

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100719\
 Data File : VD063897.D
 Acq On : 07 Oct 2019 13:39
 Operator : VA/SY
 Sample : K5111-03 2.5PPB MDL
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Manual Integrations
 APPROVED

MMDadoda
 10/10/2019 1:46:10 PM

Quant Time: Oct 08 17:35:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	174120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	280766	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	274926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	136035	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	93779	55.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.64%	
35) Dibromofluoromethane	7.92	113	90550	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	
50) Toluene-d8	10.34	98	377618	54.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.44%	
62) 4-Bromofluorobenzene	12.63	95	121869	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	3633	2.942	ug/l #	33
3) Chloromethane	2.21	50	11129	2.943	ug/l	97
4) Vinyl Chloride	2.34	62	11893	2.980	ug/l	99
5) Bromomethane	2.77	94	8514	3.318	ug/l	88
6) Chloroethane	2.93	64	7739	2.932	ug/l	94
7) Trichlorofluoromethane	3.27	101	13902	2.635	ug/l	84
8) Diethyl Ether	3.70	74	3022m	3.568	ug/l	
9) 1,1,2-Trichlorotrifluoroet	4.09	101	4007	2.743	ug/l	95
10) Methyl Iodide	4.29	142	4573	2.272	ug/l #	48
11) Tert butyl alcohol	5.24	59	333	2.769	ug/l #	70
12) 1,1-Dichloroethene	4.06	96	4603	3.154	ug/l #	60
13) Acrolein	3.93	56	2264	14.953	ug/l	92
14) Allyl chloride	4.71	41	7305	3.011	ug/l #	82
15) Acrylonitrile	5.43	53	5154	13.803	ug/l #	66
16) Acetone	4.17	43	7713	17.476	ug/l	91
17) Carbon Disulfide	4.39	76	13124	2.474	ug/l	98
18) Methyl Acetate	4.73	43	2886	3.343	ug/l #	62
19) Methyl tert-butyl Ether	5.48	73	10533	2.787	ug/l	93
20) Methylene Chloride	4.97	84	12477	5.508	ug/l	88
21) trans-1,2-Dichloroethene	5.48	96	4960	2.730	ug/l #	61
22) Diisopropyl ether	6.36	45	13091	2.642	ug/l #	85
23) Vinyl Acetate	6.31	43	37622	12.764	ug/l #	89
24) 1,1-Dichloroethane	6.26	63	8791	2.880	ug/l #	87
25) 2-Butanone	7.22	43	8331	15.928	ug/l	93
26) 2,2-Dichloropropane	7.21	77	9348	3.386	ug/l	92
27) cis-1,2-Dichloroethene	7.21	96	5366	2.610	ug/l	83
28) Bromochloromethane	7.55	49	3791	3.315	ug/l #	99
29) Tetrahydrofuran	7.58	42	4344	14.229	ug/l #	78
30) Chloroform	7.71	83	9295	2.804	ug/l	93
31) Cyclohexane	7.98	56	10971	3.834	ug/l #	55
32) 1,1,1-Trichloroethane	7.90	97	6928	2.436	ug/l #	85
36) 1,1-Dichloropropene	8.11	75	7297	2.842	ug/l	96
37) Ethyl Acetate	7.30	43	3695	3.172	ug/l #	87
38) Carbon Tetrachloride	8.08	117	6469	2.494	ug/l #	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	8199	2.598	ug/l	97
40) Benzene	8.34	78	19741	2.683	ug/l #	89
41) Methacrylonitrile	7.52	41	1335	2.243	ug/l #	50
42) 1,2-Dichloroethane	8.43	62	5683	2.671	ug/l	100
43) Isopropyl Acetate	8.46	43	7018	3.260	ug/l #	82
44) Trichloroethene	9.11	130	6031	2.843	ug/l	77
45) 1,2-Dichloropropane	9.38	63	4647	2.581	ug/l #	79
46) Dibromomethane	9.48	93	3044	2.968	ug/l	94
47) Bromodichloromethane	9.67	83	6804	2.577	ug/l #	91
48) Methyl methacrylate	9.46	41	3511	3.404	ug/l	90
49) 1,4-Dioxane	9.47	88	874	62.438	ug/l #	87
51) 4-Methyl-2-Pentanone	10.23	43	16417	14.704	ug/l	97
52) Toluene	10.41	92	12889	2.552	ug/l	100
53) t-1,3-Dichloropropene	10.62	75	5845	2.269	ug/l #	89
54) cis-1,3-Dichloropropene	10.08	75	6954	2.345	ug/l #	86
55) 1,1,2-Trichloroethane	10.81	97	3743	2.585	ug/l	85
56) Ethyl methacrylate	10.66	69	3956	2.157	ug/l #	79
57) 1,3-Dichloropropane	10.94	76	6104	2.464	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.95	63	9606	12.188	ug/l	96
59) 2-Hexanone	10.99	43	10500	13.000	ug/l	99
60) Dibromochloromethane	11.14	129	4628	2.455	ug/l	89
61) 1,2-Dibromoethane	11.25	107	4223	3.008	ug/l	85
64) Tetrachloroethene	10.88	164	5656	3.014	ug/l #	81
65) Chlorobenzene	11.67	112	15624	2.830	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	4541	2.232	ug/l	86
67) Ethyl Benzene	11.74	91	24617	2.473	ug/l	98
68) m/p-Xylenes	11.86	106	18366	4.779	ug/l	93
69) o-Xylene	12.18	106	8545	2.322	ug/l	95
70) Styrene	12.19	104	13656	2.192	ug/l	93
71) Bromoform	12.36	173	2712	2.484	ug/l #	88
73) Isopropylbenzene	12.48	105	22724	2.485	ug/l	93
74) N-amyl acetate	12.29	43	5520	2.804	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.73	83	4663	2.930	ug/l	99
76) 1,2,3-Trichloropropane	12.78	75	1529m	1.678	ug/l	
77) Bromobenzene	12.77	156	5638	2.475	ug/l	94
78) n-propylbenzene	12.81	91	27356	2.548	ug/l	97
79) 2-Chlorotoluene	12.91	91	14853	2.509	ug/l	96
80) 1,3,5-Trimethylbenzene	12.96	105	19246	2.523	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.53	75	1740m	3.379	ug/l	
82) 4-Chlorotoluene	13.01	91	16143	2.571	ug/l	96
83) tert-Butylbenzene	13.22	119	15170	2.234	ug/l	83
84) 1,2,4-Trimethylbenzene	13.27	105	18759	2.385	ug/l	98
85) sec-Butylbenzene	13.40	105	23445	2.557	ug/l	95
86) p-Isopropyltoluene	13.51	119	19261	2.220	ug/l	93
87) 1,3-Dichlorobenzene	13.51	146	10687	2.374	ug/l	88
88) 1,4-Dichlorobenzene	13.60	146	12666	2.852	ug/l	93
89) n-Butylbenzene	13.84	91	19963	2.472	ug/l	97
90) Hexachloroethane	14.10	117	4542	2.910	ug/l	77
91) 1,2-Dichlorobenzene	13.89	146	9904	2.553	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.50	75	1023	3.716	ug/l #	31

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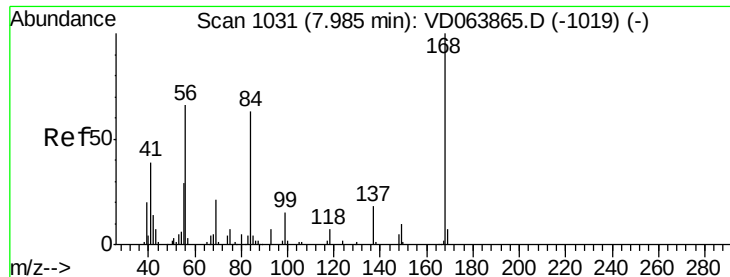
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	7437	2.484	ug/l	89
94) Hexachlorobutadiene	15.27	225	3852	2.332	ug/l	90
95) Naphthalene	15.40	128	12414	2.467	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.60	180	6216	2.407	ug/l	86

(#) = 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. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:168 Resp: 174120

Ion Ratio Lower Upper

168 100

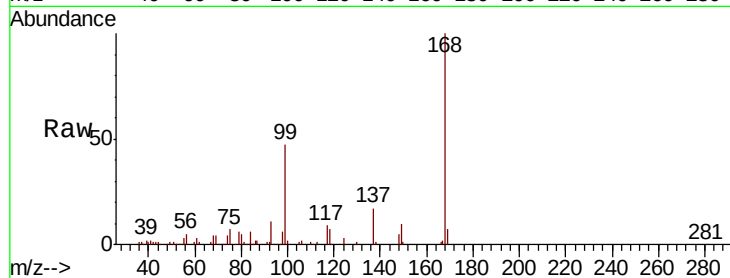
99 46.3 43.0 64.4

Manual Integrations

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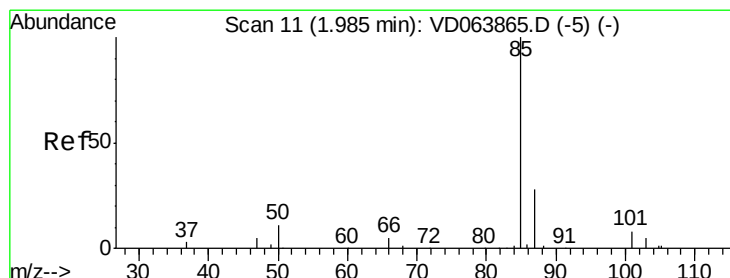
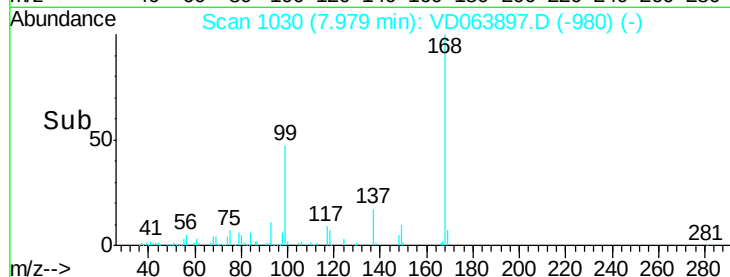
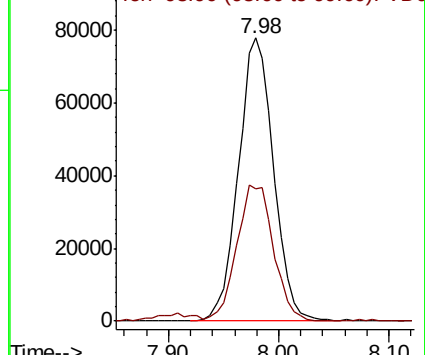
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 2.942 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD063897.D

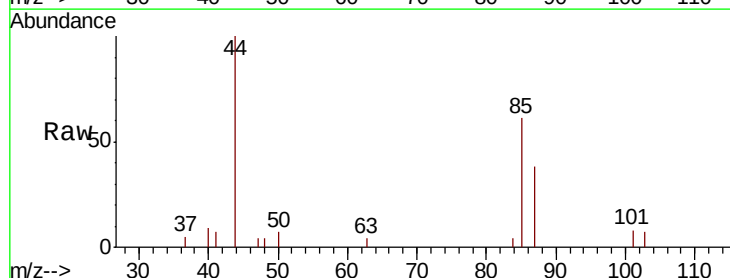
Acq: 07 Oct 2019 13:39

Tgt Ion: 85 Resp: 3633

Ion Ratio Lower Upper

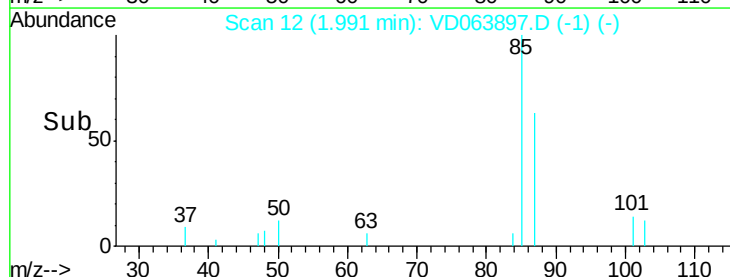
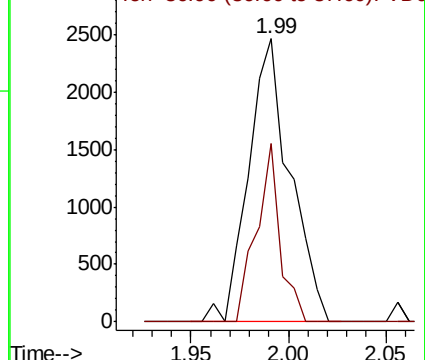
85 100

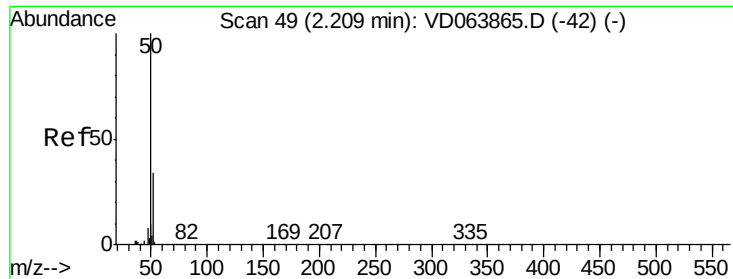
87 63.2 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 2.943 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 50 Resp: 11129

Ion Ratio Lower Upper

50 100

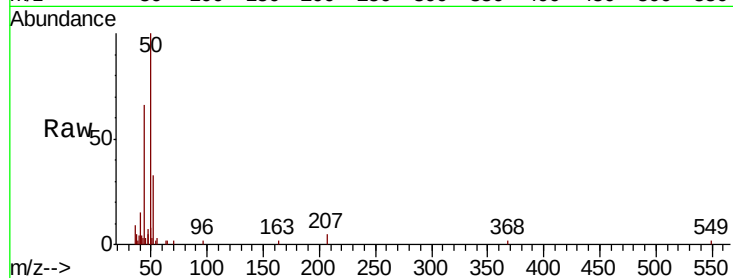
52 32.8 27.5 41.3

Manual Integrations

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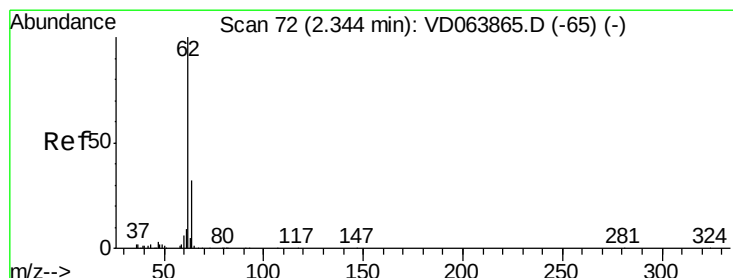
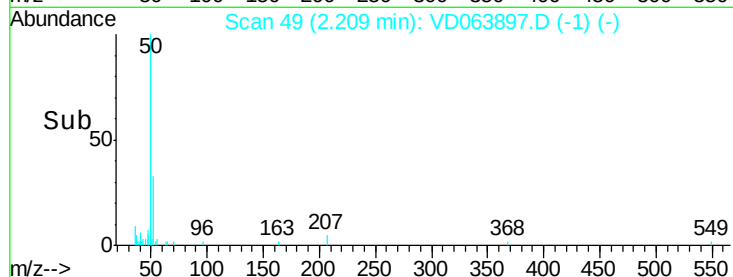
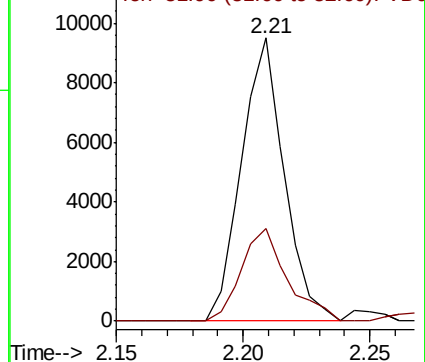
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 2.980 ug/l

RT: 2.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063897.D

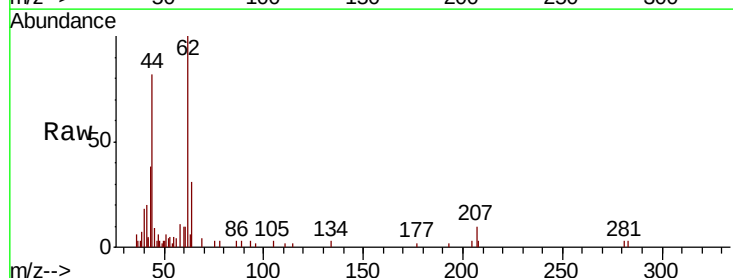
Acq: 07 Oct 2019 13:39

Tgt Ion: 62 Resp: 11893

Ion Ratio Lower Upper

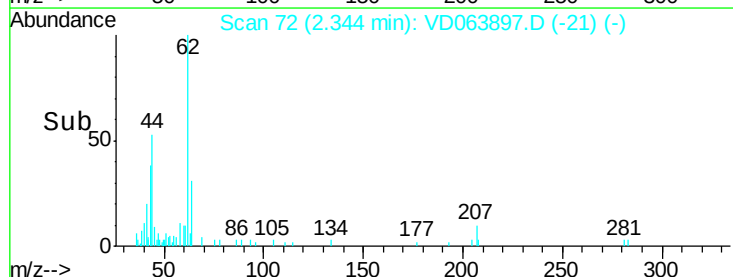
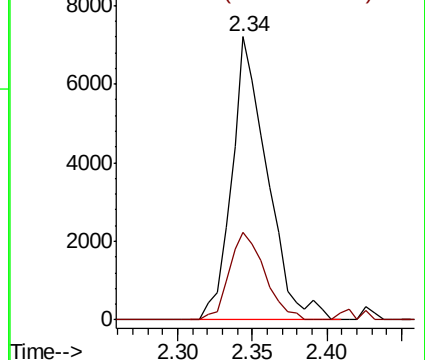
62 100

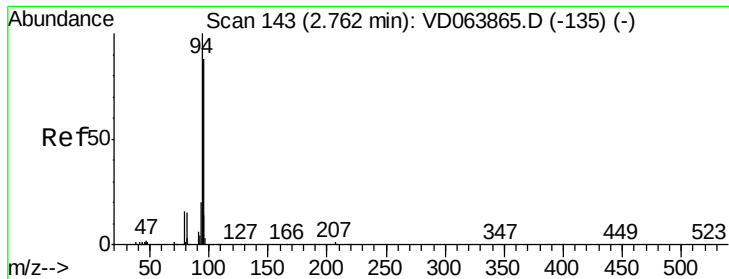
64 31.1 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 3.318 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 94 Resp: 8514

Ion Ratio Lower Upper

94 100

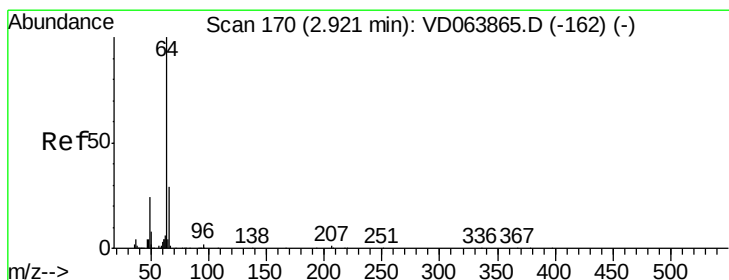
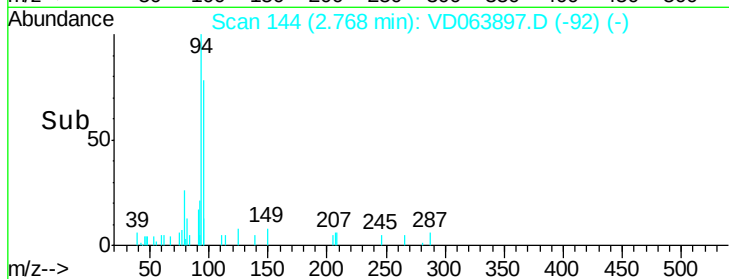
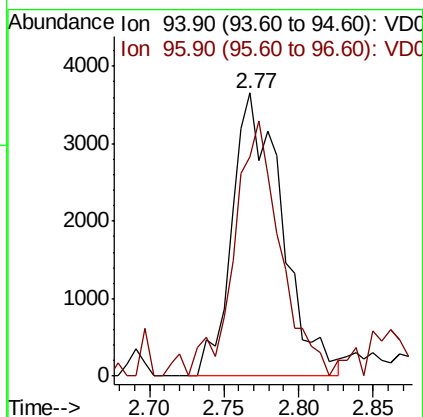
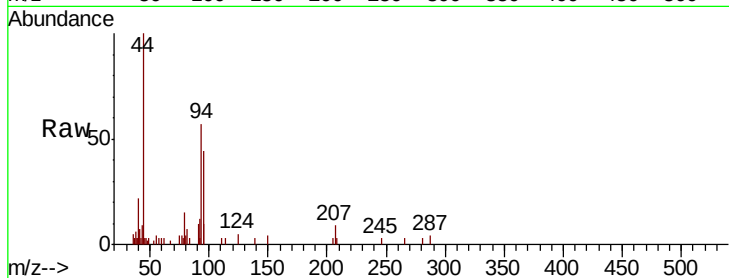
96 77.6 70.8 106.2

Manual Integrations

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#6

Chloroethane

Concen: 2.932 ug/l

RT: 2.93 min Scan# 172

Delta R.T. 0.01 min

Lab File: VD063897.D

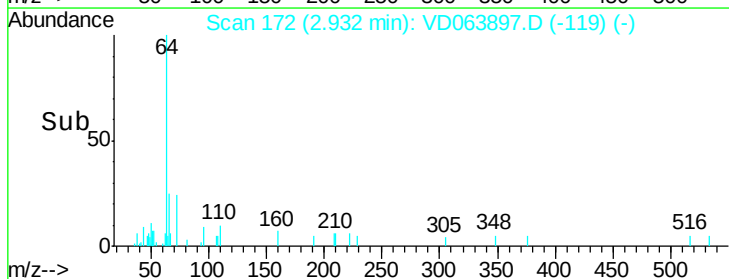
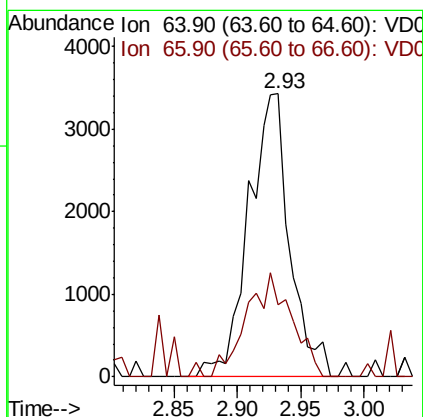
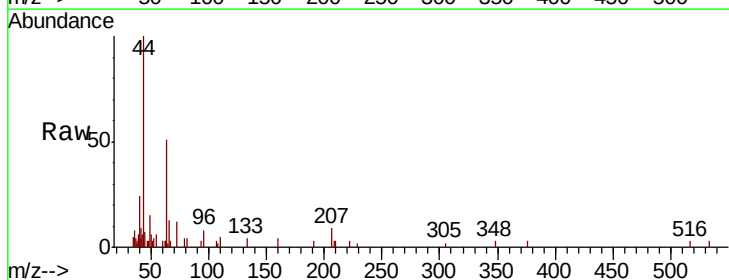
Acq: 07 Oct 2019 13:39

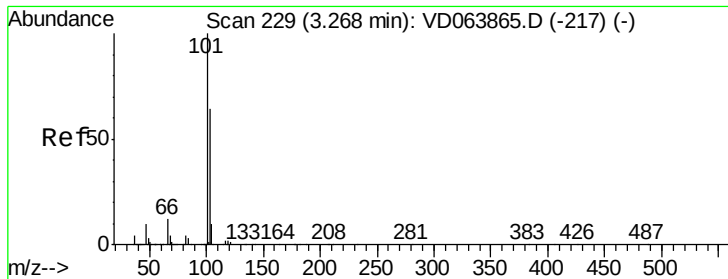
Tgt Ion: 64 Resp: 7739

Ion Ratio Lower Upper

64 100

66 25.5 23.0 34.4





#7

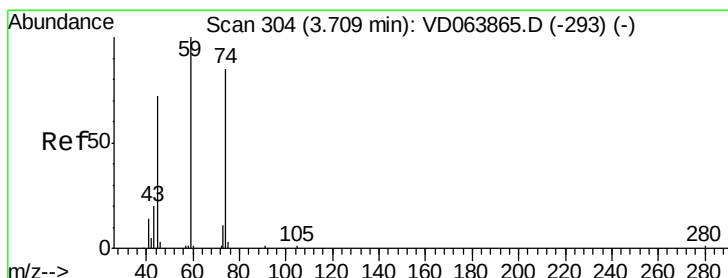
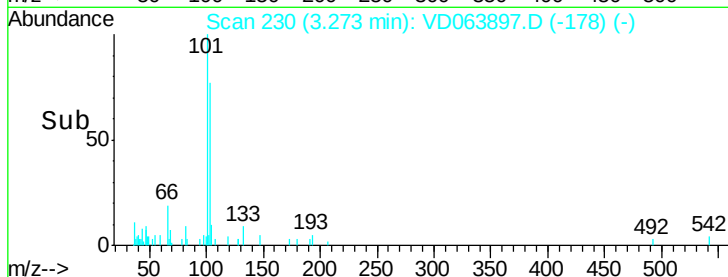
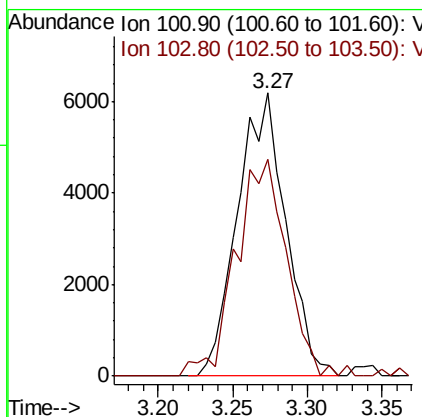
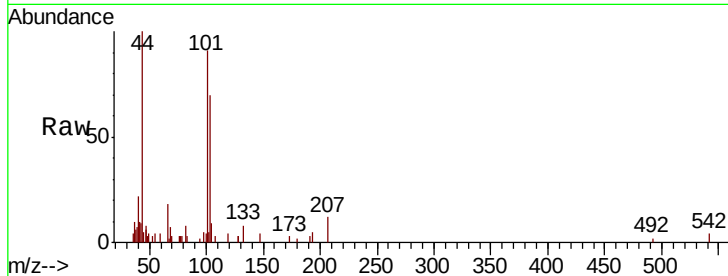
Trichlorofluoromethane
 Concen: 2.635 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
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 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	76.5	51.1	76.7

Manual Integrations
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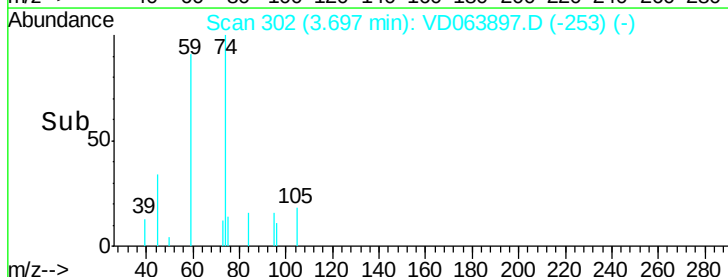
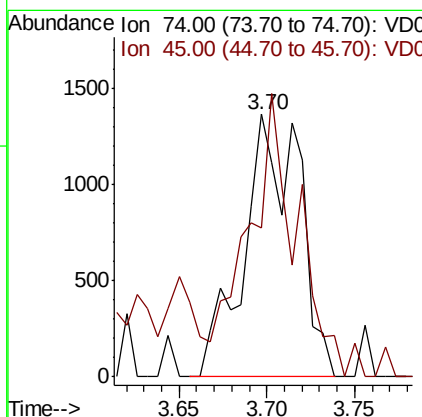
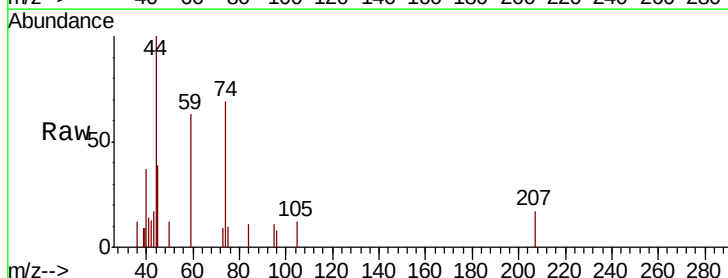
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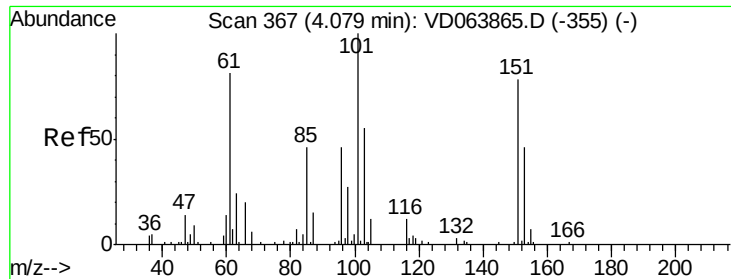


#8

Diethyl Ether
 Concen: 3.568 ug/l m
 RT: 3.70 min Scan# 302
 Delta R.T. -0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.2	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.743 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

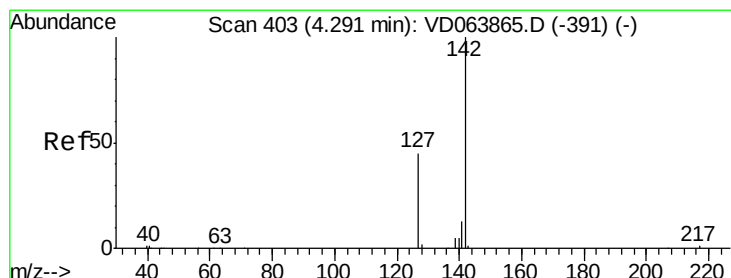
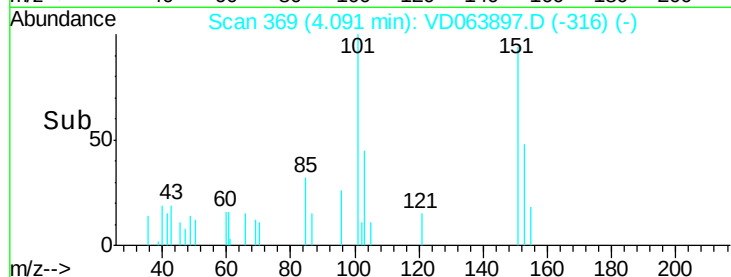
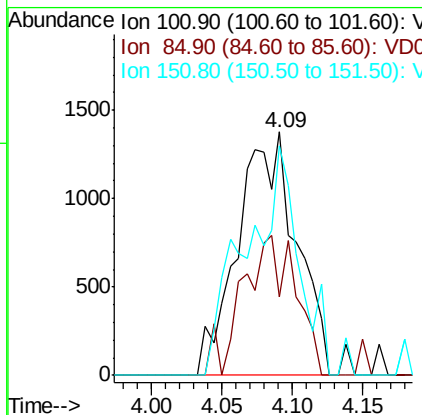
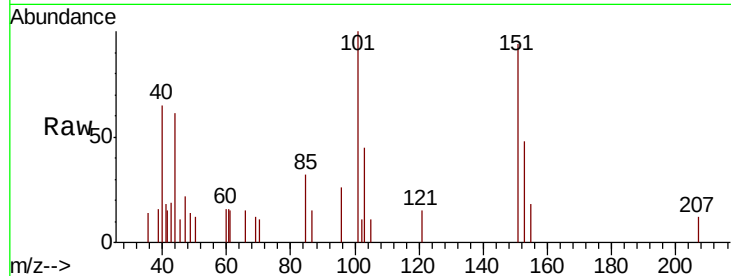
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	101	Resp:	4007
Ion Ratio	Lower	Upper	
101	100		
85	52.0	37.5	56.3
151	84.8	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 2.272 ug/l

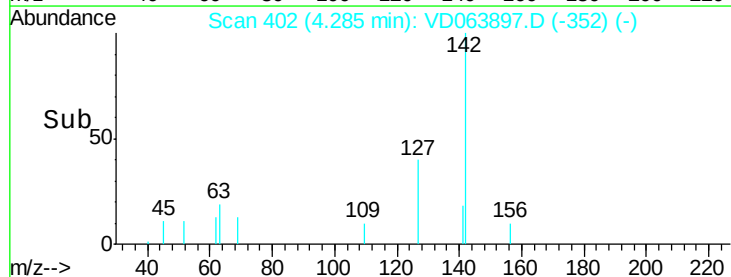
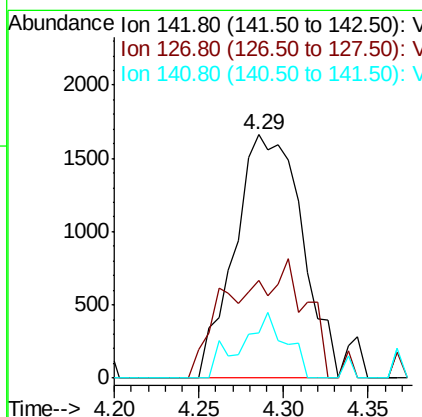
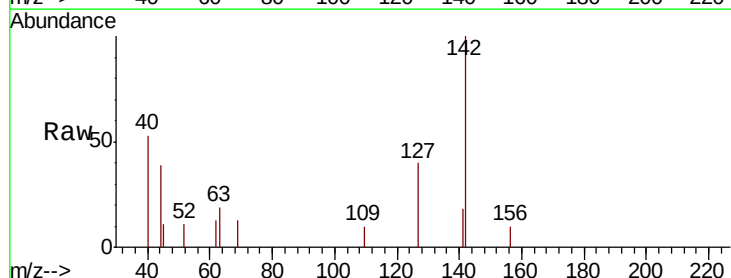
RT: 4.29 min Scan# 402

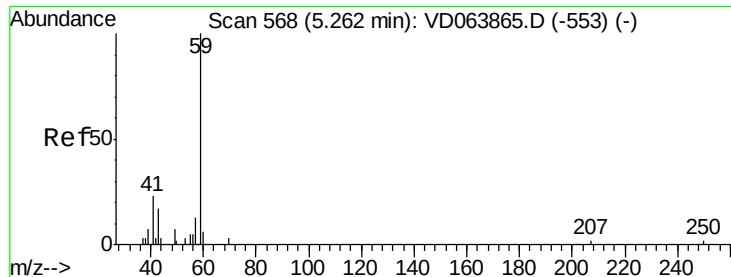
Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion:	142	Resp:	4573
Ion Ratio	Lower	Upper	
142	100		
127	0.0	35.3	52.9#
141	18.2	12.2	18.2





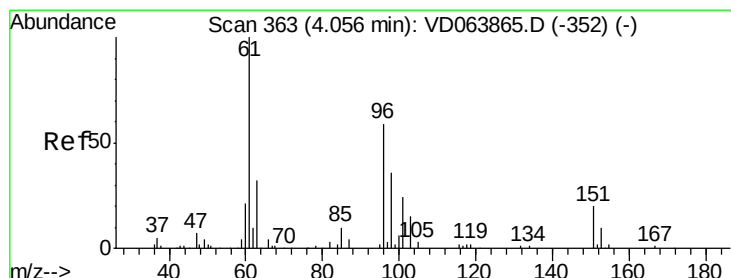
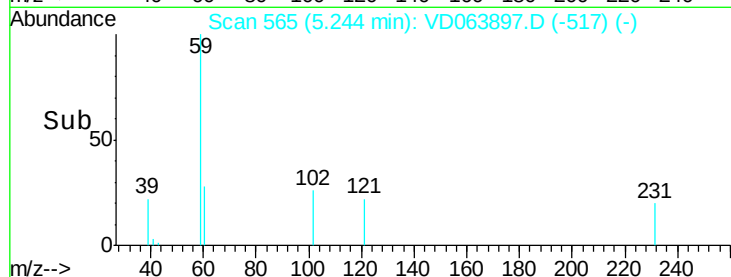
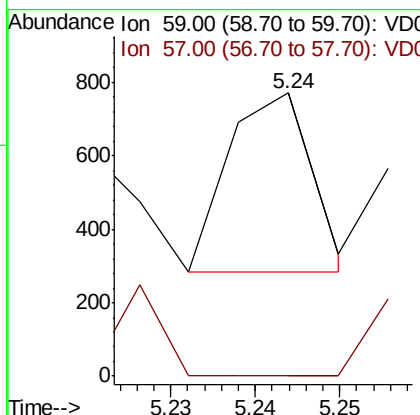
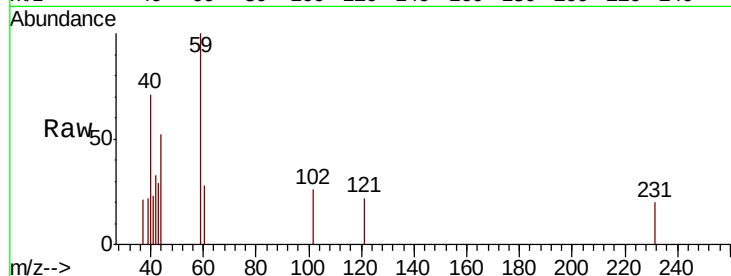
#11
Tert butyl alcohol
Concen: 2.769 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.02 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 59 Resp: 333
Ion Ratio Lower Upper
59 100
57 22.5 8.8 13.2#

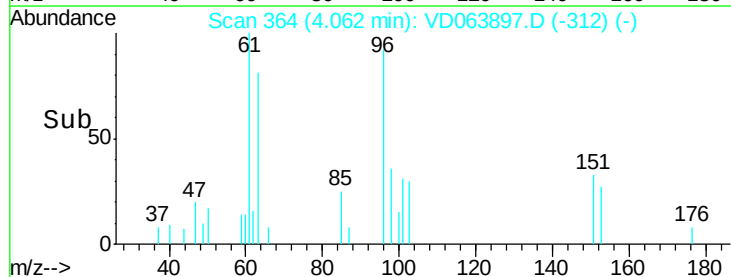
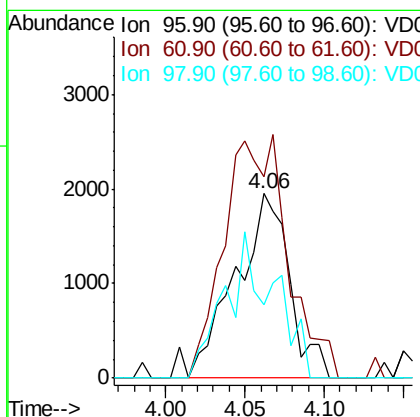
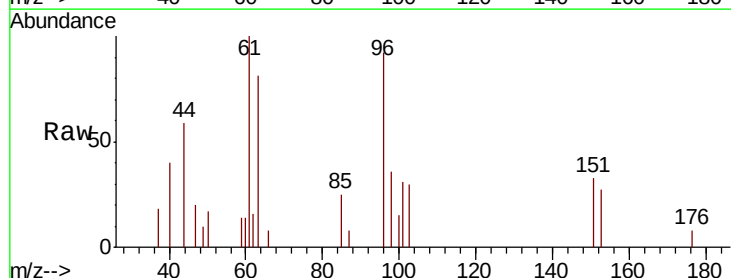
Manual Integrations
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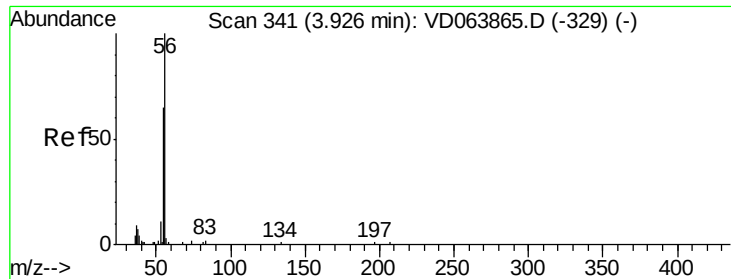
MMDadoda
10/10/2019 1:46:10 PM



#12
1,1-Dichloroethene
Concen: 3.154 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion: 96 Resp: 4603
Ion Ratio Lower Upper
96 100
61 109.2 135.6 203.4#
98 39.5 49.2 73.8#





#13

Acrolein

Concen: 14.953 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 56 Resp: 2264

Ion Ratio Lower Upper

56 100

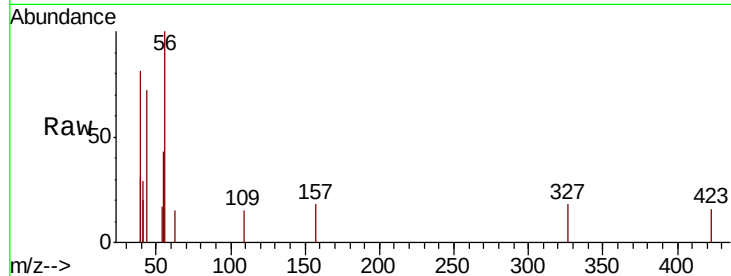
55 60.2 53.0 79.6

Manual Integrations

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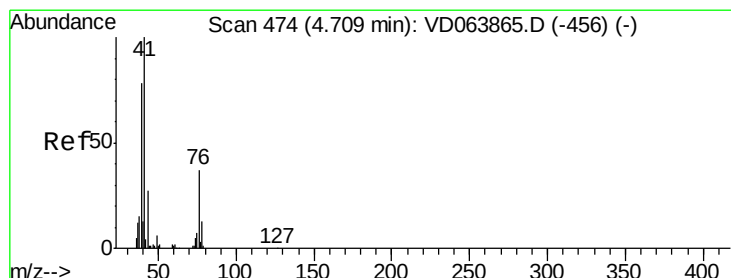
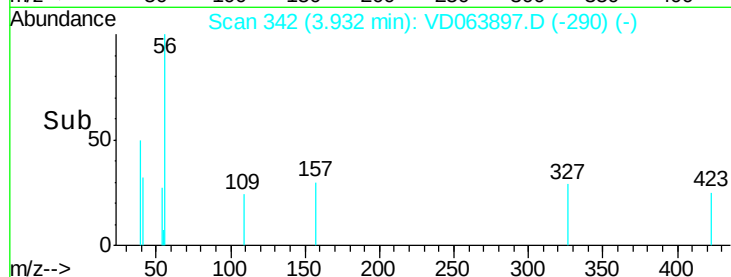
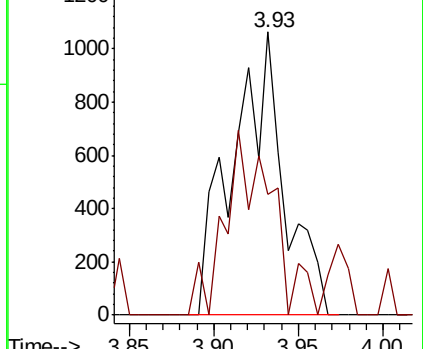
MMDadoda

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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: 3.011 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

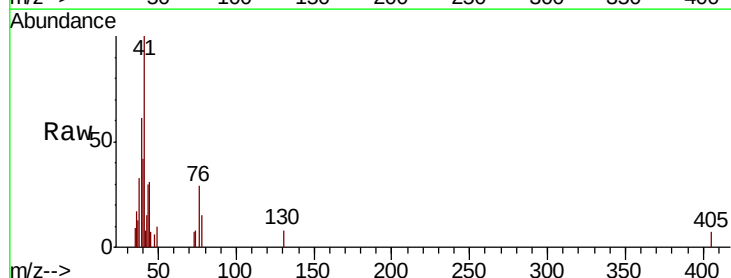
Tgt Ion: 41 Resp: 7305

Ion Ratio Lower Upper

41 100

39 71.0 61.8 92.6

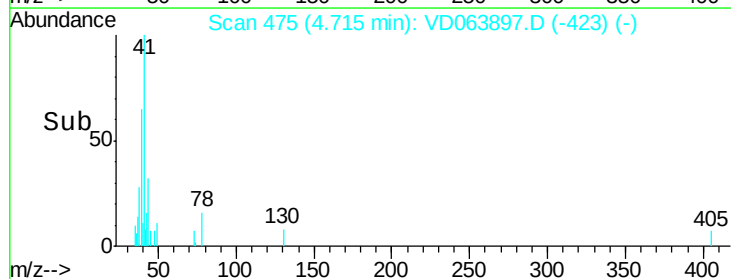
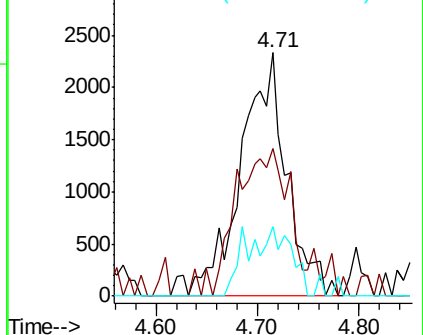
76 15.9 31.3 46.9#

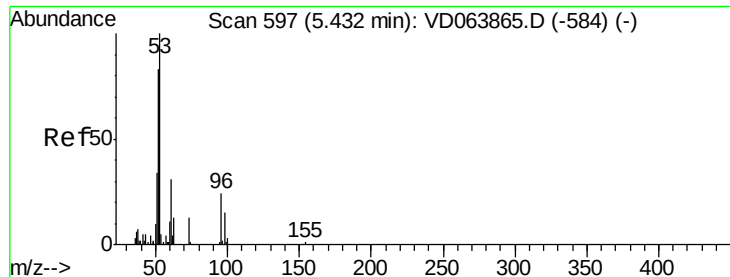


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 13.803 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

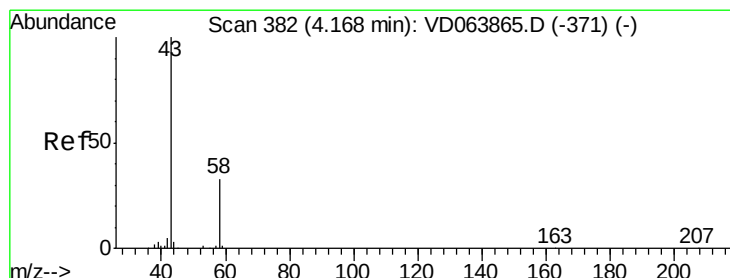
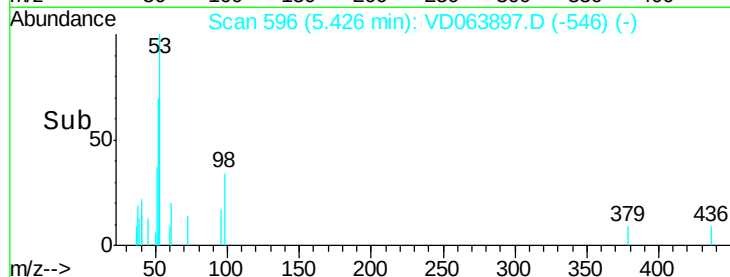
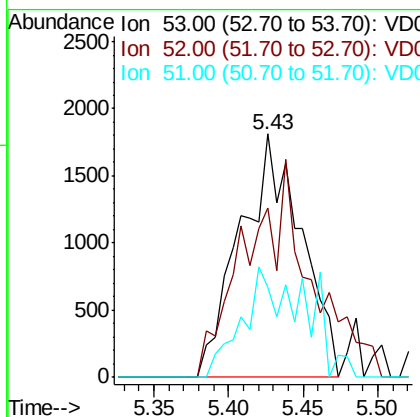
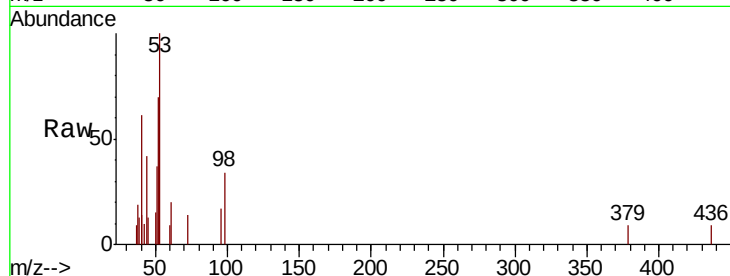
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	53	Resp:	5154
Ion	Ratio	Lower	Upper
53	100		
52	48.7	67.3	100.9#
51	23.7	30.5	45.7#

Manual Integrations
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#16

Acetone

Concen: 17.476 ug/l

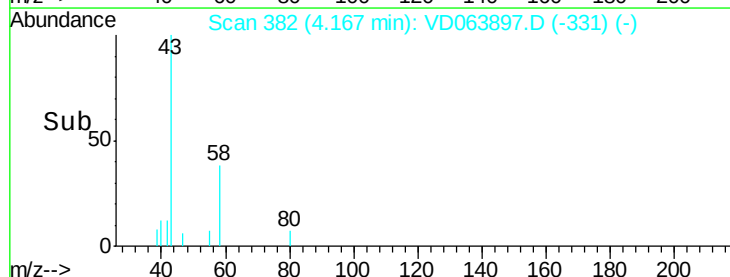
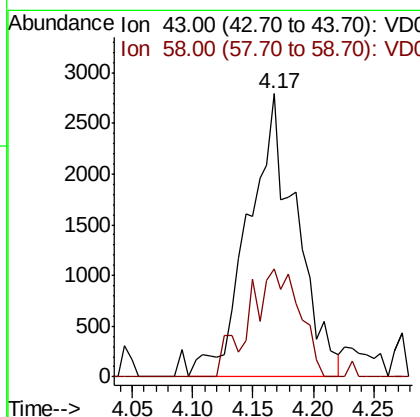
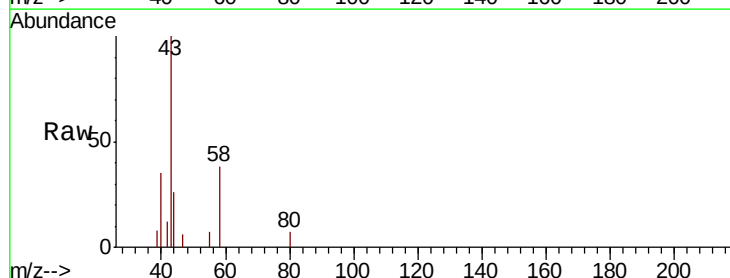
RT: 4.17 min Scan# 382

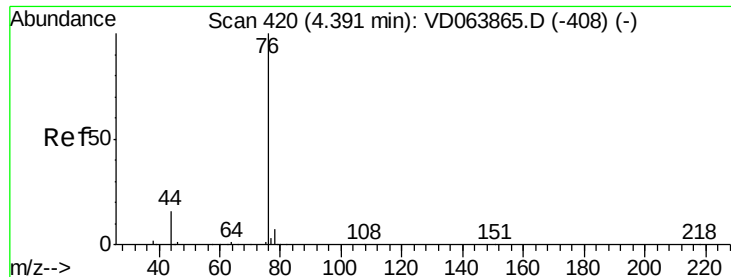
Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion:	43	Resp:	7713
Ion	Ratio	Lower	Upper
43	100		
58	38.0	26.2	39.4





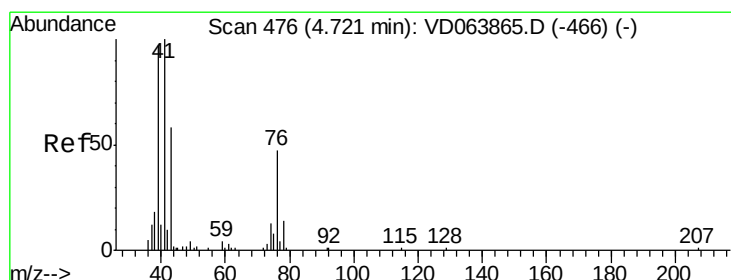
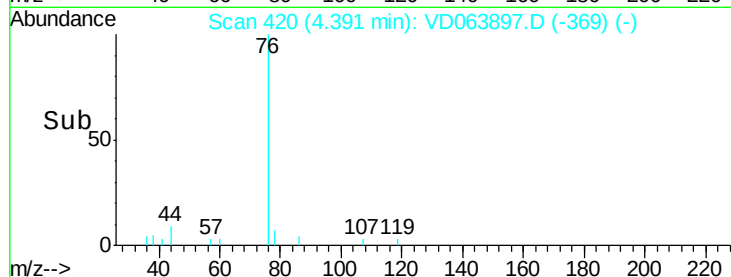
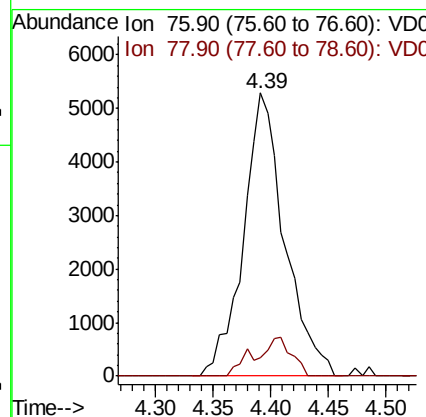
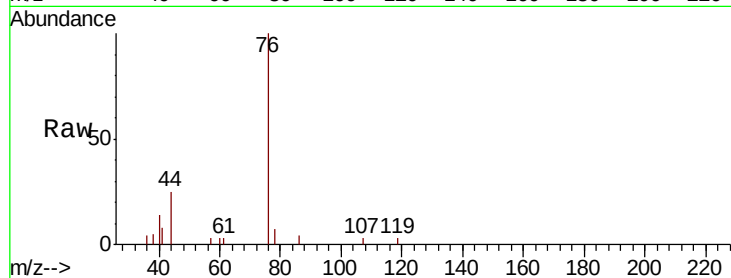
#17
Carbon Disulfide
Concen: 2.474 ug/l
RT: 4.39 min Scan# 420
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 76 Resp: 13124
Ion Ratio Lower Upper
76 100
78 6.6 5.8 8.8

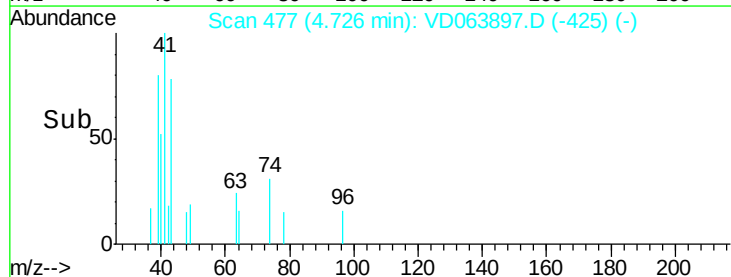
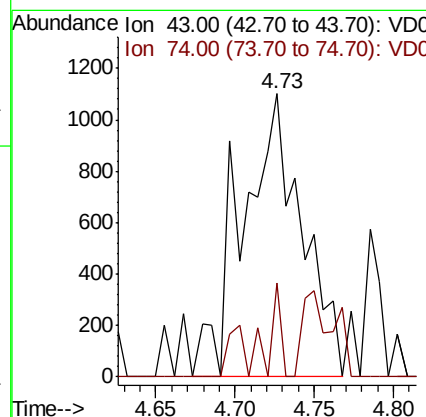
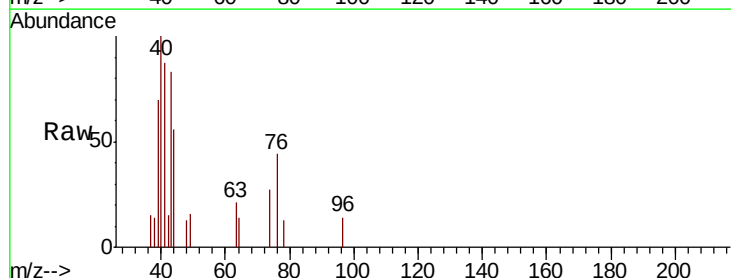
Manual Integrations
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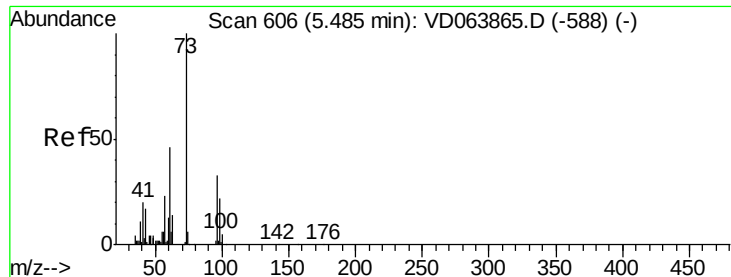
MMDadoda
10/10/2019 1:46:10 PM



#18
Methyl Acetate
Concen: 3.343 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion: 43 Resp: 2886
Ion Ratio Lower Upper
43 100
74 6.8 20.8 31.2#





#19

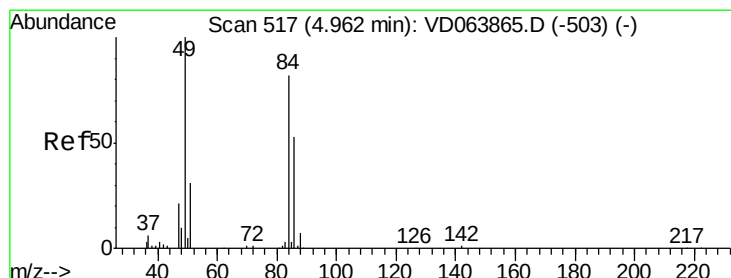
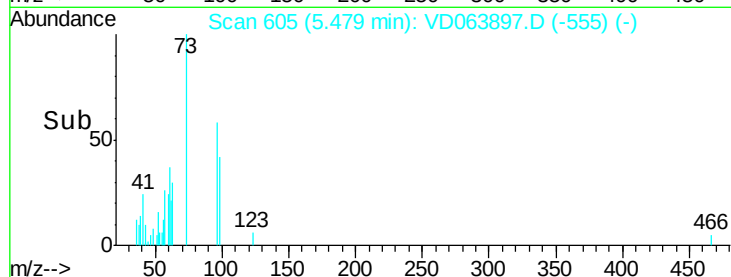
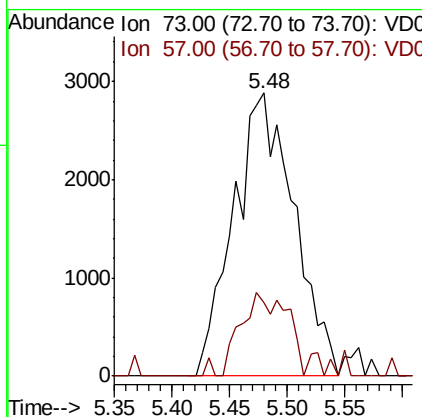
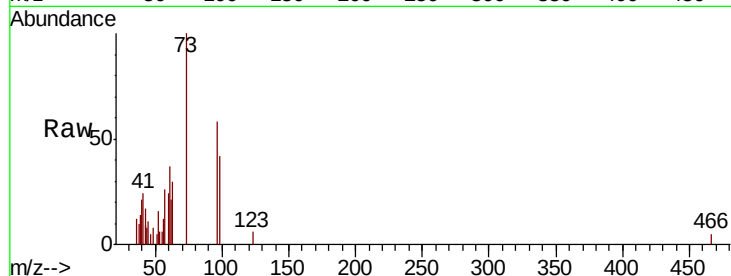
Methyl tert-butyl Ether
 Concen: 2.787 ug/l
 RT: 5.48 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	73	Resp	10533
Ion Ratio	Lower	Upper	
73	100		
57	26.0	18.1	27.1

Manual Integrations
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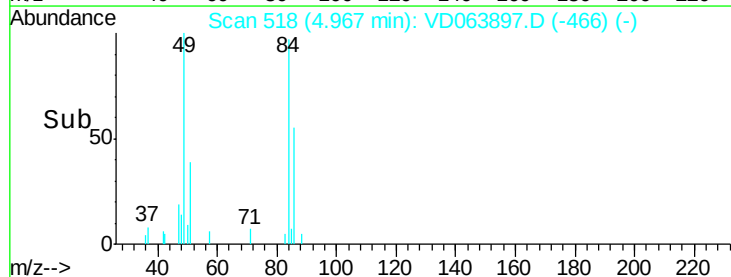
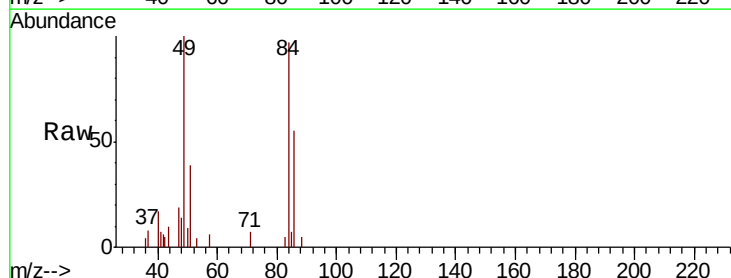
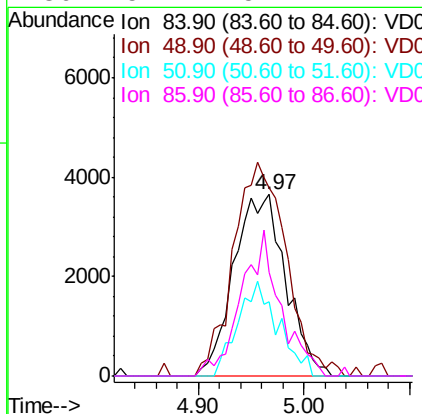
MMDadoda
 10/10/2019 1:46:10 PM

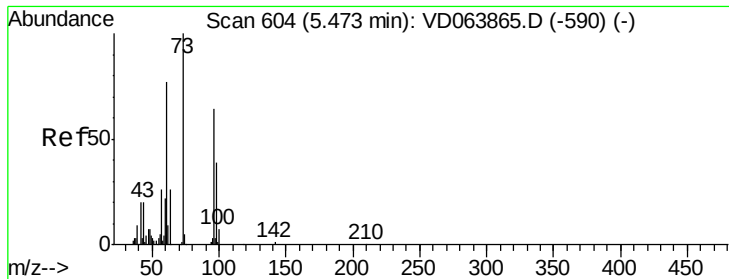


#20

Methylene Chloride
 Concen: 5.508 ug/l
 RT: 4.97 min Scan# 518
 Delta R.T. 0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion	84	Resp	12477
Ion Ratio	Lower	Upper	
84	100		
49	103.6	97.3	145.9
51	40.9	30.1	45.1
86	57.1	51.4	77.2





#21

trans-1,2-Dichloroethene

Concen: 2.730 ug/l

RT: 5.48 min Scan# 605

Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

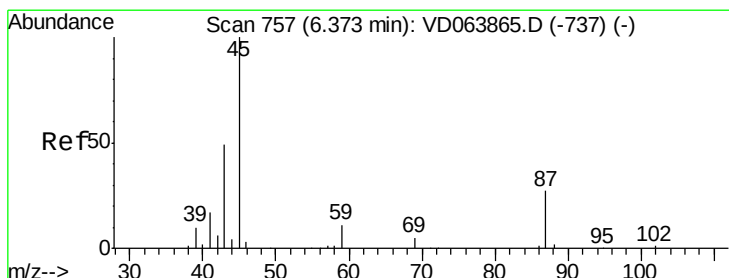
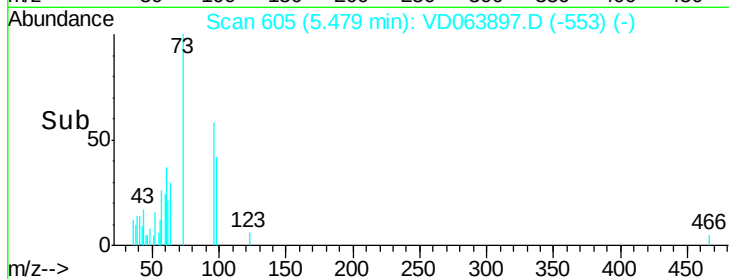
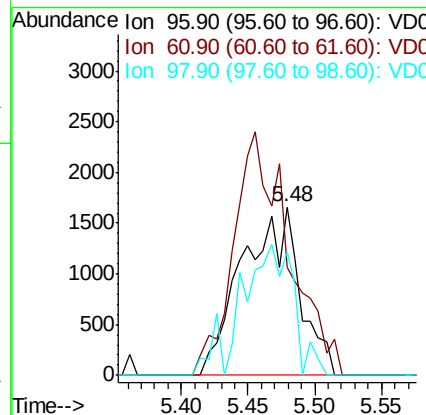
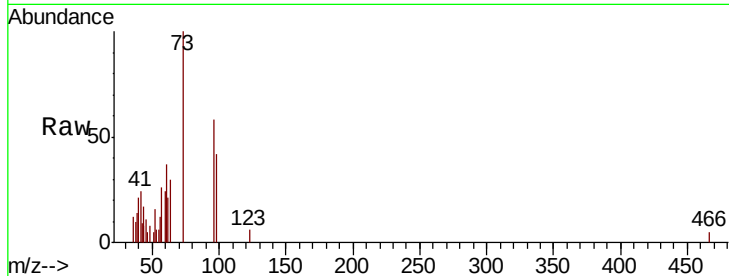
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	96	Resp:	4960
Ion	Ratio	Lower	Upper
96	100		
61	64.2	96.6	145.0#
98	73.2	48.7	73.1#

Manual Integrations
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#22

Diisopropyl ether

Concen: 2.642 ug/l

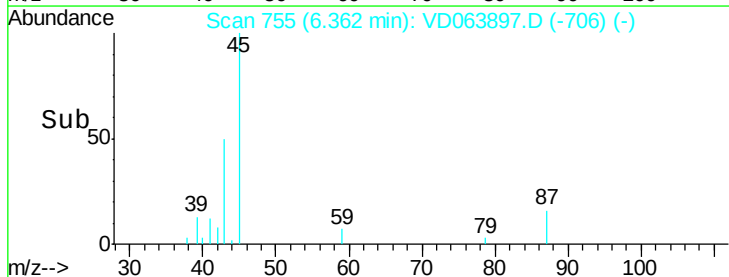
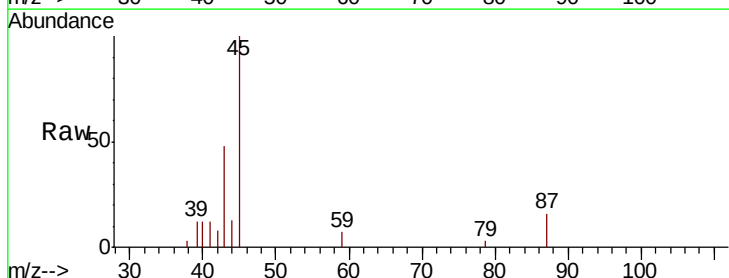
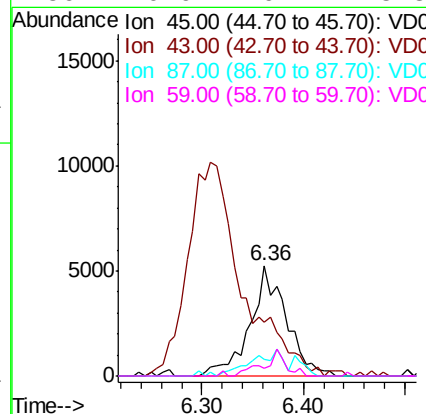
RT: 6.36 min Scan# 755

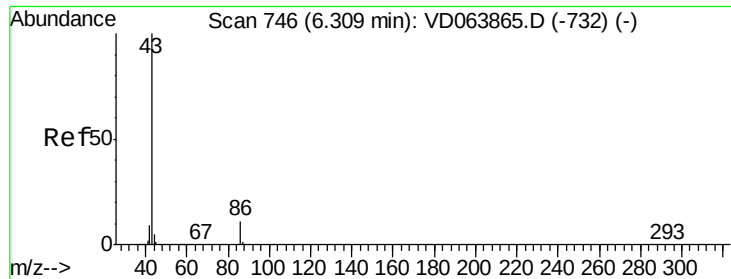
Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion:	45	Resp:	13091
Ion	Ratio	Lower	Upper
45	100		
43	43.8	41.2	61.8
87	15.6	22.2	33.4#
59	6.9	9.2	13.8#





#23

Vinyl Acetate

Concen: 12.764 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 43 Resp: 37622

Ion Ratio Lower Upper

43 100

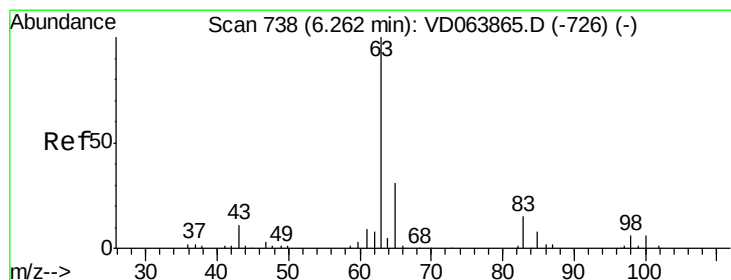
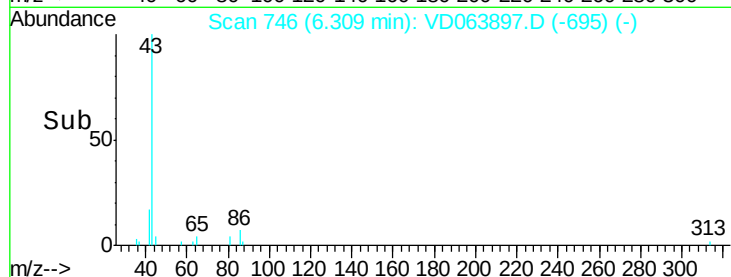
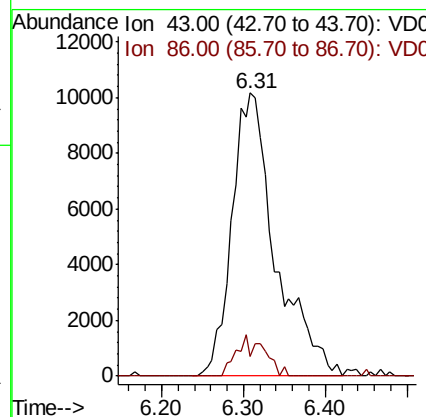
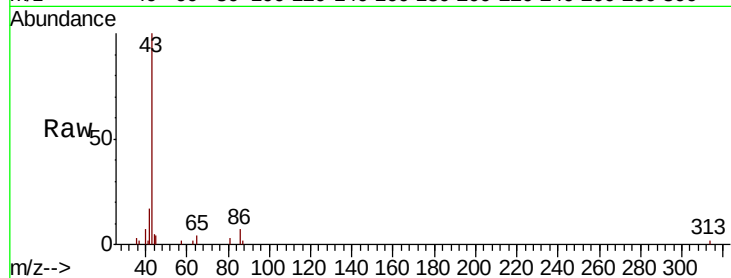
86 6.8 8.8 13.2#

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 2.880 ug/l

RT: 6.26 min Scan# 737

Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

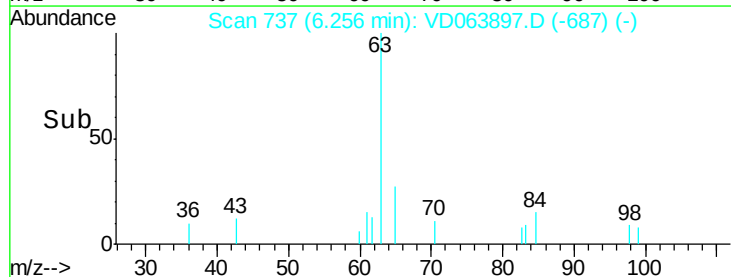
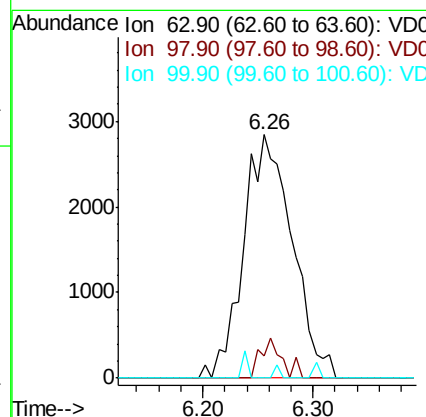
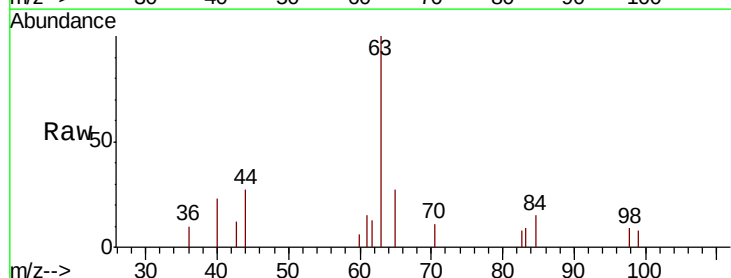
Tgt Ion: 63 Resp: 8791

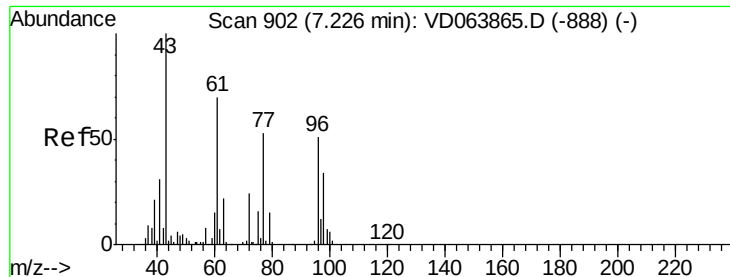
Ion Ratio Lower Upper

63 100

98 9.1 3.1 9.4

100 0.0 3.0 9.2#





#25

2-Butanone

Concen: 15.928 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 43 Resp: 8331

Ion Ratio Lower Upper

43 100

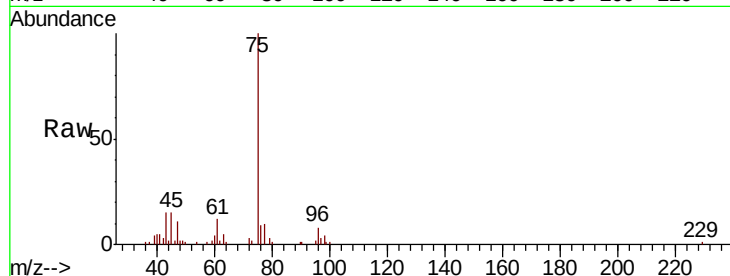
72 20.4 19.2 28.8

Manual Integrations

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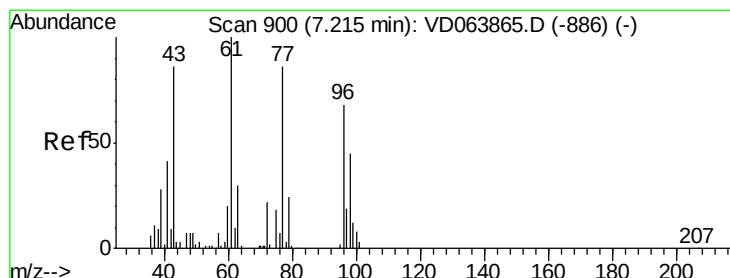
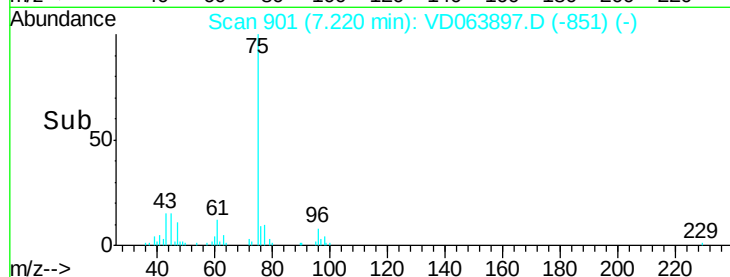
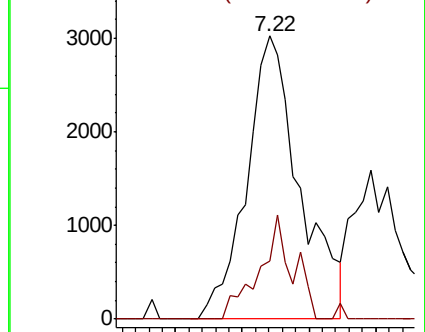
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.386 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD063897.D

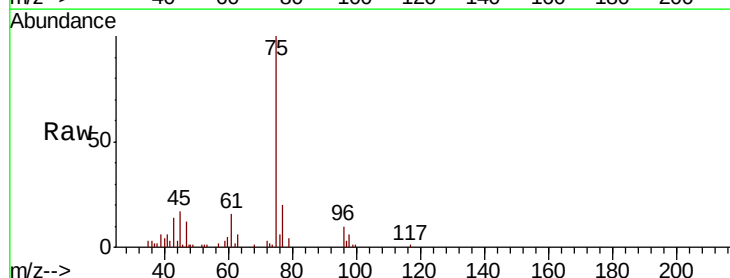
Acq: 07 Oct 2019 13:39

Tgt Ion: 77 Resp: 9348

Ion Ratio Lower Upper

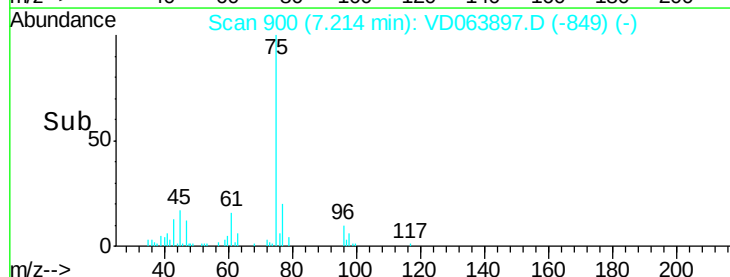
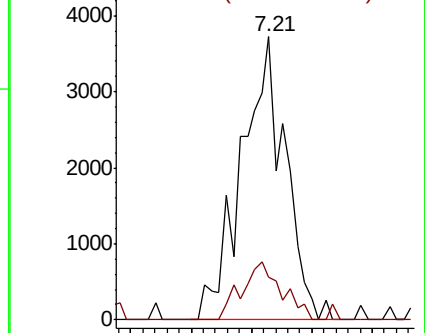
77 100

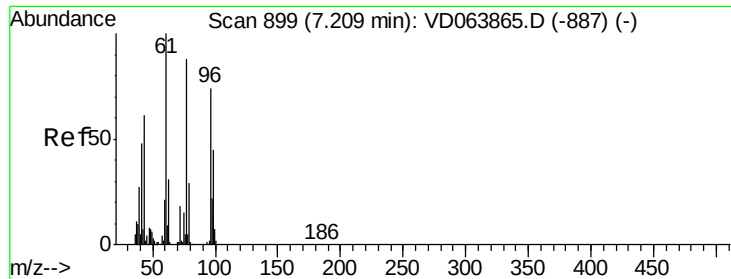
97 18.6 11.4 34.1



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

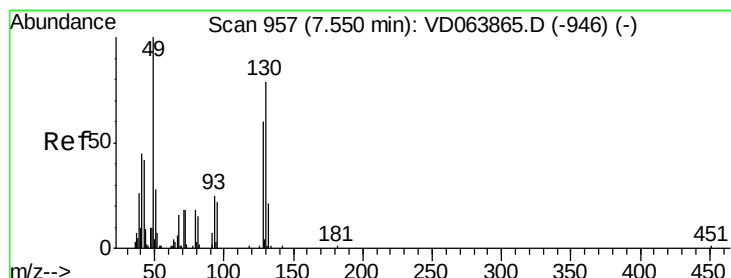
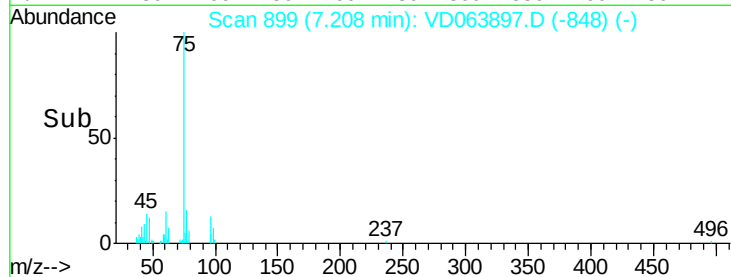
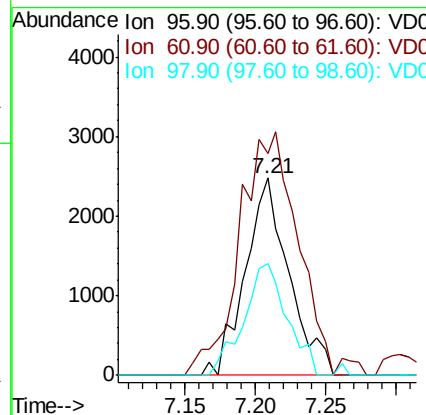
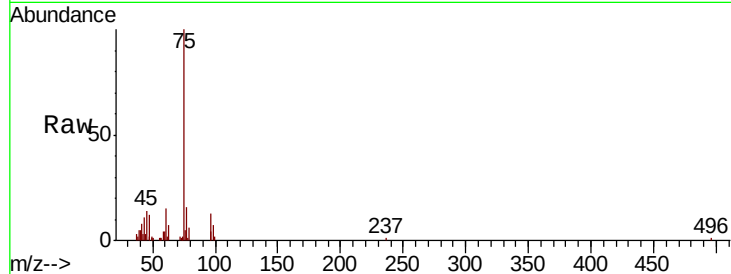
cis-1,2-Dichloroethene
Concen: 2.610 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	163.8	0.0	280.0
98	56.5	0.0	130.4

Manual Integrations
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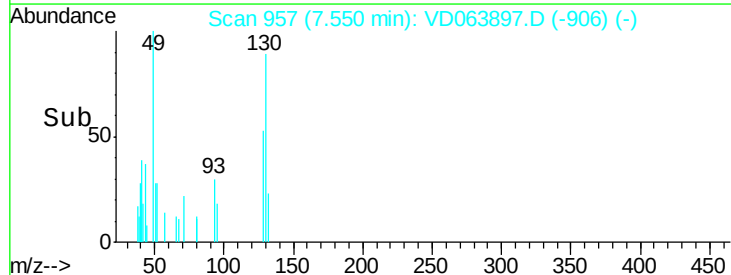
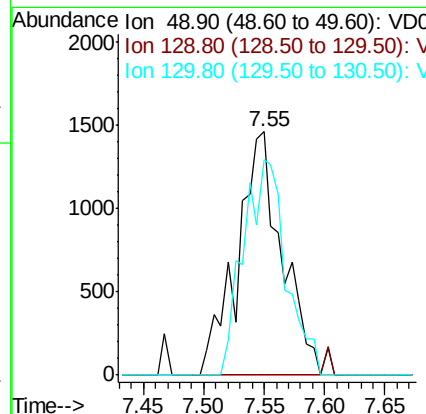
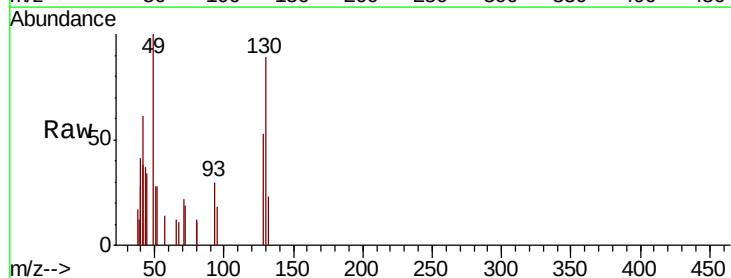
MMDadoda
10/10/2019 1:46:10 PM

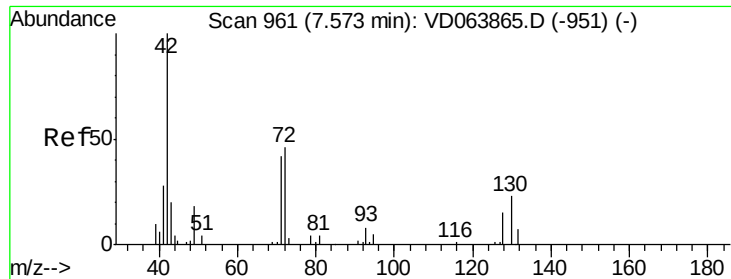


#28

Bromochloromethane
Concen: 3.315 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	84.0	66.8	100.2





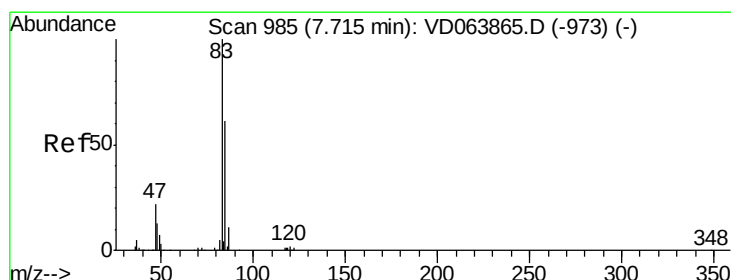
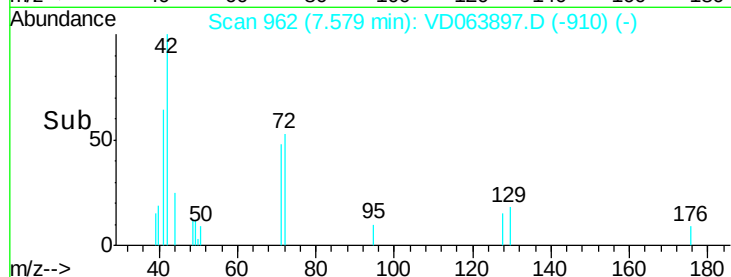
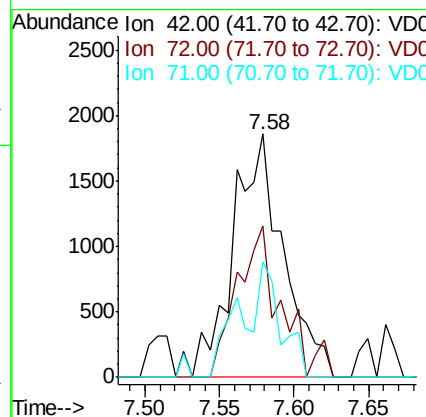
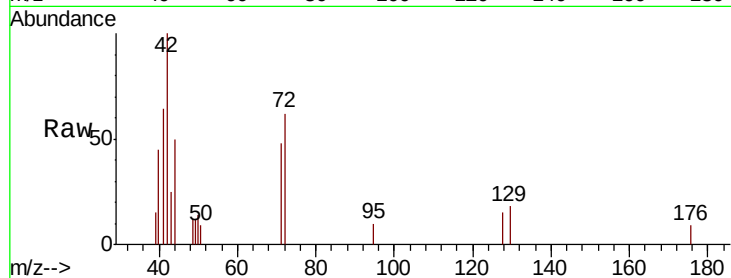
#29
Tetrahydrofuran
Concen: 14.229 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	52.6	37.6	56.4
71	20.5	35.0	52.6

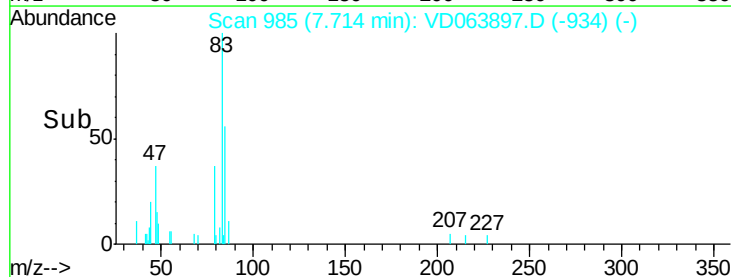
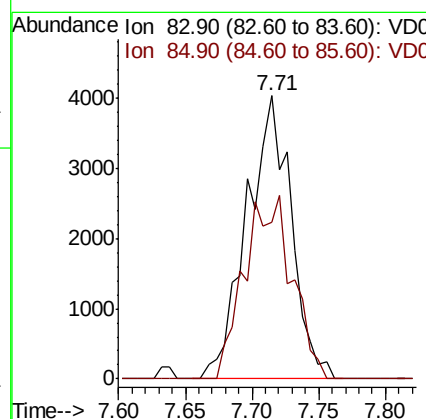
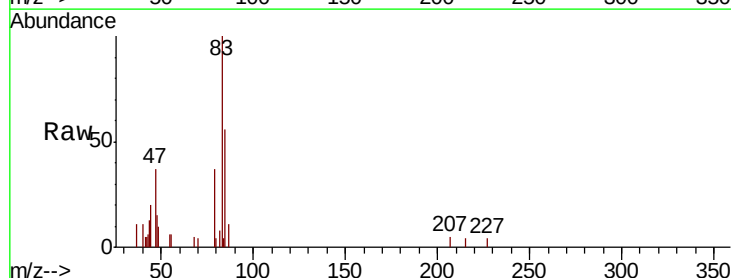
Manual Integrations
APPROVED

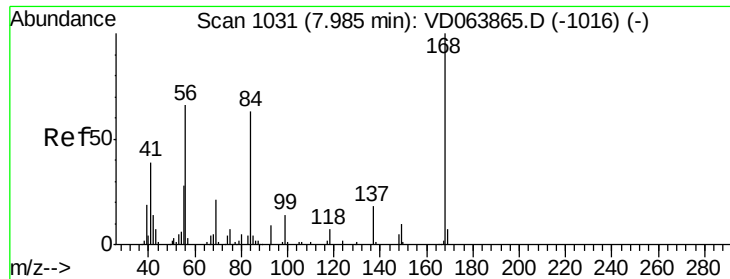
MMDadoda
10/10/2019 1:46:10 PM



#30
Chloroform
Concen: 2.804 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.5	48.9	73.3





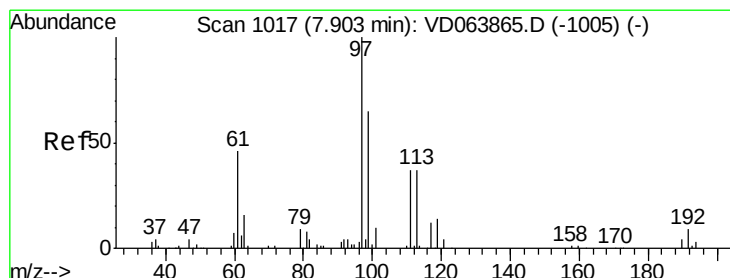
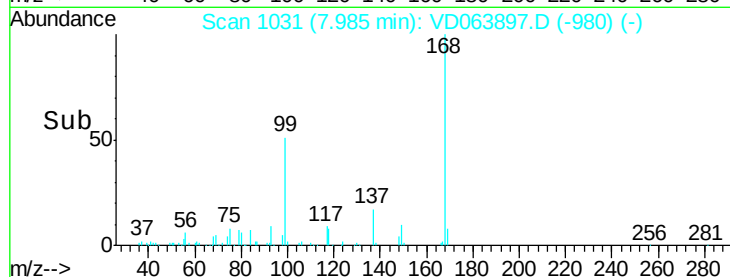
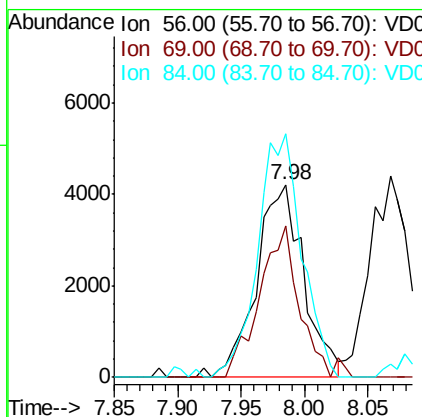
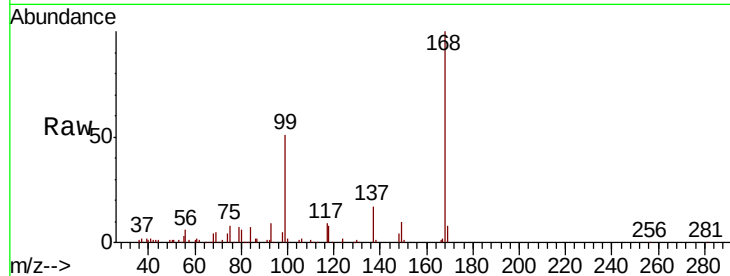
#31
Cyclohexane
Concen: 3.834 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	78.7	25.0	37.4#	
84	126.5	76.3	114.5#	

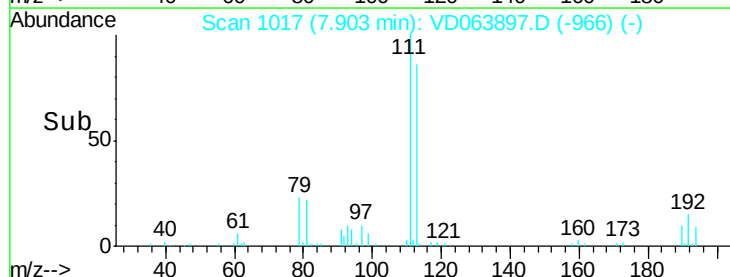
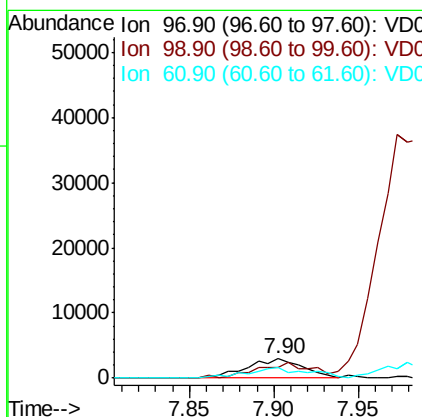
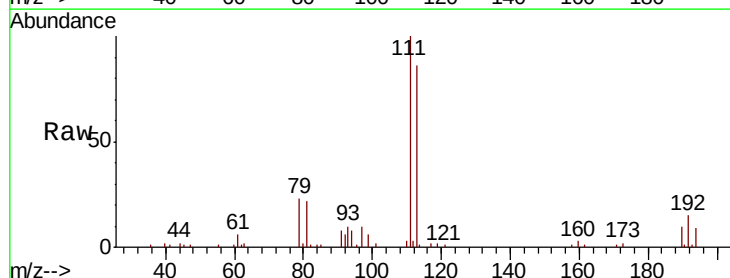
Manual Integrations
APPROVED

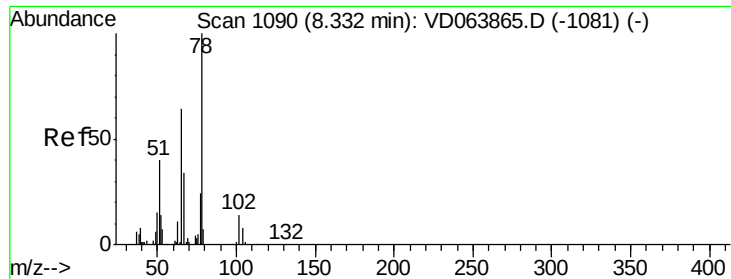
MMDadoda
10/10/2019 1:46:10 PM



#32
1,1,1-Trichloroethane
Concen: 2.436 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	74.6	52.4	78.6	
61	55.9	33.8	50.8#	





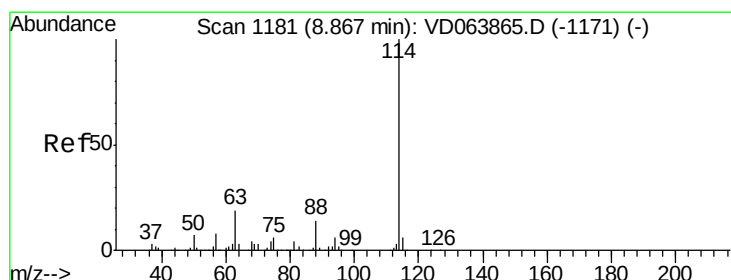
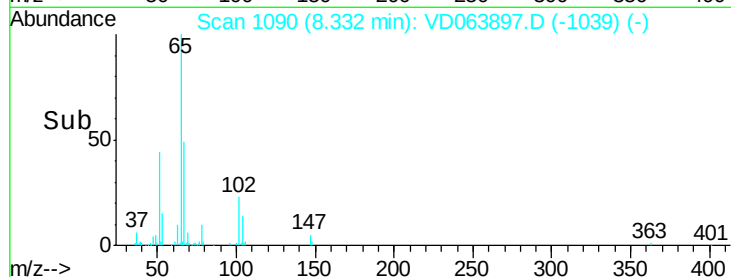
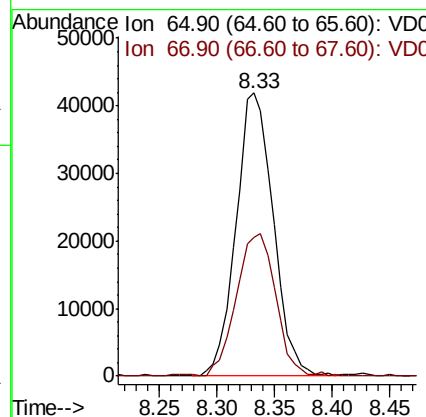
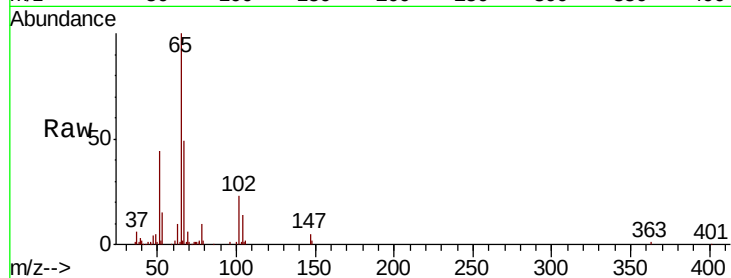
#33
 1,2-Dichloroethane-d4
 Concen: 55.321 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 65 Resp: 93779
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.4

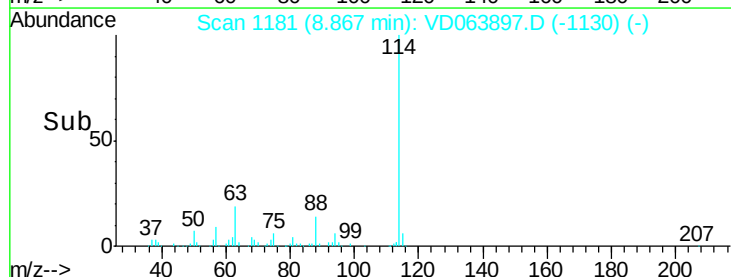
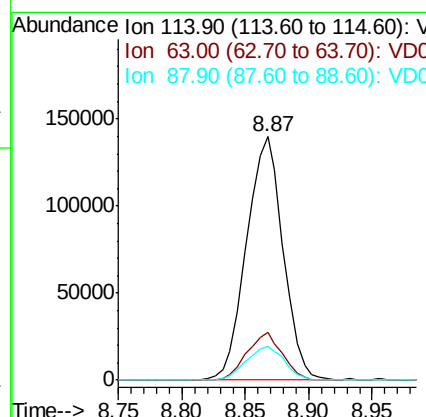
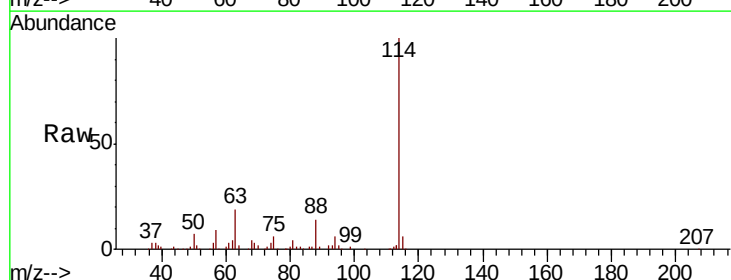
Manual Integrations
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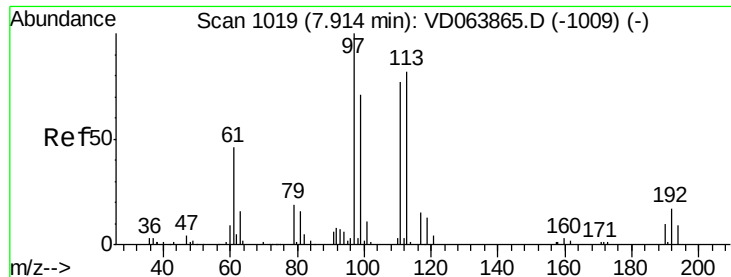
MMDadoda
 10/10/2019 1:46:10 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion: 114 Resp: 280766
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.4
 88 13.9 0.0 27.4





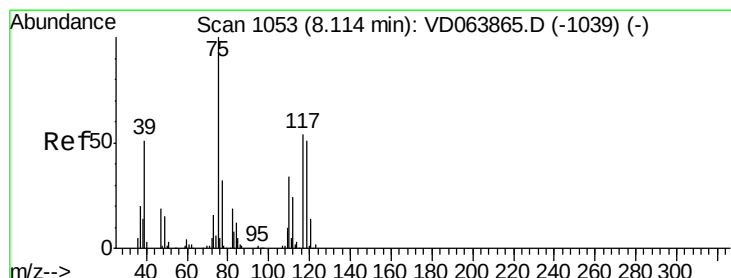
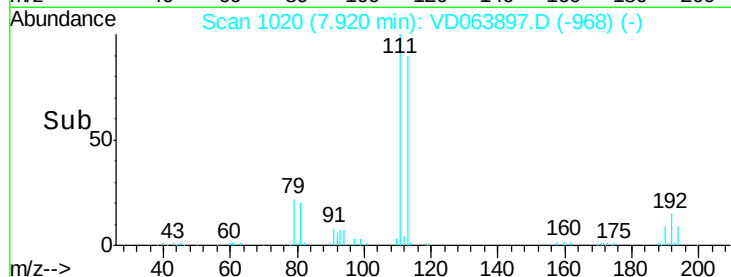
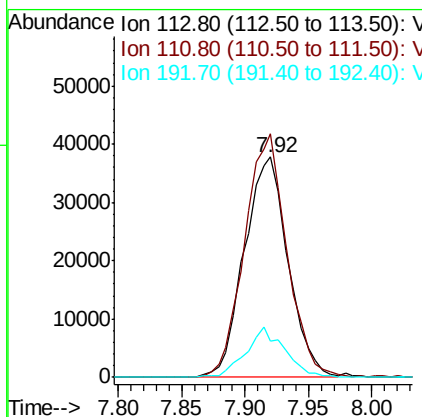
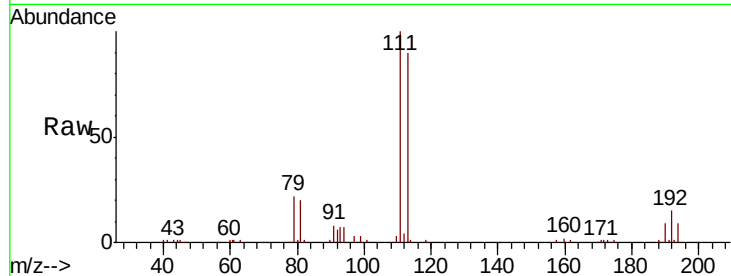
#35
Dibromofluoromethane
Concen: 52.773 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	106.9	82.6	123.8
192	20.3	17.1	25.7

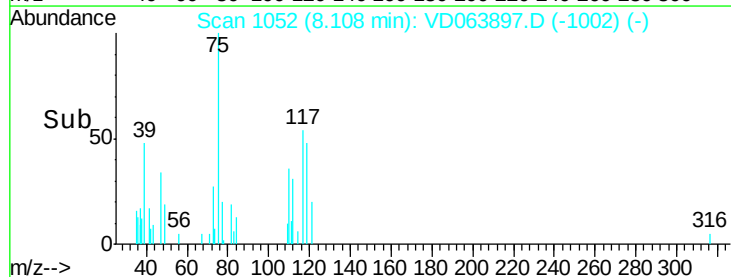
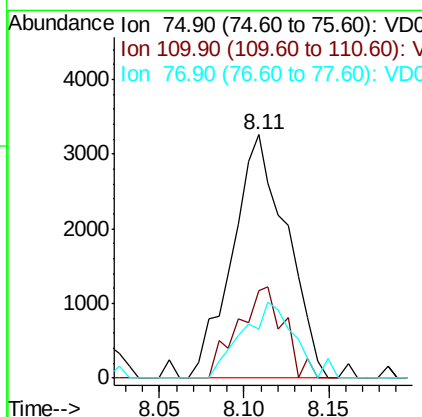
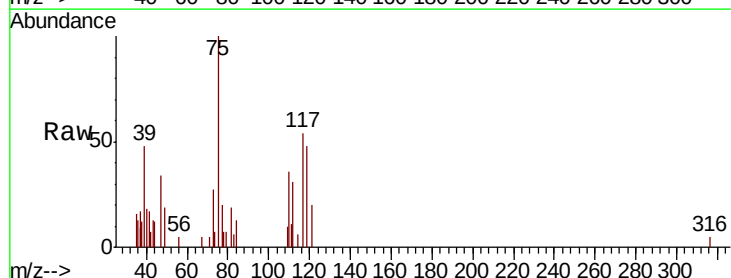
Manual Integrations
APPROVED

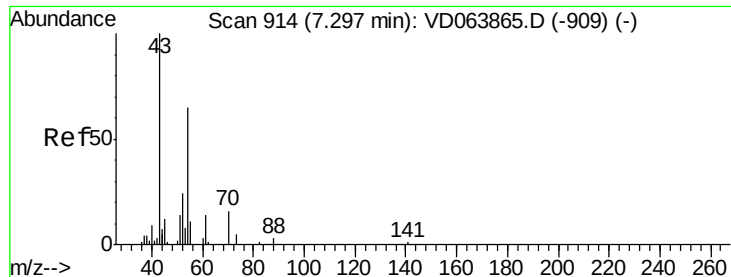
MMDadoda
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#36
1,1-Dichloropropene
Concen: 2.842 ug/l
RT: 8.11 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.7	17.4	52.3
77	30.0	25.4	38.0





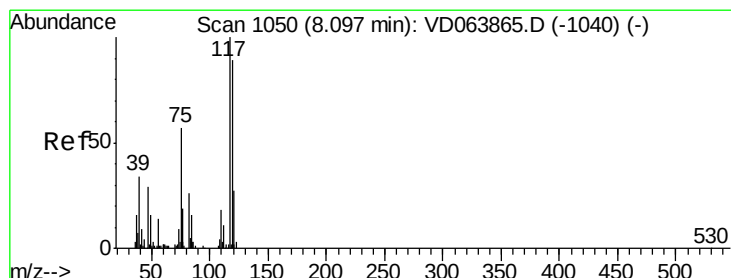
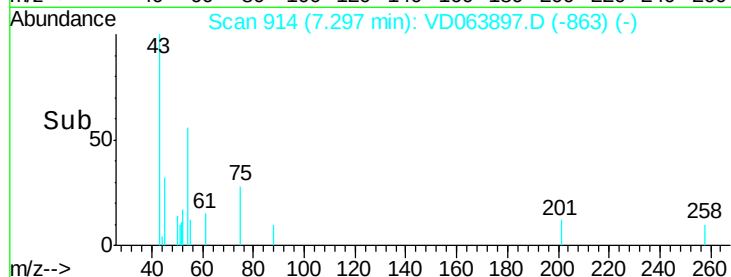
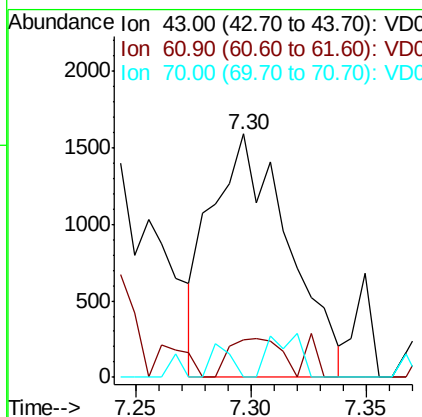
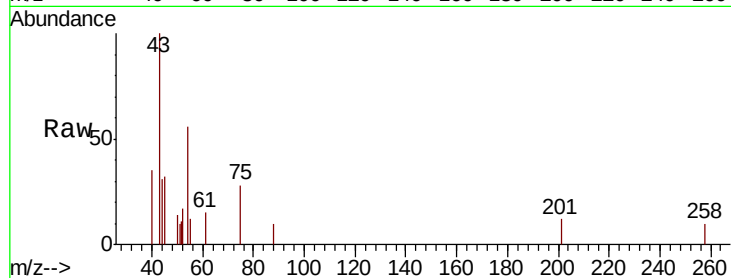
#37
Ethyl Acetate
Concen: 3.172 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	10.6	11.5	17.3#
70	3.6	8.2	12.4#

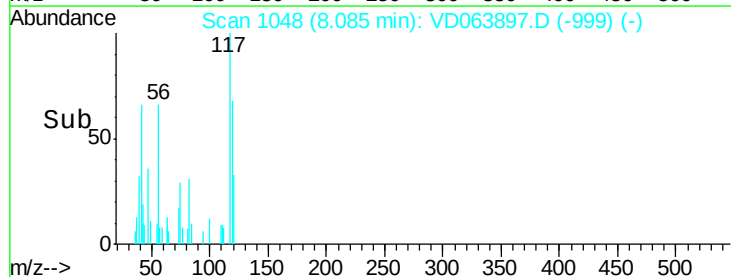
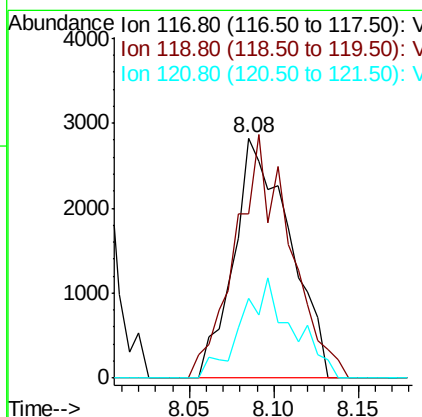
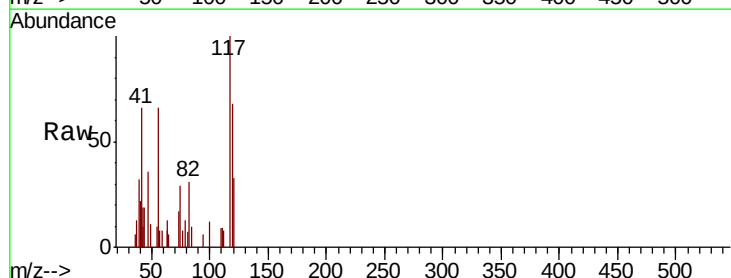
Manual Integrations
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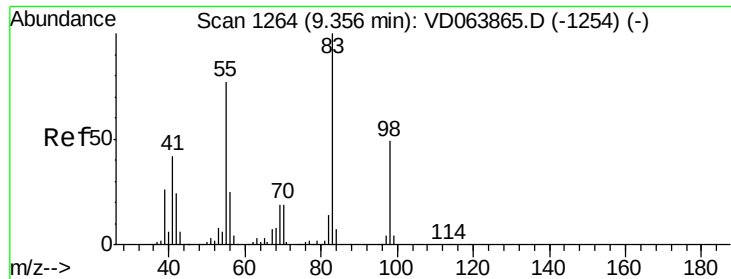
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#38
Carbon Tetrachloride
Concen: 2.494 ug/l
RT: 8.08 min Scan# 1048
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	68.3	70.8	106.2#
121	33.4	21.4	32.0#





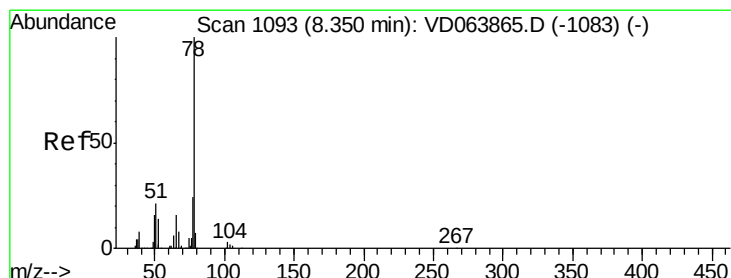
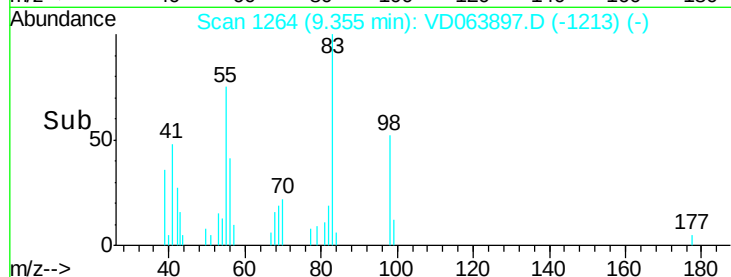
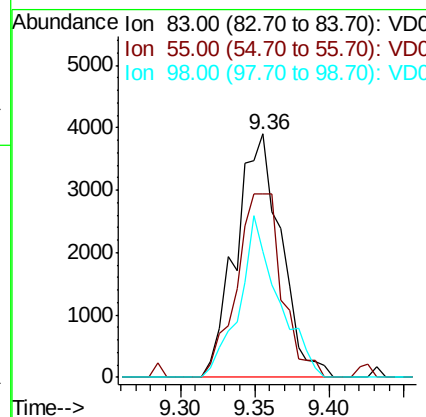
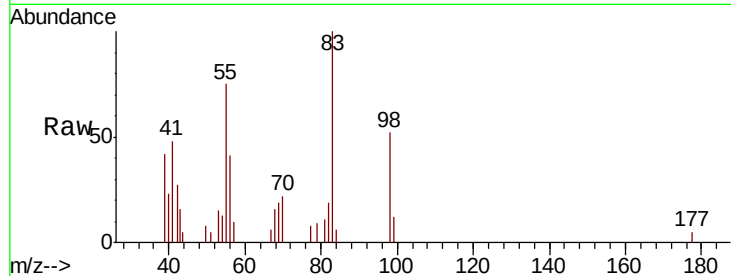
#39
Methylvlcyclohexane
Concen: 2.598 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.3	61.3	91.9
98	51.9	39.3	58.9

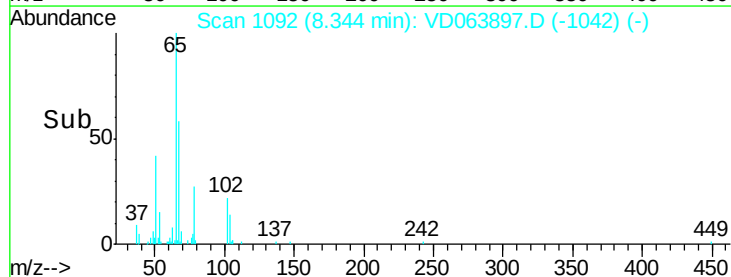
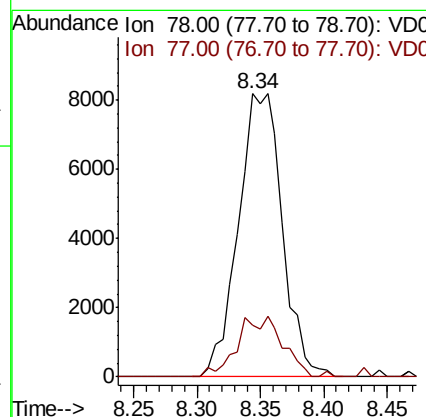
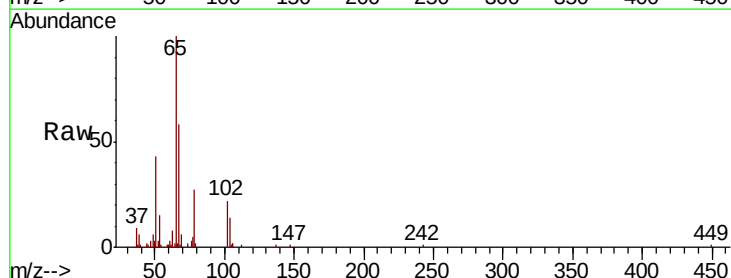
Manual Integrations
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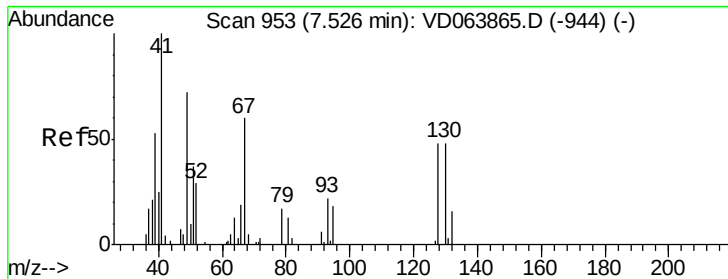
MMDadoda
10/10/2019 1:46:10 PM



#40
Benzene
Concen: 2.683 ug/l
RT: 8.34 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.3	19.0	28.6#





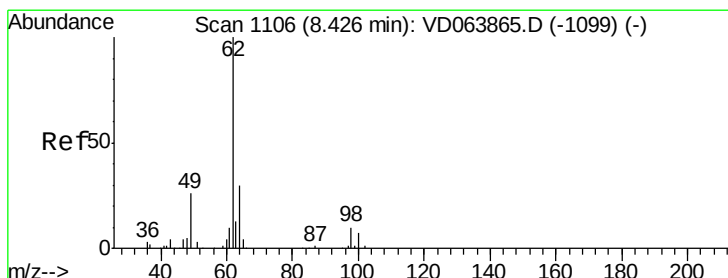
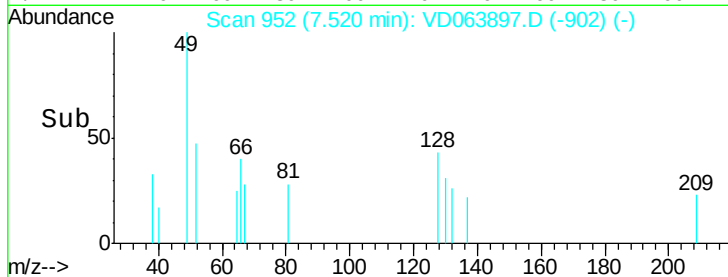
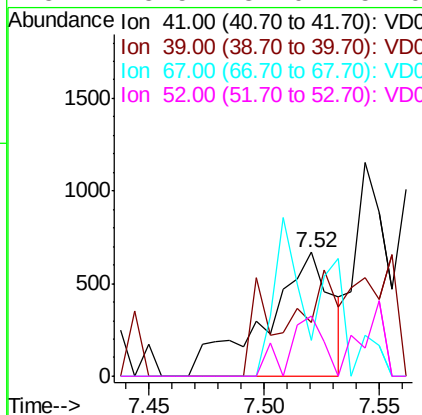
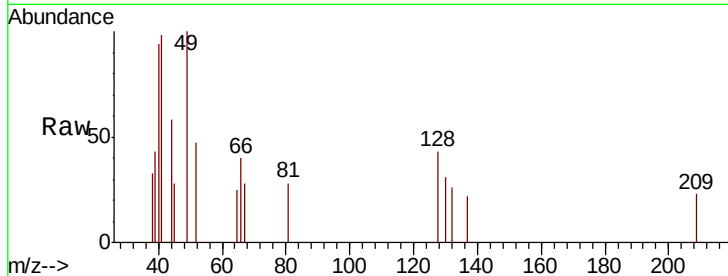
#41
Methacrylonitrile
Concen: 2.243 ug/l
RT: 7.52 min Scan# 952
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
41	100		
39	17.4	52.6	78.8#
67	41.3	74.2	111.2#
52	25.5	34.0	51.0#

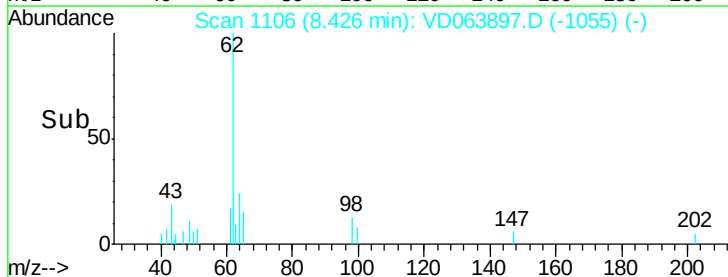
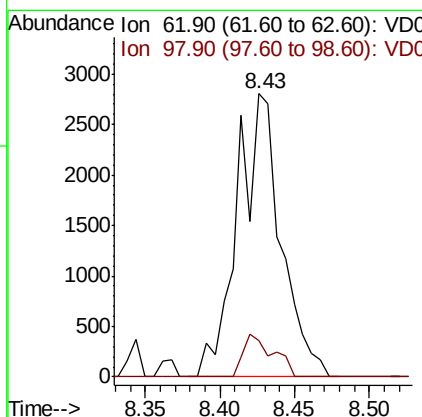
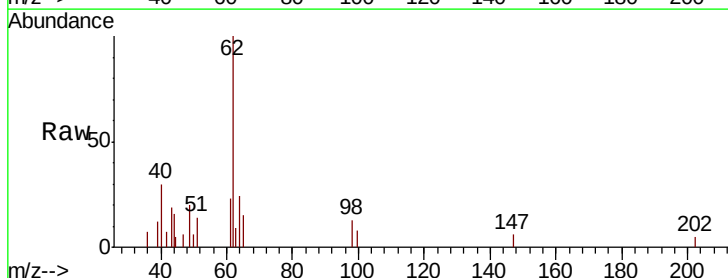
Manual Integrations
APPROVED

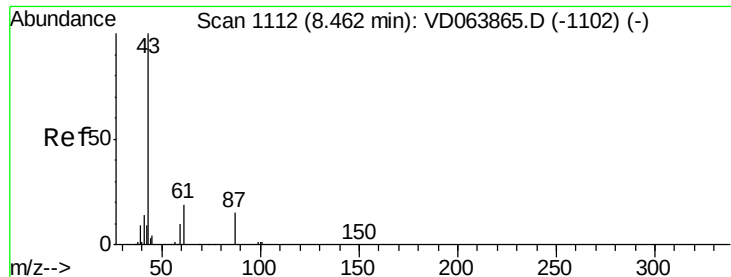
MMDadoda
10/10/2019 1:46:10 PM



#42
1,2-Dichloroethane
Concen: 2.671 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.0





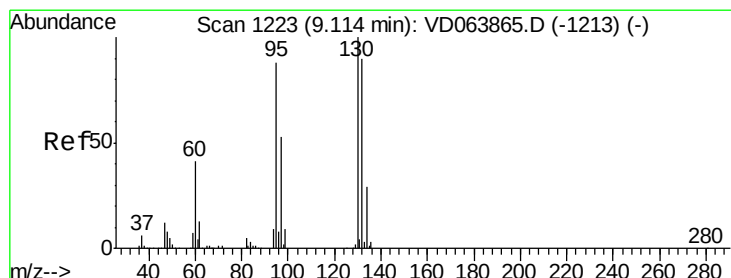
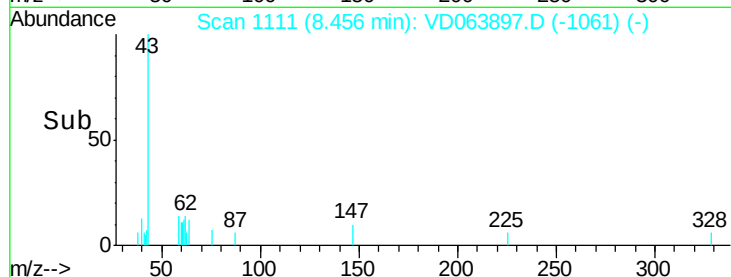
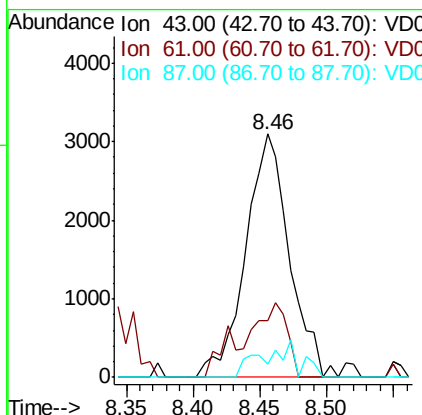
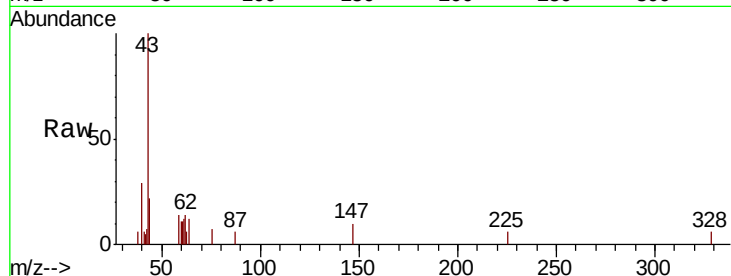
#43
Isopropyl Acetate
Concen: 3.260 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.4	25.7	38.5#
87	7.6	11.6	17.4#

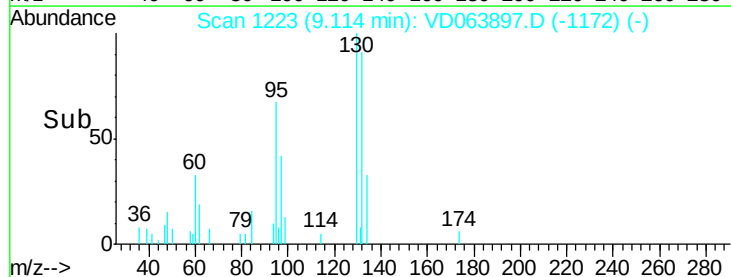
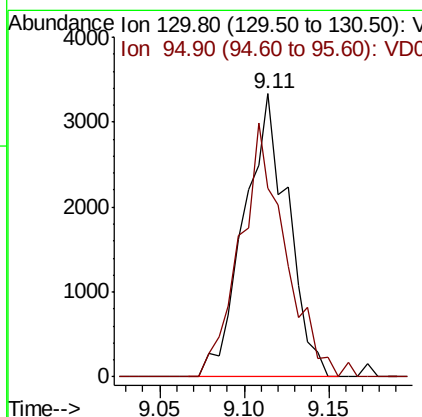
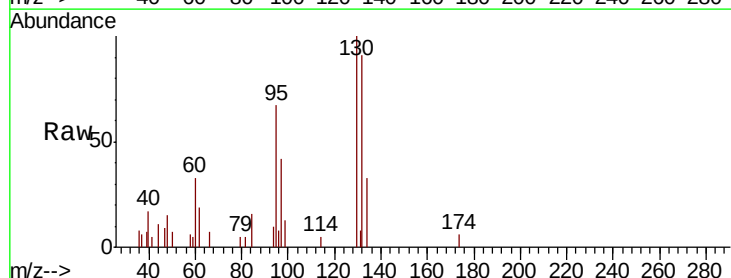
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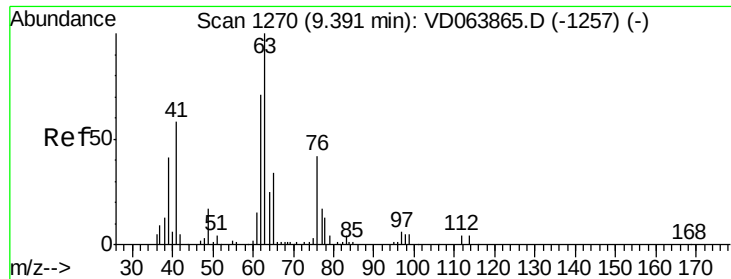
MMDadoda
10/10/2019 1:46:10 PM



#44
Trichloroethene
Concen: 2.843 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	66.7	0.0	175.6





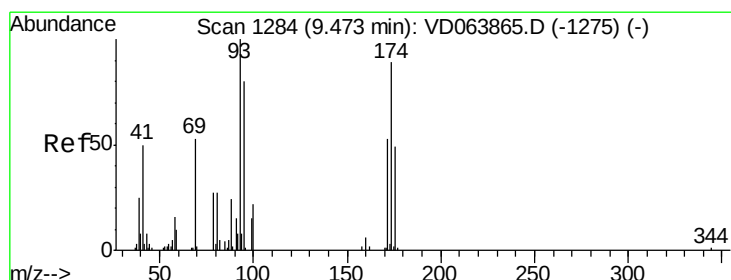
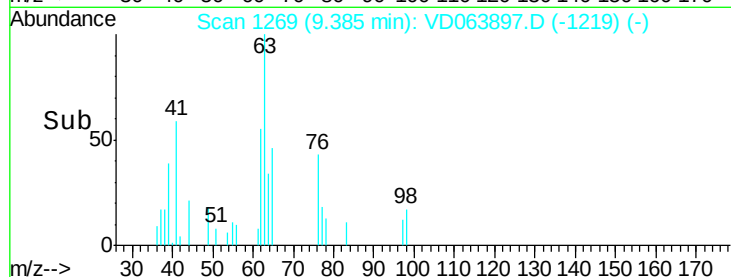
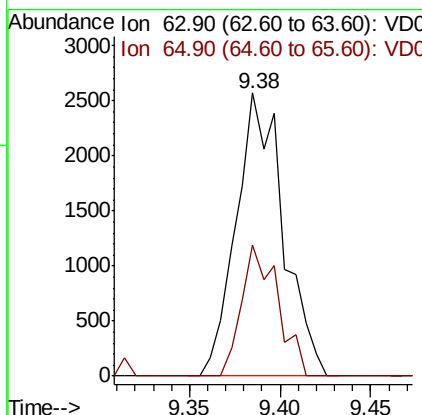
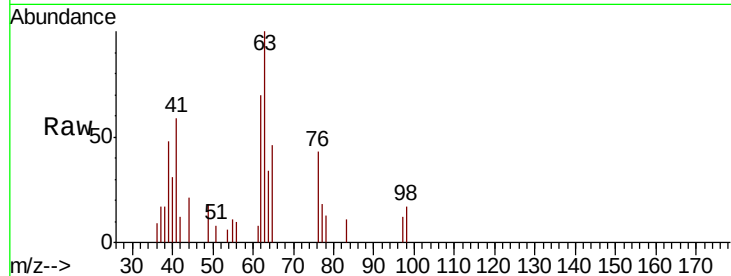
#45
 1,2-Dichloropropane
 Concen: 2.581 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 63 Resp: 4647
 Ion Ratio Lower Upper
 63 100
 65 46.4 27.3 40.9#

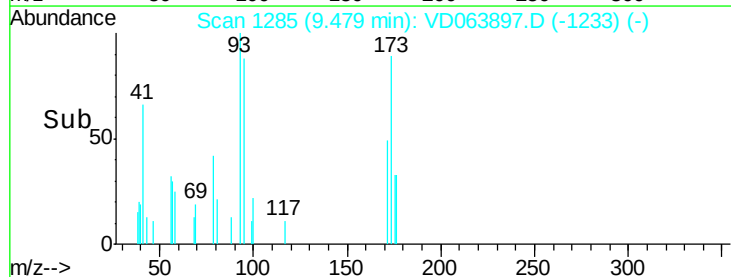
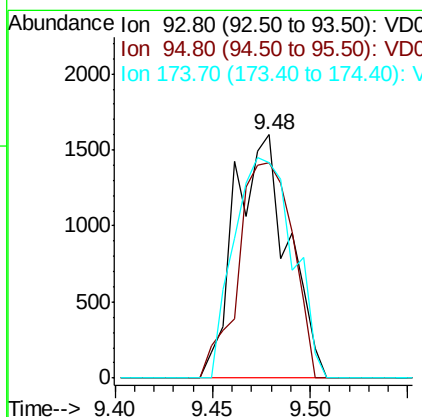
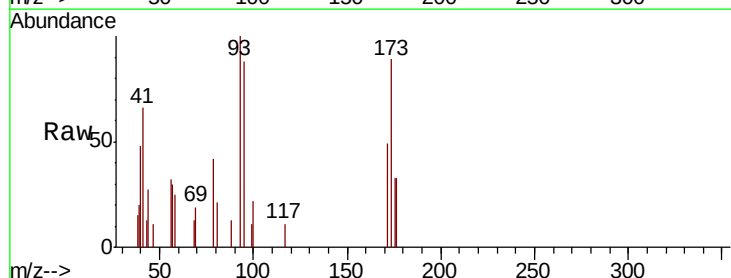
Manual Integrations
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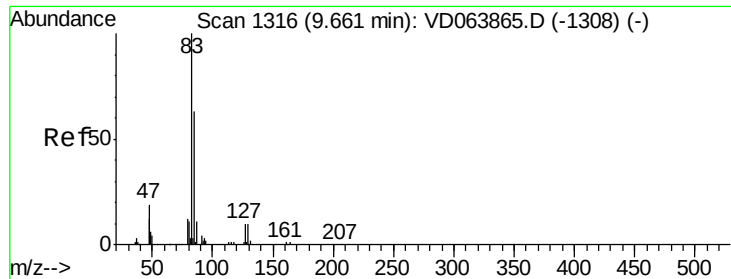
MMDadoda
 10/10/2019 1:46:10 PM



#46
 Dibromomethane
 Concen: 2.968 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion: 93 Resp: 3044
 Ion Ratio Lower Upper
 93 100
 95 89.8 66.0 99.0
 174 100.0 83.4 125.0





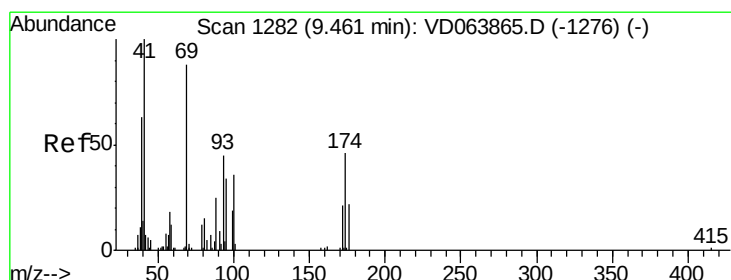
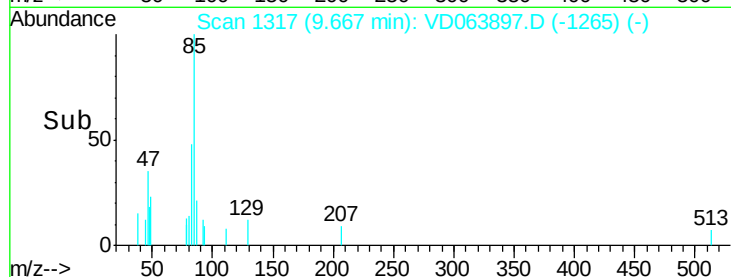
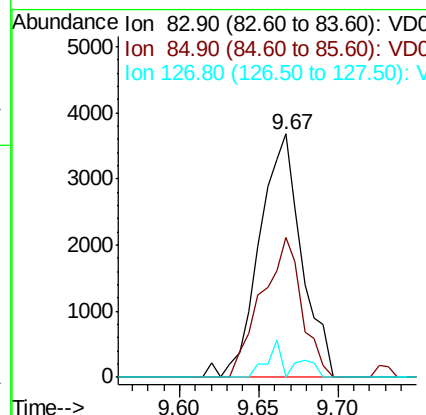
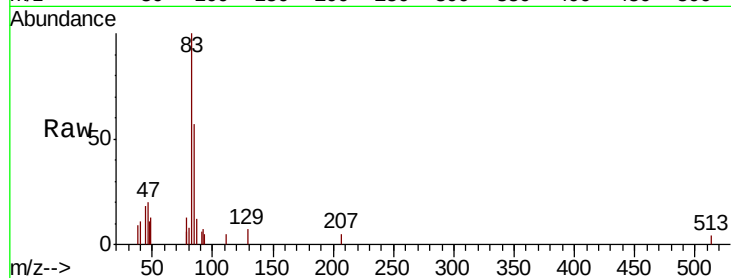
#47
Bromodichloromethane
Concen: 2.577 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
83	100		
85	57.5	50.2	75.2
127	0.0	7.6	11.4

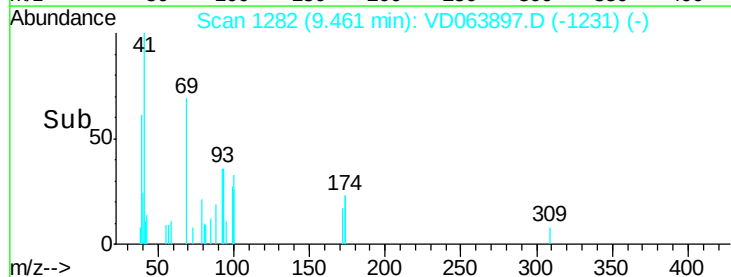
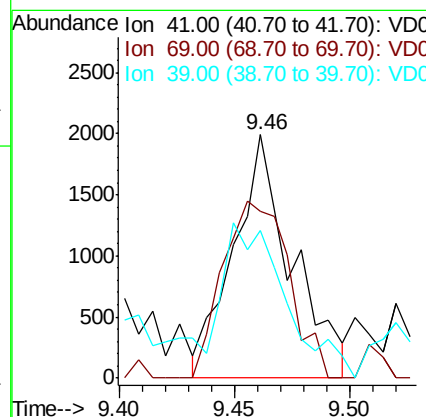
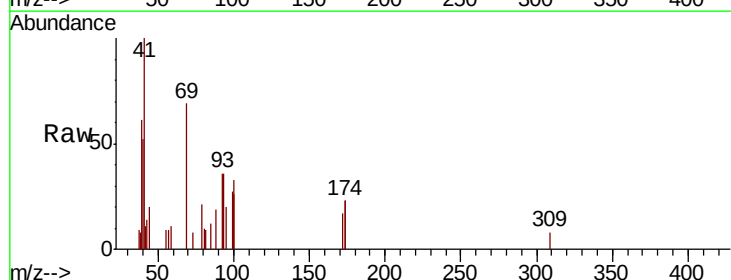
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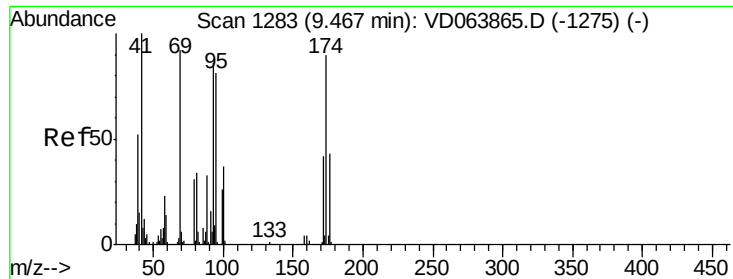
MMDadoda
10/10/2019 1:46:10 PM



#48
Methyl methacrylate
Concen: 3.404 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
41	100		
69	82.2	75.1	112.7
39	67.6	50.2	75.2





#49

1,4-Dioxane

Concen: 62.438 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

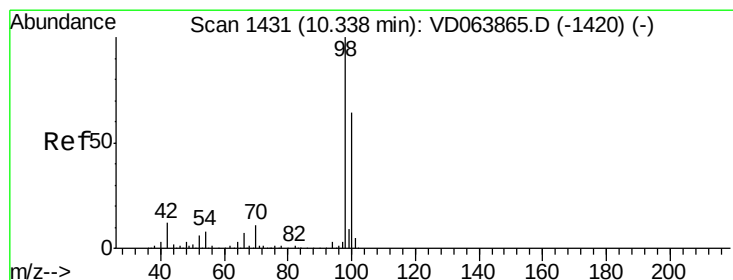
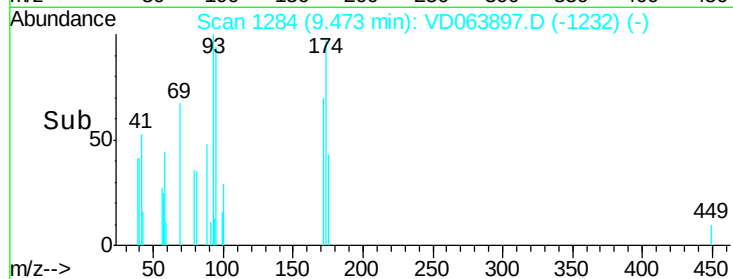
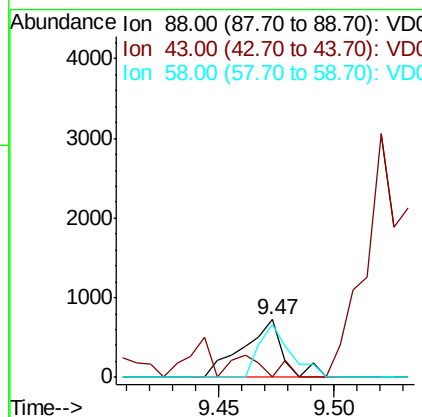
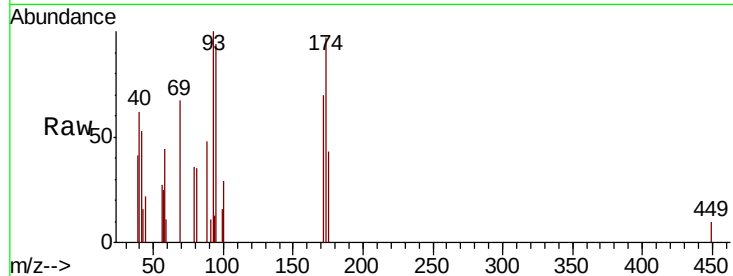
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	18.9	27.6	41.4#
58	72.5	54.1	81.1

Manual Integrations
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#50

Toluene-d8

Concen: 54.222 ug/l

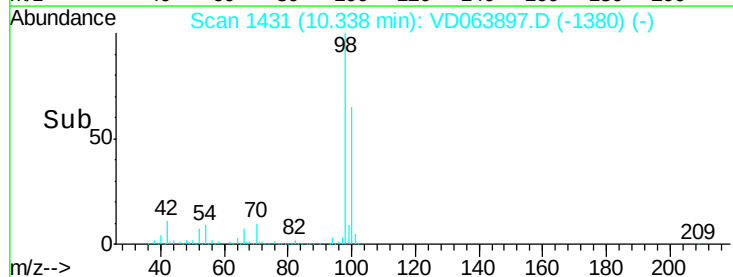
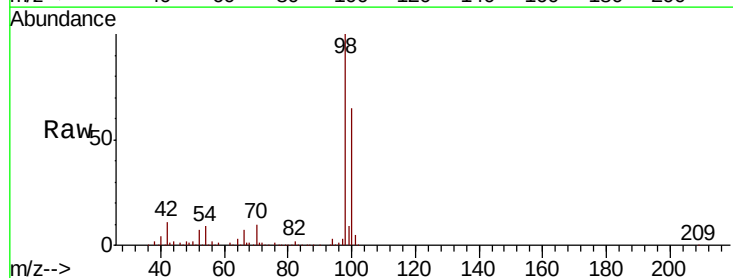
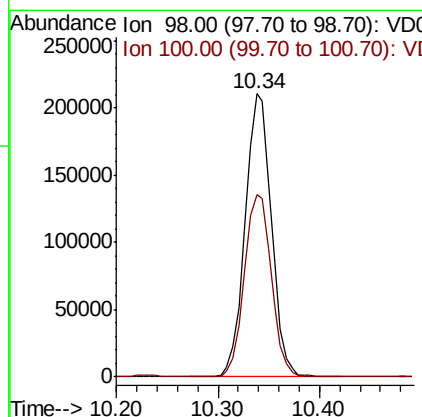
RT: 10.34 min Scan# 1431

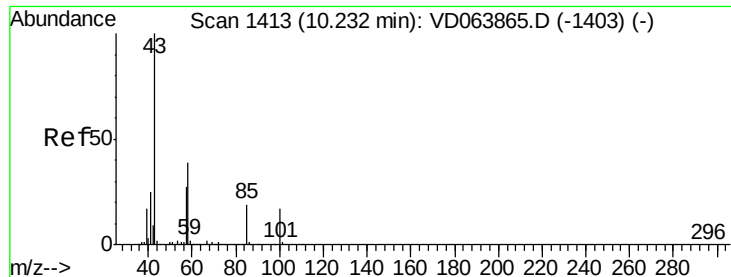
Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.1	78.1





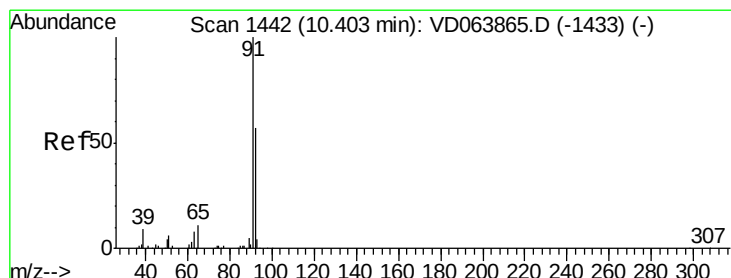
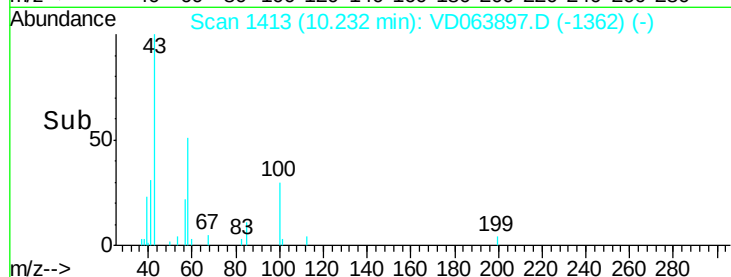
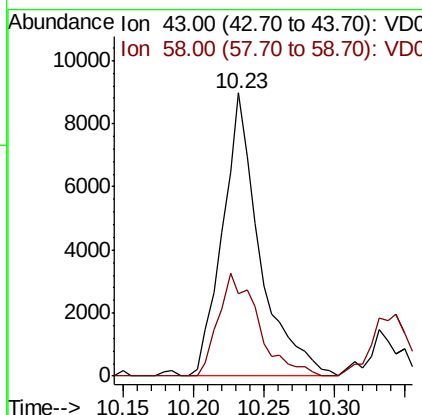
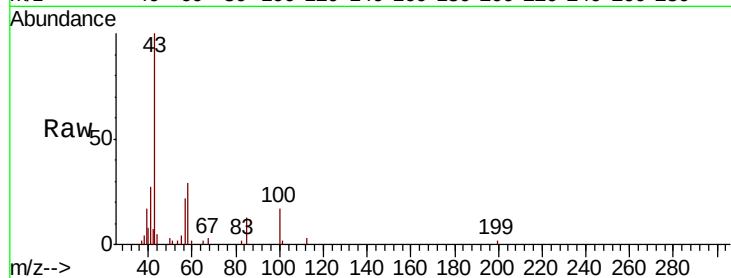
#51
4-Methyl-2-Pentanone
Concen: 14.704 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.4	33.0	49.4

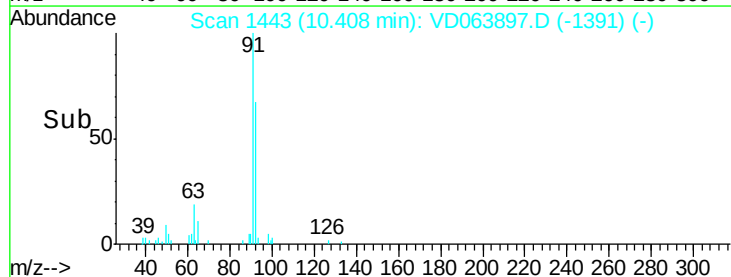
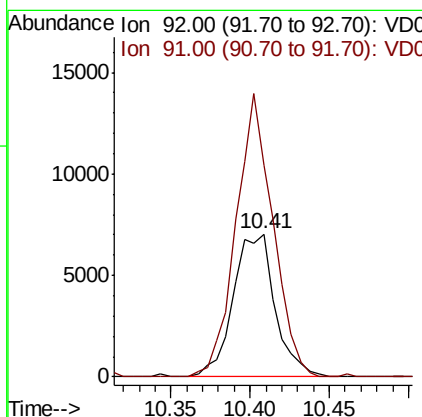
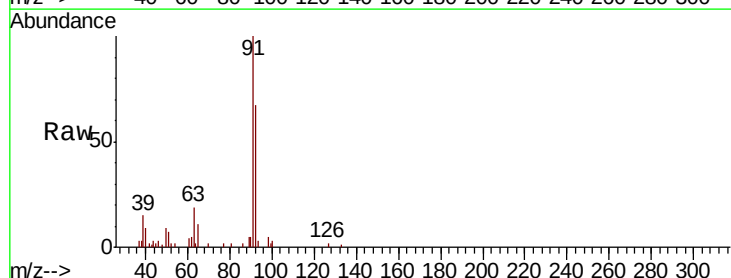
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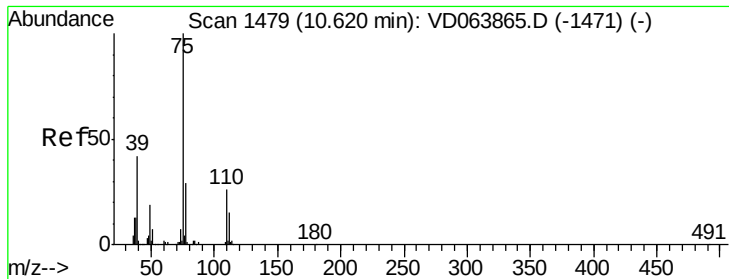
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#52
Toluene
Concen: 2.552 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.9	139.5	209.3





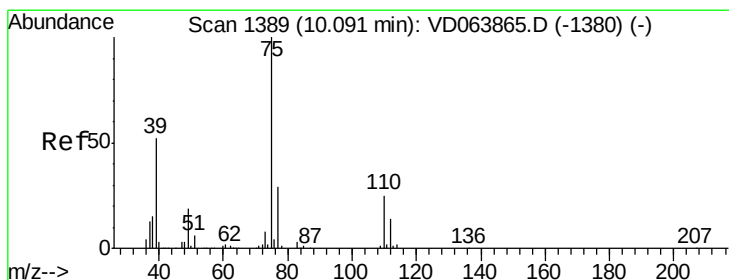
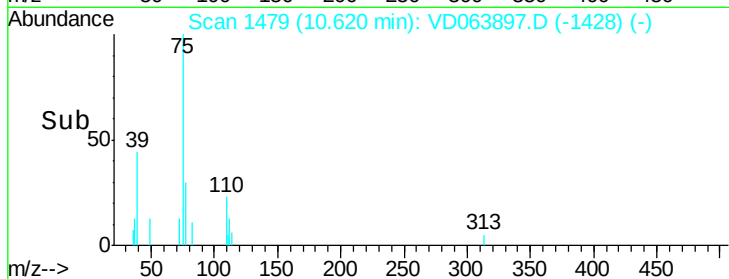
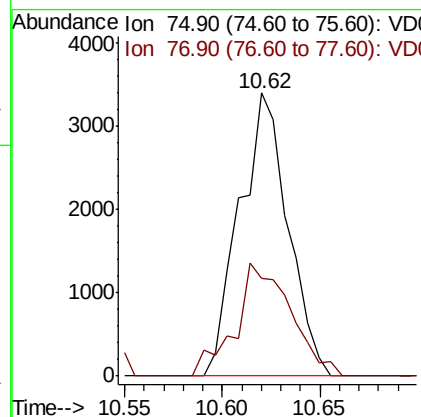
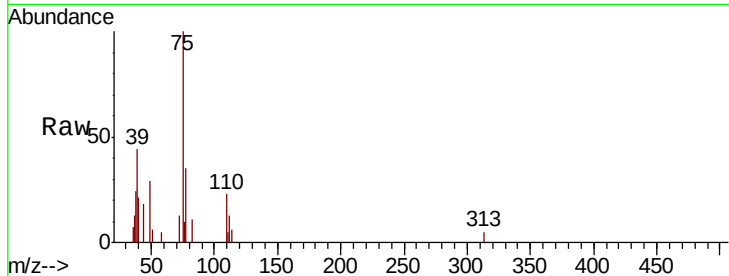
#53
t-1,3-Dichloropropene
Concen: 2.269 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 75 Resp: 5845
Ion Ratio Lower Upper
75 100
77 34.5 22.8 34.2#

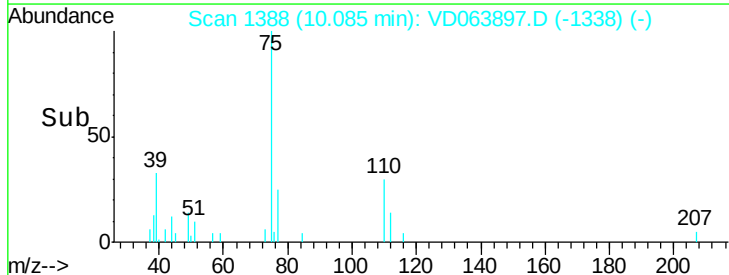
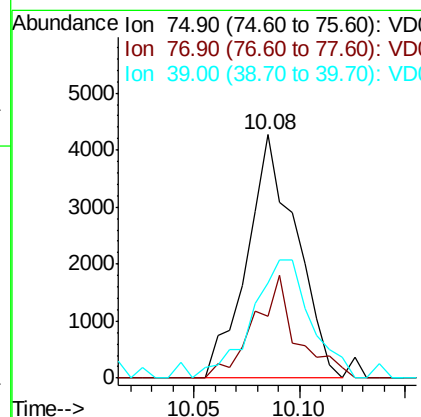
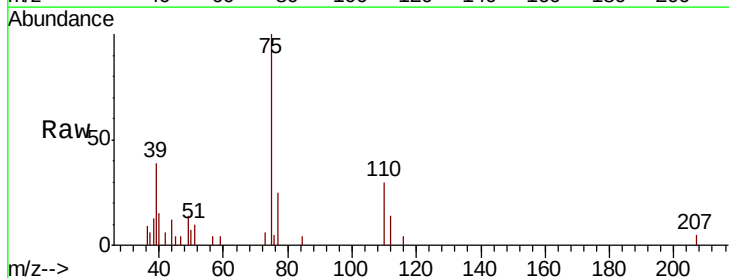
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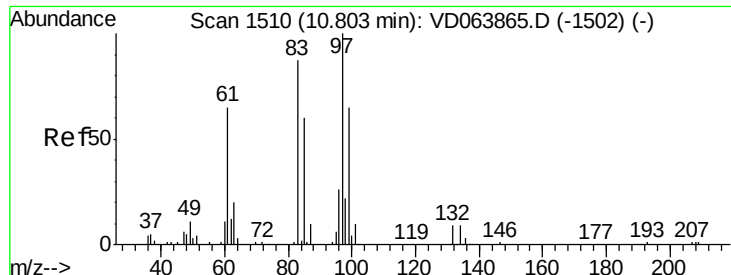
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#54
cis-1,3-Dichloropropene
Concen: 2.345 ug/l
RT: 10.08 min Scan# 1388
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion: 75 Resp: 6954
Ion Ratio Lower Upper
75 100
77 25.2 23.2 34.8
39 39.2 41.5 62.3#





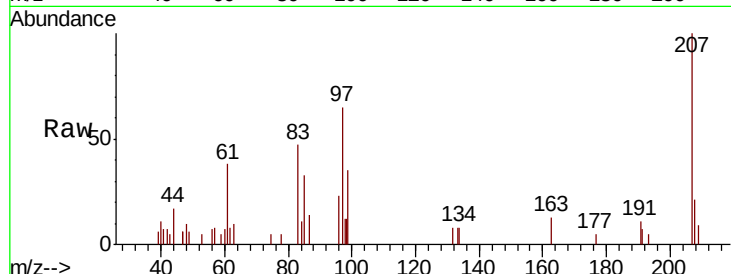
#55
 1,1,2-Trichloroethane
 Concen: 2.585 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

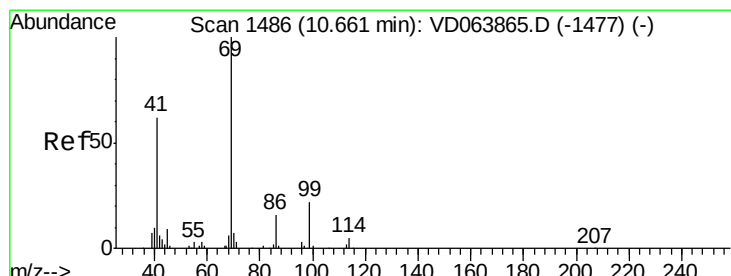
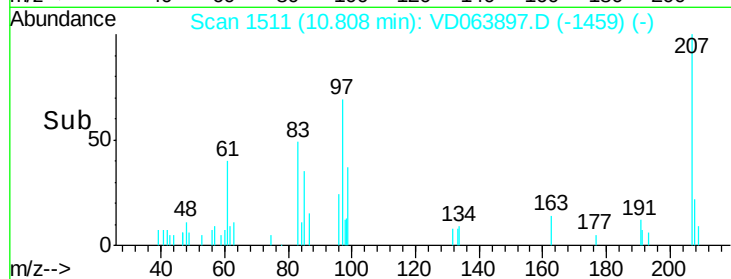
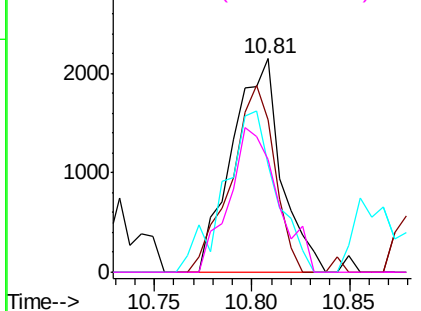
Tot Ion	Ratio	Lower	Upper
97	100		
83	71.3	69.7	104.5
85	50.5	48.1	72.1
99	53.0	51.9	77.9

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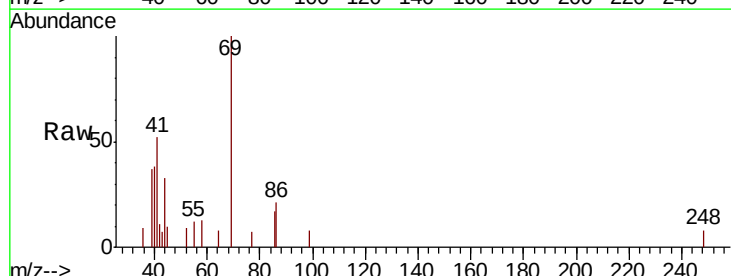


Abundance Ion 96.90 (96.60 to 97.60): VDC
 Ion 82.90 (82.60 to 83.60): VDC
 Ion 84.90 (84.60 to 85.60): VDC
 Ion 98.90 (98.60 to 99.60): VDC

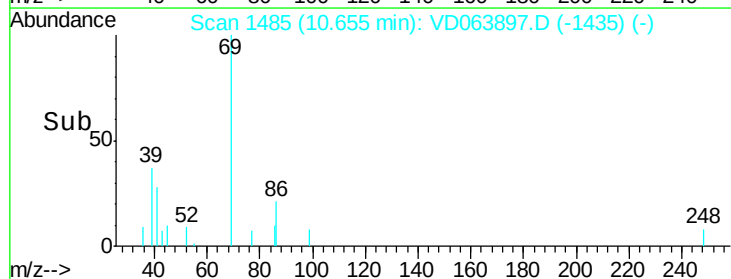
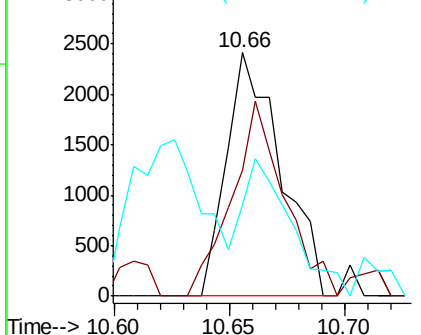


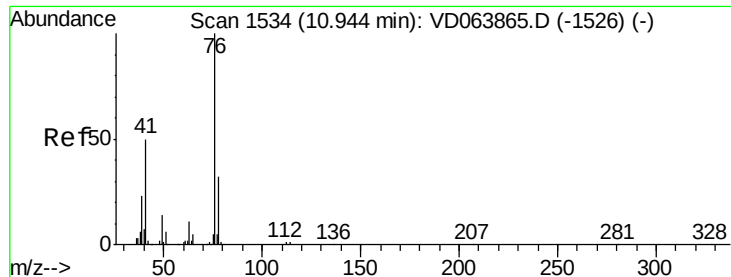
#56
 Ethyl methacrylate
 Concen: 2.157 ug/l
 RT: 10.66 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
69	100		
41	77.6	51.3	76.9#
39	50.9	28.0	42.0#



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





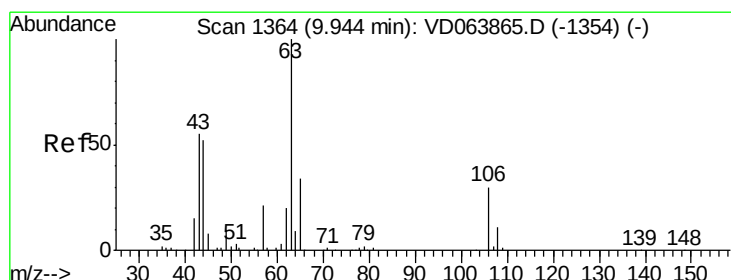
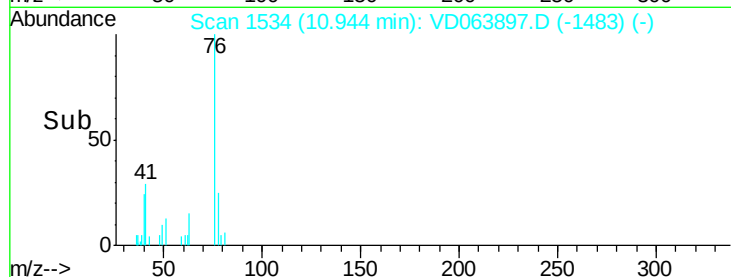
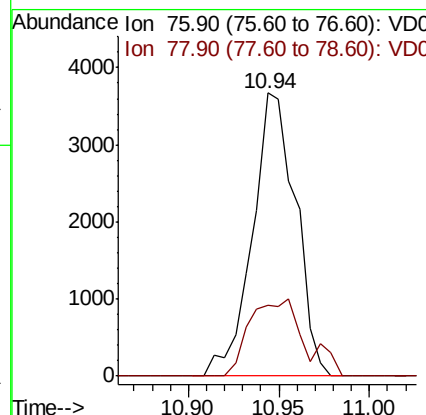
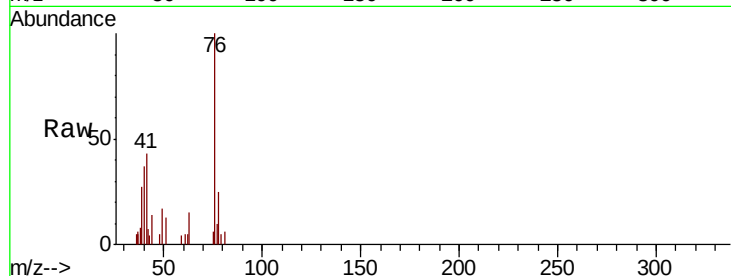
#57
 1,3-Dichloropropane
 Concen: 2.464 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
76	100		
78	34.5	26.6	40.0

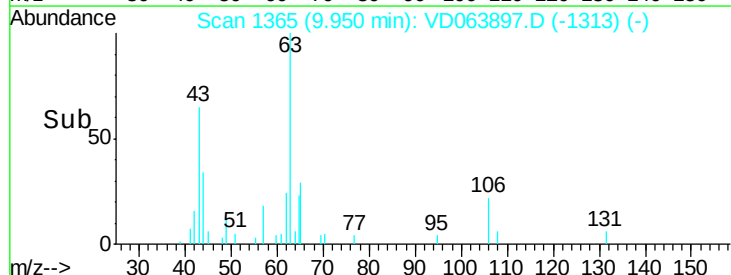
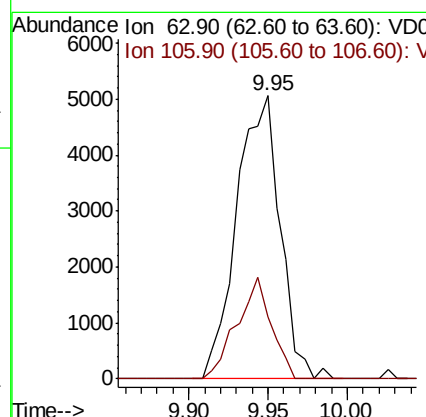
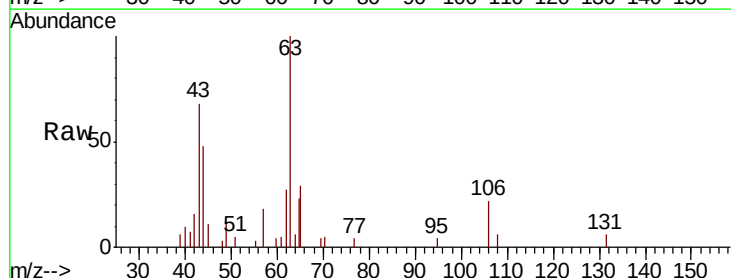
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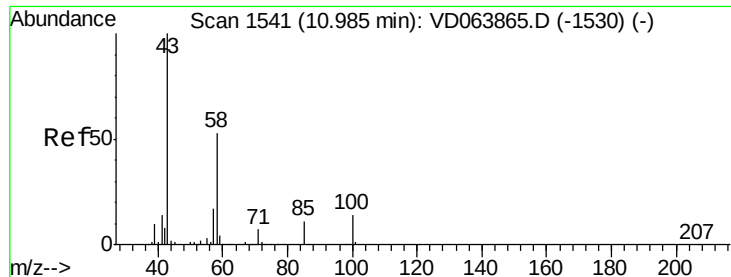
MMDadoda
 10/10/2019 1:46:10 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.188 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.4	24.3	36.5





#59

2-Hexanone

Concen: 13.000 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 43 Resp: 10500

Ion Ratio Lower Upper

43 100

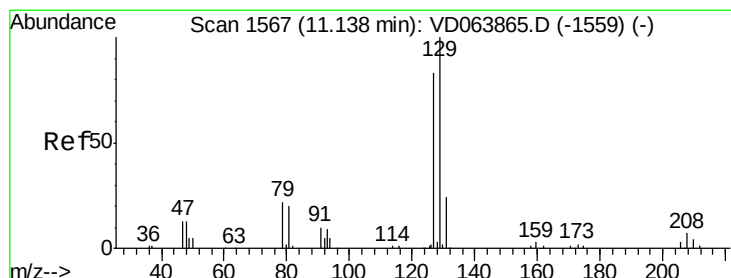
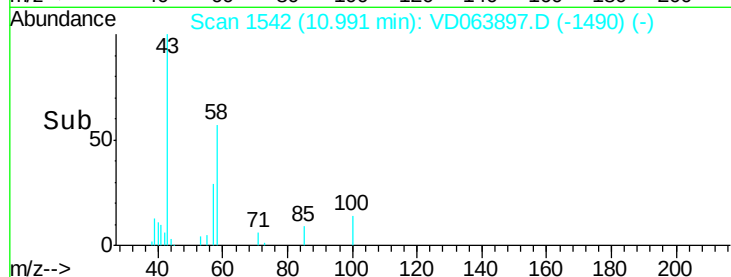
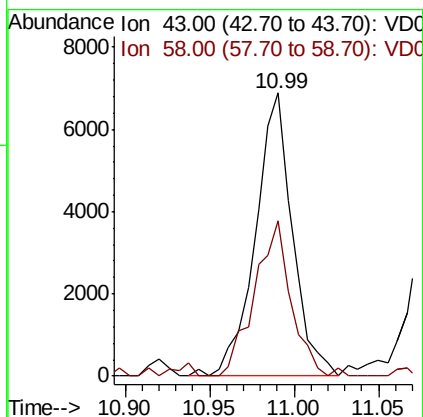
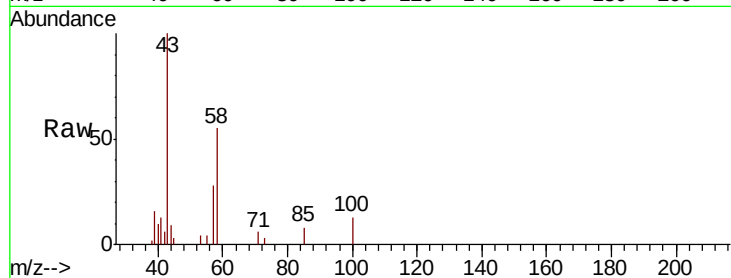
58 54.5 27.7 83.0

Manual Integrations

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#60

Dibromochloromethane

Concen: 2.455 ug/l

RT: 11.14 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VD063897.D

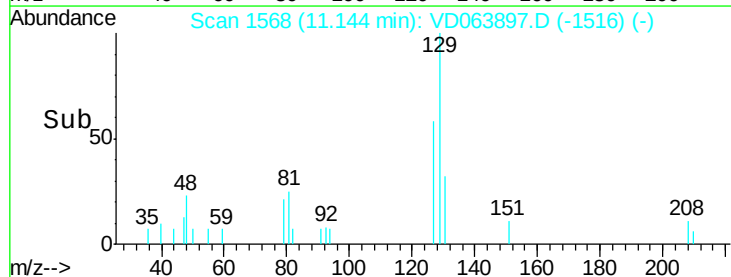
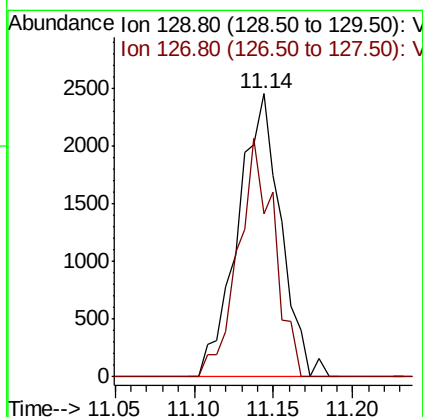
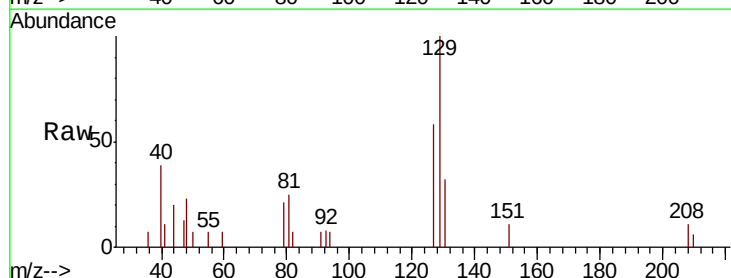
Acq: 07 Oct 2019 13:39

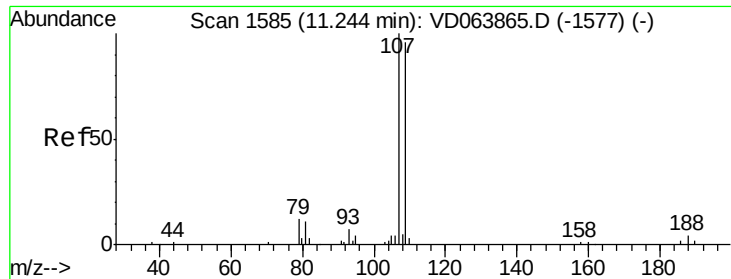
Tgt Ion: 129 Resp: 4628

Ion Ratio Lower Upper

129 100

127 70.2 39.9 119.6





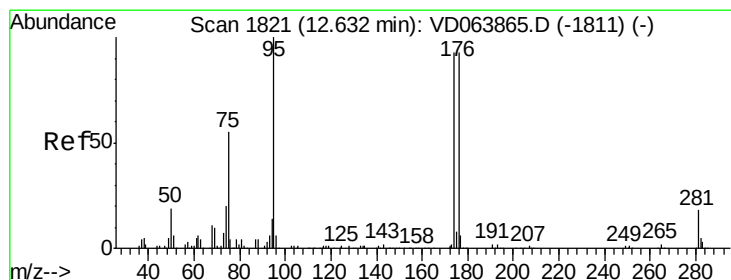
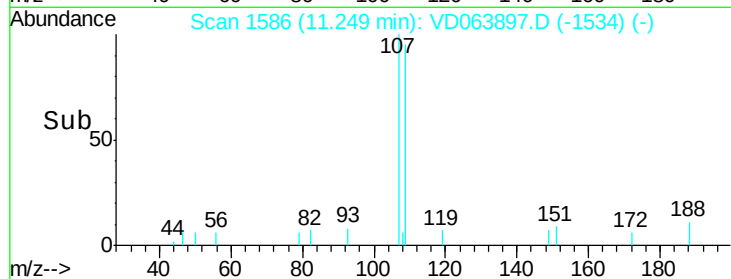
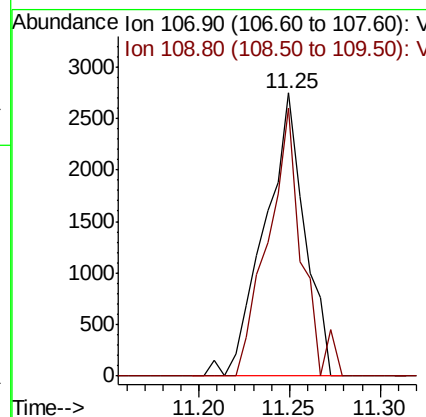
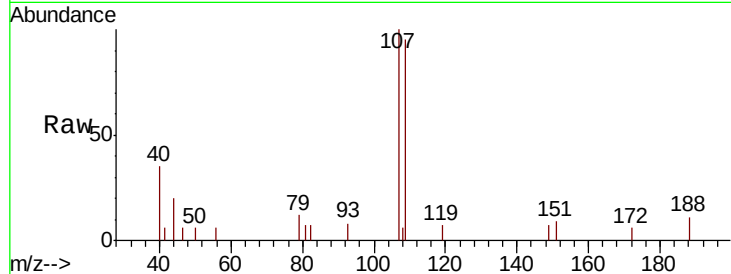
#61
 1,2-Dibromoethane
 Concen: 3.008 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 107 Resp: 4223
 Ion Ratio Lower Upper
 107 100
 109 79.7 75.2 112.8

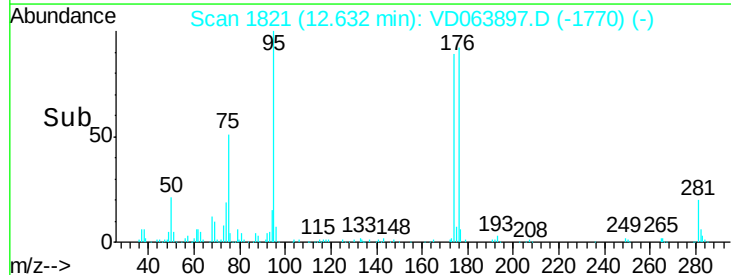
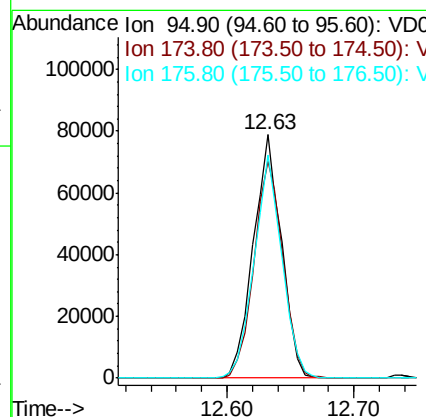
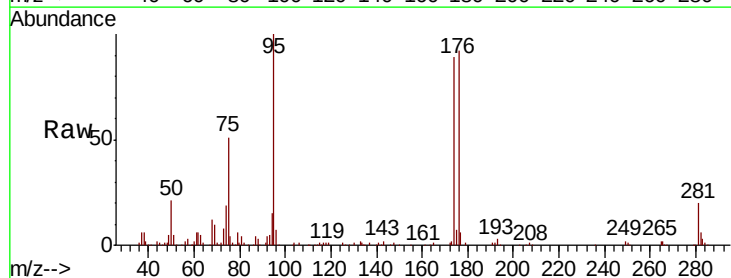
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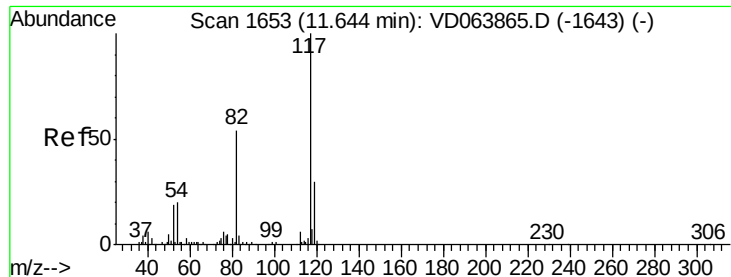
MMDadoda
 10/10/2019 1:46:10 PM



#62
 4-Bromofluorobenzene
 Concen: 50.357 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion: 95 Resp: 121869
 Ion Ratio Lower Upper
 95 100
 174 91.8 0.0 186.4
 176 91.0 0.0 184.2





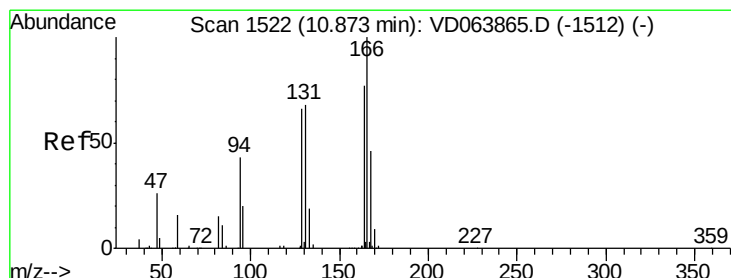
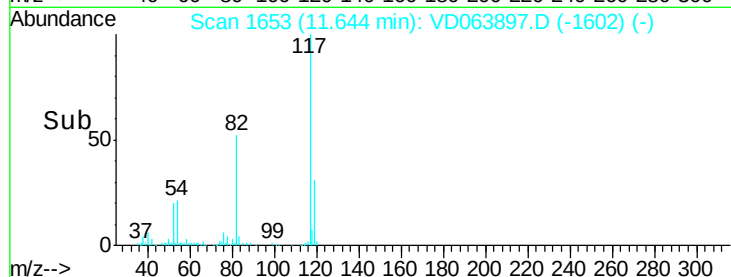
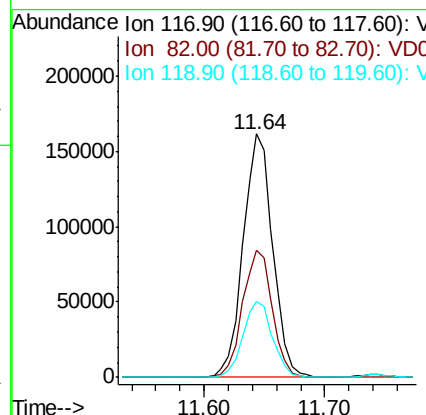
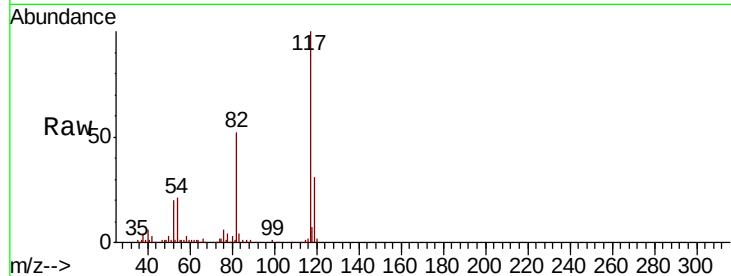
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.8	64.2
119	31.4	24.4	36.6

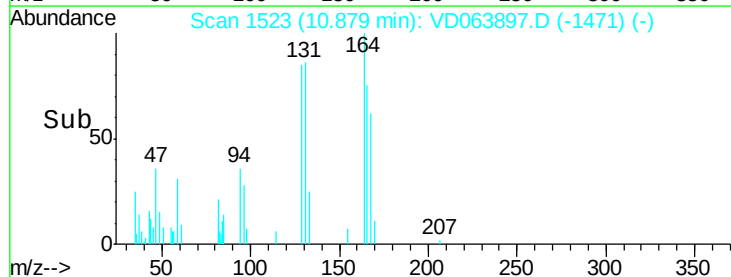
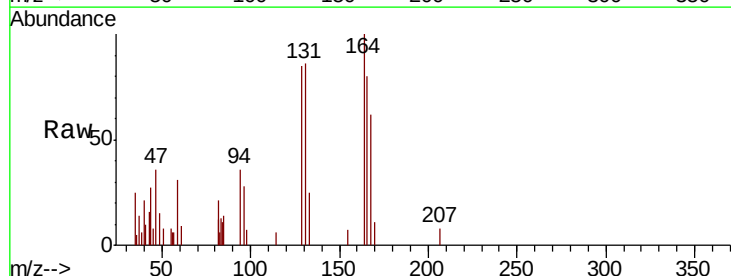
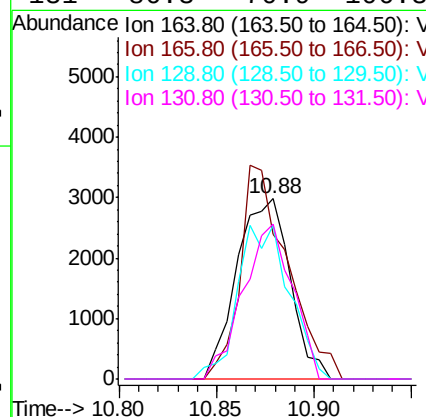
Manual Integrations
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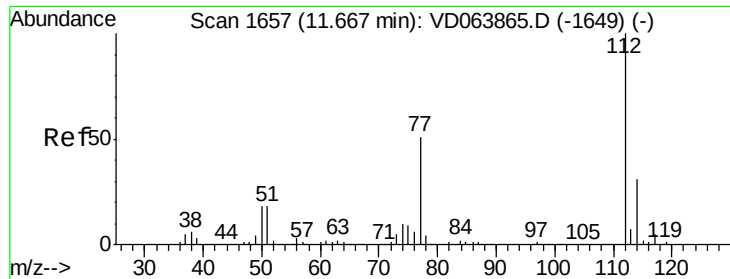
MMDadoda
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#64
Tetrachloroethene
Concen: 3.014 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	80.4	103.8	155.6#
129	85.0	68.9	103.3
131	86.3	70.9	106.3





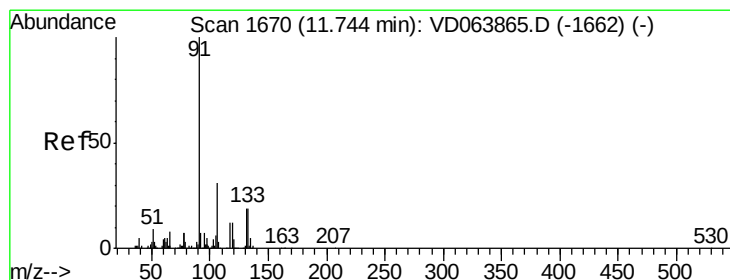
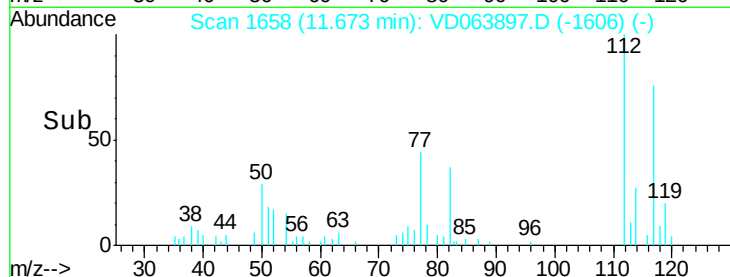
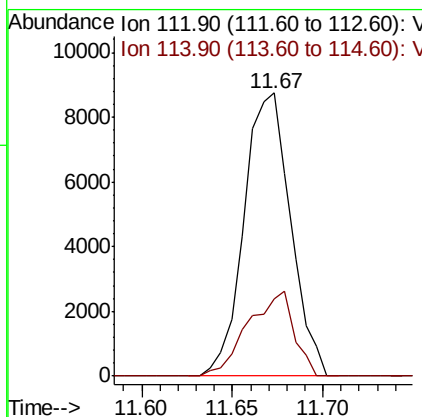
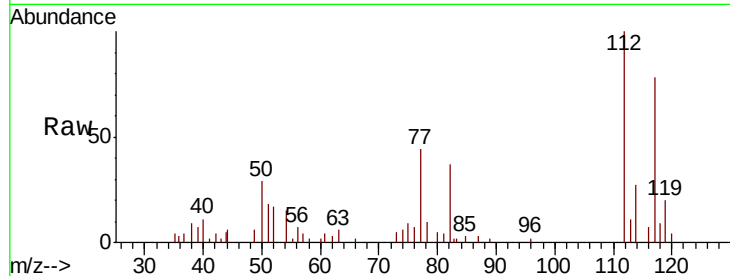
#65
Chlorobenzene
Concen: 2.830 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:112 Resp: 15624
Ion Ratio Lower Upper
112 100
114 27.1 25.1 37.7

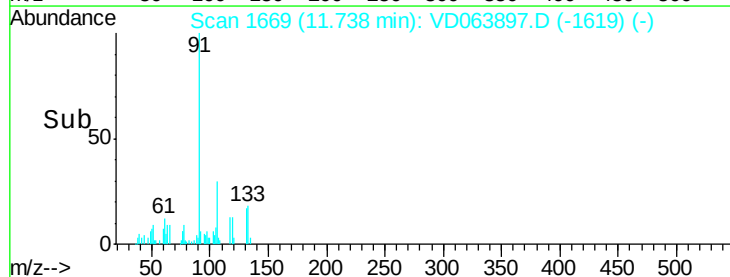
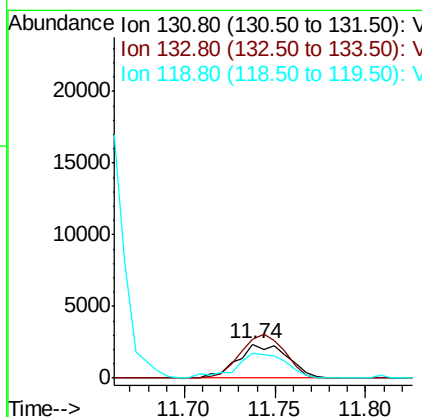
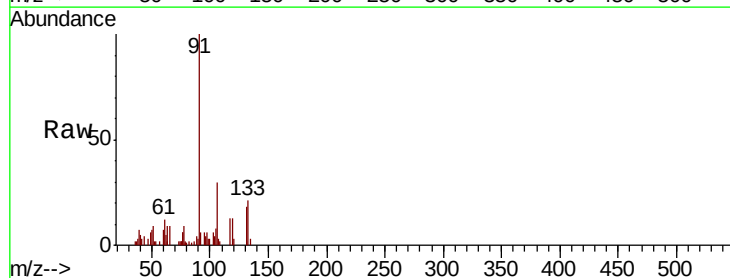
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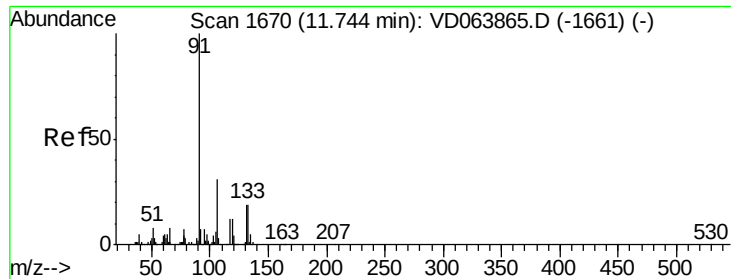
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.232 ug/l
RT: 11.74 min Scan# 1669
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion:131 Resp: 4541
Ion Ratio Lower Upper
131 100
133 114.7 48.9 146.7
119 72.9 32.6 97.8





#67

Ethyl Benzene

Concen: 2.473 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 91 Resp: 24617

Ion Ratio Lower Upper

91 100

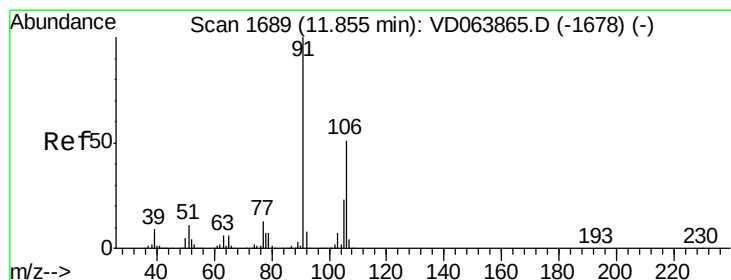
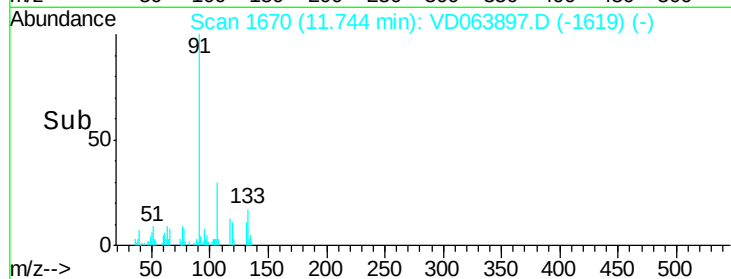
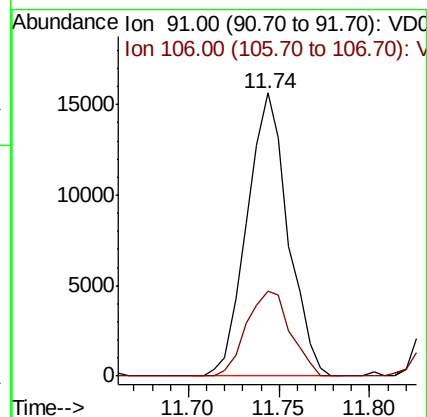
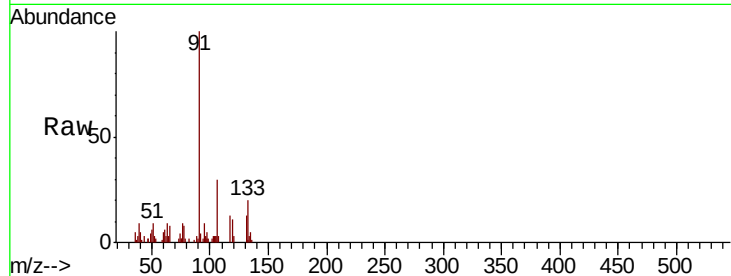
106 29.9 24.6 37.0

Manual Integrations

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#68

m/p-Xylenes

Concen: 4.779 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD063897.D

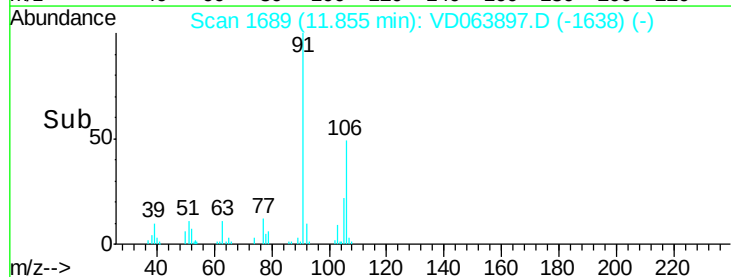
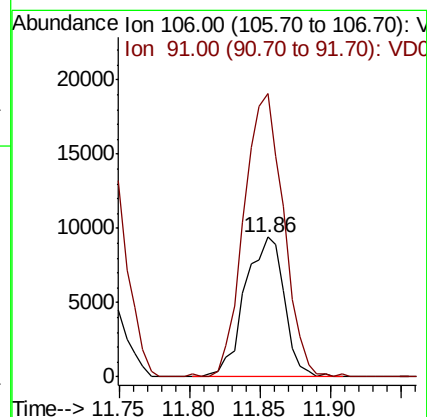
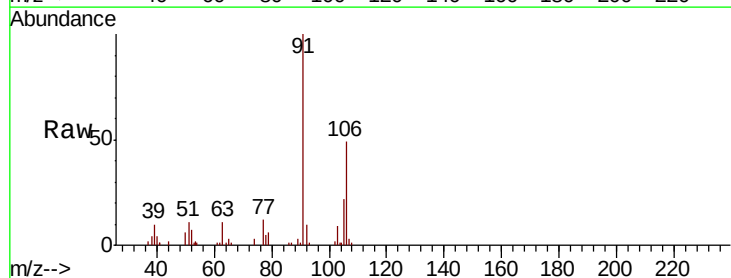
Acq: 07 Oct 2019 13:39

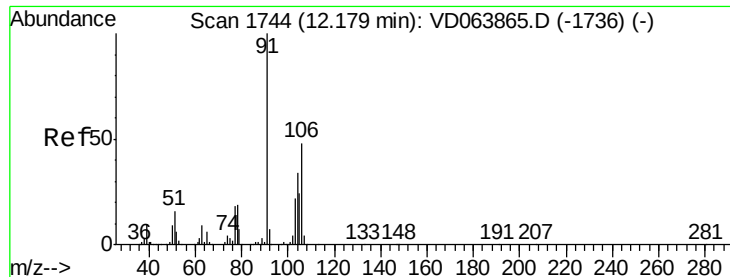
Tgt Ion: 106 Resp: 18366

Ion Ratio Lower Upper

106 100

91 203.3 154.8 232.2





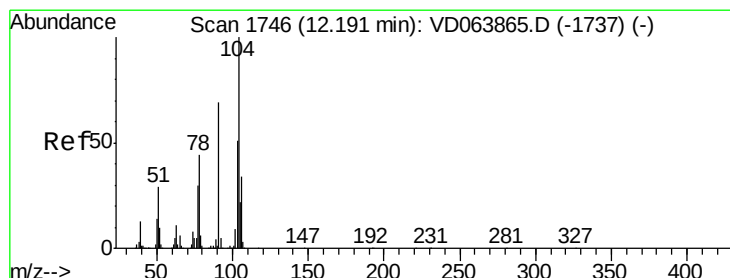
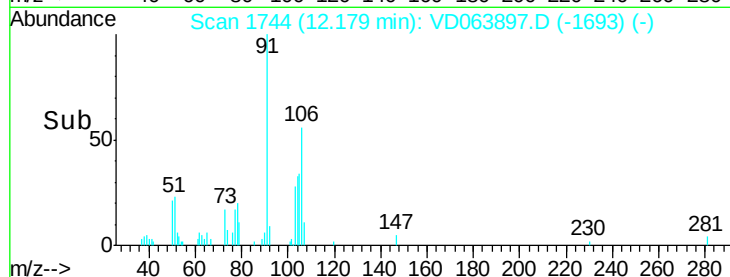
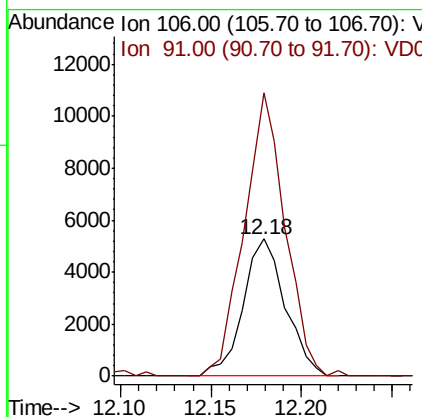
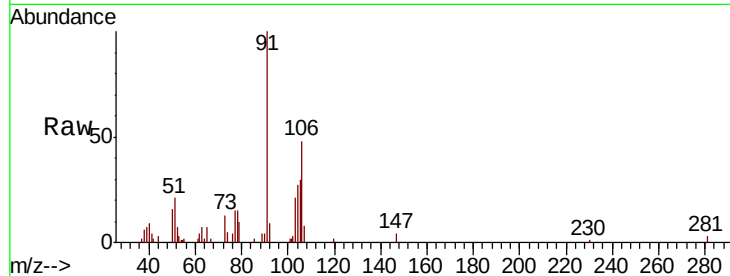
#69
o-Xylene
Concen: 2.322 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:106 Resp: 8545
Ion Ratio Lower Upper
106 100
91 200.1 103.9 311.7

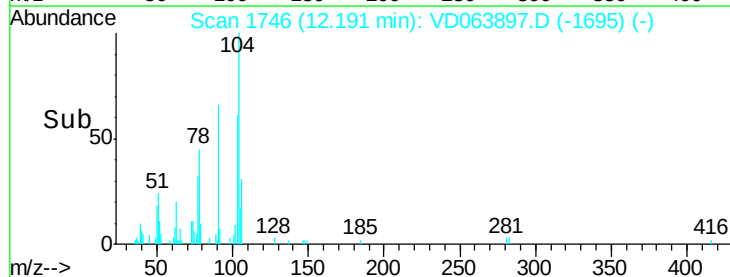
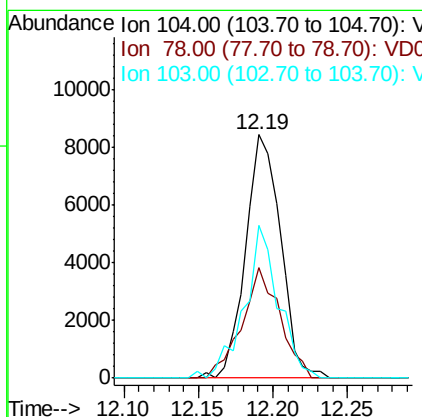
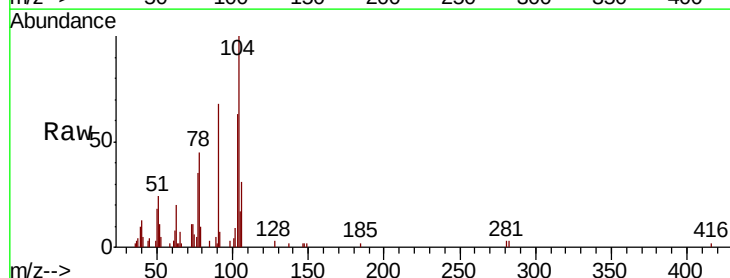
Manual Integrations
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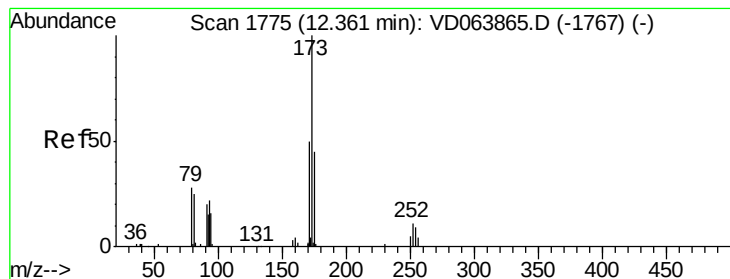
MMDadoda
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#70
Styrene
Concen: 2.192 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion:104 Resp: 13656
Ion Ratio Lower Upper
104 100
78 49.3 37.0 55.4
103 61.1 44.2 66.4





#71

Bromoform

Concen: 2.484 ug/l

RT: 12.36 min Scan# 1774

Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

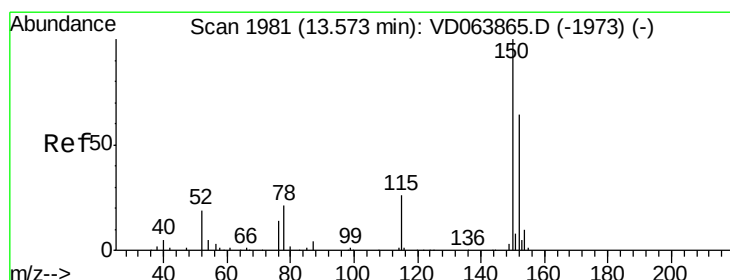
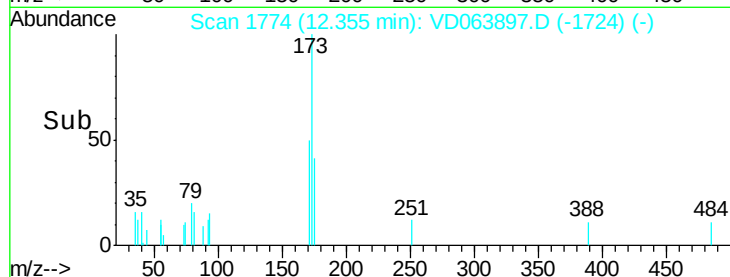
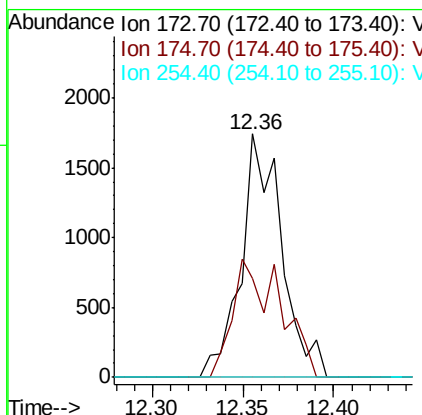
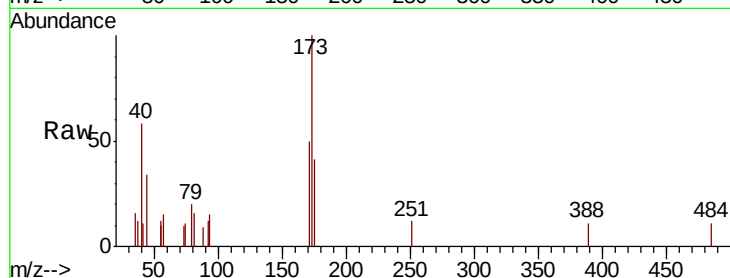
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	173	Resp:	2712
Ion Ratio	Lower	Upper	
173	100		
175	57.4	24.6	74.0
254	0.0	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

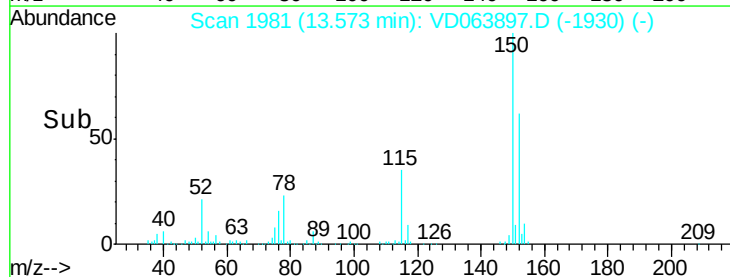
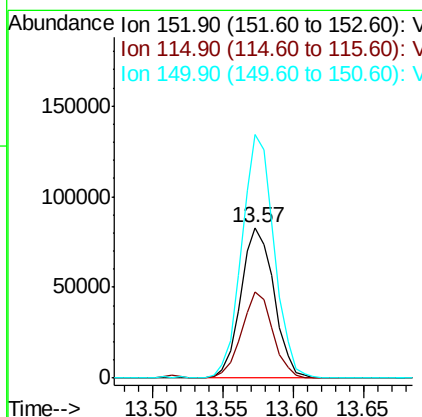
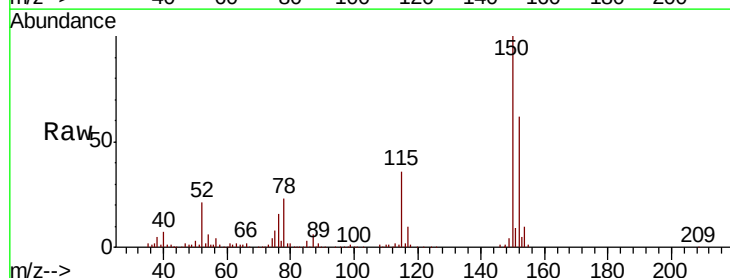
RT: 13.57 min Scan# 1981

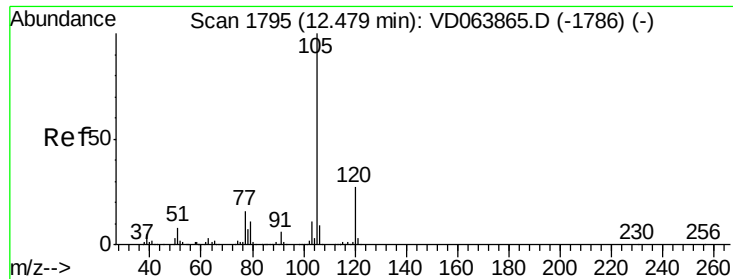
Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion:	152	Resp:	136035
Ion Ratio	Lower	Upper	
152	100		
115	54.1	25.9	77.7
150	157.9	0.0	344.2





#73

Isopropylbenzene

Concen: 2.485 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion: 105 Resp: 22724

Ion Ratio Lower Upper

105 100

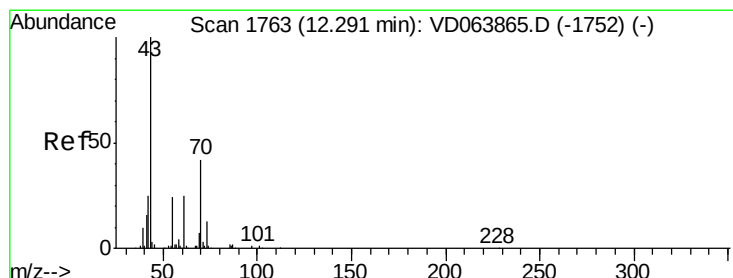
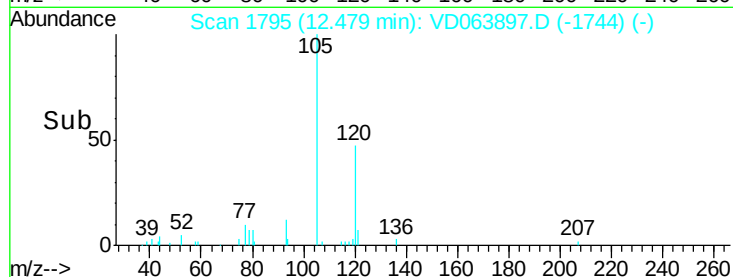
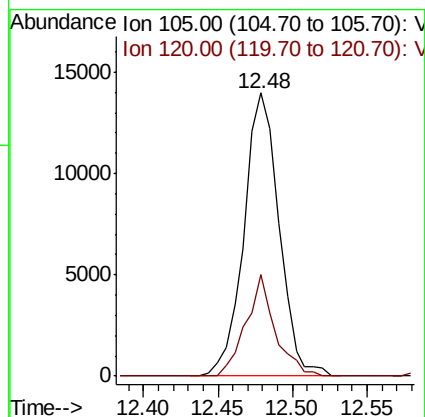
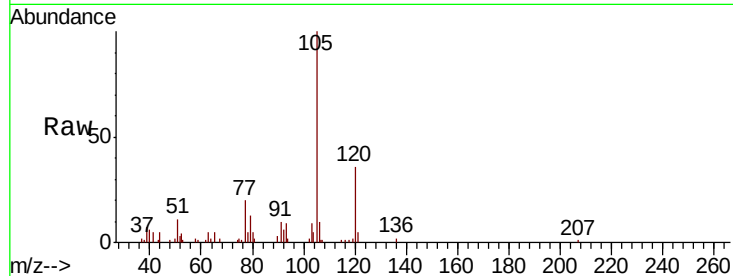
120 29.8 13.3 39.8

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#74

N-ethyl acetate

Concen: 2.804 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion: 43 Resp: 5520

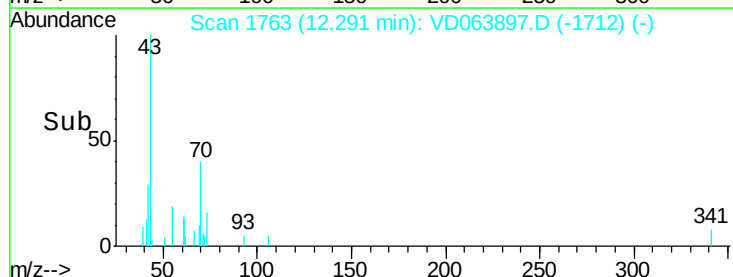
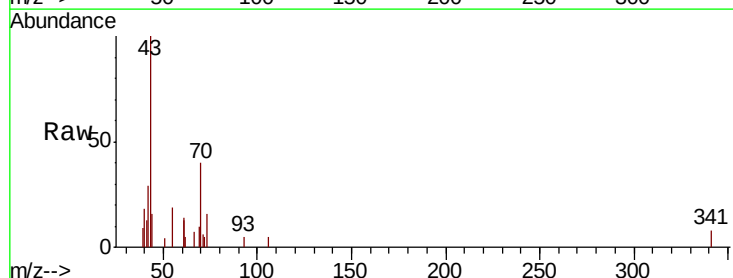
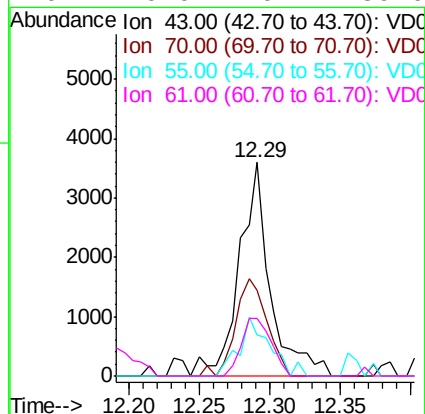
Ion Ratio Lower Upper

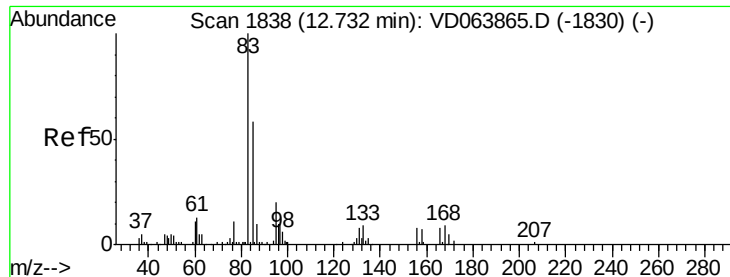
43 100

70 46.4 35.8 53.6

55 27.5 19.4 29.0

61 26.0 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 2.930 ug/l

RT: 12.73 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

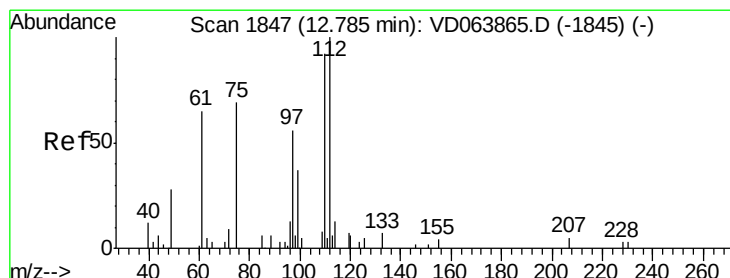
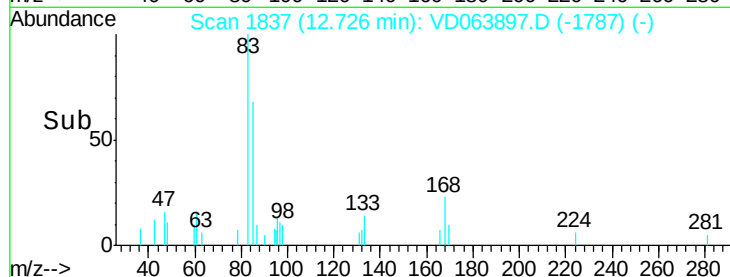
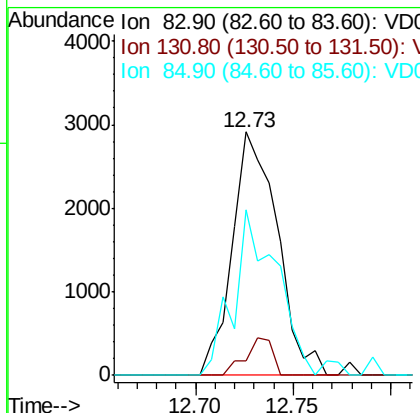
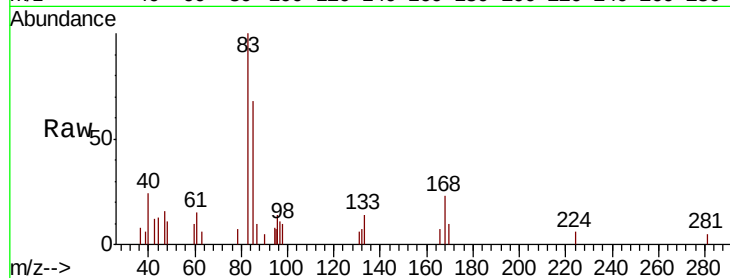
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	83	Resp:	4663
Ion Ratio	Lower	Upper	
83	100		
131	9.3	5.6	16.8
85	65.1	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 1.678 ug/l m

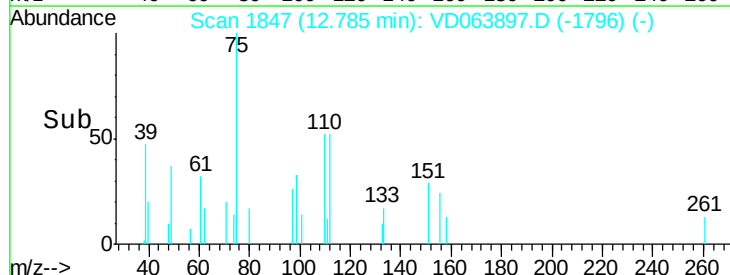
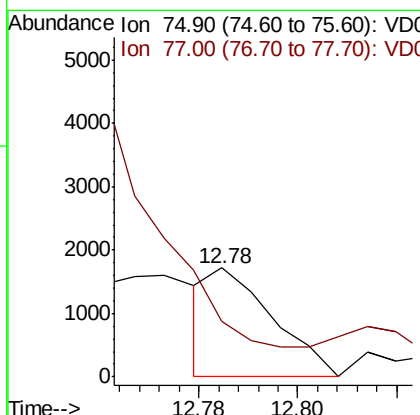
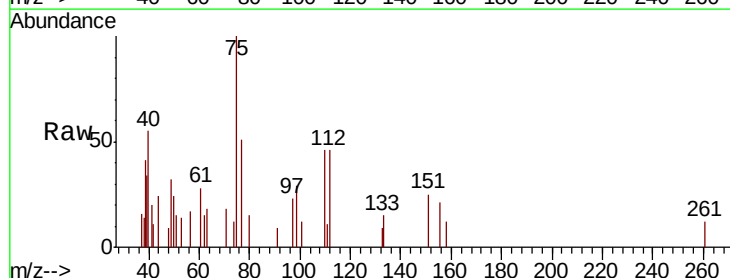
RT: 12.78 min Scan# 1847

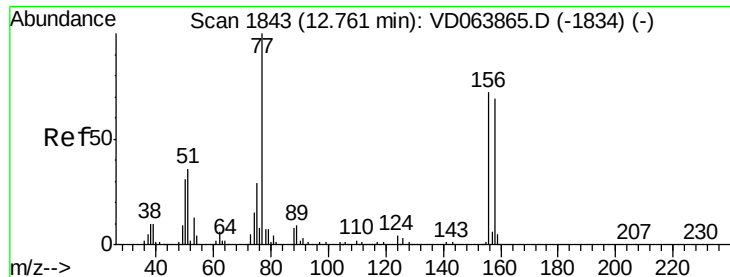
Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion:	75	Resp:	1529
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





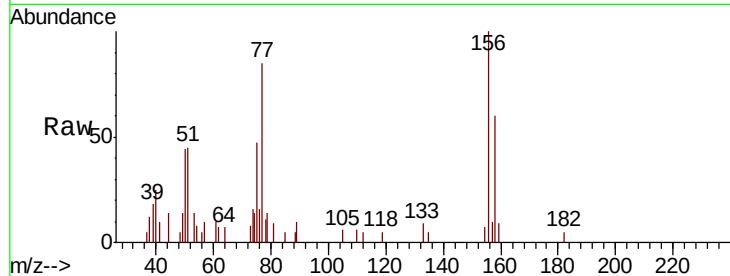
#77
Bromobenzene
Concen: 2.475 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

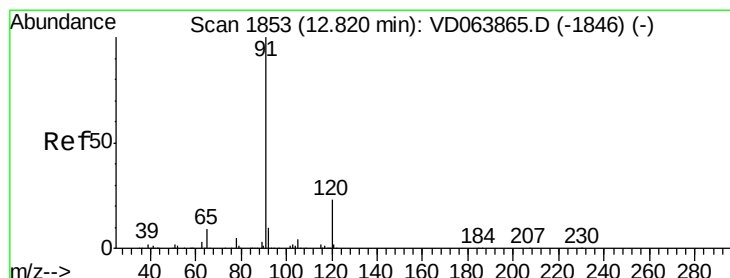
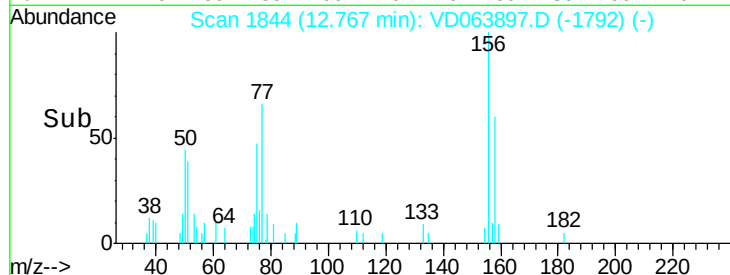
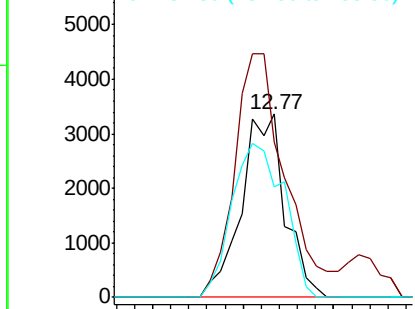
Tot Ion	Ratio	Lower	Upper
156	100		
77	152.1	80.3	241.0
158	100.1	47.4	142.2

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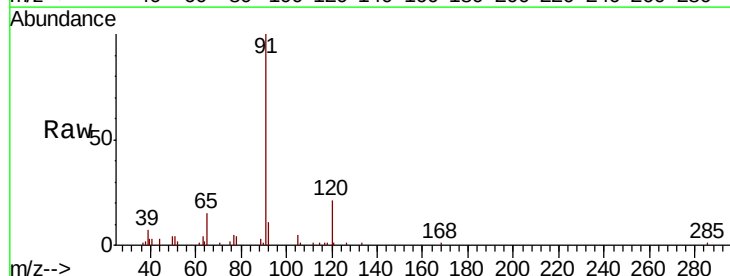


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VDC
Ion 157.80 (157.50 to 158.50): V

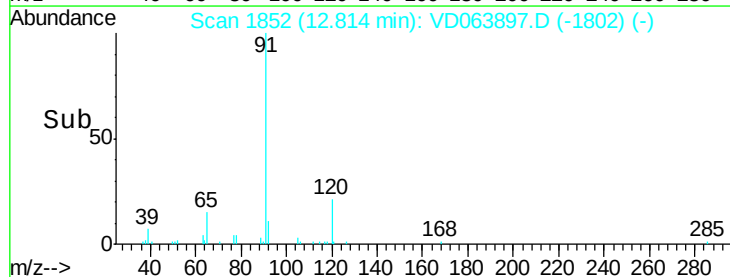
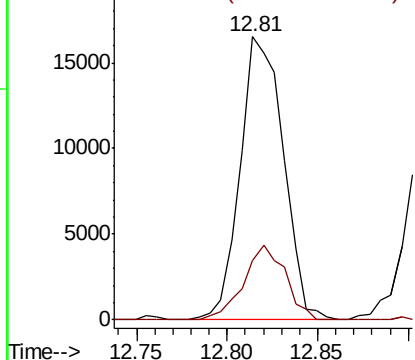


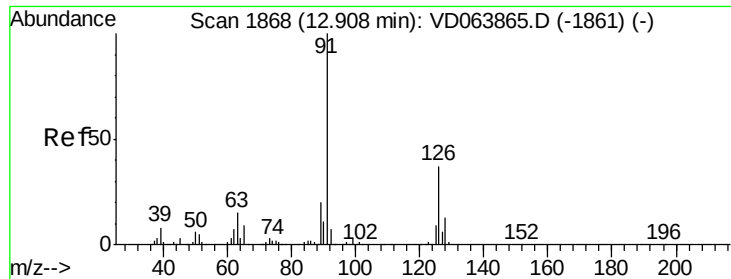
#78
n-propylbenzene
Concen: 2.548 ug/l
RT: 12.81 min Scan# 1852
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	25.4	12.0	36.0



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.00 (119.70 to 120.70): V





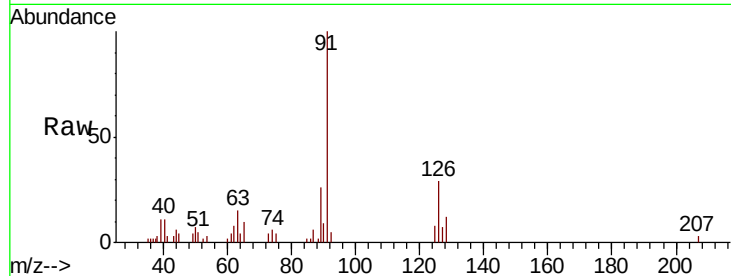
#79
2-Chlorotoluene
Concen: 2.509 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

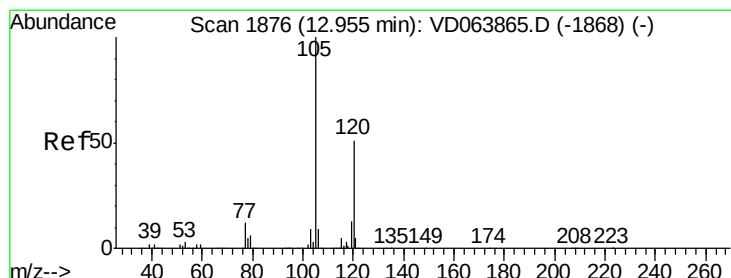
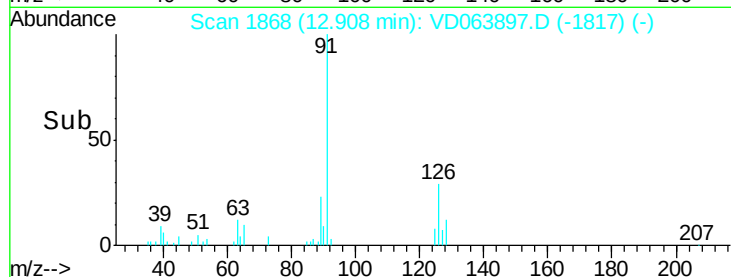
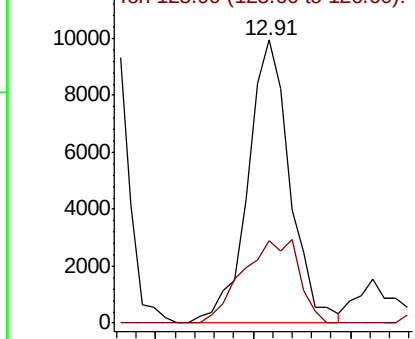
Tot Ion: 91 Resp: 14853
Ion Ratio Lower Upper
91 100
126 39.5 18.4 55.2

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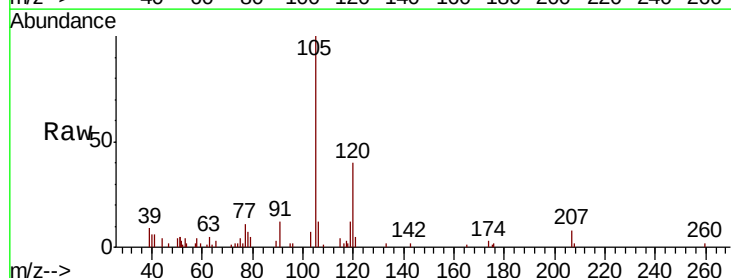


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 125.90 (125.60 to 126.60): V

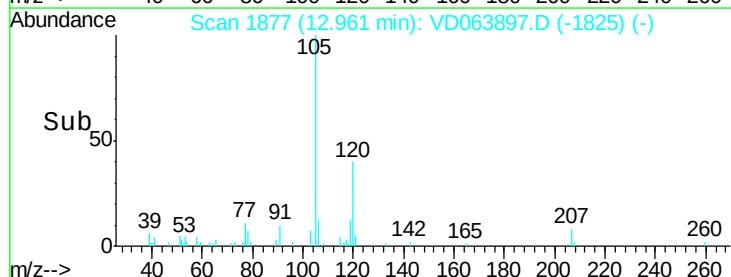
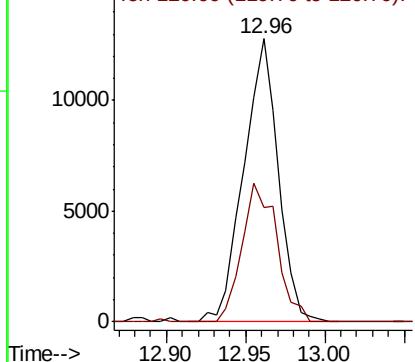


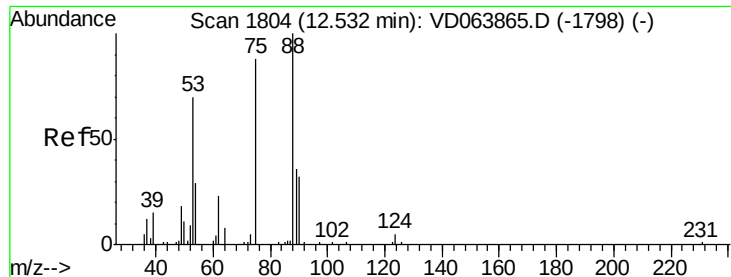
#80
1,3,5-Trimethylbenzene
Concen: 2.523 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion: 105 Resp: 19246
Ion Ratio Lower Upper
105 100
120 49.9 25.9 77.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3.379 ug/l m

RT: 12.53 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

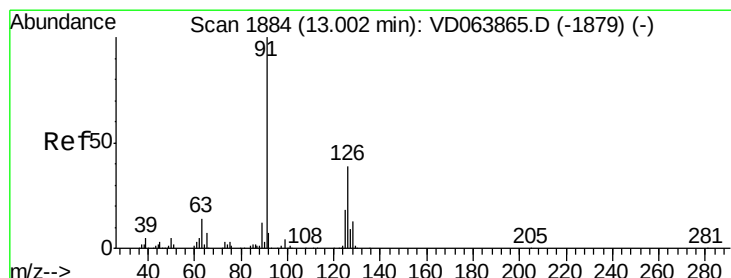
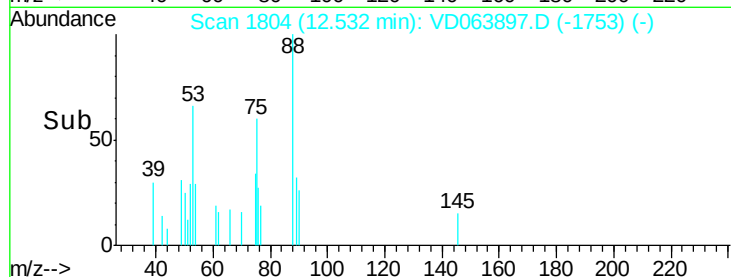
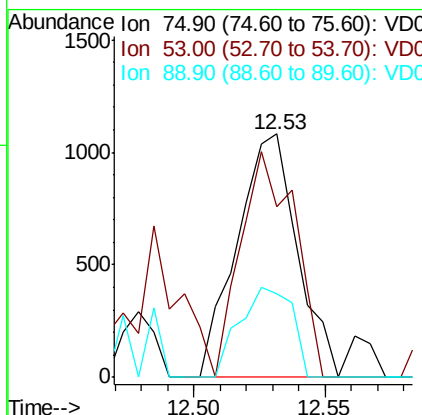
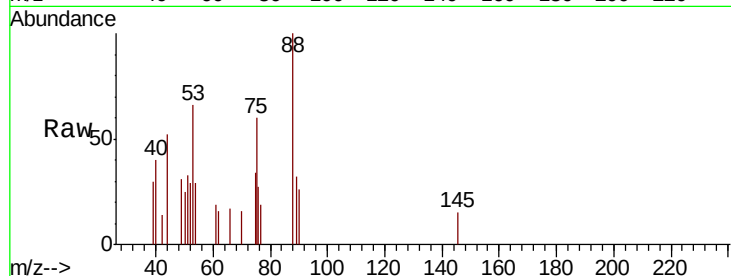
ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:	75	Resp:	1740
Ion Ratio	Lower	Upper	
75	100		
53	0.0	75.0	112.6#
89	6.3	38.2	57.4#

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#82

4-Chlorotoluene

Concen: 2.571 ug/l

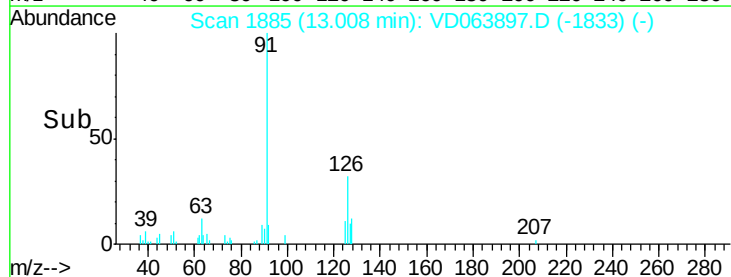
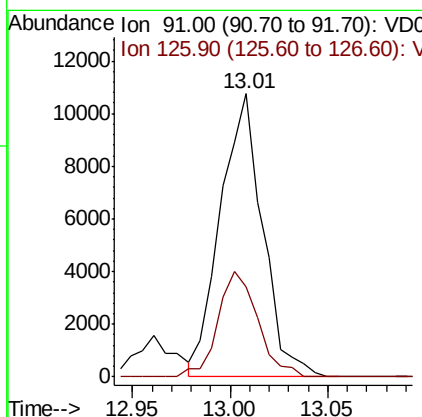
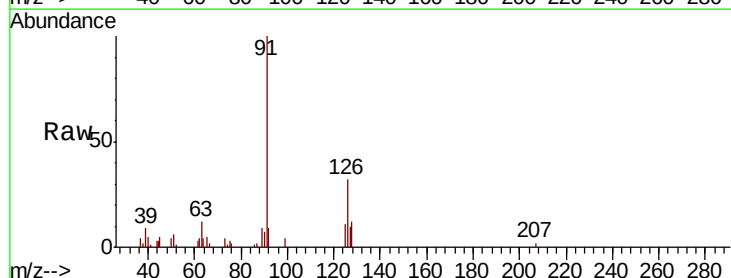
RT: 13.01 min Scan# 1885

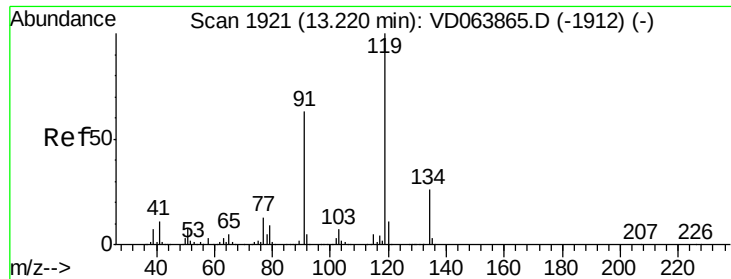
Delta R.T. 0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Tgt Ion:	91	Resp:	16143
Ion Ratio	Lower	Upper	
91	100		
126	35.0	18.6	55.8





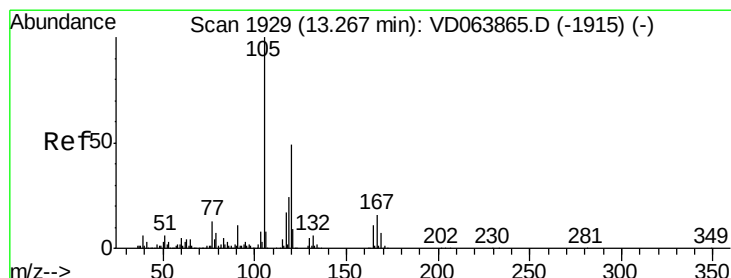
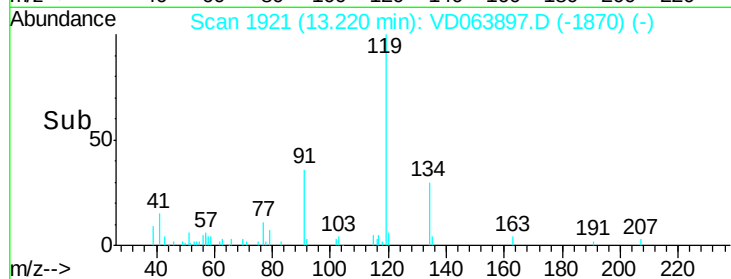
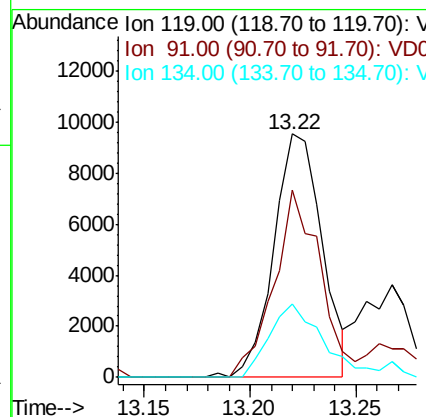
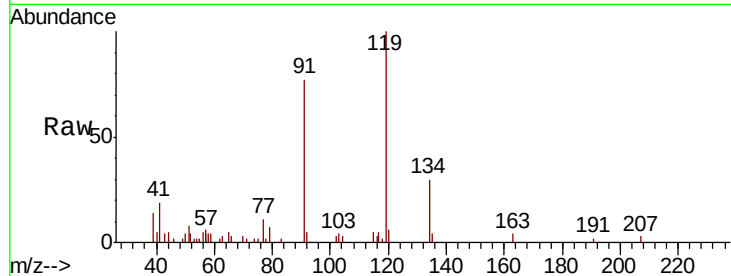
#83
tert-Butylbenzene
Concen: 2.234 ug/l
RT: 13.22 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	73.5	30.0	90.0
134	33.6	13.0	38.9

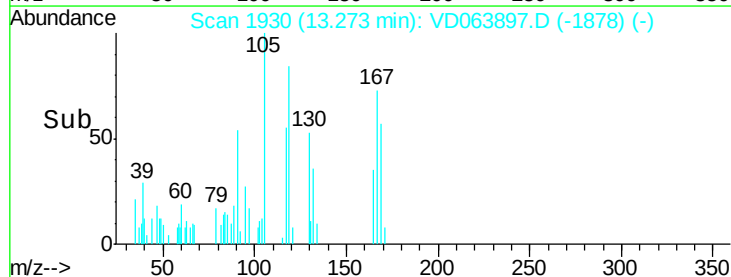
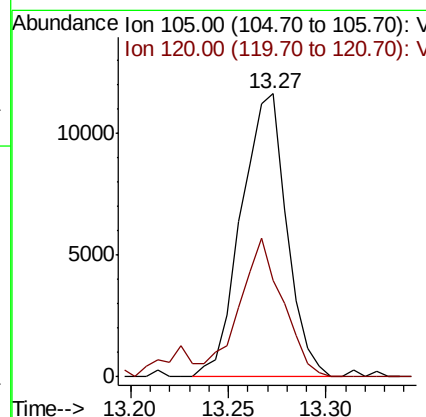
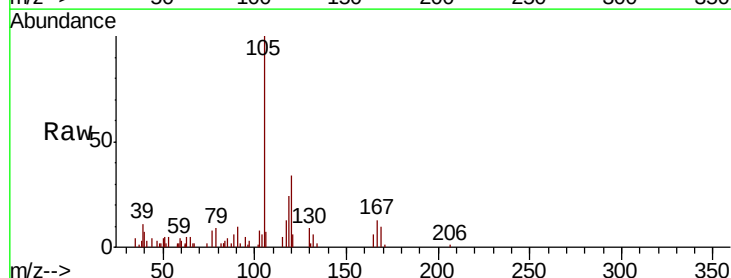
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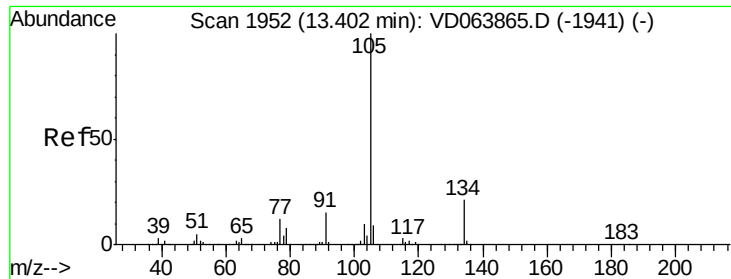
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#84
1,2,4-Trimethylbenzene
Concen: 2.385 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.8	71.5





#85

sec-Butylbenzene

Concen: 2.557 ug/l

RT: 13.40 min Scan# 1951

Delta R.T. -0.01 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion:105 Resp: 23445

Ion Ratio Lower Upper

105 100

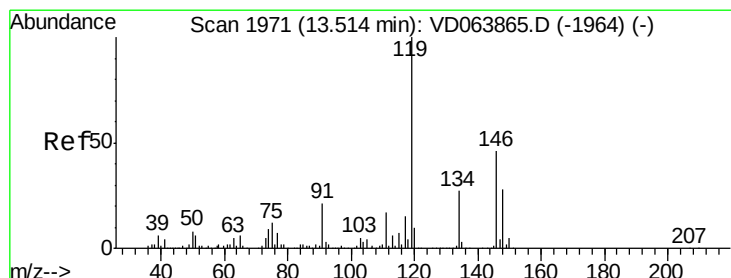
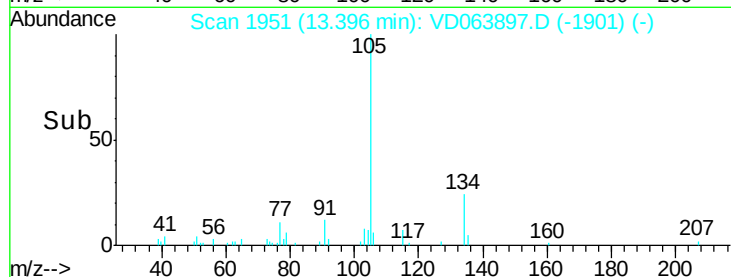
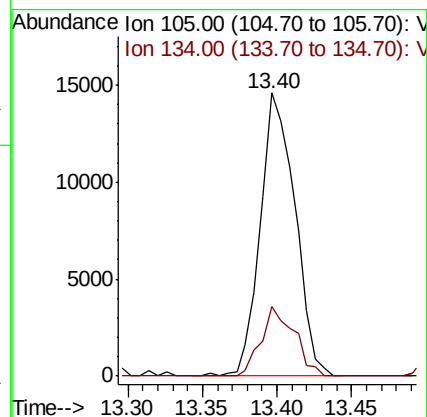
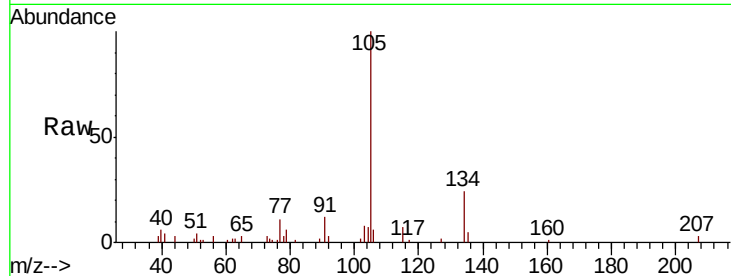
134 23.5 10.6 31.8

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#86

p-Isopropyltoluene

Concen: 2.220 ug/l

RT: 13.51 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VD063897.D

Acq: 07 Oct 2019 13:39

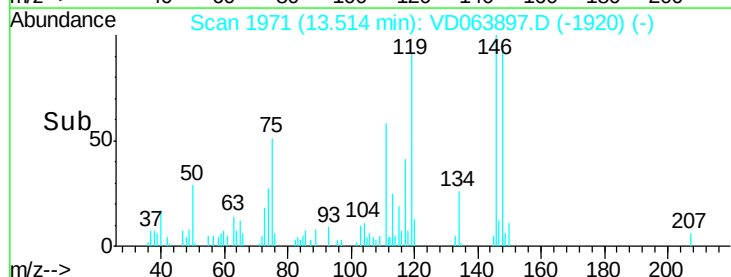
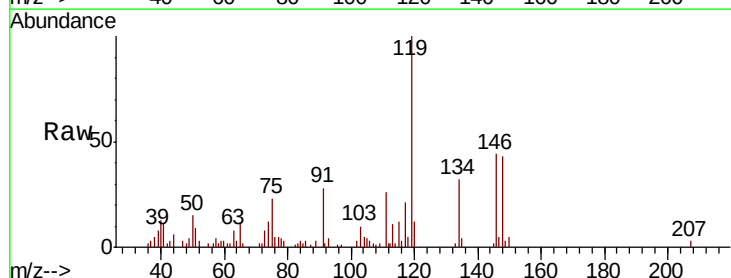
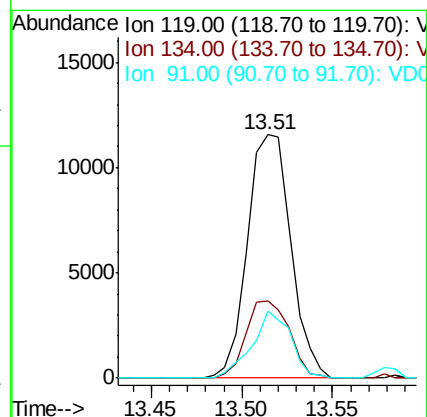
Tgt Ion:119 Resp: 19261

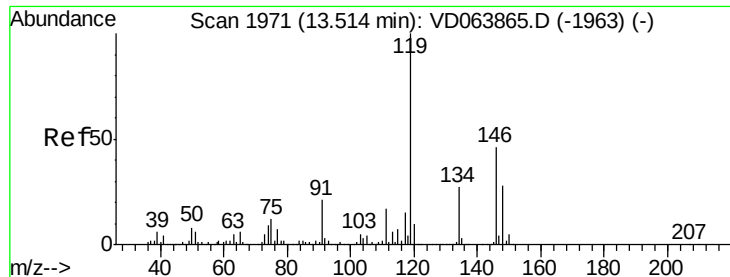
Ion Ratio Lower Upper

119 100

134 31.8 13.9 41.6

91 24.8 11.2 33.5





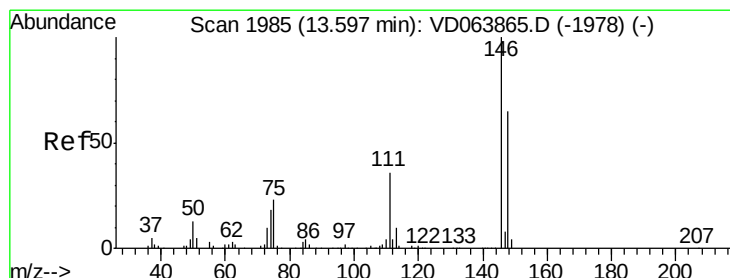
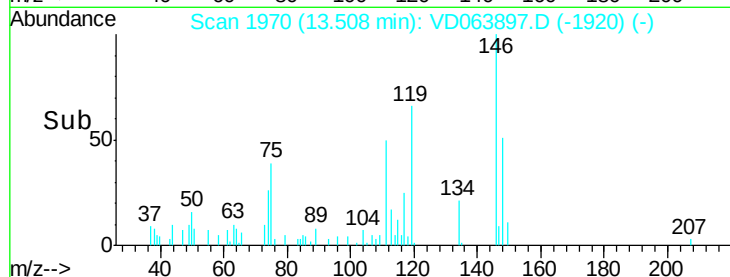
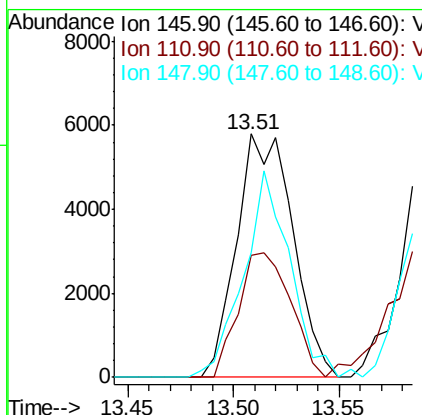
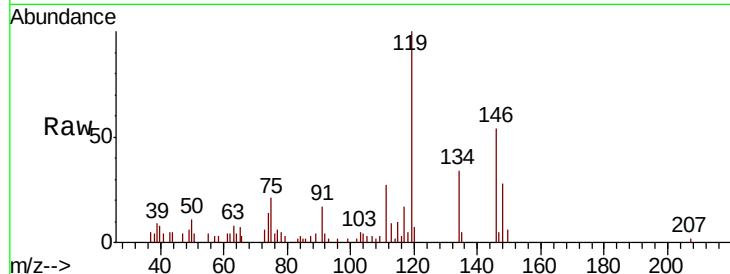
#87
 1,3-Dichlorobenzene
 Concen: 2.374 ug/l
 RT: 13.51 min Scan# 1970
 Delta R.T. -0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	18.3	54.9
148	70.6	31.8	95.4

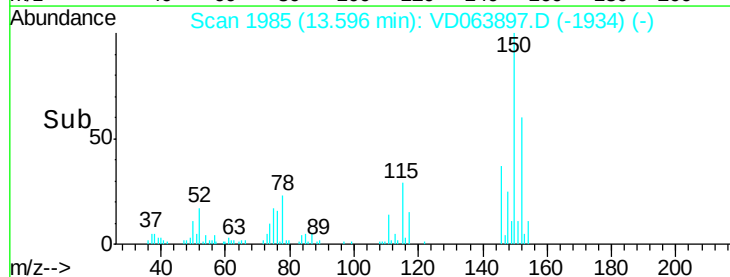
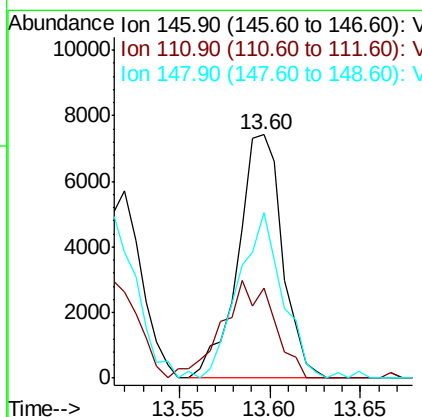
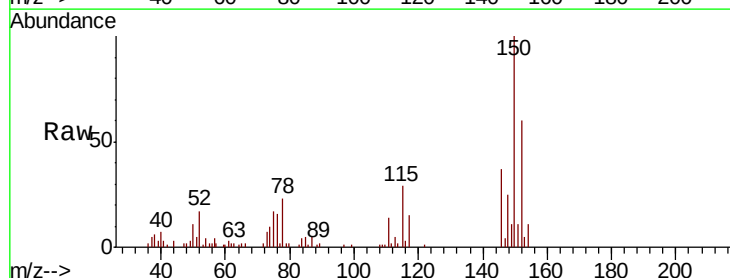
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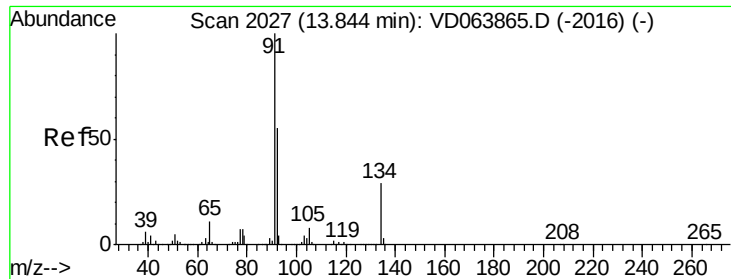
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#88
 1,4-Dichlorobenzene
 Concen: 2.852 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.7	18.6	56.0
148	67.1	32.6	98.0





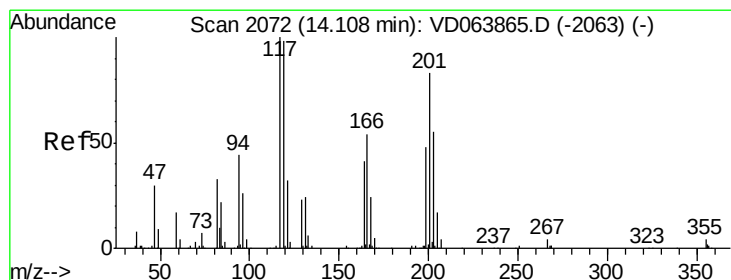
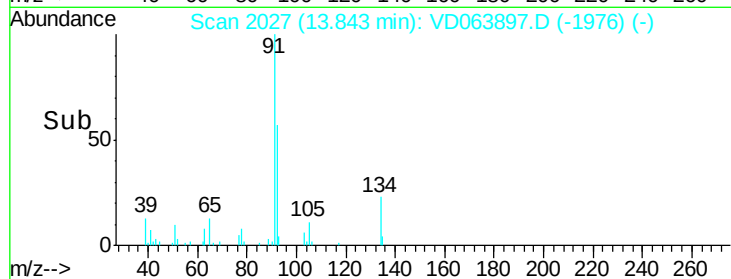
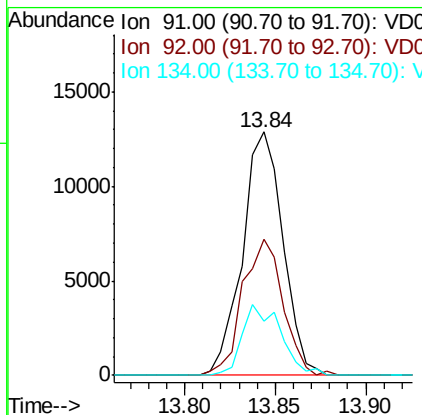
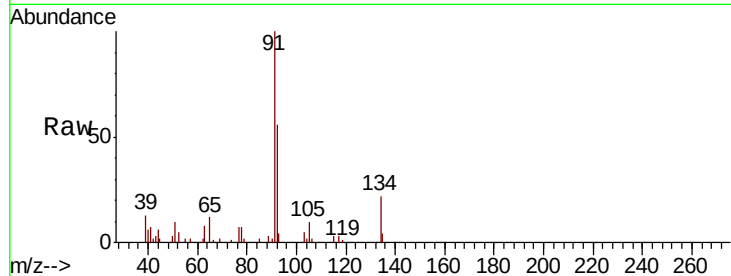
#89
n-Butylbenzene
Concen: 2.472 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.8	26.8	80.3
134	27.9	14.4	43.0

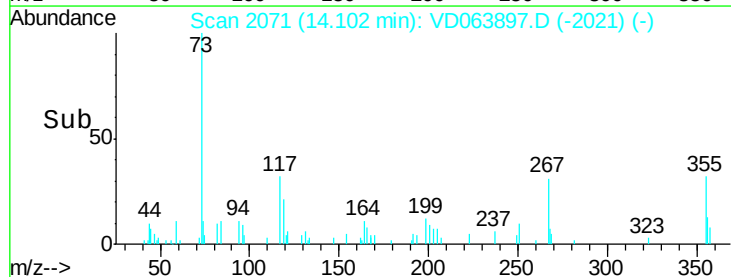
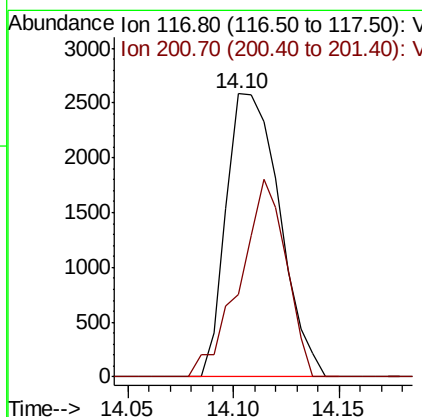
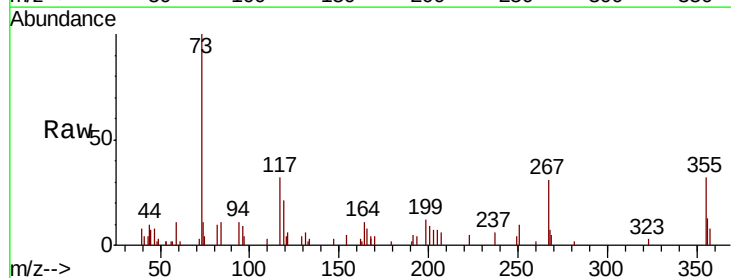
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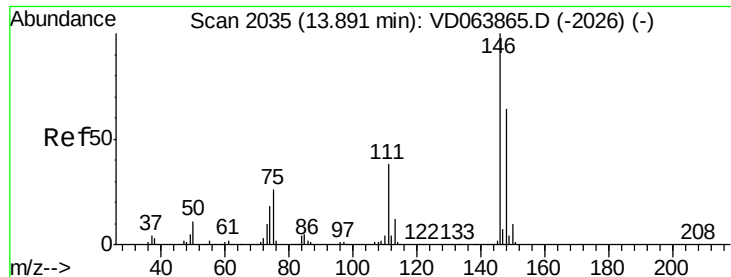
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#90
Hexachloroethane
Concen: 2.910 ug/l
RT: 14.10 min Scan# 2071
Delta R.T. -0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	60.4	40.6	121.7





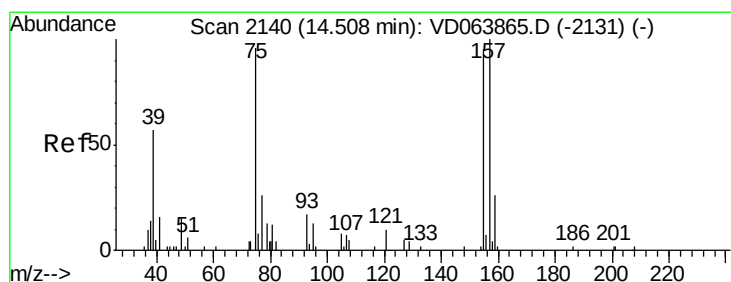
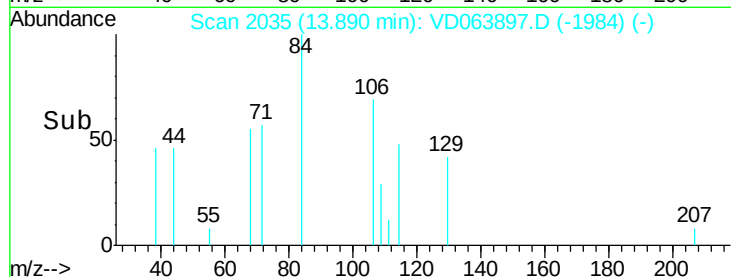
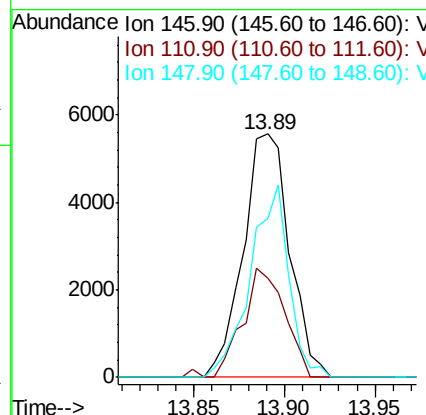
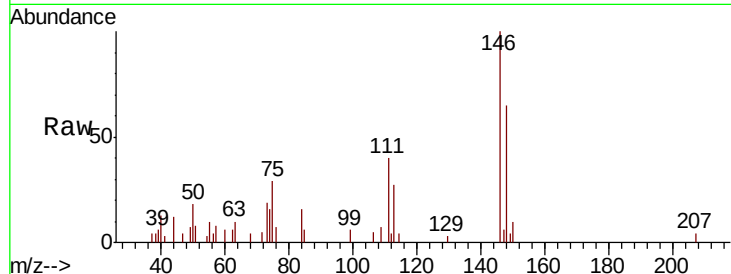
#91
 1,2-Dichlorobenzene
 Concen: 2.553 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	18.6	55.6
148	65.7	31.6	95.0

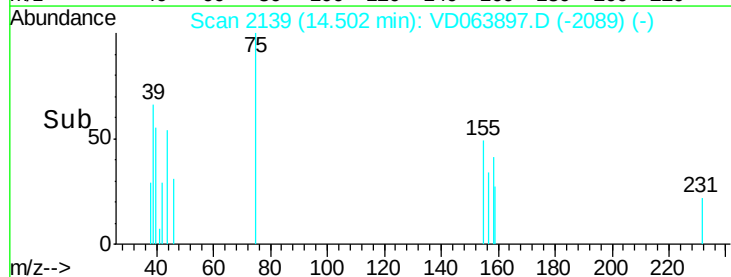
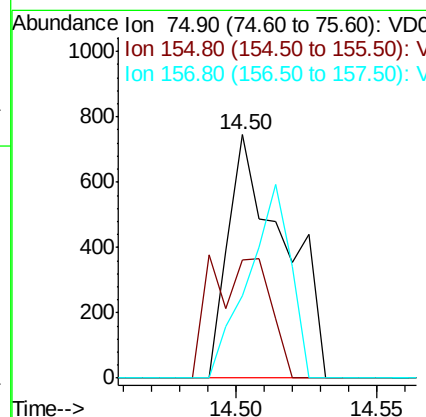
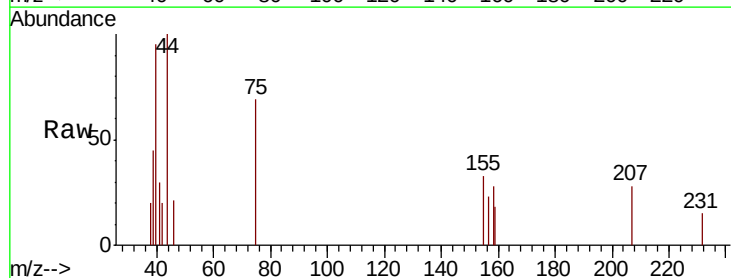
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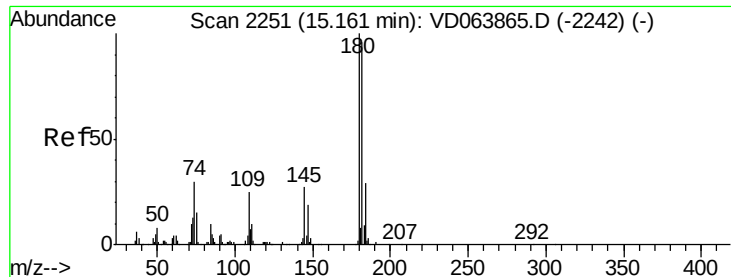
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.716 ug/l
 RT: 14.50 min Scan# 2139
 Delta R.T. -0.01 min
 Lab File: VD063897.D
 Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	43.9	131.6#
157	60.4	56.0	167.9





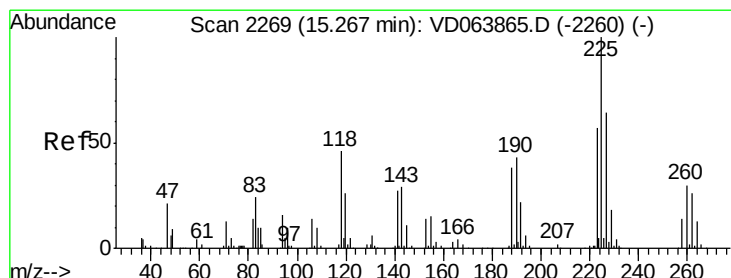
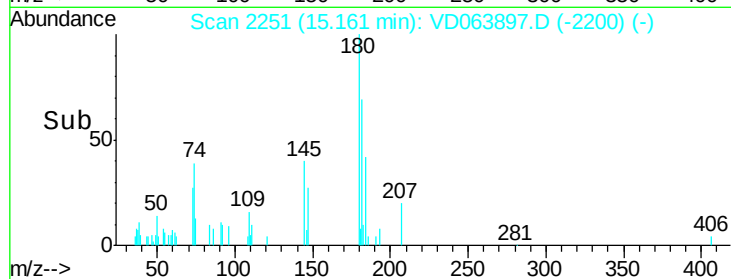
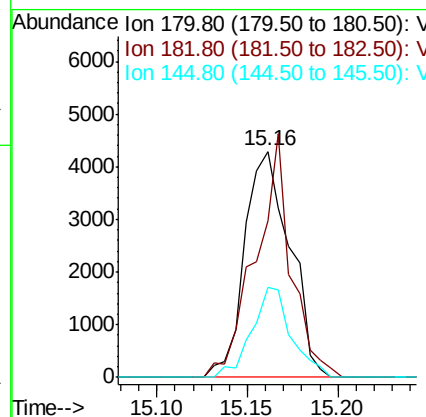
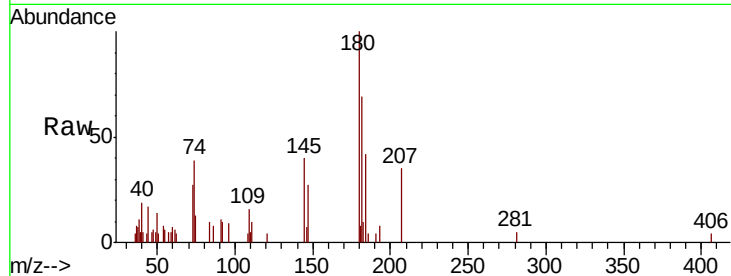
#93
1,2,4-Trichlorobenzene
Concen: 2.484 ug/l
RT: 15.16 min Scan# 2251
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.9	47.4	142.3
145	34.8	13.9	41.7

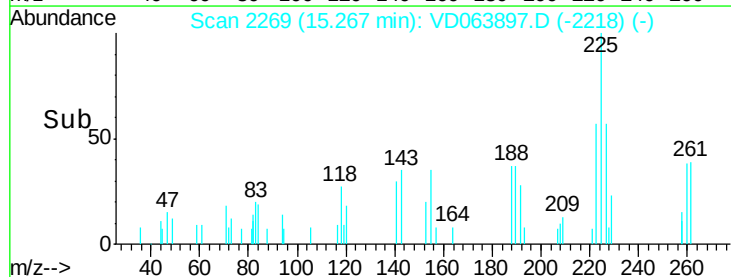
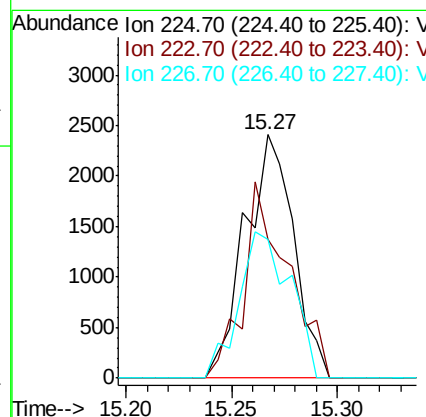
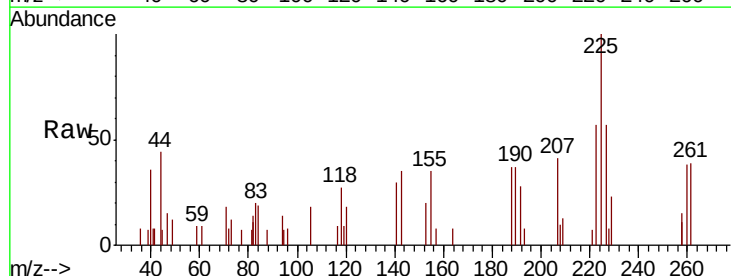
Manual Integrations
APPROVED

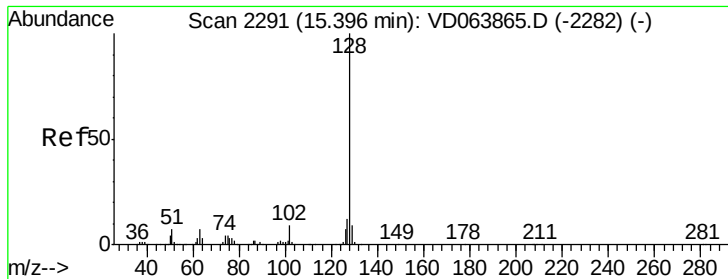
MMDadoda
10/10/2019 1:46:10 PM



#94
Hexachlorobutadiene
Concen: 2.332 ug/l
RT: 15.27 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	72.9	29.5	88.6
227	63.1	30.8	92.4





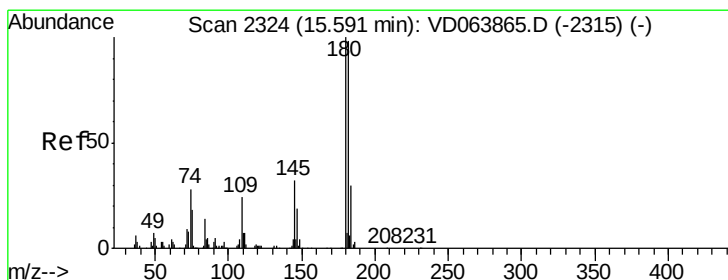
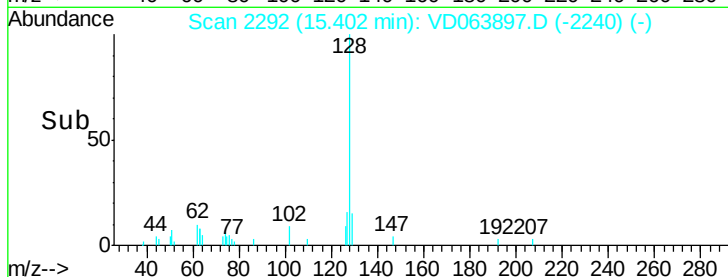
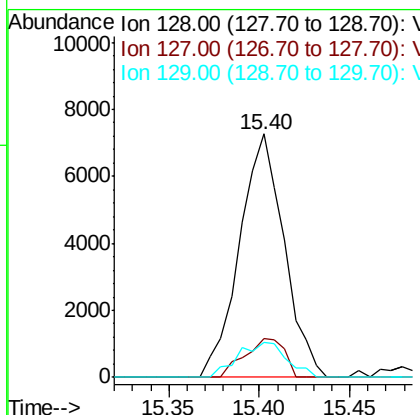
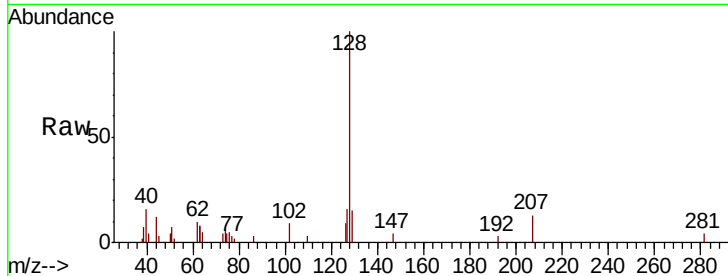
#95
Naphthalene
Concen: 2.467 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.6	16.0
129	15.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/10/2019 1:46:10 PM



#96
1,2,3-Trichlorobenzene
Concen: 2.407 ug/l
RT: 15.60 min Scan# 2325
Delta R.T. 0.01 min
Lab File: VD063897.D
Acq: 07 Oct 2019 13:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	107.7	47.0	141.0
145	37.4	15.3	45.9

