

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070820\
 Data File : VD065939.D
 Acq On : 08 Jul 2020 14:43
 Operator : VA/SY
 Sample : L3216-03 2.5PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 10:48:19 AM

Quant Time: Jul 09 01:39:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 09 01:34:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	398895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	602868	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	562535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	271541	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	168165	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
35) Dibromofluoromethane	7.91	113	179464	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
50) Toluene-d8	10.34	98	646100	47.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.22%	
62) 4-Bromofluorobenzene	12.63	95	223032	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.99	85	11103	3.131	ug/l	98
3) Chloromethane	2.20	50	9162	2.606	ug/l	96
4) Vinyl Chloride	2.35	62	8936	2.768	ug/l	95
5) Bromomethane	2.77	94	6442	3.151	ug/l	83
6) Chloroethane	2.93	64	5900	3.058	ug/l	97
7) Trichlorofluoromethane	3.27	101	20378	2.946	ug/l	99
8) Diethyl Ether	3.70	74	5174	2.726	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.10	101	11707	2.829	ug/l #	84
10) Methyl Iodide	4.30	142	10054	2.558	ug/l #	96
11) Tert butyl alcohol	5.19	59	6800	26.823	ug/l #	81
12) 1,1-Dichloroethene	4.06	96	11215	2.901	ug/l	96
13) Acrolein	3.92	56	3132	15.017	ug/l	98
14) Allyl chloride	4.71	41	16157	2.466	ug/l	97
15) Acrylonitrile	5.42	53	10928	13.151	ug/l	97
16) Acetone	4.16	43	13642	16.466	ug/l #	89
17) Carbon Disulfide	4.40	76	33891	2.751	ug/l	99
18) Methyl Acetate	4.72	43	6402	3.297	ug/l #	83
19) Methyl tert-butyl Ether	5.47	73	20590	2.516	ug/l	94
20) Methylene Chloride	4.96	84	46283	7.864	ug/l	97
21) trans-1,2-Dichloroethene	5.48	96	12335	2.836	ug/l	87
22) Diisopropyl ether	6.36	45	30908	2.510	ug/l	96
23) Vinyl Acetate	6.30	43	75877	10.797	ug/l	97
24) 1,1-Dichloroethane	6.26	63	19428	2.646	ug/l	93
25) 2-Butanone	7.21	43	15694	14.336	ug/l #	79
26) 2,2-Dichloropropane	7.20	77	19689	3.066	ug/l	98
27) cis-1,2-Dichloroethene	7.20	96	12512	2.677	ug/l	95
28) Bromochloromethane	7.55	49	7978	2.877	ug/l	94
29) Tetrahydrofuran	7.57	42	8518	12.236	ug/l #	65
30) Chloroform	7.70	83	19378	2.604	ug/l	93
31) Cyclohexane	7.98	56	25504	3.531	ug/l #	56
32) 1,1,1-Trichloroethane	7.90	97	18128	2.669	ug/l	95
36) 1,1-Dichloropropene	8.11	75	17757	2.982	ug/l	97
37) Ethyl Acetate	7.29	43	6399	2.565	ug/l #	79
38) Carbon Tetrachloride	8.10	117	18103	2.837	ug/l	87

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070820\
 Data File : VD065939.D
 Acq On : 08 Jul 2020 14:43
 Operator : VA/SY
 Sample : L3216-03 2.5PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 10:48:19 AM

Quant Time: Jul 09 01:39:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 09 01:34:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	19162	2.621	ug/l	90
40) Benzene	8.34	78	44474	2.704	ug/l	94
41) Methacrylonitrile	7.53	41	3991	2.755	ug/l	91
42) 1,2-Dichloroethane	8.42	62	12964	2.782	ug/l	95
43) Isopropyl Acetate	8.44	43	11774	2.535	ug/l #	61
44) Trichloroethene	9.10	130	13003	2.690	ug/l	87
45) 1,2-Dichloropropane	9.38	63	10595	2.595	ug/l	97
46) Dibromomethane	9.48	93	5629	2.648	ug/l	93
47) Bromodichloromethane	9.66	83	14254	2.500	ug/l	94
48) Methyl methacrylate	9.45	41	5535	2.368	ug/l	94
49) 1,4-Dioxane	9.46	88	1273	50.405	ug/l #	76
51) 4-Methyl-2-Pentanone	10.23	43	28068	11.955	ug/l	97
52) Toluene	10.40	92	29755	2.843	ug/l	93
53) t-1,3-Dichloropropene	10.61	75	13981	2.608	ug/l	96
54) cis-1,3-Dichloropropene	10.08	75	15301	2.362	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	8323	2.842	ug/l #	91
56) Ethyl methacrylate	10.66	69	8975	2.509	ug/l	95
57) 1,3-Dichloropropane	10.94	76	13253	2.588	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.94	63	23163	13.371	ug/l	95
59) 2-Hexanone	10.98	43	19816	12.273	ug/l	100
60) Dibromochloromethane	11.14	129	10361	2.590	ug/l	99
61) 1,2-Dibromoethane	11.25	107	7364	2.522	ug/l	99
64) Tetrachloroethene	10.87	164	12041	2.943	ug/l	93
65) Chlorobenzene	11.67	112	31359	2.766	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.74	131	10712	2.526	ug/l	91
67) Ethyl Benzene	11.74	91	52557	2.610	ug/l	100
68) m/p-Xylenes	11.86	106	38335	5.010	ug/l	96
69) o-Xylene	12.18	106	17641	2.531	ug/l	98
70) Styrene	12.20	104	29932	2.488	ug/l	97
71) Bromoform	12.36	173	6453	2.690	ug/l #	94
73) Isopropylbenzene	12.48	105	48358	2.552	ug/l	99
74) N-amyl acetate	12.29	43	9256	2.177	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.73	83	8451	2.686	ug/l	99
76) 1,2,3-Trichloropropane	12.78	75	7115m	3.124	ug/l	
77) Bromobenzene	12.76	156	12439	2.706	ug/l	98
78) n-propylbenzene	12.82	91	60067	2.704	ug/l	99
79) 2-Chlorotoluene	12.91	91	34845	2.764	ug/l	96
80) 1,3,5-Trimethylbenzene	12.96	105	39301	2.535	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	2257m	2.129	ug/l	
82) 4-Chlorotoluene	13.01	91	36057	2.727	ug/l	98
83) tert-Butylbenzene	13.23	119	34008	2.575	ug/l	96
84) 1,2,4-Trimethylbenzene	13.27	105	38223	2.477	ug/l	99
85) sec-Butylbenzene	13.40	105	48991	2.618	ug/l	100
86) p-Isopropyltoluene	13.52	119	43405	2.536	ug/l	97
87) 1,3-Dichlorobenzene	13.52	146	25065	2.914	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	24189	2.819	ug/l	86
89) n-Butylbenzene	13.85	91	40858	2.542	ug/l	98
90) Hexachloroethane	14.11	117	9199	2.665	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	20209	2.688	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.50	75	1295	2.462	ug/l	88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070820\
Data File : VD065939.D
Acq On : 08 Jul 2020 14:43
Operator : VA/SY
Sample : L3216-03 2.5PPBMDL
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

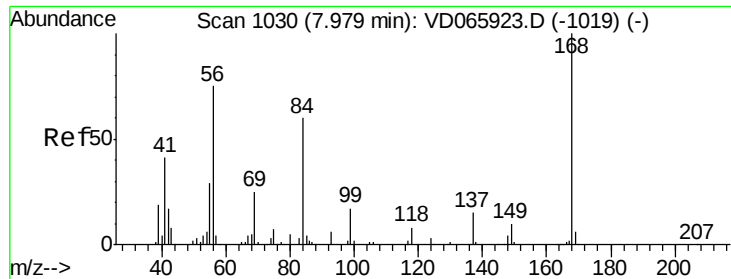
Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM

Quant Time: Jul 09 01:39:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
Quant Title : SW846 8260
QLast Update : Thu Jul 09 01:34:51 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	14091	2.630	ug/l	98
94) Hexachlorobutadiene	15.27	225	9291	2.867	ug/l	96
95) Naphthalene	15.40	128	22686	2.525	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	13244	2.866	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:168 Resp: 398895

Ion Ratio Lower Upper

168 100

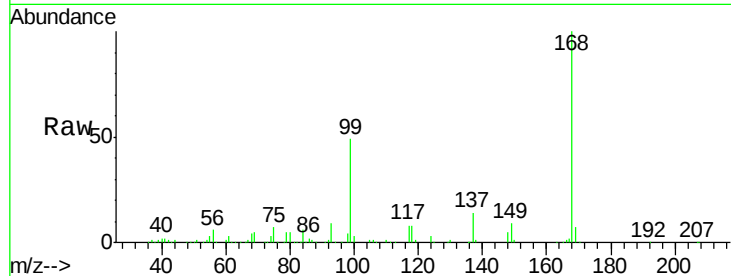
99 49.1 43.1 64.7

Manual Integrations

APPROVED

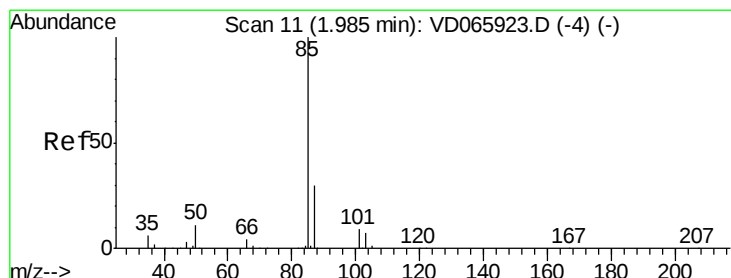
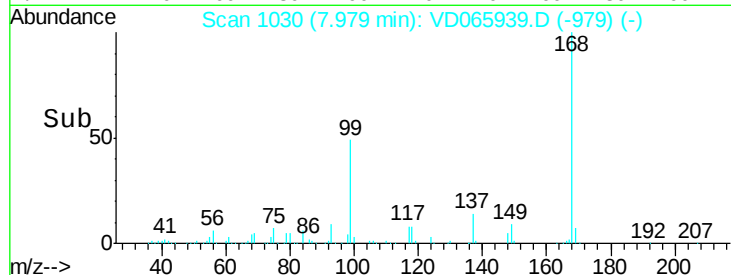
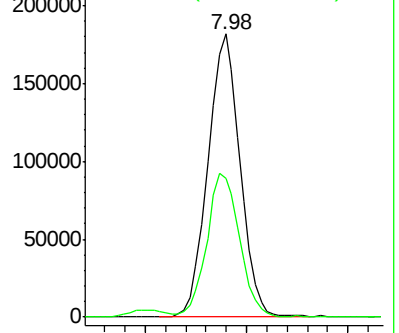
MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 3.131 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065939.D

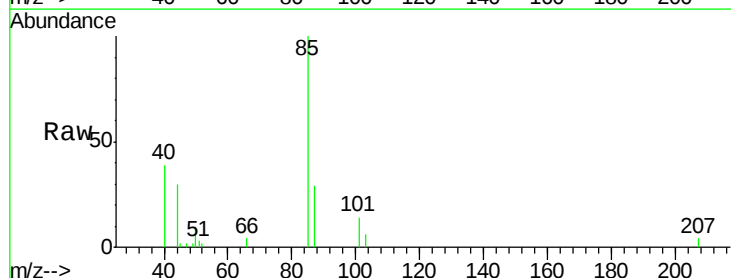
Acq: 08 Jul 2020 14:43

Tgt Ion: 85 Resp: 11103

Ion Ratio Lower Upper

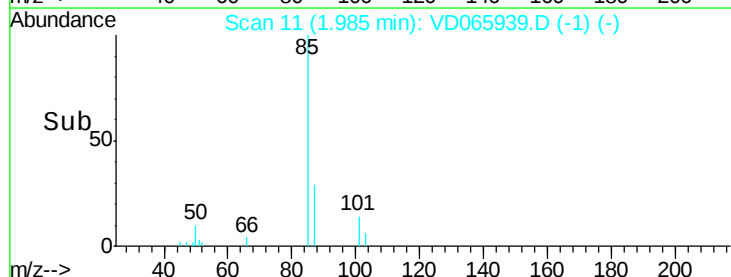
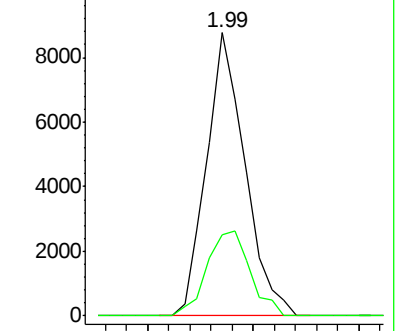
85 100

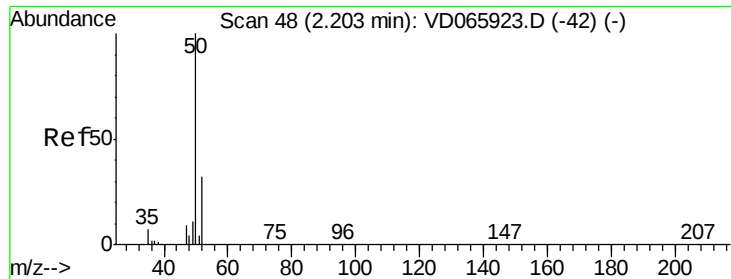
87 28.8 14.9 44.9



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 2.606 ug/l

RT: 2.20 min Scan# 48

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 50 Resp: 9162

Ion Ratio Lower Upper

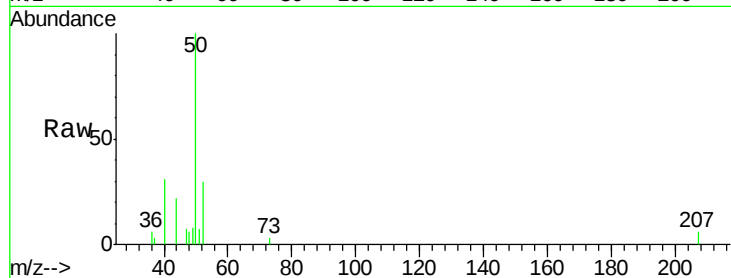
50 100

52 29.7 25.6 38.4

Manual Integrations
APPROVED

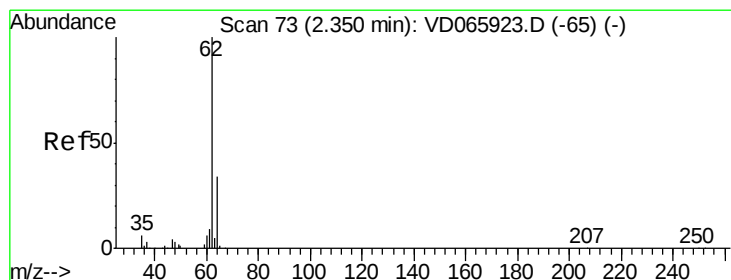
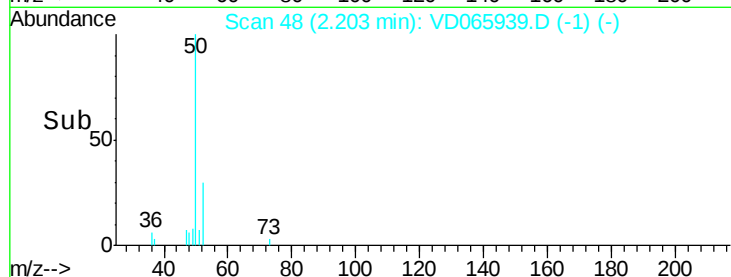
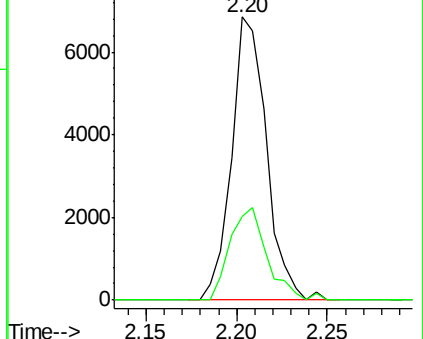
MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 2.768 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065939.D

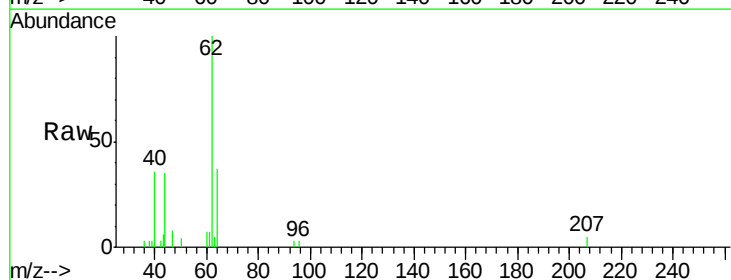
Acq: 08 Jul 2020 14:43

Tgt Ion: 62 Resp: 8936

Ion Ratio Lower Upper

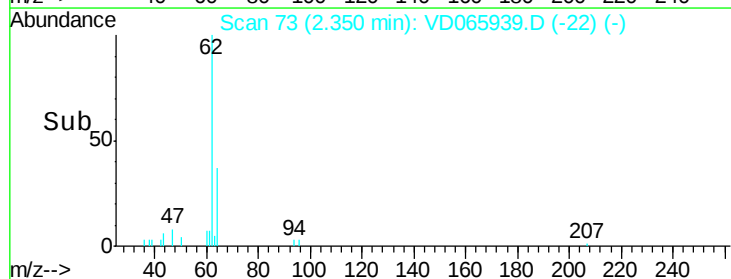
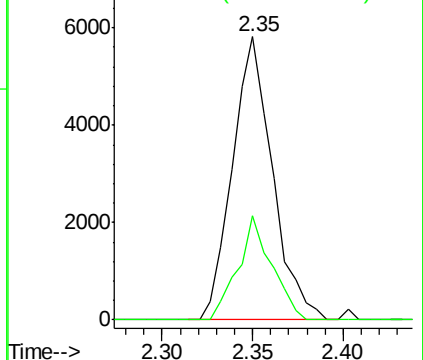
62 100

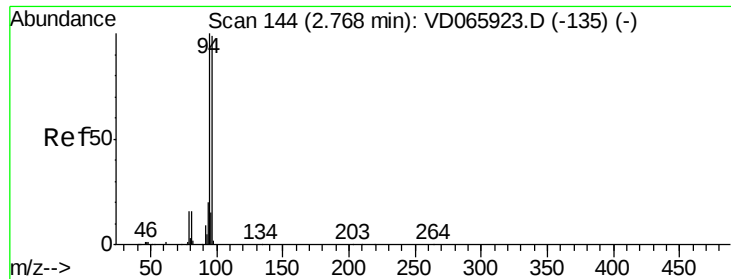
64 36.8 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 3.151 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 94 Resp: 6442

Ion Ratio Lower Upper

94 100

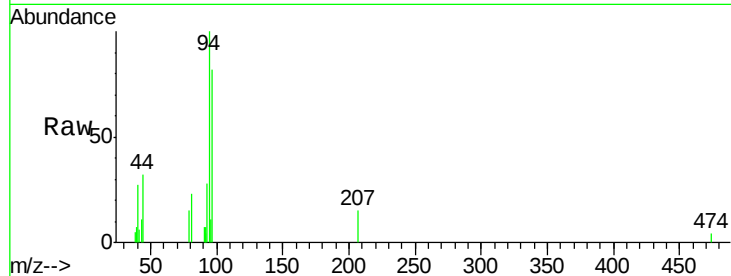
96 81.7 78.8 118.2

Manual Integrations

APPROVED

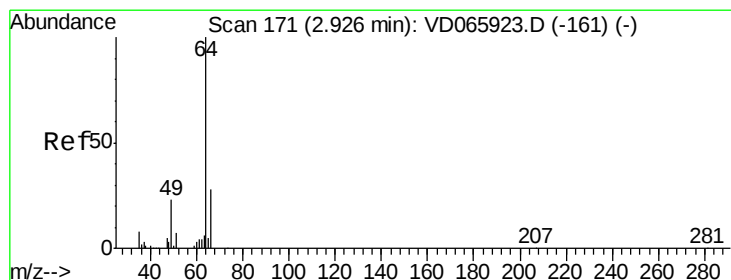
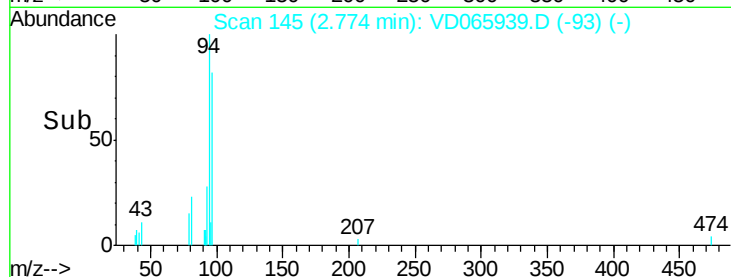
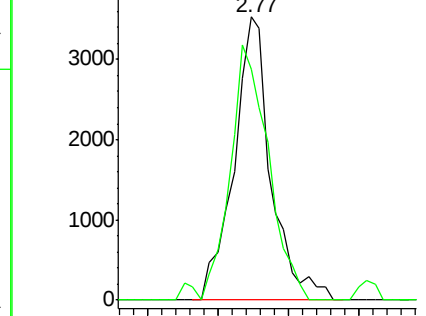
MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 3.058 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD065939.D

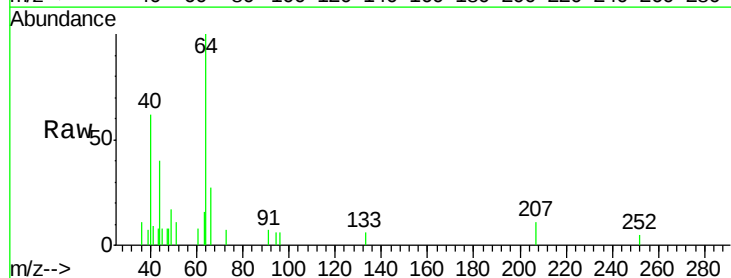
Acq: 08 Jul 2020 14:43

Tgt Ion: 64 Resp: 5900

Ion Ratio Lower Upper

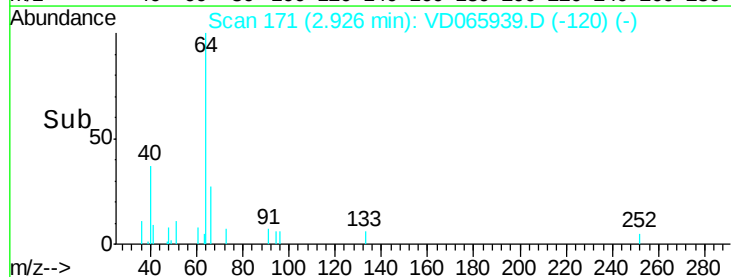
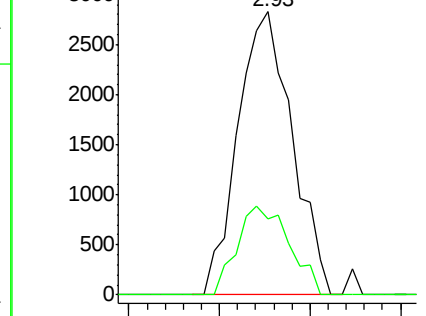
64 100

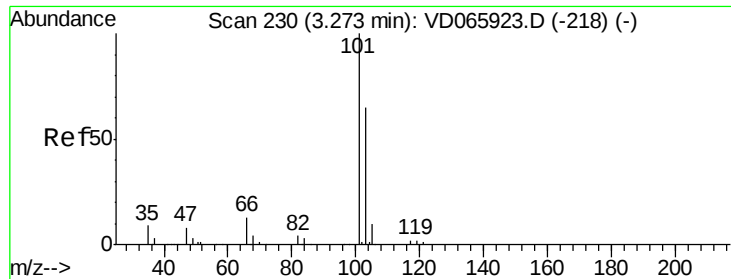
66 26.7 22.6 33.8



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

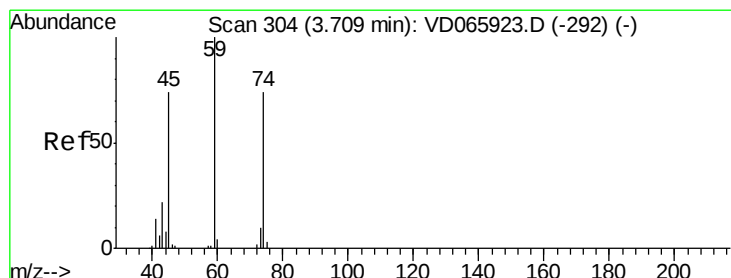
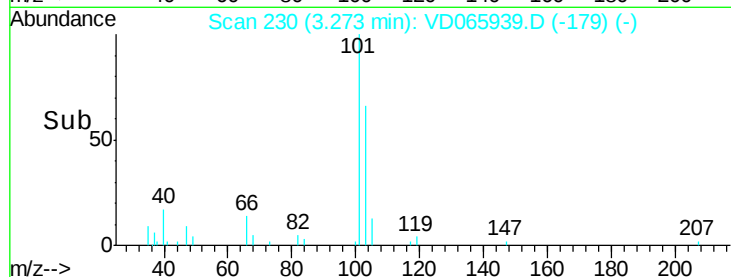
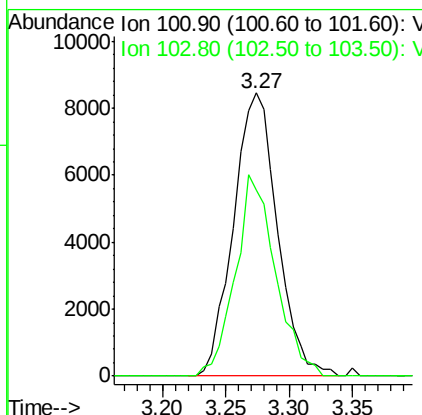
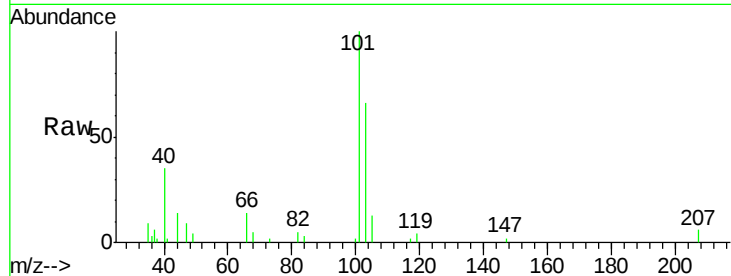
Trichlorofluoromethane
 Concen: 2.946 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion:101 Resp: 20378
 Ion Ratio Lower Upper
 101 100
 103 65.6 51.7 77.5

Manual Integrations
 APPROVED

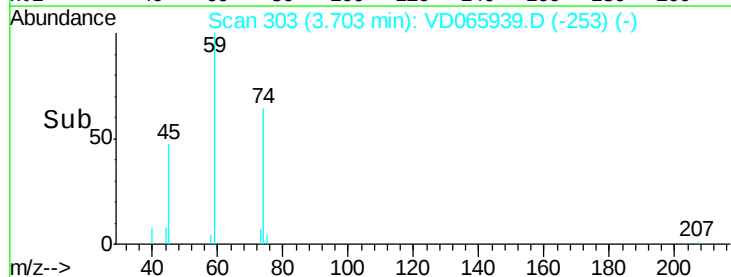
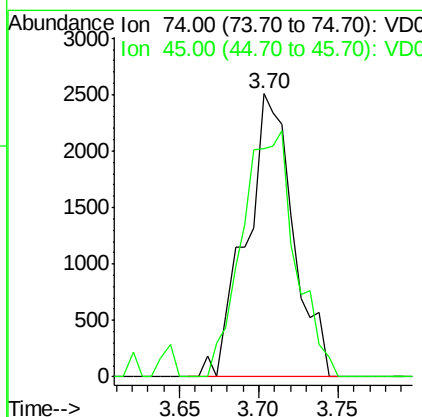
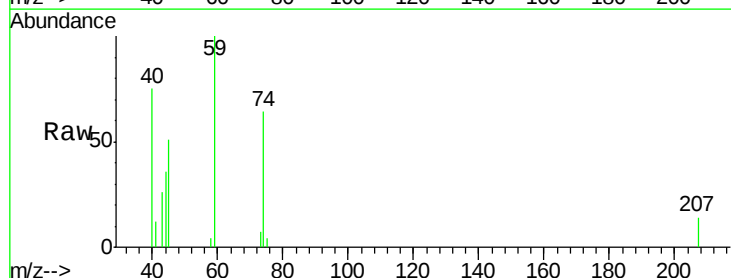
MMDadoda
 7/9/2020 10:48:19 AM

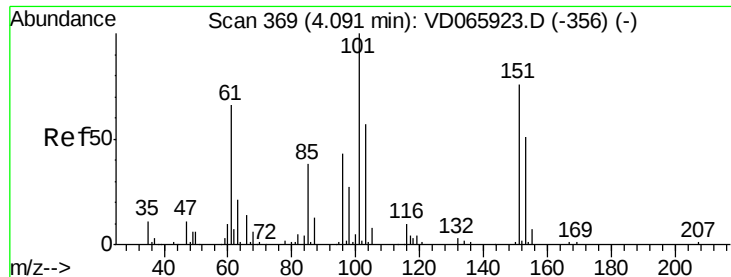


#8

Diethyl Ether
 Concen: 2.726 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 74 Resp: 5174
 Ion Ratio Lower Upper
 74 100
 45 98.6 51.1 153.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.829 ug/l

RT: 4.10 min Scan# 371

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

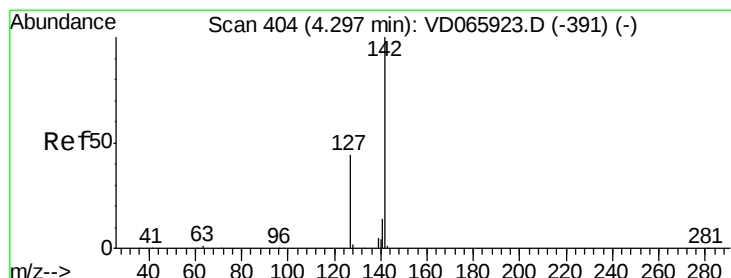
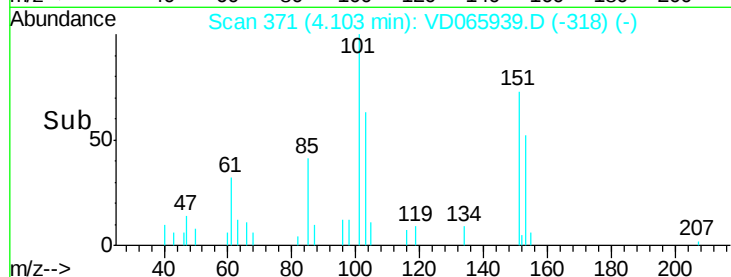
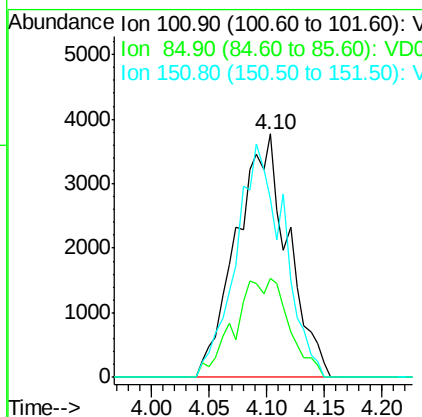
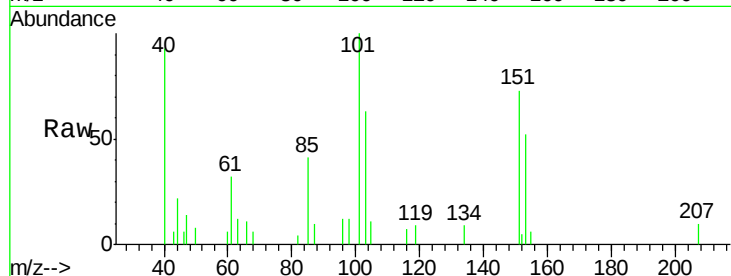
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:	101	Resp:	11707
Ion Ratio	Lower	Upper	
101	100		
85	24.6	33.8	50.8#
151	88.8	64.1	96.1

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#10

Methyl Iodide

Concen: 2.558 ug/l

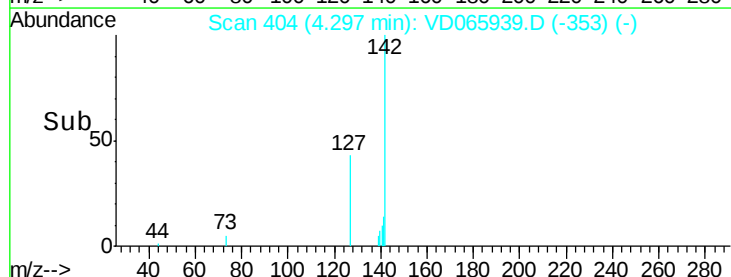
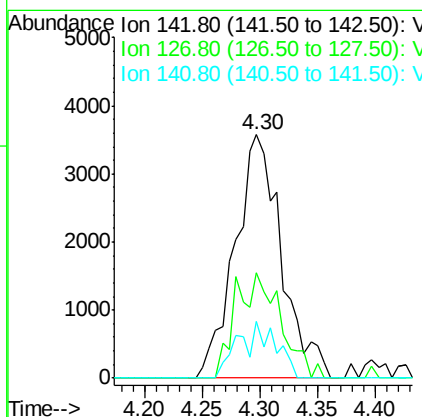
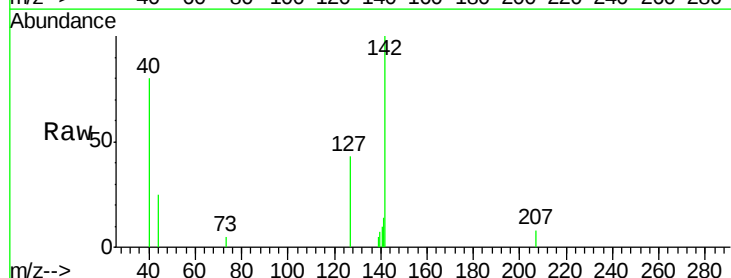
RT: 4.30 min Scan# 404

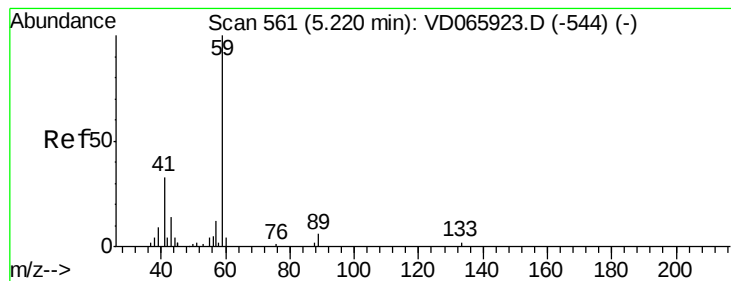
Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion:	142	Resp:	10054
Ion Ratio	Lower	Upper	
142	100		
127	41.5	34.6	51.8
141	11.0	11.6	17.4#





#11

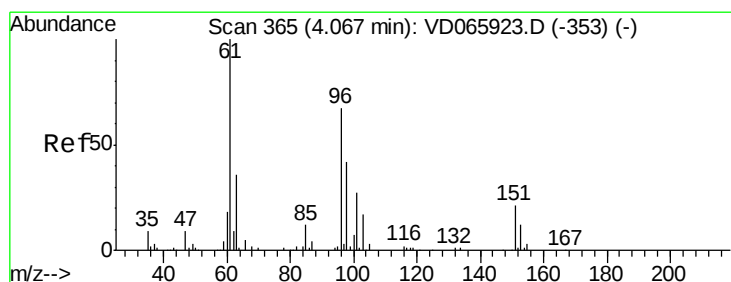
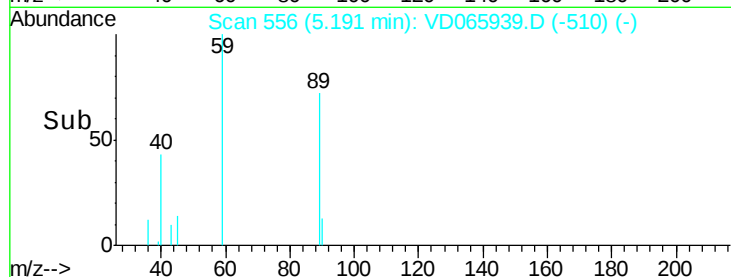
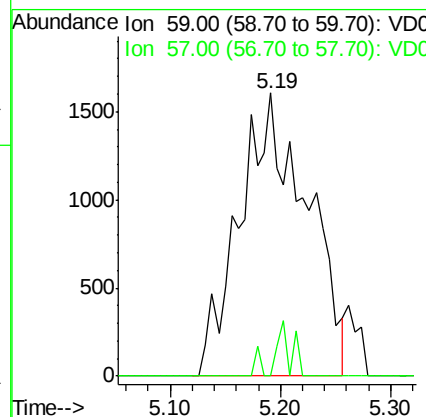
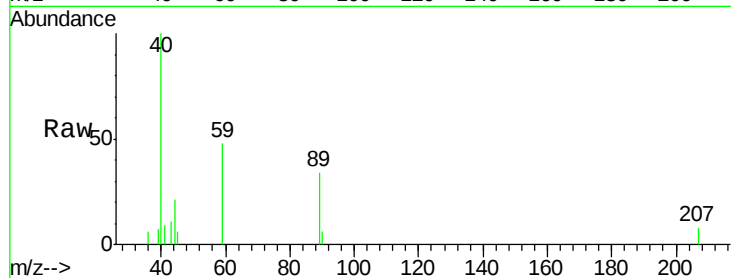
Tert butyl alcohol
Concen: 26.823 ug/l
RT: 5.19 min Scan# 556
Delta R.T. -0.03 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 59 Resp: 6800
Ion Ratio Lower Upper
59 100
57 3.8 8.7 13.1#

Manual Integrations
APPROVED

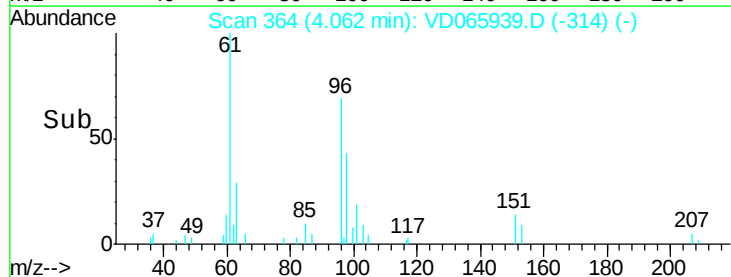
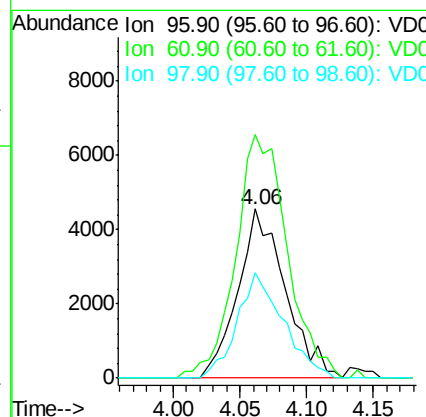
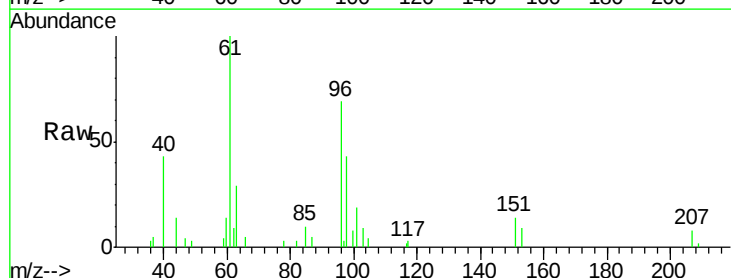
MMDadoda
7/9/2020 10:48:19 AM

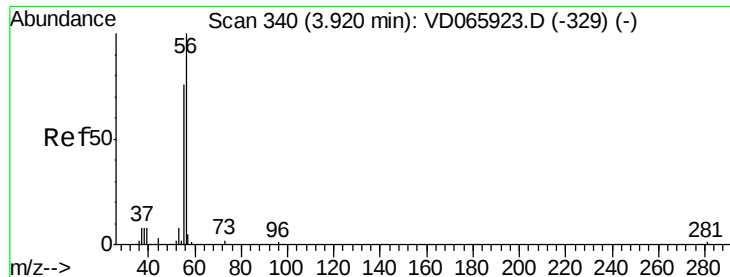


#12

1,1-Dichloroethene
Concen: 2.901 ug/l
RT: 4.06 min Scan# 364
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 96 Resp: 11215
Ion Ratio Lower Upper
96 100
61 144.1 120.2 180.2
98 62.6 50.6 76.0





#13

Acrolein

Concen: 15.017 ug/l

RT: 3.92 min Scan# 340

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 56 Resp: 3132

Ion Ratio Lower Upper

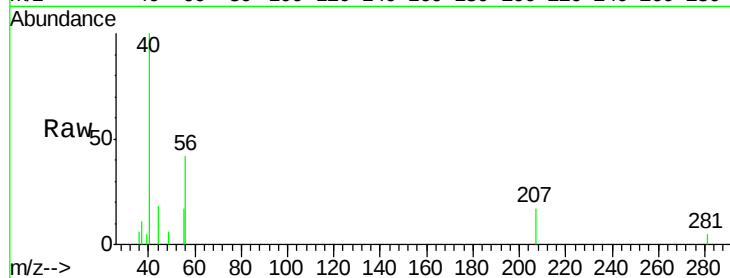
56 100

55 67.6 55.0 82.6

Manual Integrations
APPROVED

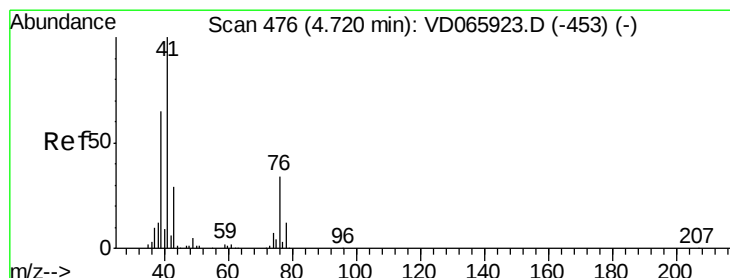
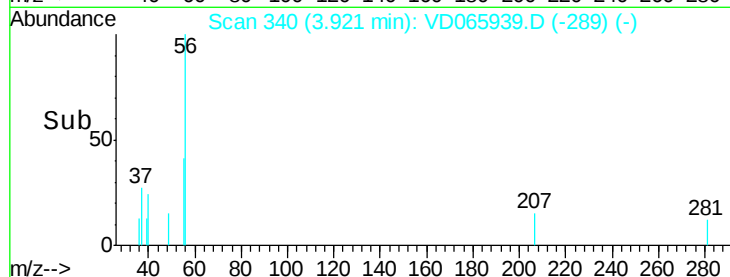
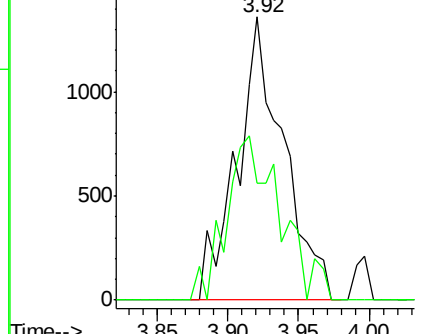
MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.466 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

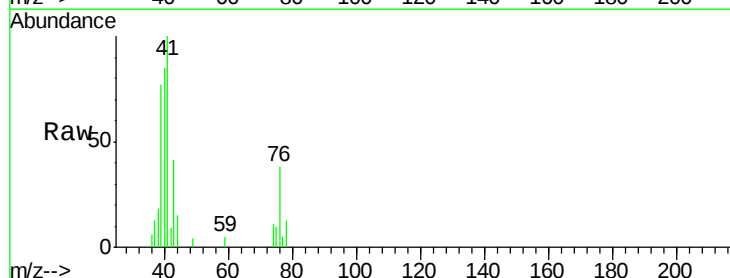
Tgt Ion: 41 Resp: 16157

Ion Ratio Lower Upper

41 100

39 66.8 52.2 78.4

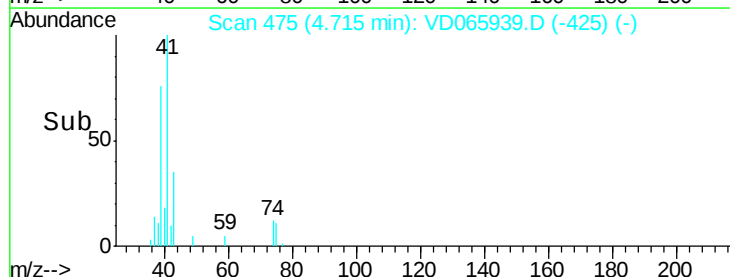
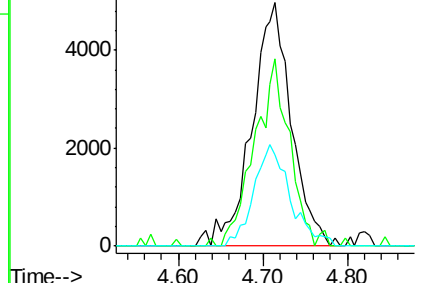
76 38.6 28.1 42.1

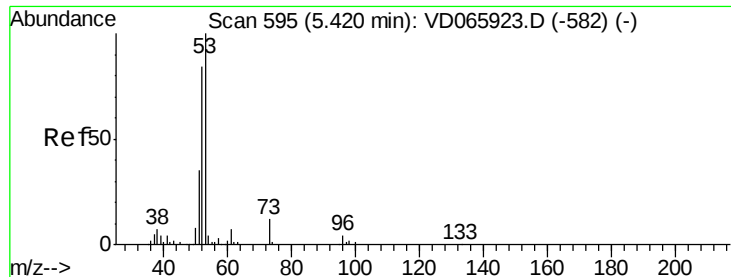


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 13.151 ug/l

RT: 5.42 min Scan# 595

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

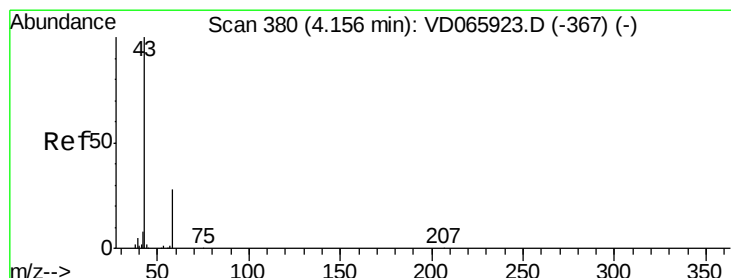
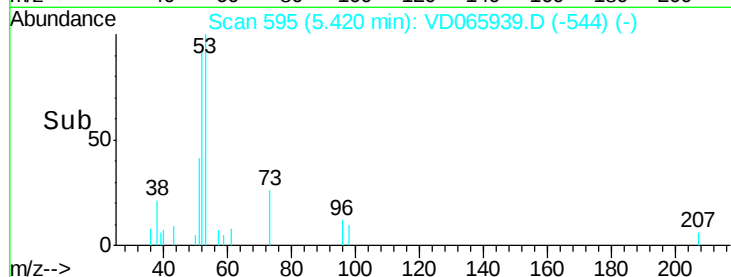
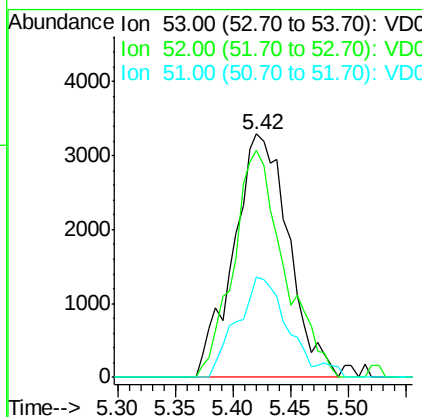
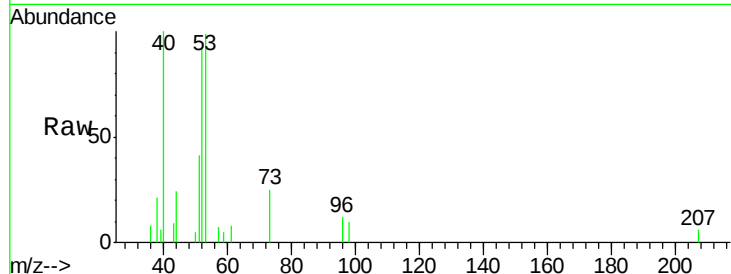
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:	53	Resp:	10928
Ion	Ratio	Lower	Upper
53	100		
52	86.1	66.3	99.5
51	37.2	29.8	44.8

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#16

Acetone

Concen: 16.466 ug/l

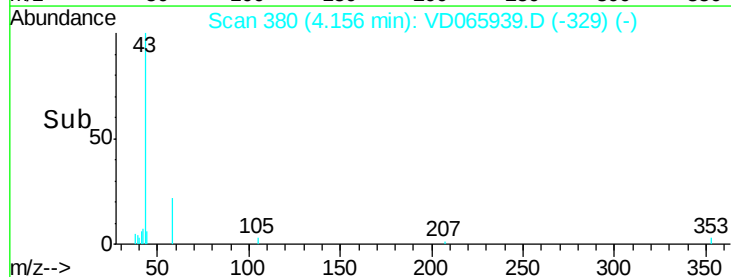
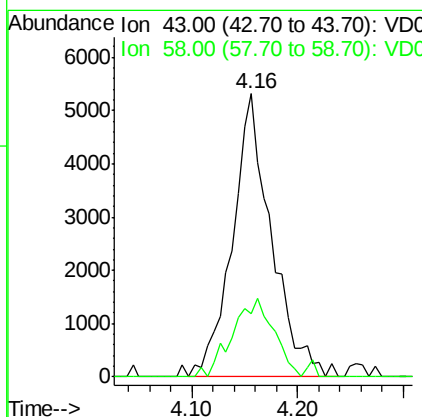
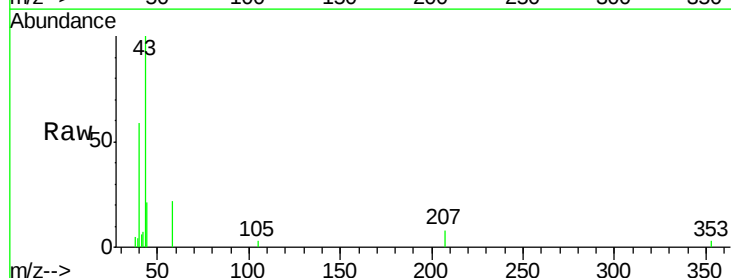
RT: 4.16 min Scan# 380

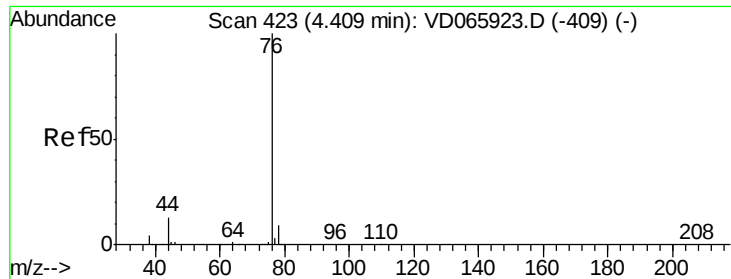
Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion:	43	Resp:	13642
Ion	Ratio	Lower	Upper
43	100		
58	22.4	22.7	34.1#





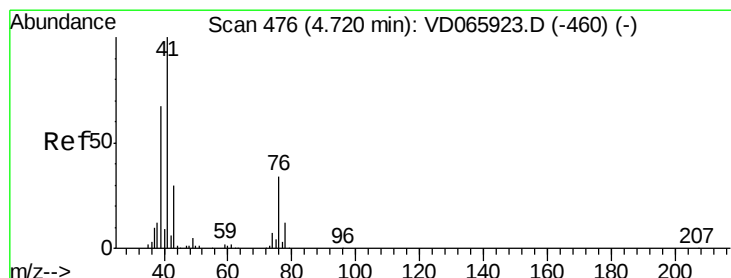
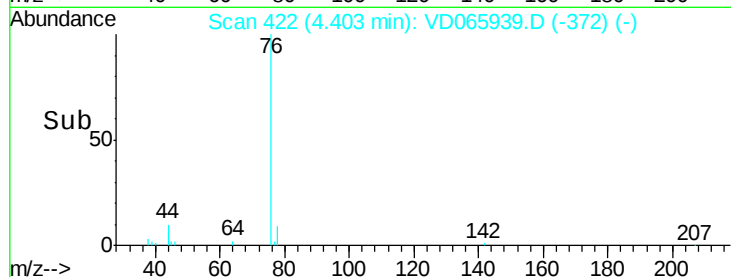
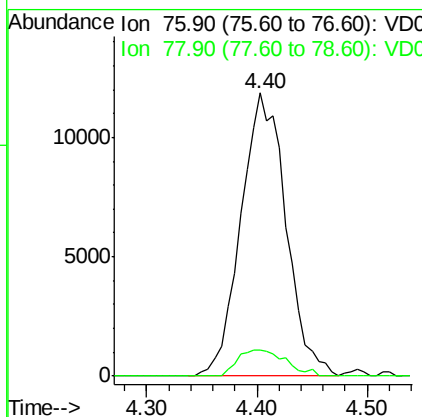
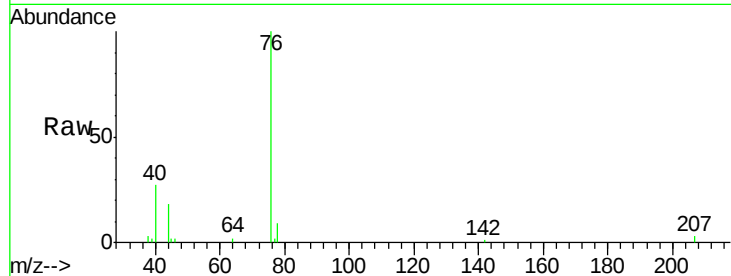
#17
Carbon Disulfide
Concen: 2.751 ug/l
RT: 4.40 min Scan# 422
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.5	11.3

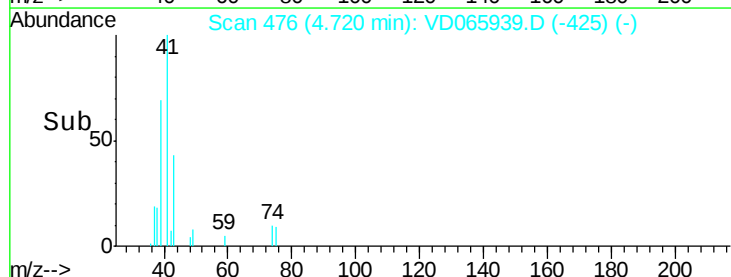
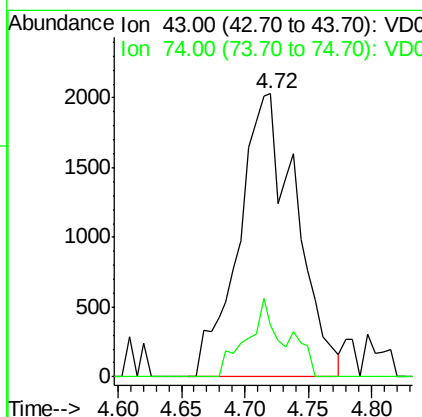
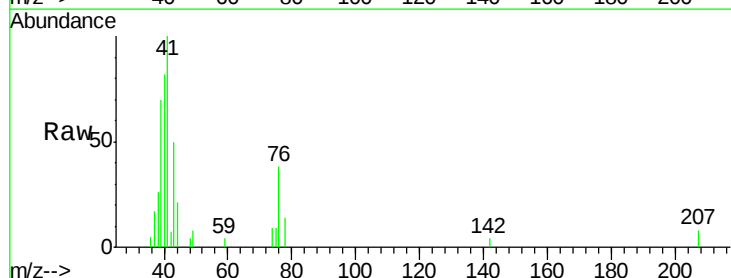
Manual Integrations
APPROVED

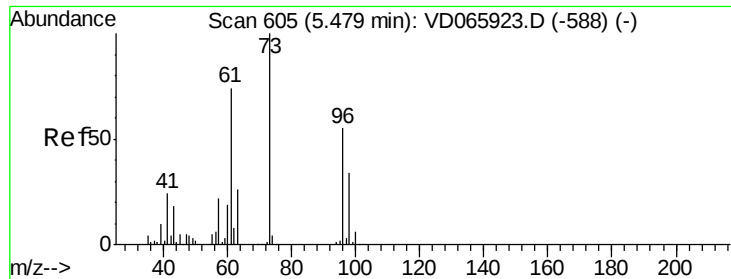
MMDadoda
7/9/2020 10:48:19 AM



#18
Methyl Acetate
Concen: 3.297 ug/l
RT: 4.72 min Scan# 476
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
43	100		
74	14.2	17.8	26.8#





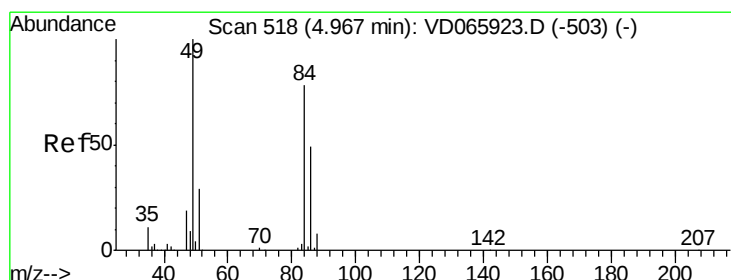
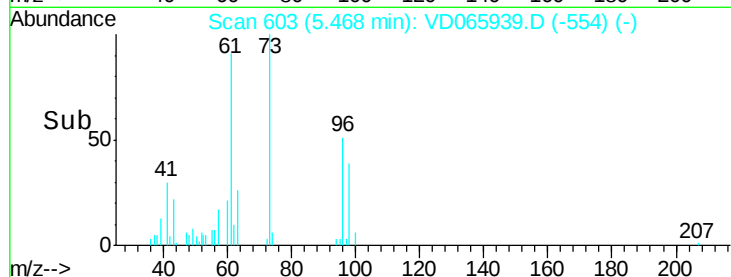
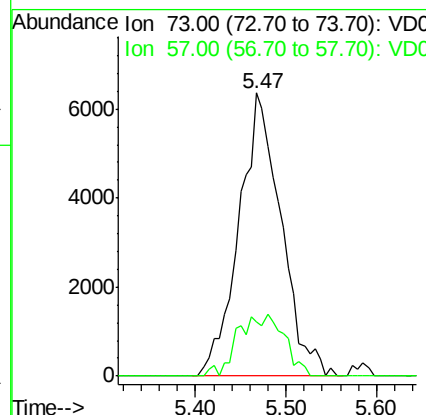
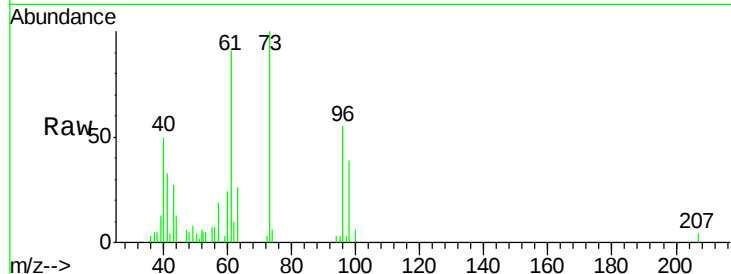
#19
Methvl tert-butvl Ether
Concen: 2.516 ug/l
RT: 5.47 min Scan# 603
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 73 Resp: 20590
Ion Ratio Lower Upper
73 100
57 19.4 17.7 26.5

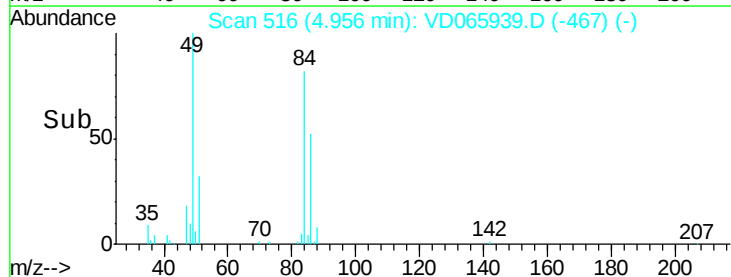
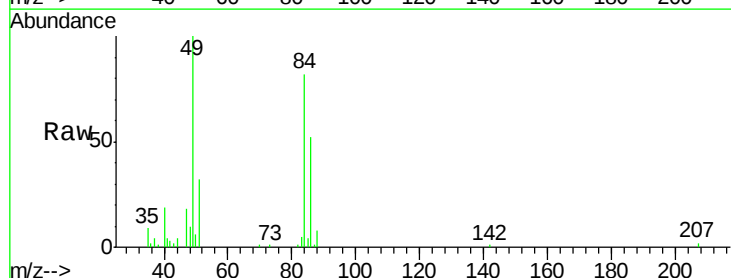
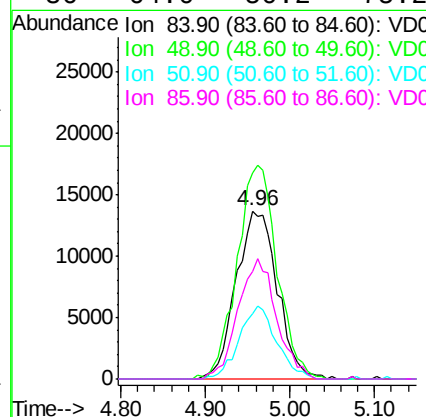
Manual Integrations
APPROVED

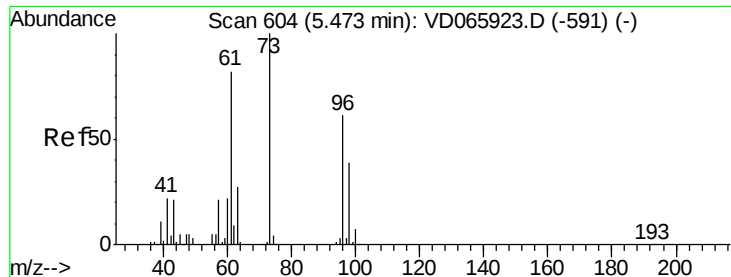
MMDadoda
7/9/2020 10:48:19 AM



#20
Methylene Chloride
Concen: 7.864 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 84 Resp: 46283
Ion Ratio Lower Upper
84 100
49 122.4 102.2 153.2
51 38.8 29.8 44.6
86 64.0 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 2.836 ug/l

RT: 5.48 min Scan# 605

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

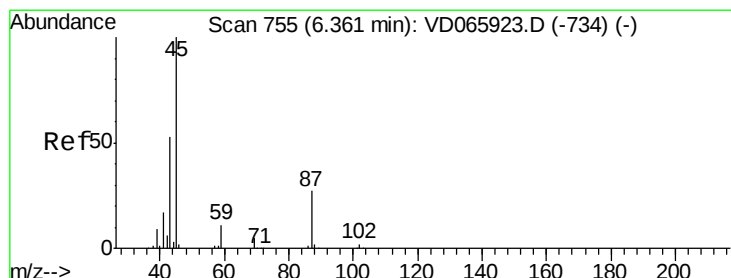
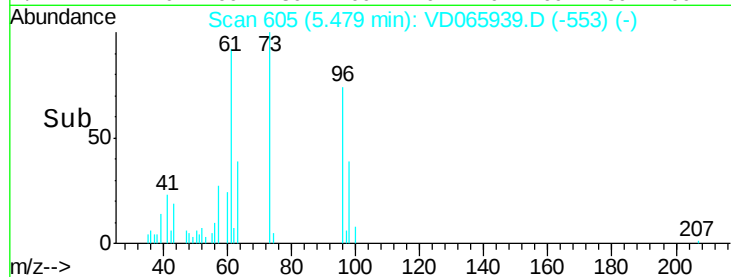
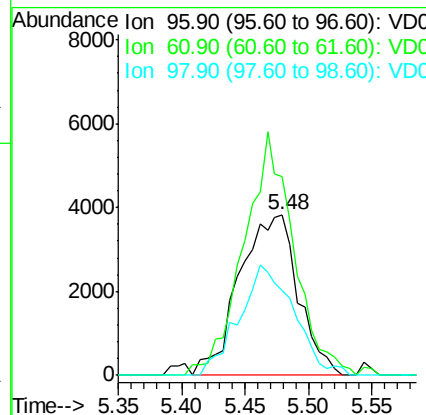
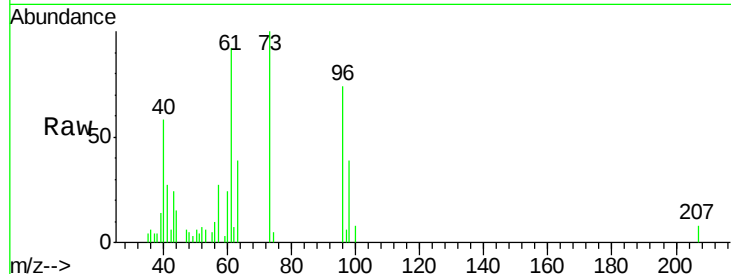
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:	96	Resp:	12335
Ion	Ratio	Lower	Upper
96	100		
61	118.6	106.6	160.0
98	52.7	51.0	76.6

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#22

Diisopropyl ether

Concen: 2.510 ug/l

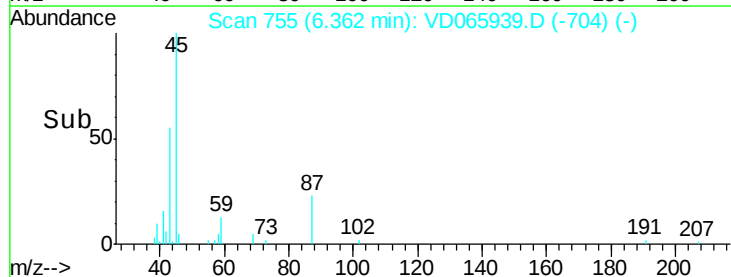
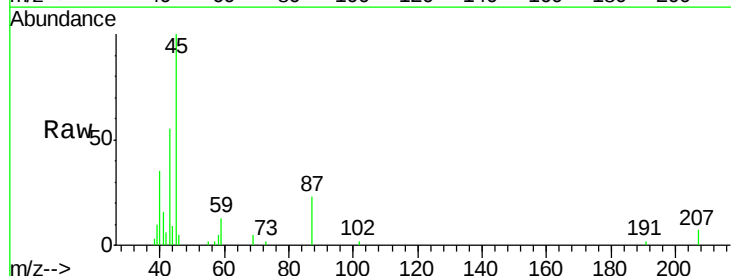
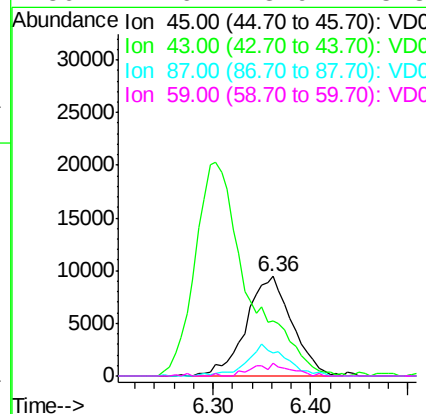
RT: 6.36 min Scan# 755

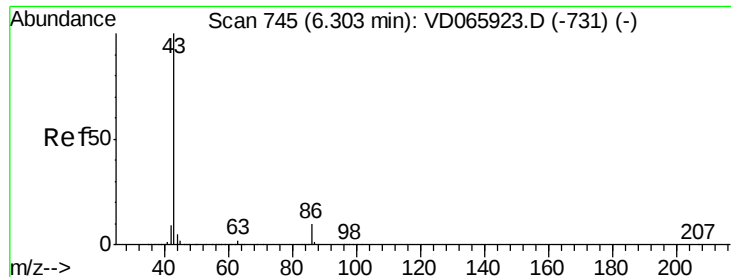
Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion:	45	Resp:	30908
Ion	Ratio	Lower	Upper
45	100		
43	52.3	42.5	63.7
87	22.7	22.2	33.2
59	12.6	8.9	13.3





#23

Vinyl Acetate

Concen: 10.797 ug/l

RT: 6.30 min Scan# 745

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 75877

Ion Ratio Lower Upper

43 100

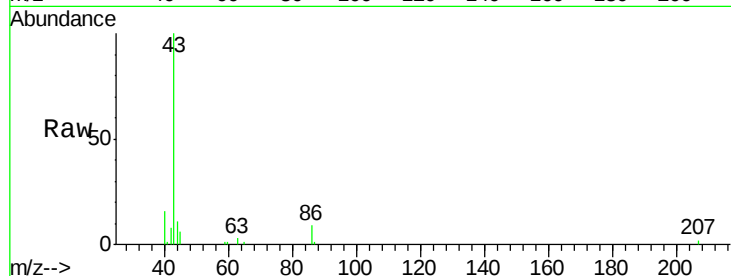
86 9.1 8.1 12.1

Manual Integrations

APPROVED

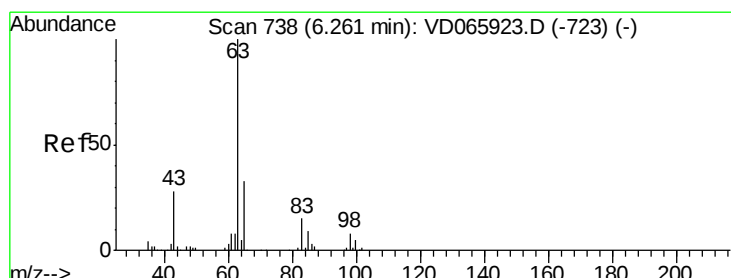
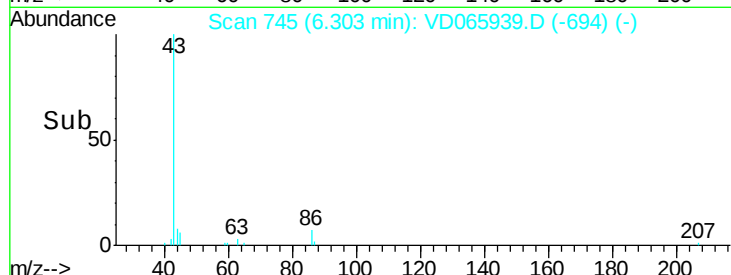
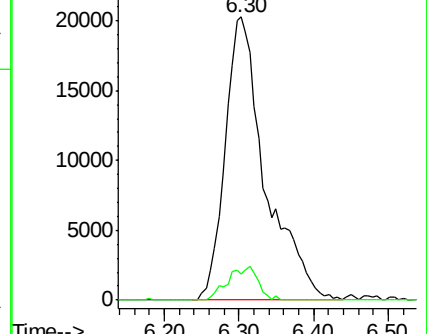
MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 2.646 ug/l

RT: 6.26 min Scan# 738

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

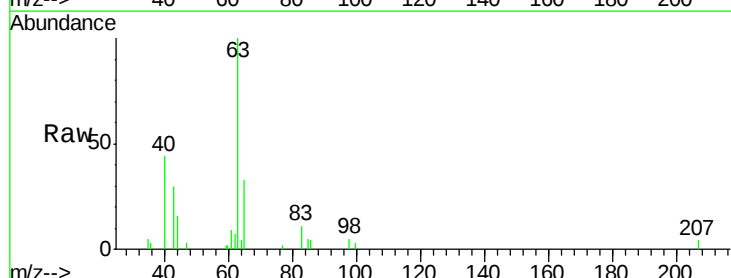
Tgt Ion: 63 Resp: 19428

Ion Ratio Lower Upper

63 100

98 4.7 3.8 11.4

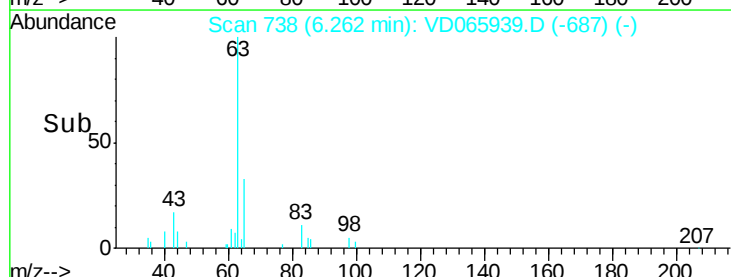
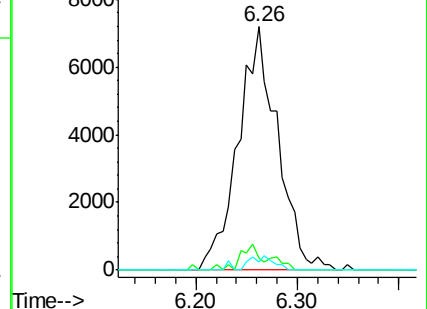
100 3.2 2.5 7.5

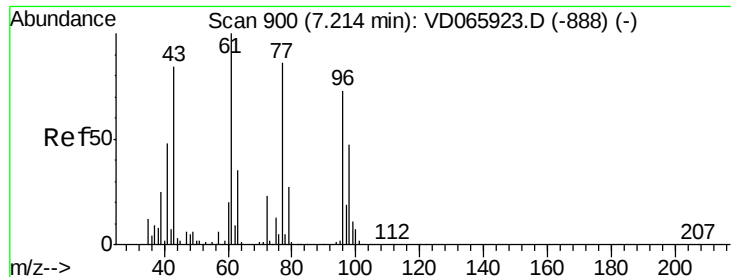


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 14.336 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 15694

Ion Ratio Lower Upper

43 100

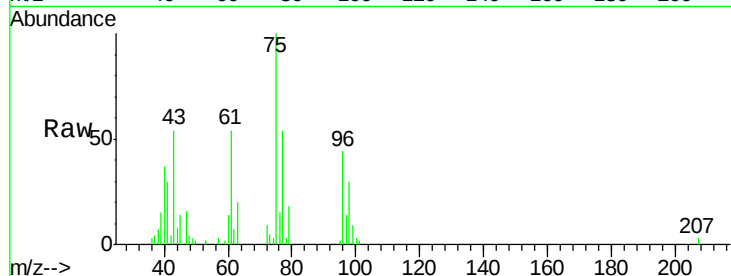
72 16.5 22.1 33.1#

Manual Integrations

APPROVED

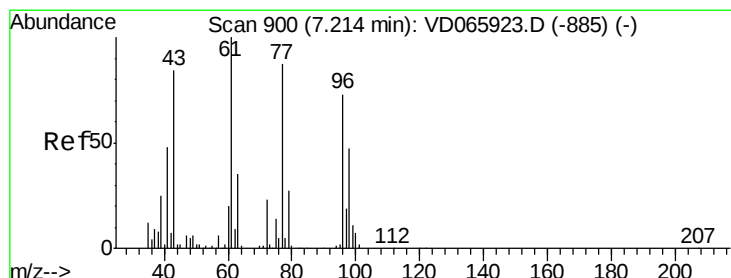
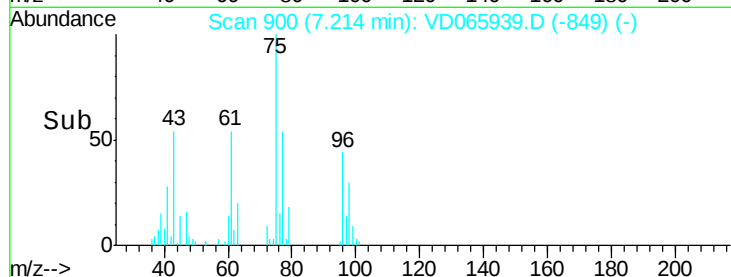
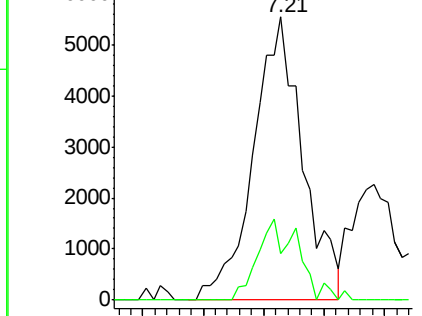
MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.066 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.02 min

Lab File: VD065939.D

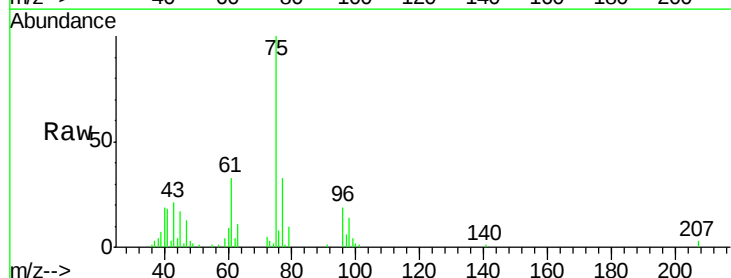
Acq: 08 Jul 2020 14:43

Tgt Ion: 77 Resp: 19689

Ion Ratio Lower Upper

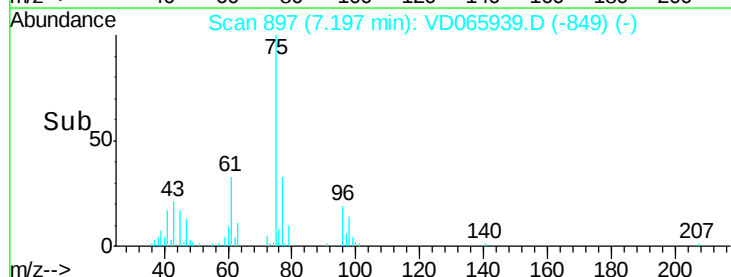
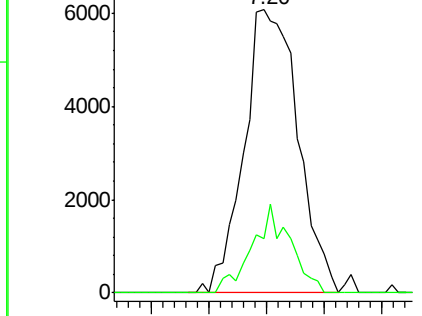
77 100

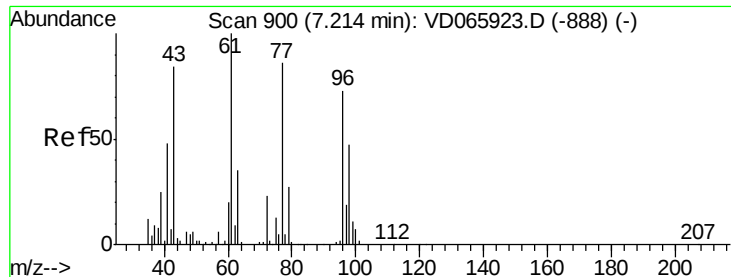
97 22.3 11.6 34.8



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

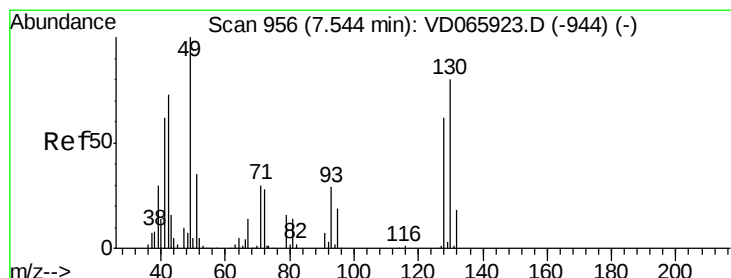
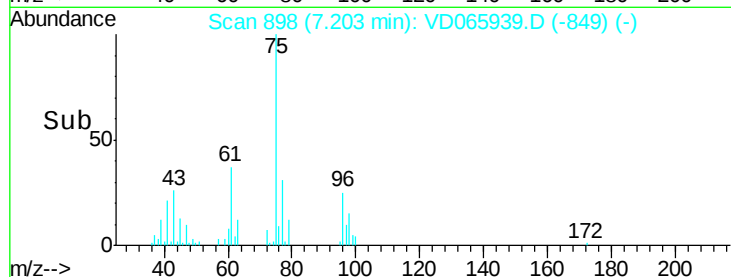
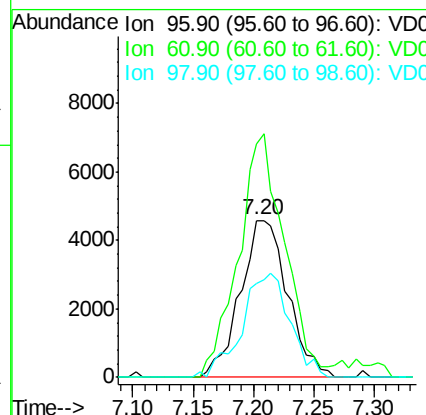
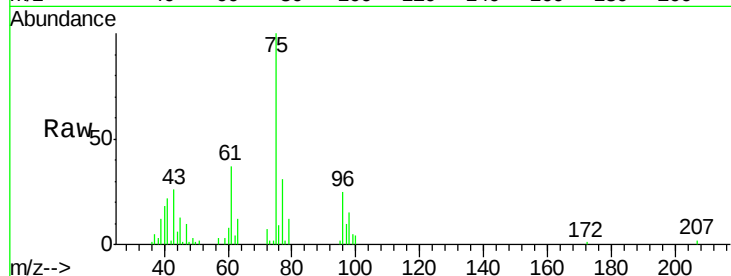
cis-1,2-Dichloroethene
Concen: 2.677 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.5	0.0	286.6
98	67.1	0.0	128.2

Manual Integrations
APPROVED

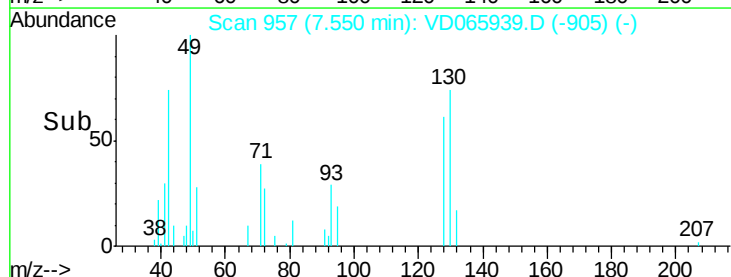
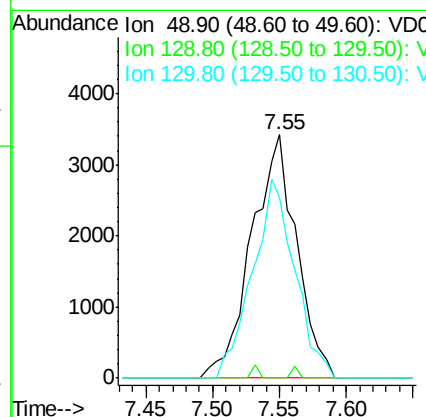
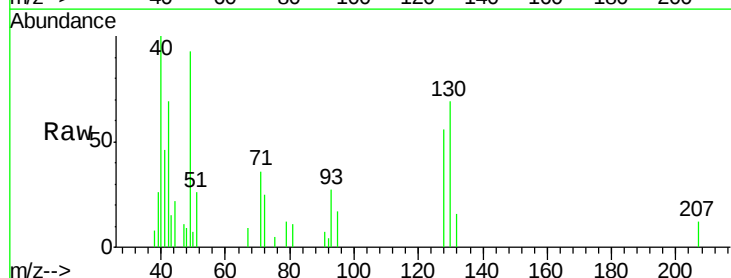
MMDadoda
7/9/2020 10:48:19 AM

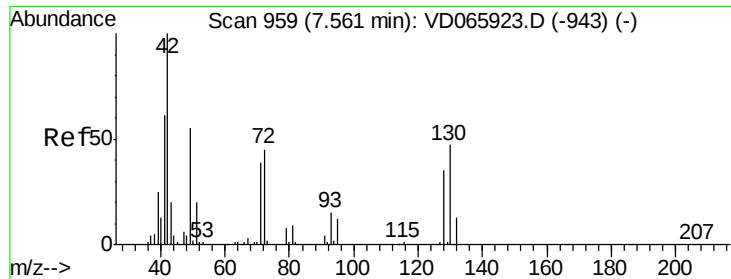


#28

Bromochloromethane
Concen: 2.877 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.8
130	76.7	65.8	98.8





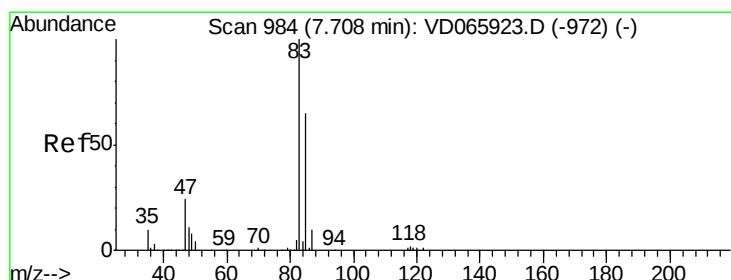
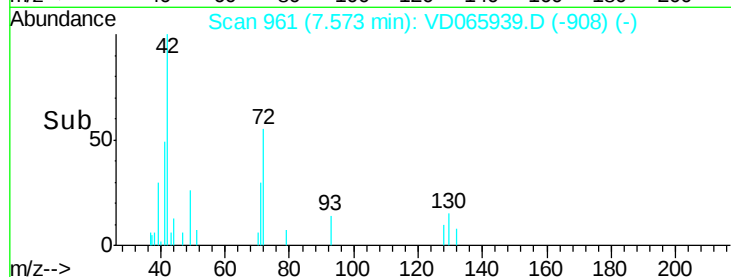
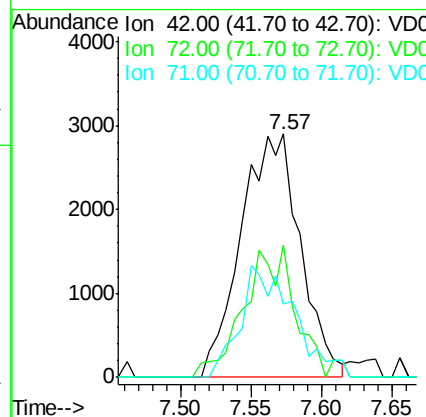
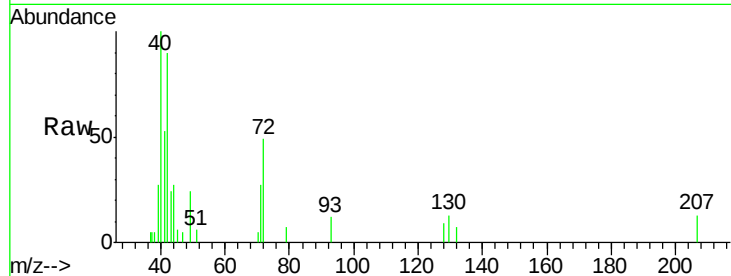
#29
Tetrahydrofuran
Concen: 12.236 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.8	32.8	49.2
71	0.0	31.0	46.4

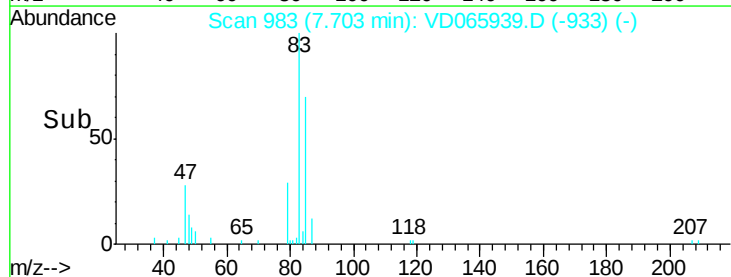
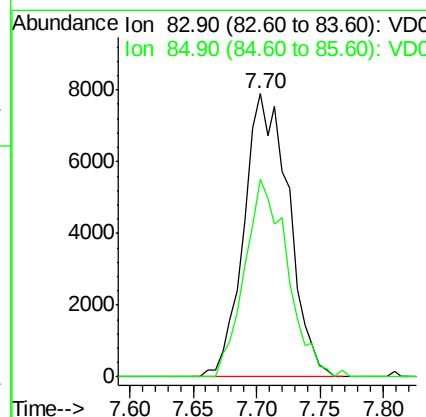
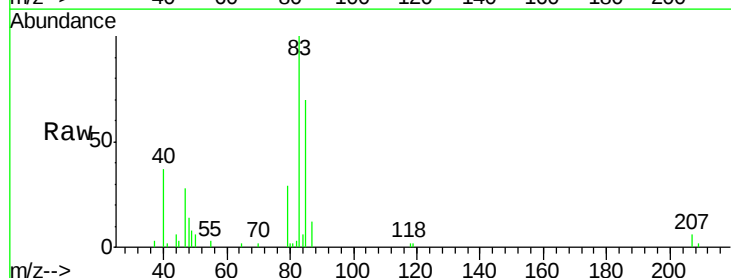
Manual Integrations
APPROVED

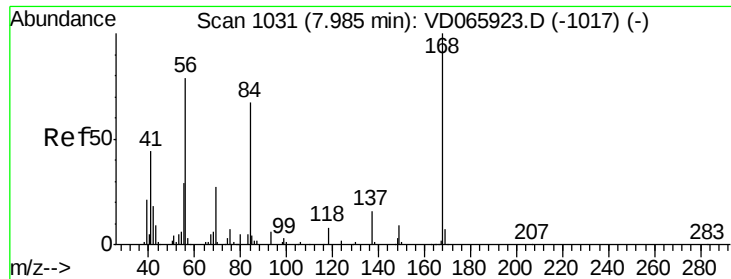
MMDadoda
7/9/2020 10:48:19 AM



#30
Chloroform
Concen: 2.604 ug/l
RT: 7.70 min Scan# 983
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.0	51.6	77.4





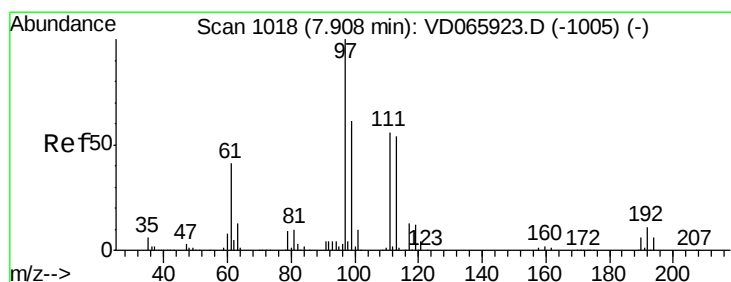
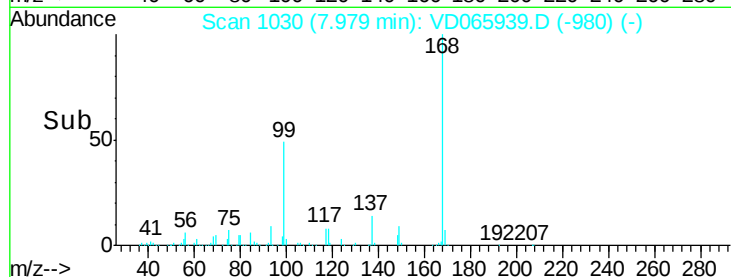
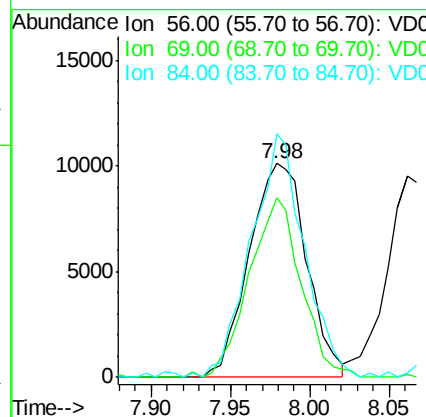
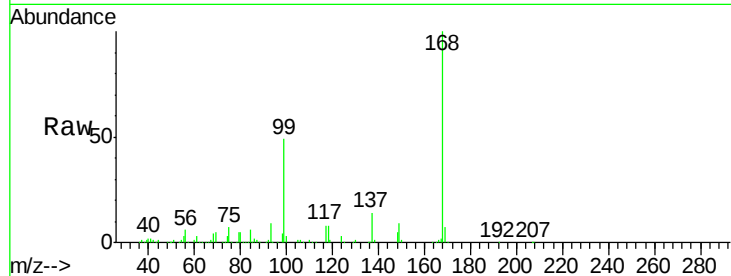
#31
Cyclohexane
Concen: 3.531 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
56	100		
69	81.2	27.4	41.0#
84	111.8	68.6	102.8#

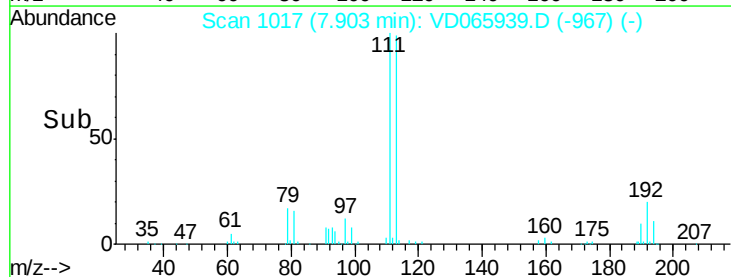
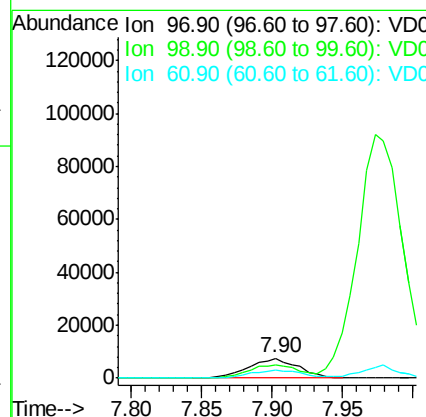
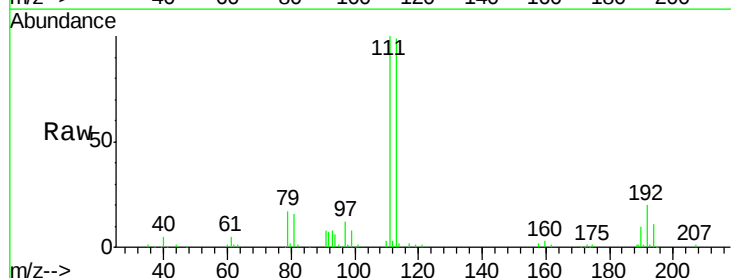
Manual Integrations
APPROVED

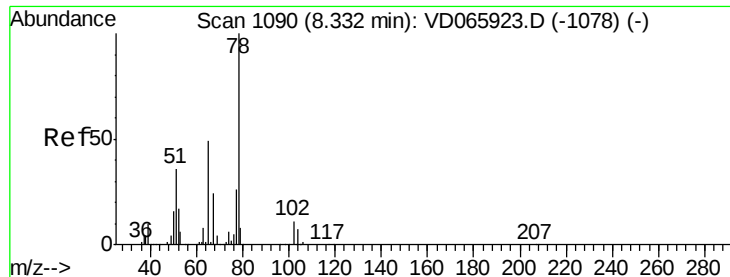
MMDadoda
7/9/2020 10:48:19 AM



#32
1,1,1-Trichloroethane
Concen: 2.669 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	69.8	51.6	77.4
61	43.5	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 47.570 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 65 Resp: 168165

Ion Ratio Lower Upper

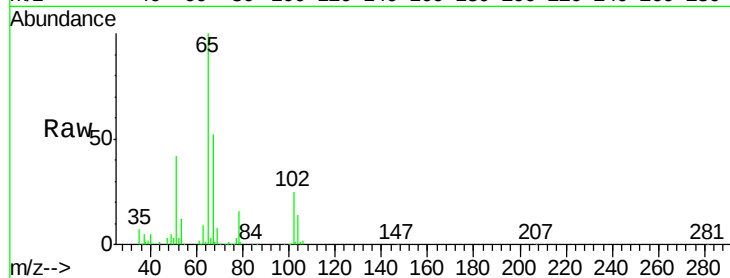
65 100

67 51.6 0.0 105.6

Manual Integrations
APPROVED

MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

8.33

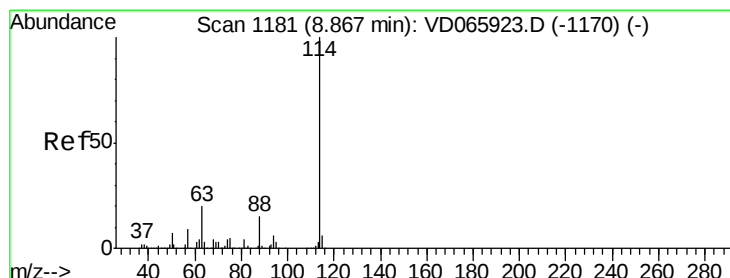
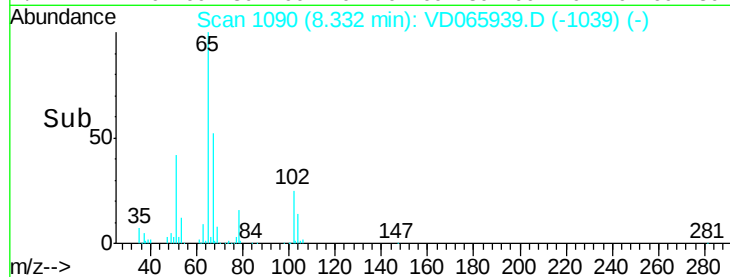
8.33

8.33

8.33

8.33

8.33



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

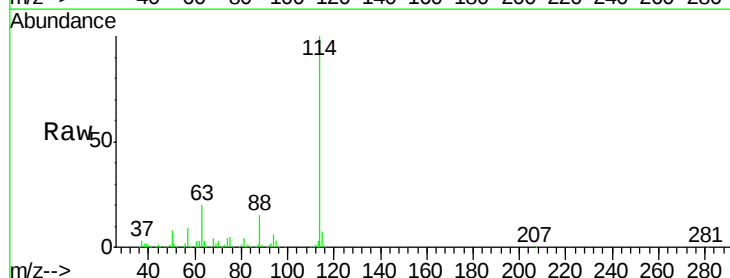
Tgt Ion: 114 Resp: 602868

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

88 15.4 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

8.86

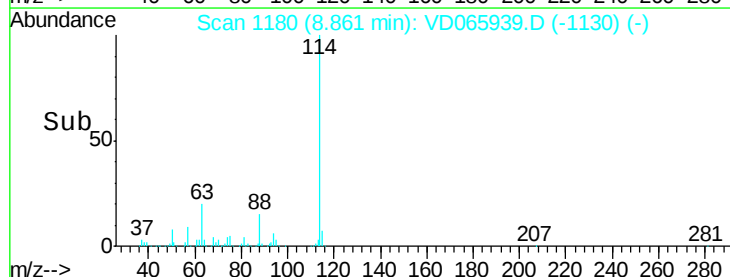
8.86

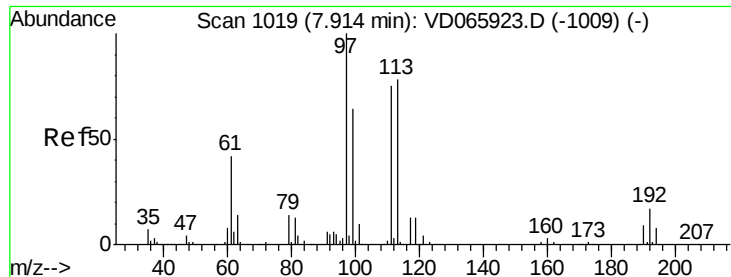
8.86

8.86

8.86

8.86





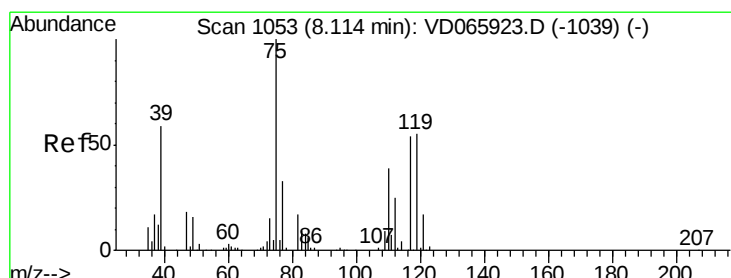
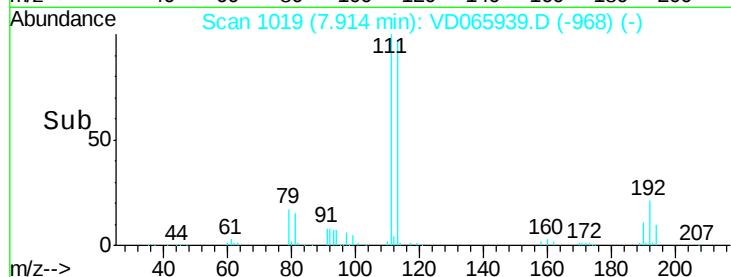
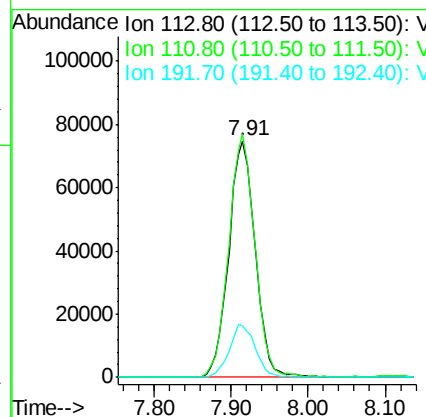
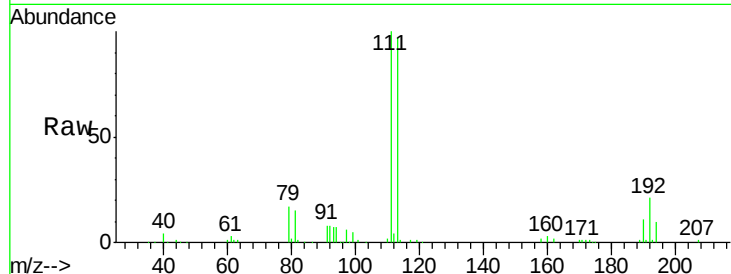
#35
Dibromofluoromethane
Concen: 48.256 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.9	121.3
192	21.8	17.1	25.7

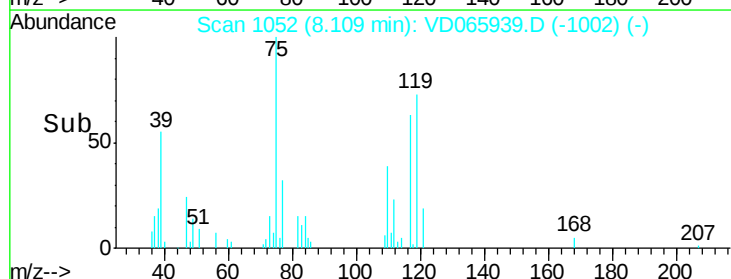
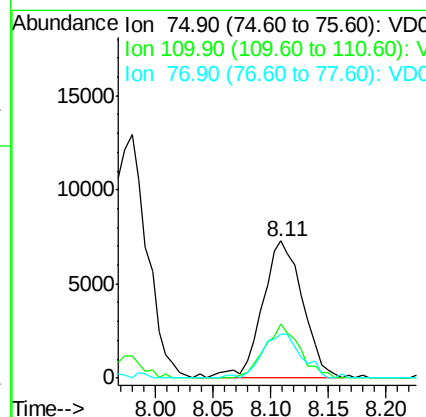
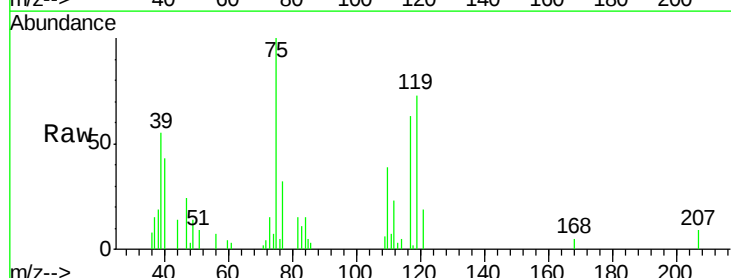
Manual Integrations
APPROVED

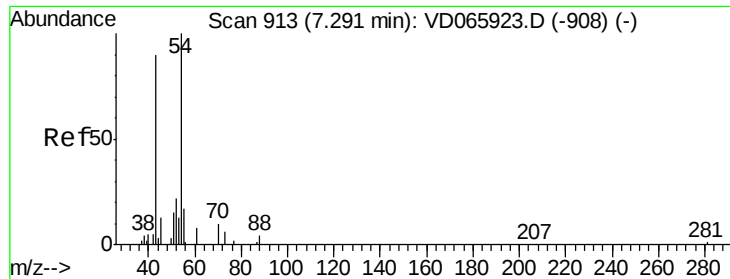
MMDadoda
7/9/2020 10:48:19 AM



#36
1,1-Dichloropropene
Concen: 2.982 ug/l
RT: 8.11 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.3	18.5	55.5
77	31.5	25.6	38.4





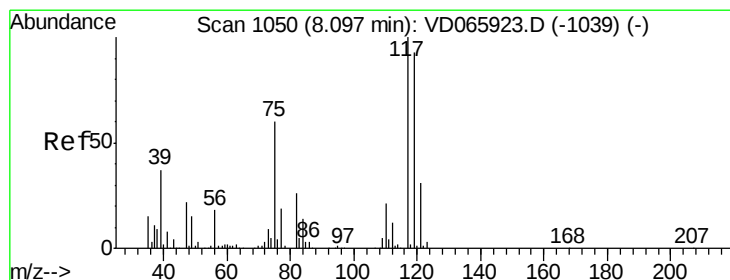
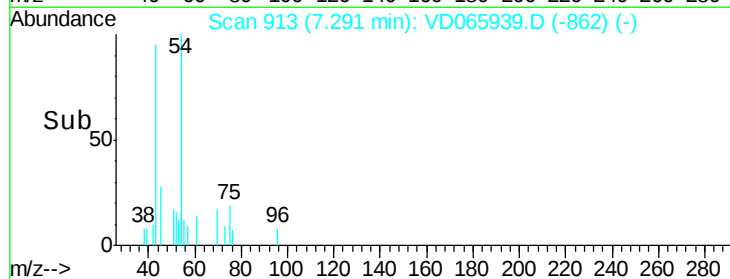
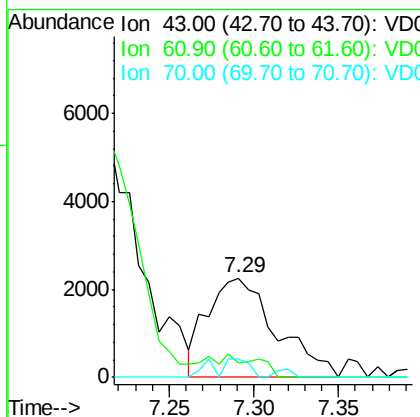
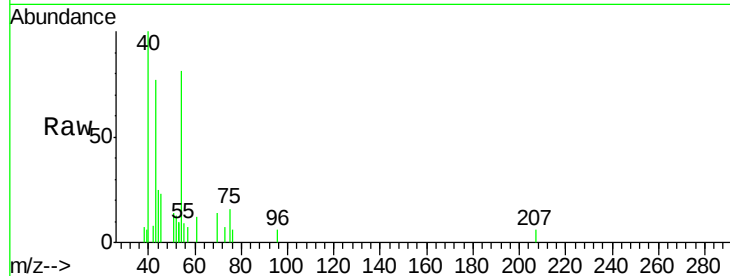
#37
Ethyl Acetate
Concen: 2.565 ug/l
RT: 7.29 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.4	14.0#
70	6.3	8.3	12.5#

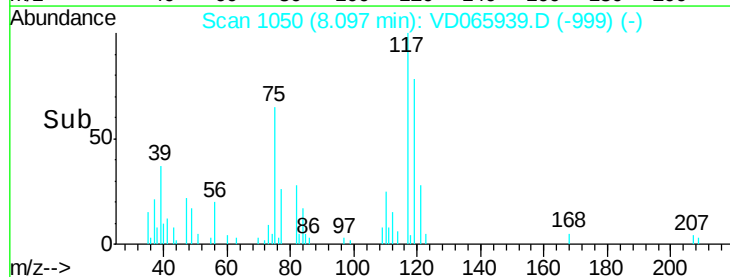
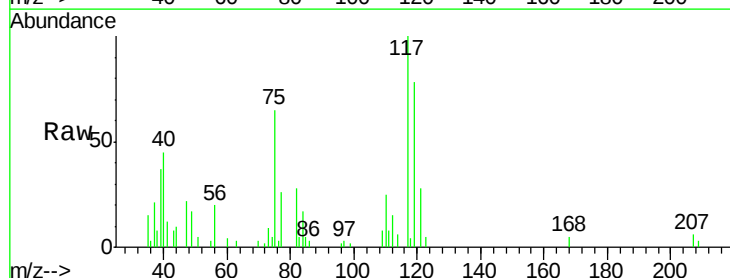
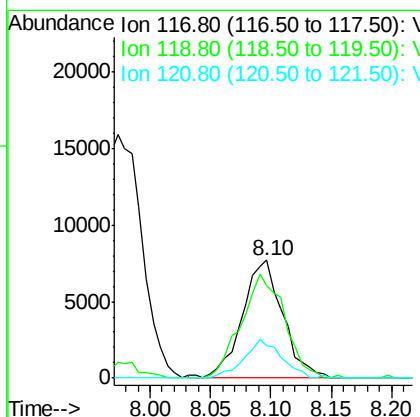
Manual Integrations
APPROVED

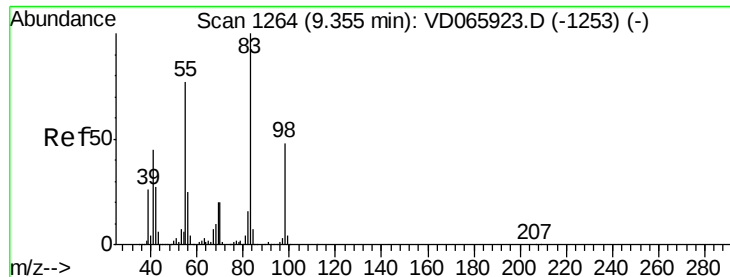
MMDadoda
7/9/2020 10:48:19 AM



#38
Carbon Tetrachloride
Concen: 2.837 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	78.4	74.7	112.1
121	27.9	24.9	37.3





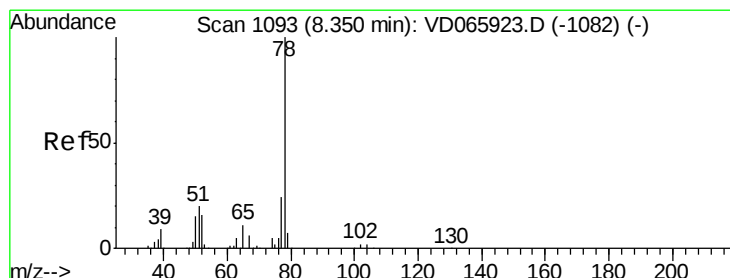
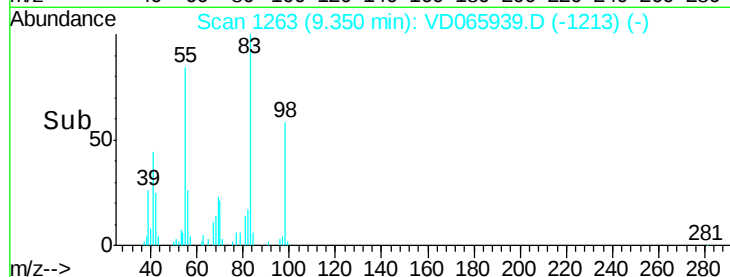
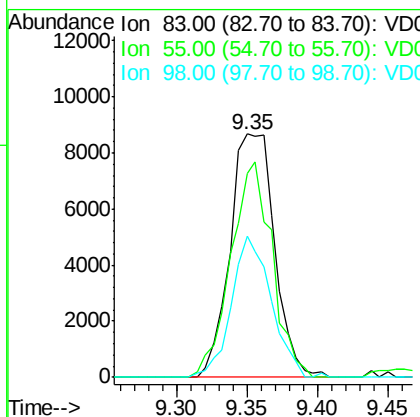
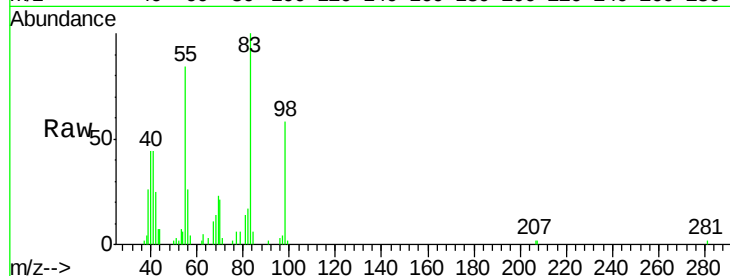
#39
Methvlcvclohexane
Concen: 2.621 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.6	61.7	92.5
98	57.8	38.6	58.0

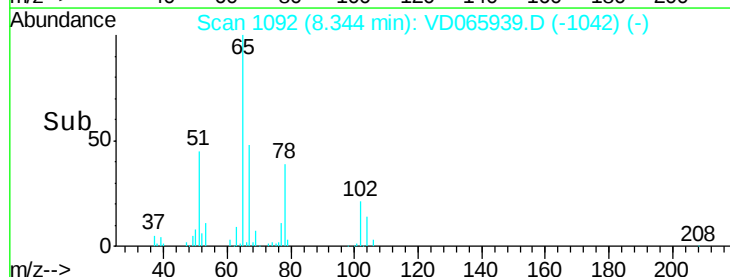
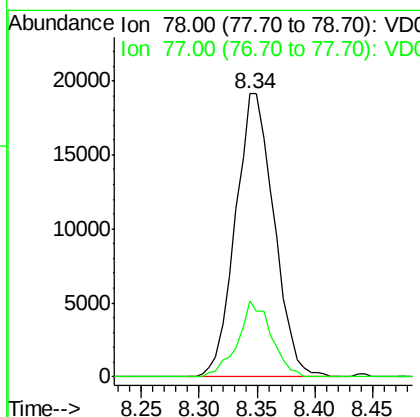
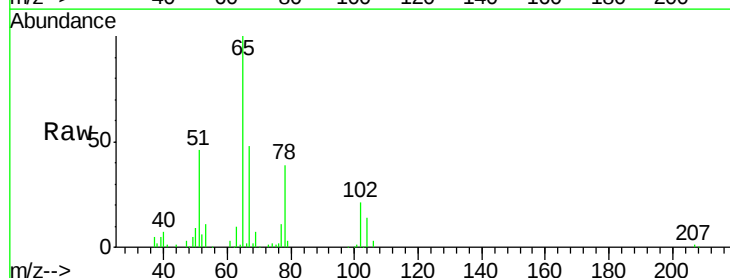
Manual Integrations
APPROVED

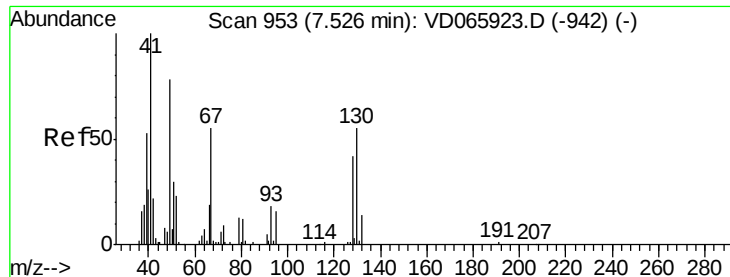
MMDadoda
7/9/2020 10:48:19 AM



#40
Benzene
Concen: 2.704 ug/l
RT: 8.34 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.9	19.4	29.0





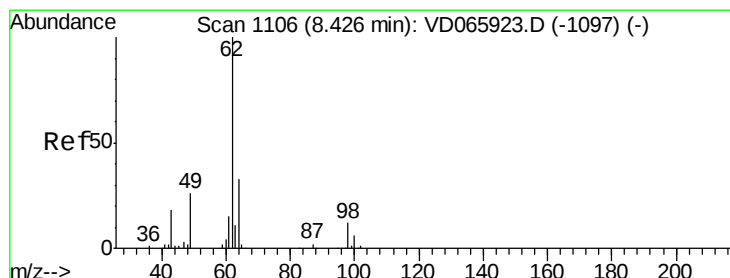
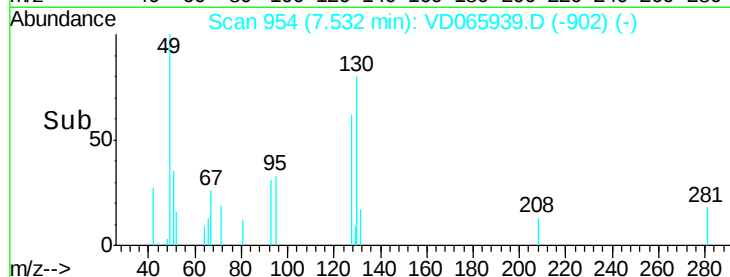
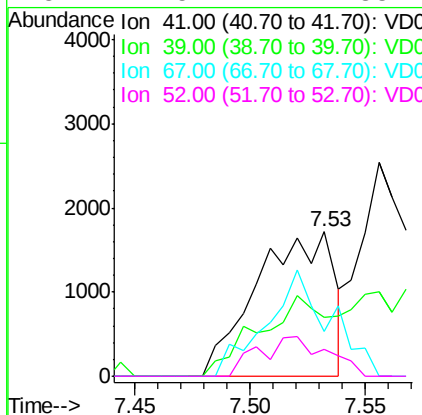
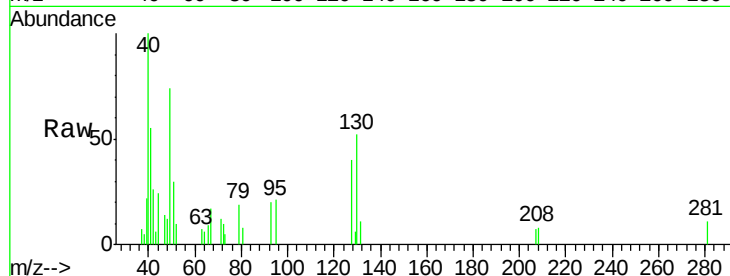
#41
Methacrylonitrile
Concen: 2.755 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion:	41	Resp:	3991
Ion	Ratio	Lower	Upper
41	100		
39	45.5	42.4	63.6
67	60.0	53.6	80.4
52	24.5	22.2	33.2

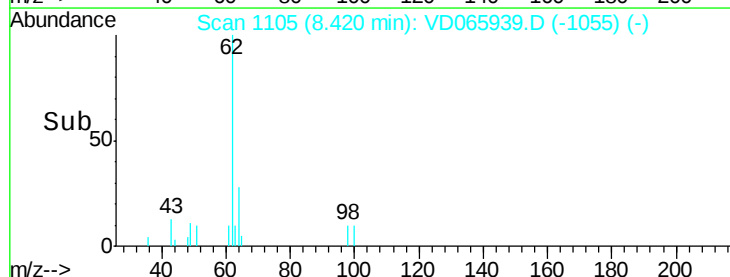
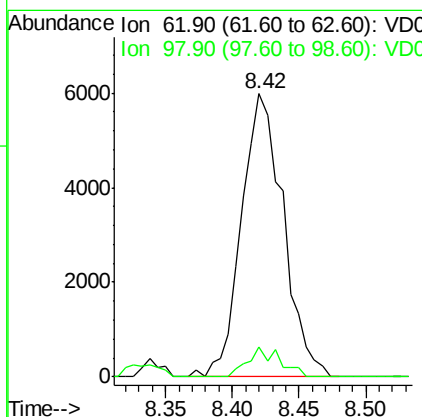
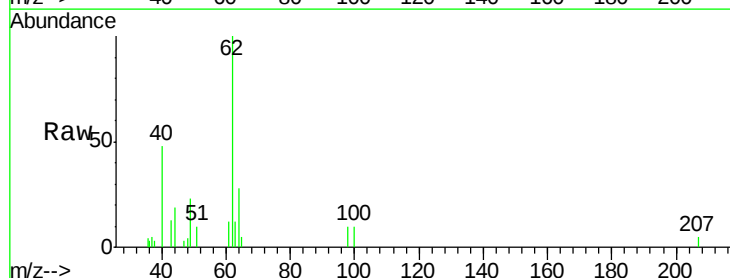
Manual Integrations
APPROVED

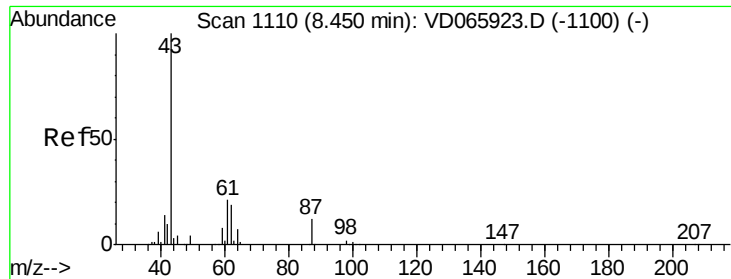
MMDadoda
7/9/2020 10:48:19 AM



#42
1,2-Dichloroethane
Concen: 2.782 ug/l
RT: 8.42 min Scan# 1105
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:	62	Resp:	12964
Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	20.0





#43

Isopropyl Acetate

Concen: 2.535 ug/l

RT: 8.44 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

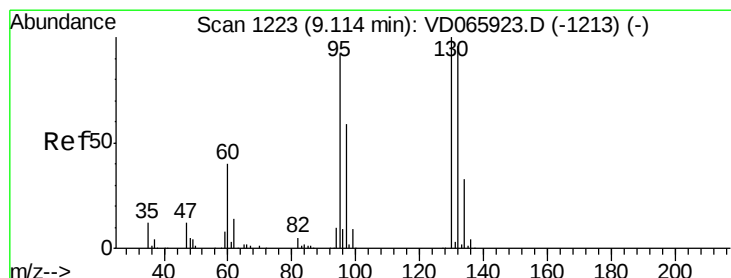
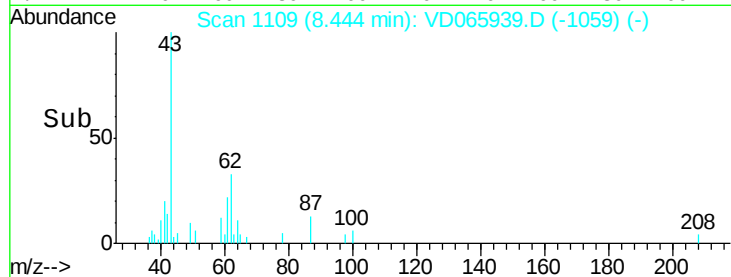
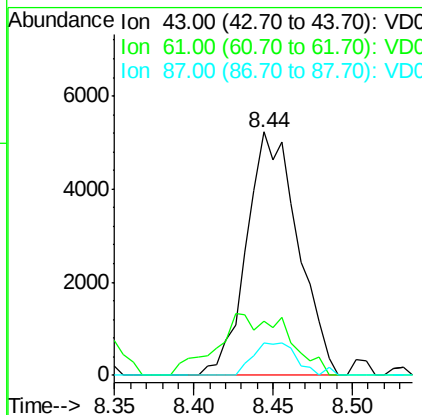
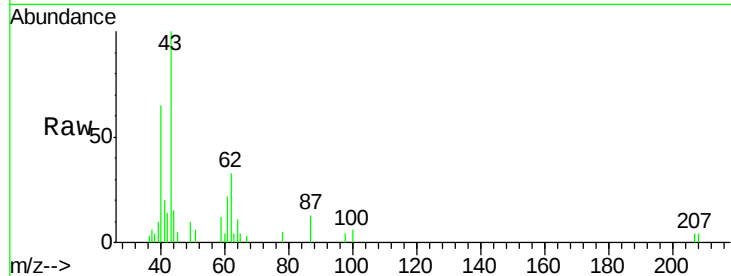
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.2	34.8#
87	11.5	10.0	15.0

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#44

Trichloroethene

Concen: 2.690 ug/l

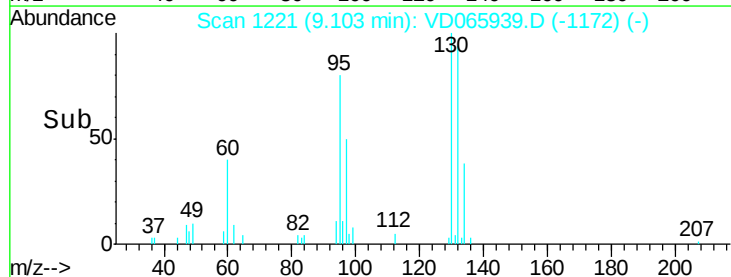
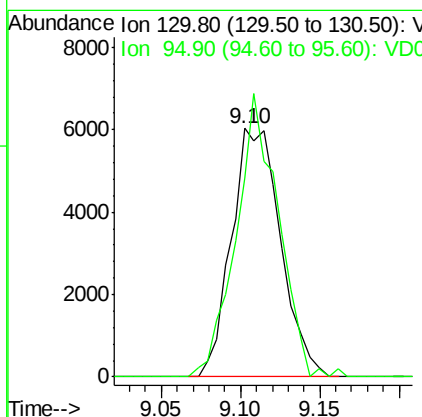
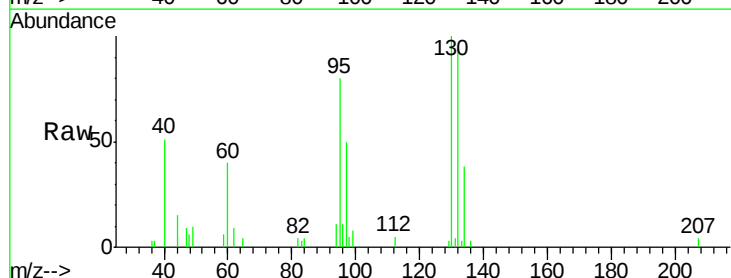
RT: 9.10 min Scan# 1221

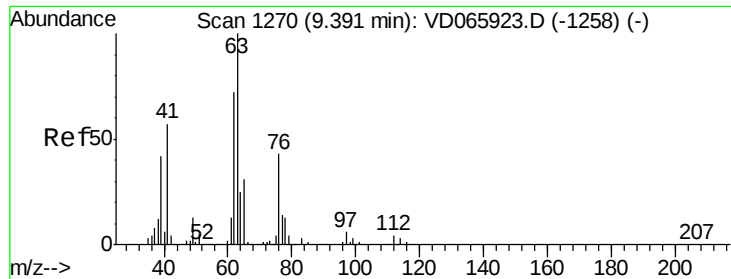
Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
130	100		
95	80.2	0.0	184.6





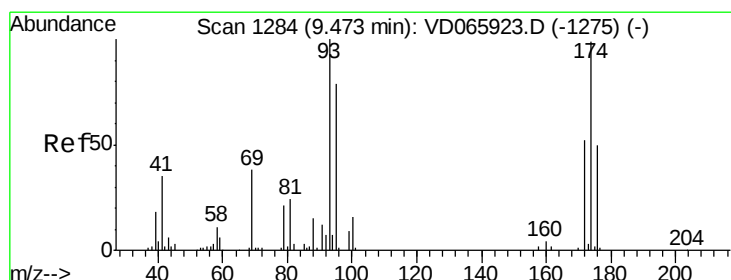
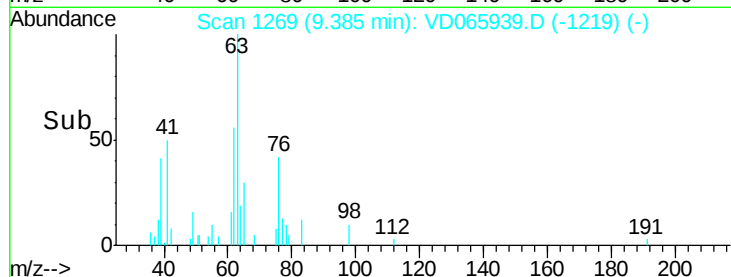
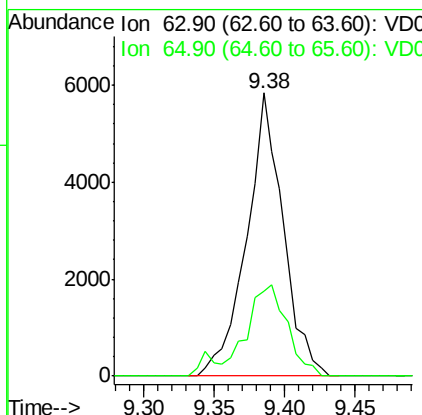
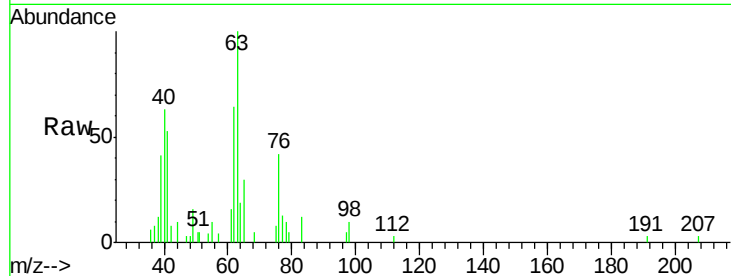
#45
 1,2-Dichloropropane
 Concen: 2.595 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion: 63 Resp: 10595
 Ion Ratio Lower Upper
 63 100
 65 29.9 25.0 37.6

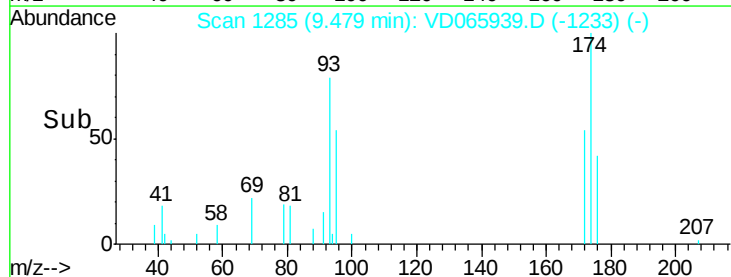
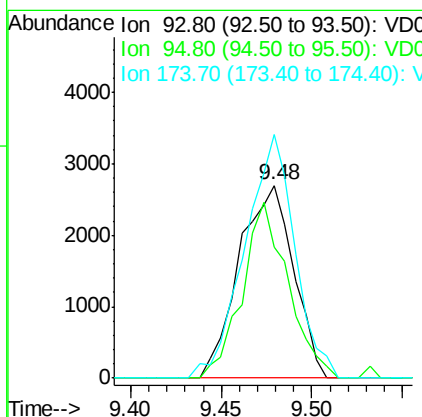
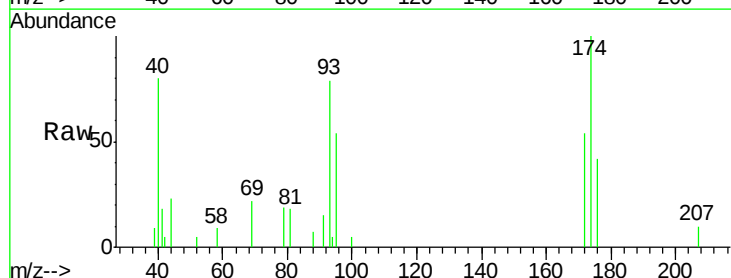
Manual Integrations
 APPROVED

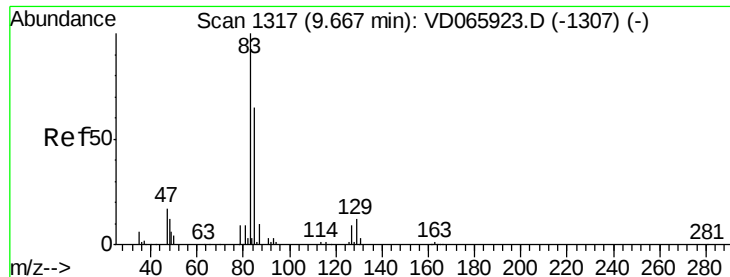
MMDadoda
 7/9/2020 10:48:19 AM



#46
 Dibromomethane
 Concen: 2.648 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 93 Resp: 5629
 Ion Ratio Lower Upper
 93 100
 95 76.8 68.2 102.2
 174 115.9 88.0 132.0





#47

Bromodichloromethane

Concen: 2.500 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

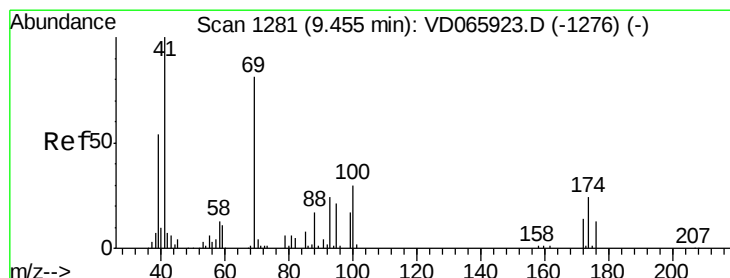
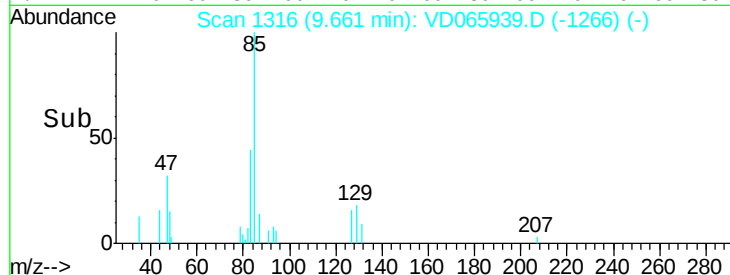
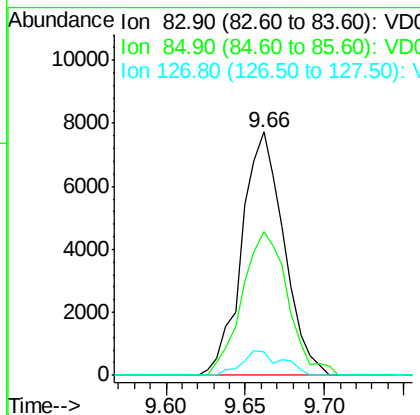
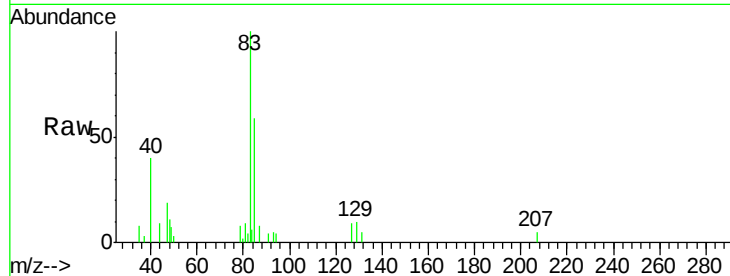
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:	83	Resp:	14254
Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.6	77.4
127	9.4	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#48

Methyl methacrylate

Concen: 2.368 ug/l

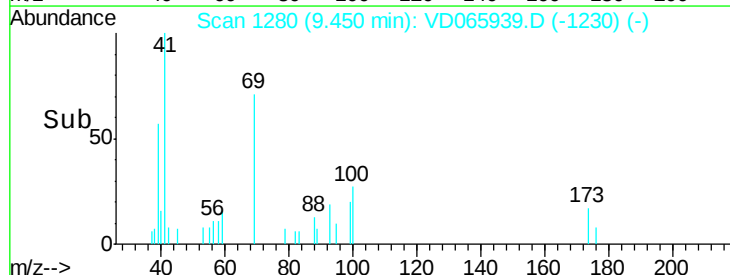
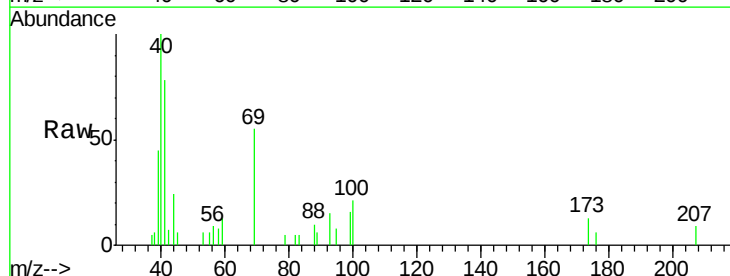
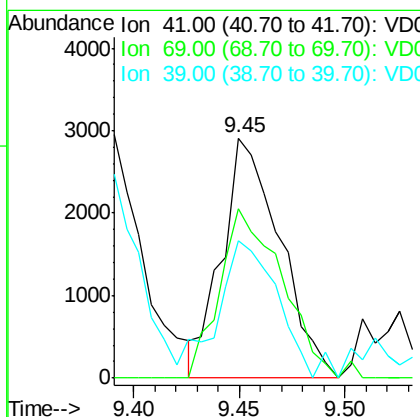
RT: 9.45 min Scan# 1280

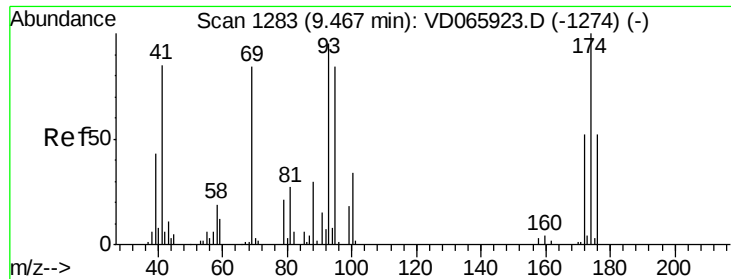
Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion:	41	Resp:	5535
Ion	Ratio	Lower	Upper
41	100		
69	75.6	62.2	93.4
39	58.3	39.9	59.9





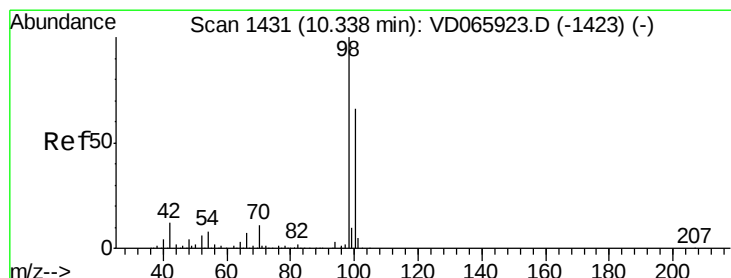
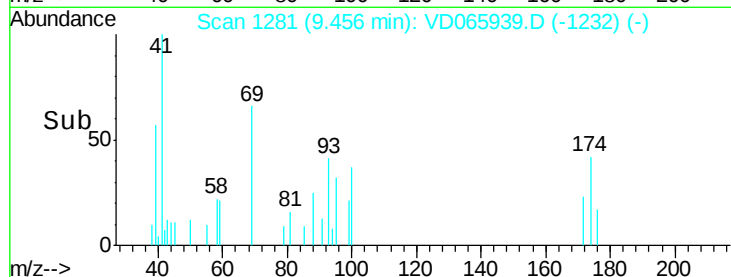
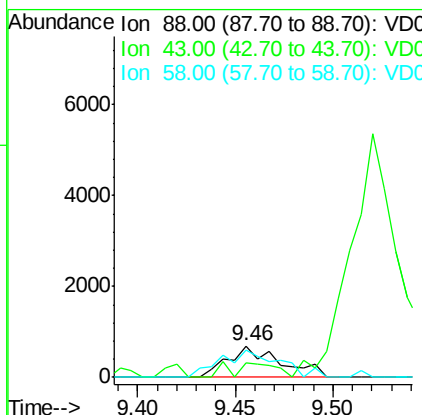
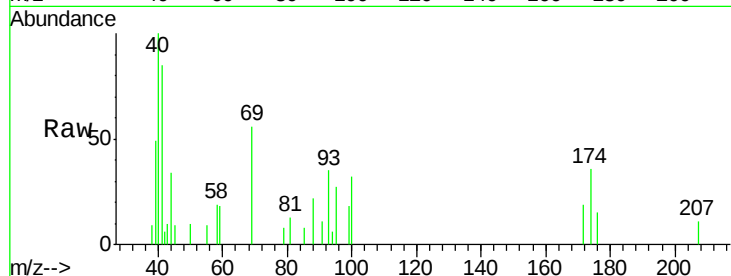
#49
1,4-Dioxane
Concen: 50.405 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 88 Resp: 1273
Ion Ratio Lower Upper
88 100
43 29.6 28.2 42.4
58 98.7 58.6 87.8#

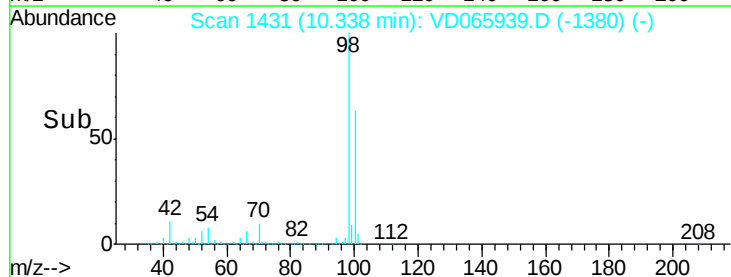
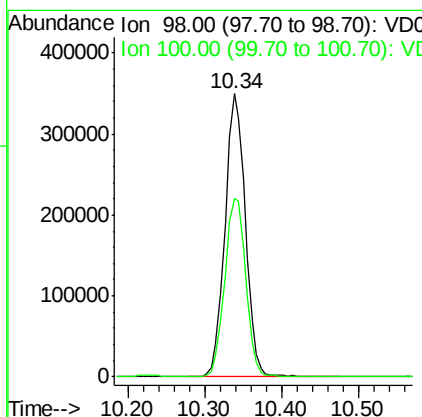
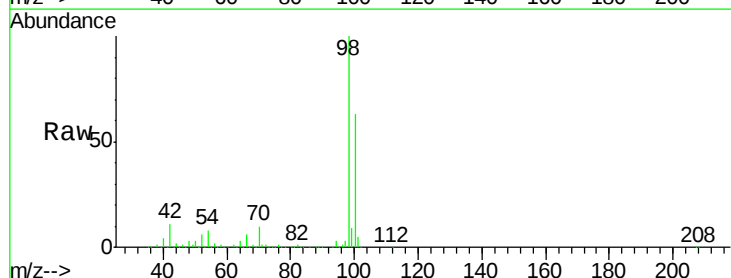
Manual Integrations
APPROVED

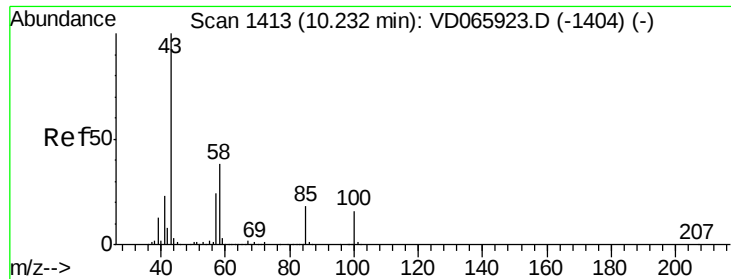
MMDadoda
7/9/2020 10:48:19 AM



#50
Toluene-d8
Concen: 47.614 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 98 Resp: 646100
Ion Ratio Lower Upper
98 100
100 65.2 53.1 79.7





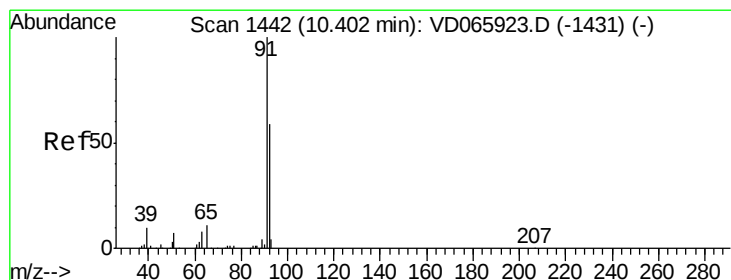
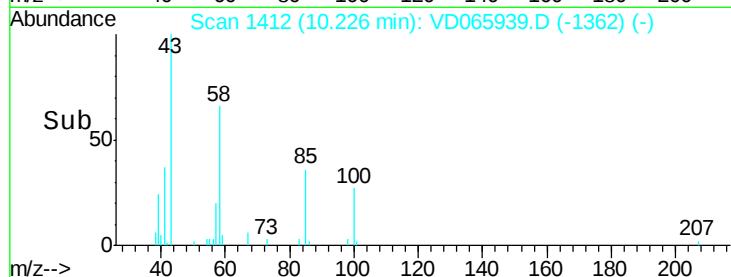
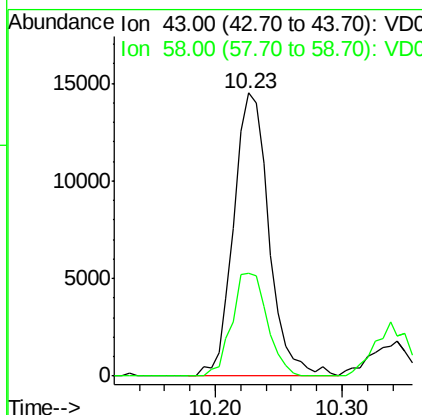
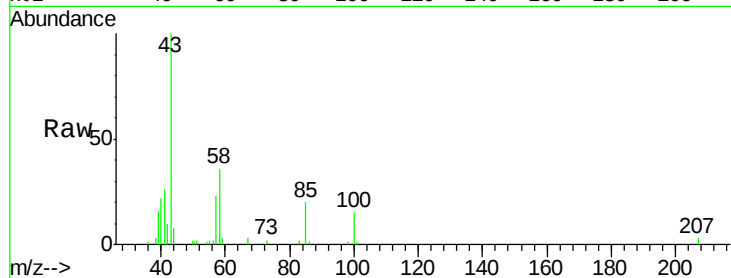
#51
4-Methyl-2-Pentanone
Concen: 11.955 ug/l
RT: 10.23 min Scan# 1412
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 28068
Ion Ratio Lower Upper
43 100
58 36.0 30.5 45.7

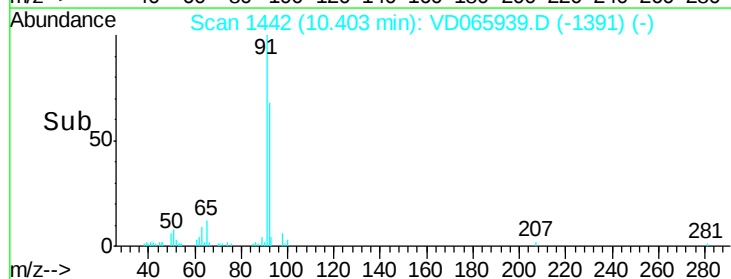
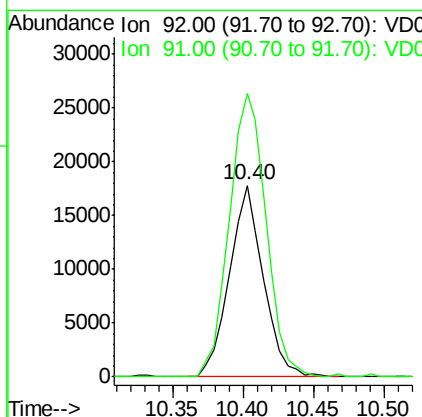
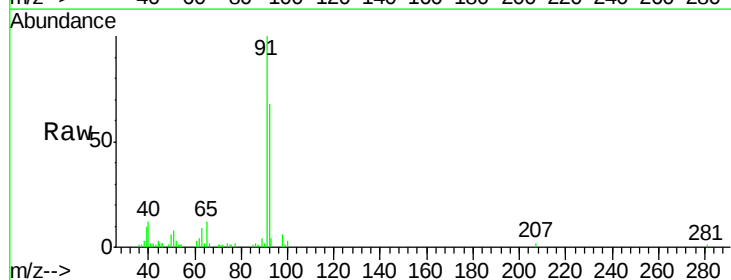
Manual Integrations
APPROVED

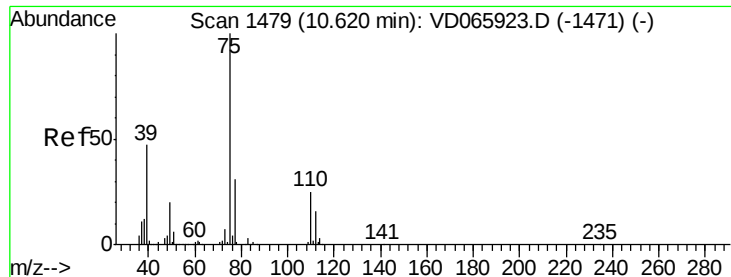
MMDadoda
7/9/2020 10:48:19 AM



#52
Toluene
Concen: 2.843 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 92 Resp: 29755
Ion Ratio Lower Upper
92 100
91 160.6 136.0 204.0





#53

t-1,3-Dichloropropene

Concen: 2.608 ug/l

RT: 10.61 min Scan# 1478

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 75 Resp: 13981

Ion Ratio Lower Upper

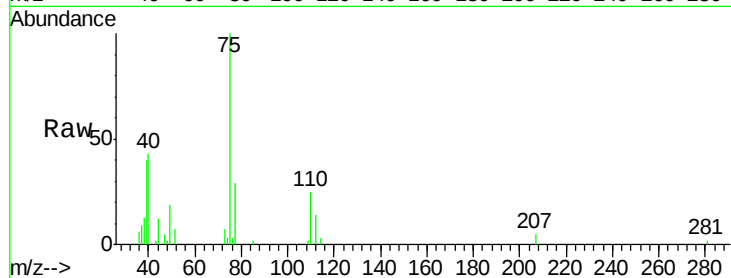
75 100

77 29.1 25.1 37.7

Manual Integrations
APPROVED

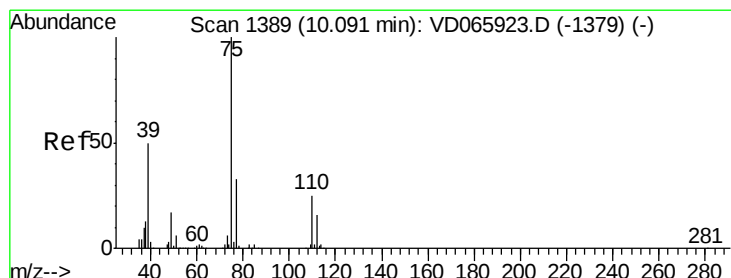
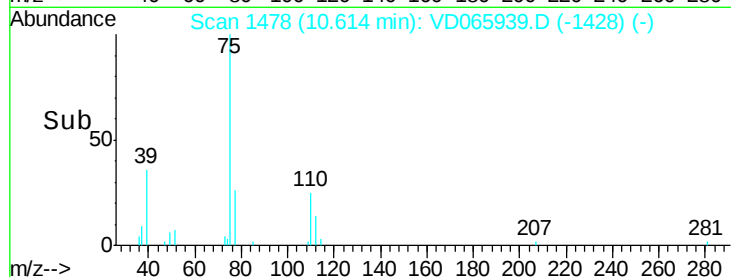
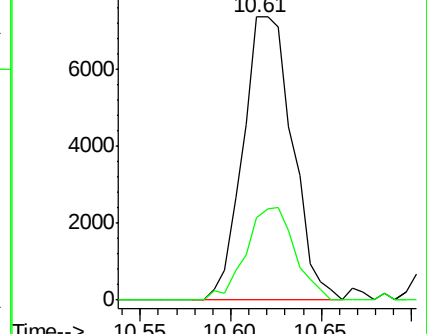
MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 2.362 ug/l

RT: 10.08 min Scan# 1388

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

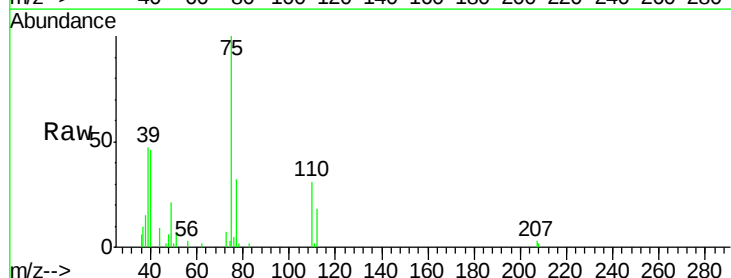
Tgt Ion: 75 Resp: 15301

Ion Ratio Lower Upper

75 100

77 31.9 26.6 39.8

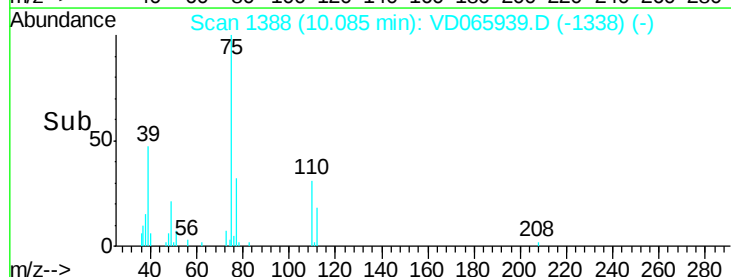
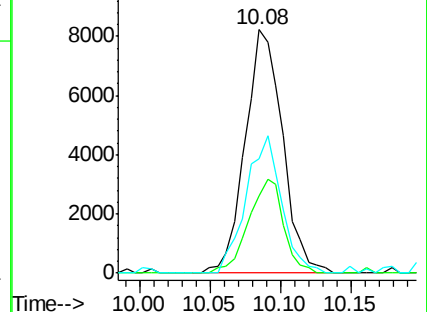
39 46.9 39.6 59.4

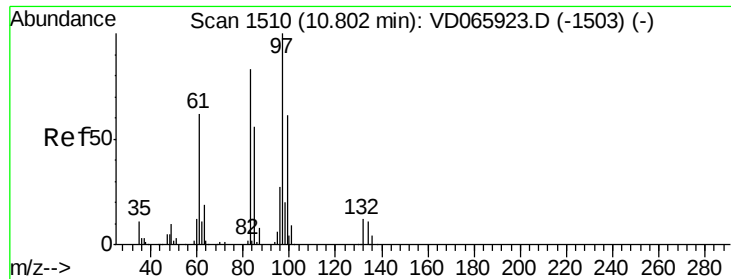


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC





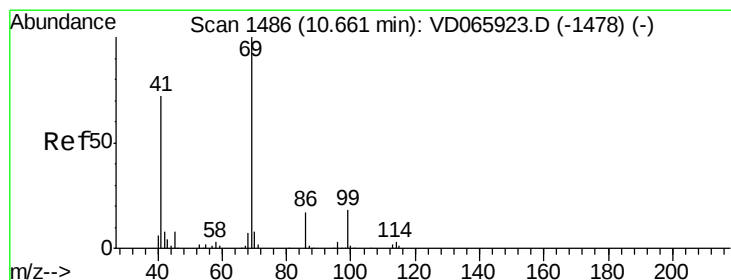
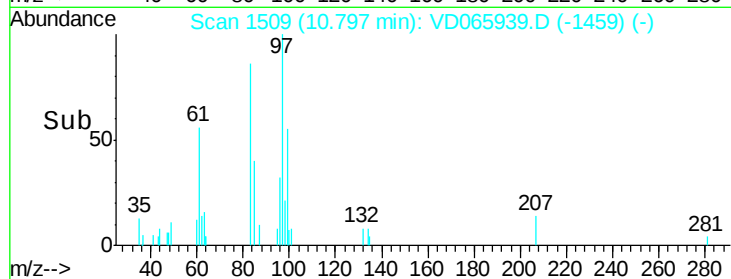
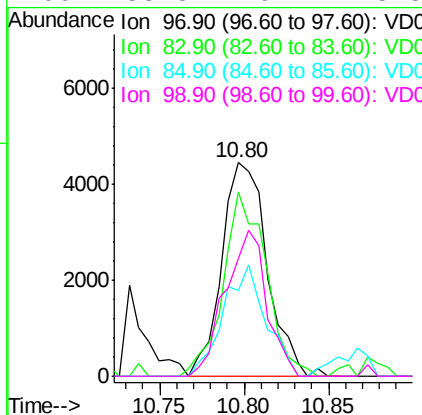
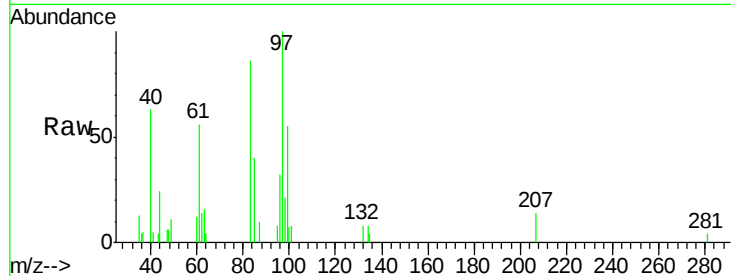
#55
 1,1,2-Trichloroethane
 Concen: 2.842 ug/l
 RT: 10.80 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion:	97	Resp:	8323
Ion	Ratio	Lower	Upper
97	100		
83	82.6	66.9	100.3
85	40.4	44.5	66.7
99	55.3	49.2	73.8

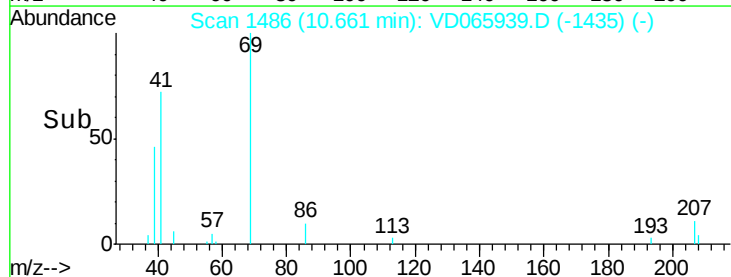
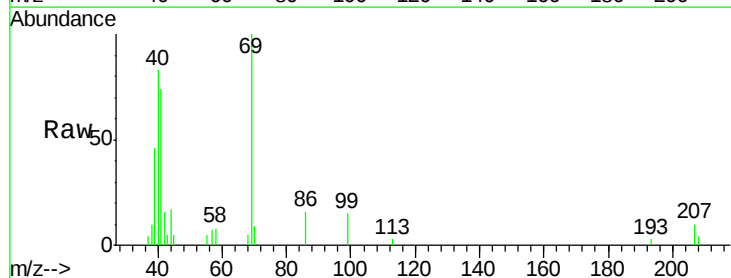
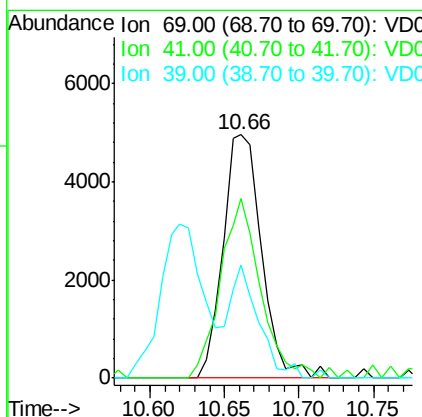
Manual Integrations
 APPROVED

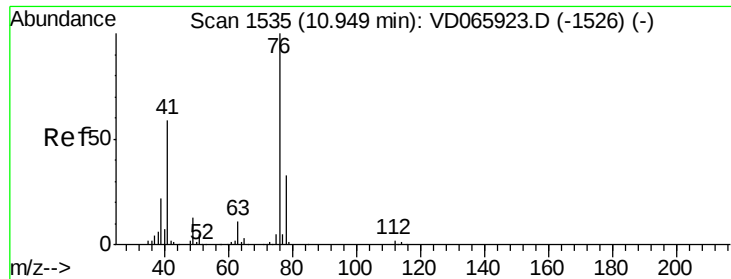
MMDadoda
 7/9/2020 10:48:19 AM



#56
 Ethyl methacrylate
 Concen: 2.509 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion:	69	Resp:	8975
Ion	Ratio	Lower	Upper
69	100		
41	76.1	56.5	84.7
39	37.1	29.2	43.8





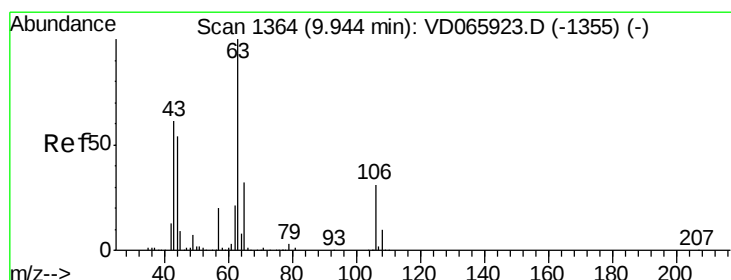
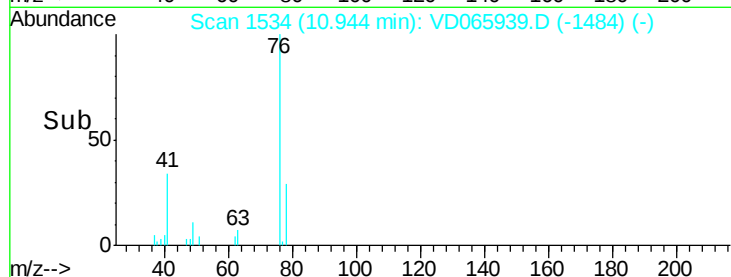
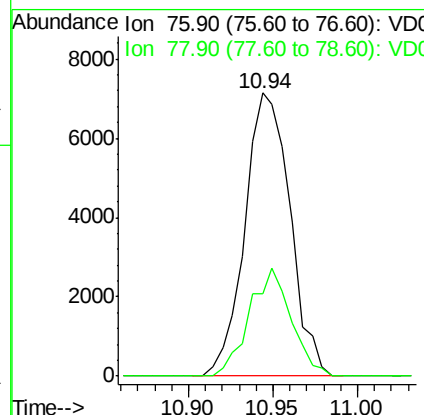
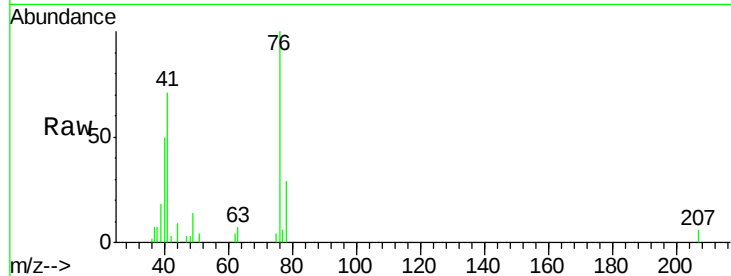
#57
 1,3-Dichloropropane
 Concen: 2.588 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion: 76 Resp: 13253
 Ion Ratio Lower Upper
 76 100
 78 35.2 25.8 38.6

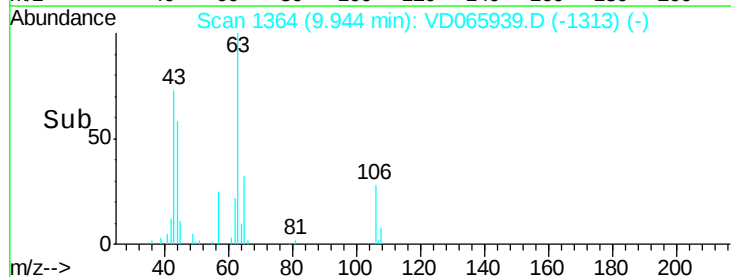
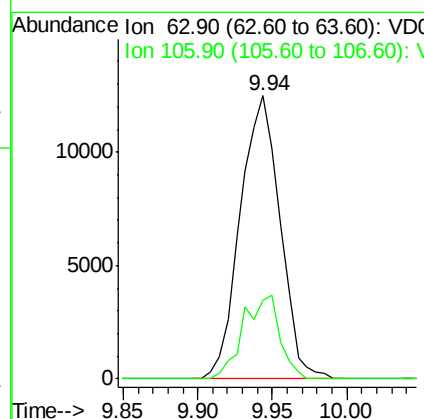
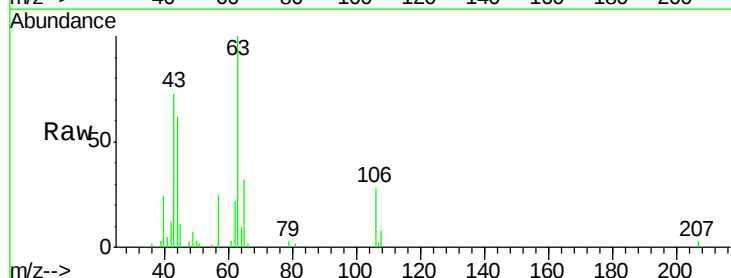
Manual Integrations
 APPROVED

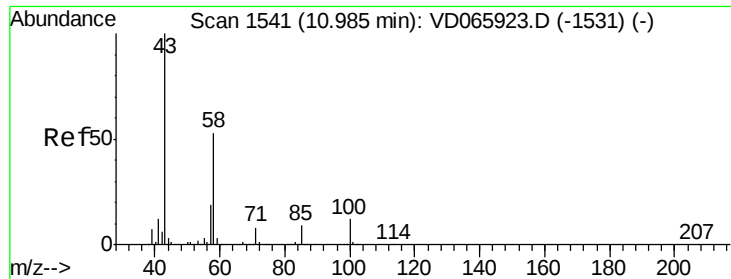
MMDadoda
 7/9/2020 10:48:19 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 13.371 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 63 Resp: 23163
 Ion Ratio Lower Upper
 63 100
 106 27.2 23.8 35.6





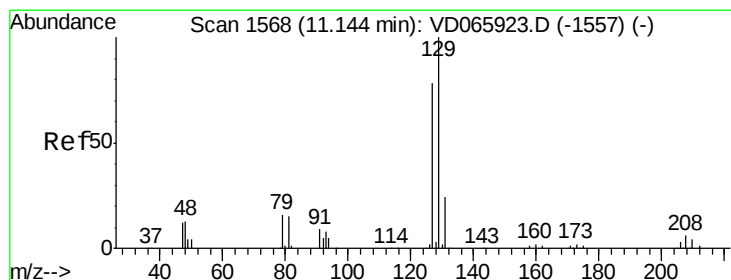
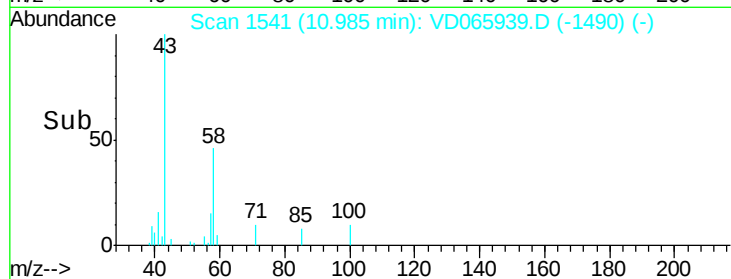
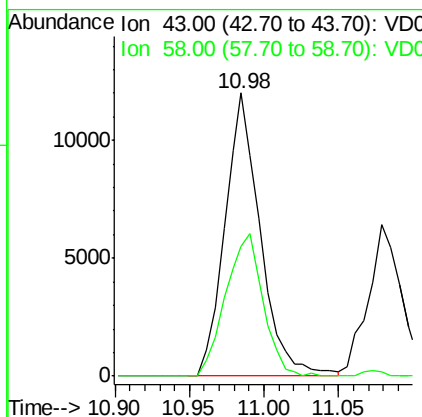
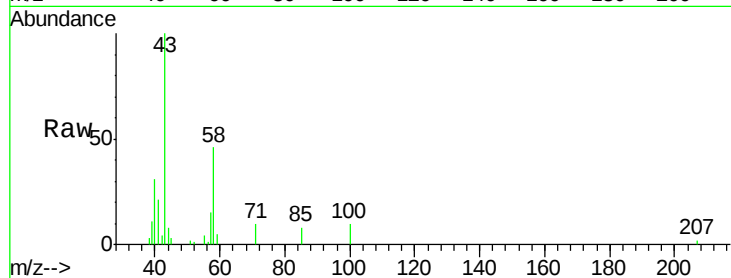
#59
2-Hexanone
Concen: 12.273 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 19816
Ion Ratio Lower Upper
43 100
58 52.9 26.6 79.8

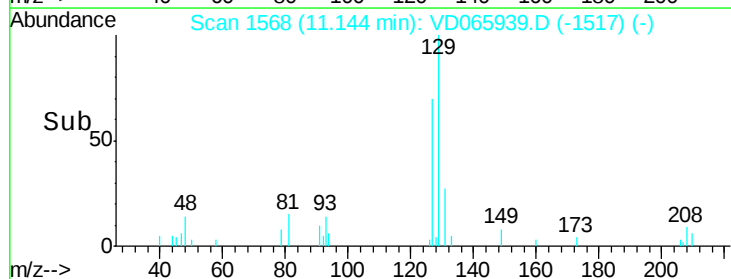
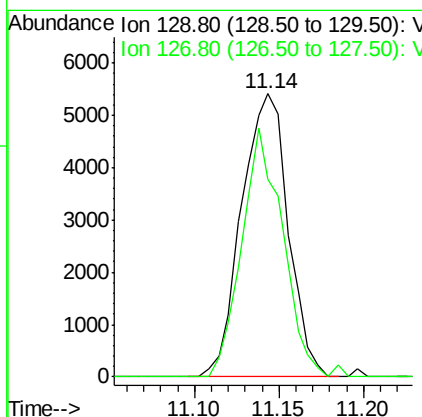
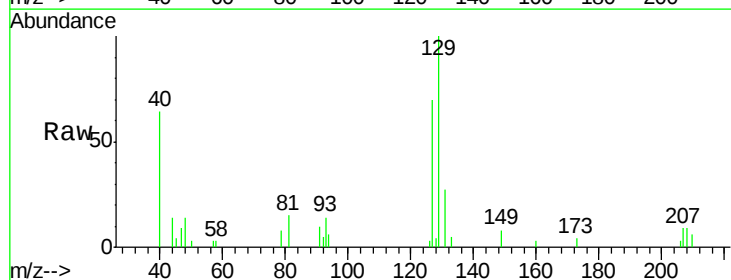
Manual Integrations
APPROVED

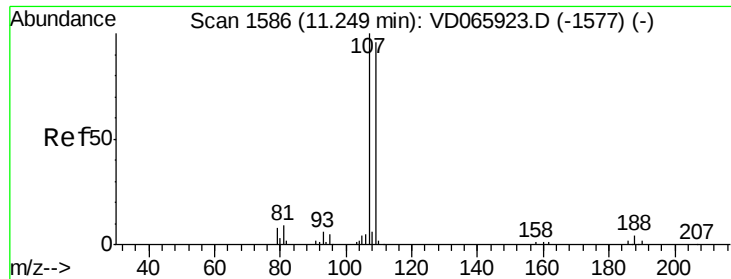
MMDadoda
7/9/2020 10:48:19 AM



#60
Dibromochloromethane
Concen: 2.590 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 129 Resp: 10361
Ion Ratio Lower Upper
129 100
127 77.0 38.8 116.4





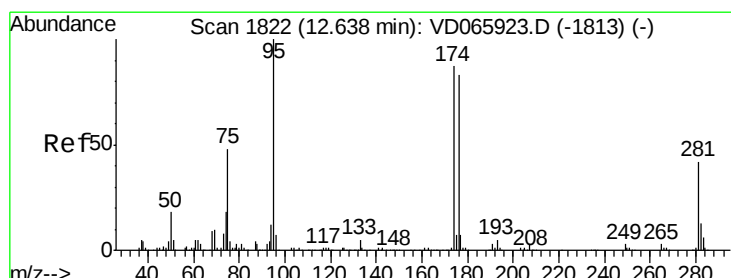
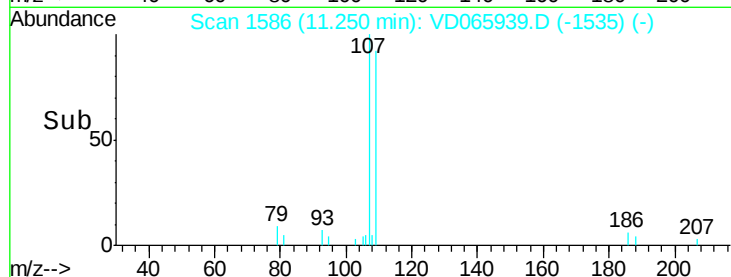
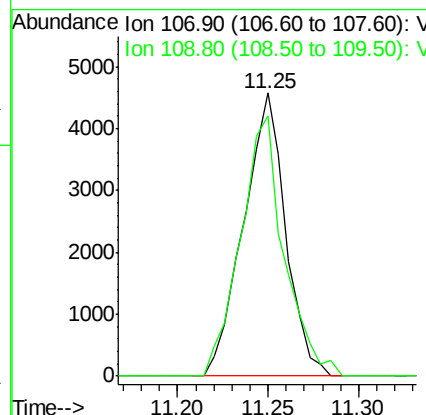
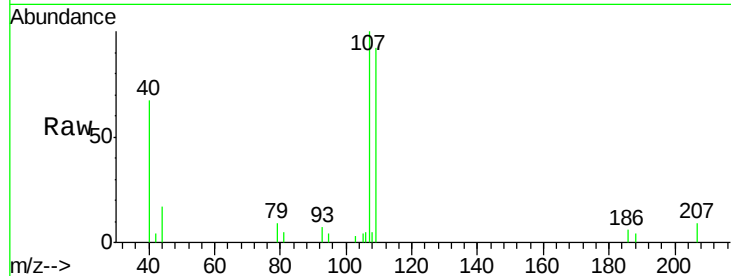
#61
 1,2-Dibromoethane
 Concen: 2.522 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion: 107 Resp: 7364
 Ion Ratio Lower Upper
 107 100
 109 95.1 75.4 113.0

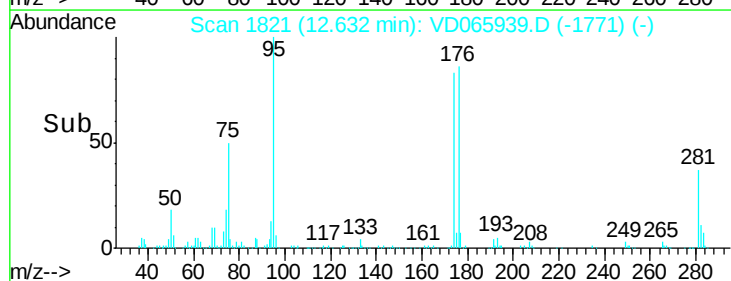
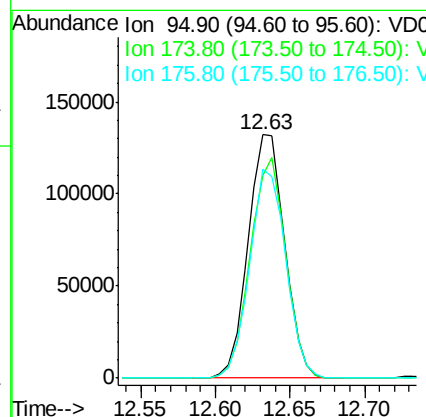
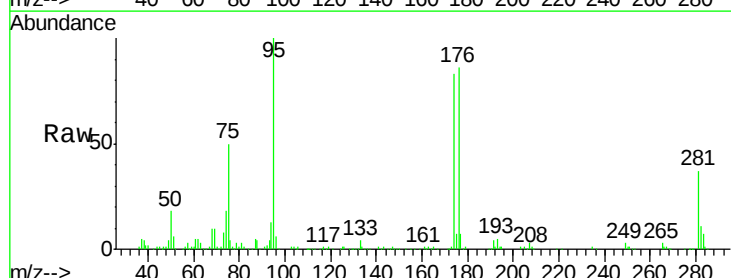
Manual Integrations
 APPROVED

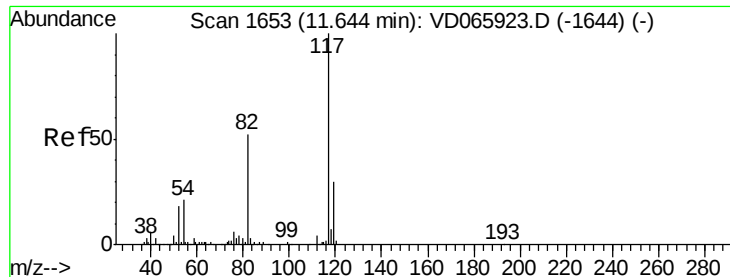
MMDadoda
 7/9/2020 10:48:19 AM



#62
 4-Bromofluorobenzene
 Concen: 47.863 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 95 Resp: 223032
 Ion Ratio Lower Upper
 95 100
 174 88.3 0.0 169.4
 176 85.2 0.0 164.0





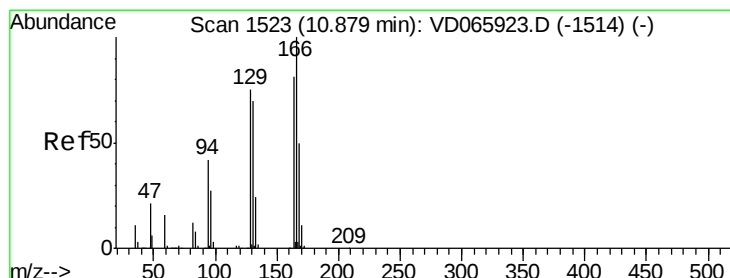
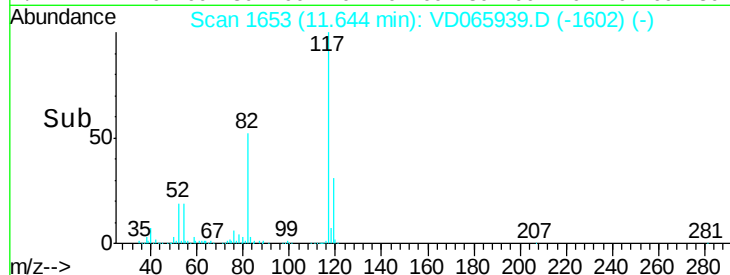
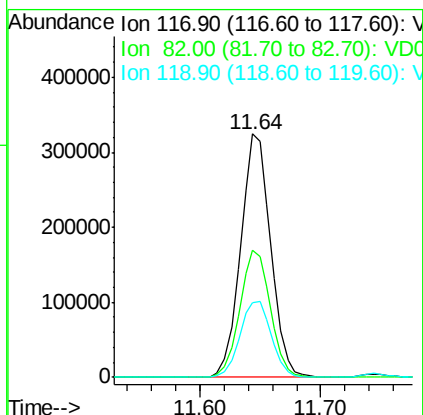
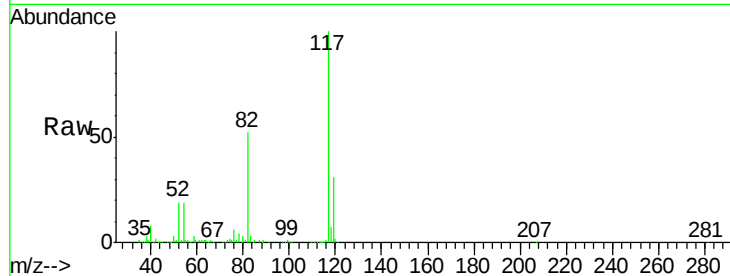
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	41.8	62.8
119	30.6	24.3	36.5

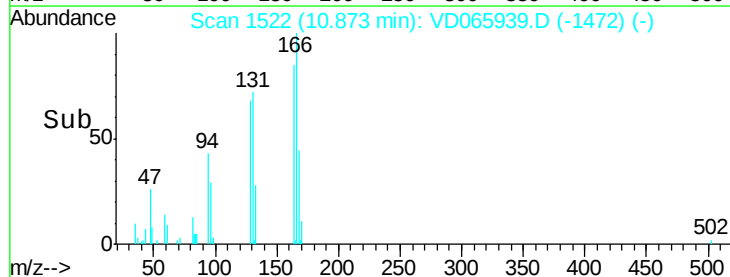
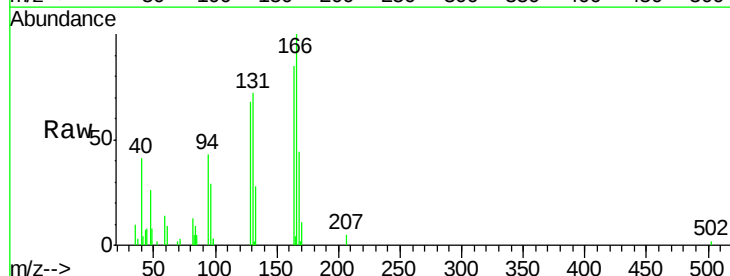
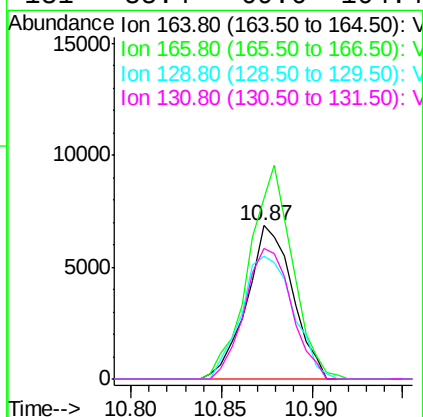
Manual Integrations
APPROVED

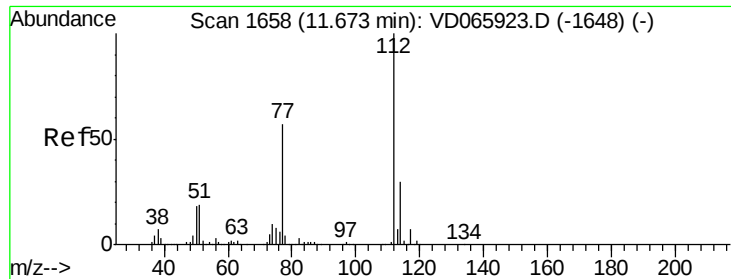
MMDadoda
7/9/2020 10:48:19 AM



#64
Tetrachloroethene
Concen: 2.943 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.0	99.0	148.4
129	79.8	73.9	110.9
131	85.4	69.6	104.4





#65

Chlorobenzene

Concen: 2.766 ug/l

RT: 11.67 min Scan# 1657

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:112 Resp: 31359

Ion Ratio Lower Upper

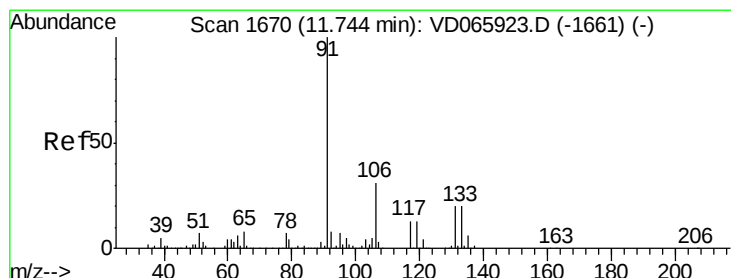
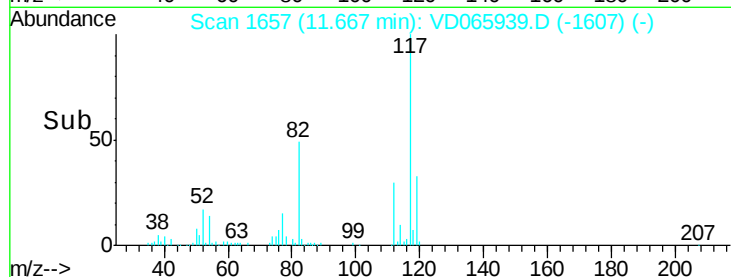
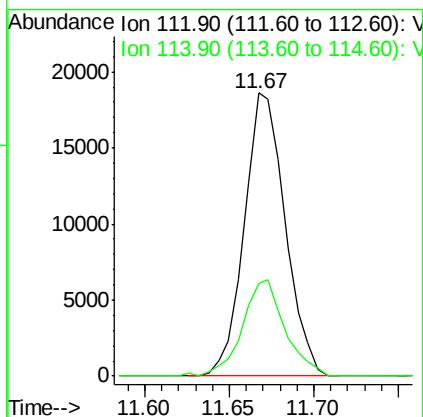
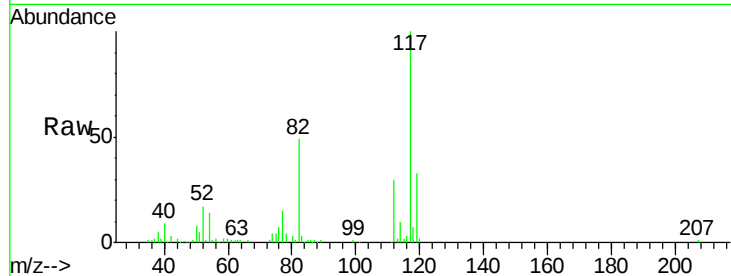
112 100

114 32.7 24.2 36.4

Manual Integrations
APPROVED

MMDadoda

7/9/2020 10:48:19 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 2.526 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

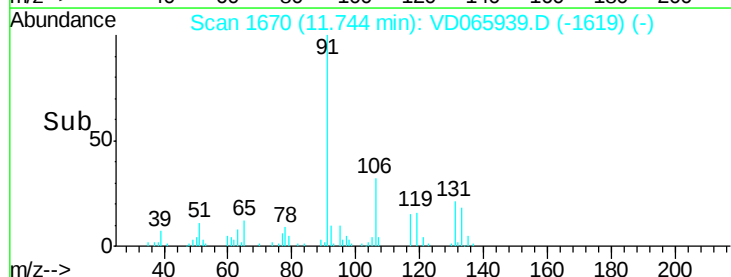
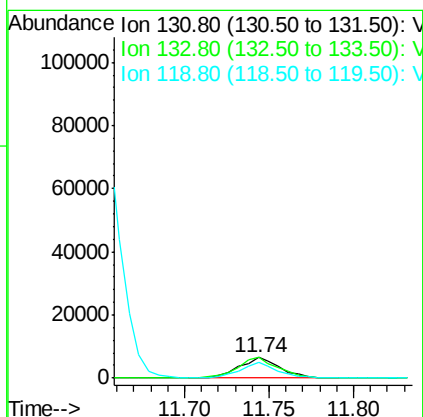
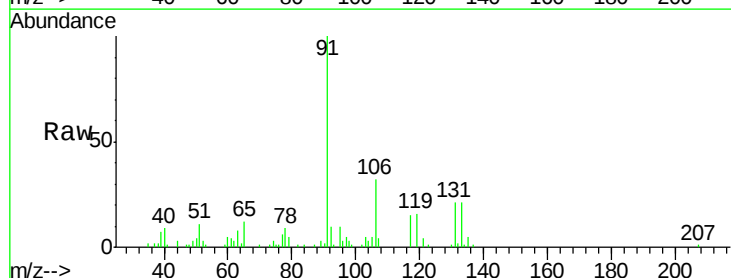
Tgt Ion:131 Resp: 10712

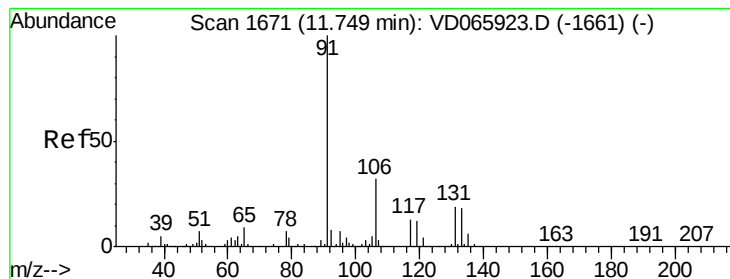
Ion Ratio Lower Upper

131 100

133 104.2 47.9 143.6

119 70.6 31.9 95.9





#67

Ethyl Benzene

Concen: 2.610 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleID :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 91 Resp: 52557

Ion Ratio Lower Upper

91 100

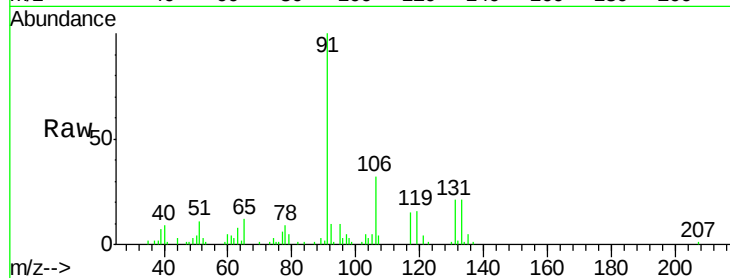
106 31.6 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 91.00 (90.70 to 91.70): VD065939.D (-1661) (-)

Ion 106.00 (105.70 to 106.70): VD065939.D (-1661) (-)

11.74

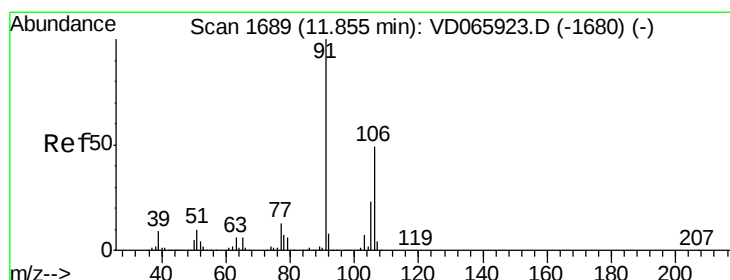
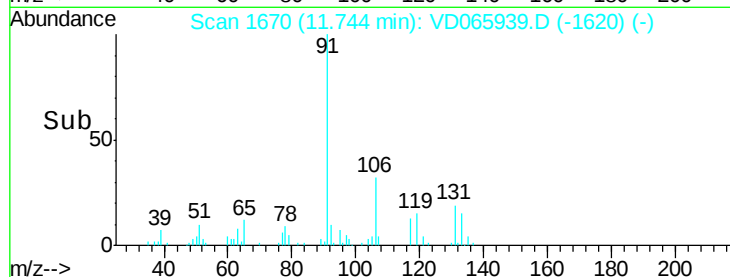
30000

20000

10000

0

Time-->



#68

m/p-Xylenes

Concen: 5.010 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD065939.D

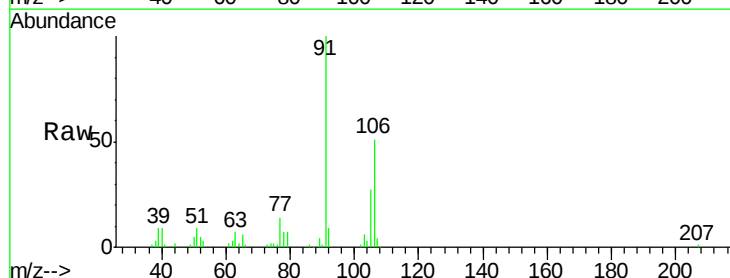
Acq: 08 Jul 2020 14:43

Tgt Ion: 106 Resp: 38335

Ion Ratio Lower Upper

106 100

91 203.7 158.2 237.2



Abundance Ion 106.00 (105.70 to 106.70): VD065939.D (-1680) (-)

Ion 91.00 (90.70 to 91.70): VD065939.D (-1680) (-)

11.86

40000

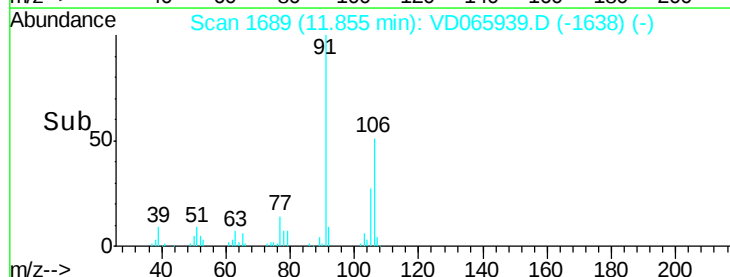
30000

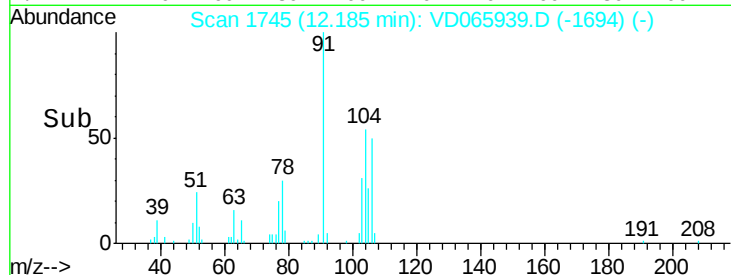
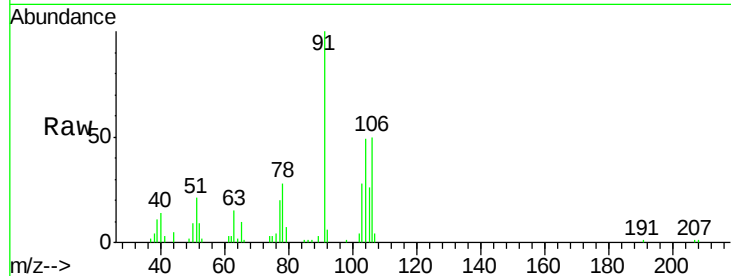
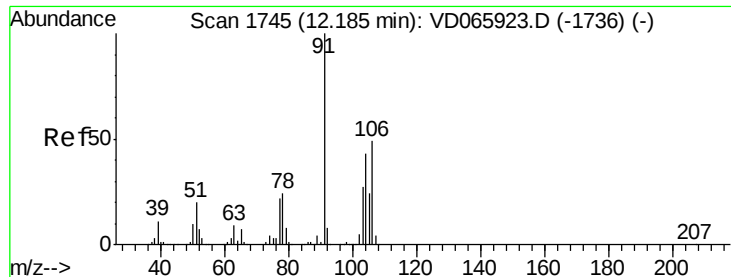
20000

10000

0

Time-->





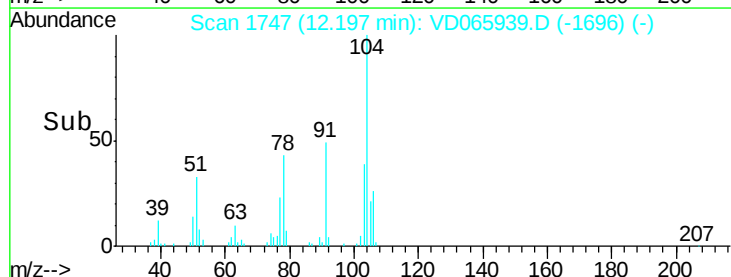
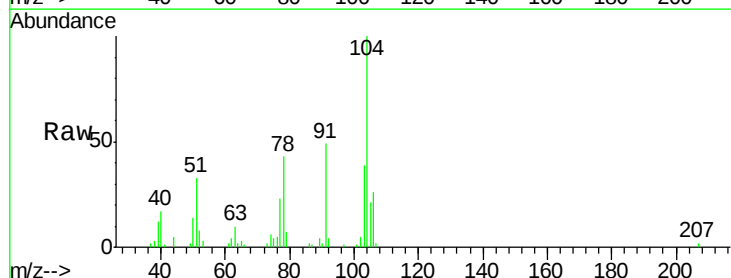
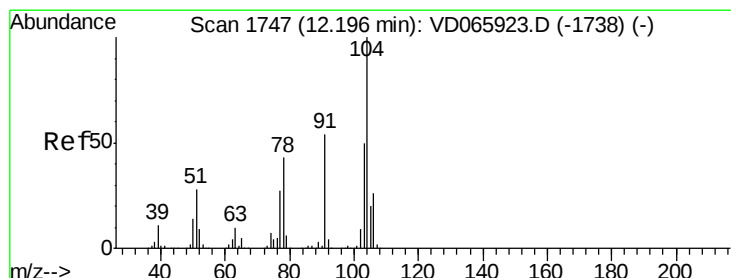
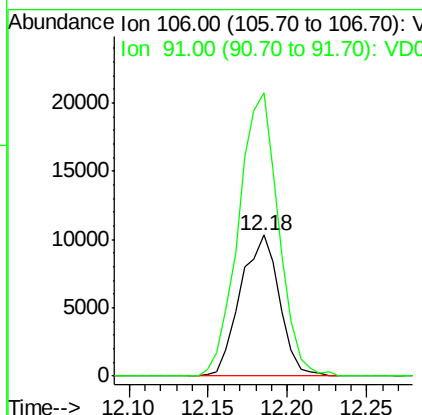
#69
o-Xylene
Concen: 2.531 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tot Ion:106 Resp: 17641
Ion Ratio Lower Upper
106 100
91 205.2 104.1 312.2

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

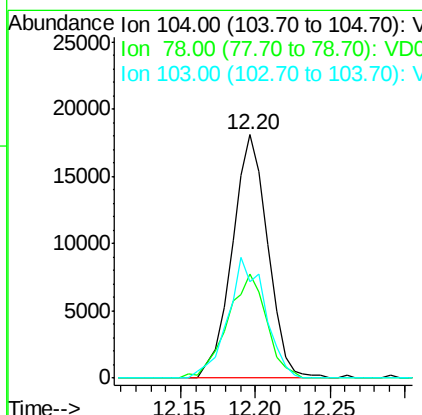
Manual Integrations
APPROVED

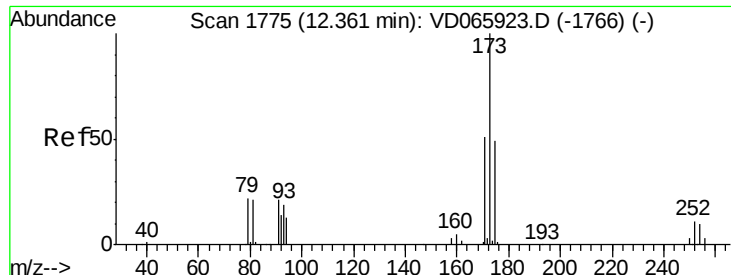
MMDadoda
7/9/2020 10:48:19 AM



#70
Styrene
Concen: 2.488 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:104 Resp: 29932
Ion Ratio Lower Upper
104 100
78 47.2 38.8 58.2
103 51.7 43.6 65.4





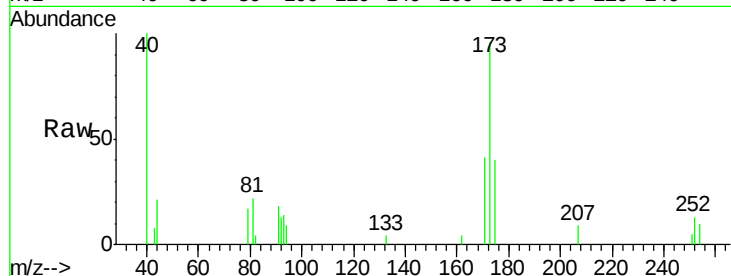
#71
Bromoform
Concen: 2.690 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

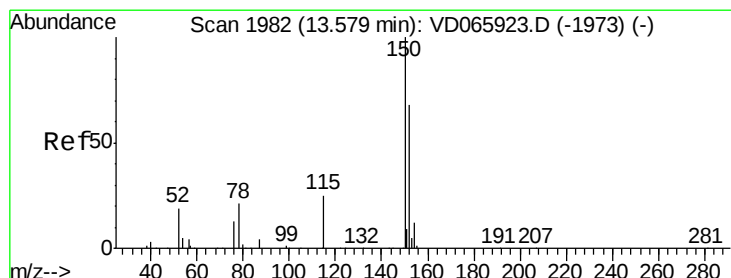
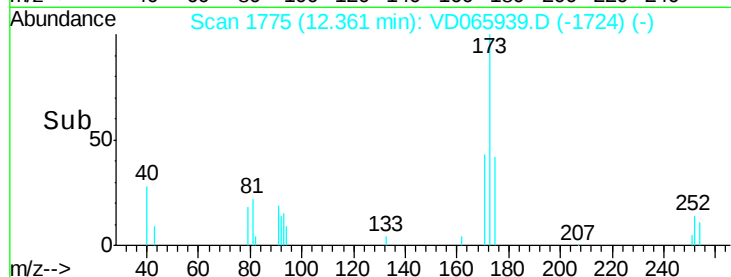
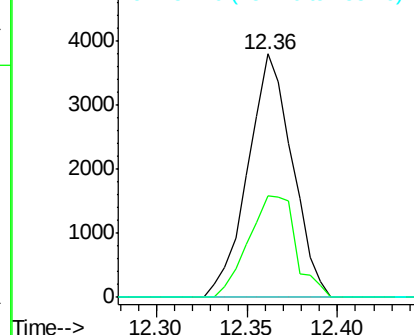
Tot Ion	Ratio	Lower	Upper
173	100		
175	44.5	24.2	72.6
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM

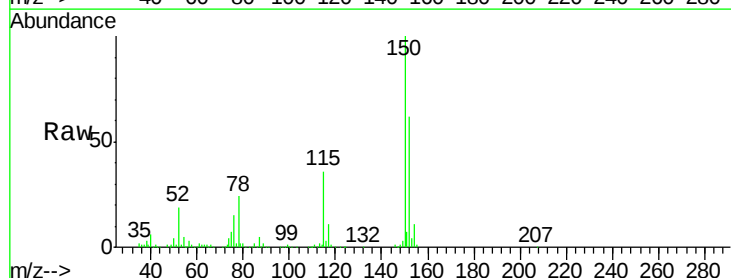


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

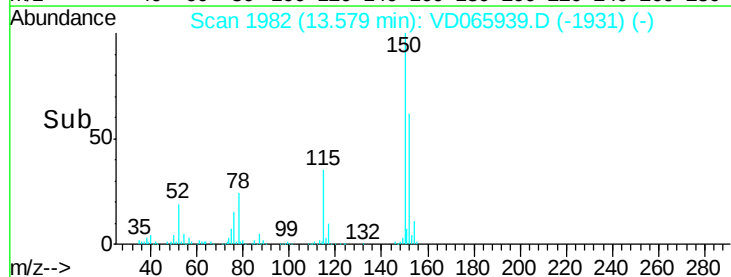
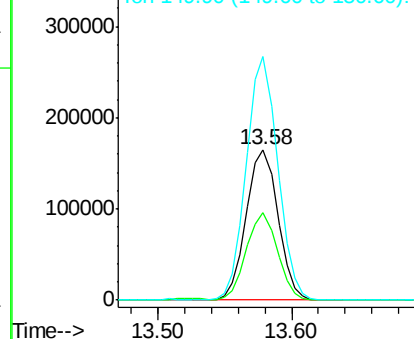


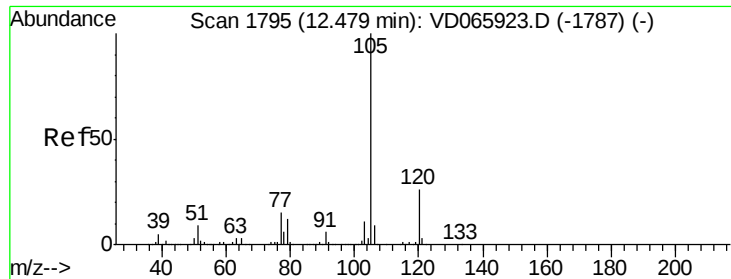
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	27.8	83.3
150	160.1	0.0	347.2



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





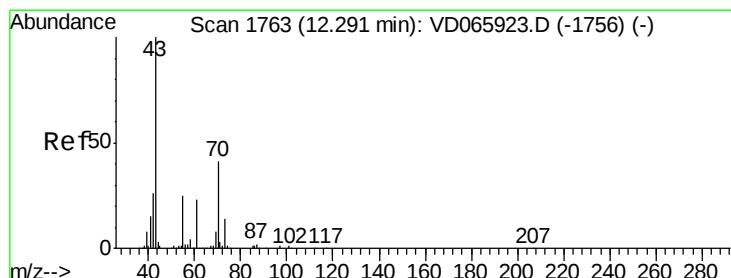
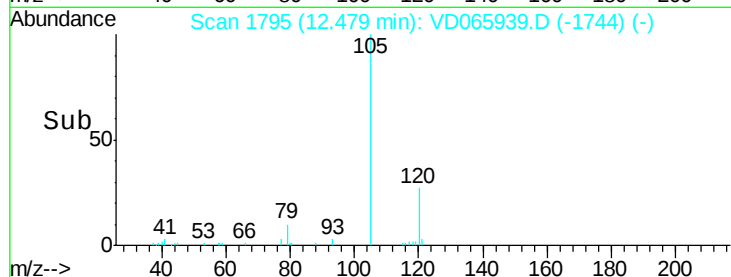
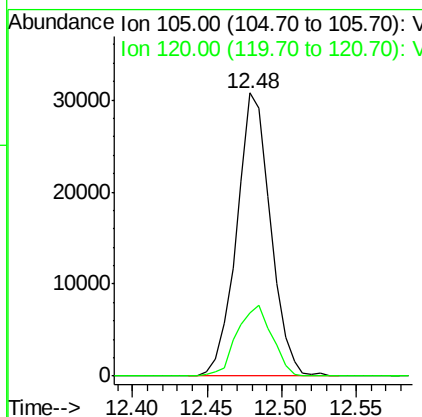
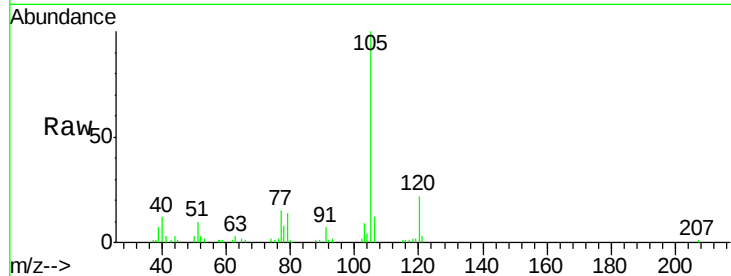
#73
Isopropylbenzene
Concen: 2.552 ug/l
RT: 12.48 min Scan# 1795
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.3	39.8

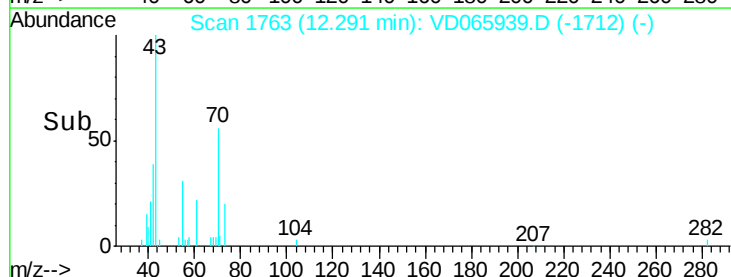
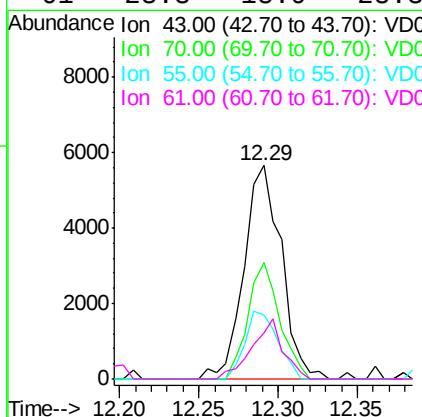
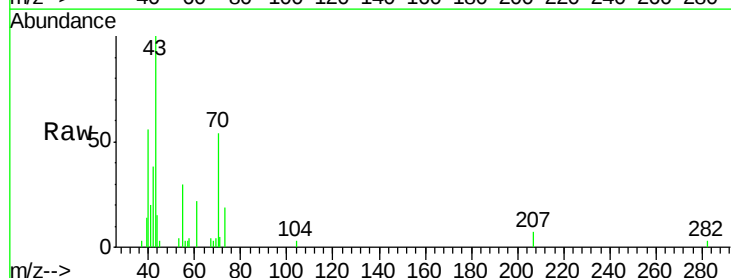
Manual Integrations
APPROVED

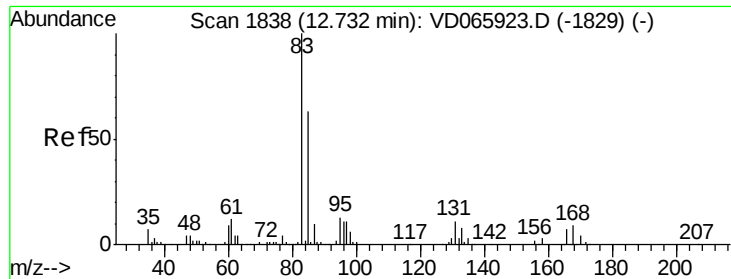
MMDadoda
7/9/2020 10:48:19 AM



#74
N-ethyl acetate
Concen: 2.177 ug/l
RT: 12.29 min Scan# 1763
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
43	100		
70	46.4	33.6	50.4
55	27.9	20.1	30.1
61	23.3	18.9	28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 2.686 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

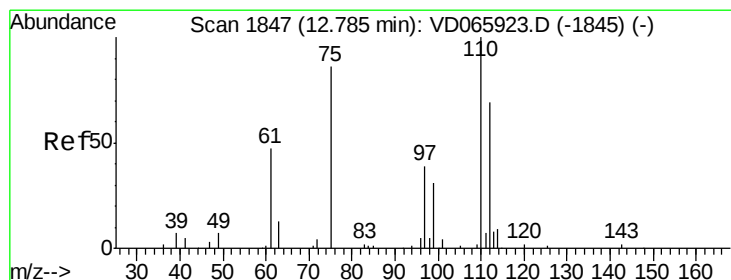
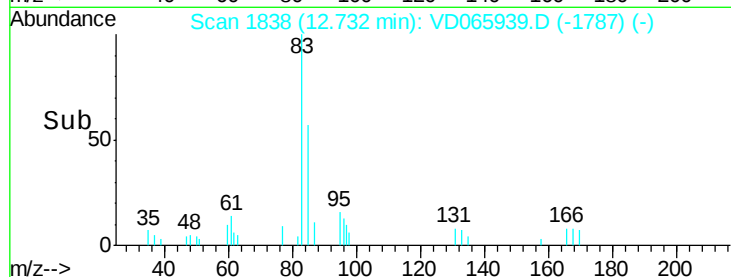
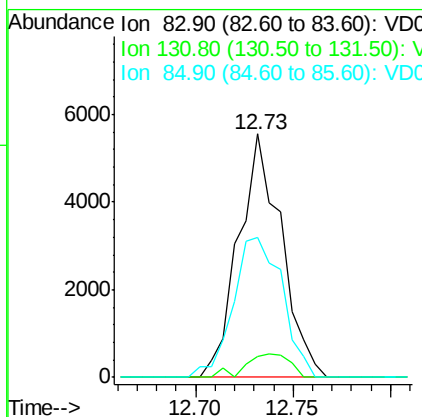
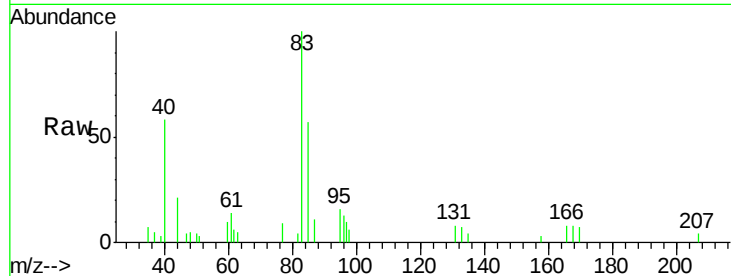
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:	83	Resp:	8451
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.6	16.8
85	66.0	32.6	98.0

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#76

1,2,3-Trichloropropane

Concen: 3.124 ug/l m

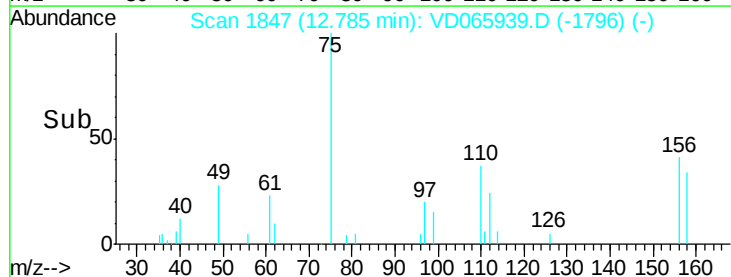
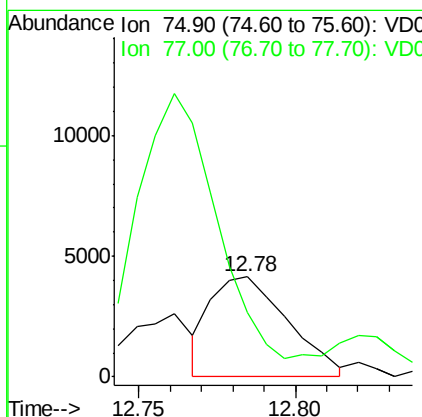
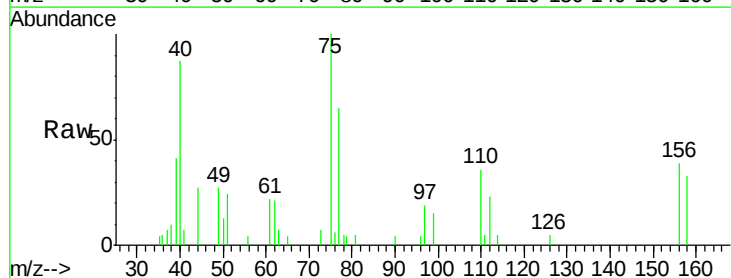
RT: 12.78 min Scan# 1847

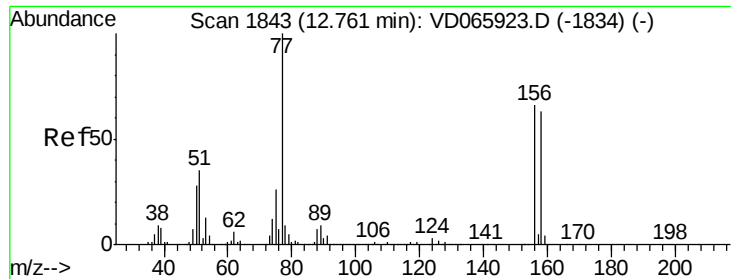
Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion:	75	Resp:	7115
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.706 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

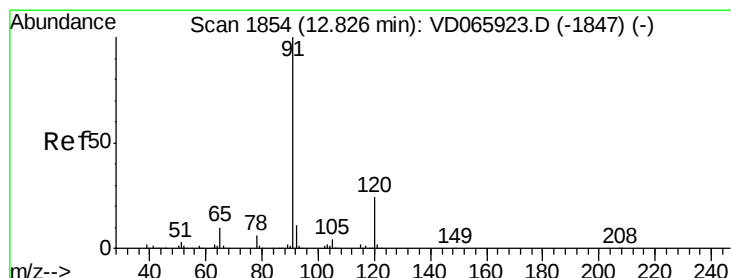
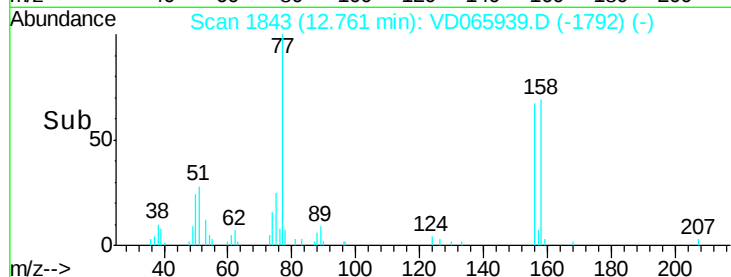
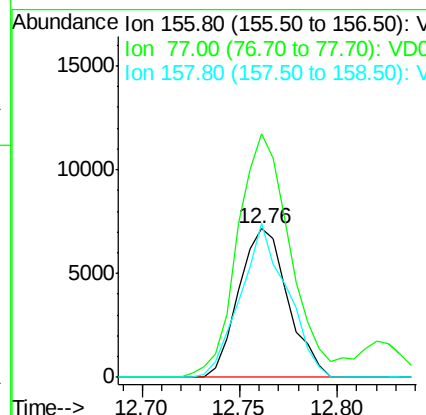
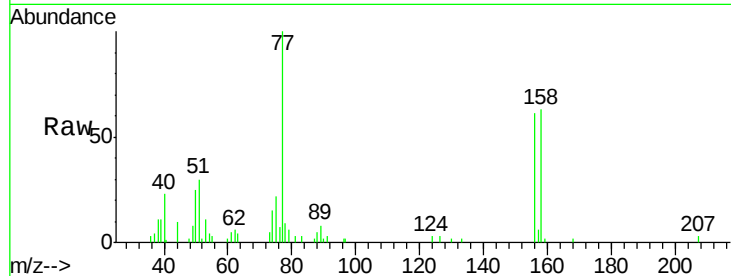
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:156 Resp: 12439
 Ion Ratio Lower Upper
 156 100
 77 174.5 85.0 255.0
 158 98.4 49.0 147.0

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 10:48:19 AM



#78

n-propylbenzene

Concen: 2.704 ug/l

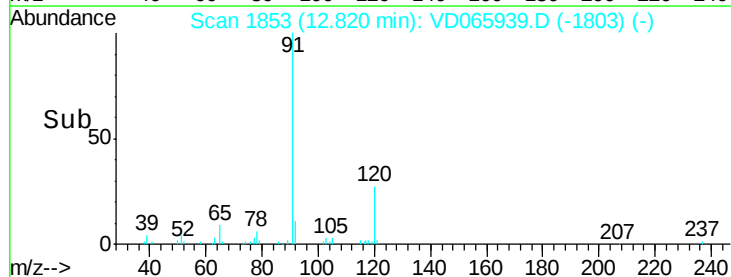
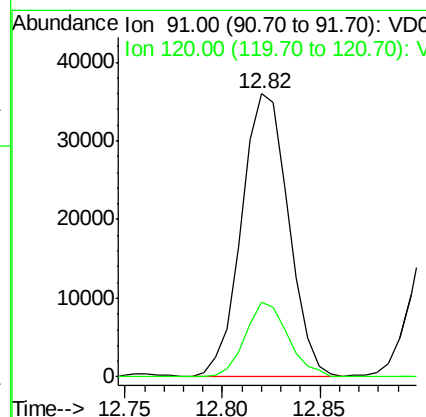
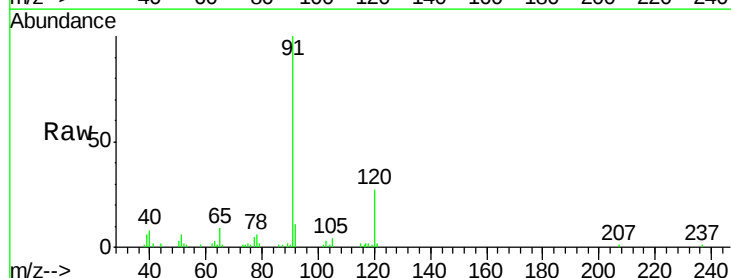
RT: 12.82 min Scan# 1853

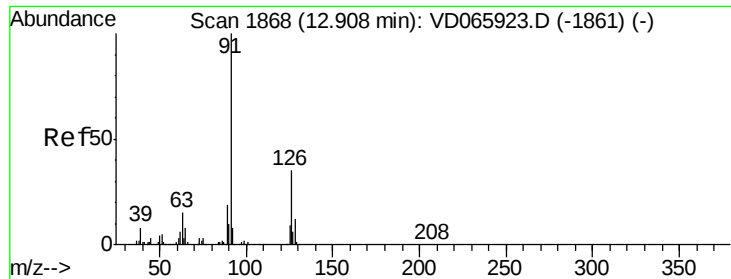
Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion: 91 Resp: 60067
 Ion Ratio Lower Upper
 91 100
 120 24.1 11.8 35.4





#79

2-Chlorotoluene

Concen: 2.764 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 91 Resp: 34845

Ion Ratio Lower Upper

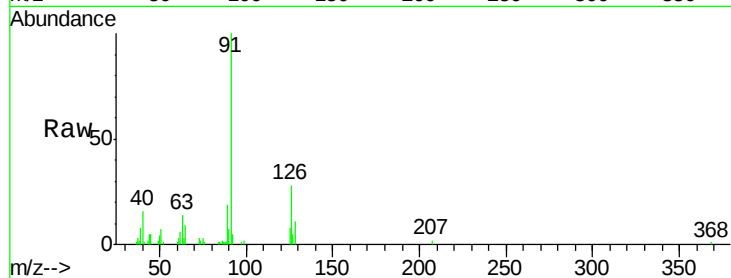
91 100

126 33.1 17.6 52.8

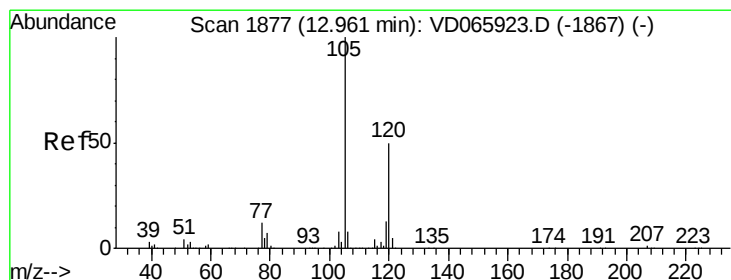
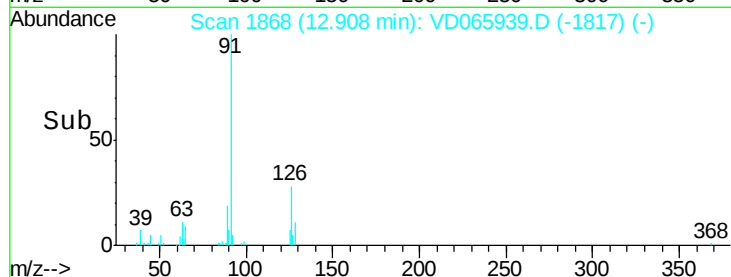
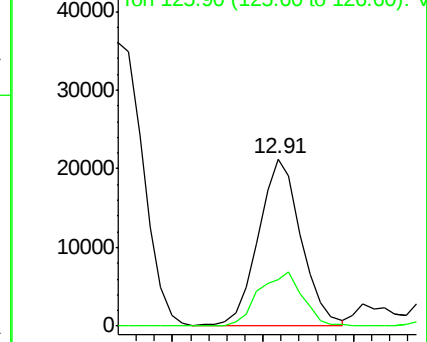
Manual Integrations
APPROVED

MMDadoda

7/9/2020 10:48:19 AM



Abundance Ion 91.00 (90.70 to 91.70): VD065923.D (-1861) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.535 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD065939.D

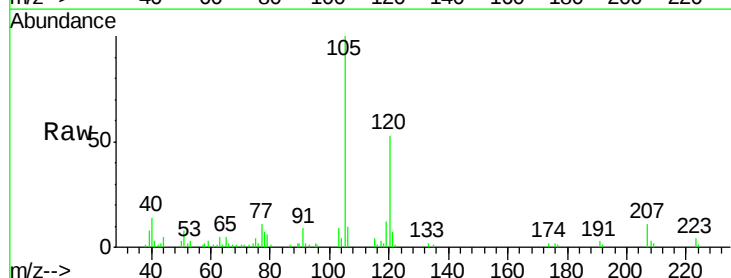
Acq: 08 Jul 2020 14:43

Tgt Ion: 105 Resp: 39301

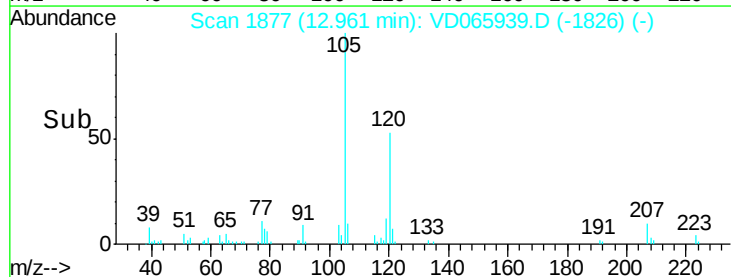
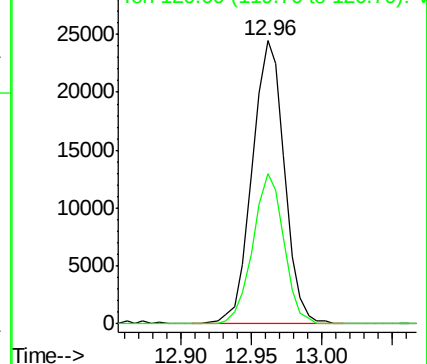
Ion Ratio Lower Upper

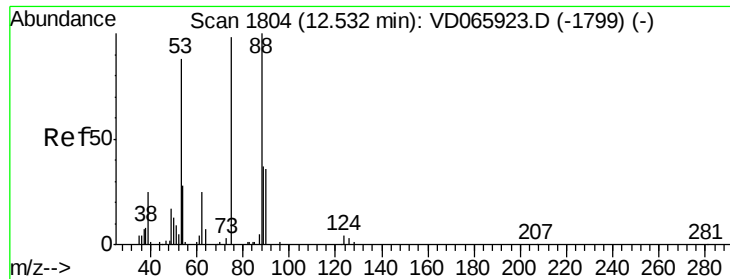
105 100

120 50.7 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): VD065923.D (-1867) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 2.129 ug/l m

RT: 12.54 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

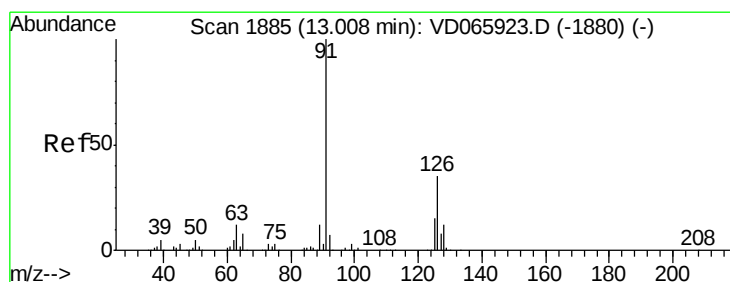
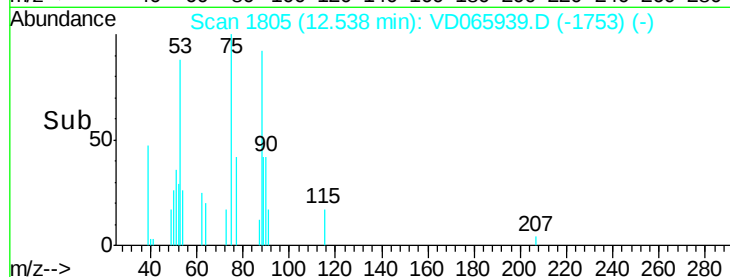
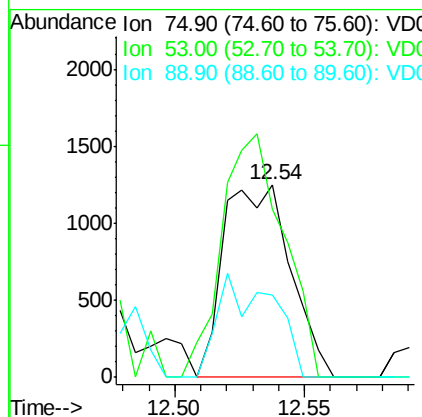
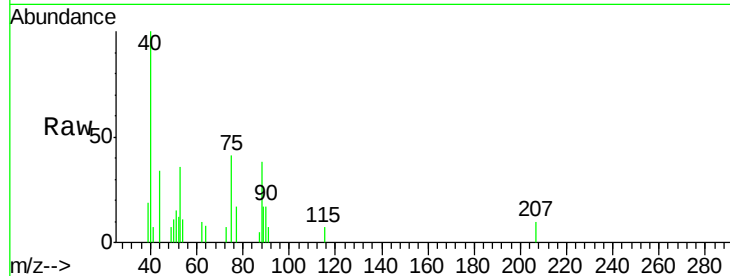
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:	75	Resp:	2257
Ion	Ratio	Lower	Upper
75	100		
53	0.0	75.8	113.8#
89	28.5	37.5	56.3#

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#82

4-Chlorotoluene

Concen: 2.727 ug/l

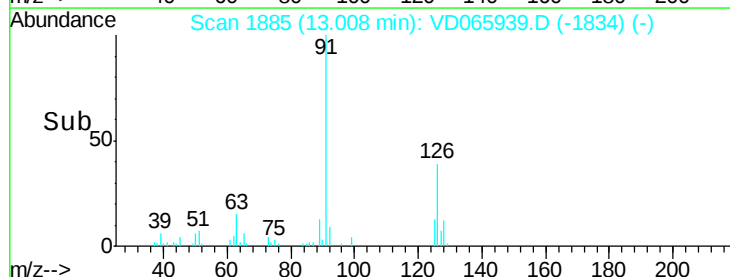
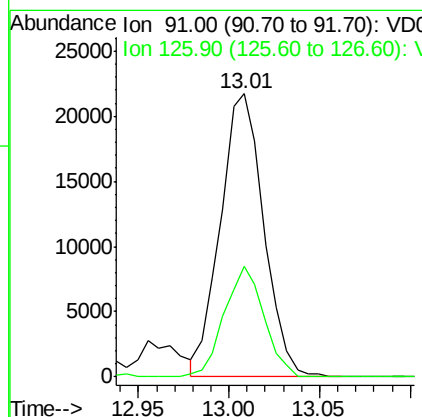
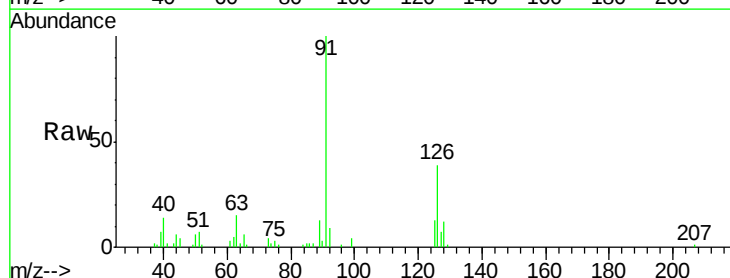
RT: 13.01 min Scan# 1885

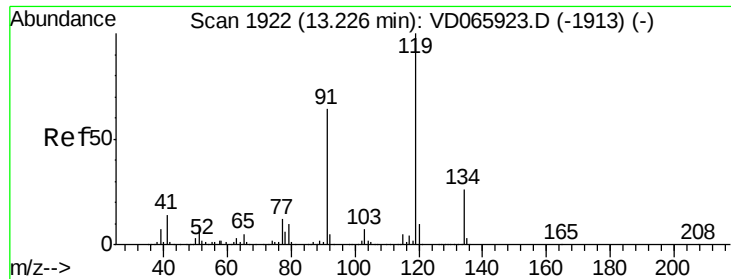
Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion:	91	Resp:	36057
Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	51.7





#83

tert-Butylbenzene

Concen: 2.575 ug/l

RT: 13.23 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

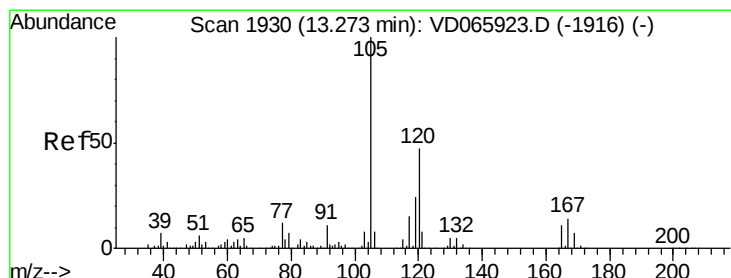
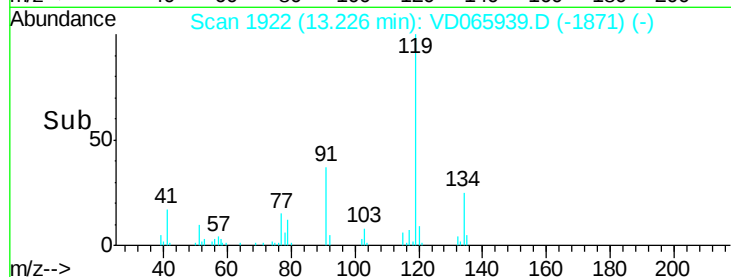
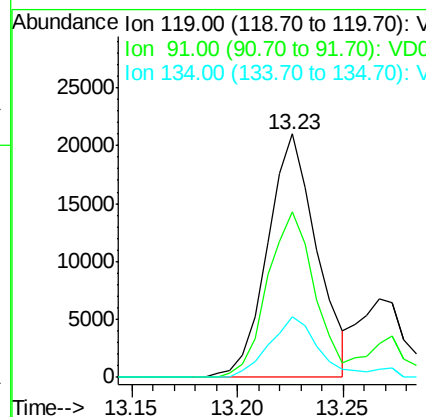
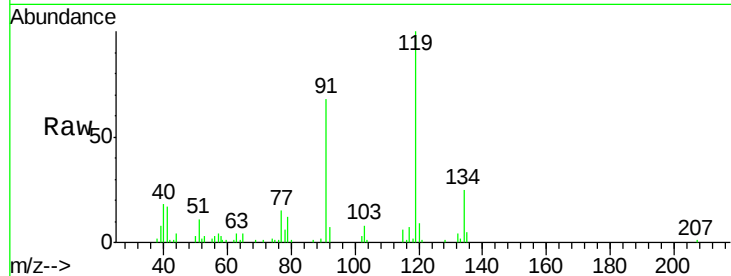
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.0	32.4	97.2
134	24.9	14.1	42.4

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#84

1,2,4-Trimethylbenzene

Concen: 2.477 ug/l

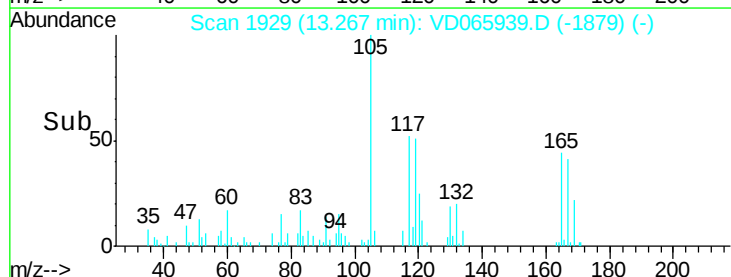
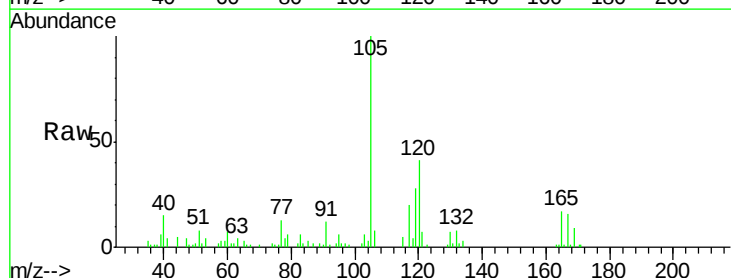
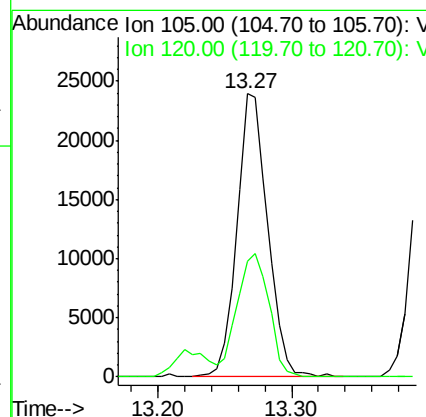
RT: 13.27 min Scan# 1929

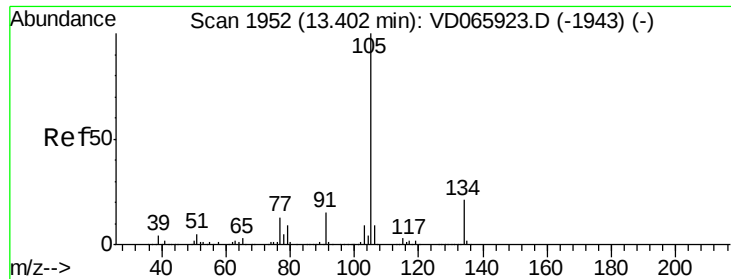
Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.2	69.5





#85

sec-Butylbenzene

Concen: 2.618 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:105 Resp: 48991

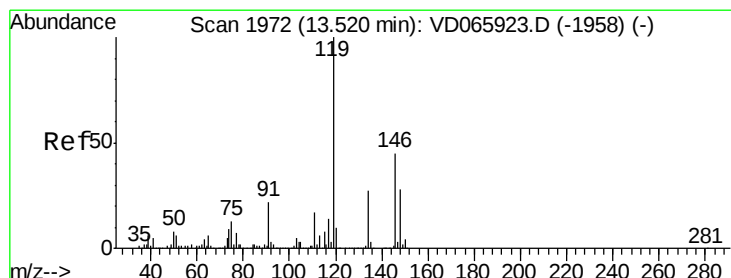
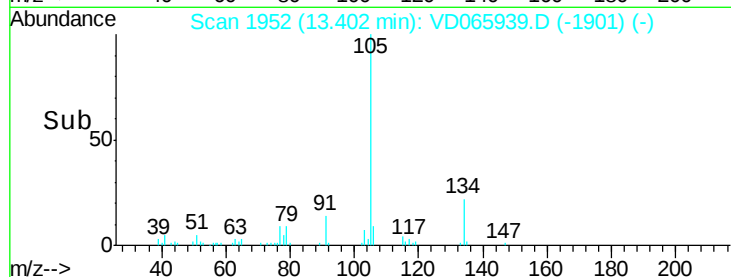
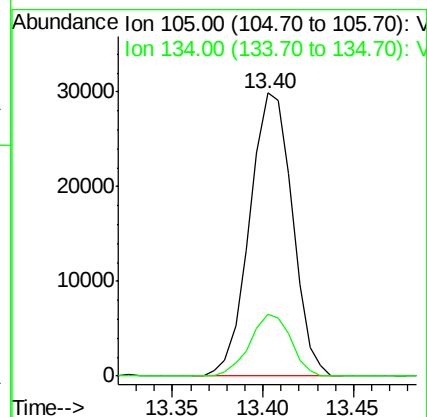
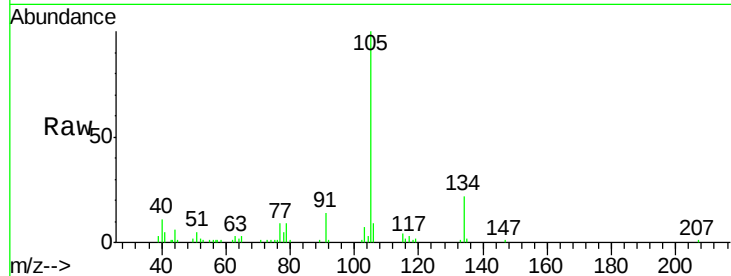
Ion Ratio Lower Upper

105 100

134 20.9 10.4 31.1

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#86

p-Isopropyltoluene

Concen: 2.536 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

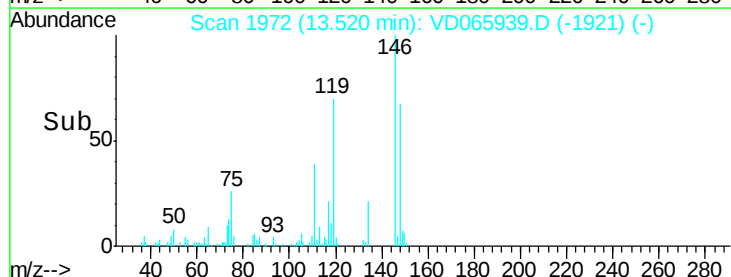
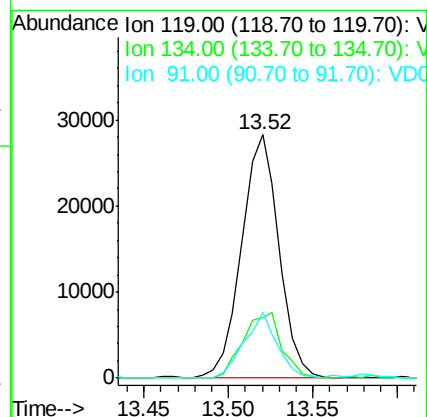
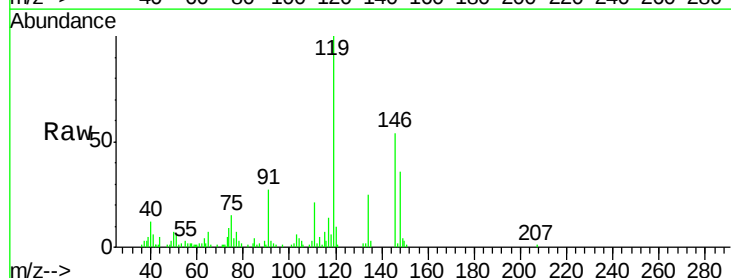
Tgt Ion:119 Resp: 43405

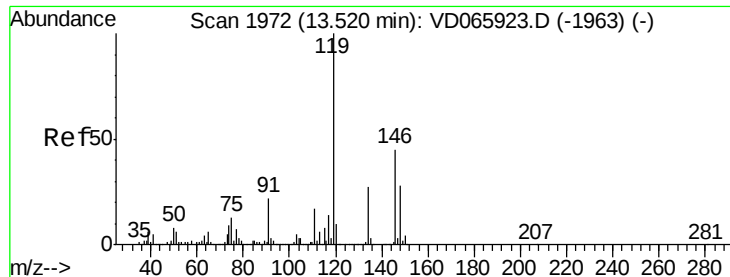
Ion Ratio Lower Upper

119 100

134 27.9 13.4 40.1

91 23.9 11.3 33.8





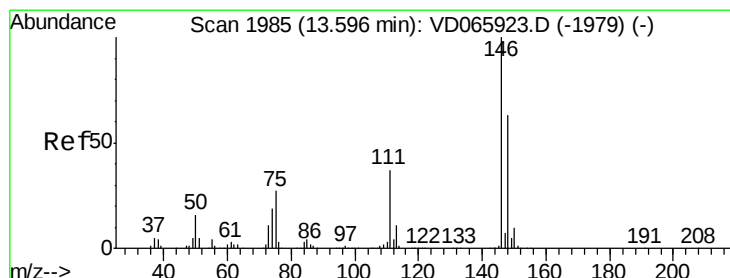
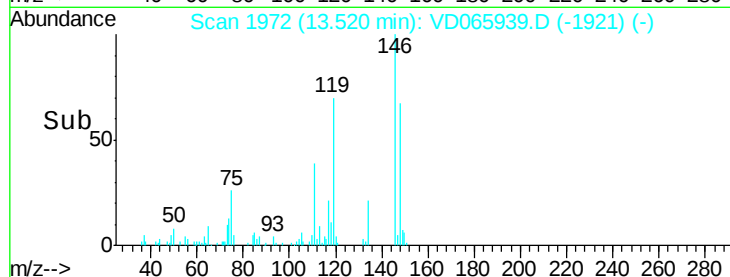
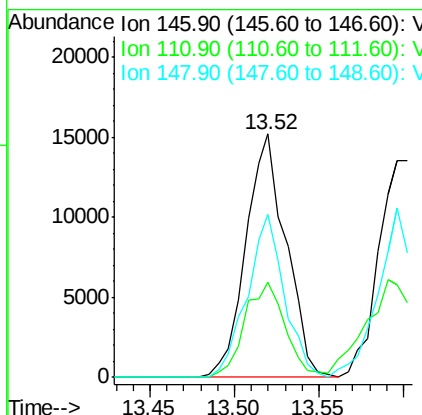
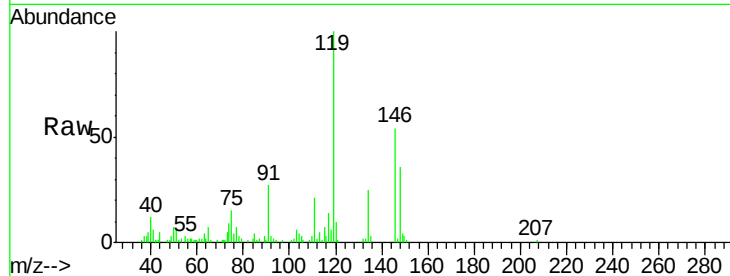
#87
 1,3-Dichlorobenzene
 Concen: 2.914 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.3	57.8
148	62.4	32.0	96.0

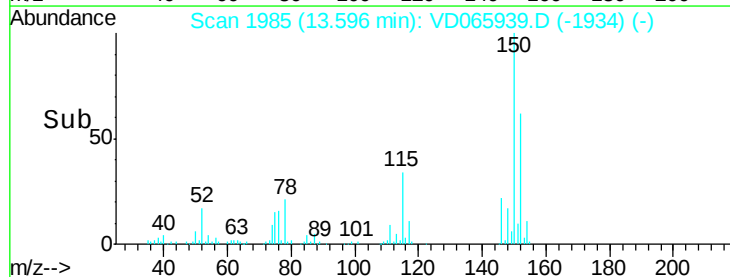
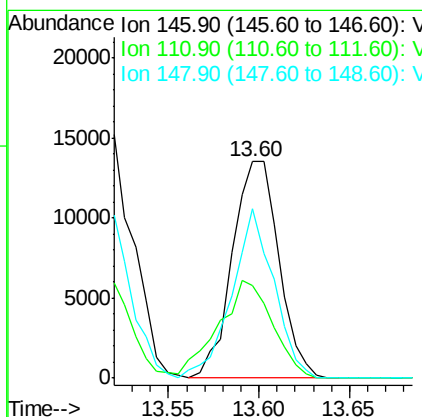
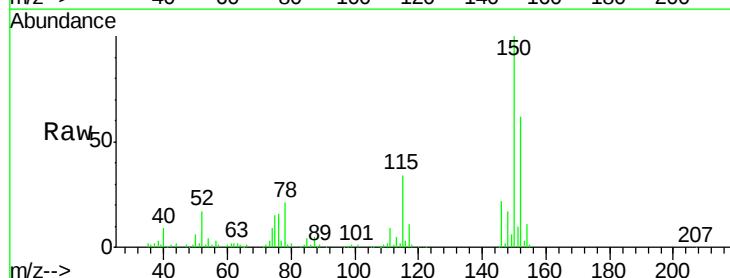
Manual Integrations
 APPROVED

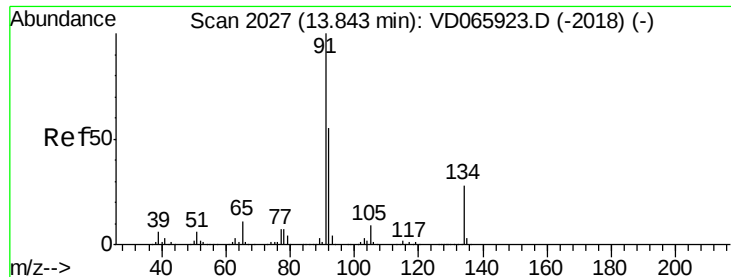
MMDadoda
 7/9/2020 10:48:19 AM



#88
 1,4-Dichlorobenzene
 Concen: 2.819 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.0	18.9	56.7
148	70.3	32.1	96.3





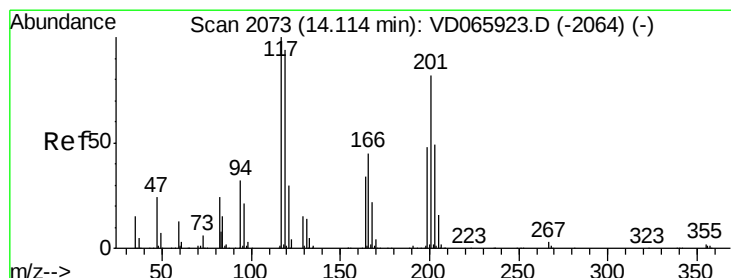
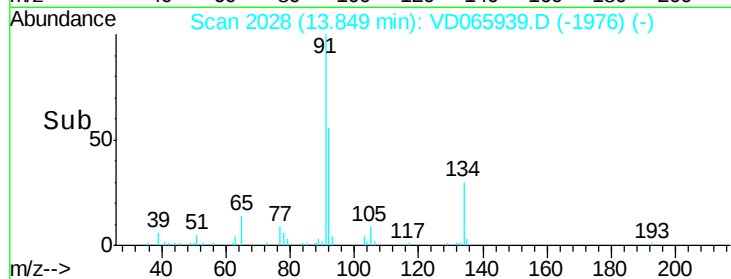
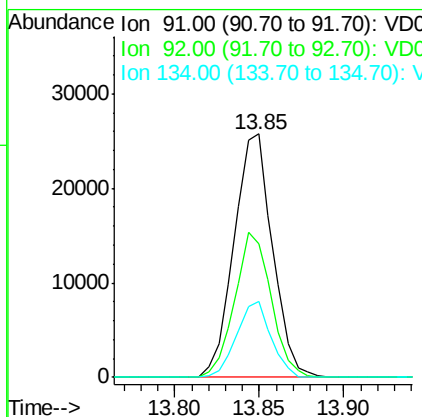
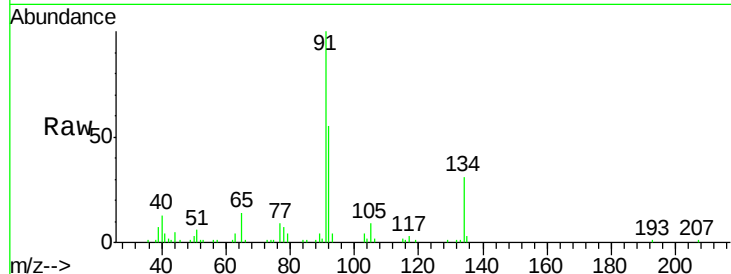
#89
n-Butylbenzene
Concen: 2.542 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	56.3	27.2	81.6	
134	27.9	13.8	41.3	

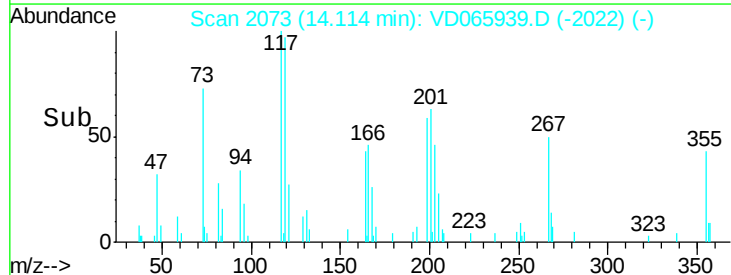
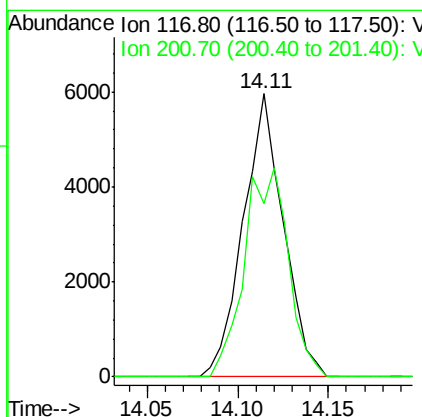
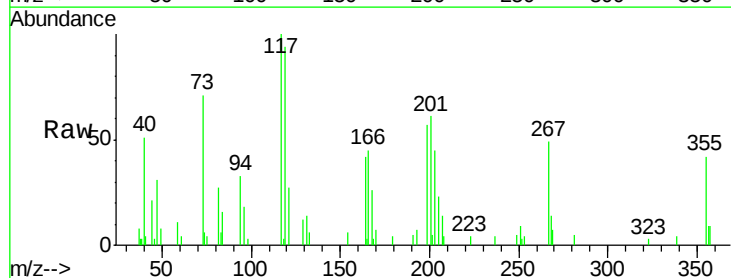
Manual Integrations
APPROVED

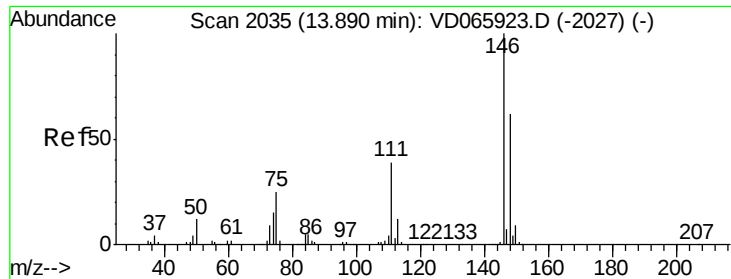
MMDadoda
7/9/2020 10:48:19 AM



#90
Hexachloroethane
Concen: 2.665 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	80.5	40.0	120.0	





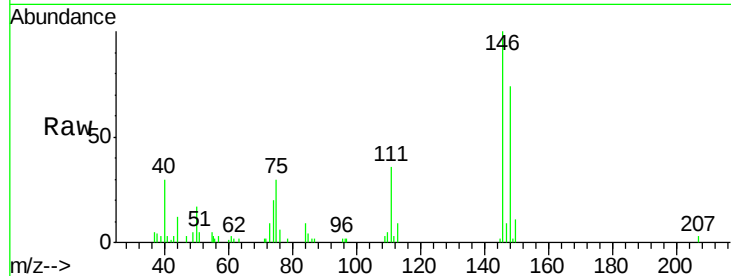
#91
 1,2-Dichlorobenzene
 Concen: 2.688 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

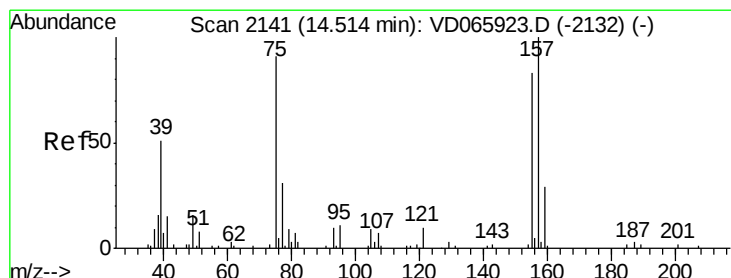
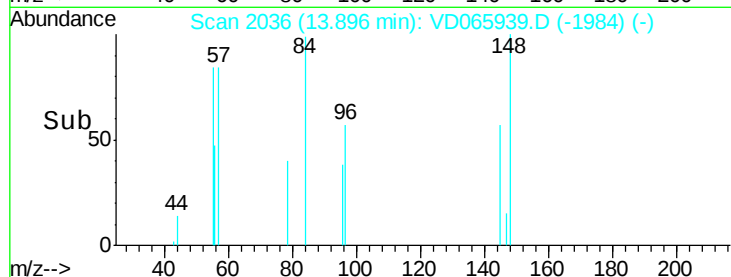
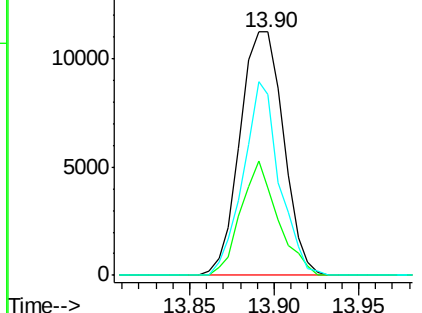
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.7	59.0
148	66.5	32.5	97.5

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 10:48:19 AM

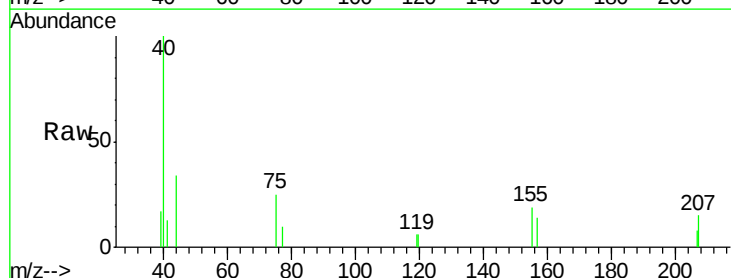


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

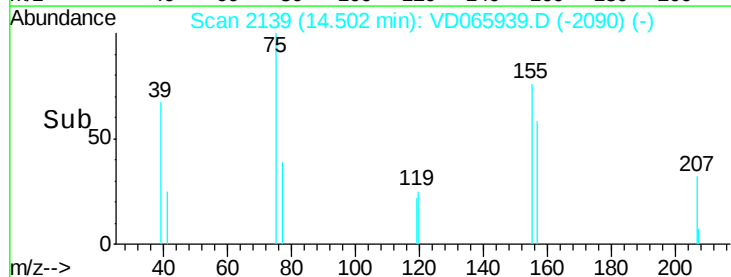
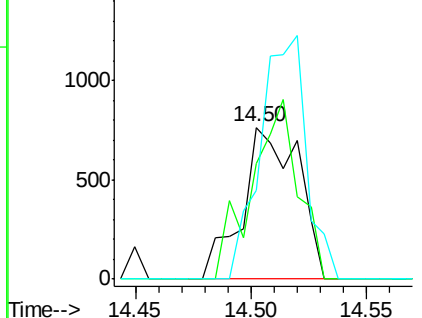


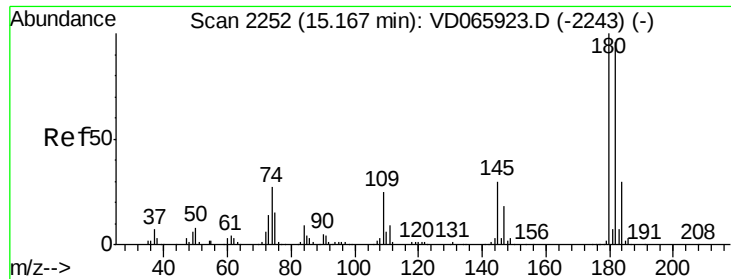
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.462 ug/l
 RT: 14.50 min Scan# 2139
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.1	45.3	135.8
157	130.7	56.9	170.6



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





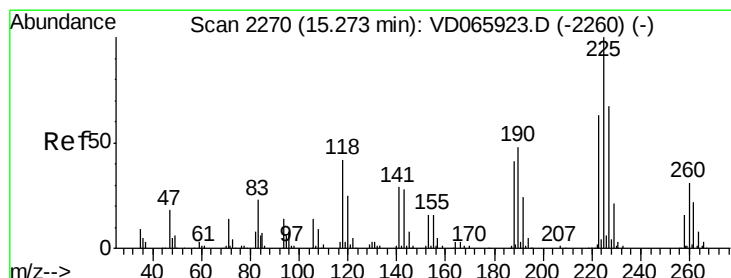
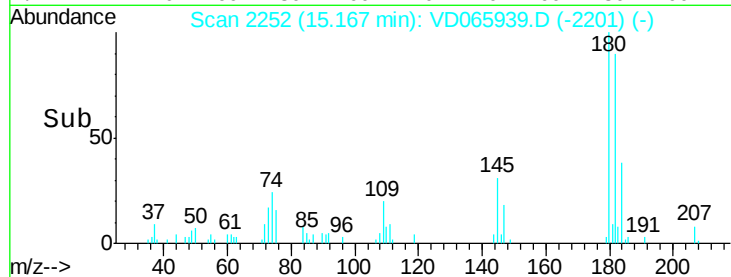
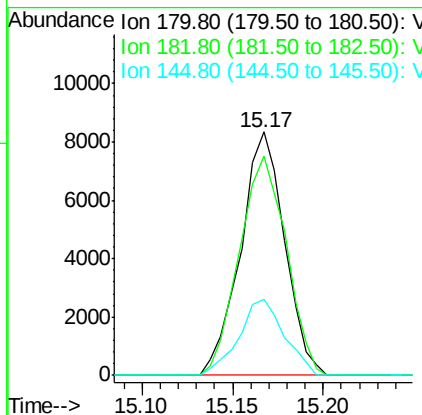
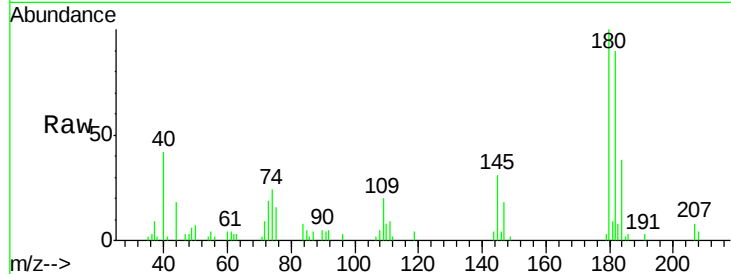
#93
 1,2,4-Trichlorobenzene
 Concen: 2.630 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.5	145.6
145	32.2	15.0	45.1

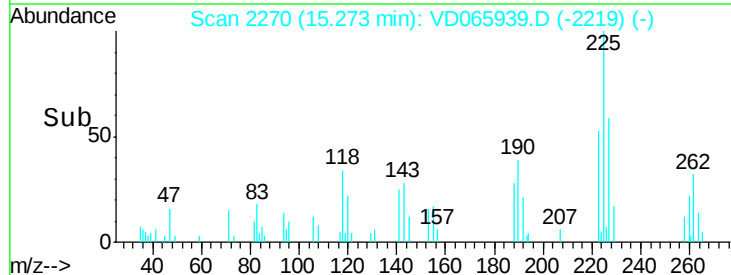
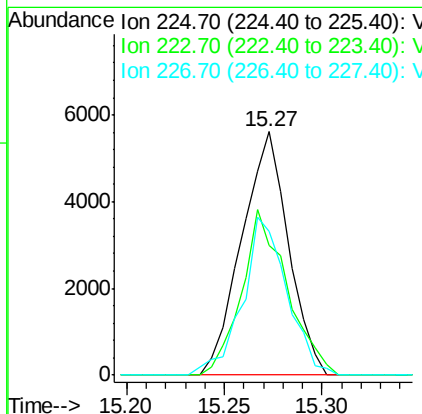
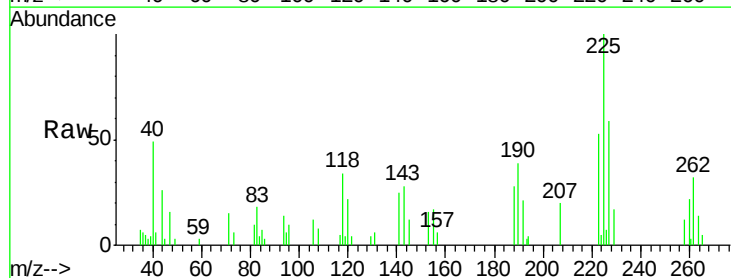
Manual Integrations
 APPROVED

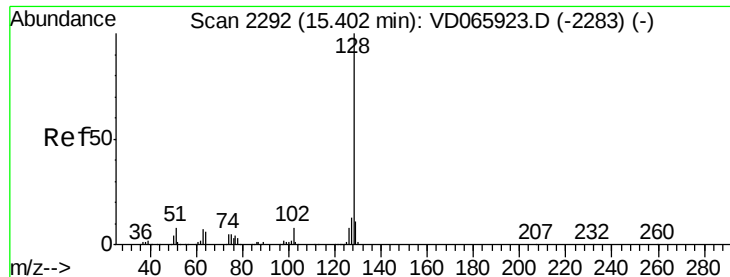
MMDadoda
 7/9/2020 10:48:19 AM



#94
 Hexachlorobutadiene
 Concen: 2.867 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.2	31.1	93.2
227	61.7	31.6	95.0





#95

Naphthalene

Concen: 2.525 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

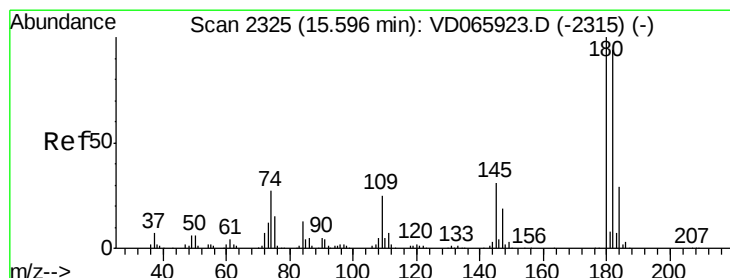
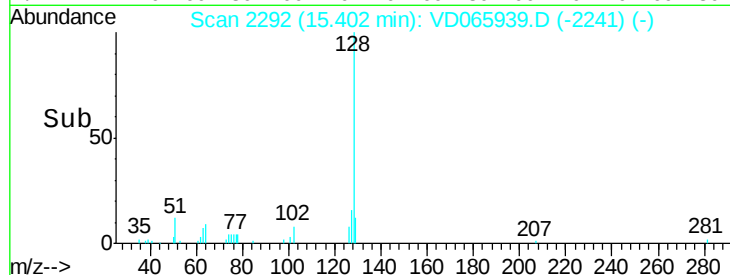
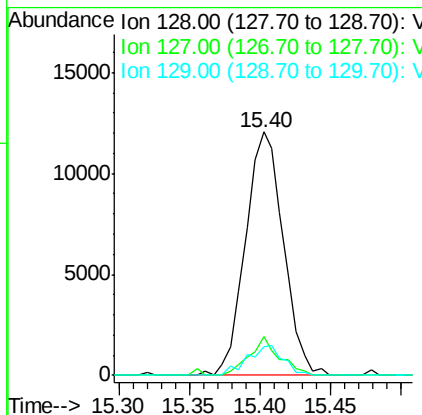
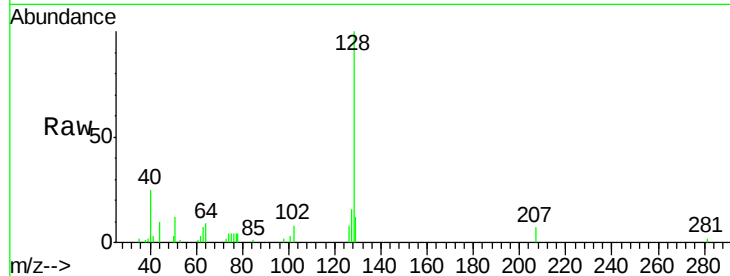
ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion:	128	Resp:	22686
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.8	16.2
129	11.6	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
7/9/2020 10:48:19 AM



#96

1,2,3-Trichlorobenzene

Concen: 2.866 ug/l

RT: 15.60 min Scan# 2326

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion:	180	Resp:	13244
Ion Ratio	Lower	Upper	
180	100		
182	91.7	47.6	142.8
145	31.3	16.1	48.2

