7
119	31.8		25.7	38.5

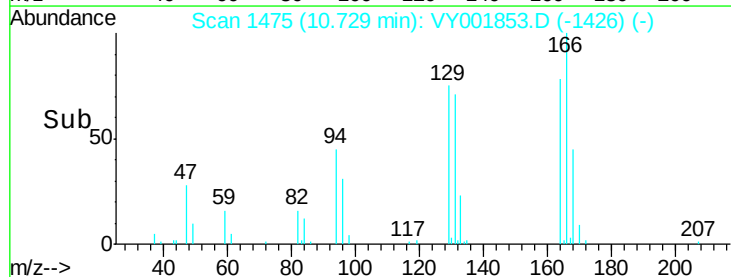
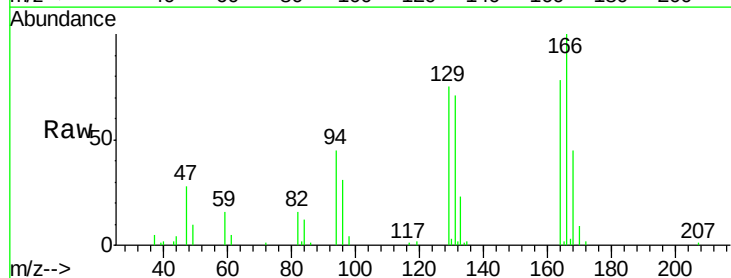
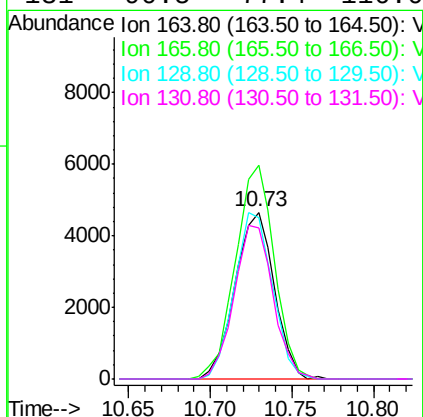
Manual Integrations
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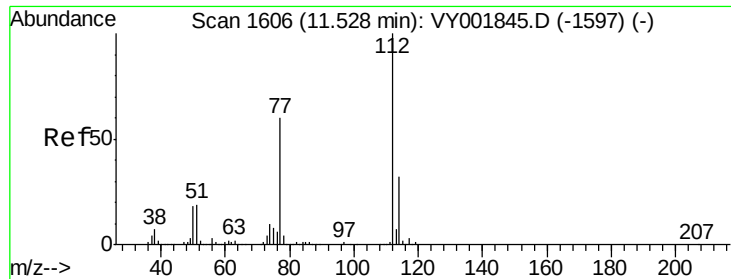
MMDadoda
3/5/2020 1:37:25 PM



#64
Tetrachloroethene
Concen: 4.369 ug/l
RT: 10.73 min Scan# 1475
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	7814		
166	128.3		102.6	154.0
129	96.6		82.3	123.5
131	90.5		77.4	116.0





#65

Chlorobenzene

Concen: 4.215 ug/l

RT: 11.52 min Scan# 1605

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:112 Resp: 23956

Ion Ratio Lower Upper

112 100

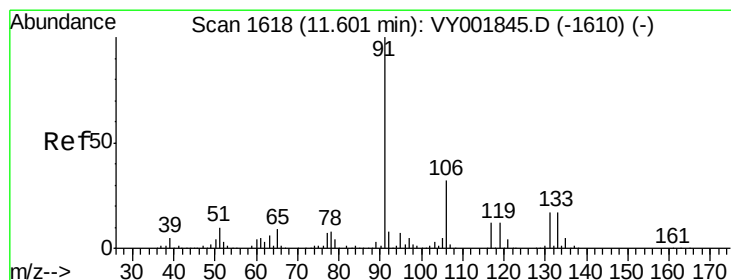
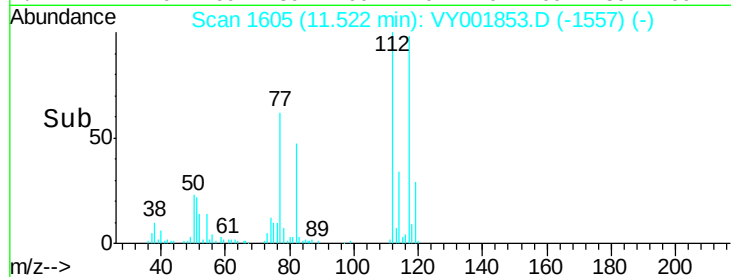
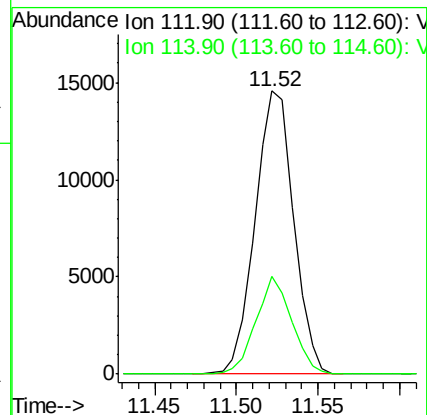
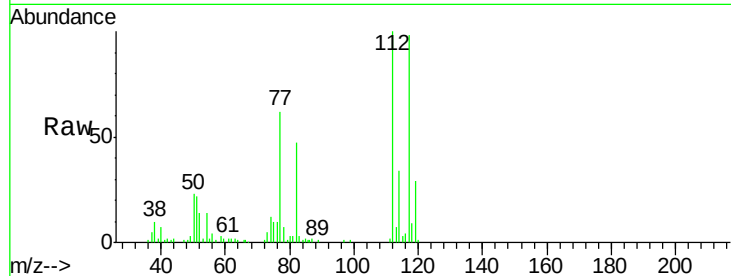
114 34.4 25.9 38.9

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 3.977 ug/l

RT: 11.60 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

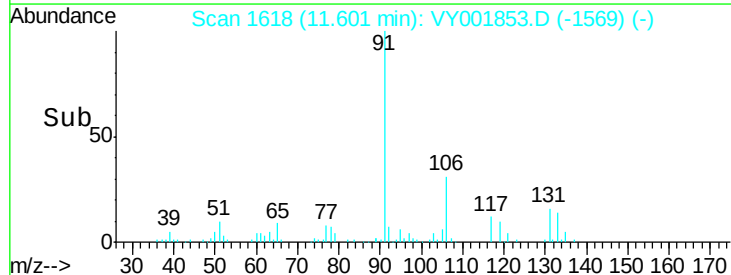
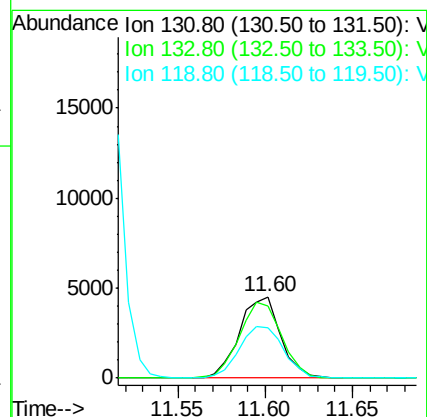
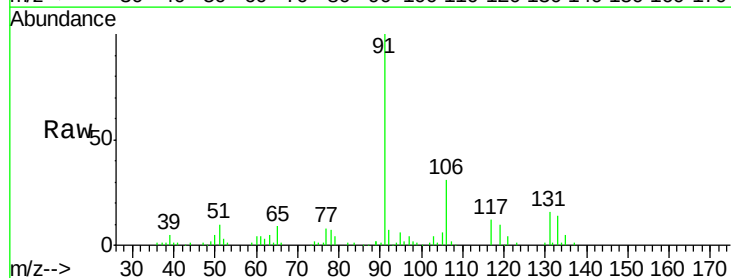
Tgt Ion:131 Resp: 7412

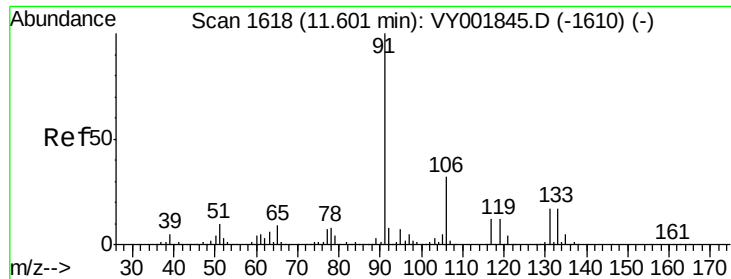
Ion Ratio Lower Upper

131 100

133 95.9 47.1 141.3

119 67.7 34.5 103.6





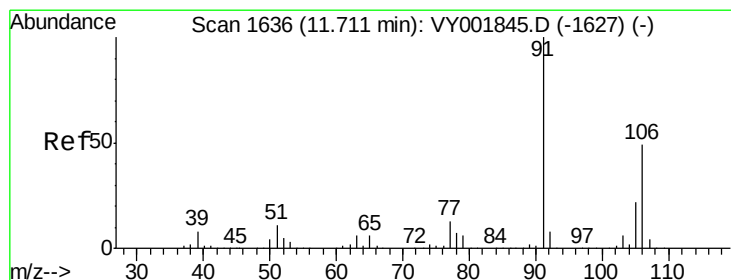
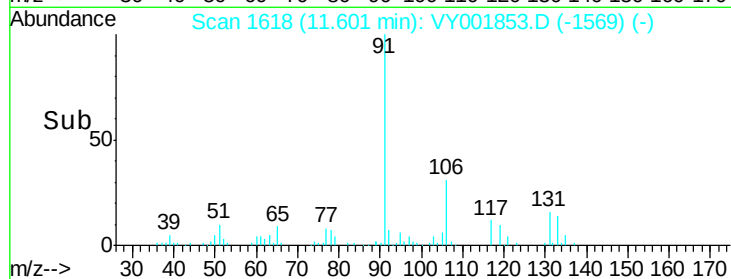
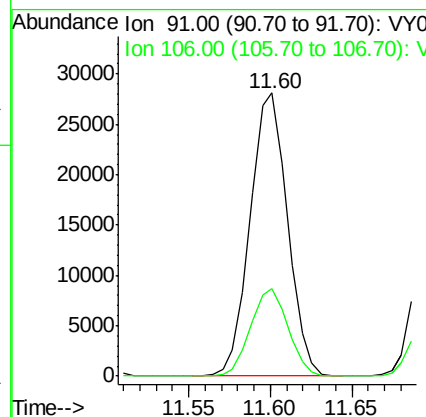
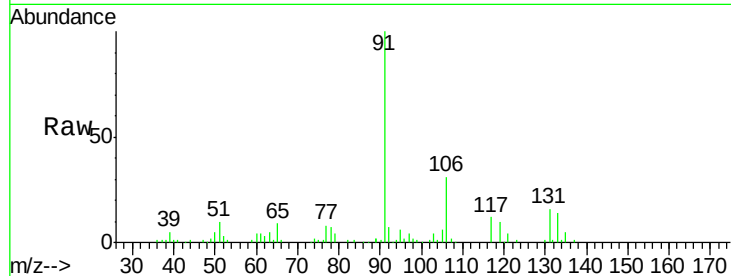
#67
Ethyl Benzene
Concen: 4.245 ug/l
RT: 11.60 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 91 Resp: 44992
Ion Ratio Lower Upper
91 100
106 30.8 25.4 38.2

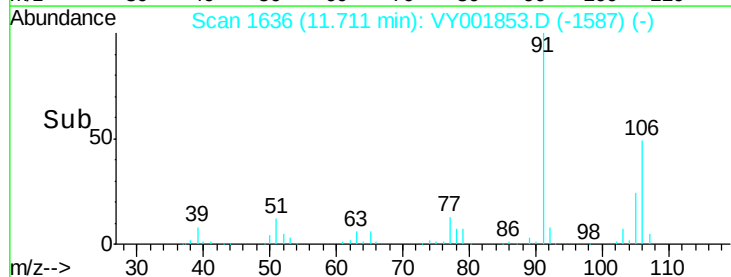
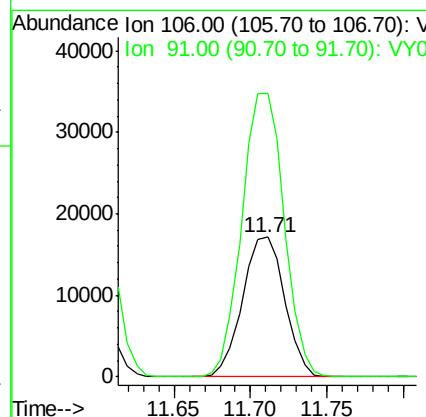
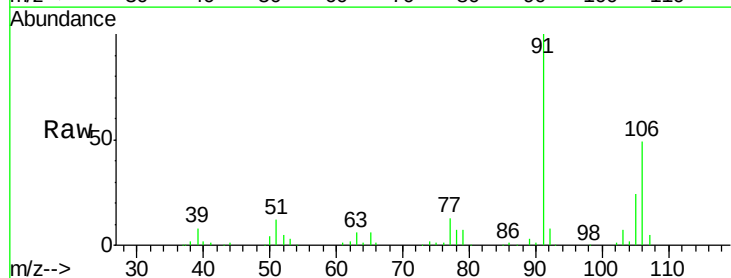
Manual Integrations
APPROVED

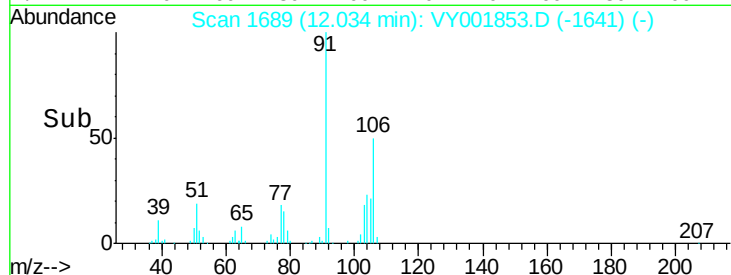
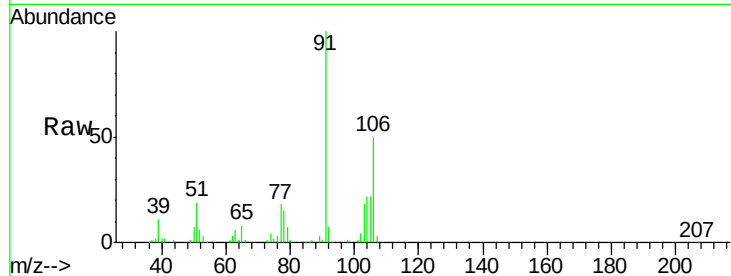
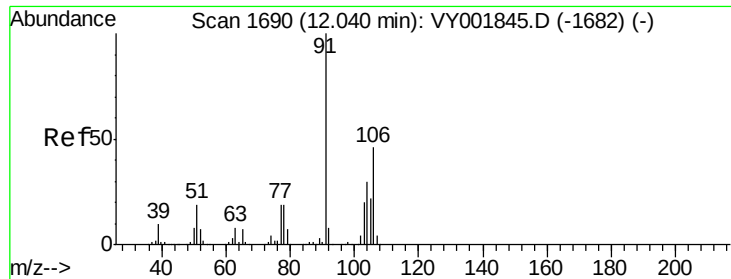
MMDadoda
3/5/2020 1:37:25 PM



#68
m/p-Xylenes
Concen: 8.390 ug/l
RT: 11.71 min Scan# 1636
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion: 106 Resp: 32878
Ion Ratio Lower Upper
106 100
91 203.0 161.3 241.9





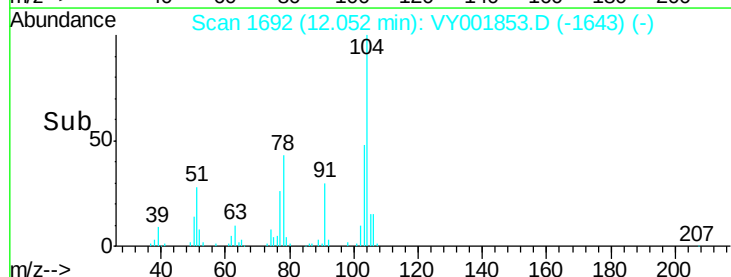
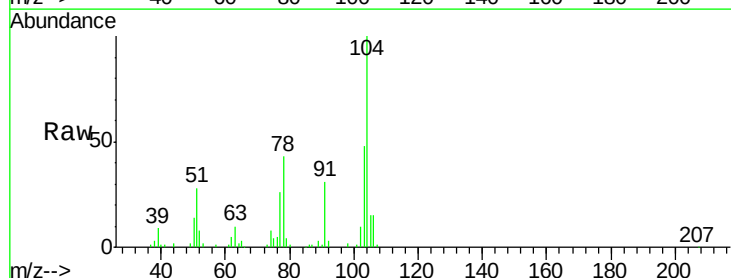
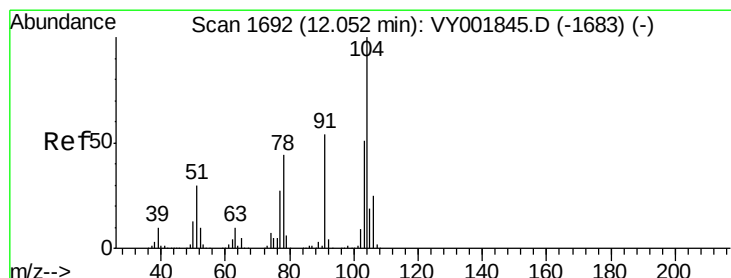
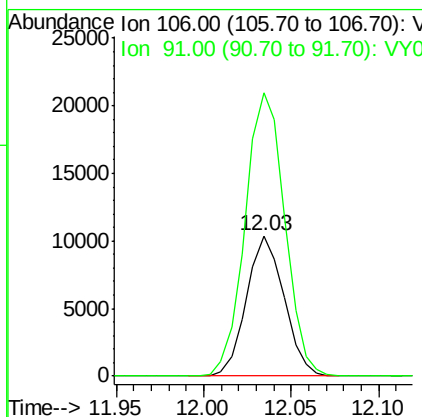
#69
o-Xylene
Concen: 4.190 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tot Ion:106 Resp: 15475
Ion Ratio Lower Upper
106 100
91 213.2 106.8 320.4

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

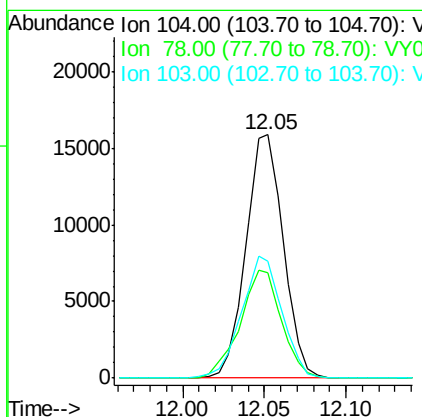
Manual Integrations
APPROVED

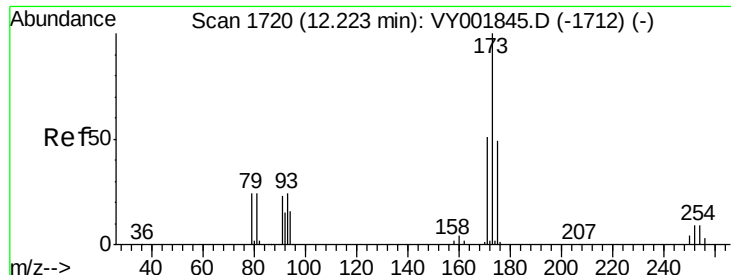
MMDadoda
3/5/2020 1:37:25 PM



#70
Styrene
Concen: 4.014 ug/l
RT: 12.05 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion:104 Resp: 25393
Ion Ratio Lower Upper
104 100
78 48.9 38.5 57.7
103 54.1 42.9 64.3





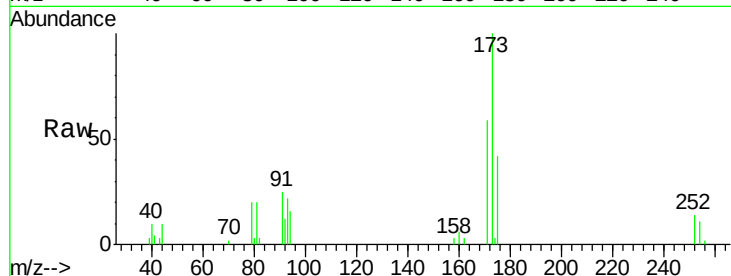
#71
Bromoform
Concen: 3.857 ug/l
RT: 12.22 min Scan# 1719
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

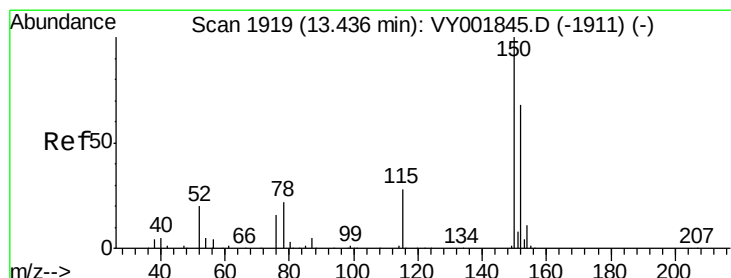
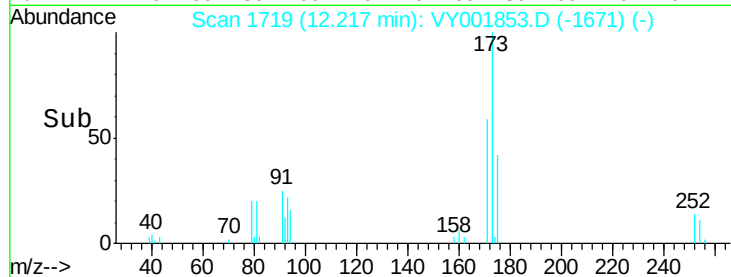
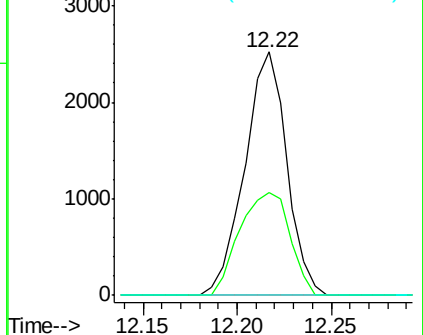
Tot Ion	Ratio	Lower	Upper
173	100		
175	50.4	24.3	72.8
254	0.0	0.0	0.0

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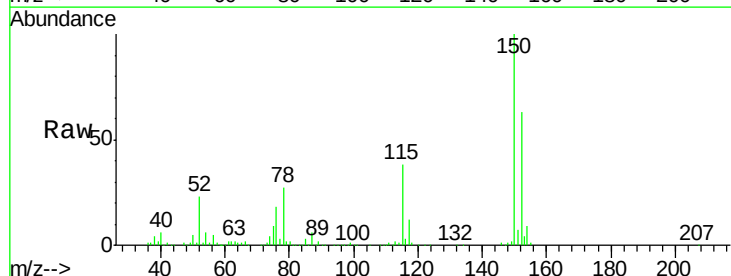


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

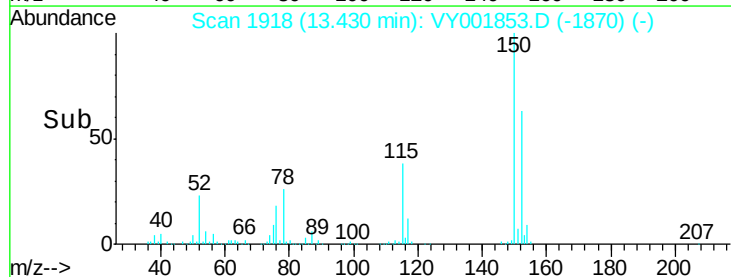
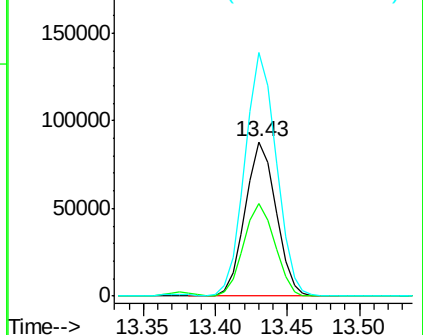


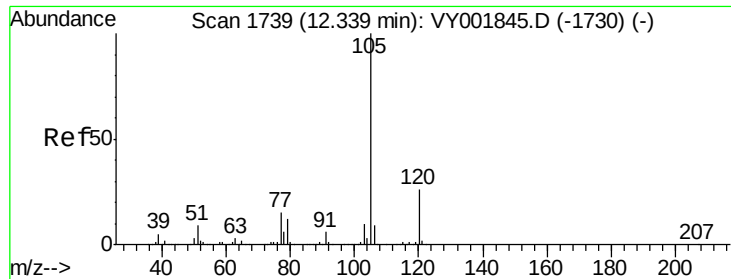
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.0	29.9	89.7
150	160.1	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





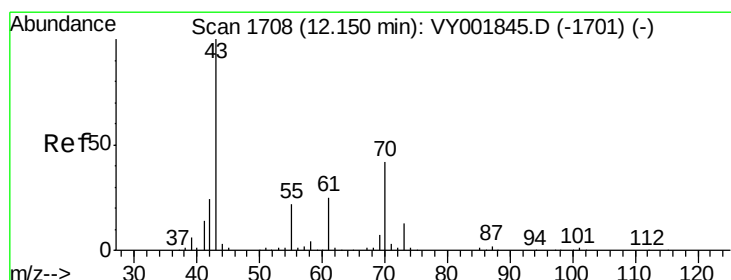
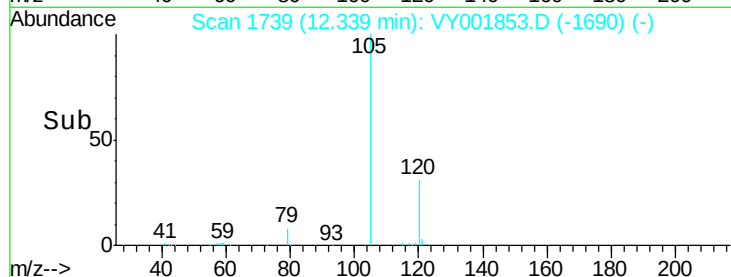
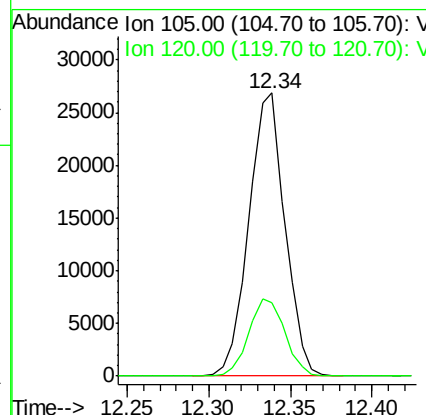
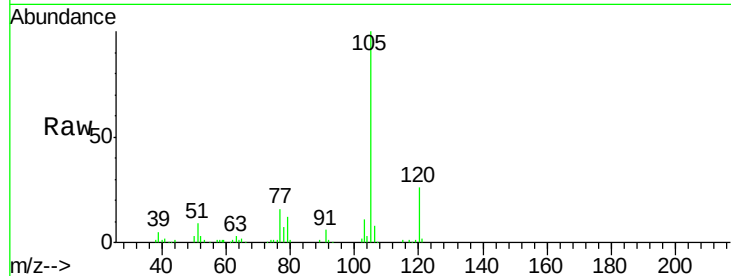
#73
Isopropylbenzene
Concen: 4.152 ug/l
RT: 12.34 min Scan# 1739
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.1	39.3

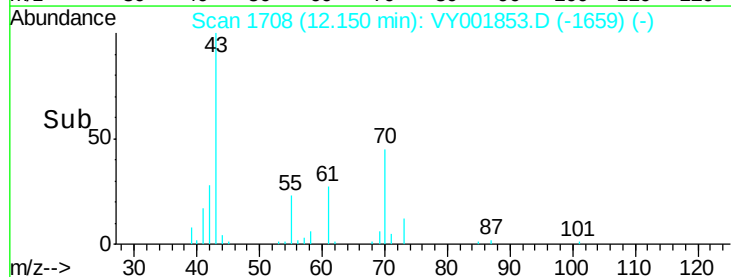
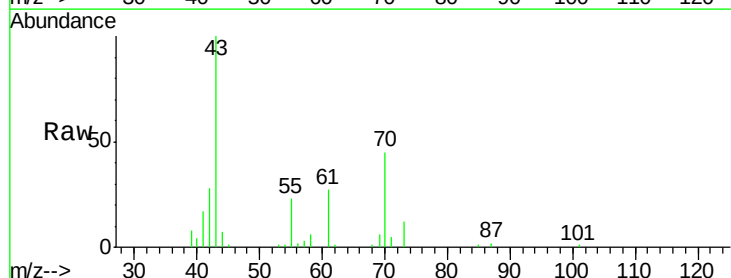
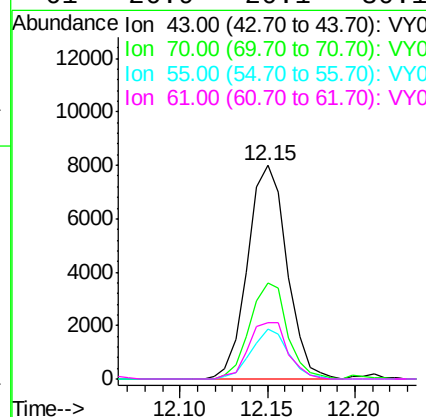
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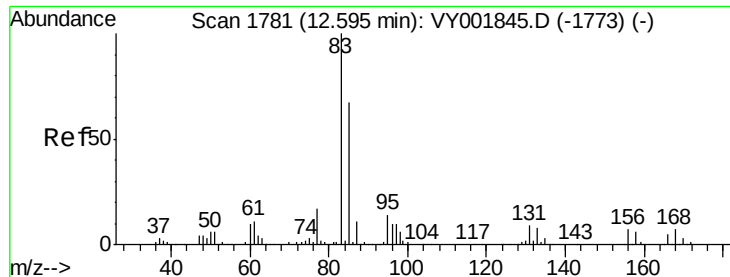
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3/5/2020 1:37:25 PM



#74
N-ethyl acetate
Concen: 4.085 ug/l
RT: 12.15 min Scan# 1708
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.1	34.7	52.1
55	22.1	18.2	27.4
61	26.9	20.1	30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 4.085 ug/l

RT: 12.59 min Scan# 1780

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

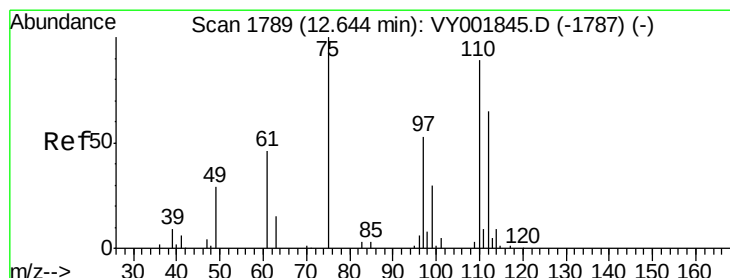
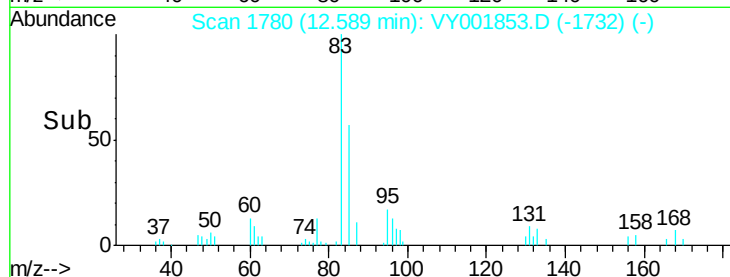
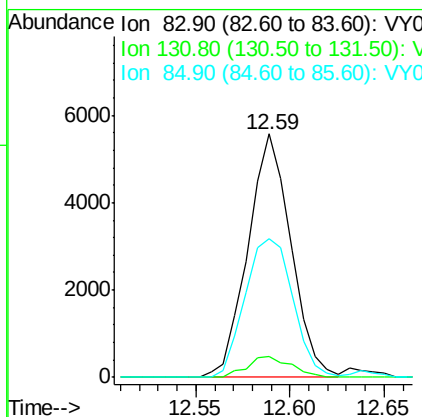
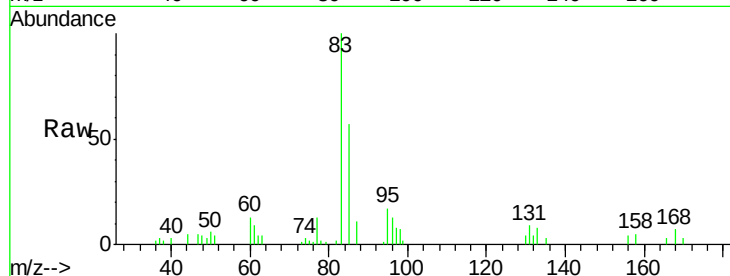
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	83	Resp:	8810
Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.6	13.8
85	63.5	32.1	96.3

Manual Integrations
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3/5/2020 1:37:25 PM



#76

1,2,3-Trichloropropane

Concen: 4.163 ug/l m

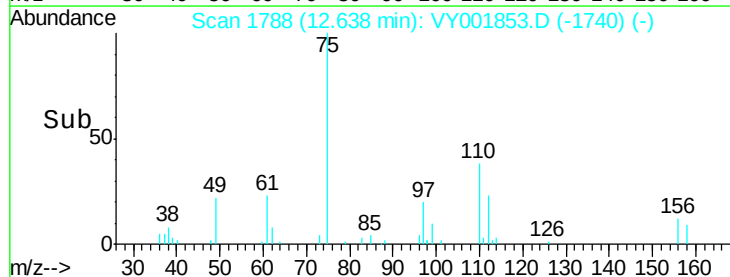
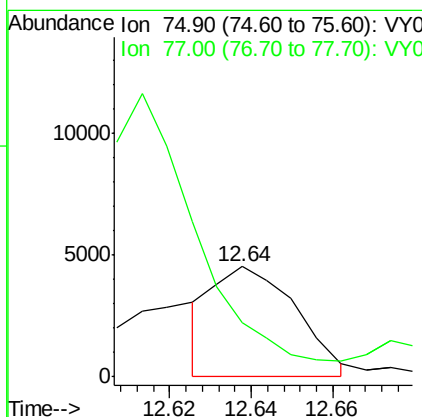
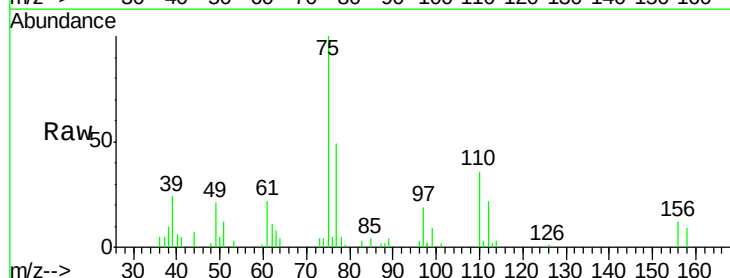
RT: 12.64 min Scan# 1788

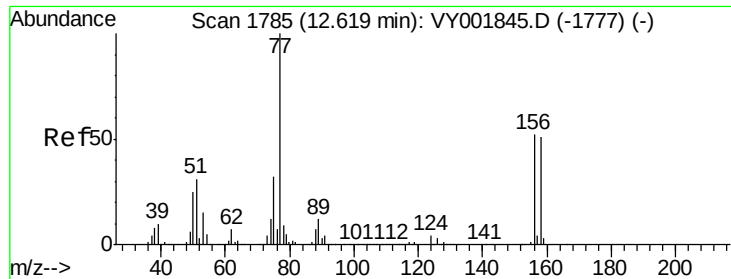
Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion:	75	Resp:	6470
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.192 ug/l

RT: 12.61 min Scan# 1784

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

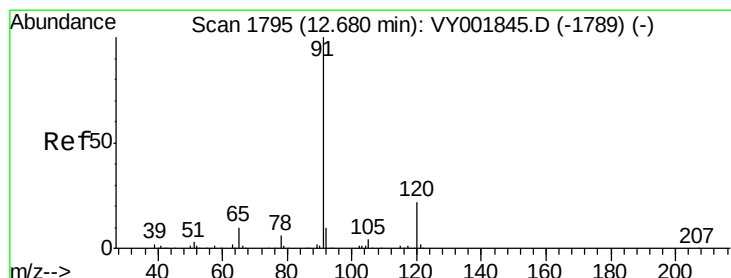
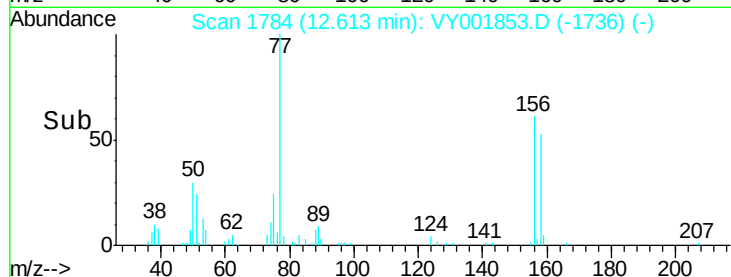
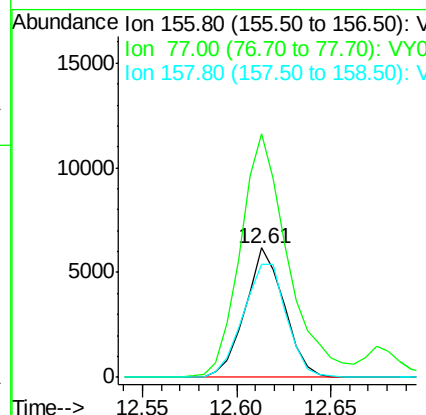
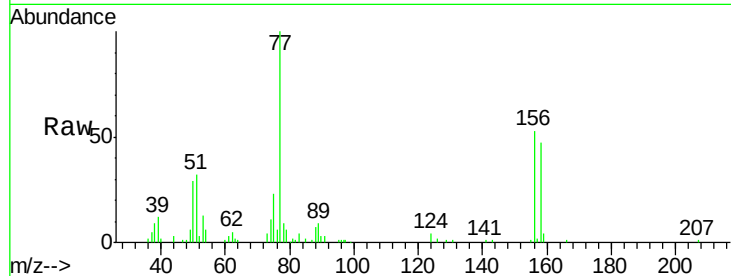
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	230.6	109.0	327.0	
158	97.9	48.9	146.8	

Manual Integrations
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#78

n-propylbenzene

Concen: 4.238 ug/l

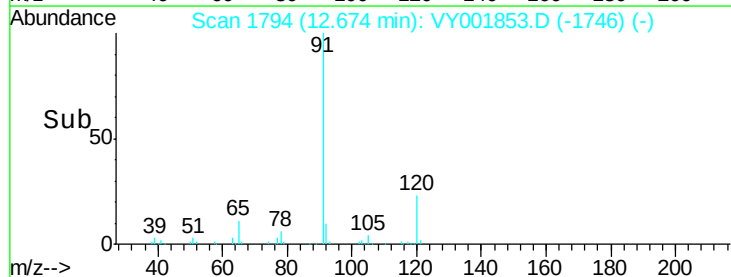
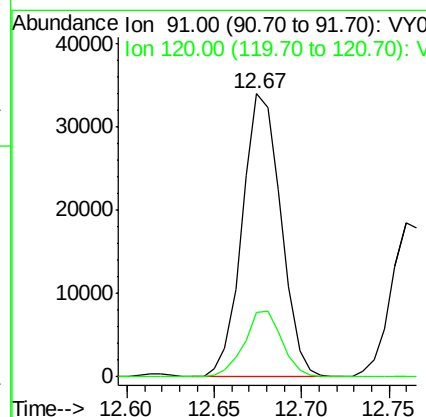
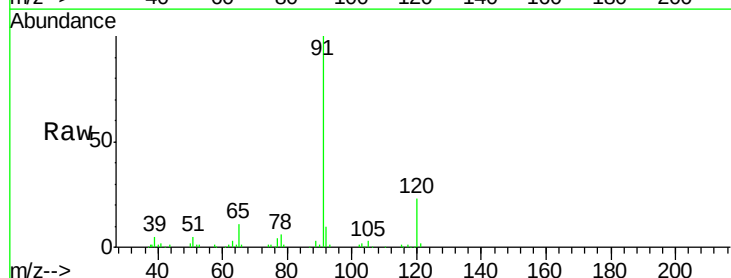
RT: 12.67 min Scan# 1794

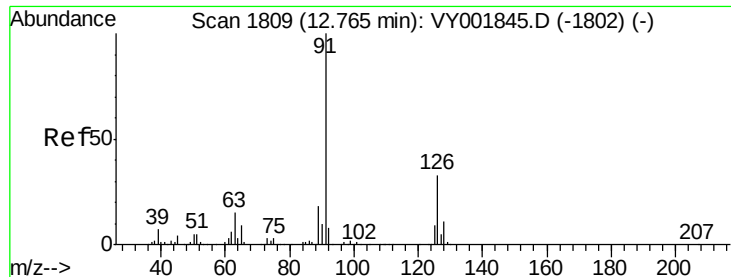
Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.5	11.0	33.0	





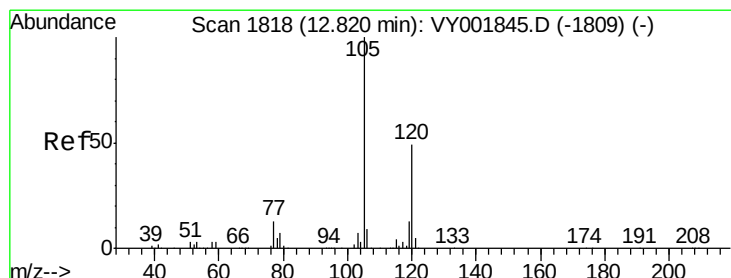
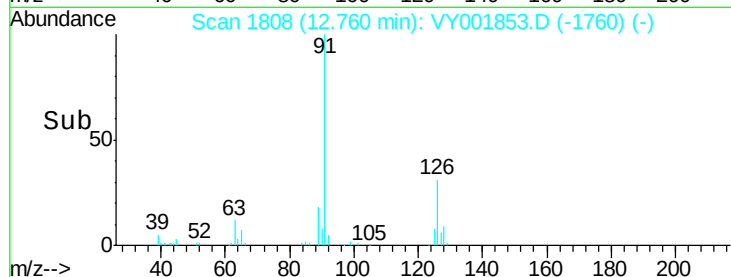
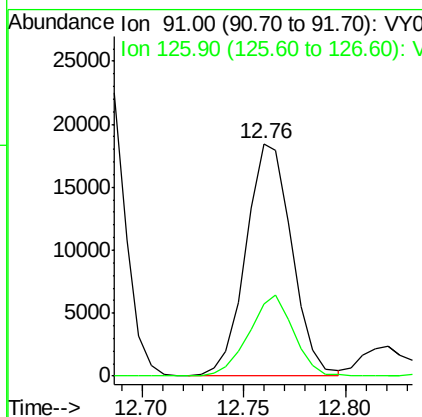
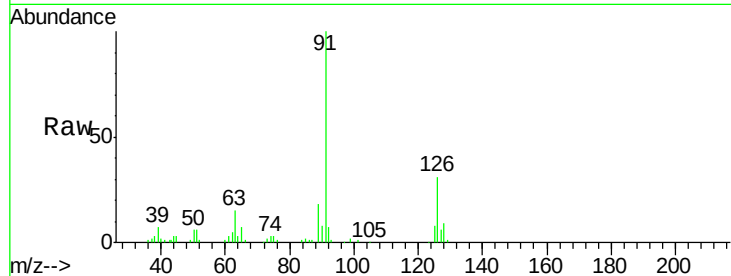
#79
2-Chlorotoluene
Concen: 4.238 ug/l
RT: 12.76 min Scan# 1808
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 91 Resp: 28888
Ion Ratio Lower Upper
91 100
126 33.7 16.3 48.8

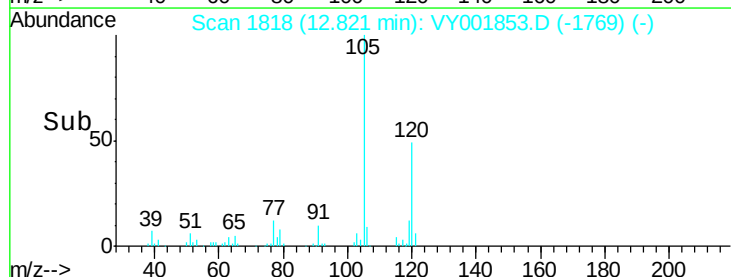
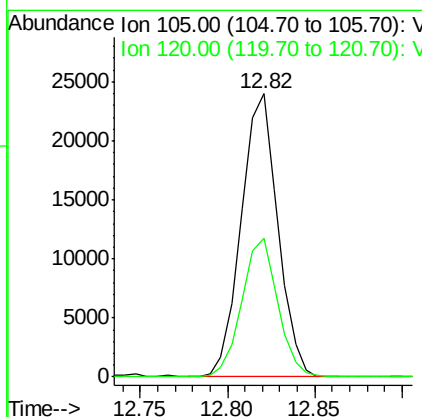
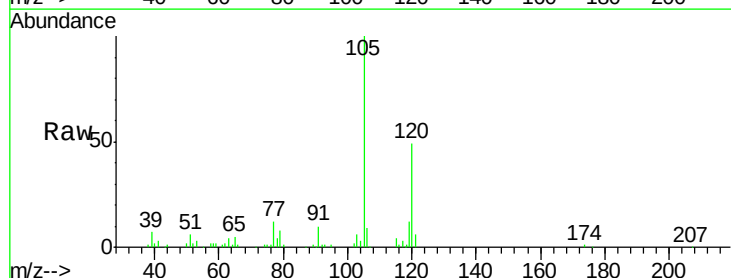
Manual Integrations
APPROVED

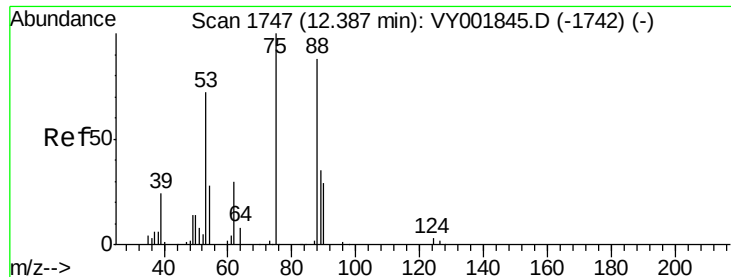
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 4.238 ug/l
RT: 12.82 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion: 105 Resp: 34892
Ion Ratio Lower Upper
105 100
120 48.1 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 3.692 ug/l

RT: 12.38 min Scan# 1746

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

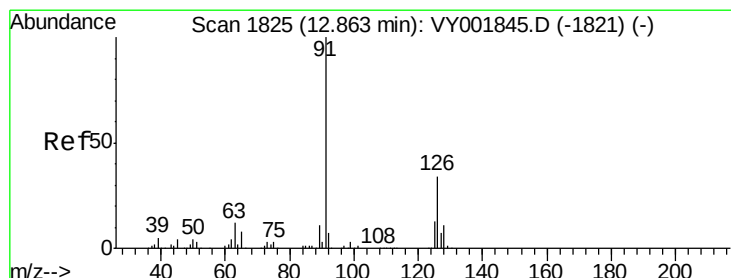
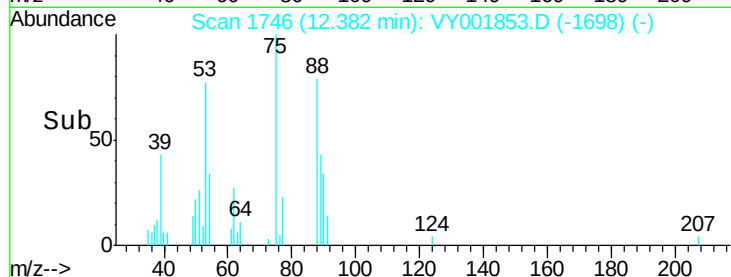
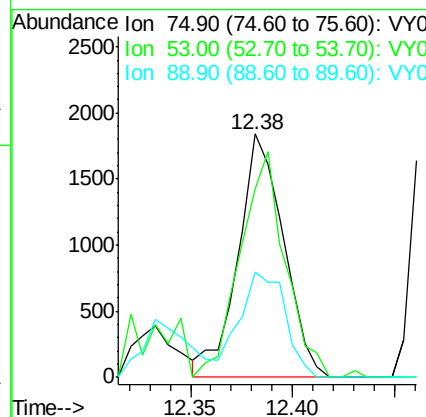
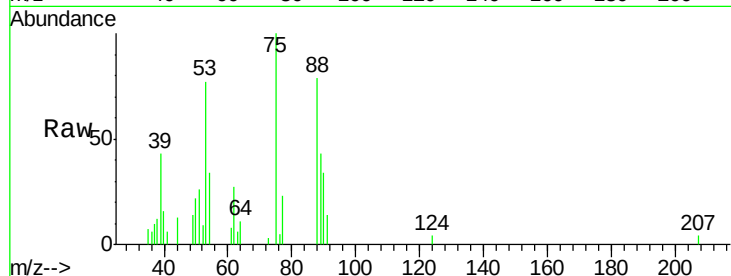
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	75	Resp:	2841
Ion Ratio	Lower	Upper	
75	100		
53	91.9	65.4	98.0
89	43.0	36.0	54.0

Manual Integrations
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3/5/2020 1:37:25 PM



#82

4-Chlorotoluene

Concen: 4.277 ug/l

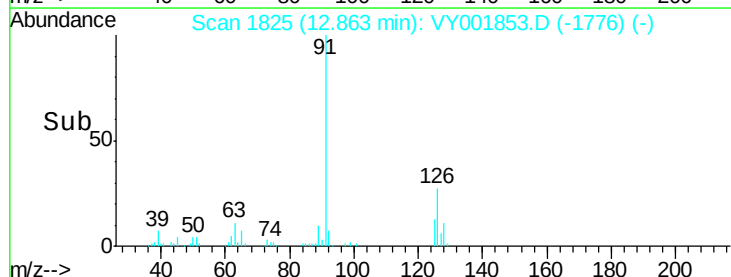
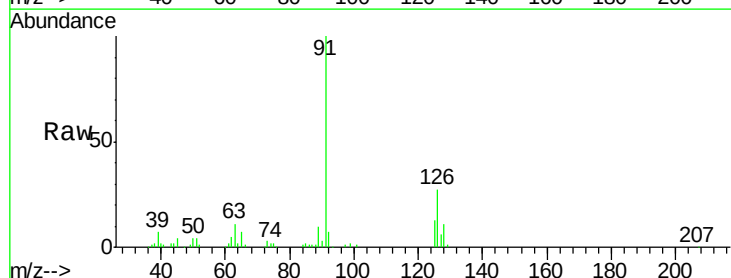
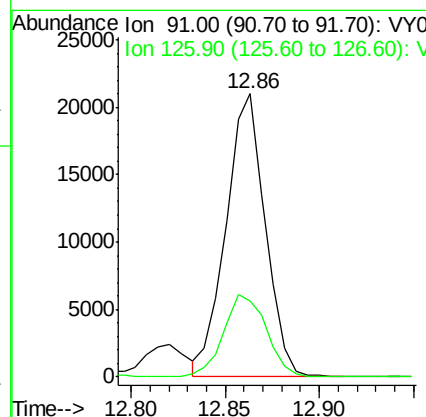
RT: 12.86 min Scan# 1825

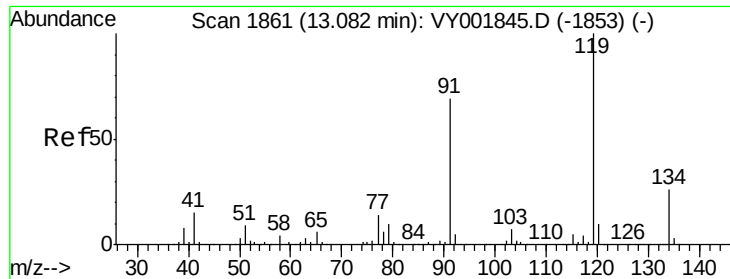
Delta R.T. 0.00 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion:	91	Resp:	30349
Ion Ratio	Lower	Upper	
91	100		
126	31.5	16.4	49.2





#83

tert-Butylbenzene

Concen: 4.262 ug/l

RT: 13.08 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

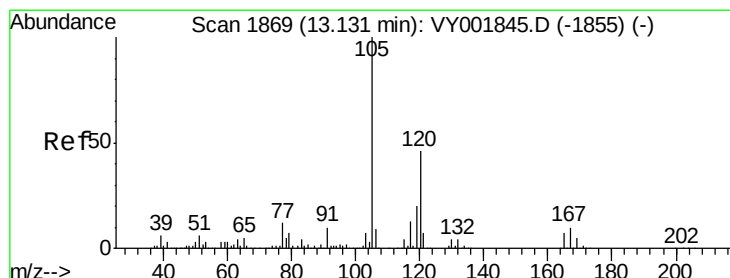
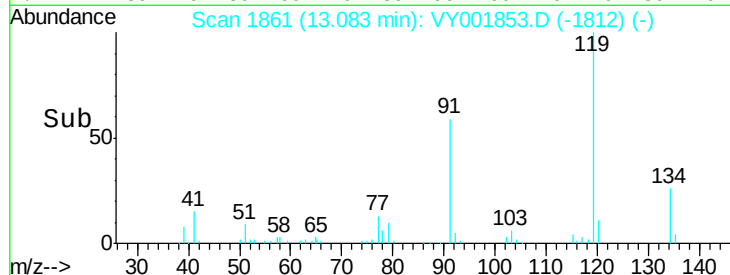
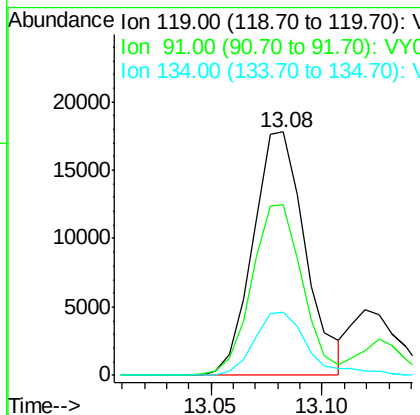
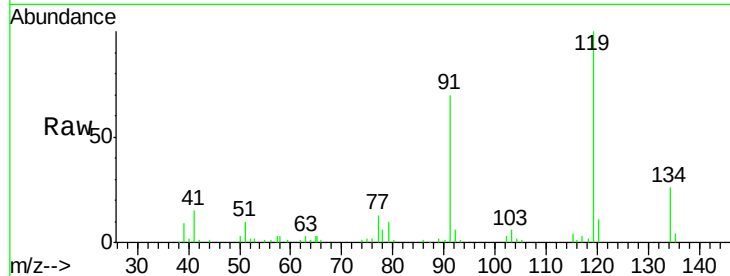
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	119	Resp:	29141
Ion Ratio	Lower	Upper	
119	100		
91	67.8	34.0	101.8
134	26.7	13.5	40.4

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 4.203 ug/l

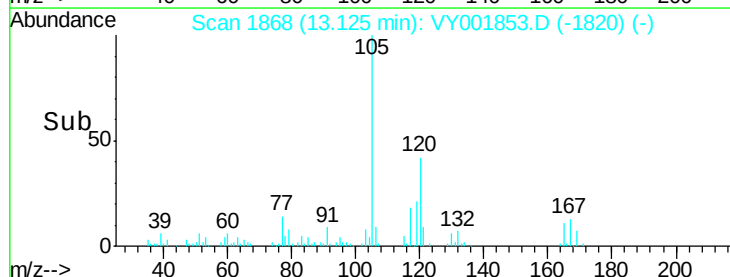
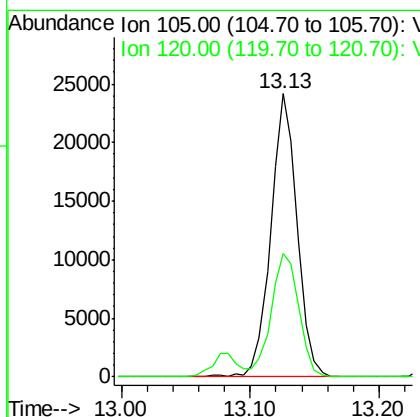
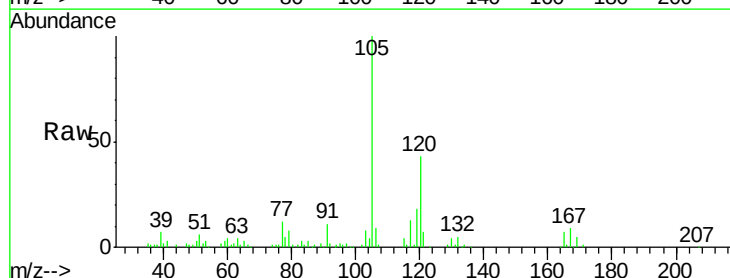
RT: 13.13 min Scan# 1868

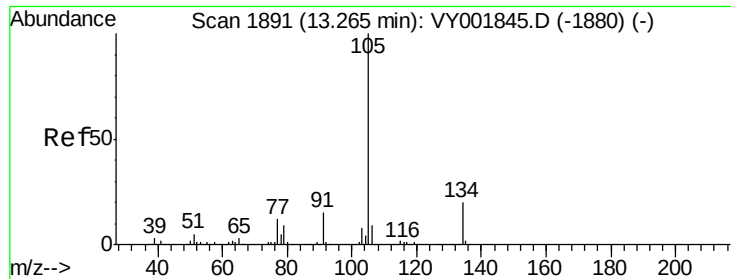
Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Tgt Ion:	105	Resp:	34339
Ion Ratio	Lower	Upper	
105	100		
120	45.6	22.6	67.7





#85

sec-Butylbenzene

Concen: 4.282 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:105 Resp: 43160

Ion Ratio Lower Upper

105 100

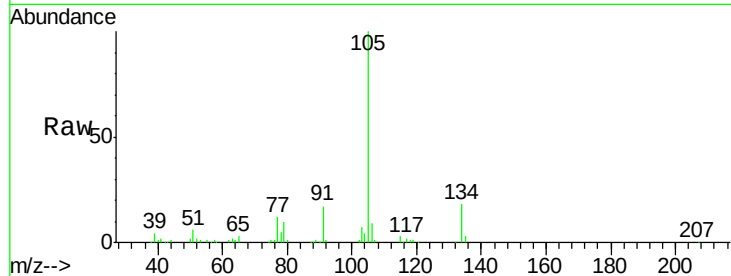
134 19.2 9.7 29.1

Manual Integrations

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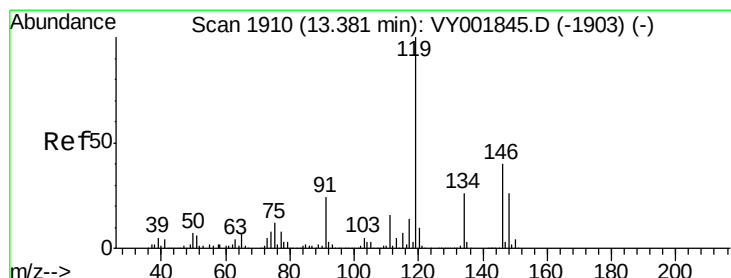
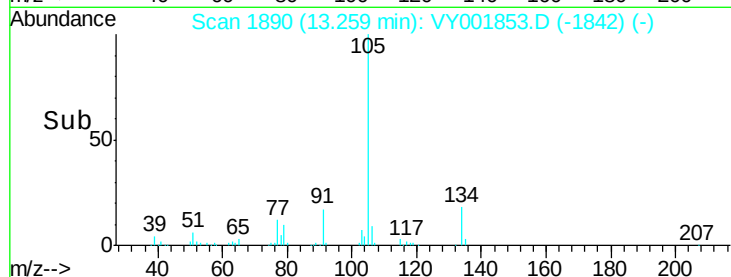
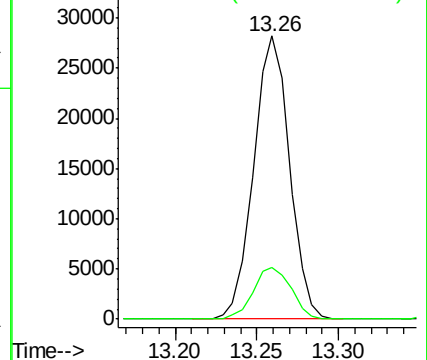
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.247 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.01 min

Lab File: VY001853.D

Acq: 04 Mar 2020 15:06

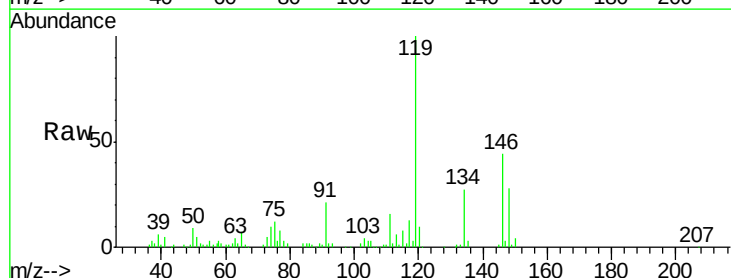
Tgt Ion:119 Resp: 36922

Ion Ratio Lower Upper

119 100

134 27.5 13.1 39.3

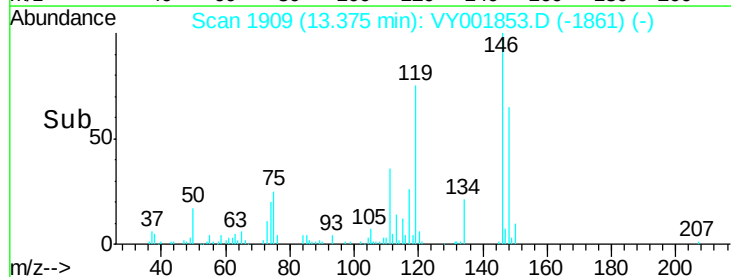
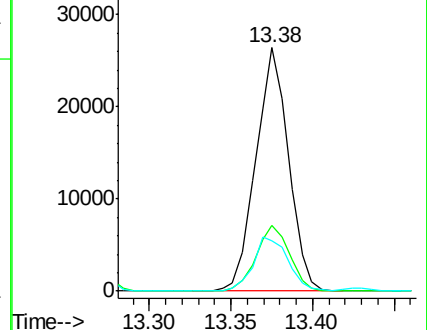
91 23.6 11.9 35.7

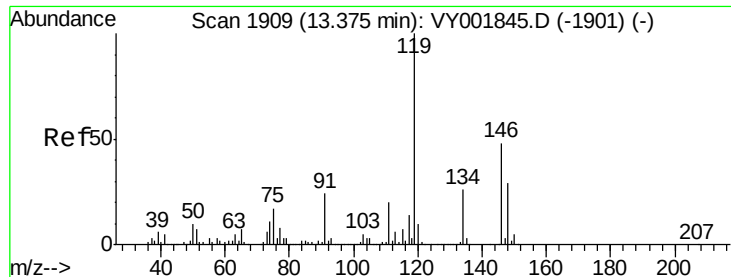


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





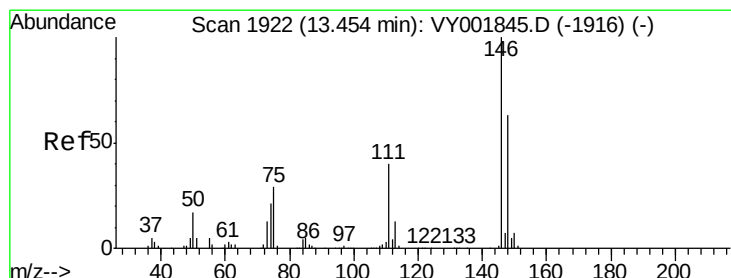
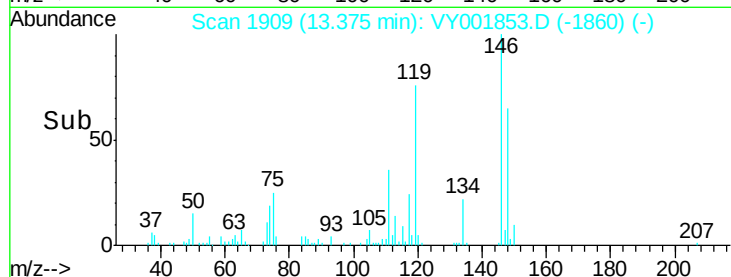
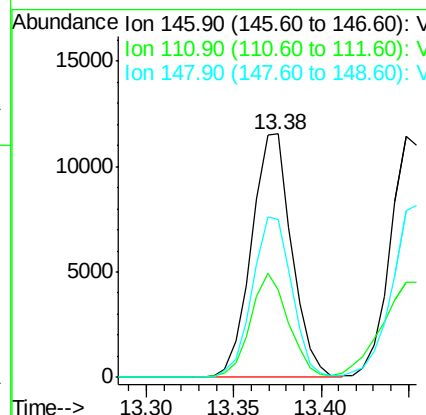
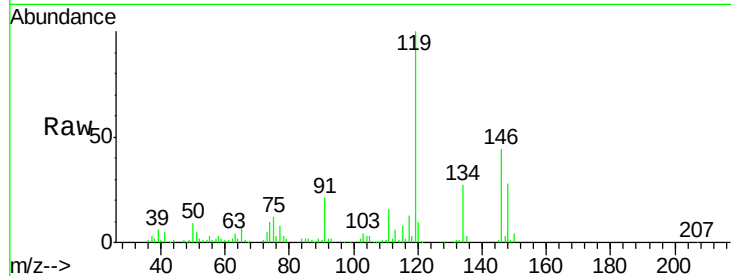
#87
 1,3-Dichlorobenzene
 Concen: 4.464 ug/l
 RT: 13.38 min Scan# 1909
 Delta R.T. 0.00 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.8	62.5
148	64.2	31.4	94.0

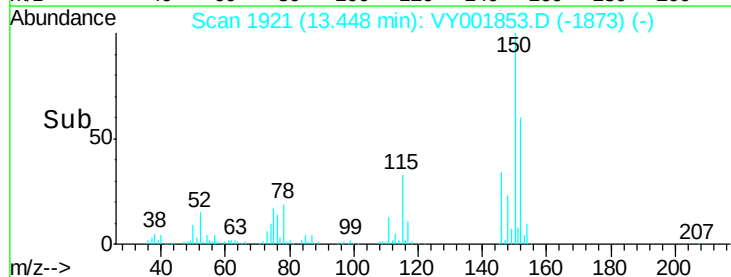
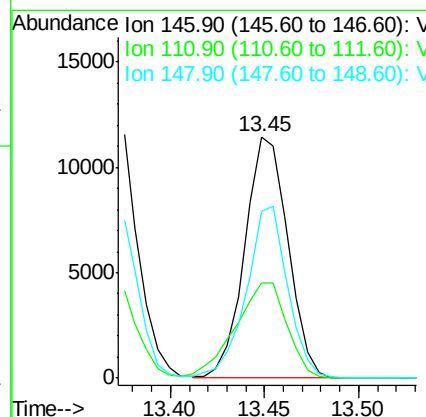
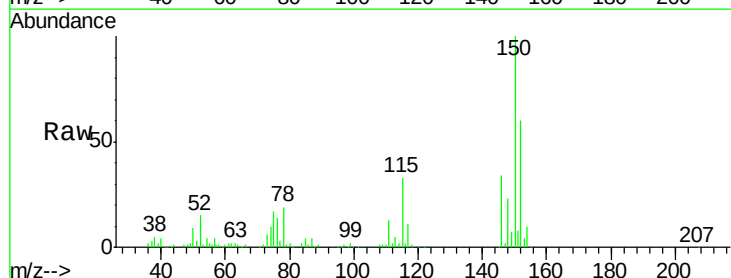
Manual Integrations
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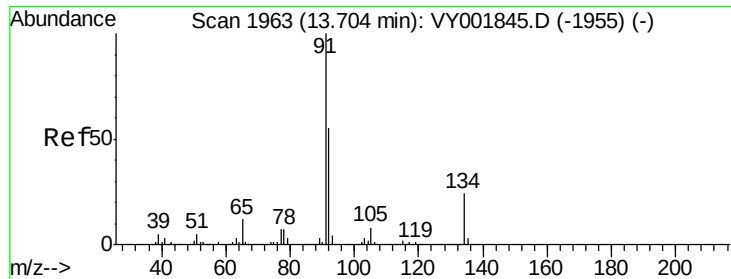
MMDadoda
 3/5/2020 1:37:25 PM



#88
 1,4-Dichlorobenzene
 Concen: 4.311 ug/l
 RT: 13.45 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.6	20.0	60.0
148	68.7	31.5	94.5





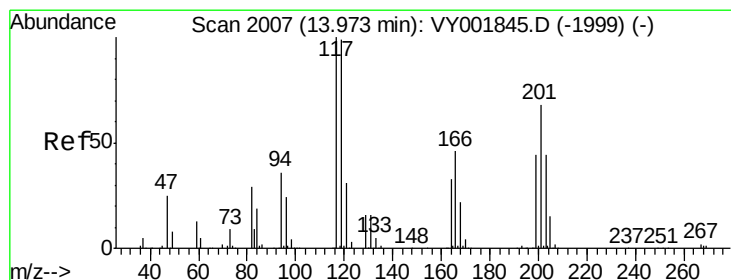
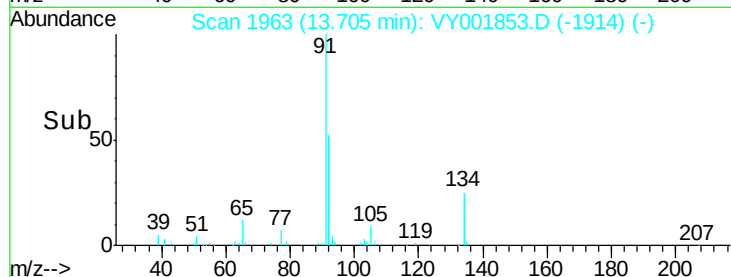
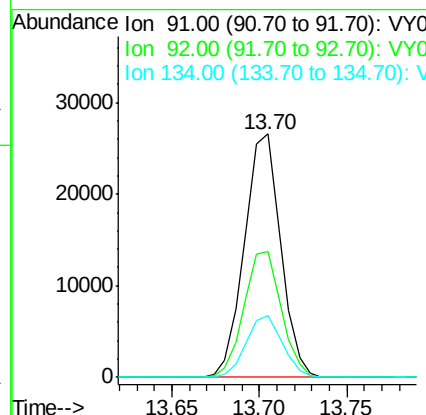
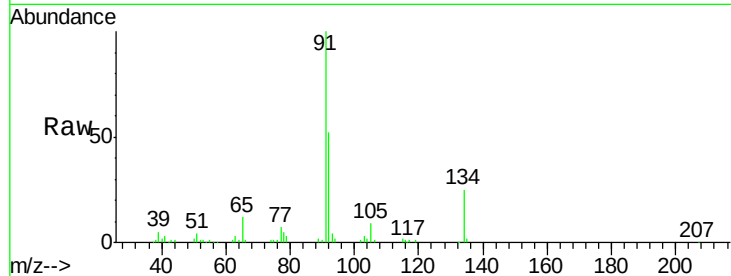
#89
n-Butylbenzene
Concen: 4.265 ug/l
RT: 13.70 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.1	27.5	82.4
134	25.3	12.5	37.5

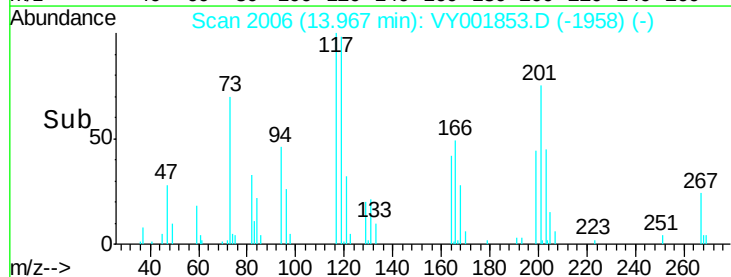
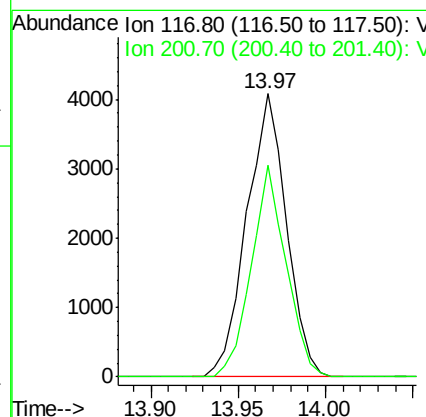
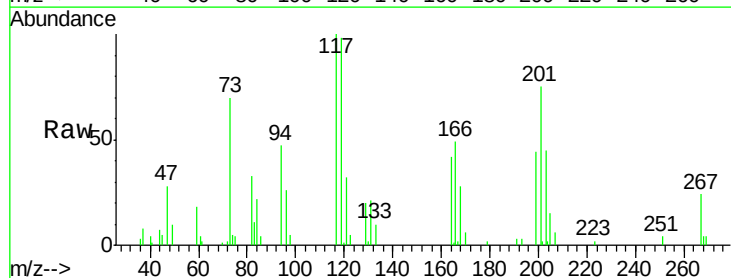
Manual Integrations
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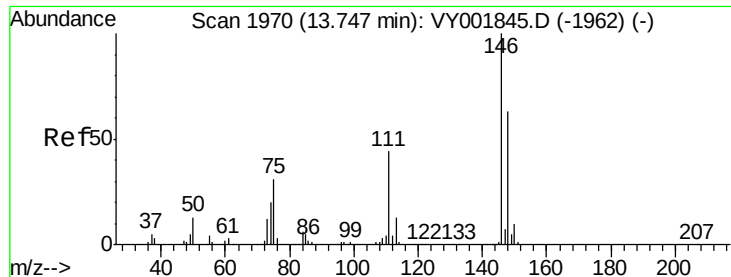
MMDadoda
3/5/2020 1:37:25 PM



#90
Hexachloroethane
Concen: 3.926 ug/l
RT: 13.97 min Scan# 2006
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	65.4	32.5	97.5





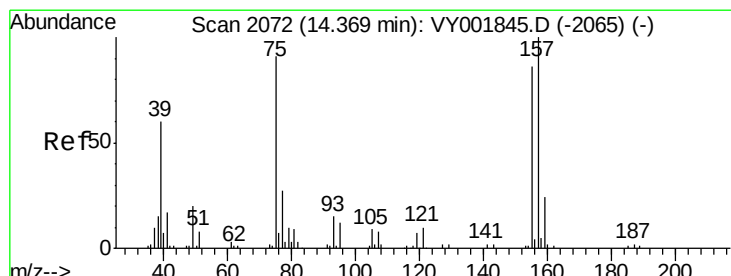
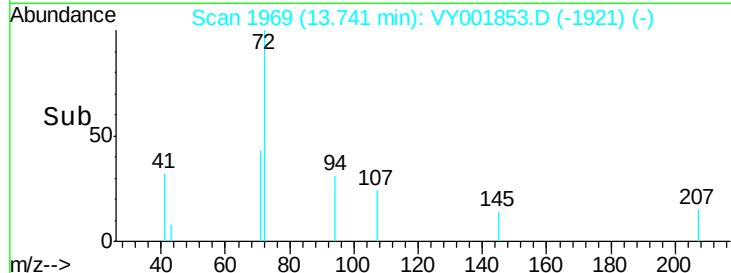
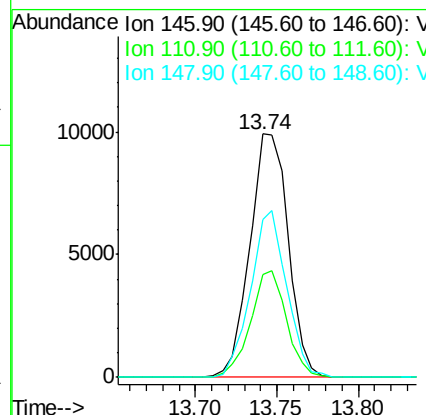
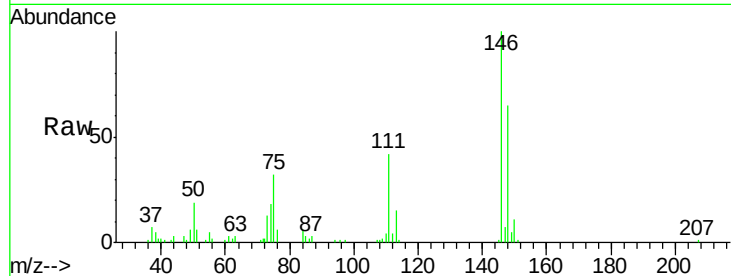
#91
 1,2-Dichlorobenzene
 Concen: 4.310 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.5	64.5
148	64.6	32.0	96.0

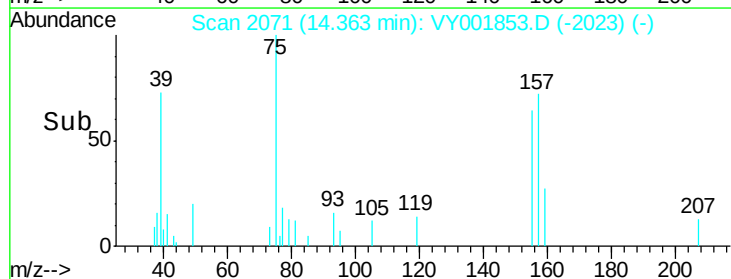
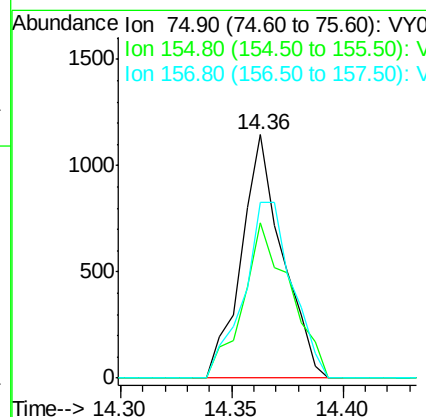
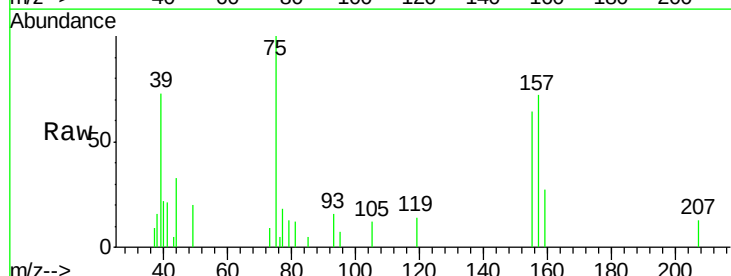
Manual Integrations
 APPROVED

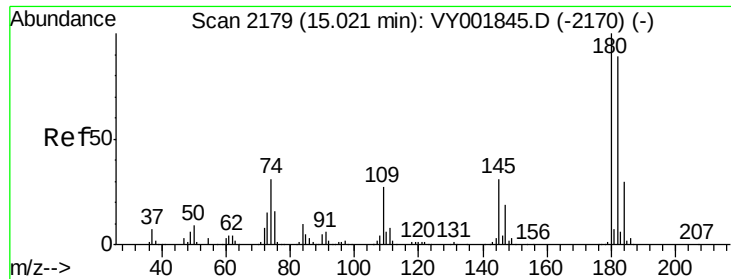
MMDadoda
 3/5/2020 1:37:25 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.372 ug/l
 RT: 14.36 min Scan# 2071
 Delta R.T. -0.01 min
 Lab File: VY001853.D
 Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.8	42.9	128.7
157	84.8	53.1	159.4





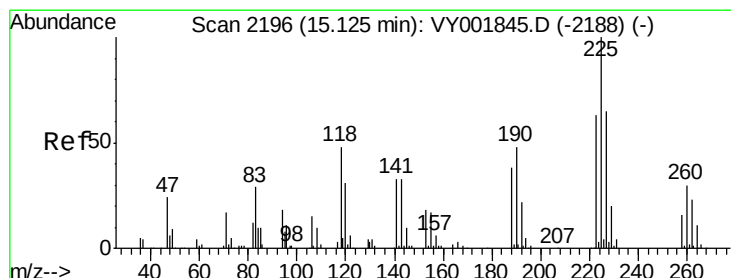
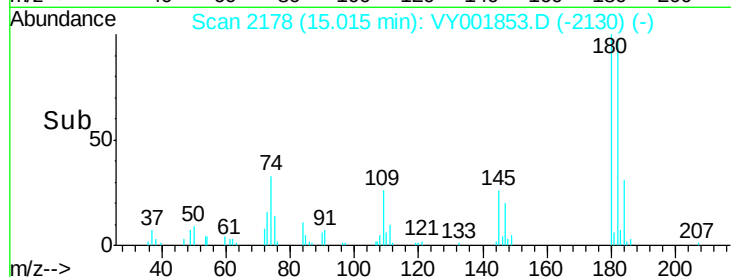
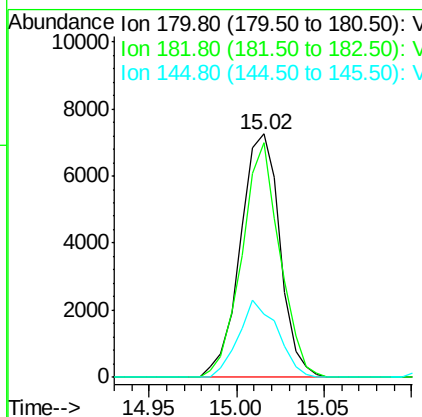
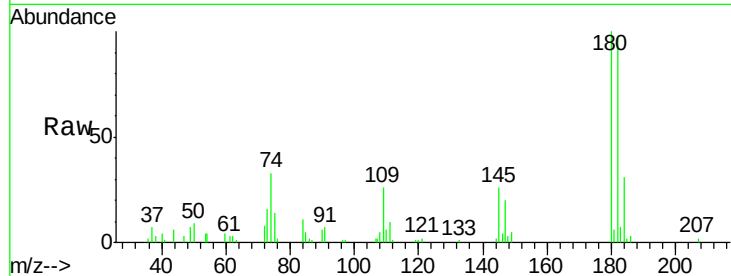
#93
1,2,4-Trichlorobenzene
Concen: 4.670 ug/l
RT: 15.02 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.2	46.1	138.3
145	31.4	15.6	46.8

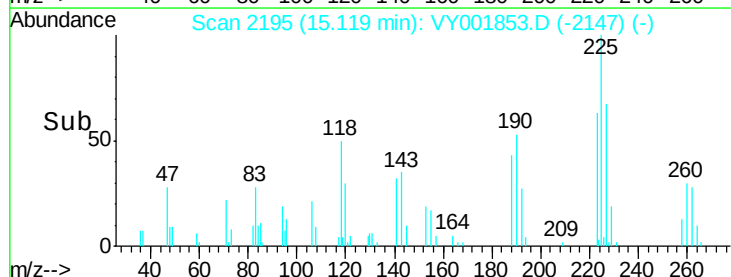
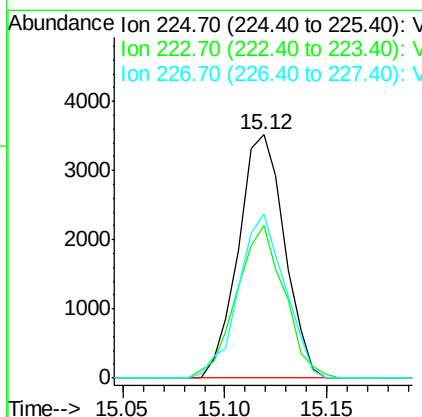
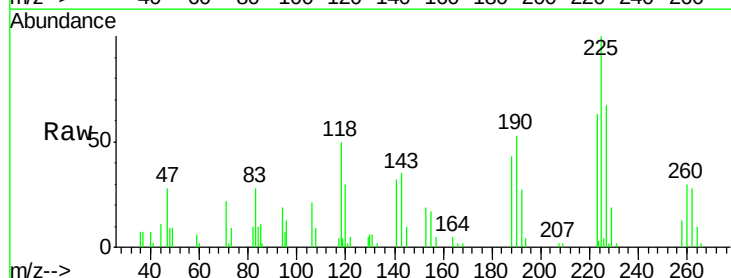
Manual Integrations
APPROVED

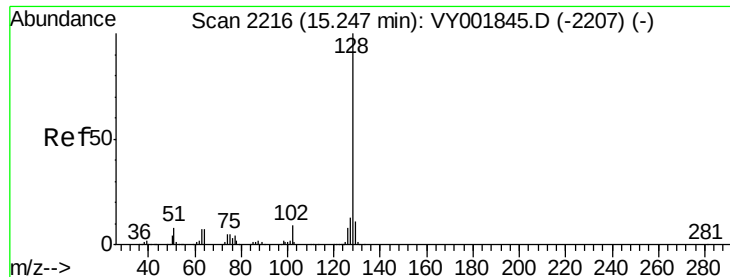
MMDadoda
3/5/2020 1:37:25 PM



#94
Hexachlorobutadiene
Concen: 4.639 ug/l
RT: 15.12 min Scan# 2195
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.5	94.5
227	67.8	31.9	95.5





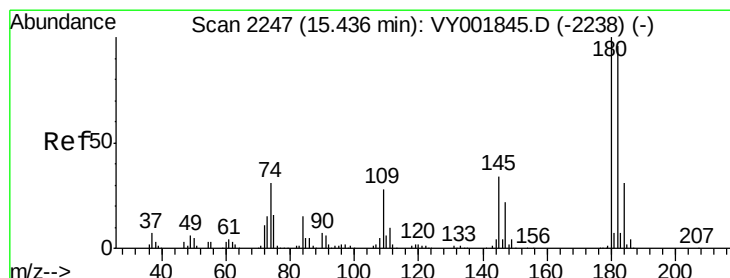
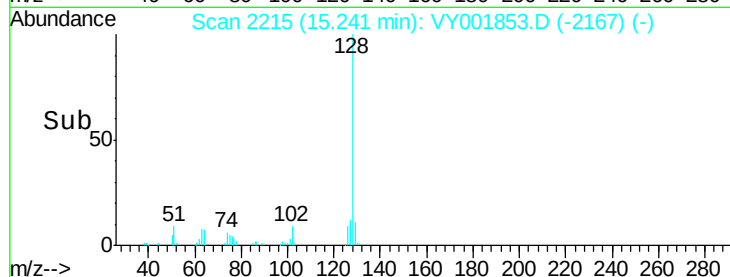
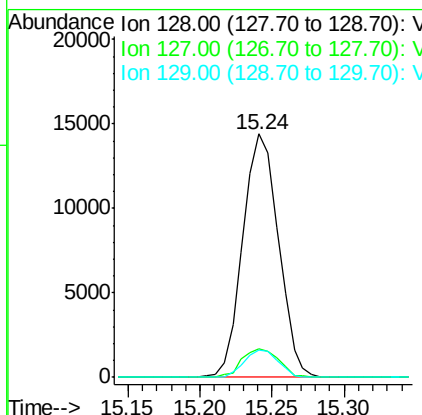
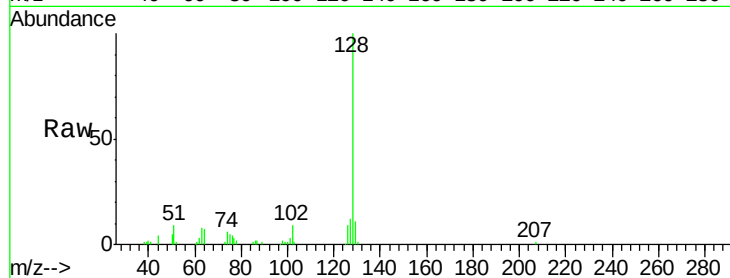
#95
Naphthalene
Concen: 4.264 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.1	15.1
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/5/2020 1:37:25 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.369 ug/l
RT: 15.43 min Scan# 2246
Delta R.T. -0.01 min
Lab File: VY001853.D
Acq: 04 Mar 2020 15:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.1	47.6	142.9
145	34.4	16.8	50.3

