

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070720\
 Data File : VD065932.D
 Acq On : 07 Jul 2020 20:26
 Operator : VA/SY
 Sample : L3216-02 5PPBL00
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Manual Integrations
 APPROVED

MMDadoda
 7/8/2020 12:20:01 PM

Quant Time: Jul 08 10:10:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 08 09:53:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	393453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	623677	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	581134	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	281899	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	172706	49.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.06%	
35) Dibromofluoromethane	7.92	113	181587	47.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.40%	
50) Toluene-d8	10.34	98	659388	46.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.94%	
62) 4-Bromofluorobenzene	12.63	95	234361	48.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	20958	5.992	ug/l	99
3) Chloromethane	2.20	50	19166	5.527	ug/l	91
4) Vinyl Chloride	2.35	62	16316	5.125	ug/l	94
5) Bromomethane	2.77	94	11341	5.623	ug/l	89
6) Chloroethane	2.92	64	9638	5.064	ug/l	92
7) Trichlorofluoromethane	3.27	101	36661	5.373	ug/l	91
8) Diethyl Ether	3.71	74	9444	5.045	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	4.10	101	21599	5.292	ug/l	96
10) Methyl Iodide	4.30	142	18085	4.665	ug/l #	92
11) Tert butyl alcohol	5.21	59	10820	43.270	ug/l #	71
12) 1,1-Dichloroethene	4.07	96	20431	5.358	ug/l	98
13) Acrolein	3.93	56	4607	22.394	ug/l	86
14) Allyl chloride	4.72	41	33117	5.125	ug/l	100
15) Acrylonitrile	5.44	53	21296	25.983	ug/l	98
16) Acetone	4.16	43	18921	23.154	ug/l	93
17) Carbon Disulfide	4.41	76	65164	5.363	ug/l	96
18) Methyl Acetate	4.72	43	12853	6.710	ug/l #	73
19) Methyl tert-butyl Ether	5.48	73	42109	5.216	ug/l	94
20) Methylene Chloride	4.96	84	60520	10.425	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	22483	5.241	ug/l	89
22) Diisopropyl ether	6.36	45	63986	5.269	ug/l	93
23) Vinyl Acetate	6.31	43	160627	23.173	ug/l	97
24) 1,1-Dichloroethane	6.27	63	38379	5.300	ug/l	97
25) 2-Butanone	7.21	43	29339	27.170	ug/l	93
26) 2,2-Dichloropropane	7.21	77	32939	5.200	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	25018	5.427	ug/l	96
28) Bromochloromethane	7.55	49	13810	5.049	ug/l	99
29) Tetrahydrofuran	7.57	42	17671	25.735	ug/l	99
30) Chloroform	7.71	83	39386	5.365	ug/l	99
31) Cyclohexane	7.98	56	40022	5.617	ug/l #	80
32) 1,1,1-Trichloroethane	7.90	97	35196	5.254	ug/l	97
36) 1,1-Dichloropropene	8.11	75	31566	5.125	ug/l	98
37) Ethyl Acetate	7.29	43	12879	4.990	ug/l #	92
38) Carbon Tetrachloride	8.10	117	33057	5.007	ug/l	87

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Manual Integrations
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MMDadoda
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Quant Time: Jul 08 10:10:14 2020
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 Quant Title : SW846 8260
 QLast Update : Wed Jul 08 09:53:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	35220	4.657	ug/l	95
40) Benzene	8.36	78	87628	5.149	ug/l	98
41) Methacrylonitrile	7.54	41	9502m	6.341	ug/l	
42) 1,2-Dichloroethane	8.43	62	25684	5.328	ug/l	99
43) Isopropyl Acetate	8.45	43	22822	4.751	ug/l	94
44) Trichloroethene	9.11	130	24839	4.968	ug/l	90
45) 1,2-Dichloropropane	9.38	63	22071	5.226	ug/l	96
46) Dibromomethane	9.48	93	10802	4.912	ug/l	95
47) Bromodichloromethane	9.67	83	29997	5.086	ug/l #	85
48) Methyl methacrylate	9.46	41	11552	4.777	ug/l	95
49) 1,4-Dioxane	9.46	88	2880	110.230	ug/l	93
51) 4-Methyl-2-Pentanone	10.23	43	59260	24.399	ug/l	96
52) Toluene	10.40	92	55942	5.167	ug/l	95
53) t-1,3-Dichloropropene	10.63	75	25684	4.631	ug/l	95
54) cis-1,3-Dichloropropene	10.09	75	32662	4.874	ug/l	95
55) 1,1,2-Trichloroethane	10.80	97	15361	5.070	ug/l	97
56) Ethyl methacrylate	10.66	69	18207	4.920	ug/l	96
57) 1,3-Dichloropropane	10.95	76	26629	5.026	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	43787	24.434	ug/l	98
59) 2-Hexanone	10.98	43	37815	22.639	ug/l	99
60) Dibromochloromethane	11.14	129	20700	5.001	ug/l	96
61) 1,2-Dibromoethane	11.25	107	14405	4.769	ug/l	96
64) Tetrachloroethene	10.88	164	23337	5.522	ug/l	94
65) Chlorobenzene	11.67	112	60639	5.178	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.74	131	22769	5.198	ug/l	97
67) Ethyl Benzene	11.75	91	103567	4.978	ug/l	98
68) m/p-Xylenes	11.86	106	77593	9.817	ug/l	99
69) o-Xylene	12.18	106	36471	5.065	ug/l	95
70) Styrene	12.20	104	61483	4.946	ug/l	97
71) Bromoform	12.37	173	11727	4.731	ug/l #	98
73) Isopropylbenzene	12.48	105	91810	4.667	ug/l	99
74) N-amyl acetate	12.29	43	20613	4.669	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.73	83	16385	5.016	ug/l	95
76) 1,2,3-Trichloropropane	12.78	75	8840m	3.738	ug/l	
77) Bromobenzene	12.76	156	24731	5.183	ug/l	98
78) n-propylbenzene	12.83	91	114031	4.944	ug/l	100
79) 2-Chlorotoluene	12.91	91	65812	5.029	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	79965	4.969	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	5505	5.002	ug/l	93
82) 4-Chlorotoluene	13.01	91	68618	4.998	ug/l	97
83) tert-Butylbenzene	13.23	119	67060	4.891	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	78287	4.887	ug/l	99
85) sec-Butylbenzene	13.40	105	94584	4.868	ug/l	99
86) p-Isopropyltoluene	13.52	119	83121	4.677	ug/l	97
87) 1,3-Dichlorobenzene	13.52	146	45819	5.131	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	46908	5.266	ug/l	93
89) n-Butylbenzene	13.85	91	80879	4.846	ug/l	97
90) Hexachloroethane	14.11	117	17768	4.958	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	39044	5.003	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2698	4.940	ug/l	95

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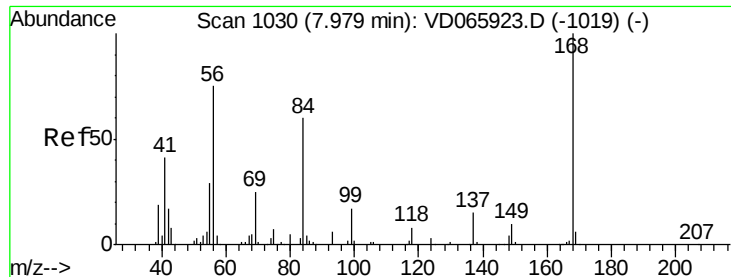
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	27751	4.989	ug/l	99
94) Hexachlorobutadiene	15.27	225	15360	4.565	ug/l	89
95) Naphthalene	15.40	128	42114	4.515	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	22754	4.743	ug/l	92

(#) = 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: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:168 Resp: 393453

Ion Ratio Lower Upper

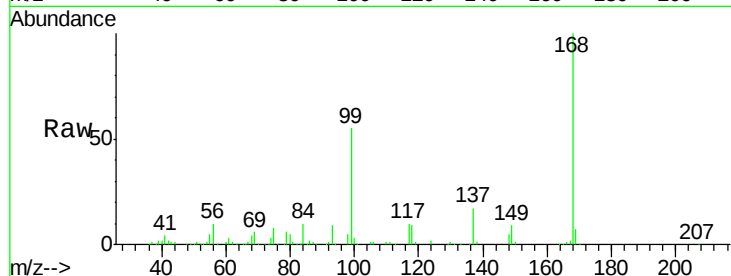
168 100

99 55.3 43.1 64.7

Manual Integrations
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

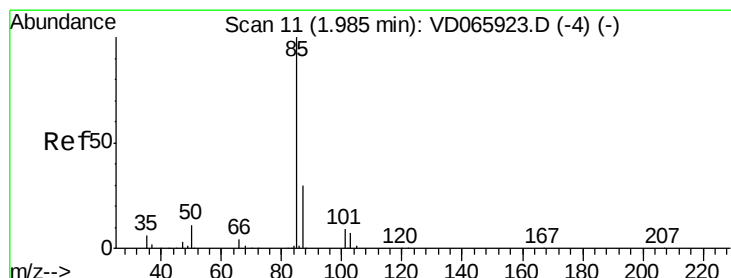
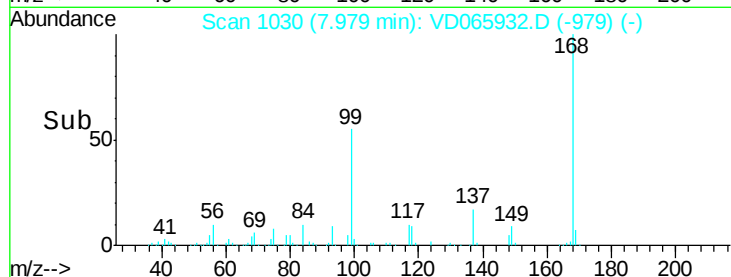
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 5.992 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD065932.D

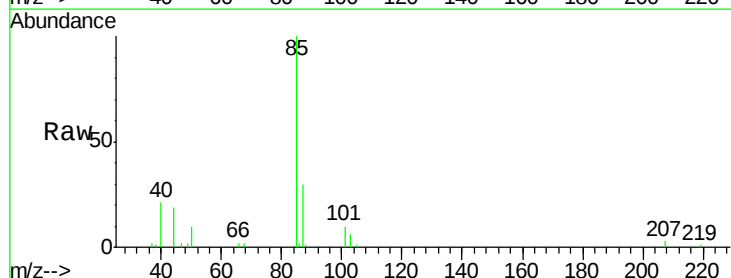
Acq: 07 Jul 2020 20:26

Tgt Ion: 85 Resp: 20958

Ion Ratio Lower Upper

85 100

87 30.4 14.9 44.9



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

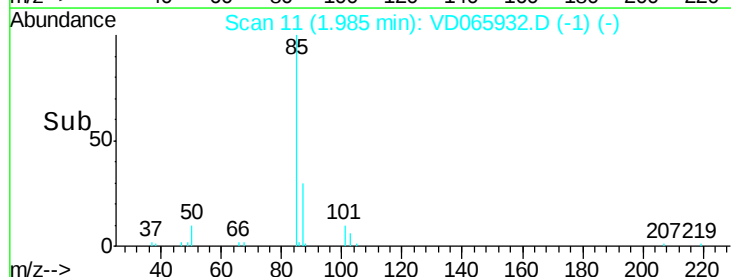
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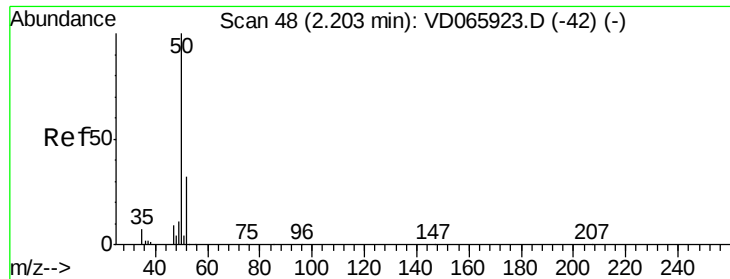
10000

5000

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Time-->





#3

Chloromethane

Concen: 5.527 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 50 Resp: 19166

Ion Ratio Lower Upper

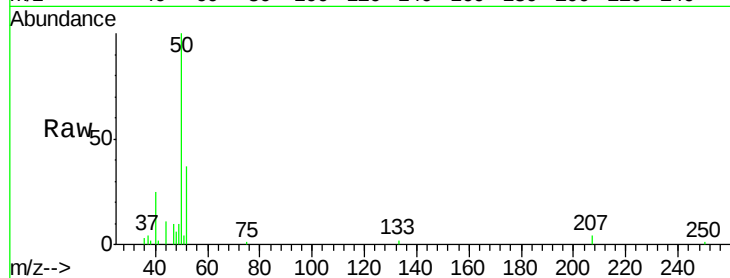
50 100

52 36.7 25.6 38.4

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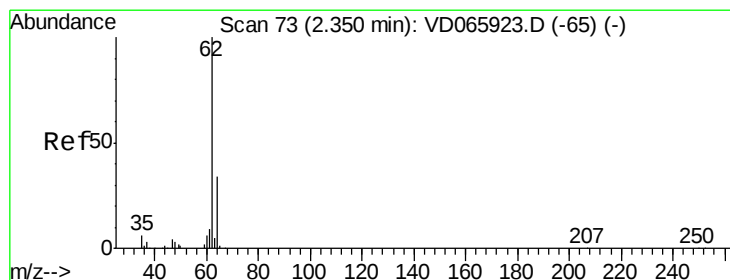
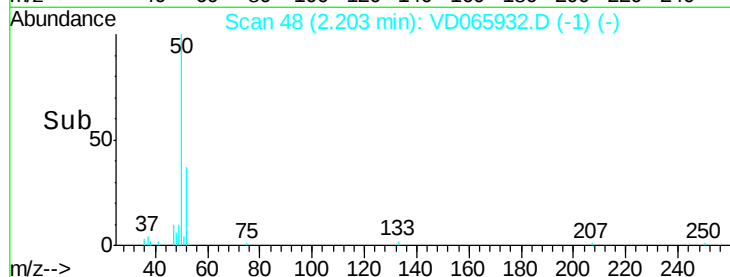
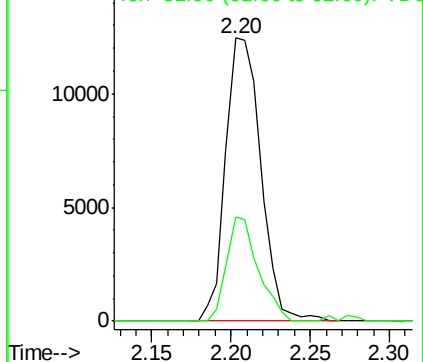
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 5.125 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065932.D

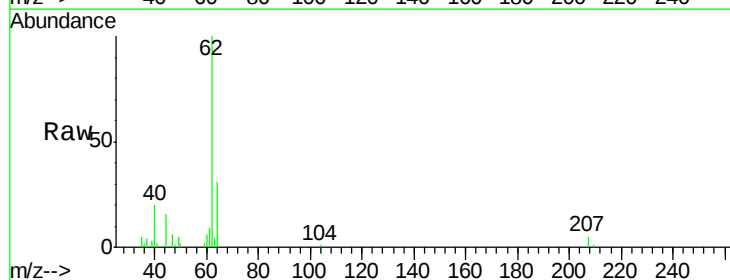
Acq: 07 Jul 2020 20:26

Tgt Ion: 62 Resp: 16316

Ion Ratio Lower Upper

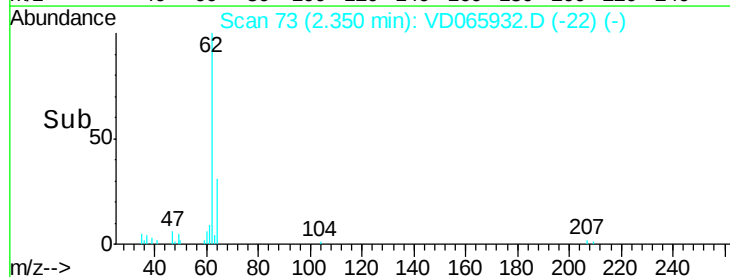
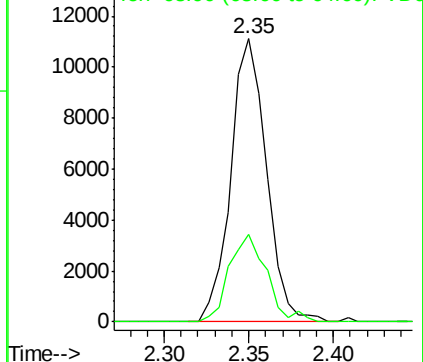
62 100

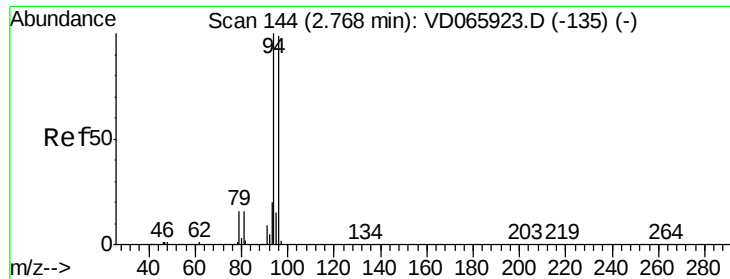
64 30.8 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 5.623 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 94 Resp: 11341

Ion Ratio Lower Upper

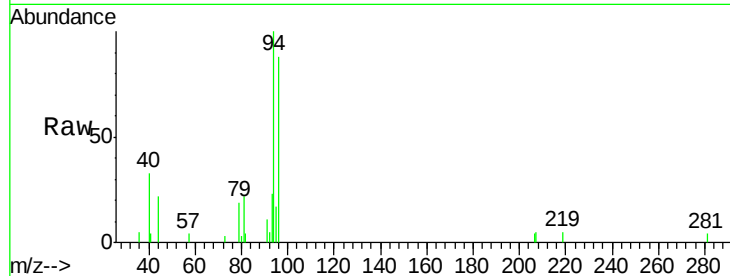
94 100

96 88.0 78.8 118.2

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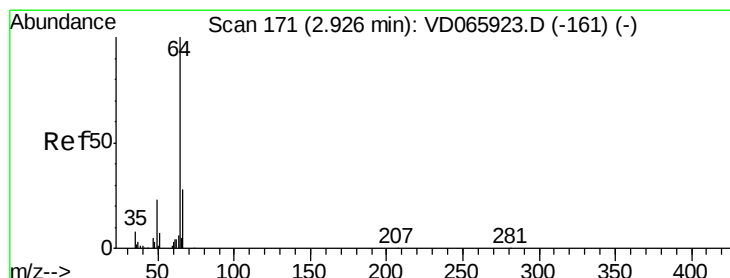
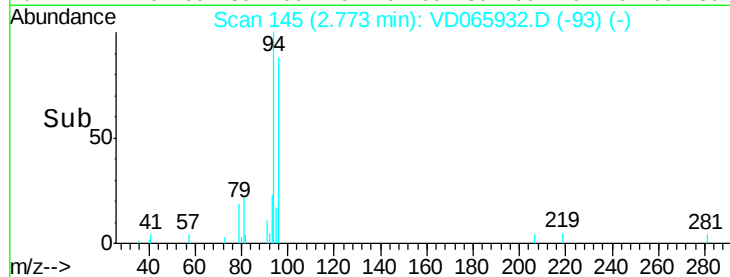
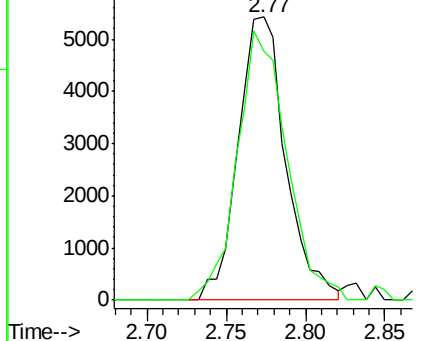
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 5.064 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065932.D

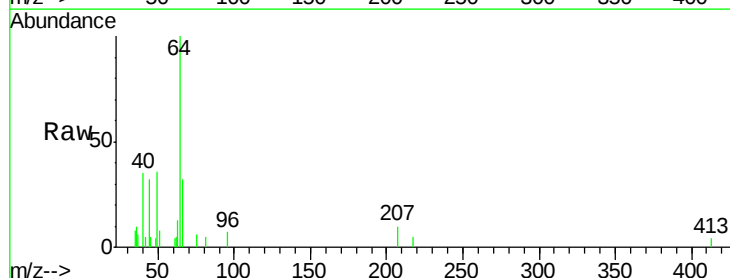
Acq: 07 Jul 2020 20:26

Tgt Ion: 64 Resp: 9638

Ion Ratio Lower Upper

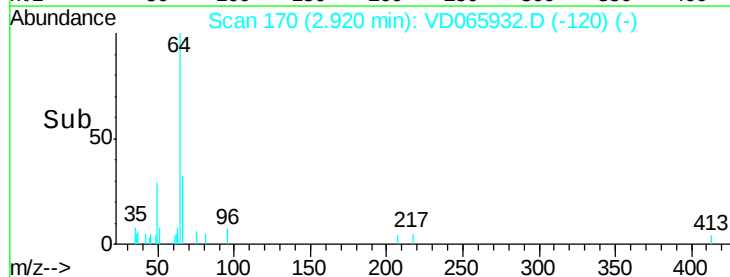
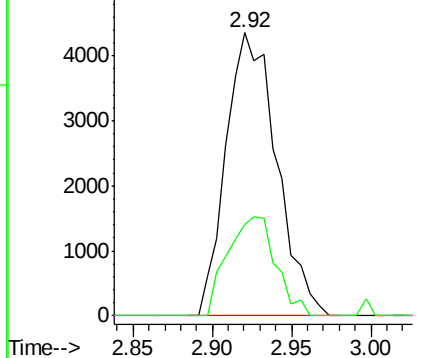
64 100

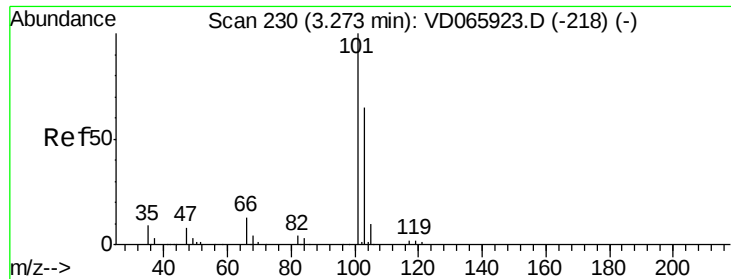
66 32.3 22.6 33.8



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 5.373 ug/l

RT: 3.27 min Scan# 230

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:101 Resp: 36661

Ion Ratio Lower Upper

101 100

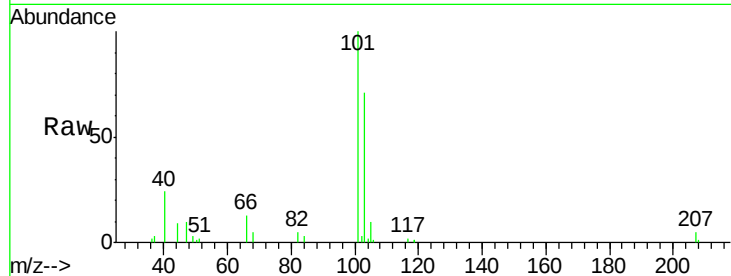
103 71.5 51.7 77.5

Manual Integrations

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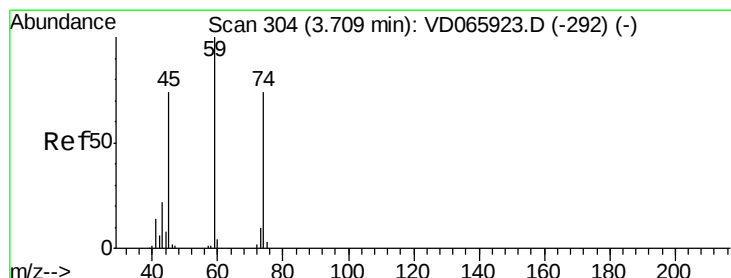
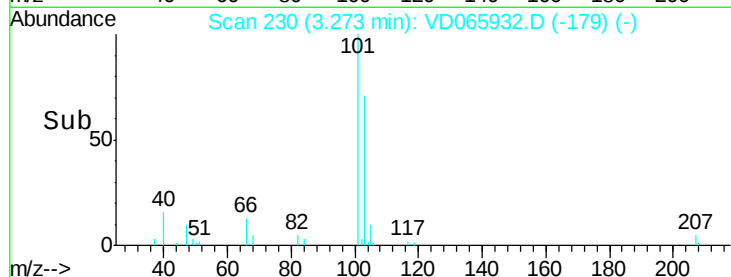
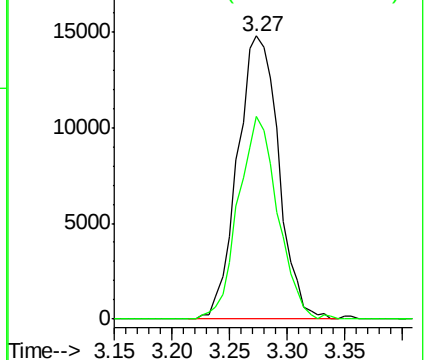
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 5.045 ug/l

RT: 3.71 min Scan# 304

Delta R.T. -0.00 min

Lab File: VD065932.D

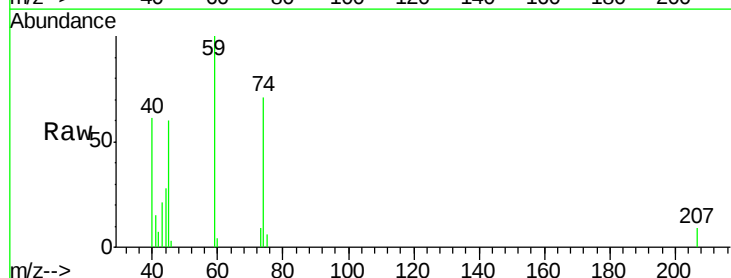
Acq: 07 Jul 2020 20:26

Tgt Ion: 74 Resp: 9444

Ion Ratio Lower Upper

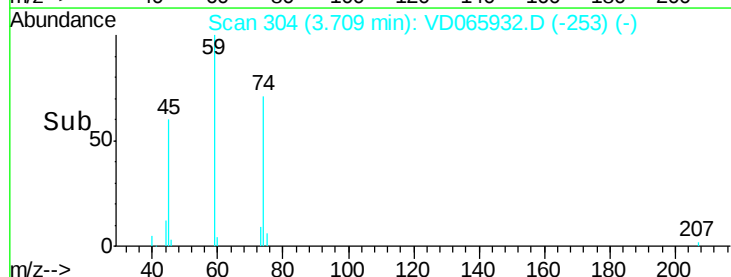
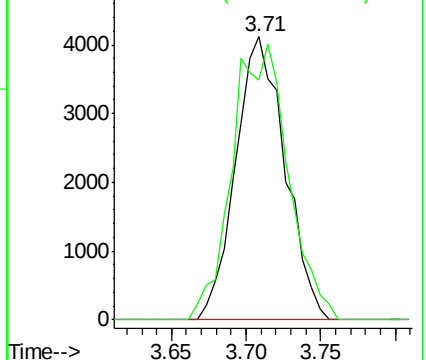
74 100

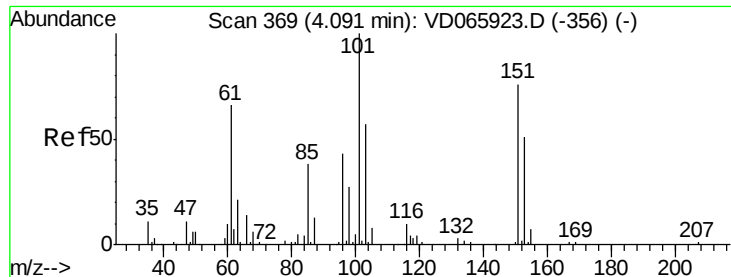
45 110.8 51.1 153.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.292 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

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MSVOA_D

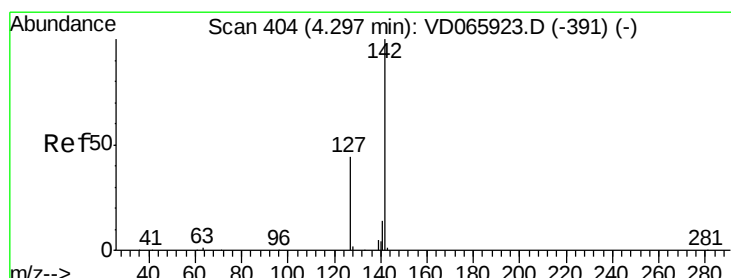
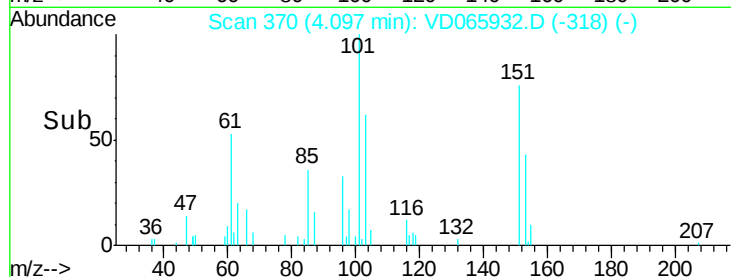
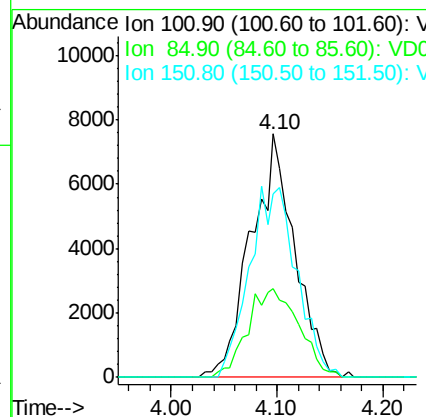
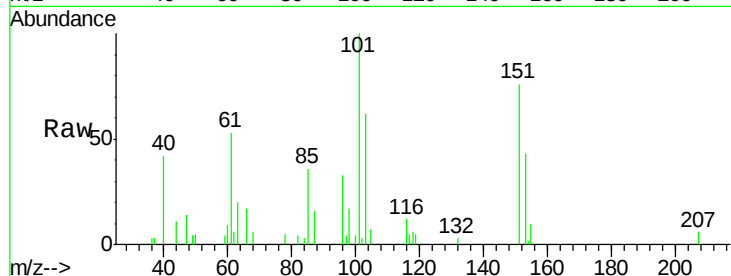
ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:	101	Resp:	21599
Ion Ratio	Lower	Upper	
101	100		
85	42.9	33.8	50.8
151	85.0	64.1	96.1

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#10

Methyl Iodide

Concen: 4.665 ug/l

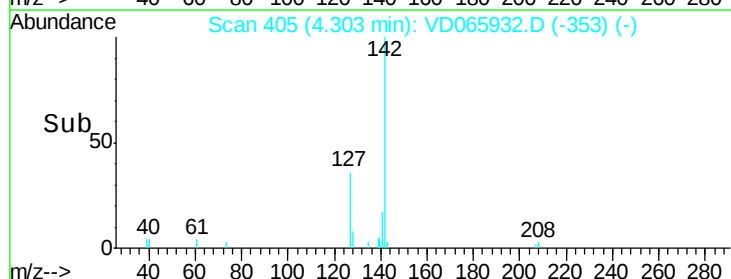
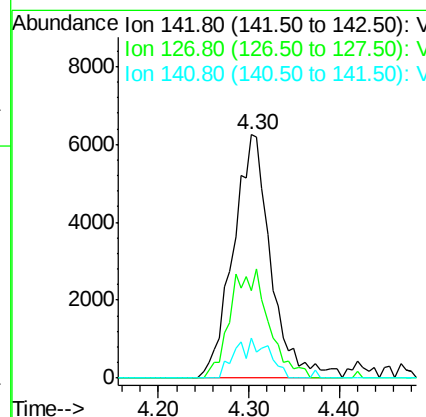
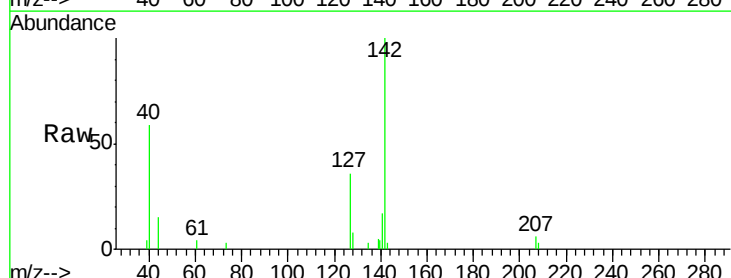
RT: 4.30 min Scan# 405

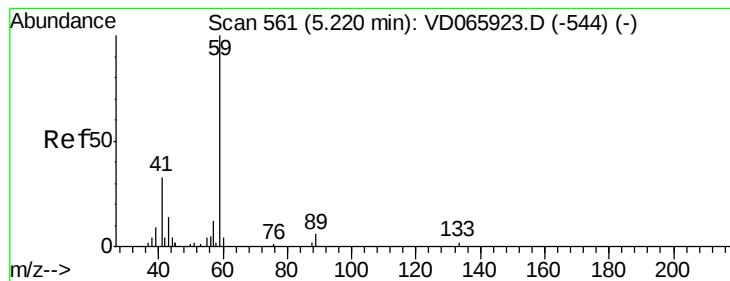
Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion:	142	Resp:	18085
Ion Ratio	Lower	Upper	
142	100		
127	45.2	34.6	51.8
141	5.9	11.6	17.4#





#11

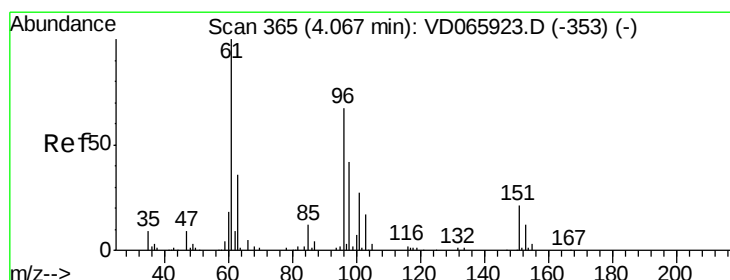
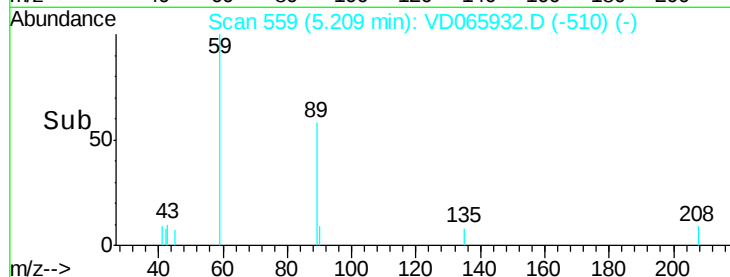
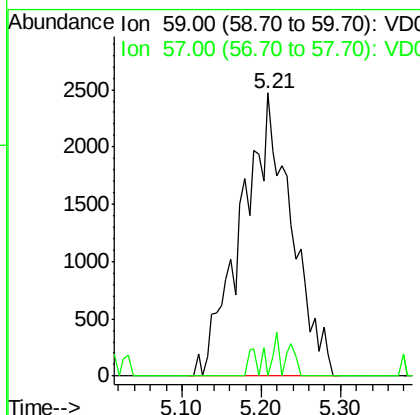
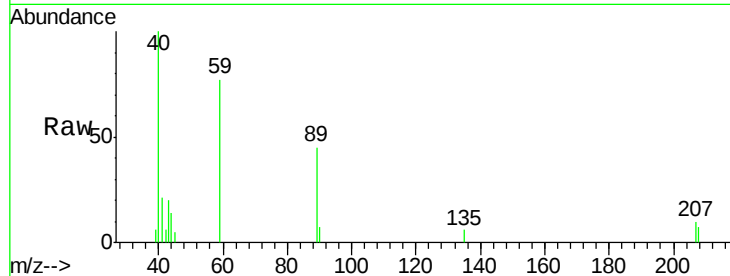
Tert butyl alcohol
 Concen: 43.270 ug/l
 RT: 5.21 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion: 59 Resp: 10820
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#

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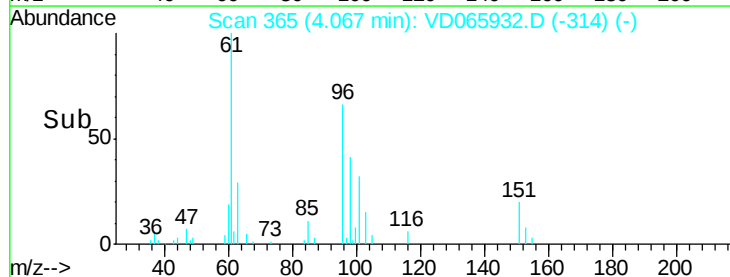
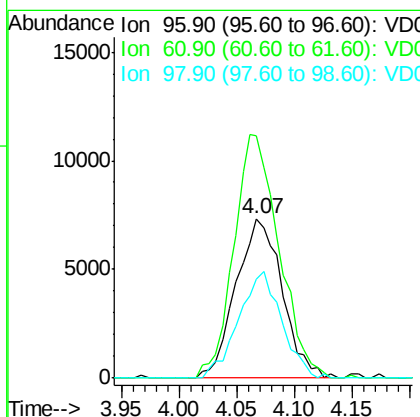
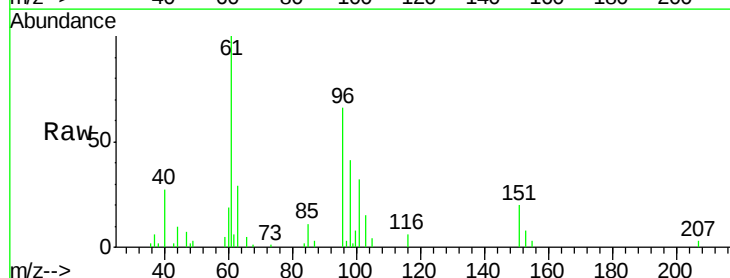
MMDadoda
 7/8/2020 12:20:01 PM

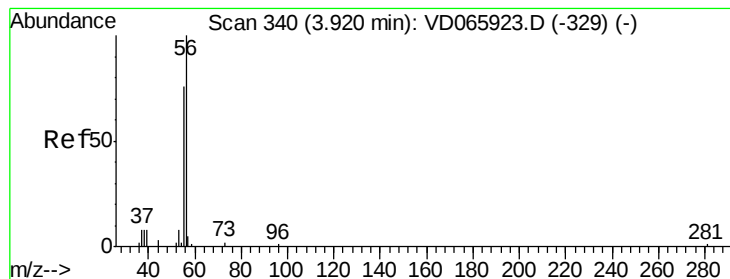


#12

1,1-Dichloroethene
 Concen: 5.358 ug/l
 RT: 4.07 min Scan# 365
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 96 Resp: 20431
 Ion Ratio Lower Upper
 96 100
 61 152.5 120.2 180.2
 98 62.4 50.6 76.0





#13

Acrolein

Concen: 22.394 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 56 Resp: 4607

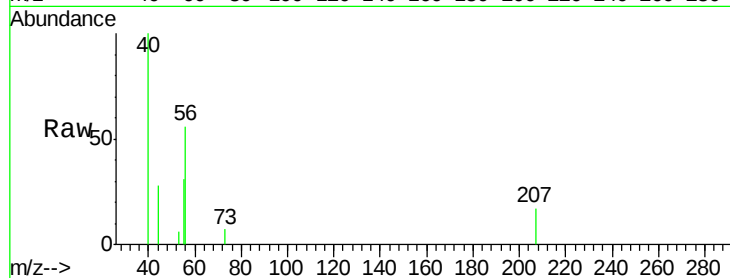
Ion Ratio Lower Upper

56 100

55 79.8 55.0 82.6

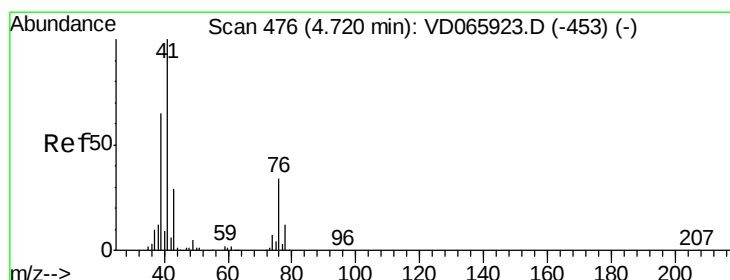
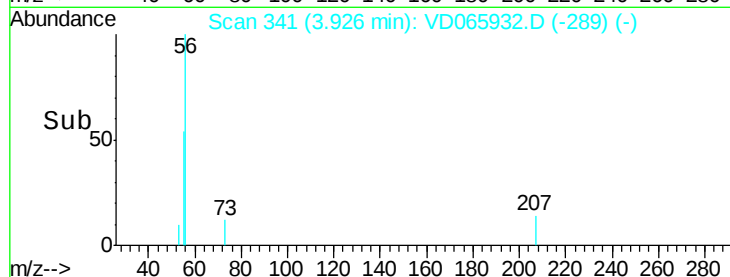
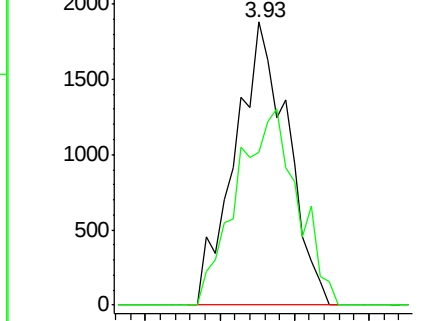
Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 5.125 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

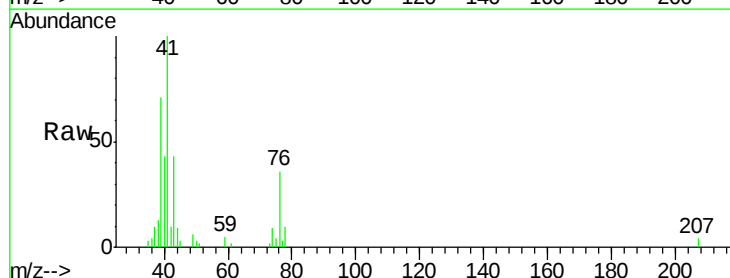
Tgt Ion: 41 Resp: 33117

Ion Ratio Lower Upper

41 100

39 65.5 52.2 78.4

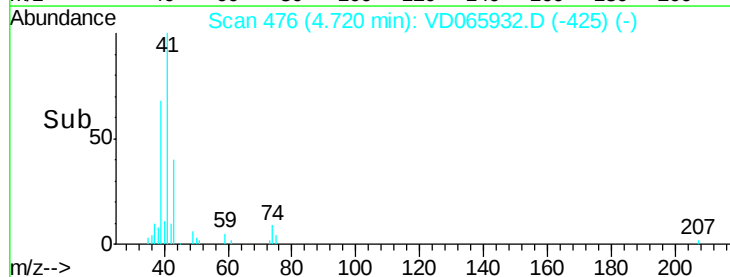
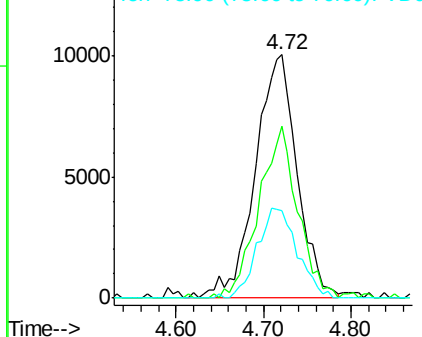
76 34.9 28.1 42.1

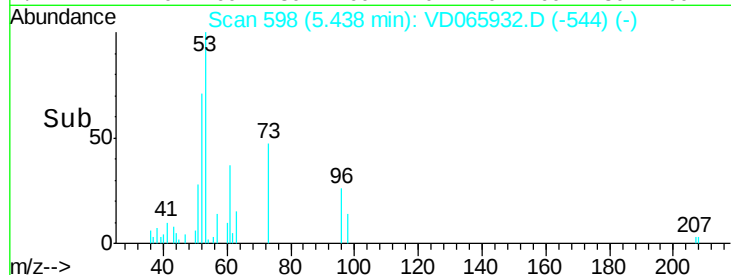
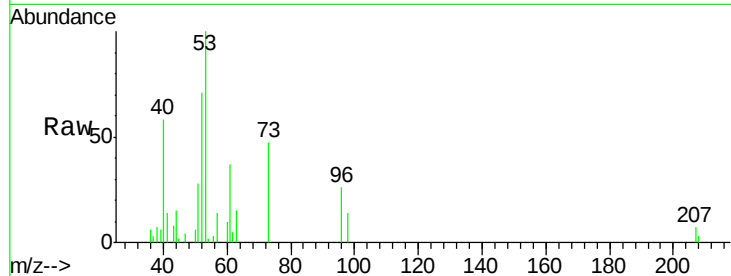
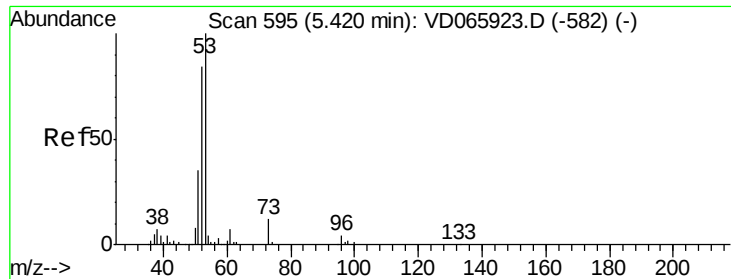


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 25.983 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.02 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tot Ion:	53	Resp:	21296
Ion	Ratio	Lower	Upper
53	100		
52	81.3	66.3	99.5
51	36.6	29.8	44.8

Instrument :

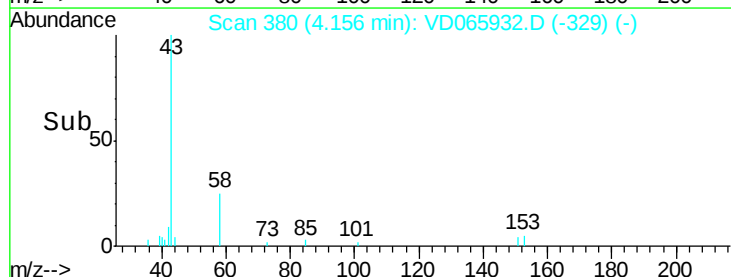
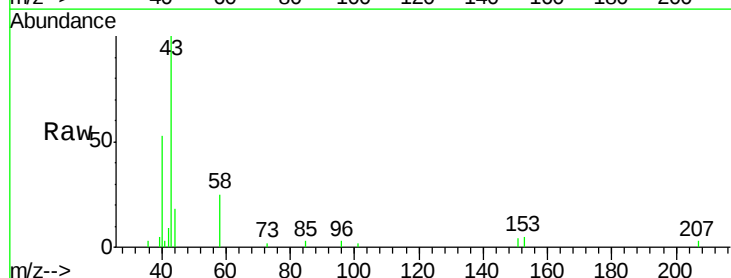
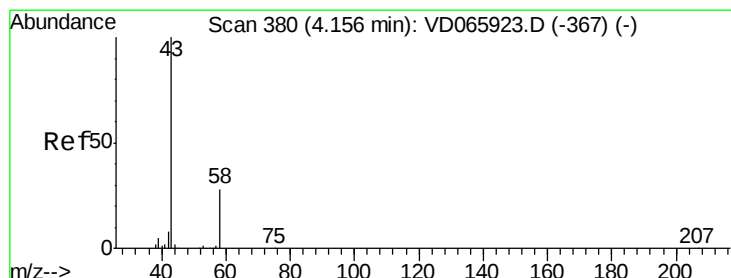
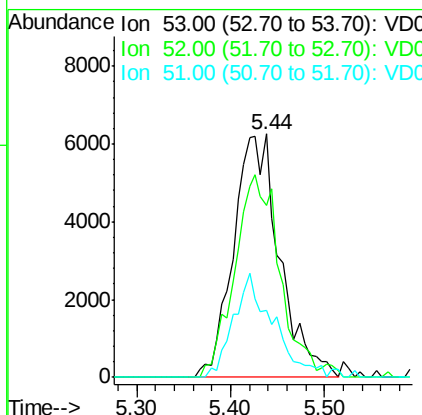
MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

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#16

Acetone

Concen: 23.154 ug/l

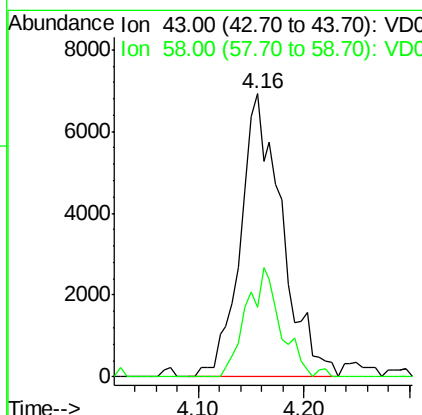
RT: 4.16 min Scan# 380

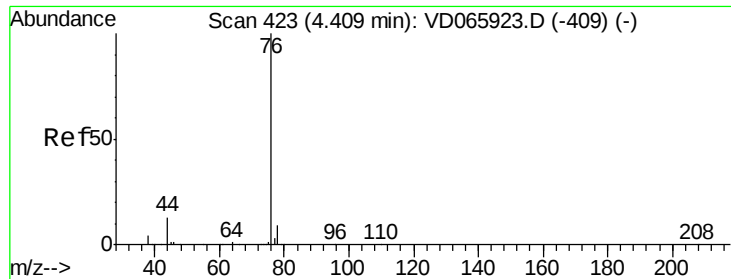
Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion:	43	Resp:	18921
Ion	Ratio	Lower	Upper
43	100		
58	24.5	22.7	34.1





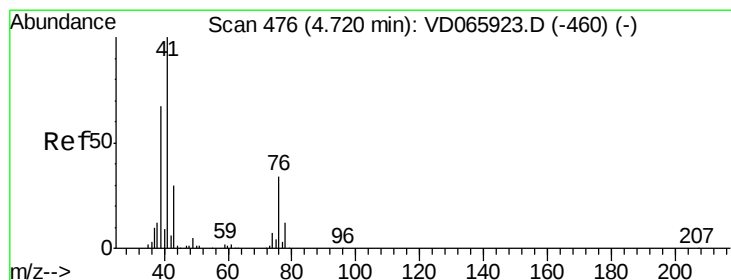
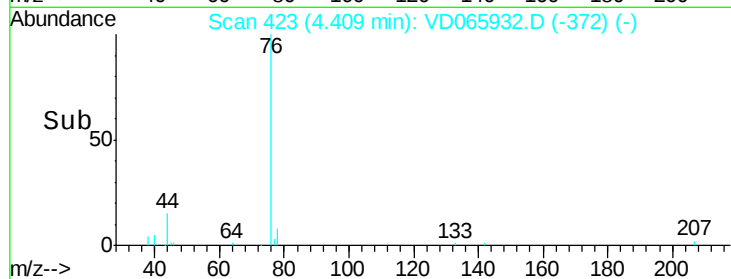
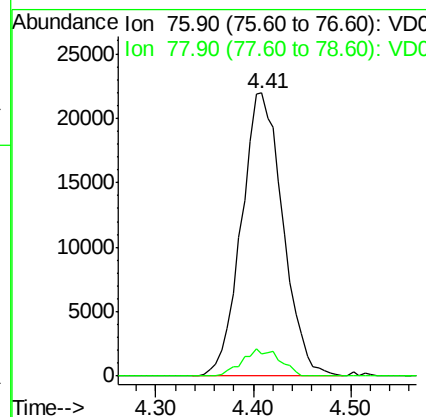
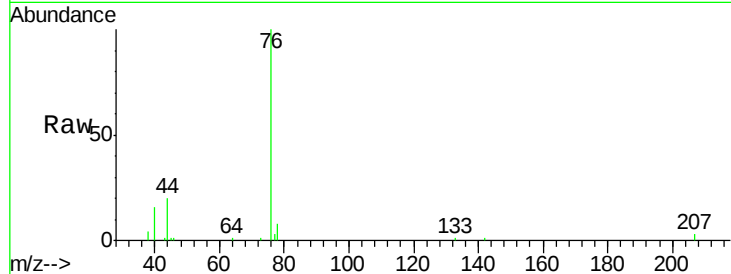
#17
Carbon Disulfide
Concen: 5.363 ug/l
RT: 4.41 min Scan# 423
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.5	11.3

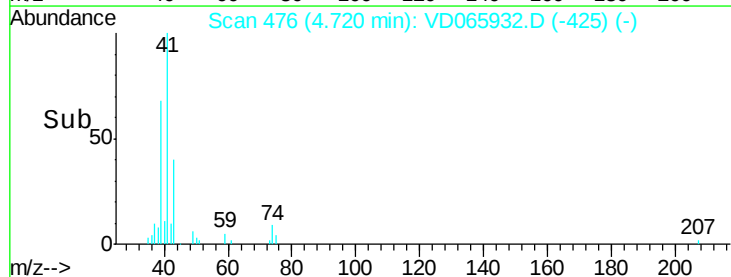
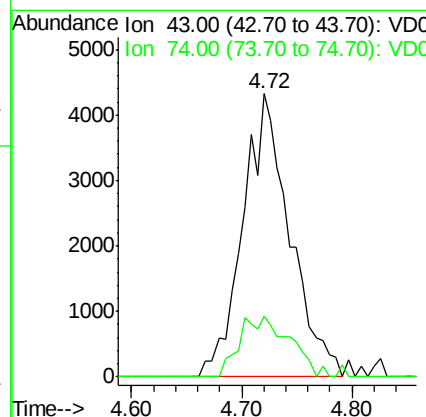
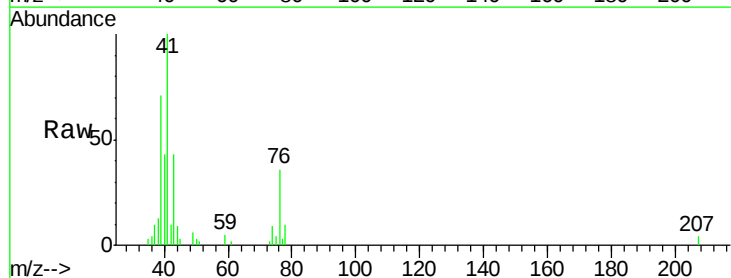
Manual Integrations
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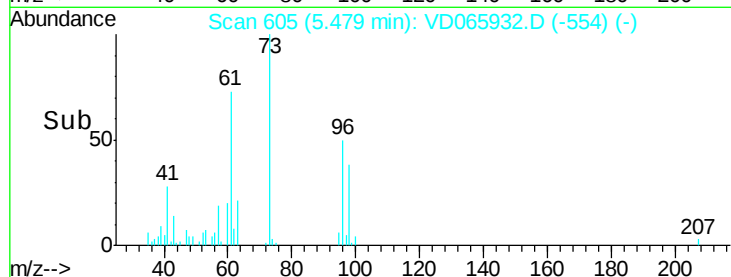
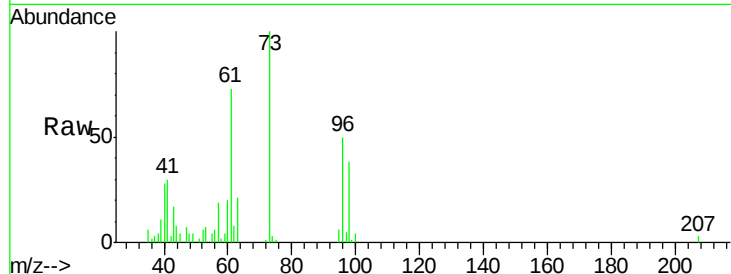
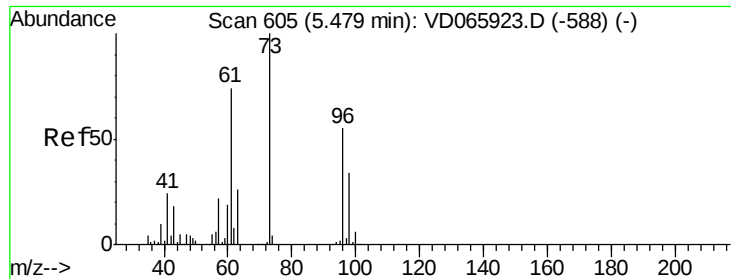
MMDadoda
7/8/2020 12:20:01 PM



#18
Methyl Acetate
Concen: 6.710 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
43	100		
74	9.6	17.8	26.8#





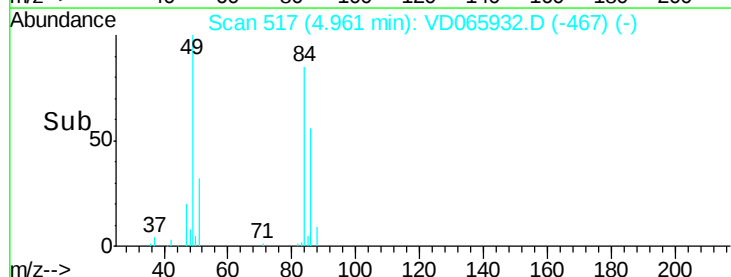
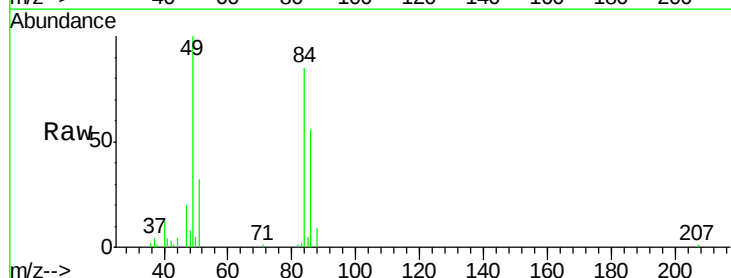
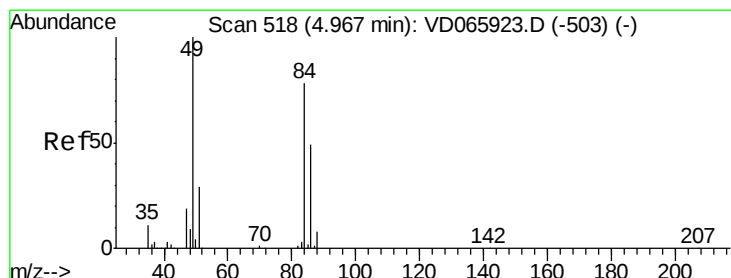
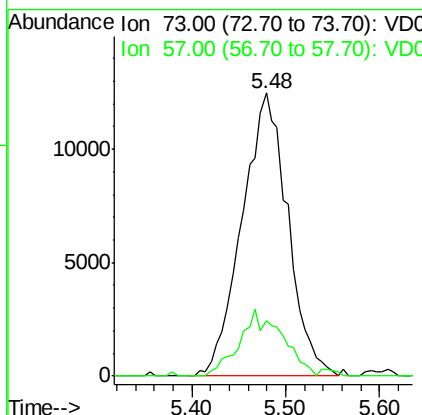
#19
Methyl tert-butyl Ether
Concen: 5.216 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tot Ion: 73 Resp: 42109
Ion Ratio Lower Upper
73 100
57 19.4 17.7 26.5

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

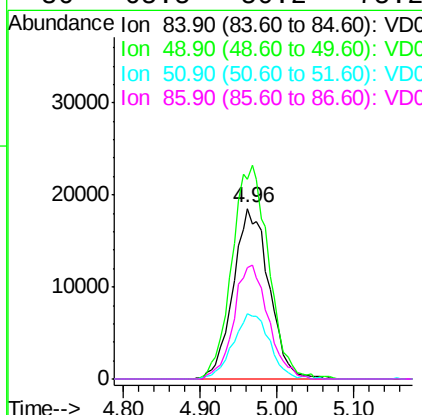
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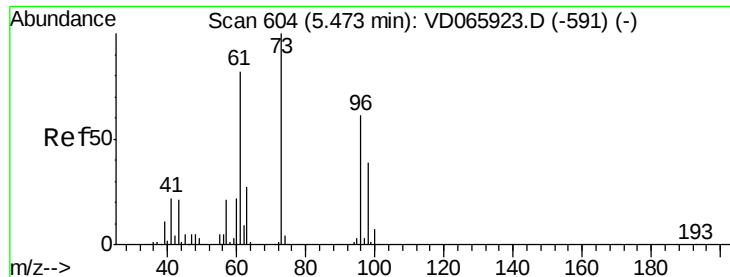
MMDadoda
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#20
Methylene Chloride
Concen: 10.425 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 84 Resp: 60520
Ion Ratio Lower Upper
84 100
49 117.4 102.2 153.2
51 38.1 29.8 44.6
86 65.5 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 5.241 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 96 Resp: 22483

Ion Ratio Lower Upper

96 100

61 116.9 106.6 160.0

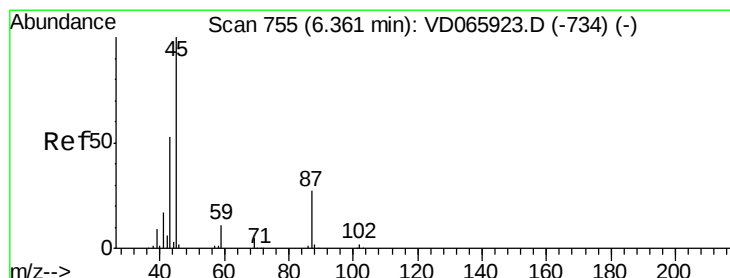
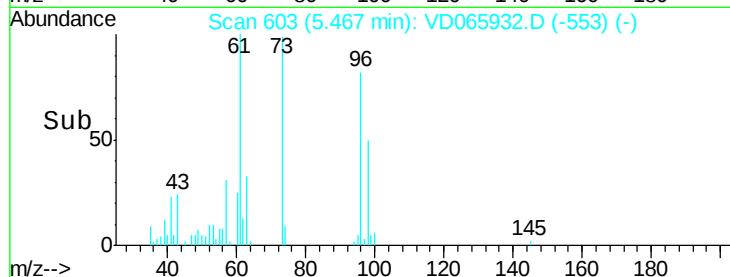
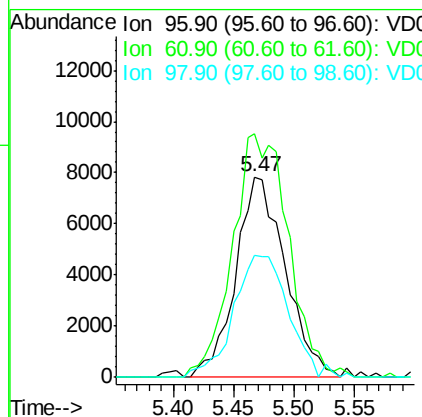
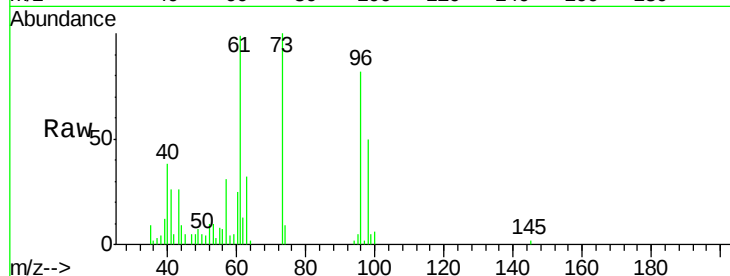
98 61.0 51.0 76.6

Manual Integrations

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#22

Diisopropyl ether

Concen: 5.269 ug/l

RT: 6.36 min Scan# 755

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion: 45 Resp: 63986

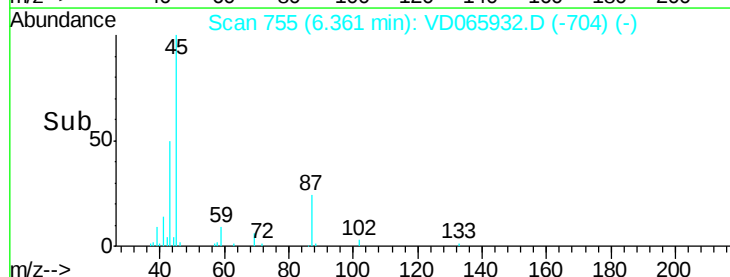
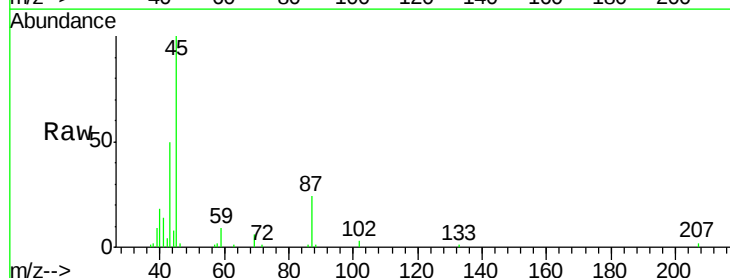
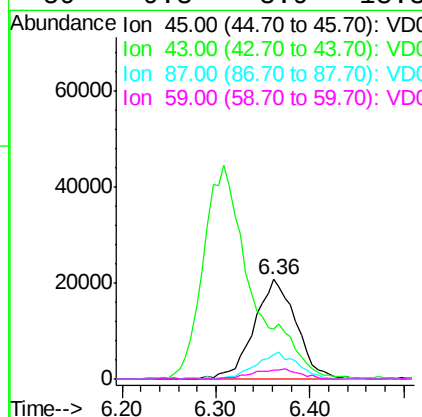
Ion Ratio Lower Upper

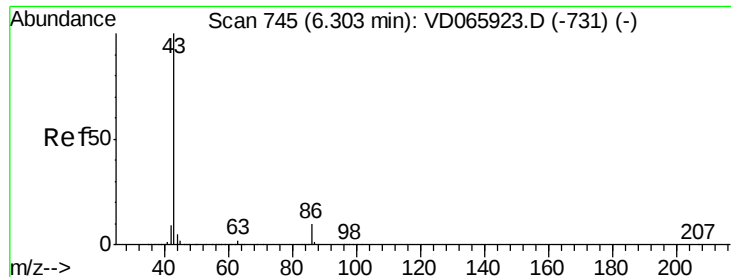
45 100

43 47.0 42.5 63.7

87 24.5 22.2 33.2

59 9.3 8.9 13.3





#23

Vinyl Acetate

Concen: 23.173 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 160627

Ion Ratio Lower Upper

43 100

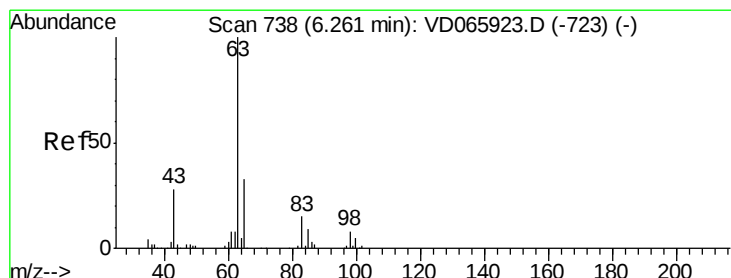
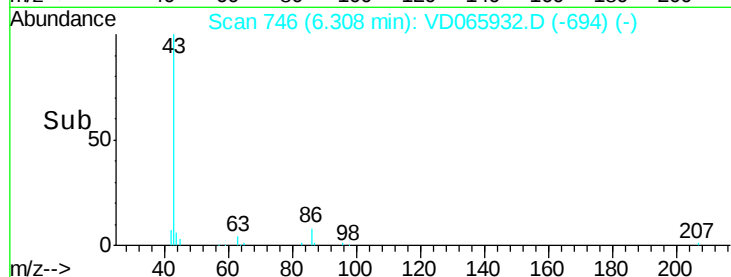
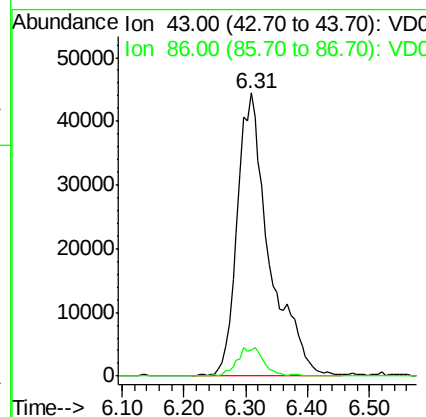
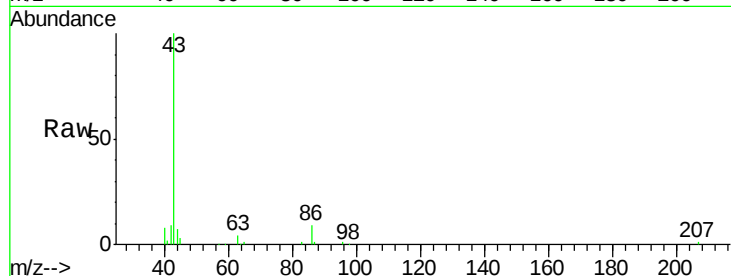
86 9.0 8.1 12.1

Manual Integrations

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7/8/2020 12:20:01 PM



#24

1,1-Dichloroethane

Concen: 5.300 ug/l

RT: 6.27 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

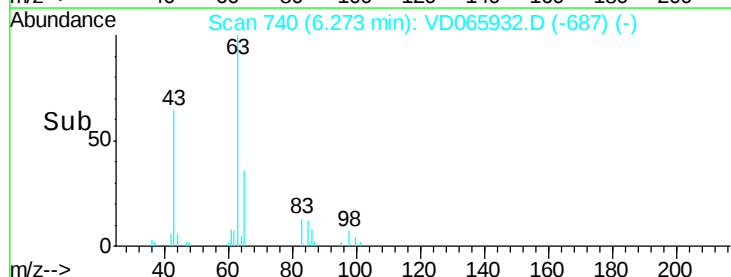
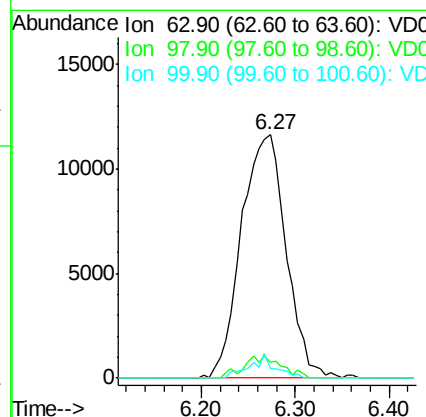
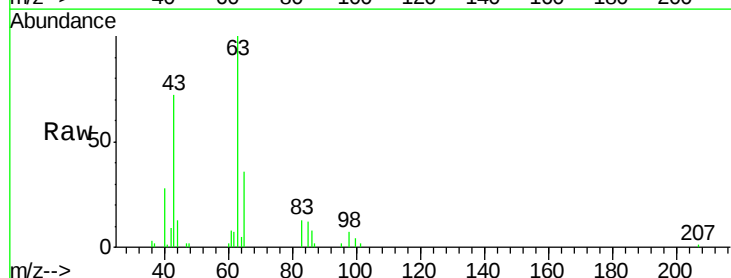
Tgt Ion: 63 Resp: 38379

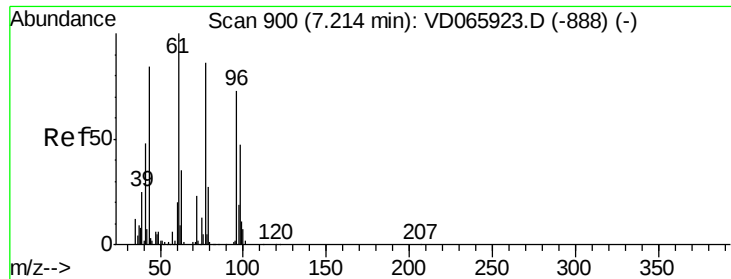
Ion Ratio Lower Upper

63 100

98 6.5 3.8 11.4

100 4.0 2.5 7.5





#25

2-Butanone

Concen: 27.170 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 29339

Ion Ratio Lower Upper

43 100

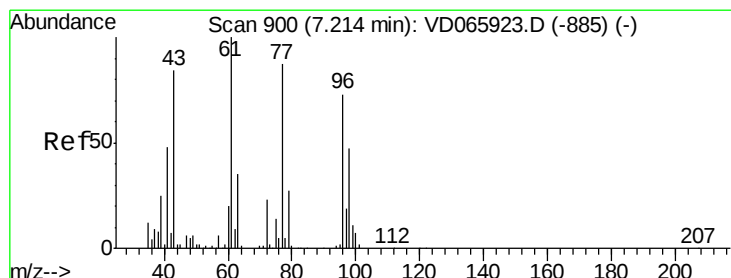
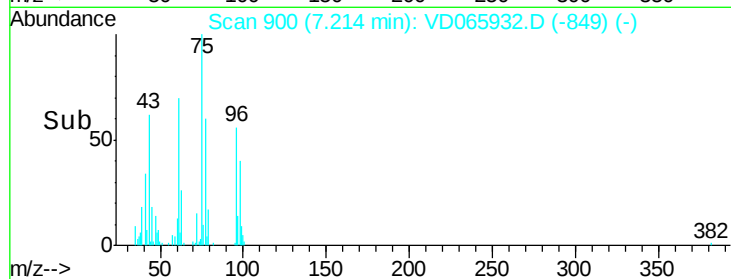
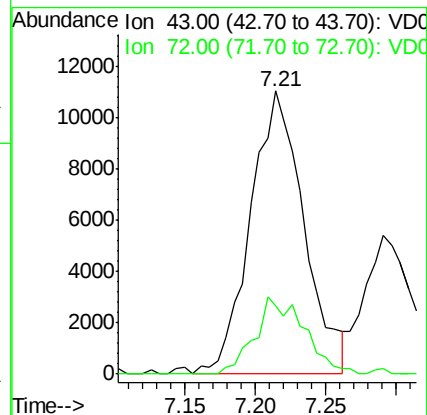
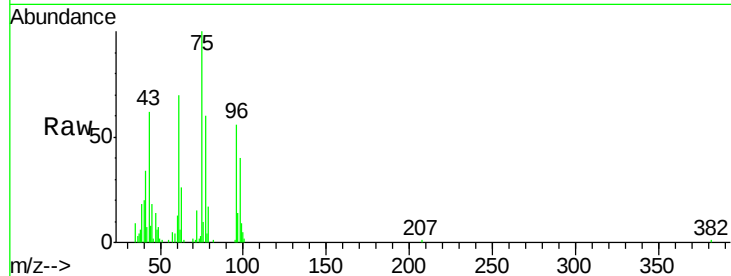
72 24.1 22.1 33.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 5.200 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065932.D

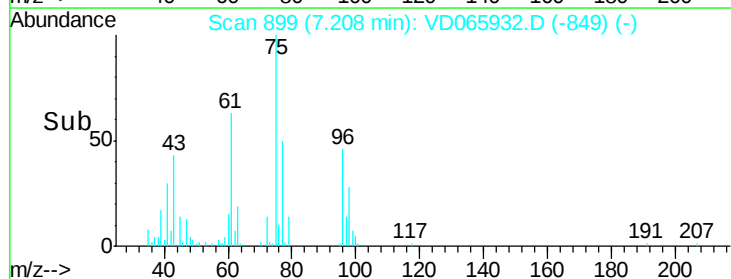
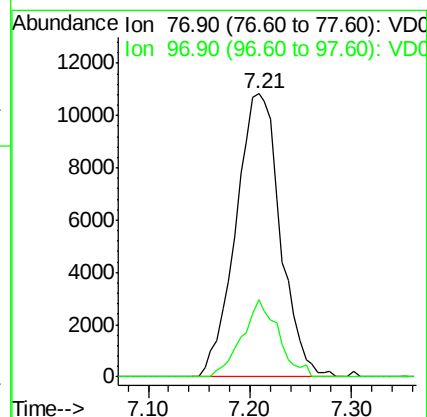
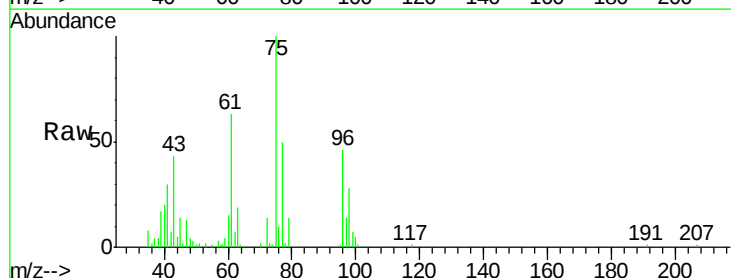
Acq: 07 Jul 2020 20:26

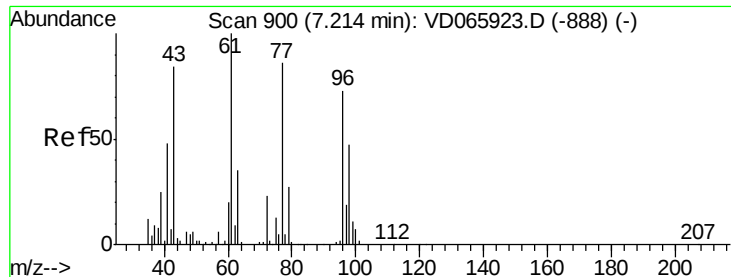
Tgt Ion: 77 Resp: 32939

Ion Ratio Lower Upper

77 100

97 22.5 11.6 34.8





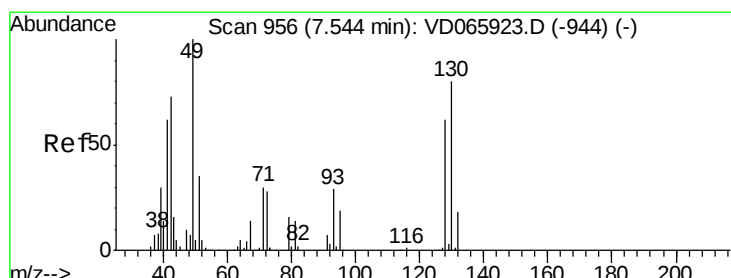
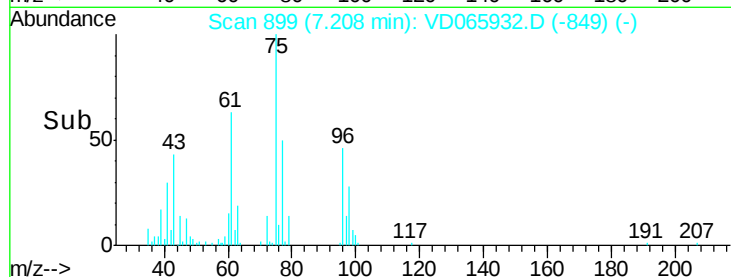
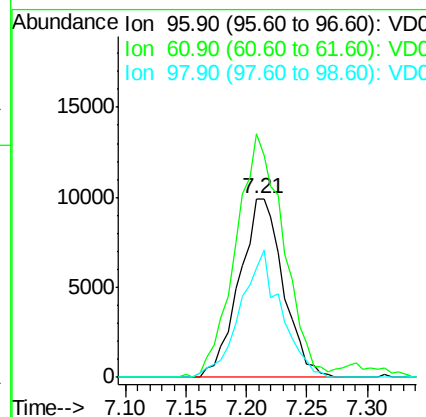
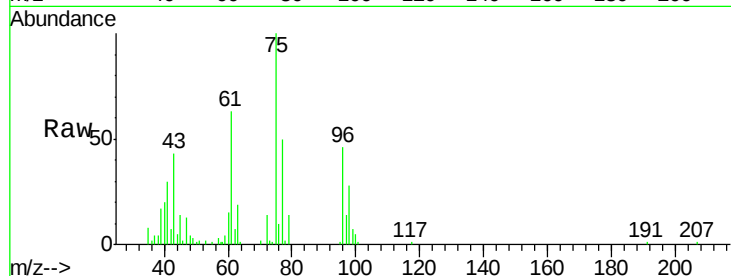
#27
 cis-1,2-Dichloroethene
 Concen: 5.427 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.1	0.0	286.6
98	66.6	0.0	128.2

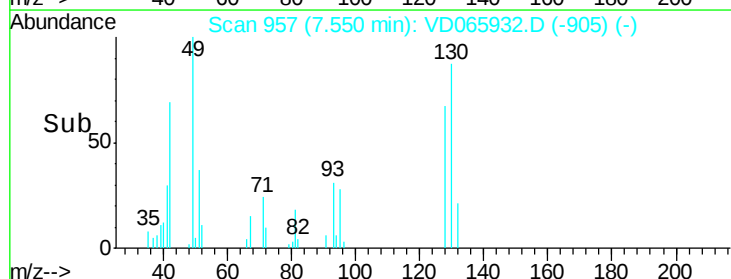
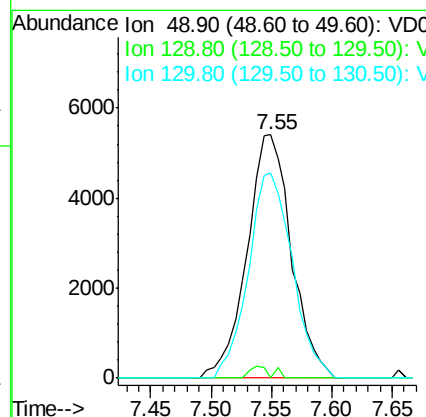
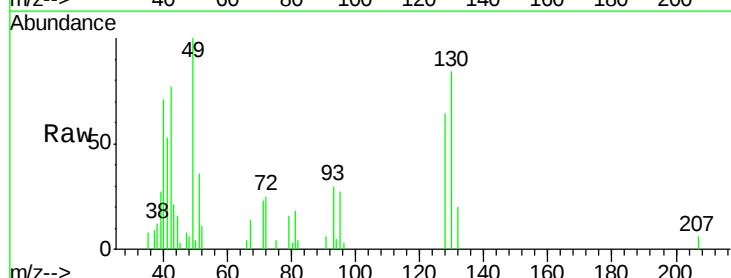
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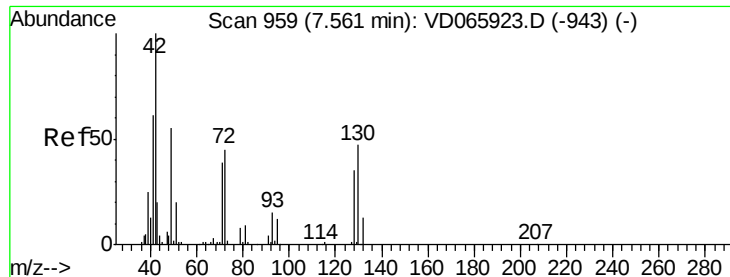
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 7/8/2020 12:20:01 PM



#28
 Bromochloromethane
 Concen: 5.049 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.8
130	83.4	65.8	98.8





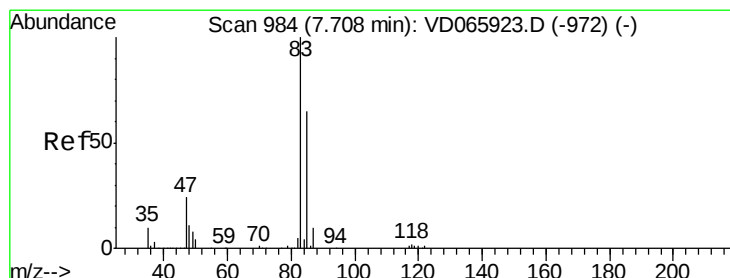
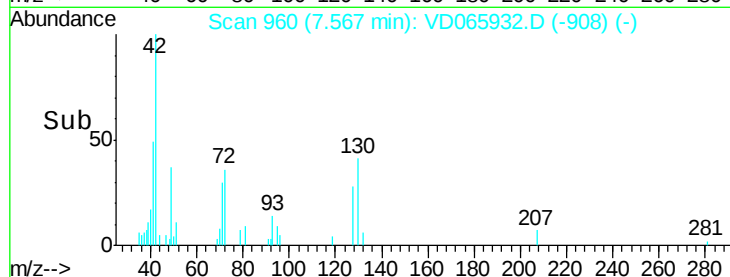
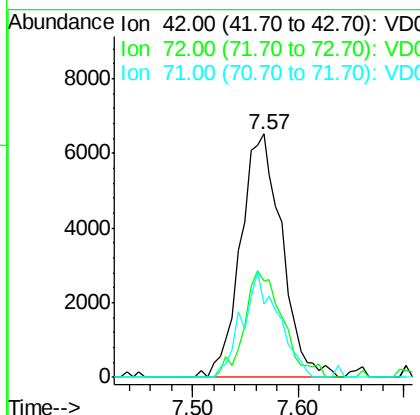
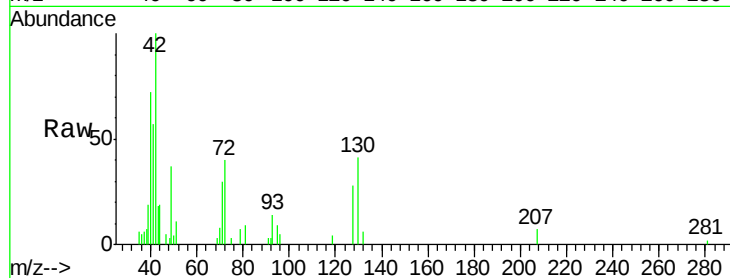
#29
Tetrahydrofuran
Concen: 25.735 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.8	49.2
71	37.9	31.0	46.4

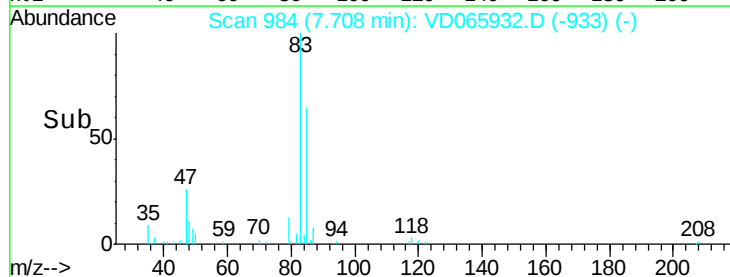
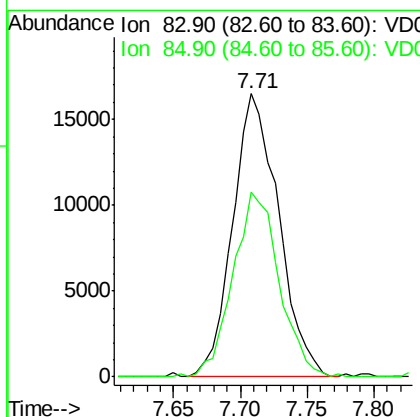
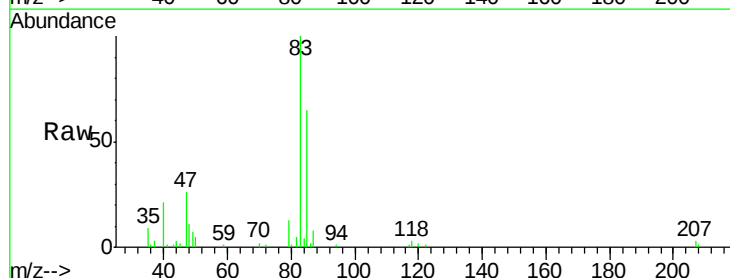
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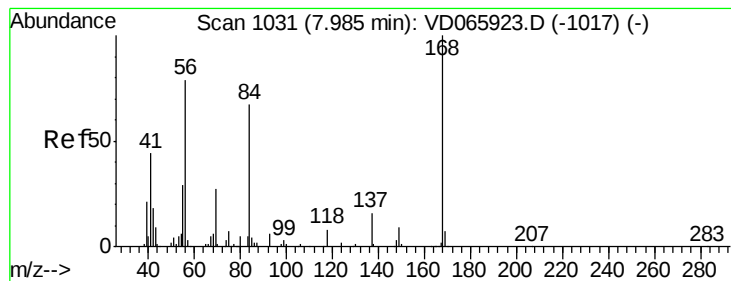
MMDadoda
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#30
Chloroform
Concen: 5.365 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.6	77.4





#31

Cyclohexane

Concen: 5.617 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleID :

LOQ-SOIL-02-QT3-2020

Tot Ion: 56 Resp: 40022

Ion Ratio Lower Upper

56 100

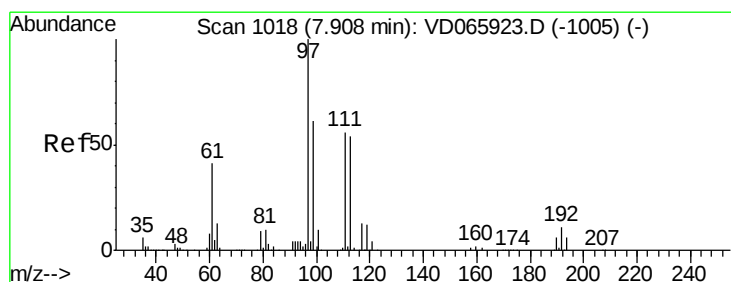
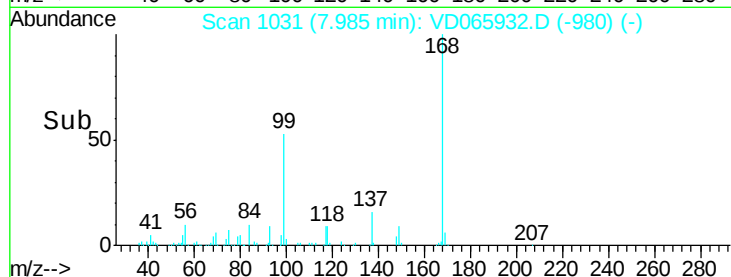
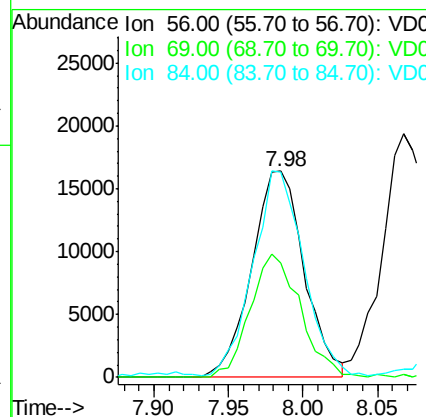
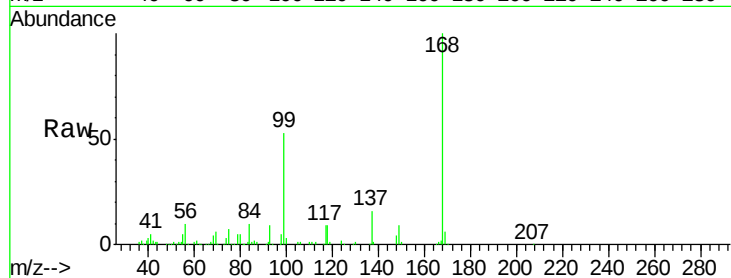
69 55.8 27.4 41.0#

84 98.1 68.6 102.8

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#32

1,1,1-Trichloroethane

Concen: 5.254 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

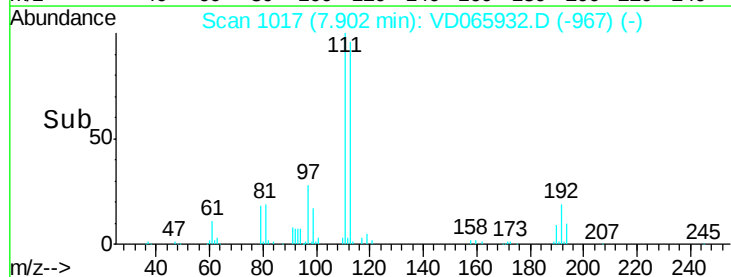
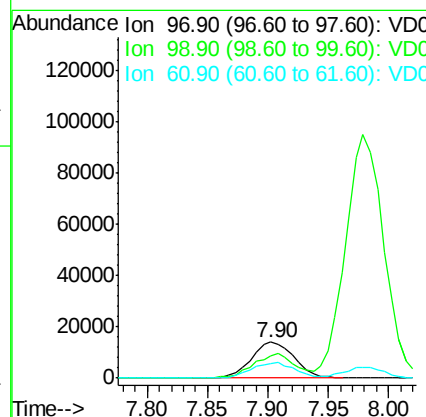
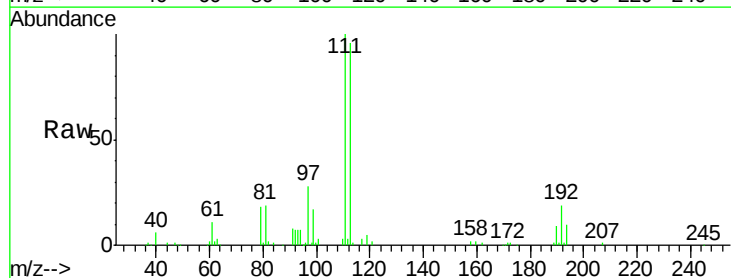
Tgt Ion: 97 Resp: 35196

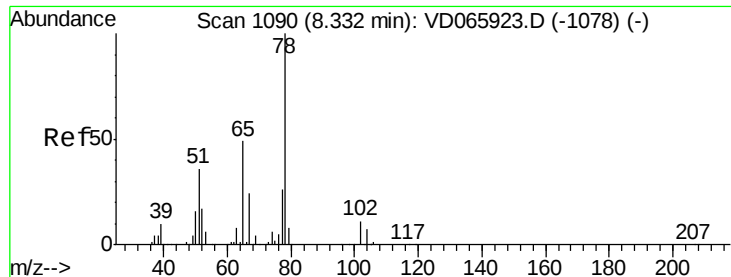
Ion Ratio Lower Upper

97 100

99 66.3 51.6 77.4

61 44.1 33.6 50.4





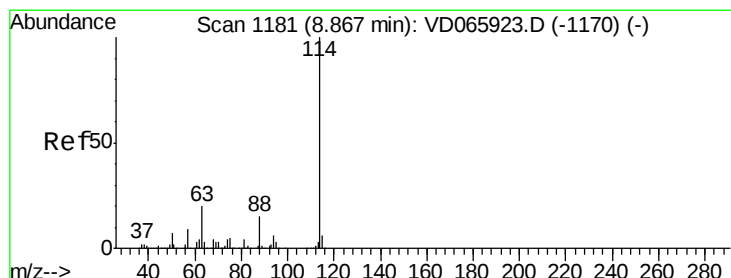
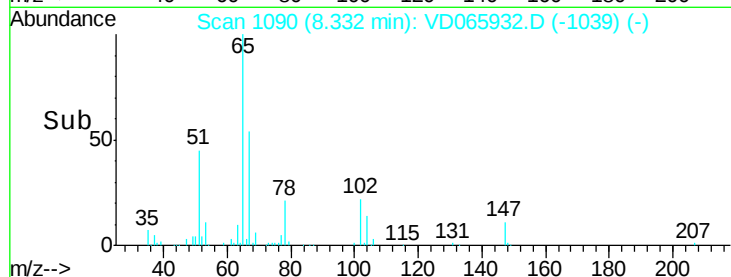
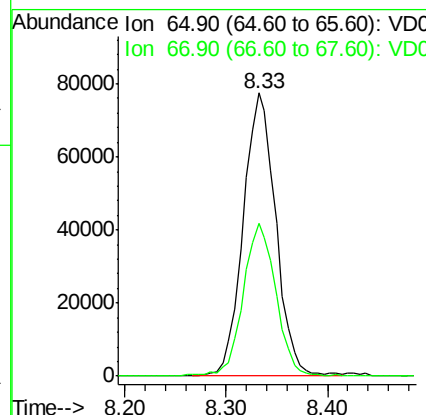
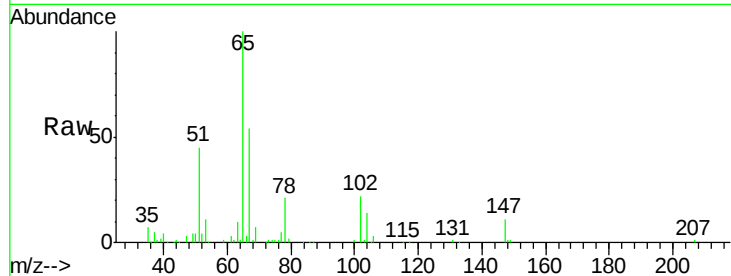
#33
 1,2-Dichloroethane-d4
 Concen: 49.530 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	172706		
67	54.1	0.0	105.6	

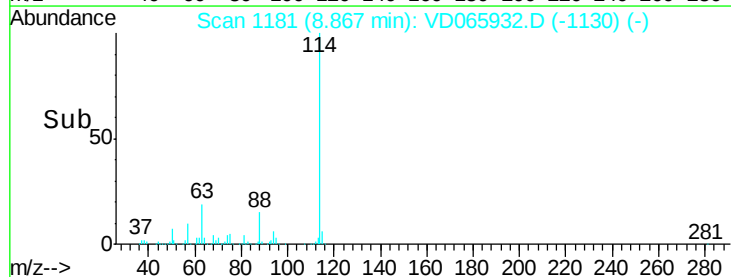
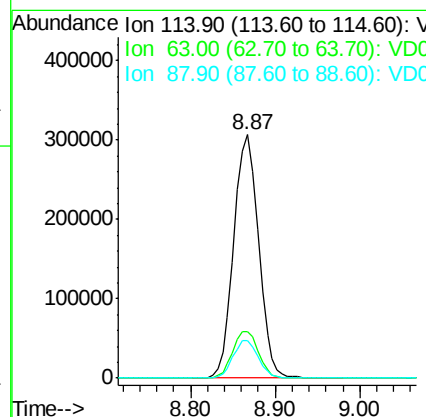
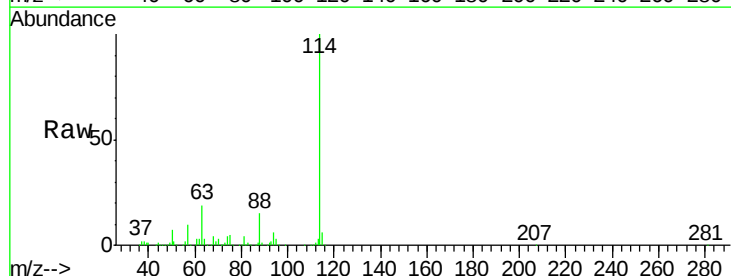
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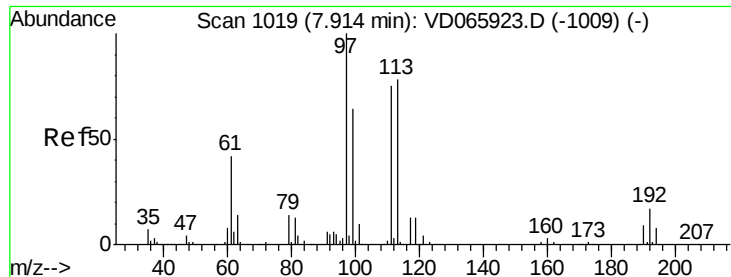
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	623677		
63	19.0	0.0	39.2	
88	15.4	0.0	30.0	





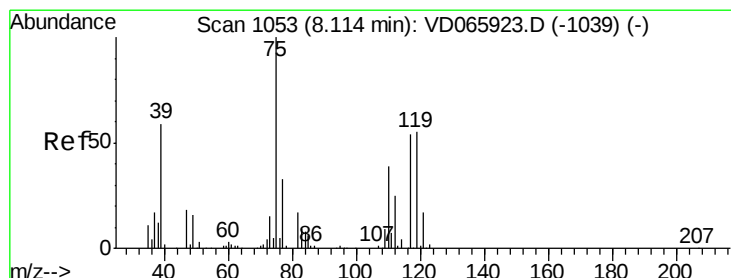
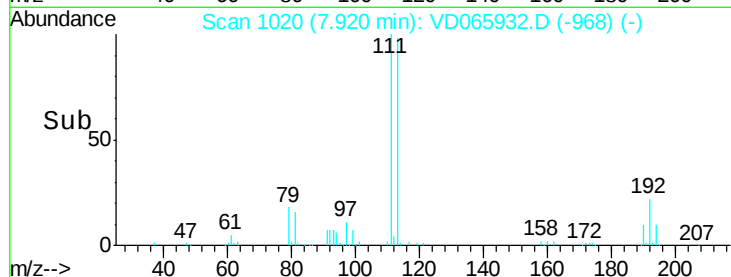
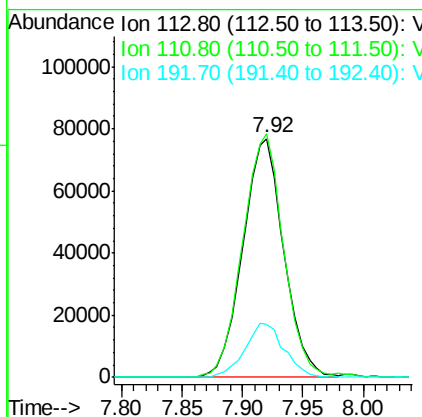
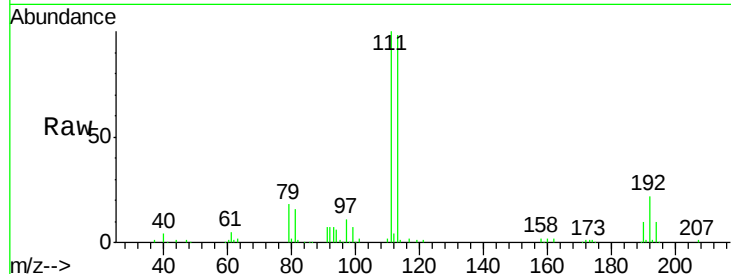
#35
Dibromofluoromethane
Concen: 47.197 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	181587		
111	101.6	80.9	121.3	
192	21.8	17.1	25.7	

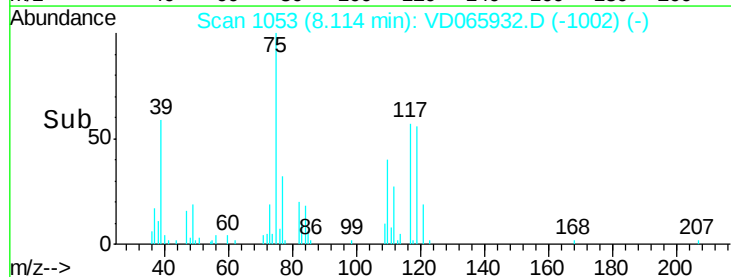
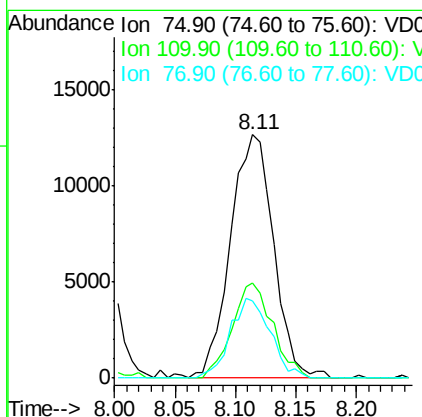
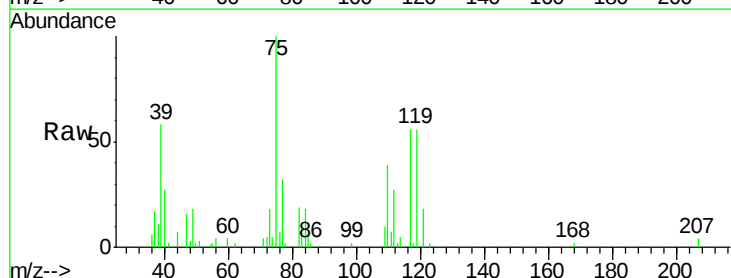
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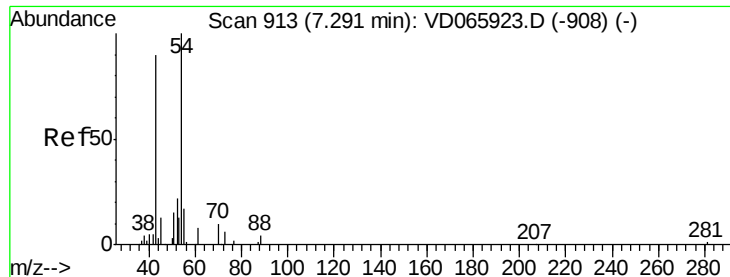
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#36
1,1-Dichloropropene
Concen: 5.125 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	31566		
110	36.6	18.5	55.5	
77	30.4	25.6	38.4	





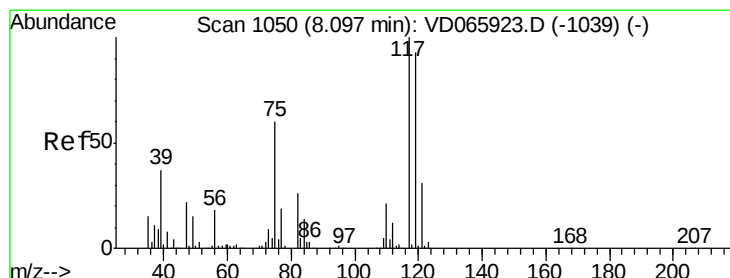
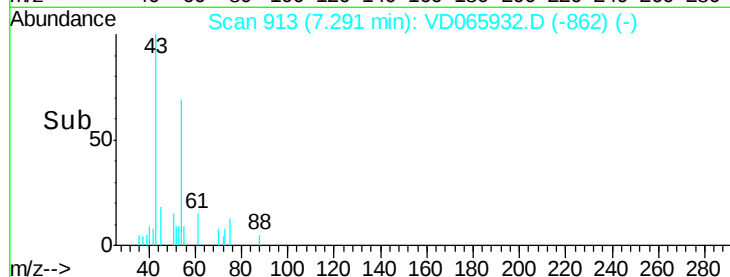
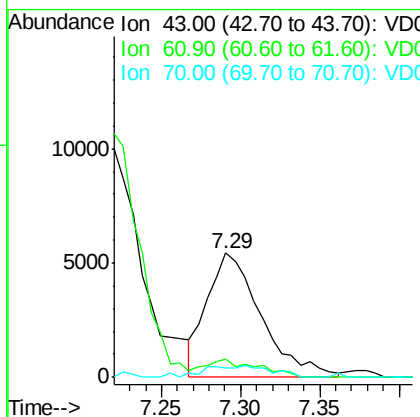
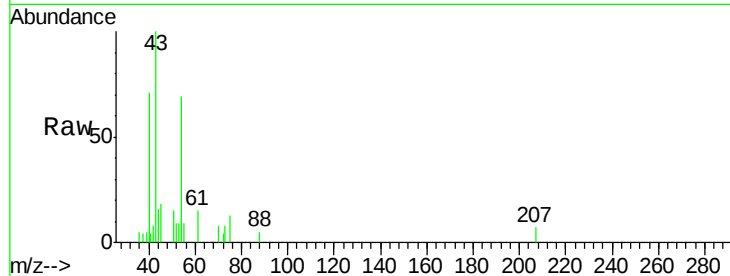
#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.29 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	9.4	14.0#
70	6.3	8.3	12.5#

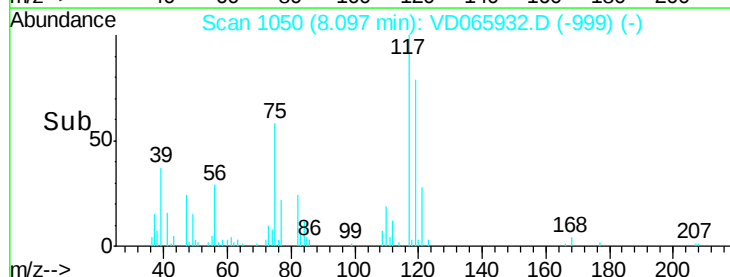
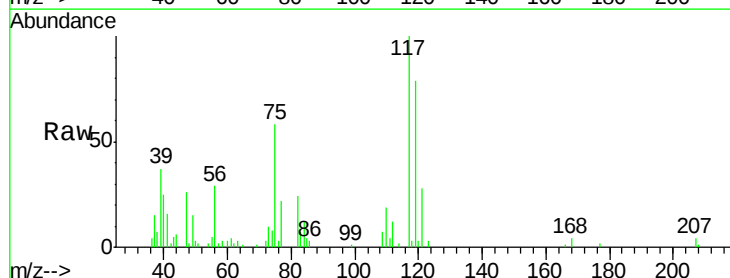
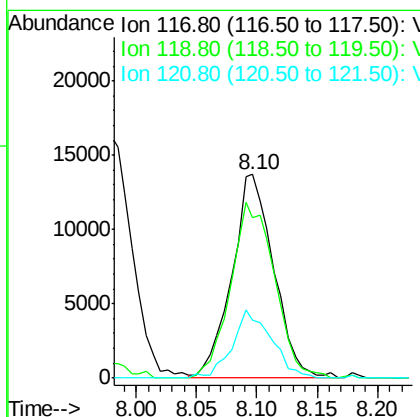
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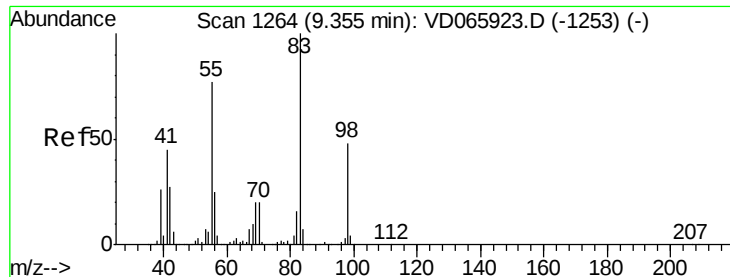
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#38
Carbon Tetrachloride
Concen: 5.007 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	79.0	74.7	112.1
121	28.3	24.9	37.3





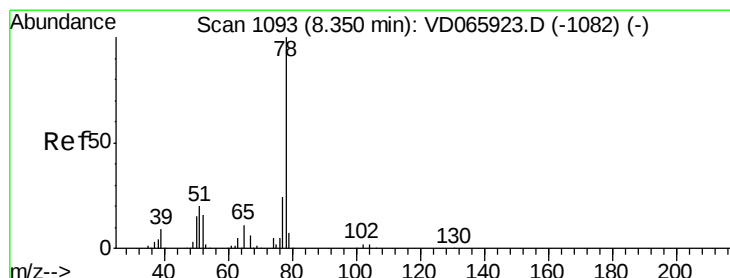
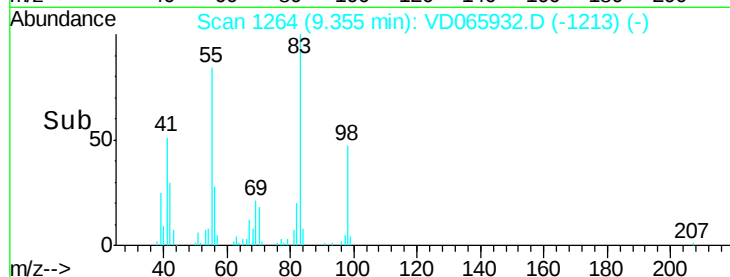
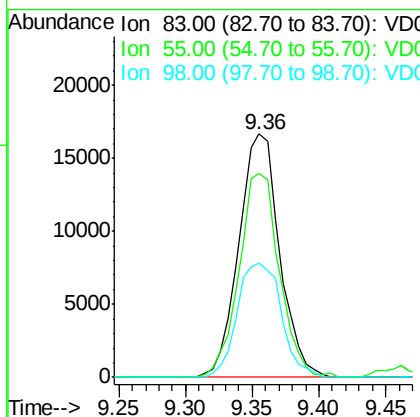
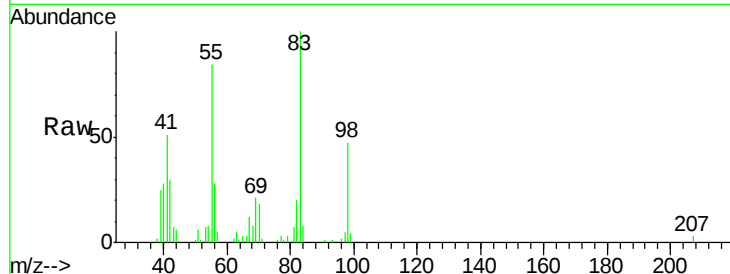
#39
Methvlcvclohexane
Concen: 4.657 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.6	61.7	92.5
98	47.1	38.6	58.0

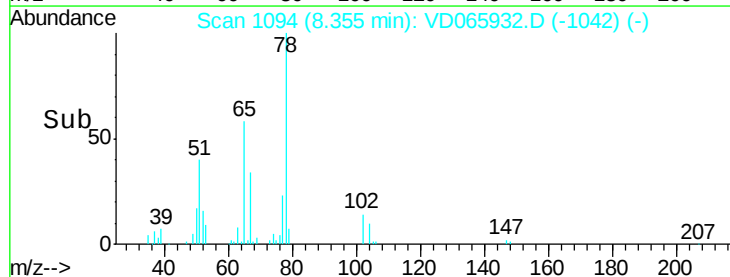
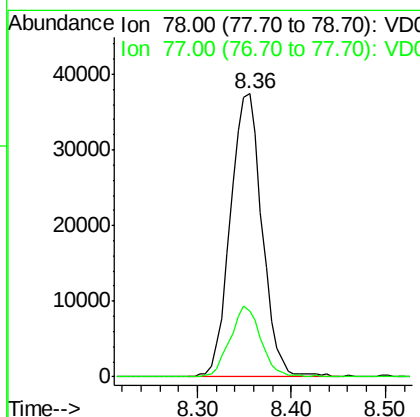
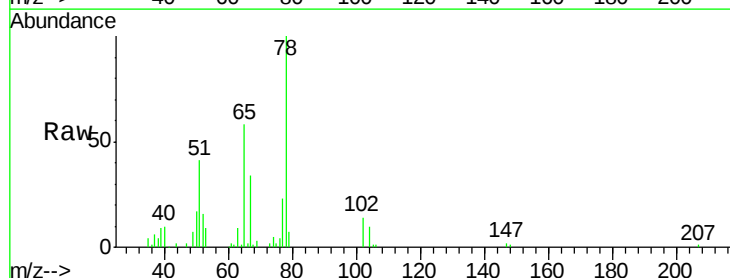
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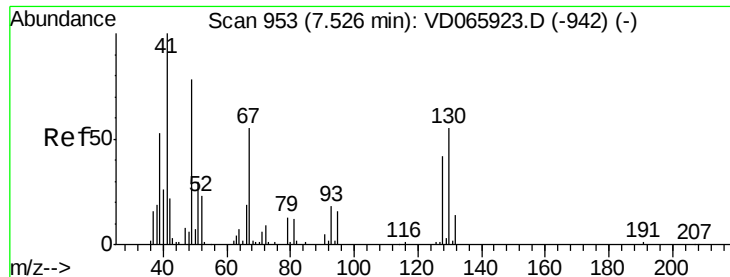
MMDadoda
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#40
Benzene
Concen: 5.149 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.4	29.0





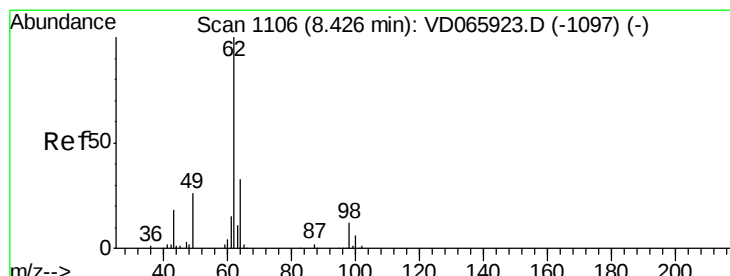
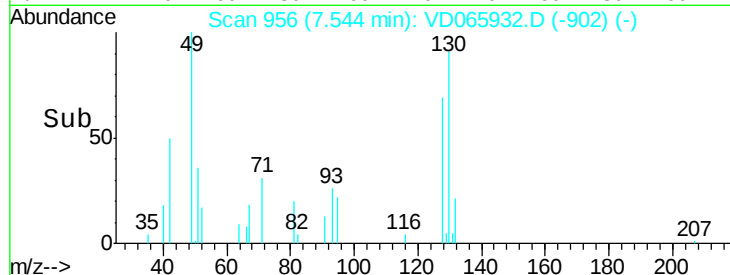
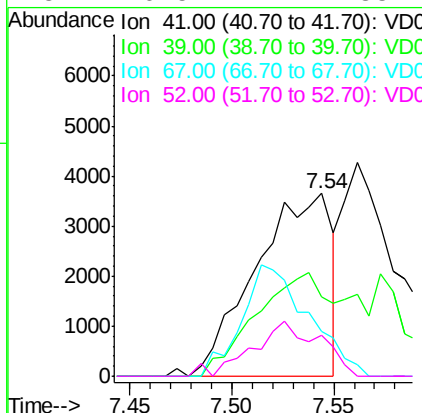
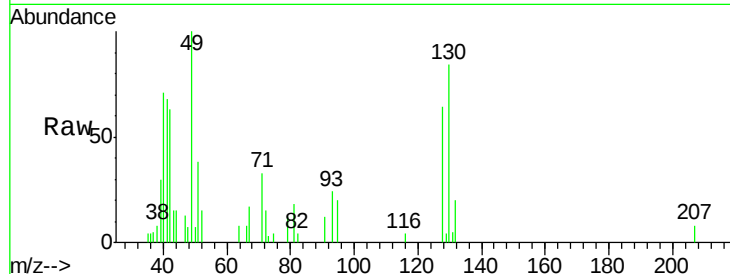
#41
Methacrylonitrile
Concen: 6.341 ug/l m
RT: 7.54 min Scan# 956
Delta R.T. 0.02 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	59.2	42.4	63.6
67	0.0	53.6	80.4#
52	26.5	22.2	33.2

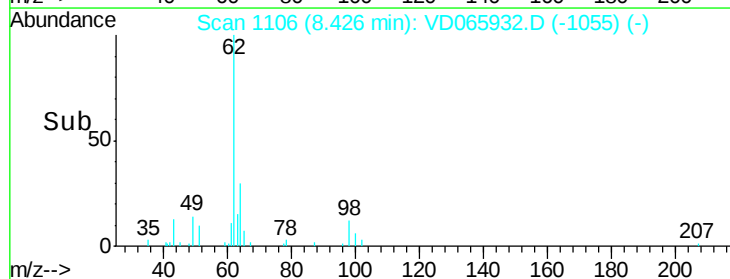
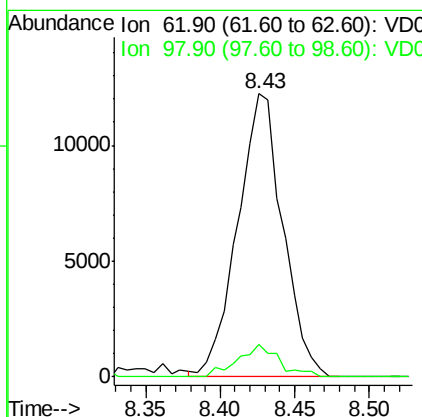
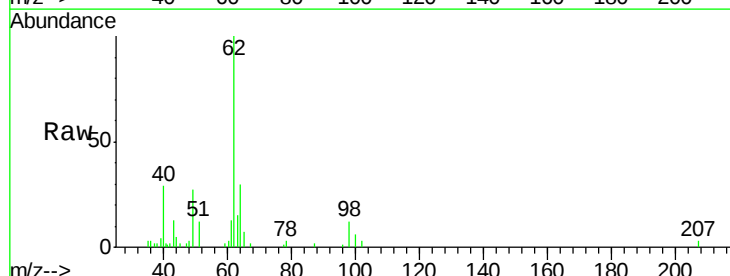
Manual Integrations
APPROVED

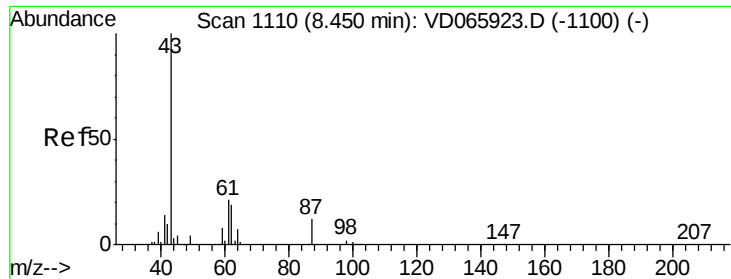
MMDadoda
7/8/2020 12:20:01 PM



#42
1,2-Dichloroethane
Concen: 5.328 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	20.0





#43

Isopropyl Acetate

Concen: 4.751 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

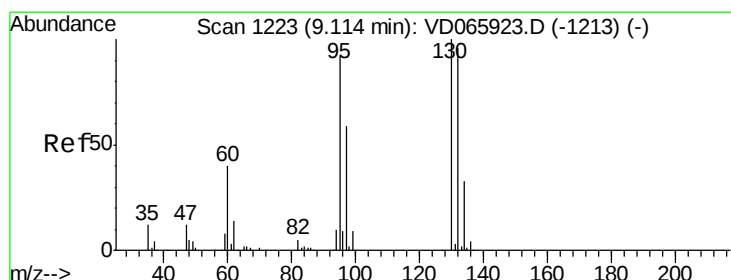
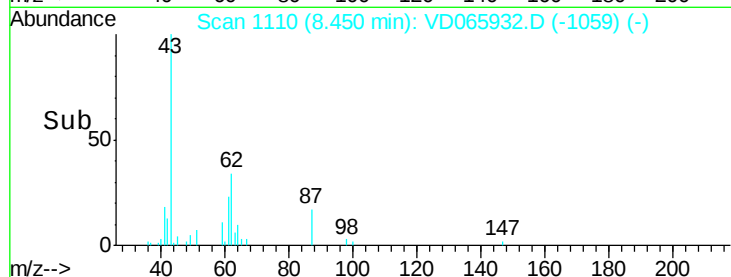
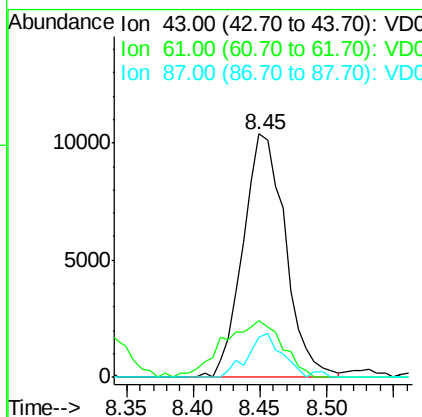
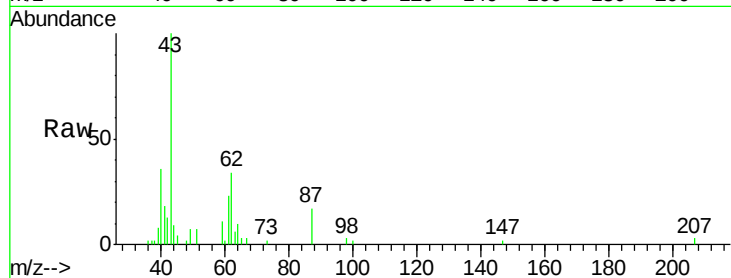
ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:	43	Resp:	22822
Ion	Ratio	Lower	Upper
43	100		
61	32.6	23.2	34.8
87	14.5	10.0	15.0

Manual Integrations
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7/8/2020 12:20:01 PM



#44

Trichloroethene

Concen: 4.968 ug/l

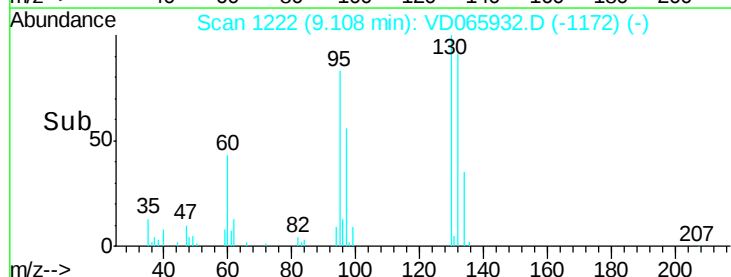
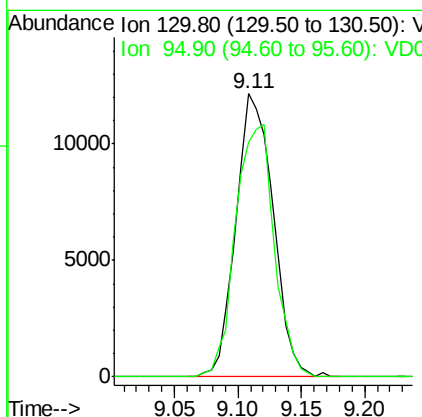
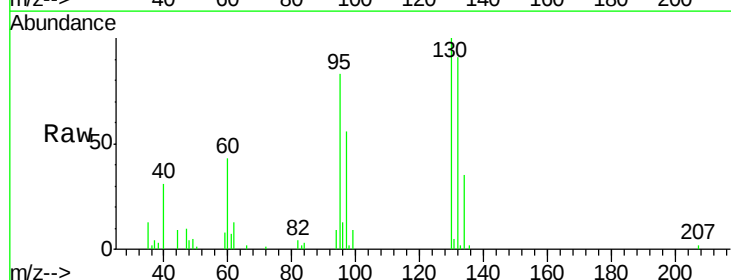
RT: 9.11 min Scan# 1222

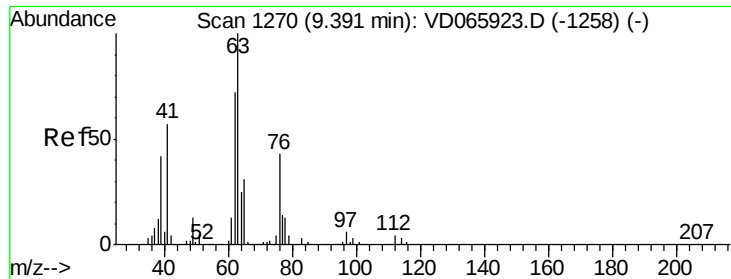
Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion:	130	Resp:	24839
Ion	Ratio	Lower	Upper
130	100		
95	82.9	0.0	184.6





#45

1,2-Dichloropropane

Concen: 5.226 ug/l

RT: 9.38 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 63 Resp: 22071

Ion Ratio Lower Upper

63 100

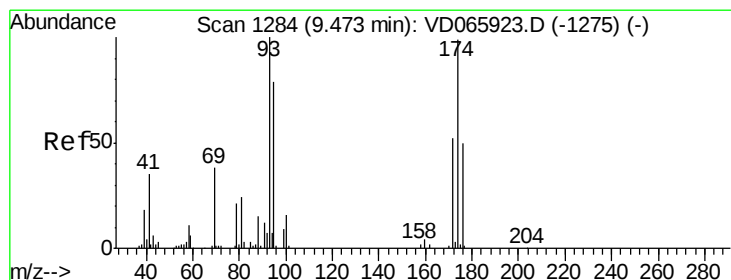
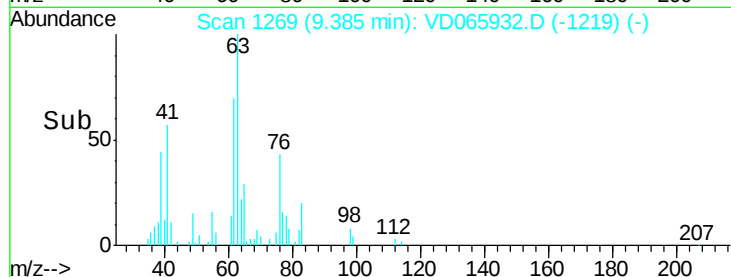
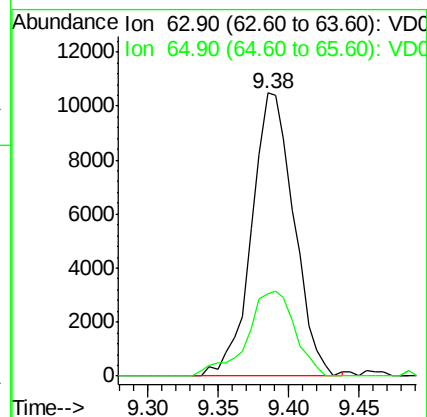
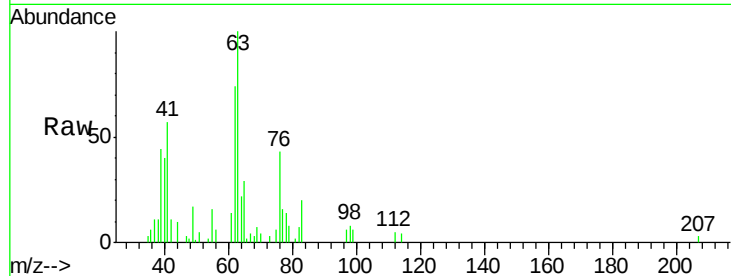
65 29.2 25.0 37.6

Manual Integrations

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7/8/2020 12:20:01 PM



#46

Dibromomethane

Concen: 4.912 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

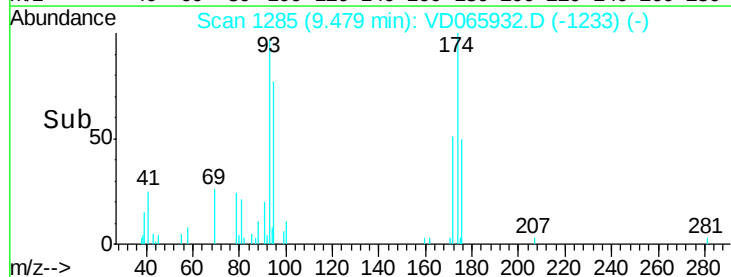
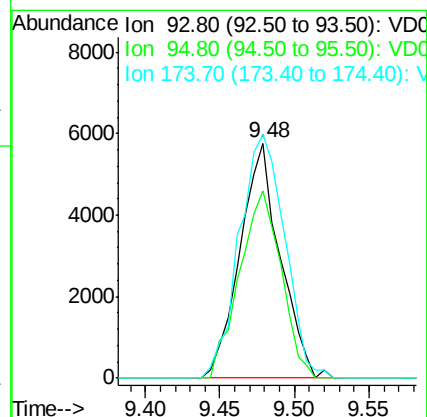
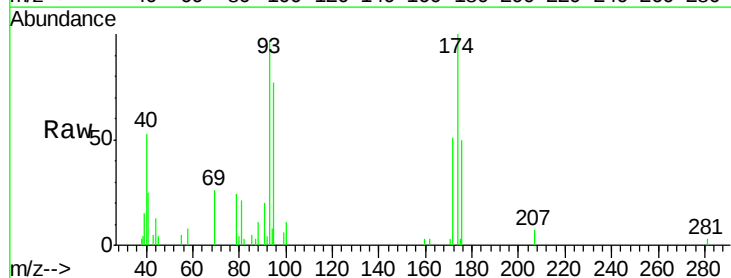
Tgt Ion: 93 Resp: 10802

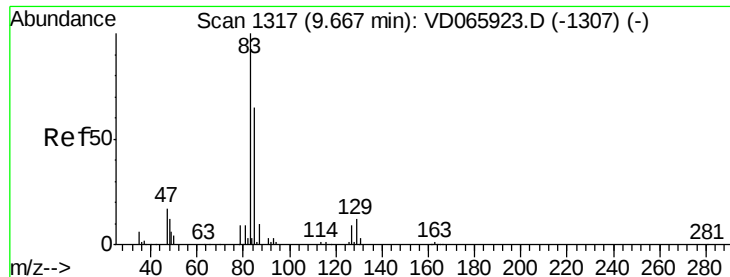
Ion Ratio Lower Upper

93 100

95 82.1 68.2 102.2

174 116.8 88.0 132.0





#47

Bromodichloromethane

Concen: 5.086 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

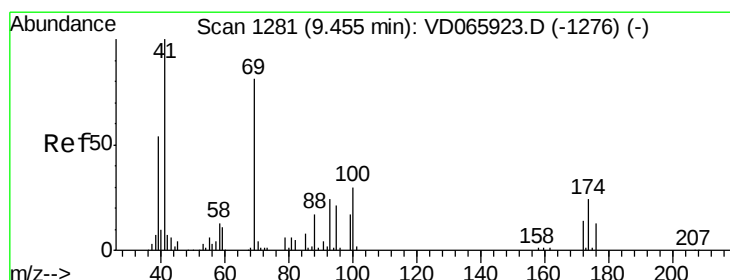
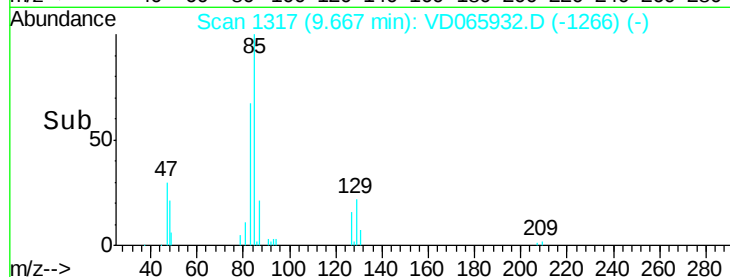
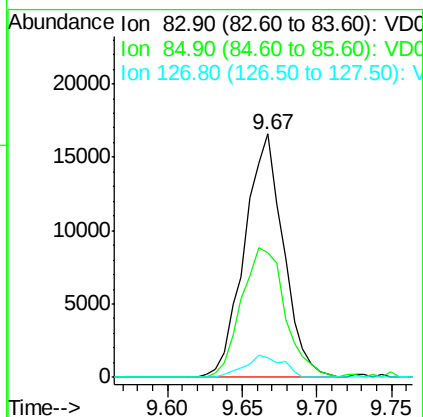
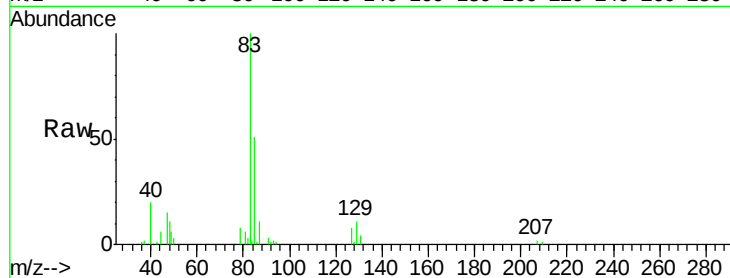
ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:	83	Resp:	29997
Ion Ratio	Lower	Upper	
83	100		
85	51.3	51.6	77.4#
127	8.2	7.2	10.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.777 ug/l

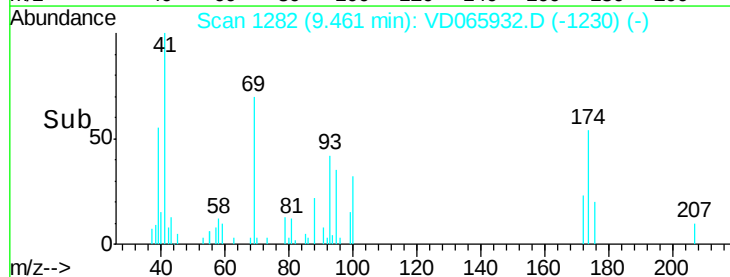
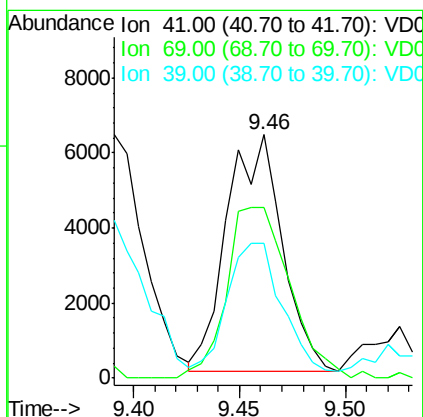
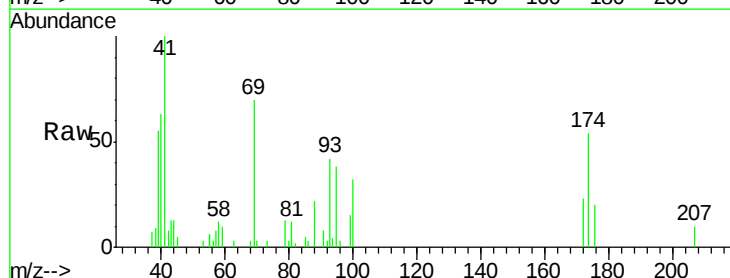
RT: 9.46 min Scan# 1282

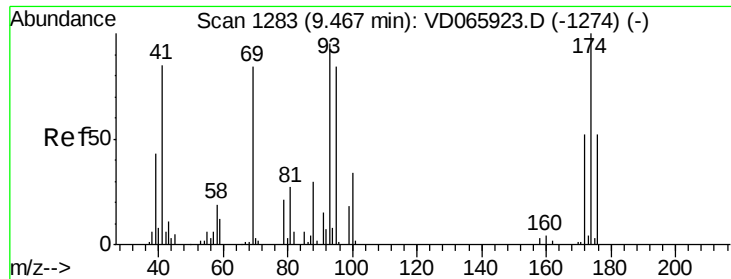
Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion:	41	Resp:	11552
Ion Ratio	Lower	Upper	
41	100		
69	82.1	62.2	93.4
39	52.6	39.9	59.9





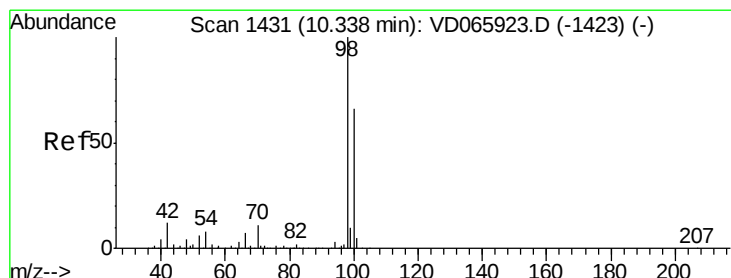
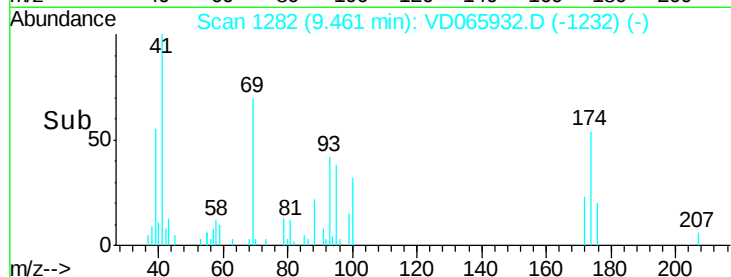
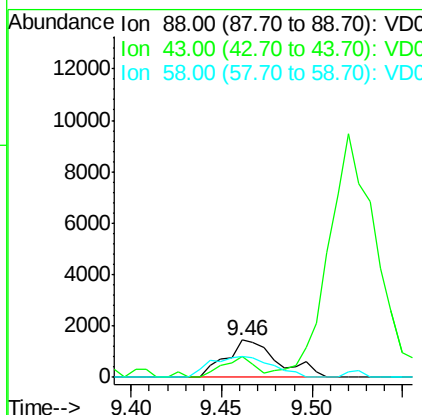
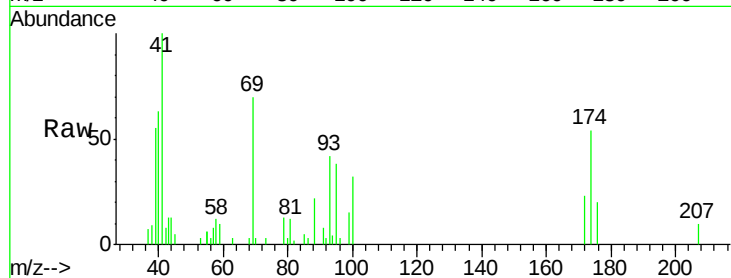
#49
1,4-Dioxane
Concen: 110.230 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.3	28.2	42.4
58	65.8	58.6	87.8

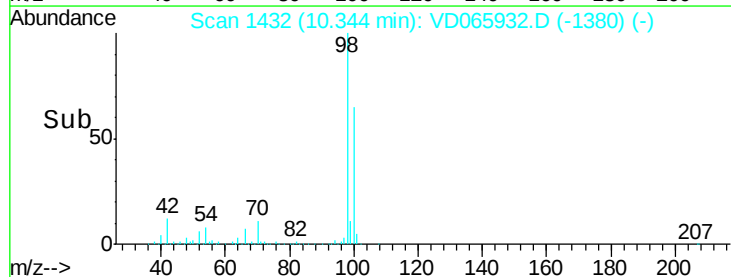
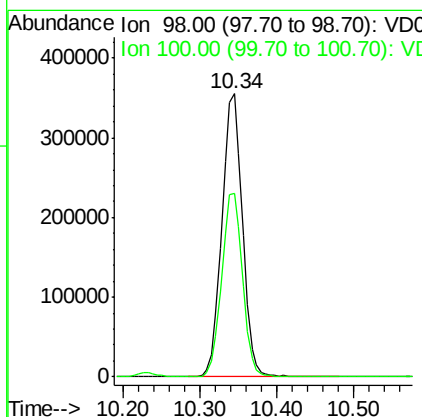
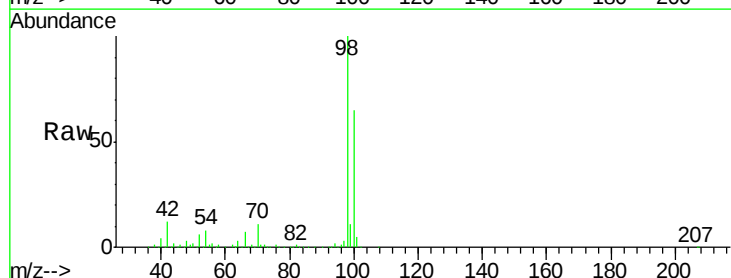
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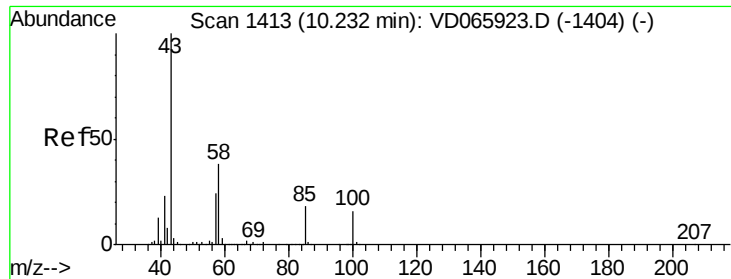
MMDadoda
7/8/2020 12:20:01 PM



#50
Toluene-d8
Concen: 46.972 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.1	79.7





#51

4-Methyl-2-Pentanone

Concen: 24.399 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 59260

Ion Ratio Lower Upper

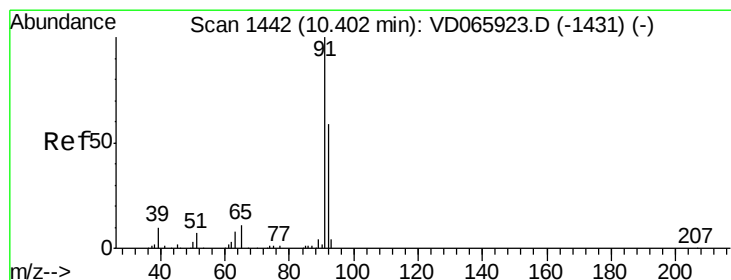
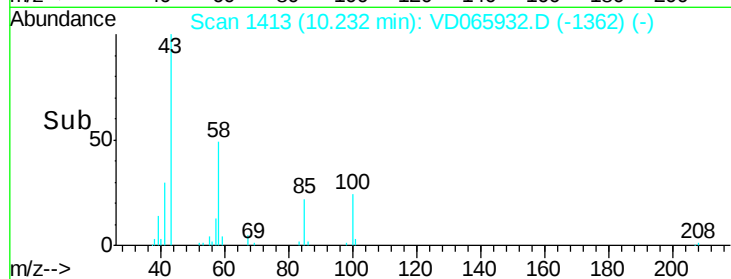
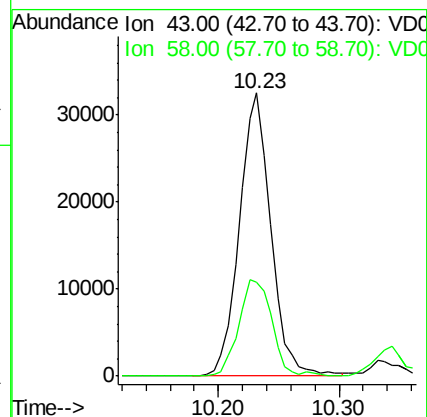
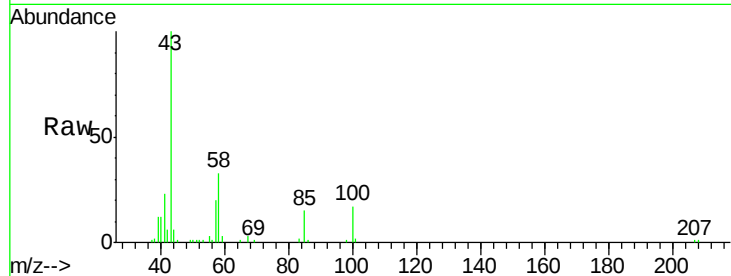
43 100

58 35.9 30.5 45.7

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7/8/2020 12:20:01 PM



#52

Toluene

Concen: 5.167 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD065932.D

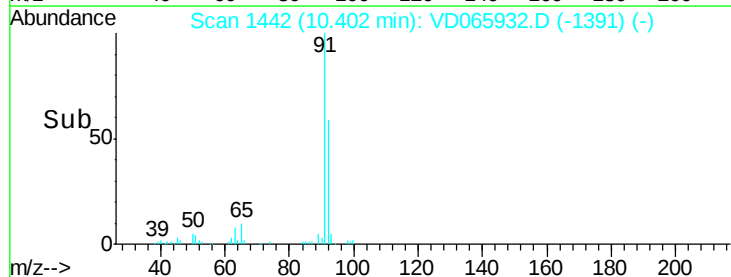
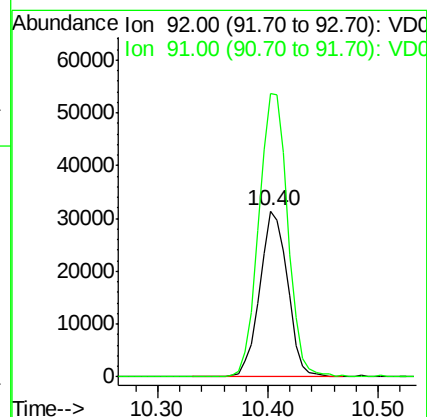
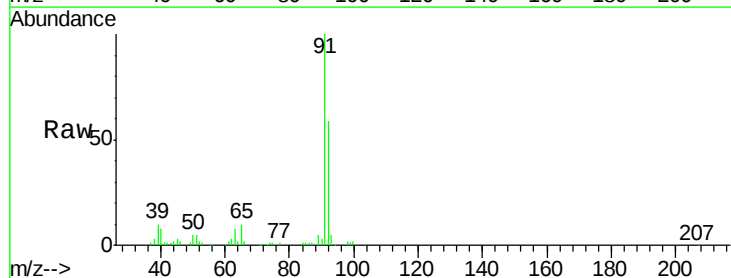
Acq: 07 Jul 2020 20:26

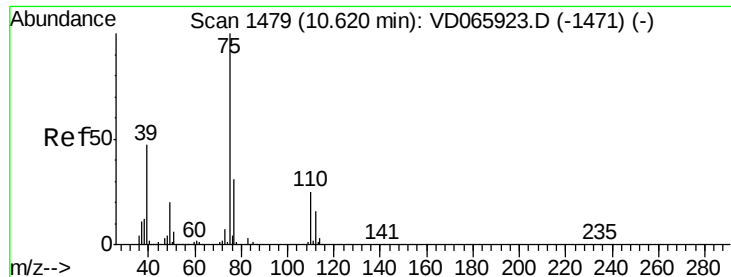
Tgt Ion: 92 Resp: 55942

Ion Ratio Lower Upper

92 100

91 177.5 136.0 204.0





#53

t-1,3-Dichloropropene

Concen: 4.631 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 75 Resp: 25684

Ion Ratio Lower Upper

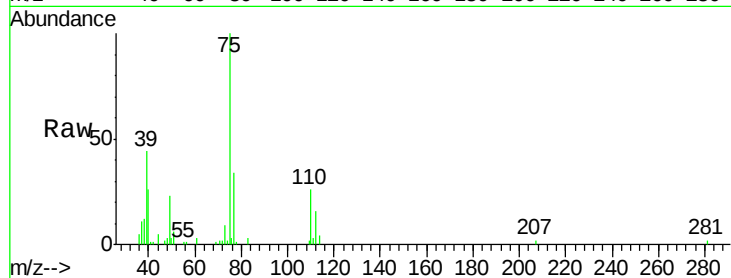
75 100

77 34.0 25.1 37.7

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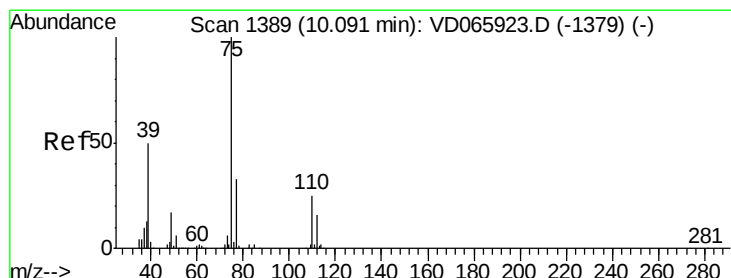
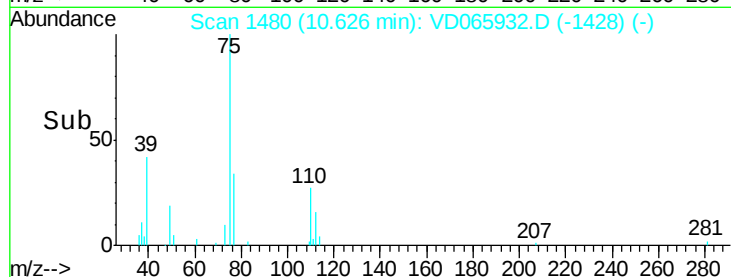
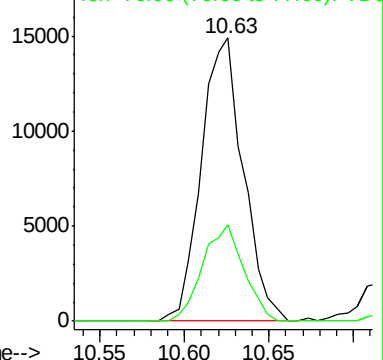
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7/8/2020 12:20:01 PM



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: 4.874 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

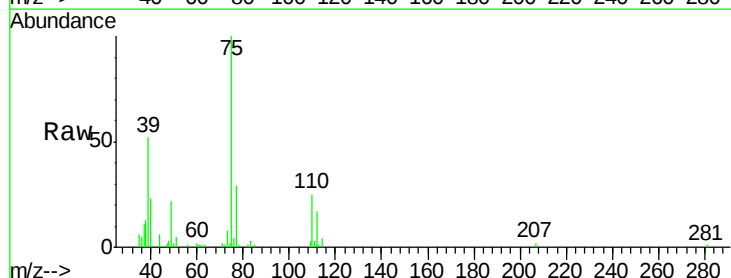
Tgt Ion: 75 Resp: 32662

Ion Ratio Lower Upper

75 100

77 28.9 26.6 39.8

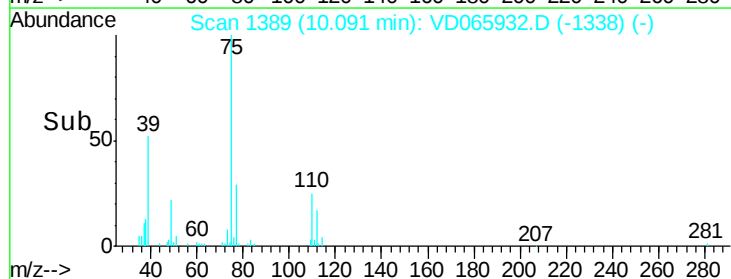
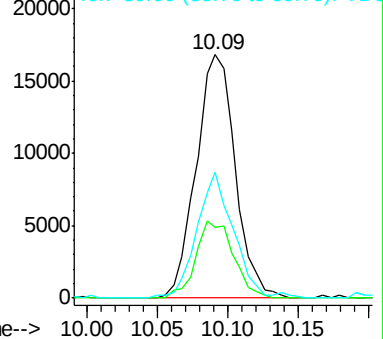
39 51.9 39.6 59.4

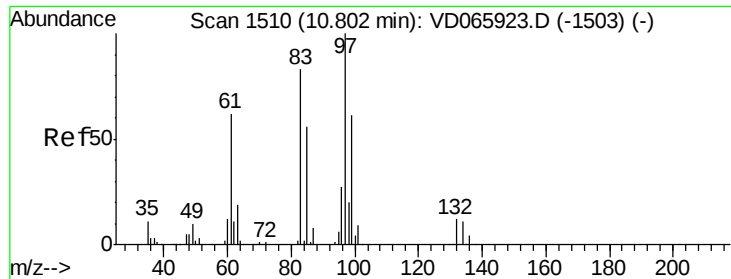


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC





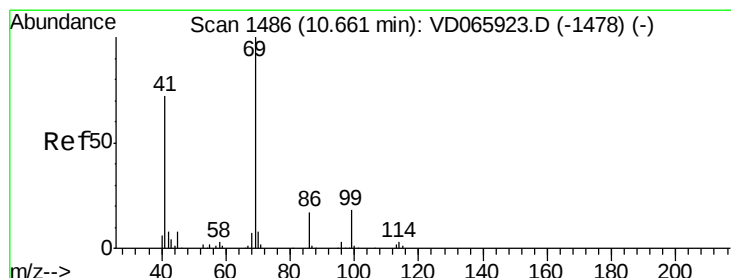
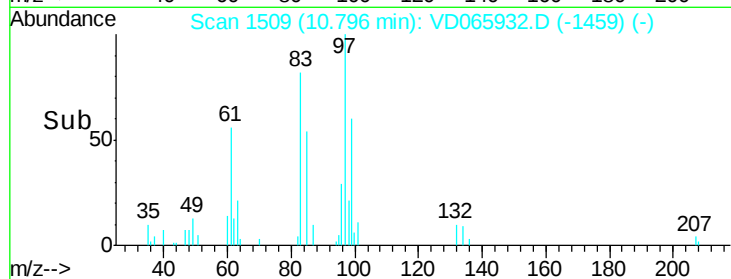
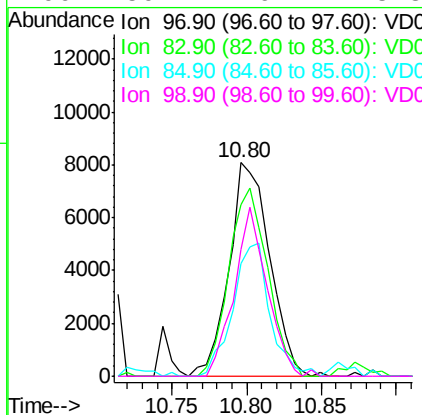
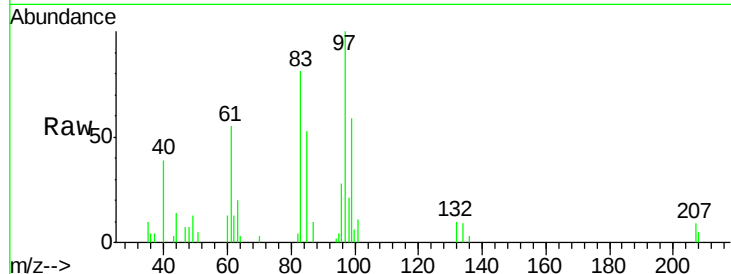
#55
 1,1,2-Trichloroethane
 Concen: 5.070 ug/l
 RT: 10.80 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion:	97	Resp:	15361
Ion	Ratio	Lower	Upper
97	100		
83	80.5	66.9	100.3
85	52.9	44.5	66.7
99	59.2	49.2	73.8

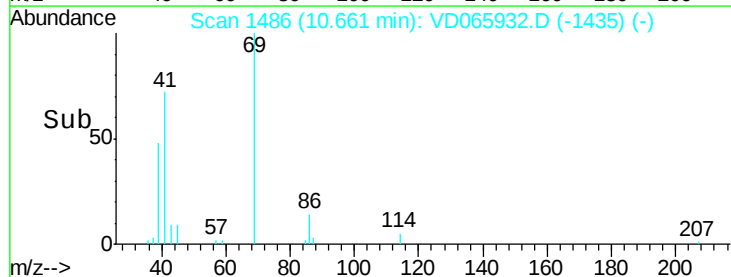
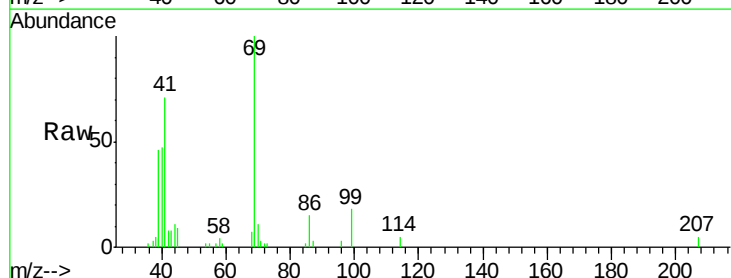
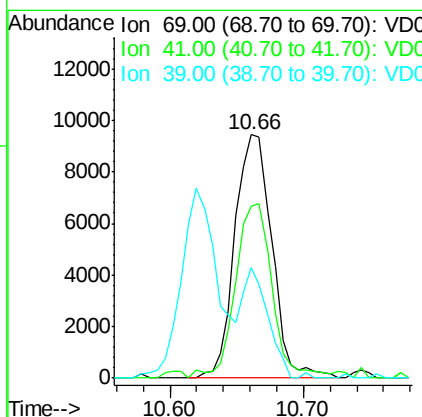
Manual Integrations
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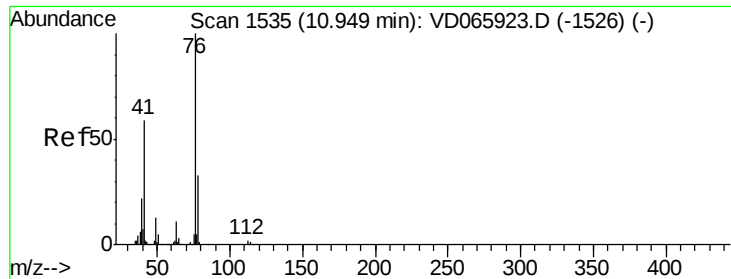
MMDadoda
 7/8/2020 12:20:01 PM



#56
 Ethyl methacrylate
 Concen: 4.920 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion:	69	Resp:	18207
Ion	Ratio	Lower	Upper
69	100		
41	71.7	56.5	84.7
39	30.8	29.2	43.8





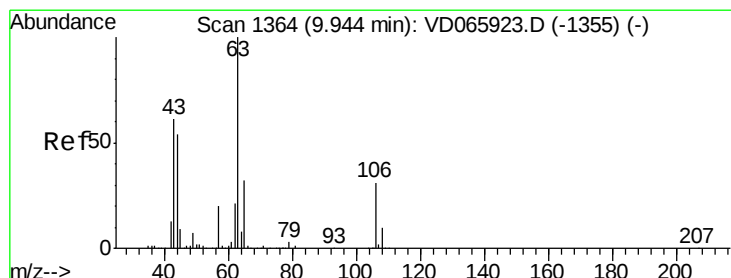
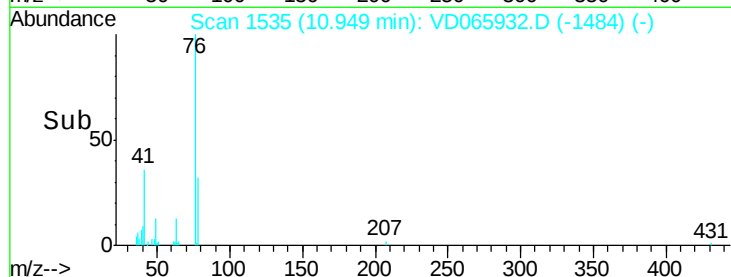
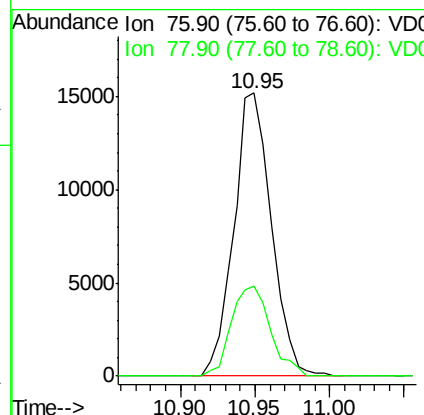
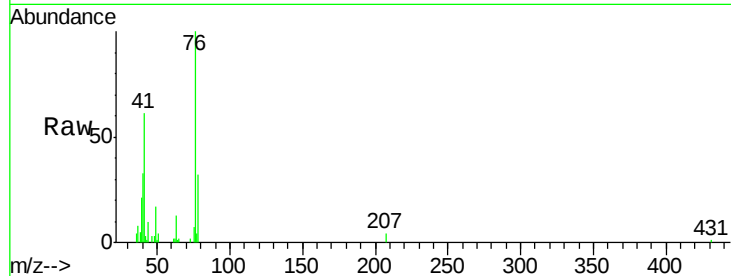
#57
 1,3-Dichloropropane
 Concen: 5.026 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.8	38.6

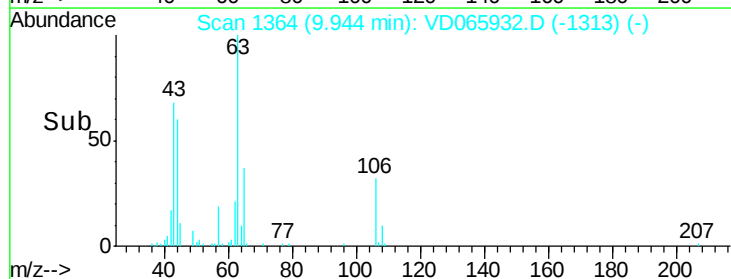
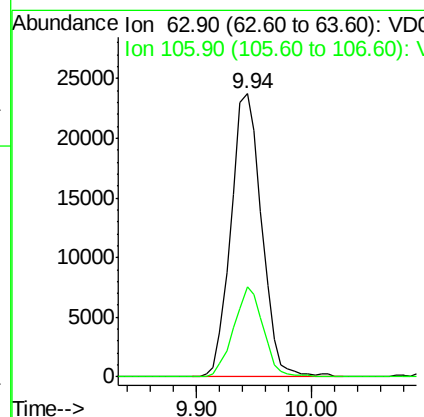
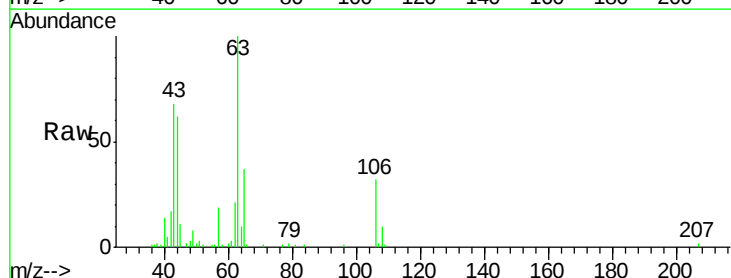
Manual Integrations
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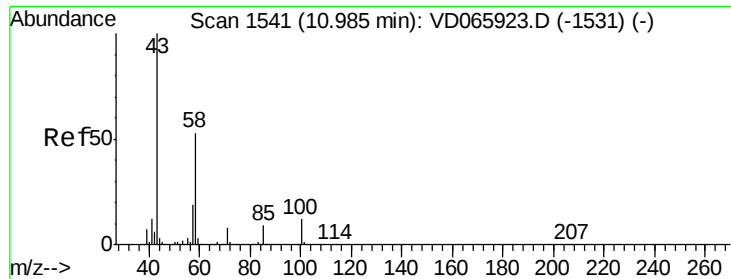
MMDadoda
 7/8/2020 12:20:01 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 24.434 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
63	100		
106	30.6	23.8	35.6





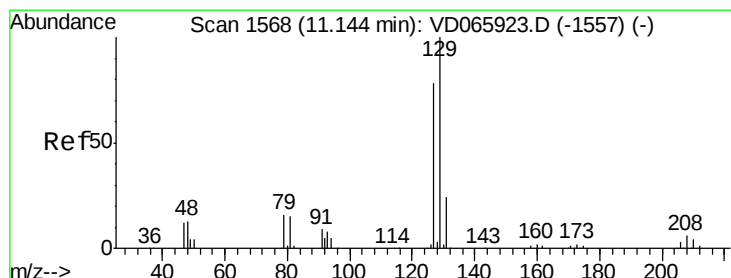
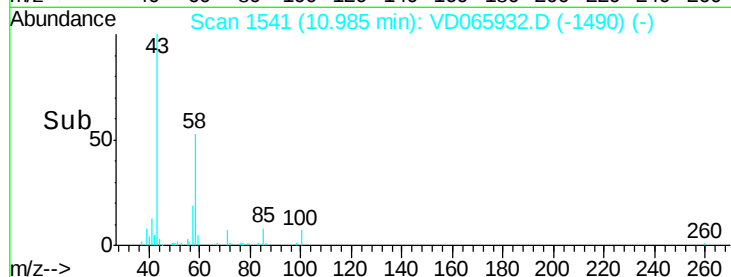
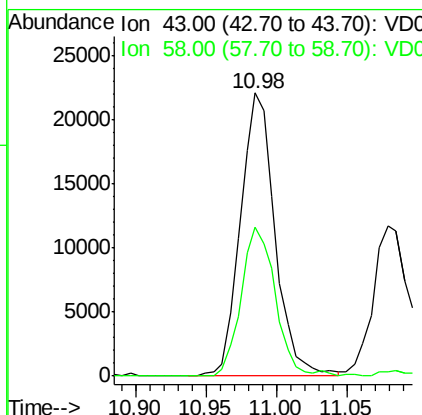
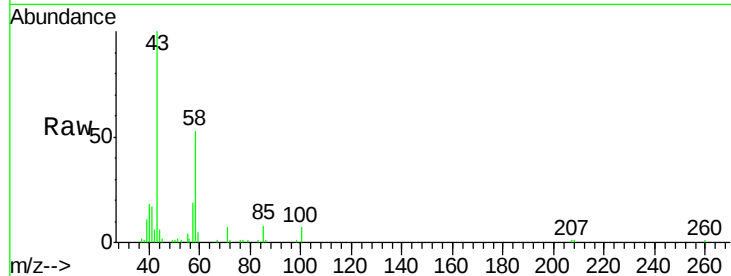
#59
2-Hexanone
Concen: 22.639 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 37815
Ion Ratio Lower Upper
43 100
58 52.4 26.6 79.8

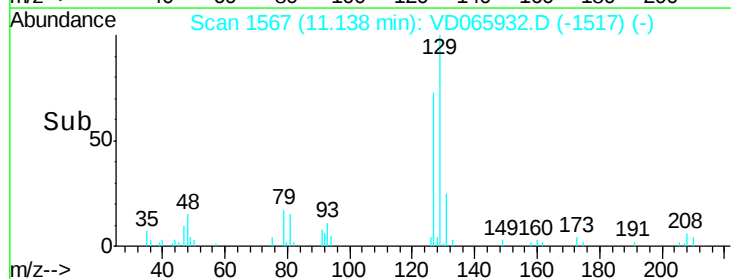
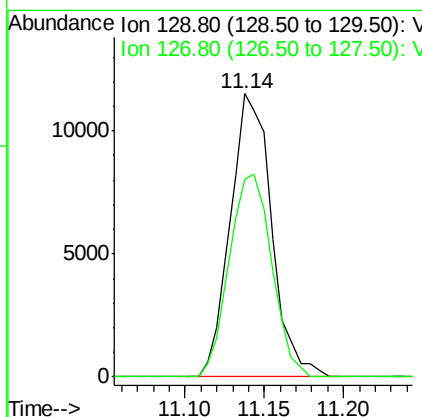
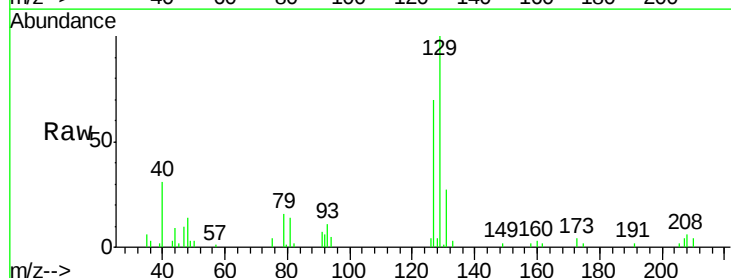
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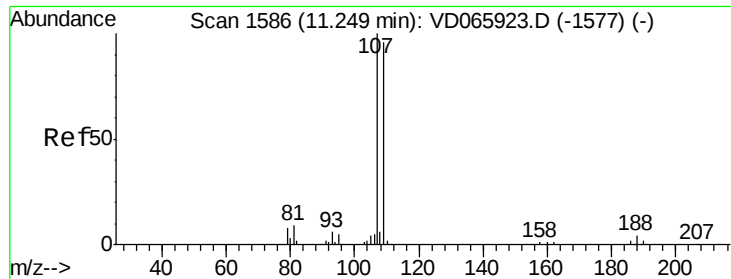
MMDadoda
7/8/2020 12:20:01 PM



#60
Dibromochloromethane
Concen: 5.001 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 129 Resp: 20700
Ion Ratio Lower Upper
129 100
127 74.1 38.8 116.4





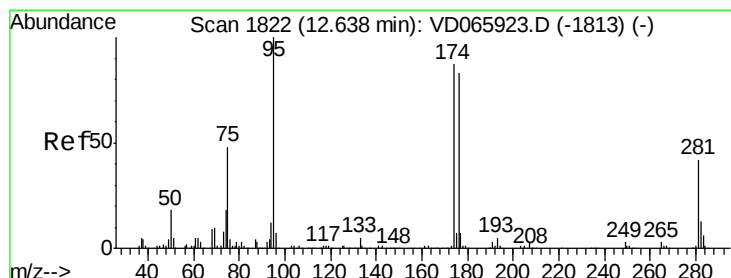
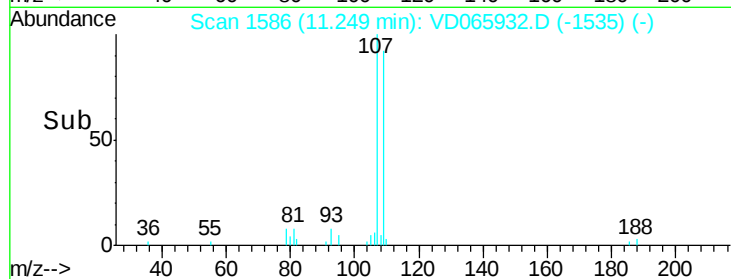
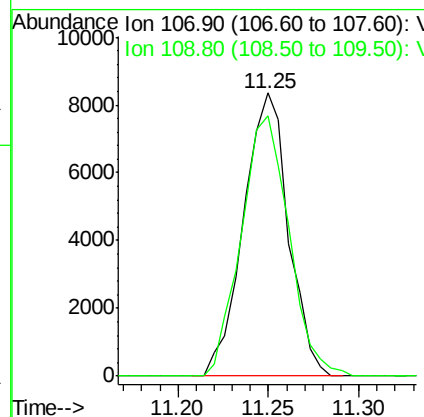
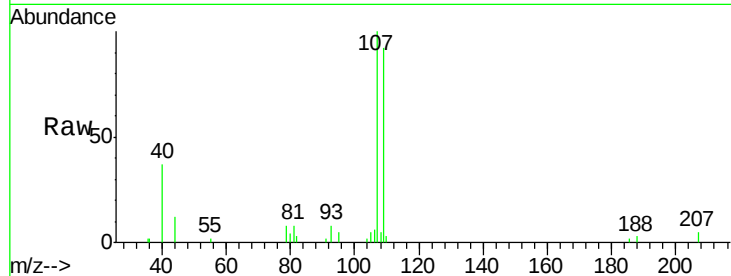
#61
 1,2-Dibromoethane
 Concen: 4.769 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion: 107 Resp: 14405
 Ion Ratio Lower Upper
 107 100
 109 97.7 75.4 113.0

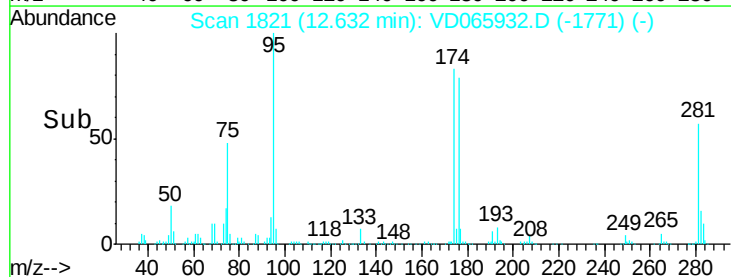
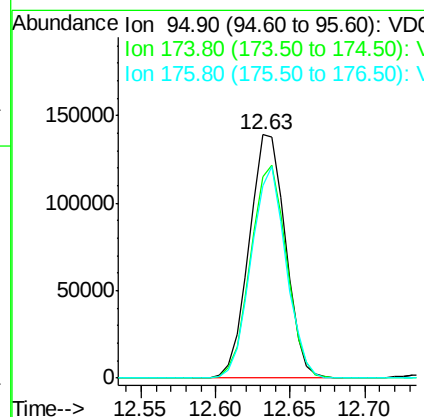
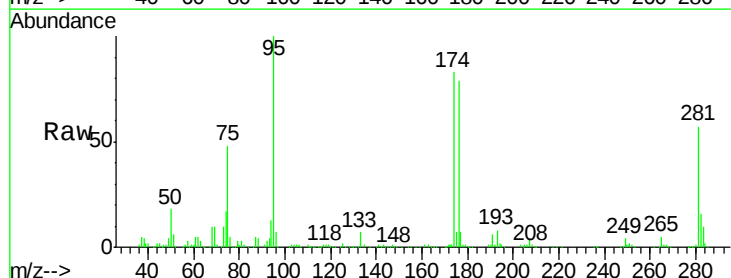
Manual Integrations
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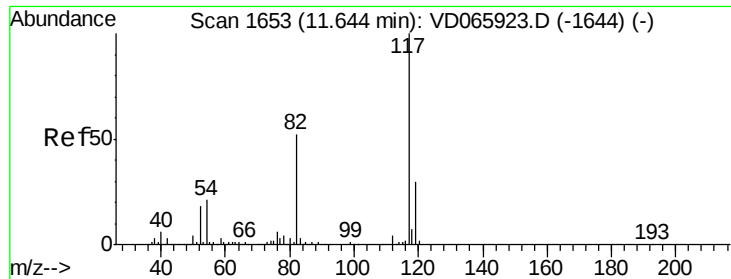
MMDadoda
 7/8/2020 12:20:01 PM



#62
 4-Bromofluorobenzene
 Concen: 48.616 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 95 Resp: 234361
 Ion Ratio Lower Upper
 95 100
 174 86.4 0.0 169.4
 176 83.4 0.0 164.0





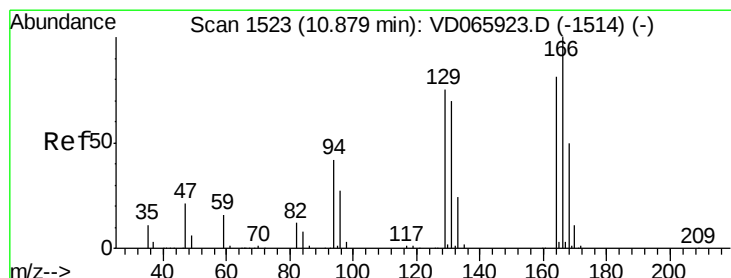
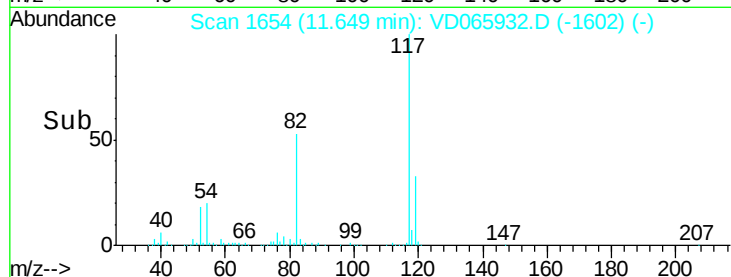
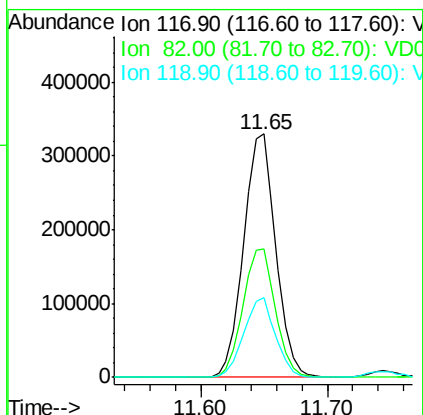
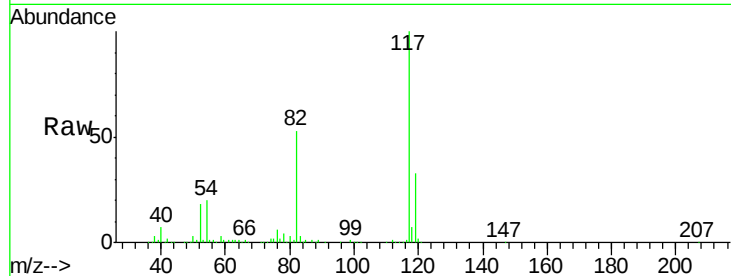
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	581134		
82	52.5		41.8	62.8
119	32.6		24.3	36.5

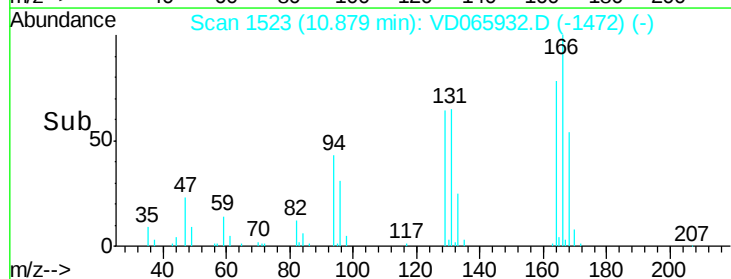
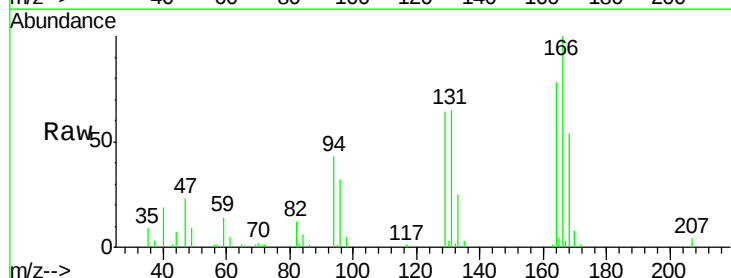
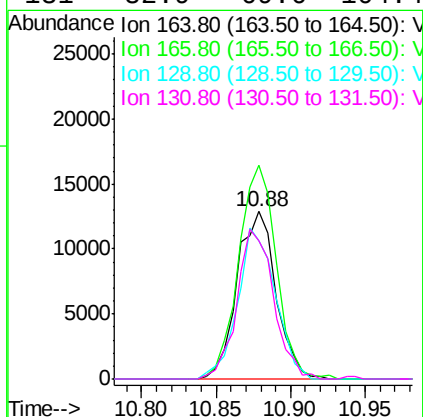
Manual Integrations
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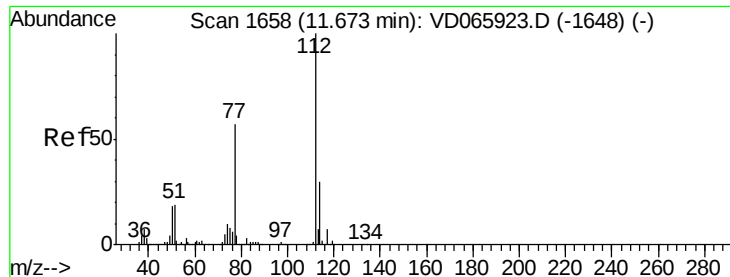
MMDadoda
7/8/2020 12:20:01 PM



#64
Tetrachloroethene
Concen: 5.522 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	23337		
166	127.7		99.0	148.4
129	82.3		73.9	110.9
131	82.9		69.6	104.4





#65

Chlorobenzene

Concen: 5.178 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:112 Resp: 60639

Ion Ratio Lower Upper

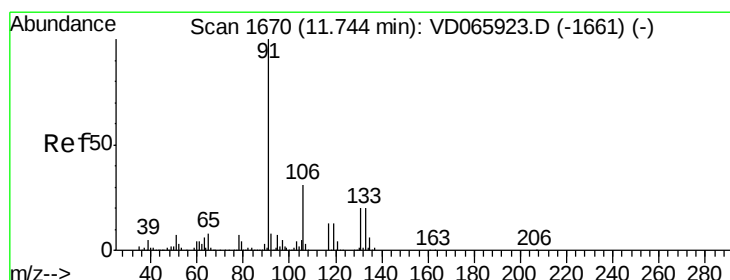
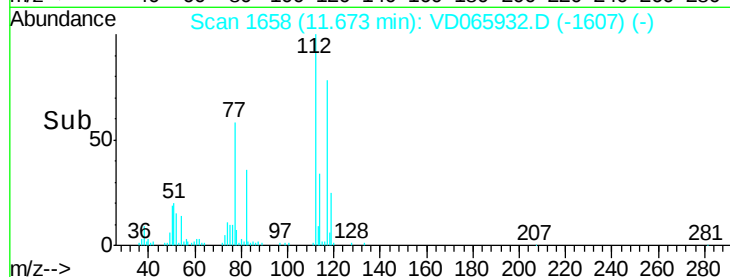
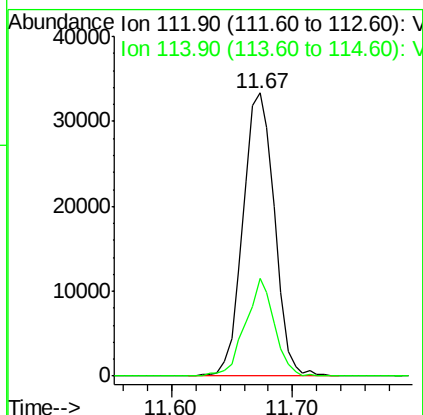
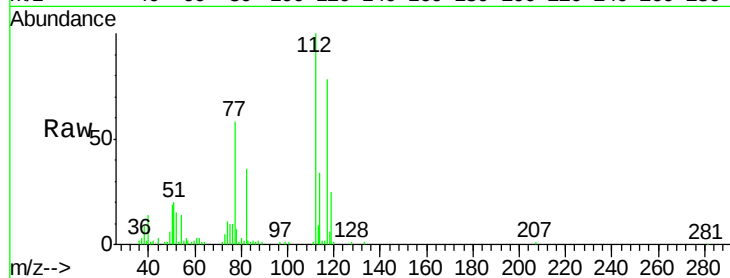
112 100

114 34.4 24.2 36.4

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 5.198 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

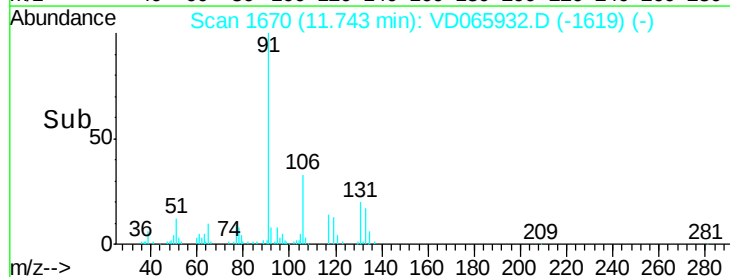
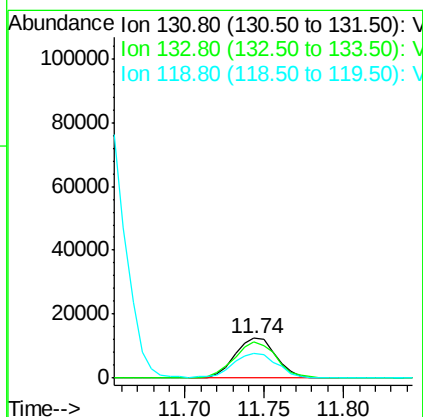
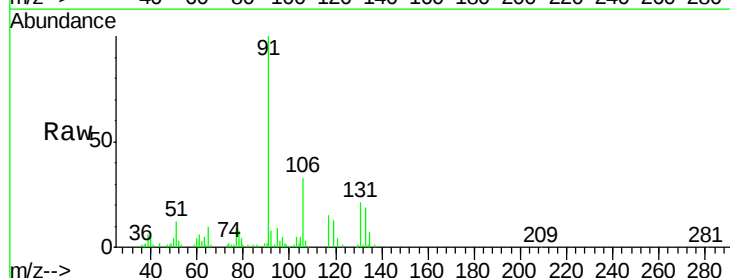
Tgt Ion:131 Resp: 22769

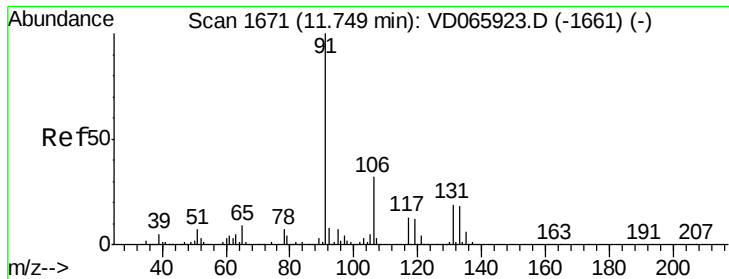
Ion Ratio Lower Upper

131 100

133 92.2 47.9 143.6

119 65.6 31.9 95.9





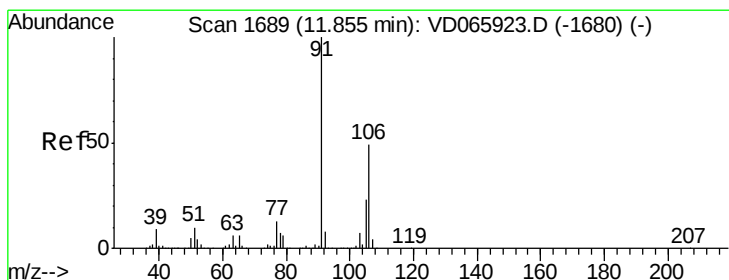
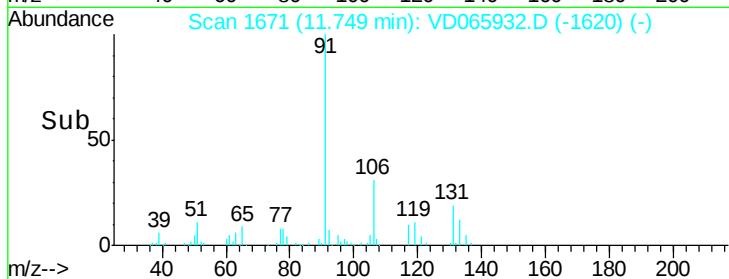
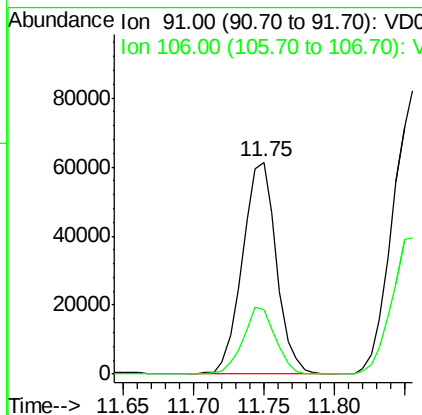
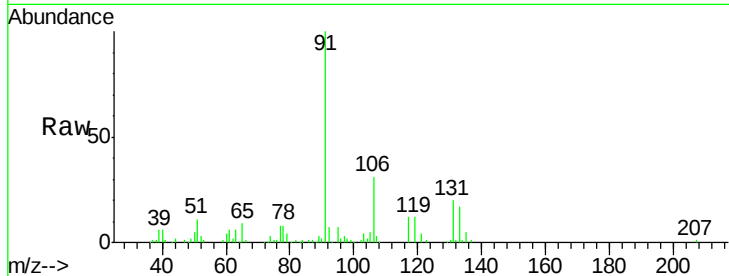
#67
Ethyl Benzene
Concen: 4.978 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion: 91 Resp: 103567
Ion Ratio Lower Upper
91 100
106 30.6 25.2 37.8

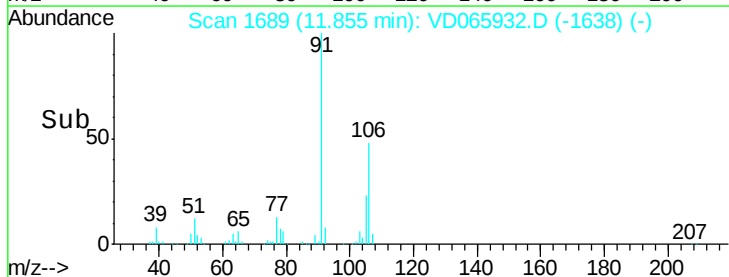
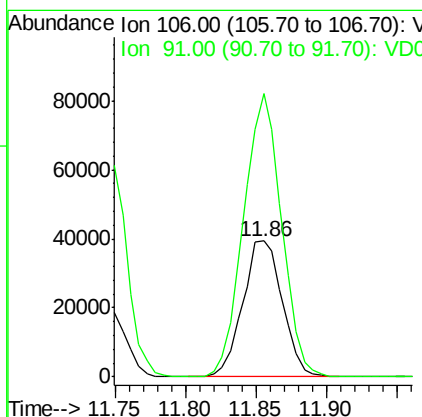
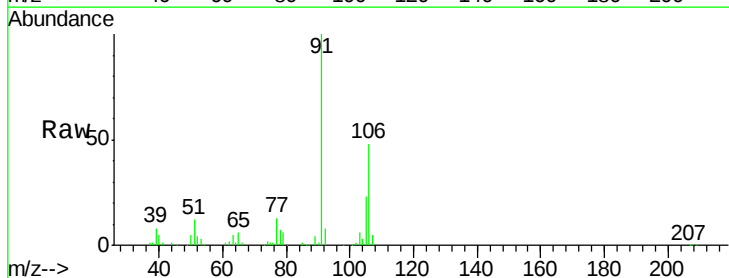
Manual Integrations
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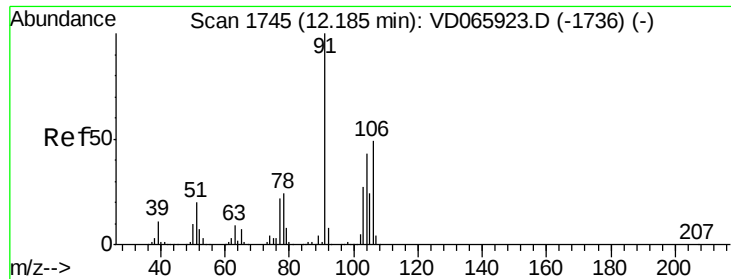
MMDadoda
7/8/2020 12:20:01 PM



#68
m/p-Xylenes
Concen: 9.817 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 106 Resp: 77593
Ion Ratio Lower Upper
106 100
91 199.3 158.2 237.2





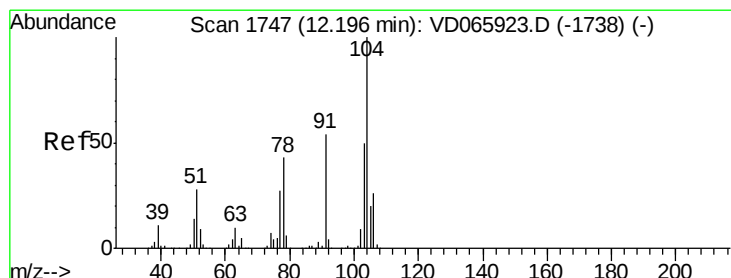
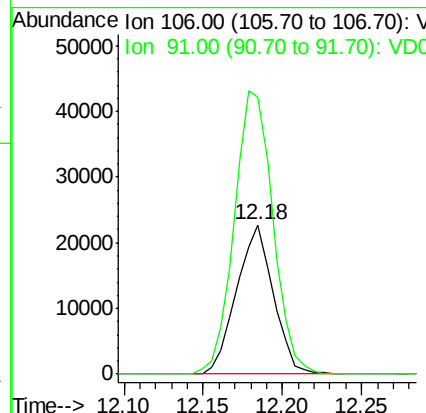
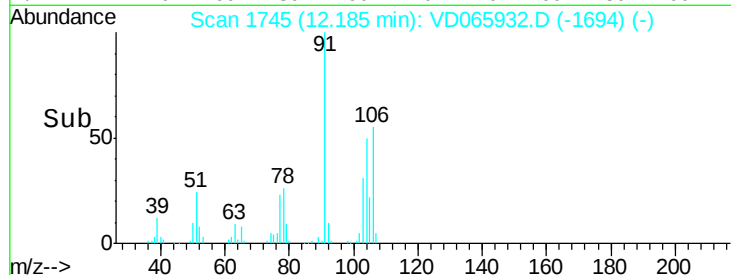
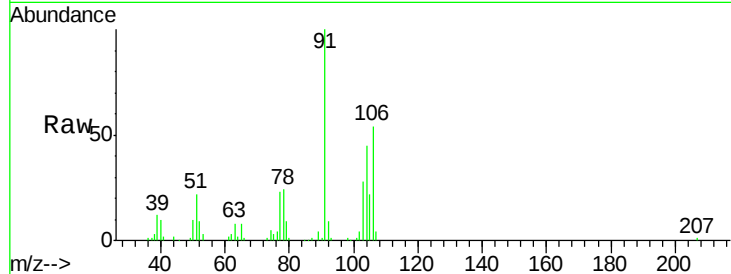
#69
o-Xylene
Concen: 5.065 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion:106 Resp: 36471
Ion Ratio Lower Upper
106 100
91 199.7 104.1 312.2

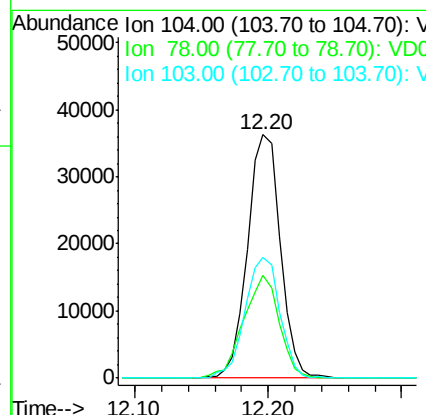
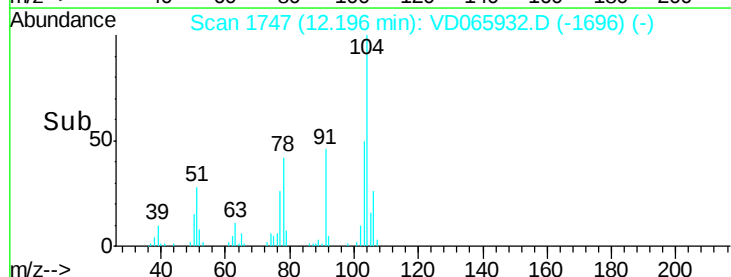
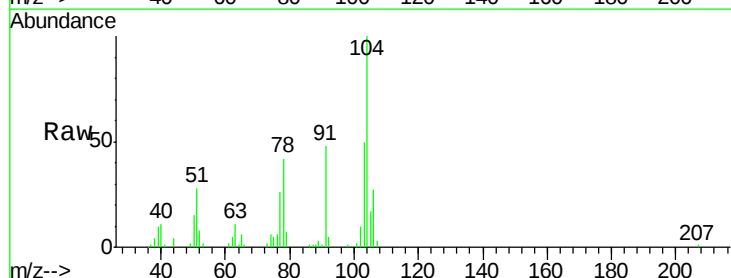
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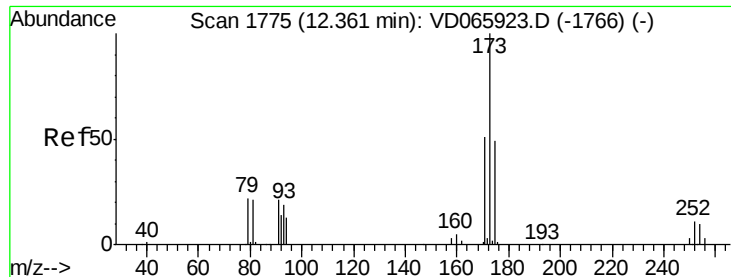
MMDadoda
7/8/2020 12:20:01 PM



#70
Styrene
Concen: 4.946 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion:104 Resp: 61483
Ion Ratio Lower Upper
104 100
78 45.9 38.8 58.2
103 52.7 43.6 65.4





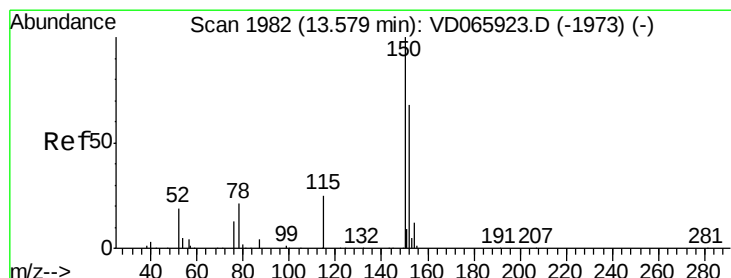
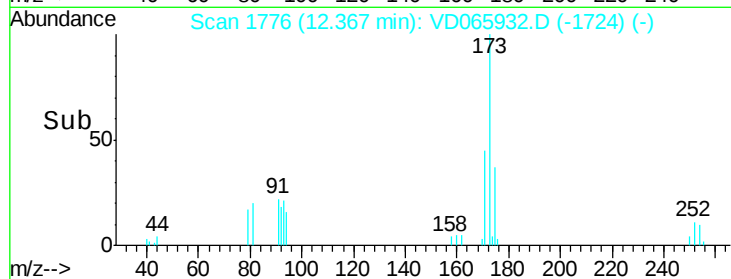
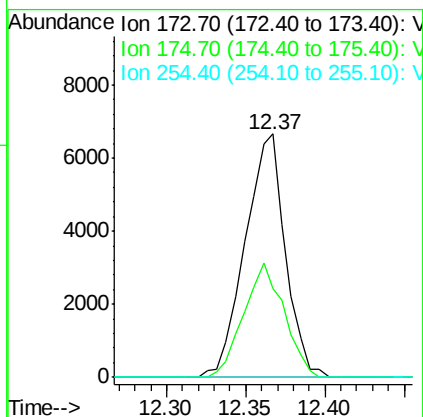
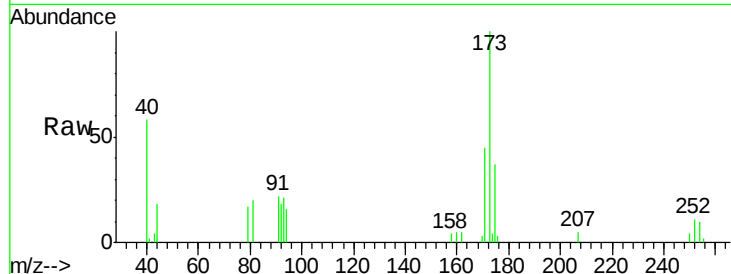
#71
Bromoform
Concen: 4.731 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.2	72.6
254	0.0	0.0	0.0

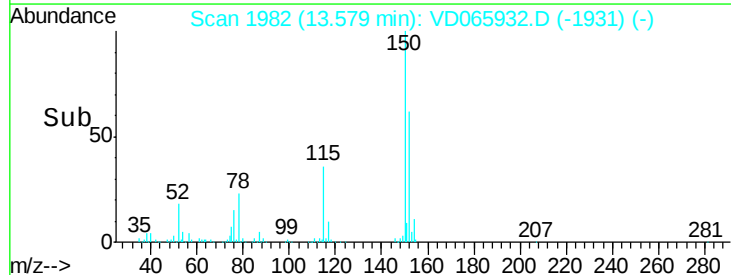
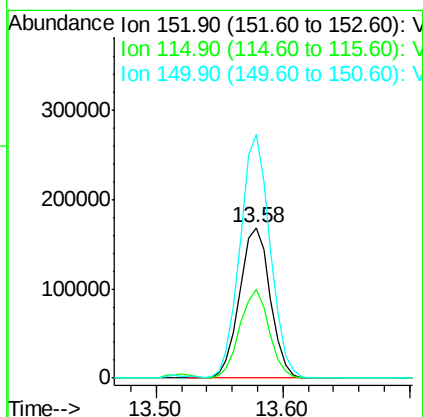
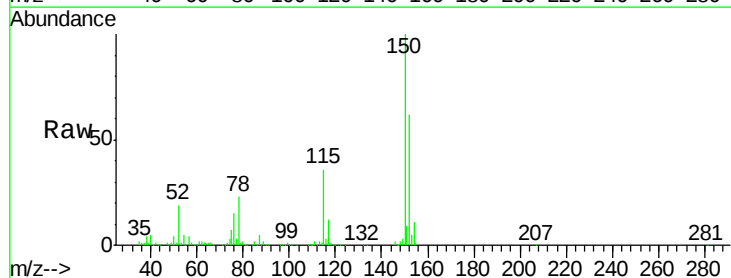
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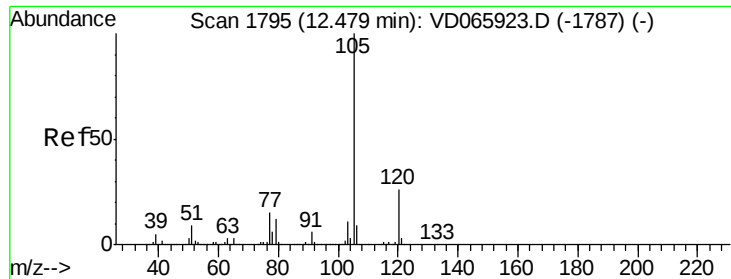
MMDadoda
7/8/2020 12:20:01 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	27.8	83.3
150	159.2	0.0	347.2





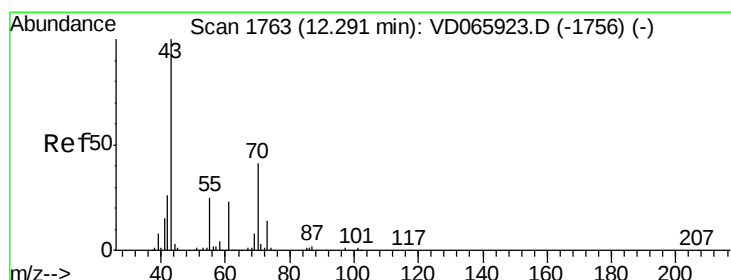
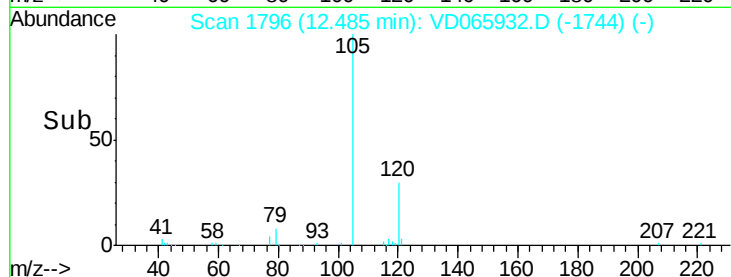
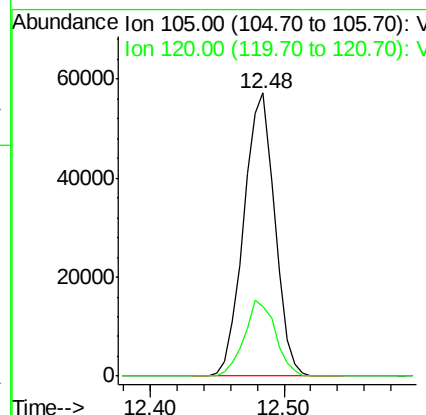
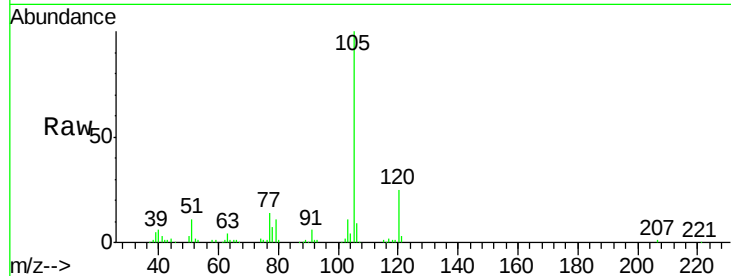
#73
Isopropylbenzene
Concen: 4.667 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.3	39.8

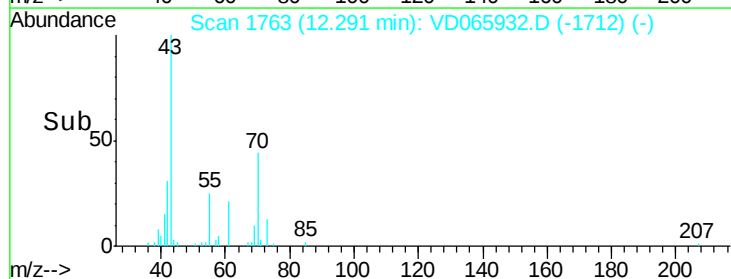
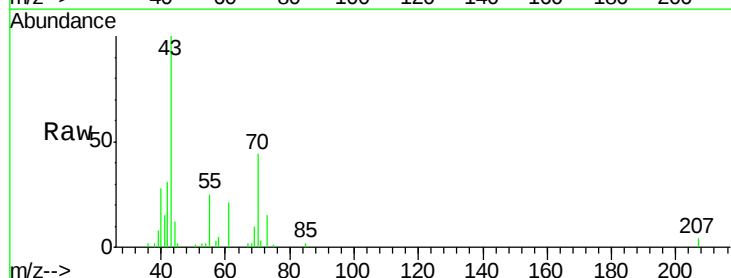
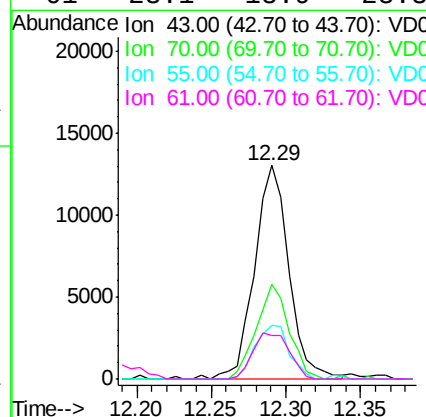
Manual Integrations
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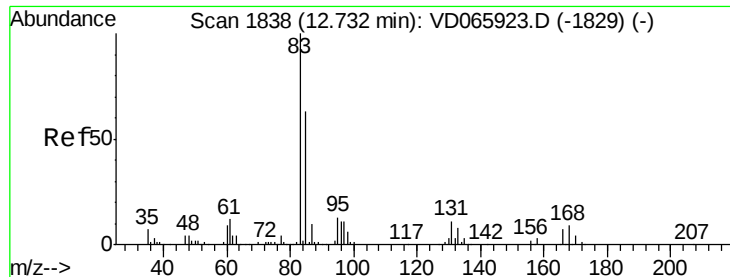
MMDadoda
7/8/2020 12:20:01 PM



#74
N-ethyl acetate
Concen: 4.669 ug/l
RT: 12.29 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.9	33.6	50.4
55	25.1	20.1	30.1
61	23.1	18.9	28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 5.016 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

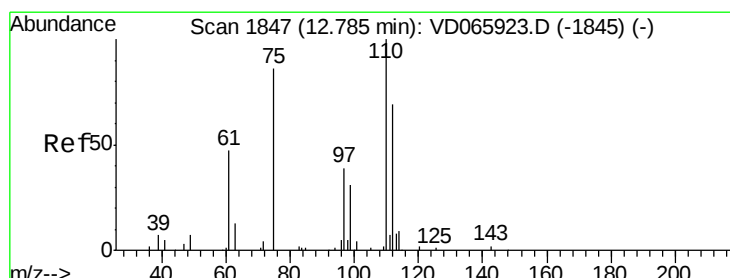
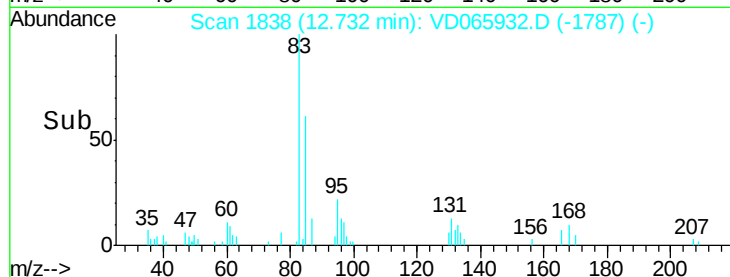
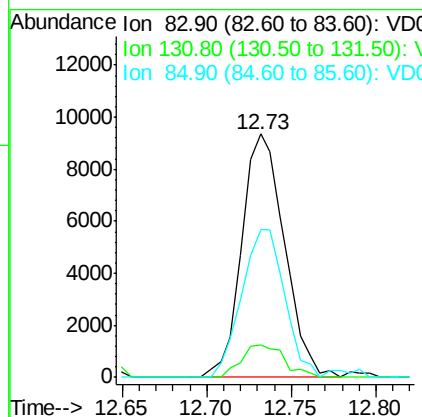
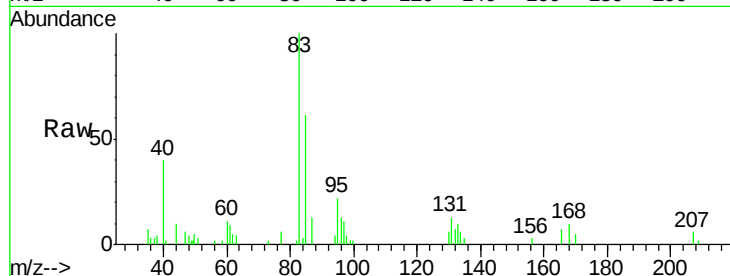
ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:	83	Resp:	16385
Ion Ratio	Lower	Upper	
83	100		
131	13.5	5.6	16.8
85	61.3	32.6	98.0

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#76

1,2,3-Trichloropropane

Concen: 3.738 ug/l m

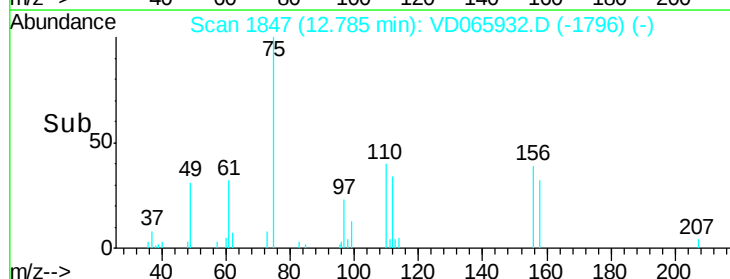
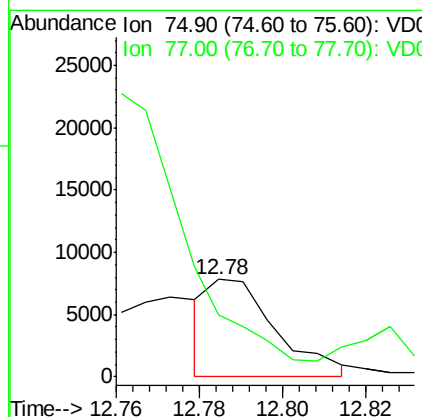
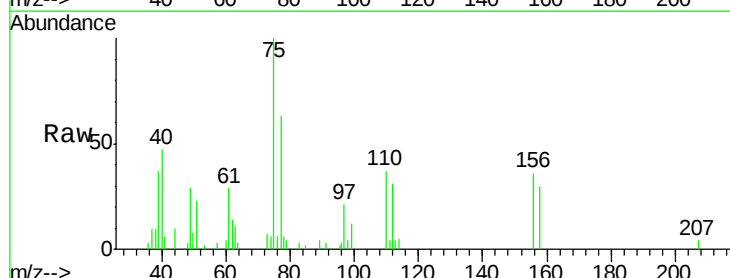
RT: 12.78 min Scan# 1847

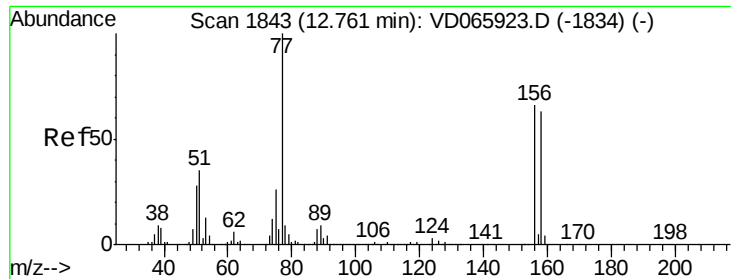
Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion:	75	Resp:	8840
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.183 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:156 Resp: 24731

Ion Ratio Lower Upper

156 100

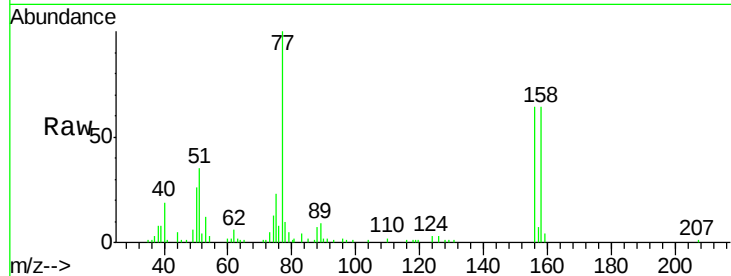
77 173.2 85.0 255.0

158 96.0 49.0 147.0

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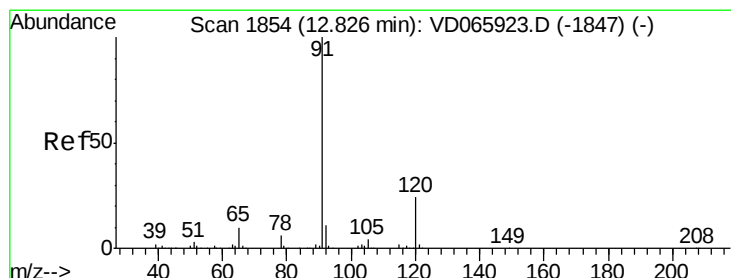
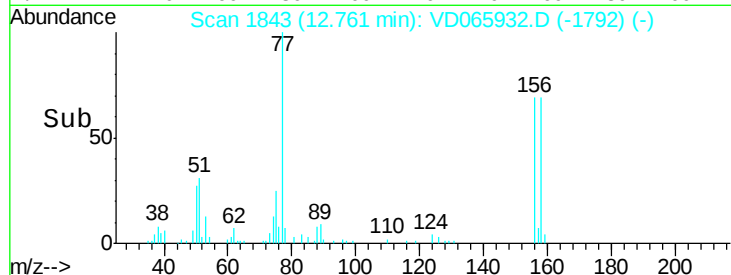
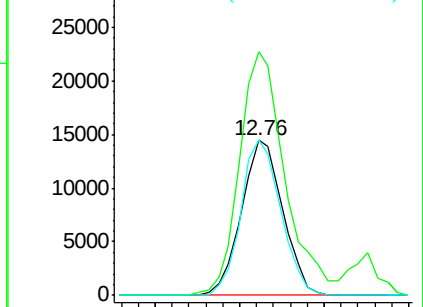
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.944 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD065932.D

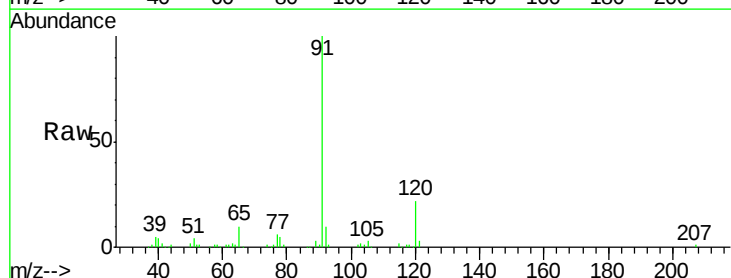
Acq: 07 Jul 2020 20:26

Tgt Ion: 91 Resp: 114031

Ion Ratio Lower Upper

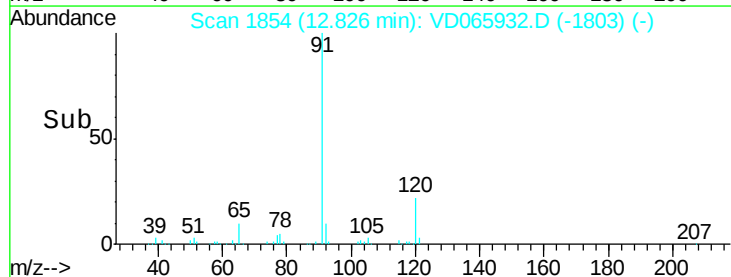
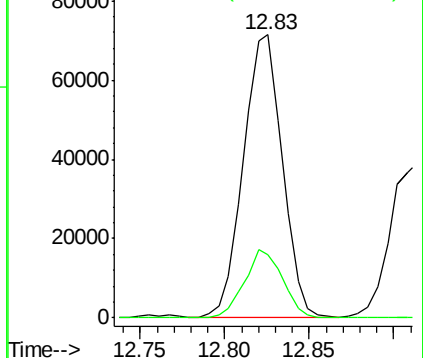
91 100

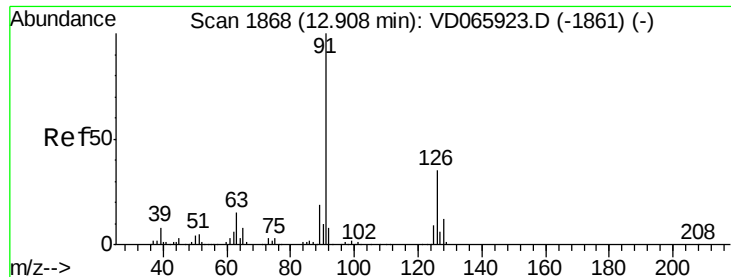
120 23.6 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.029 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion: 91 Resp: 65812

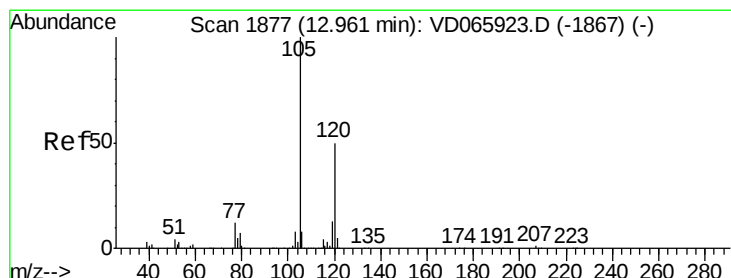
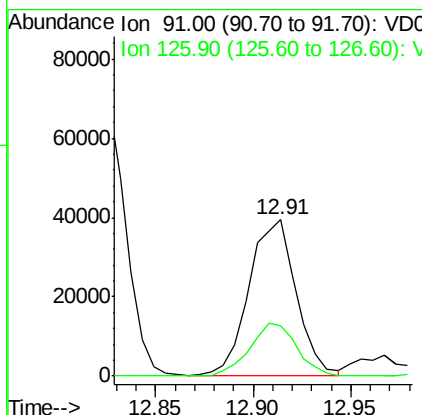
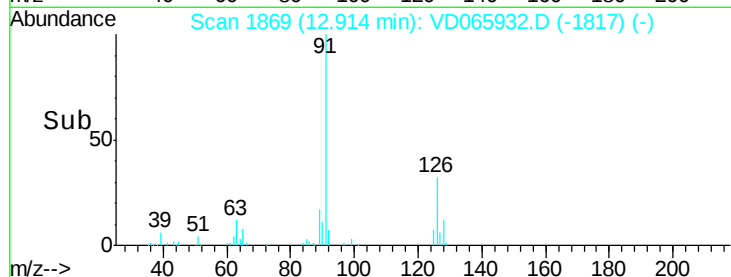
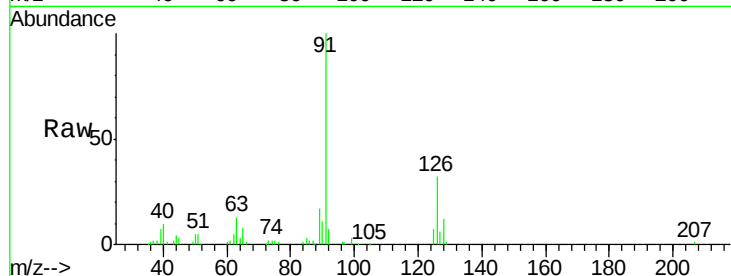
Ion Ratio Lower Upper

91 100

126 33.8 17.6 52.8

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#80

1,3,5-Trimethylbenzene

Concen: 4.969 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VD065932.D

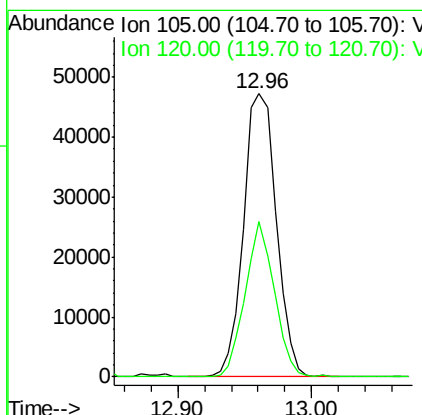
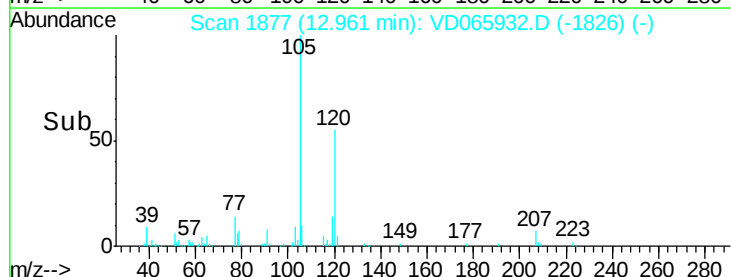
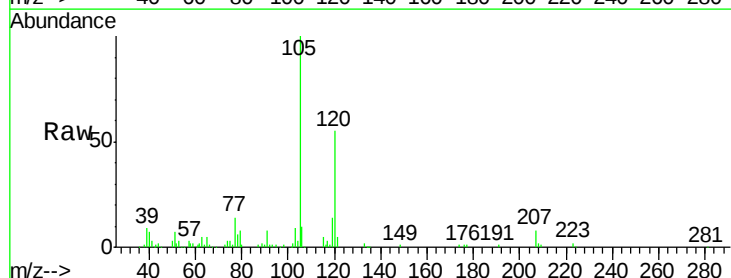
Acq: 07 Jul 2020 20:26

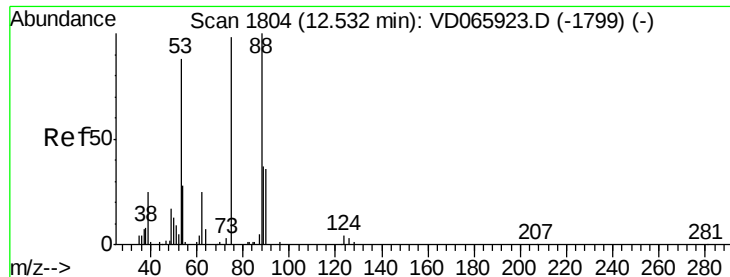
Tgt Ion: 105 Resp: 79965

Ion Ratio Lower Upper

105 100

120 48.8 25.2 75.6





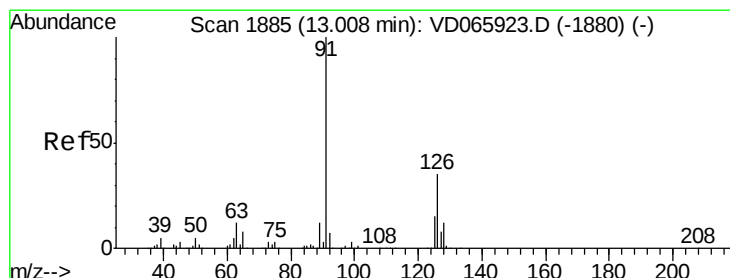
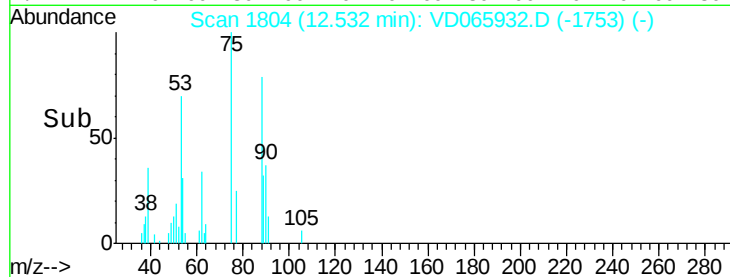
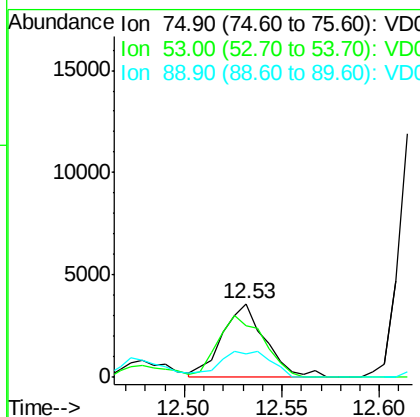
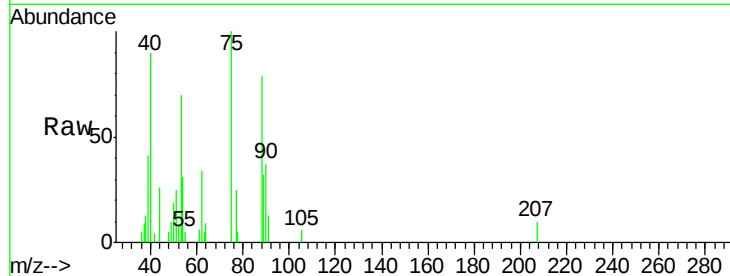
#81
trans-1,4-Dichloro-2-butene
Concen: 5.002 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.7	75.8	113.8
89	41.4	37.5	56.3

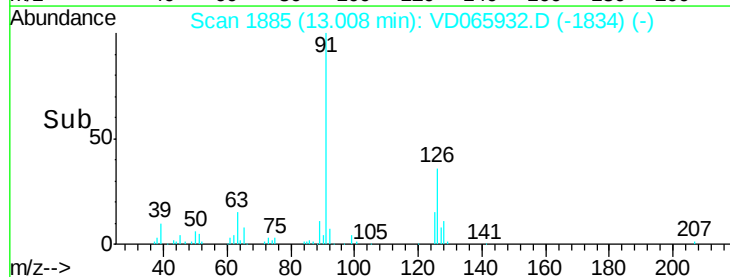
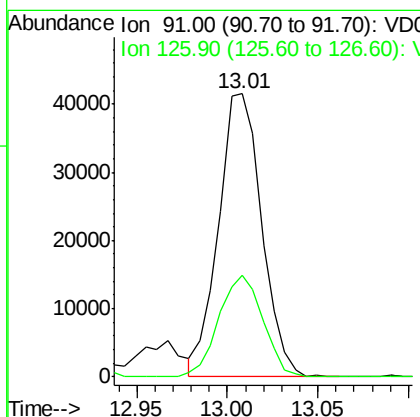
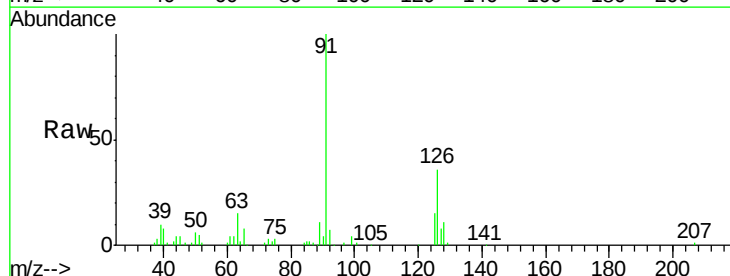
Manual Integrations
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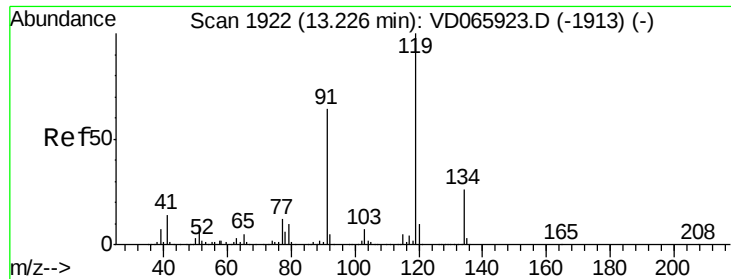
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#82
4-Chlorotoluene
Concen: 4.998 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.5	17.3	51.7





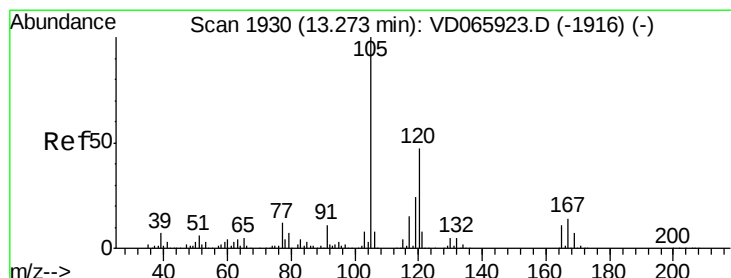
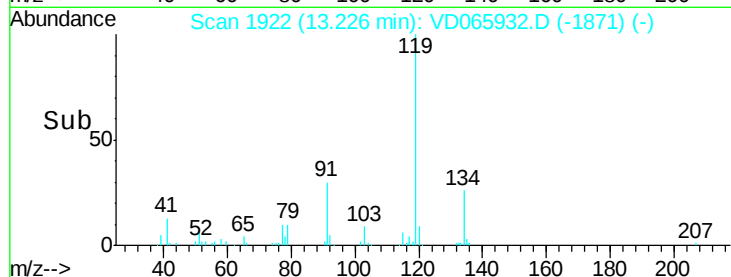
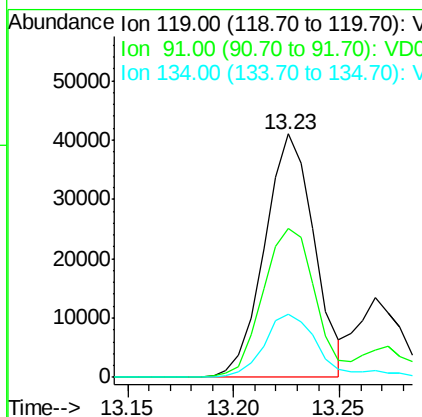
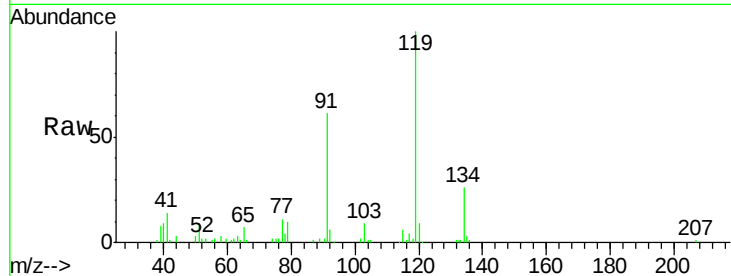
#83
tert-Butylbenzene
Concen: 4.891 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.3	32.4	97.2
134	29.0	14.1	42.4

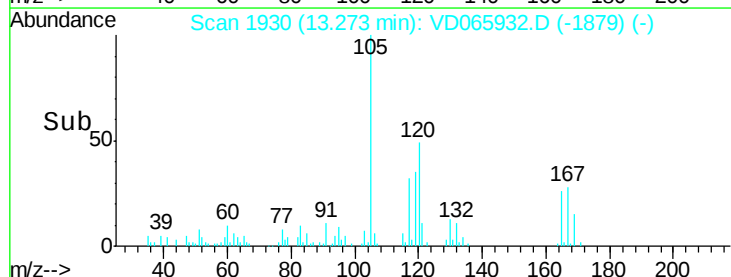
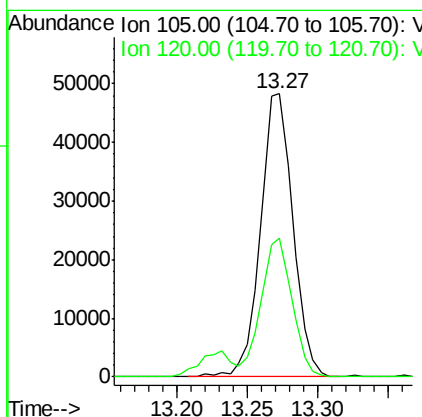
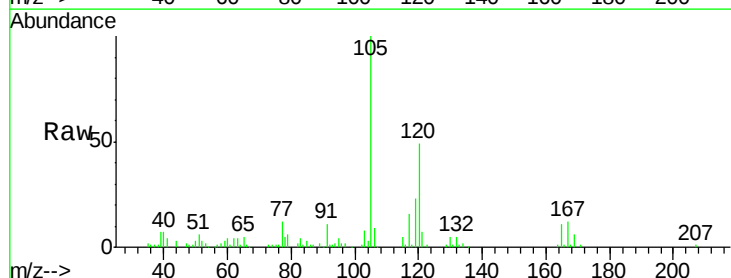
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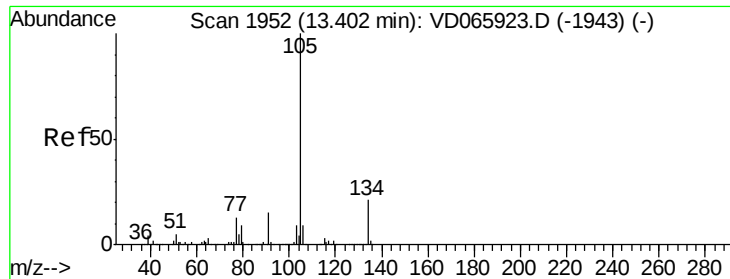
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#84
1,2,4-Trimethylbenzene
Concen: 4.887 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.2	69.5





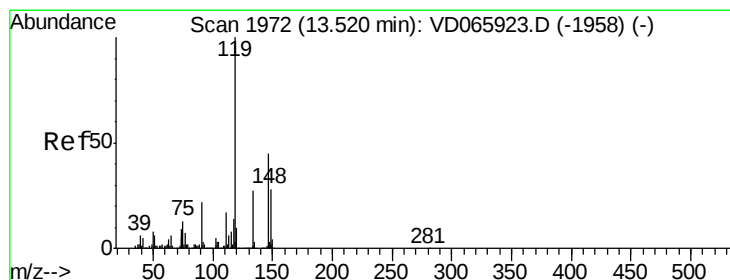
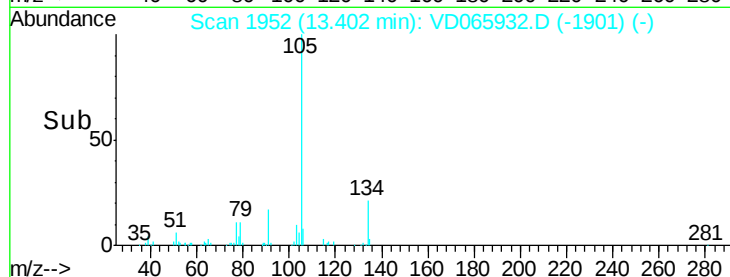
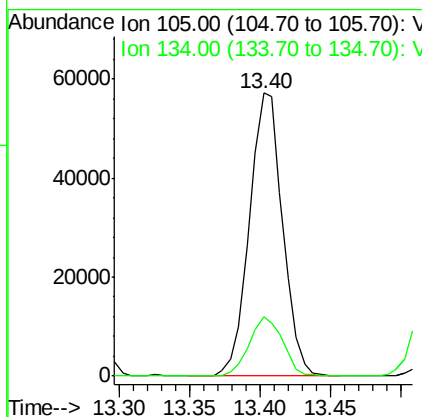
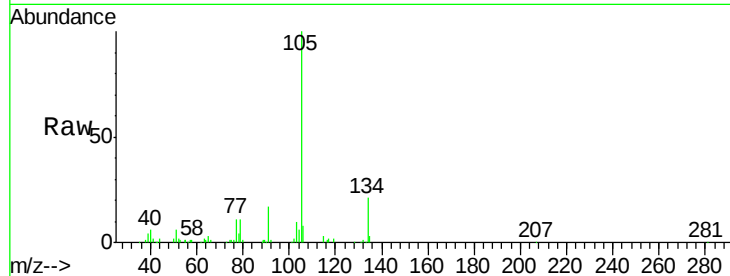
#85
 sec-Butylbenzene
 Concen: 4.868 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.2	10.4	31.1

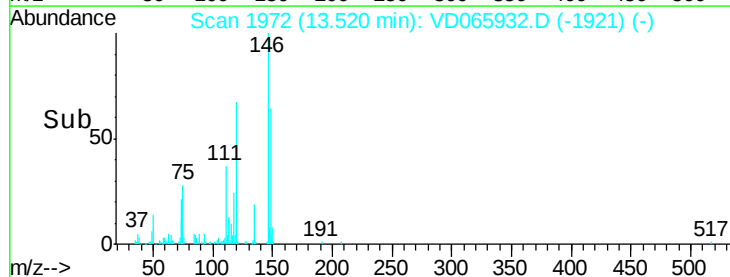
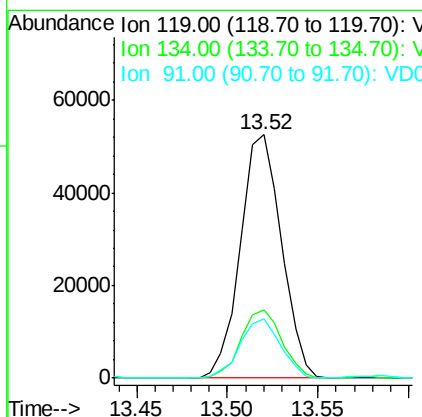
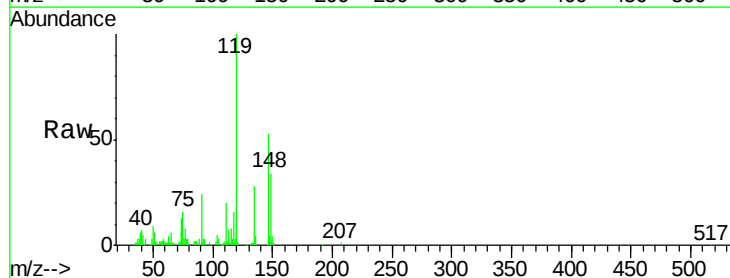
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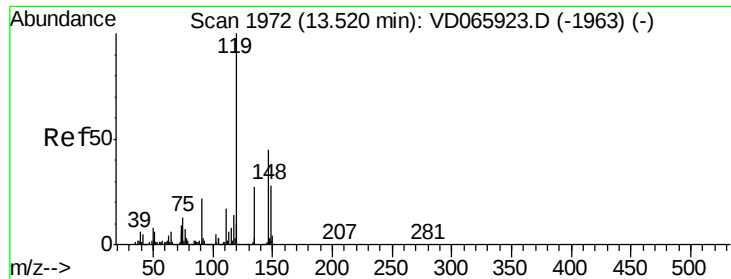
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#86
 p-Isopropyltoluene
 Concen: 4.677 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.9	13.4	40.1
91	24.1	11.3	33.8





#87

1,3-Dichlorobenzene

Concen: 5.131 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

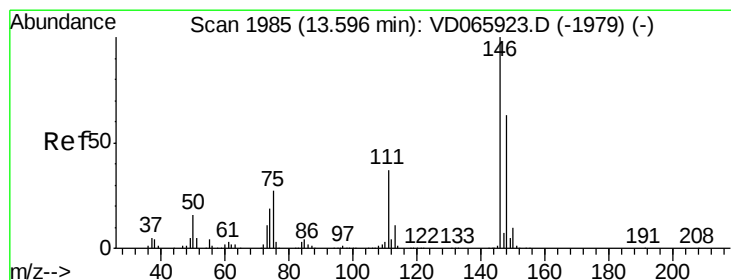
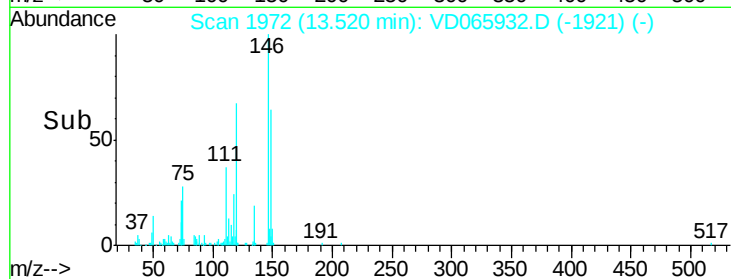
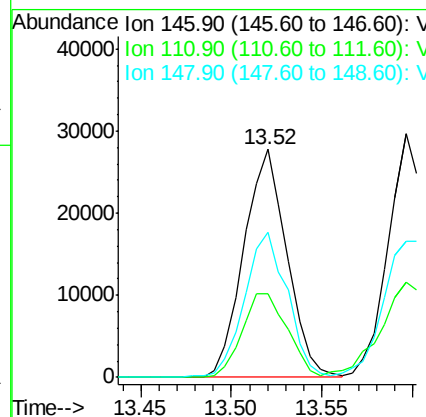
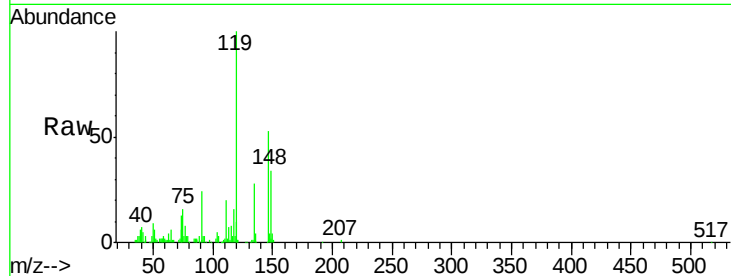
Instrument :
MSVOA_D

ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.3	57.8
148	63.2	32.0	96.0

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#88

1,4-Dichlorobenzene

Concen: 5.266 ug/l

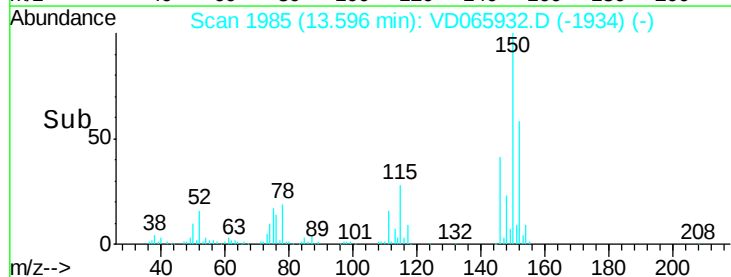
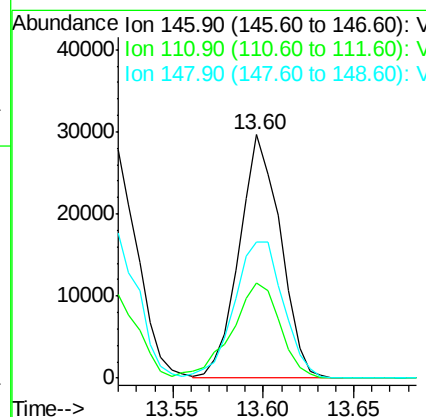
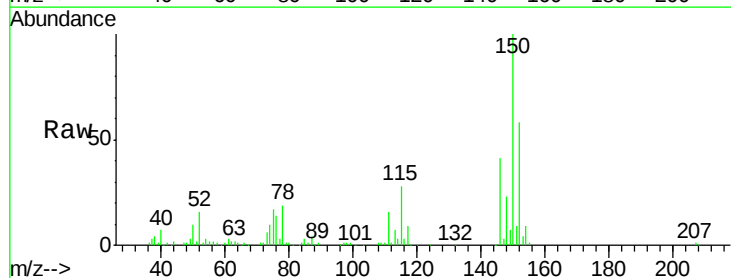
RT: 13.60 min Scan# 1985

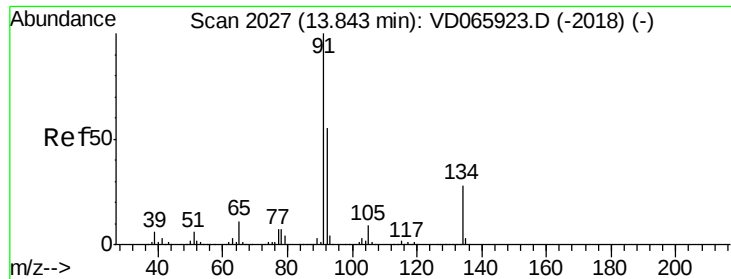
Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.8	18.9	56.7
148	66.8	32.1	96.3





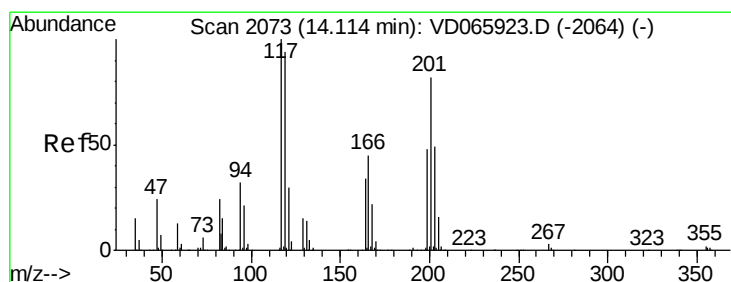
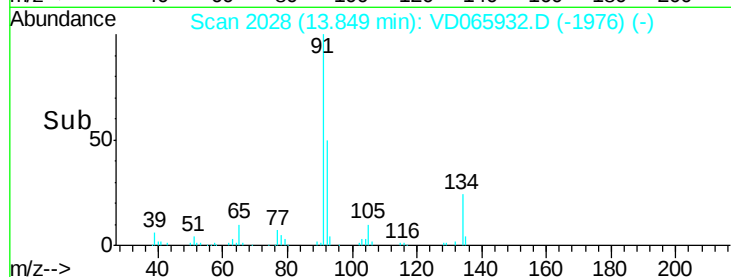
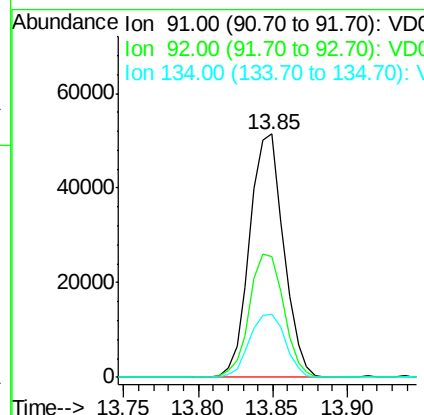
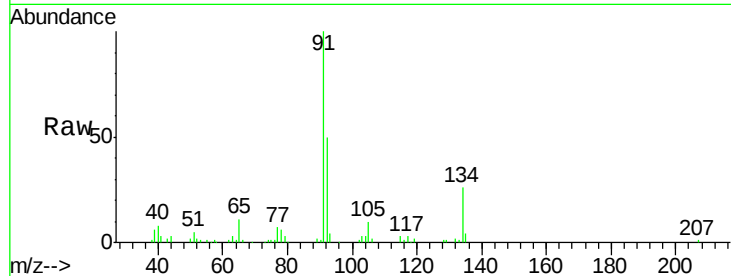
#89
n-Butylbenzene
Concen: 4.846 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	27.2	81.6
134	27.3	13.8	41.3

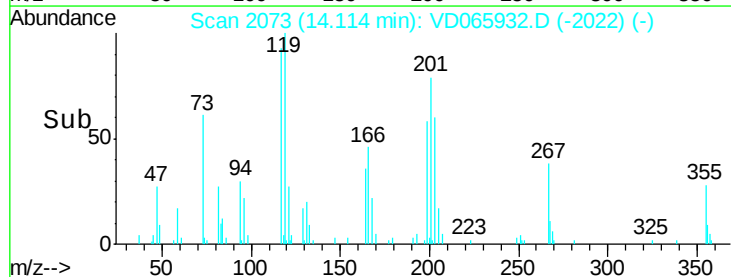
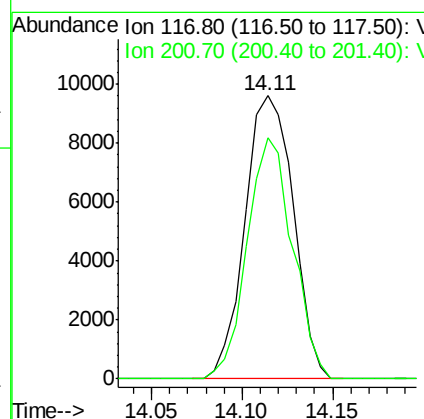
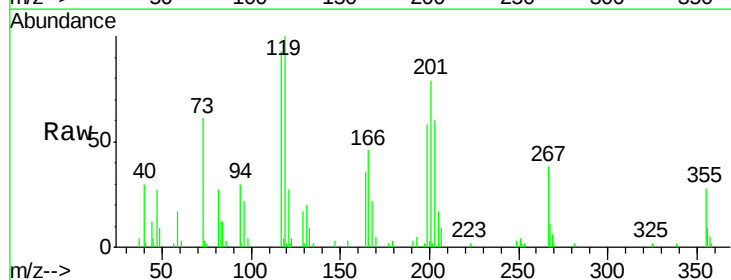
Manual Integrations
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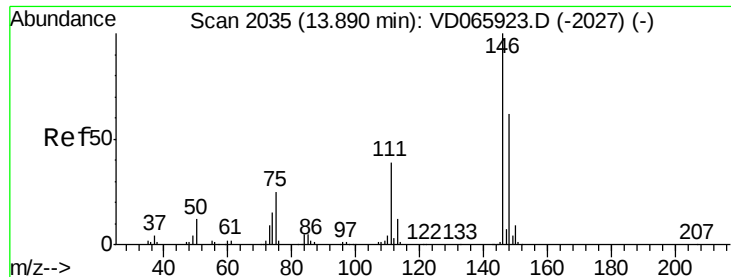
MMDadoda
7/8/2020 12:20:01 PM



#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.2	40.0	120.0





#91

1,2-Dichlorobenzene

Concen: 5.003 ug/l

RT: 13.90 min Scan# 2036

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

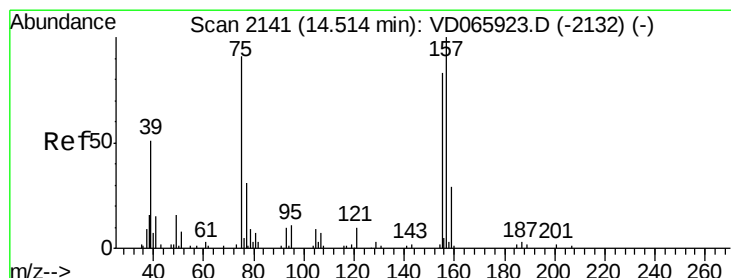
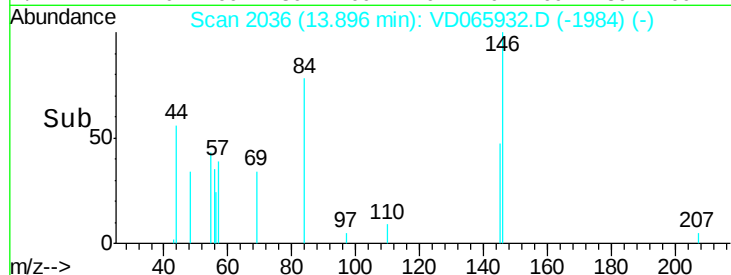
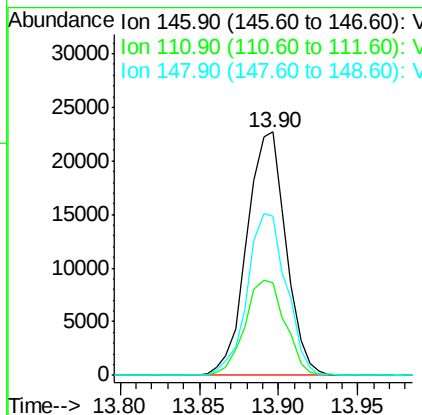
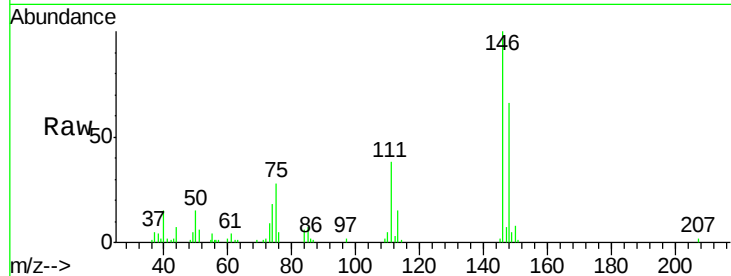
ClientSampleId :

LOQ-SOIL-02-QT3-2020

Tot Ion:	146	Resp:	39044
Ion Ratio	Lower	Upper	
146	100		
111	40.1	19.7	59.0
148	66.1	32.5	97.5

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#92

1,2-Dibromo-3-Chloropropane

Concen: 4.940 ug/l

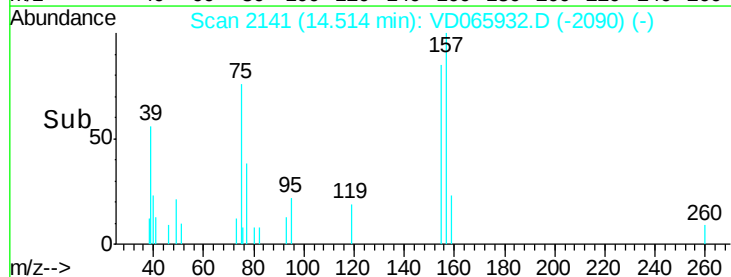
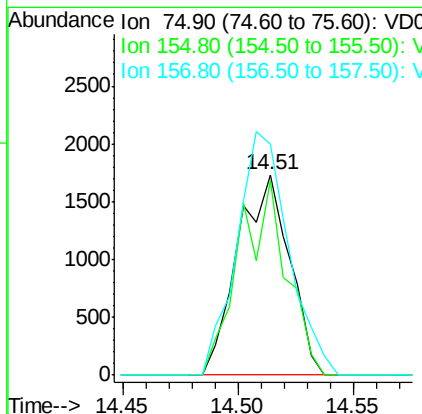
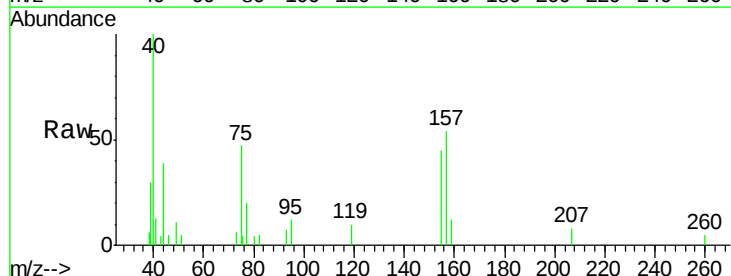
RT: 14.51 min Scan# 2141

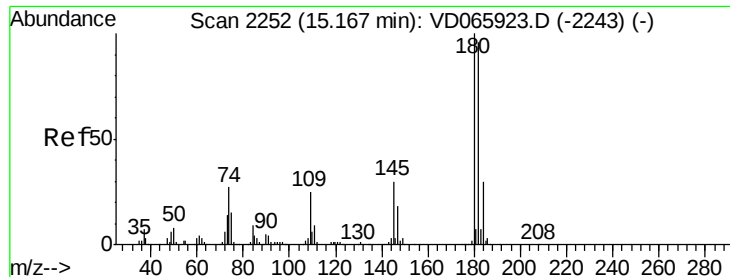
Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion:	75	Resp:	2698
Ion Ratio	Lower	Upper	
75	100		
155	89.5	45.3	135.8
157	122.2	56.9	170.6





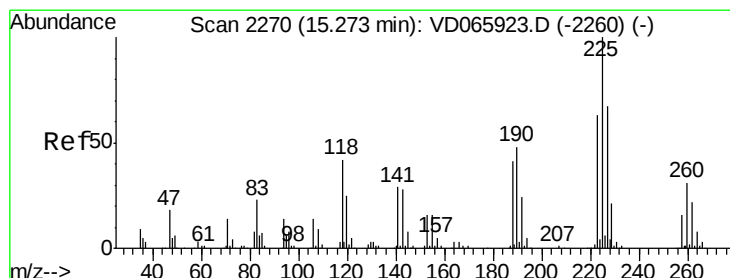
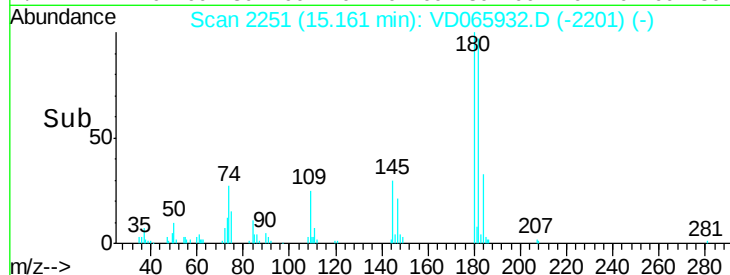
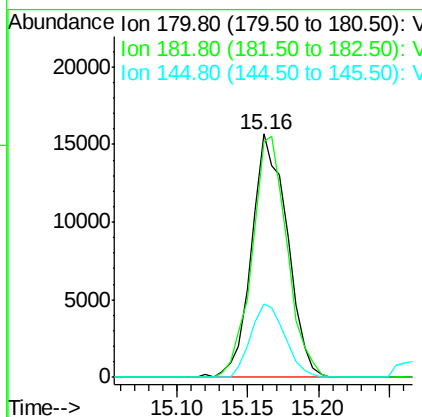
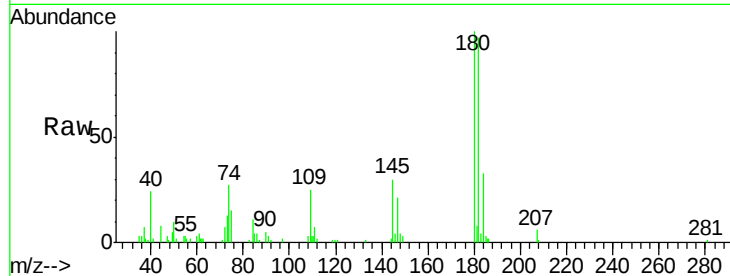
#93
 1,2,4-Trichlorobenzene
 Concen: 4.989 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	48.5	145.6
145	28.8	15.0	45.1

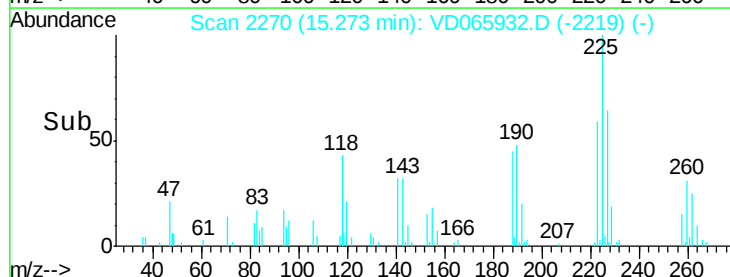
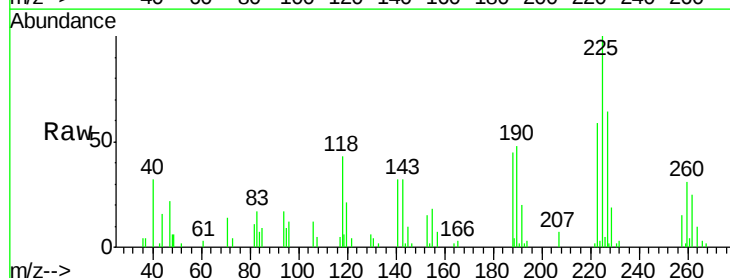
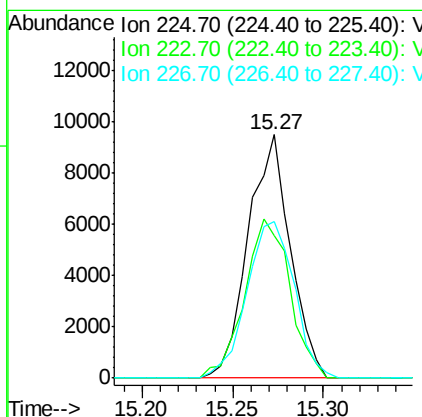
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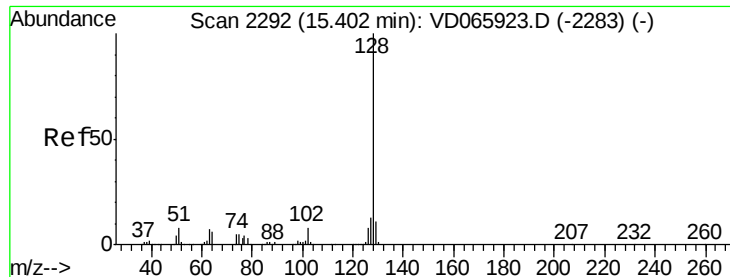
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#94
 Hexachlorobutadiene
 Concen: 4.565 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	69.9	31.1	93.2
227	72.1	31.6	95.0





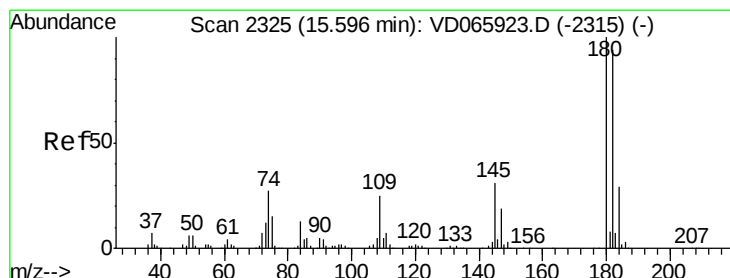
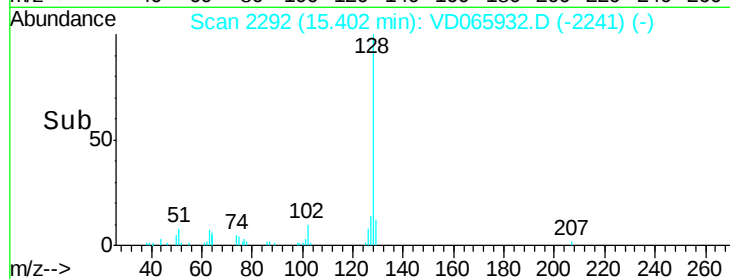
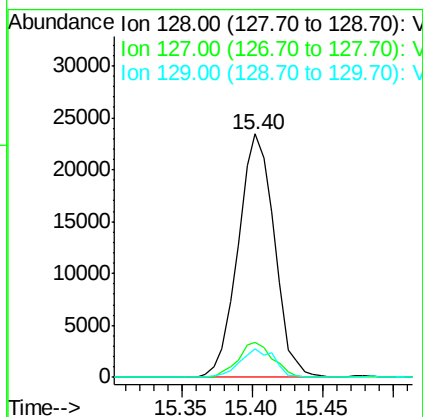
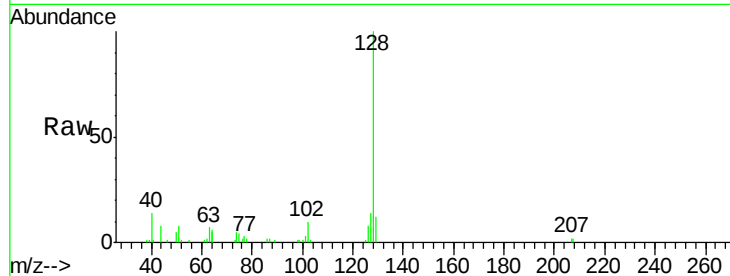
#95
Naphthalene
Concen: 4.515 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.8	16.2
129	11.4	8.9	13.3

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 4.743 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	103.8	47.6	142.8
145	30.0	16.1	48.2

