

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100719\
 Data File : VD063898.D
 Acq On : 07 Oct 2019 14:06
 Operator : VA/SY
 Sample : K5111-03 4PPB MDL
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/10/2019 1:46:14 PM

Quant Time: Oct 08 17:36:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 08 17:31:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	184905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	295168	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	284594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	143128	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	82111	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	
35) Dibromofluoromethane	7.92	113	81622	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
50) Toluene-d8	10.34	98	341129	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
62) 4-Bromofluorobenzene	12.63	95	107934	42.42	ug/l	0.00
Spiked Amount			Recovery	=	84.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	5807	4.428	ug/l	92
3) Chloromethane	2.21	50	19665	4.897	ug/l	94
4) Vinyl Chloride	2.35	62	19215	4.534	ug/l #	84
5) Bromomethane	2.77	94	13507	4.957	ug/l	90
6) Chloroethane	2.93	64	12458	4.445	ug/l #	87
7) Trichlorofluoromethane	3.27	101	26230	4.681	ug/l #	82
8) Diethyl Ether	3.70	74	4242	4.716	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	4.09	101	7668	4.944	ug/l #	39
10) Methyl Iodide	4.29	142	8878	4.154	ug/l	99
11) Tert butyl alcohol	5.24	59	2775	21.733	ug/l #	92
12) 1,1-Dichloroethene	4.06	96	7354	4.746	ug/l #	65
13) Acrolein	3.92	56	2917	18.143	ug/l #	71
14) Allyl chloride	4.70	41	11867m	4.606	ug/l	
15) Acrylonitrile	5.43	53	9459	23.854	ug/l	97
16) Acetone	4.17	43	11275	24.057	ug/l	97
17) Carbon Disulfide	4.39	76	24567	4.361	ug/l	98
18) Methyl Acetate	4.73	43	5455	5.951	ug/l #	80
19) Methyl tert-butyl Ether	5.48	73	18372	4.578	ug/l #	64
20) Methylene Chloride	4.96	84	15493	6.441	ug/l #	87
21) trans-1,2-Dichloroethene	5.47	96	8952	4.640	ug/l	92
22) Diisopropyl ether	6.37	45	24382	4.634	ug/l #	90
23) Vinyl Acetate	6.31	43	68210	21.791	ug/l #	94
24) 1,1-Dichloroethane	6.27	63	13792	4.255	ug/l	98
25) 2-Butanone	7.23	43	13868	24.967	ug/l	92
26) 2,2-Dichloropropane	7.22	77	14674	5.005	ug/l	96
27) cis-1,2-Dichloroethene	7.21	96	10172	4.658	ug/l	91
28) Bromochloromethane	7.54	49	6133	5.050	ug/l	96
29) Tetrahydrofuran	7.57	42	6968	21.493	ug/l	95
30) Chloroform	7.71	83	15716	4.465	ug/l	91
31) Cyclohexane	7.98	56	18240	6.002	ug/l #	87
32) 1,1,1-Trichloroethane	7.90	97	12828	4.248	ug/l	94
36) 1,1-Dichloropropene	8.11	75	13209	4.894	ug/l	98
37) Ethyl Acetate	7.30	43	5394	4.404	ug/l #	94
38) Carbon Tetrachloride	8.10	117	11716	4.296	ug/l #	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.36	83	16257	4.899	ug/l #	81
40) Benzene	8.36	78	33831	4.374	ug/l	99
41) Methacrylonitrile	7.53	41	2158	3.449	ug/l #	26
42) 1,2-Dichloroethane	8.43	62	9606	4.294	ug/l	94
43) Isopropyl Acetate	8.46	43	10233	4.521	ug/l	97
44) Trichloroethene	9.11	130	9971	4.471	ug/l	92
45) 1,2-Dichloropropane	9.38	63	7749	4.093	ug/l #	82
46) Dibromomethane	9.48	93	4973	4.613	ug/l	98
47) Bromodichloromethane	9.67	83	11569	4.168	ug/l	95
48) Methyl methacrylate	9.46	41	4837	4.460	ug/l	94
49) 1,4-Dioxane	9.47	88	1454	98.805	ug/l #	82
51) 4-Methyl-2-Pentanone	10.24	43	25548	21.765	ug/l	100
52) Toluene	10.40	92	23788	4.481	ug/l	97
53) t-1,3-Dichloropropene	10.62	75	10644	3.930	ug/l	98
54) cis-1,3-Dichloropropene	10.10	75	14010	4.494	ug/l #	83
55) 1,1,2-Trichloroethane	10.80	97	6877	4.518	ug/l #	90
56) Ethyl methacrylate	10.67	69	8530	4.425	ug/l	97
57) 1,3-Dichloropropane	10.95	76	11640	4.469	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.94	63	15691	18.937	ug/l	99
59) 2-Hexanone	10.98	43	17426	20.523	ug/l	99
60) Dibromochloromethane	11.14	129	8312	4.194	ug/l	94
61) 1,2-Dibromoethane	11.24	107	6374	4.319	ug/l	95
64) Tetrachloroethene	10.87	164	9027	4.646	ug/l	91
65) Chlorobenzene	11.67	112	24819	4.342	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	8524	4.047	ug/l	93
67) Ethyl Benzene	11.75	91	42772	4.150	ug/l	90
68) m/p-Xylenes	11.86	106	32766	8.237	ug/l	97
69) o-Xylene	12.18	106	17153	4.503	ug/l	88
70) Styrene	12.20	104	25677	3.982	ug/l	96
71) Bromoform	12.37	173	4617	4.085	ug/l #	93
73) Isopropylbenzene	12.48	105	42418	4.409	ug/l	97
74) N-amyl acetate	12.29	43	8921	4.306	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.73	83	7274	4.344	ug/l	93
76) 1,2,3-Trichloropropane	12.78	75	4353m	4.541	ug/l	
77) Bromobenzene	12.76	156	10055	4.194	ug/l	87
78) n-propylbenzene	12.82	91	50402	4.463	ug/l	99
79) 2-Chlorotoluene	12.90	91	27643	4.439	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	34194	4.260	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	2097	3.871	ug/l #	93
82) 4-Chlorotoluene	13.01	91	28280	4.281	ug/l	98
83) tert-Butylbenzene	13.23	119	28038	3.925	ug/l	88
84) 1,2,4-Trimethylbenzene	13.27	105	35409	4.279	ug/l	95
85) sec-Butylbenzene	13.40	105	42742	4.430	ug/l	96
86) p-Isopropyltoluene	13.51	119	38441	4.211	ug/l	96
87) 1,3-Dichlorobenzene	13.51	146	19922	4.206	ug/l	97
88) 1,4-Dichlorobenzene	13.60	146	21732	4.651	ug/l	96
89) n-Butylbenzene	13.84	91	38213	4.497	ug/l	96
90) Hexachloroethane	14.11	117	7439	4.531	ug/l	96
91) 1,2-Dichlorobenzene	13.88	146	17078	4.184	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1237m	4.270	ug/l	

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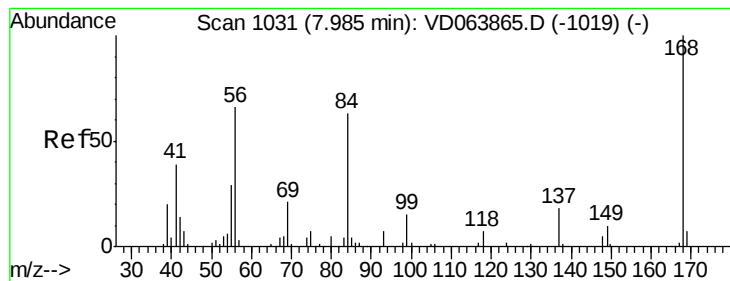
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	13831	4.391	ug/l	95
94) Hexachlorobutadiene	15.27	225	7212	4.149	ug/l	92
95) Naphthalene	15.40	128	22570	4.263	ug/l	96
96) 1,2,3-Trichlorobenzene	15.60	180	11270	4.147	ug/l	93

(#) = 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: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion:168 Resp: 184905

Ion Ratio Lower Upper

168 100

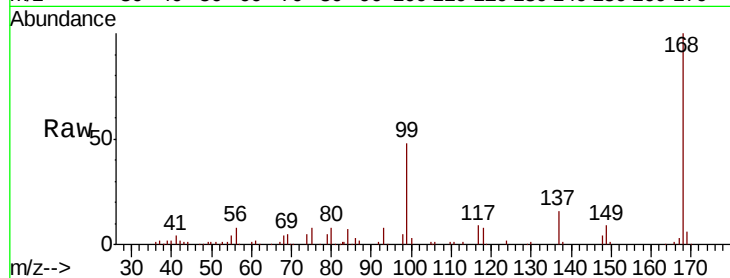
99 47.6 43.0 64.4

Manual Integrations

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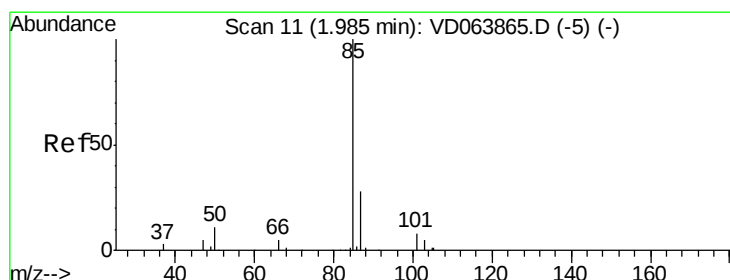
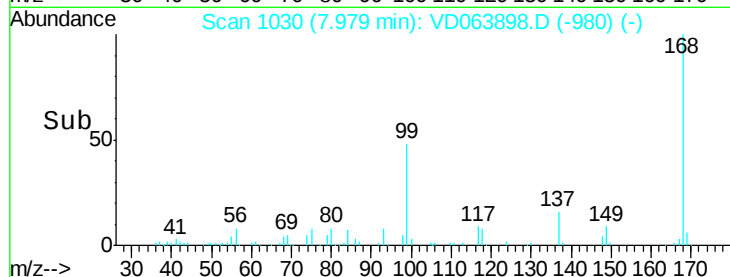
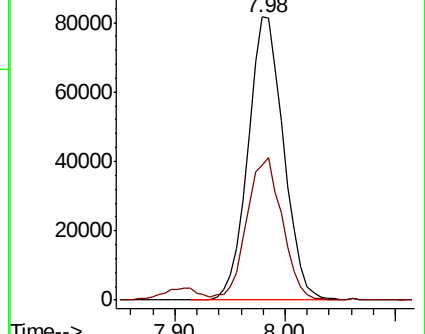
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.428 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063898.D

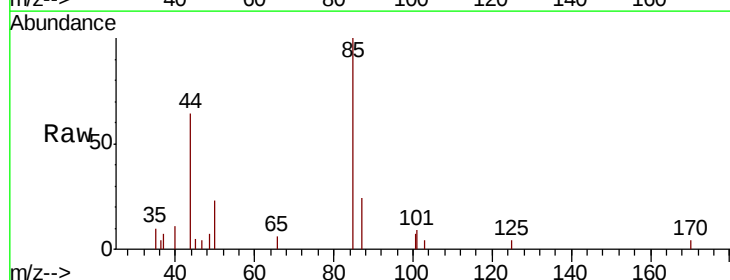
Acq: 07 Oct 2019 14:06

Tgt Ion: 85 Resp: 5807

Ion Ratio Lower Upper

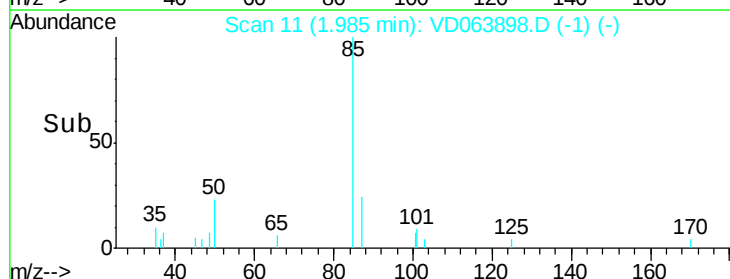
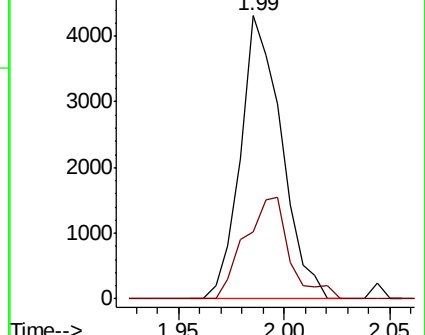
85 100

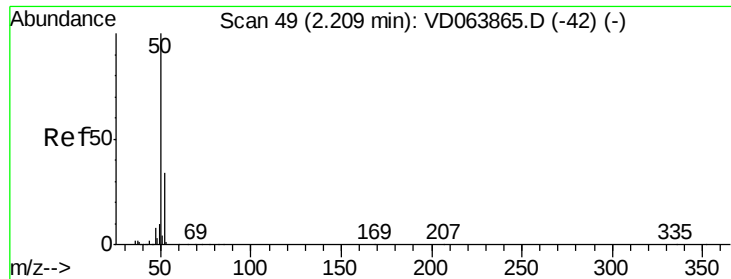
87 23.6 14.0 42.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





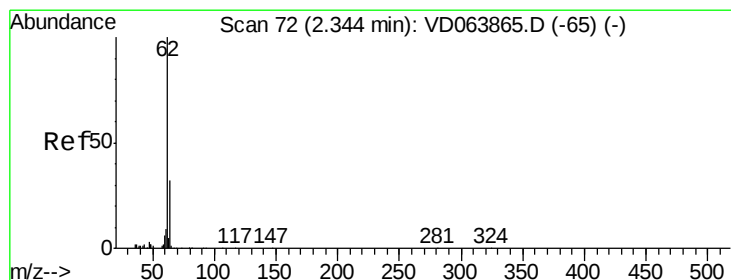
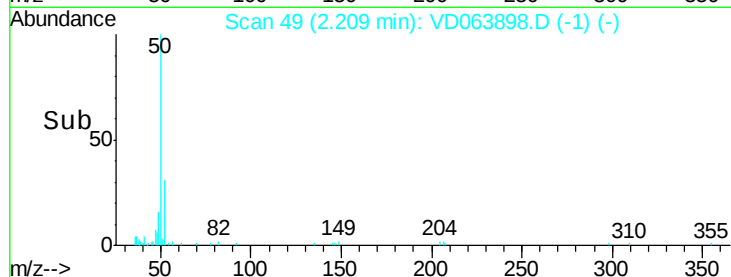
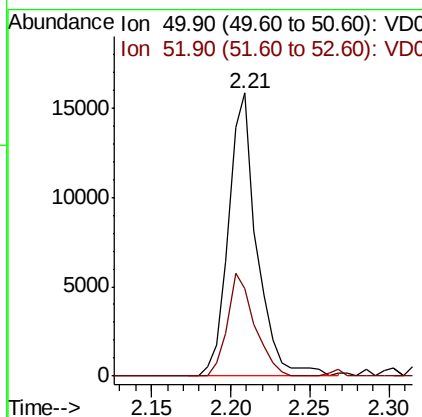
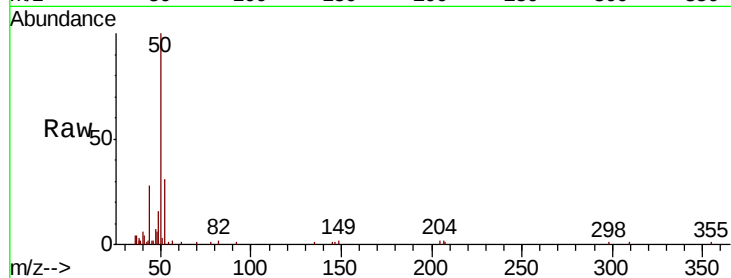
#3
Chloromethane
Concen: 4.897 ug/l
RT: 2.21 min Scan# 49
Delta R.T. 0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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Tot Ion: 50 Resp: 19665
Ion Ratio Lower Upper
50 100
52 30.9 27.5 41.3

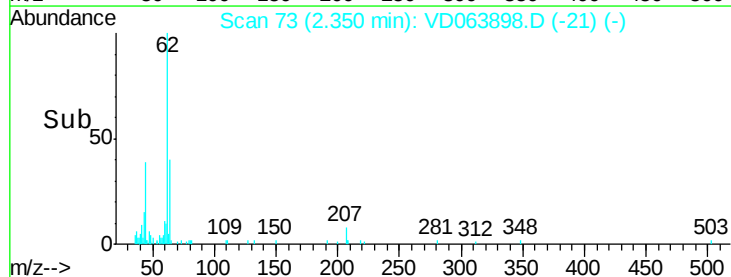
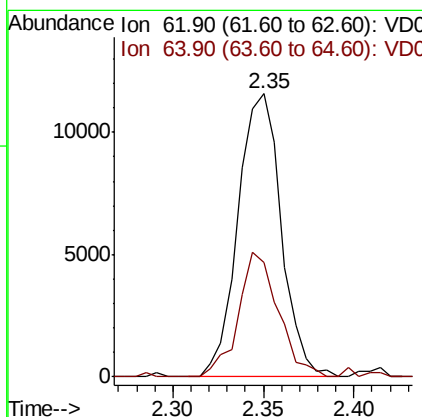
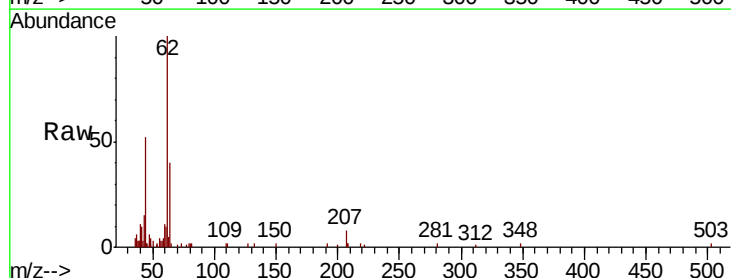
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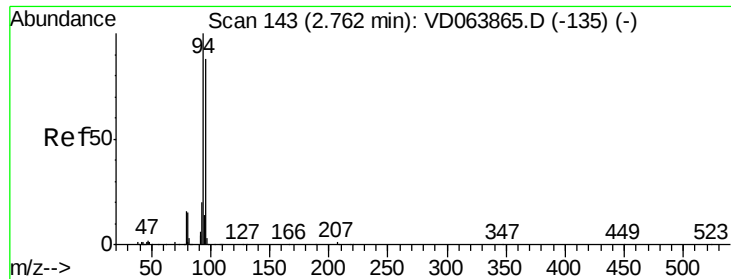
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#4
Vinyl Chloride
Concen: 4.534 ug/l
RT: 2.35 min Scan# 73
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 62 Resp: 19215
Ion Ratio Lower Upper
62 100
64 40.3 25.4 38.0#





#5

Bromomethane

Concen: 4.957 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion: 94 Resp: 13507

Ion Ratio Lower Upper

94 100

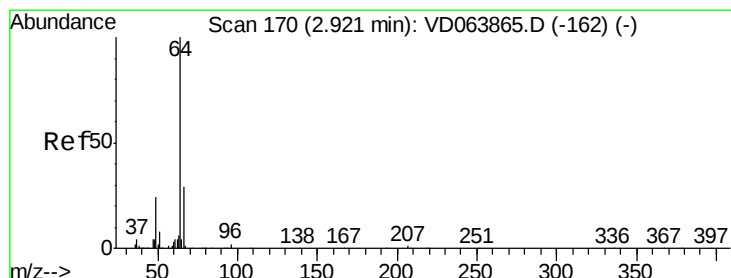
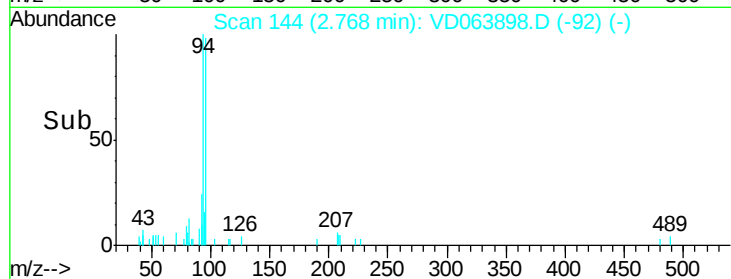
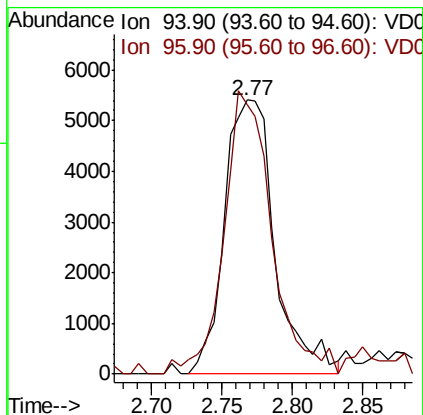
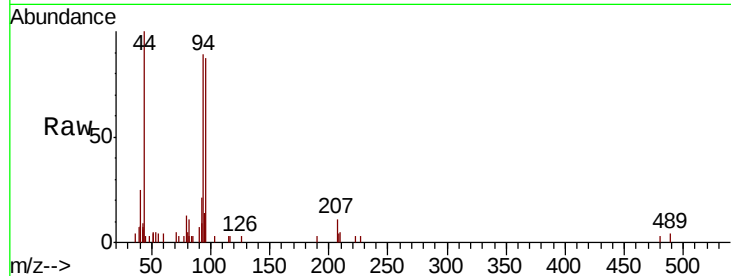
96 98.0 70.8 106.2

Manual Integrations

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#6

Chloroethane

Concen: 4.445 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD063898.D

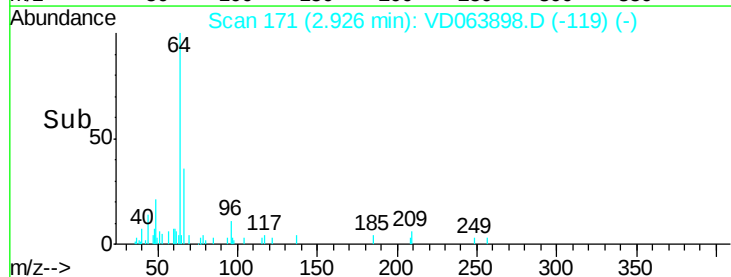
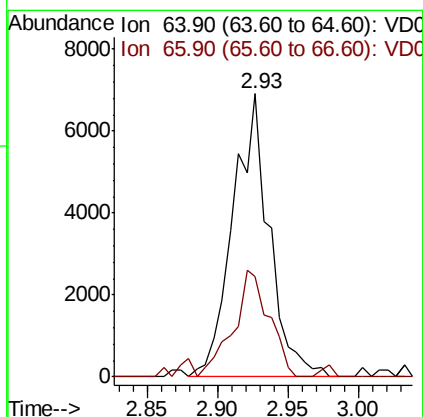
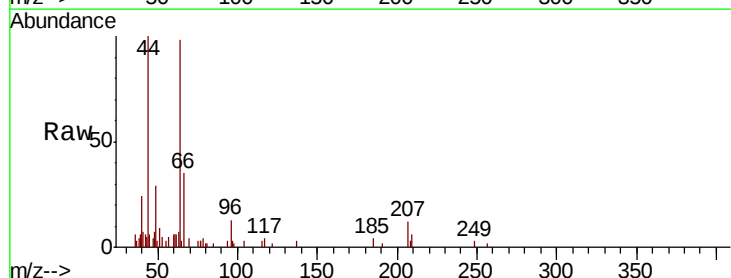
Acq: 07 Oct 2019 14:06

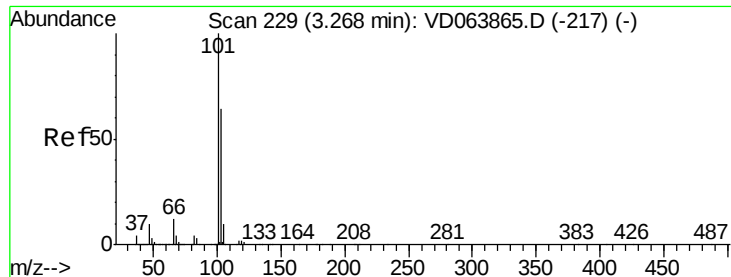
Tgt Ion: 64 Resp: 12458

Ion Ratio Lower Upper

64 100

66 35.4 23.0 34.4#





#7

Trichlorofluoromethane

Concen: 4.681 ug/l

RT: 3.27 min Scan# 230

Delta R.T. 0.01 min

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Tot Ion:101 Resp: 26230

Ion Ratio Lower Upper

101 100

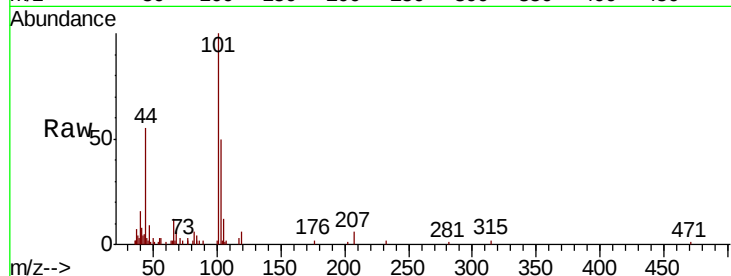
103 50.0 51.1 76.7#

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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

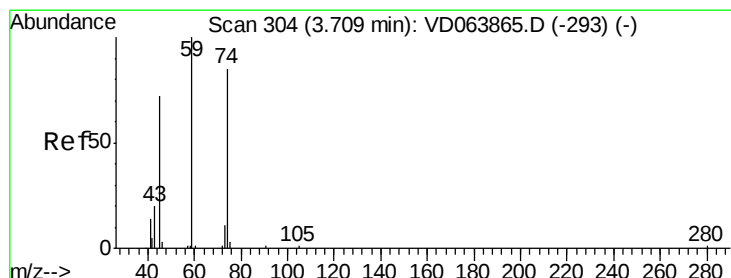
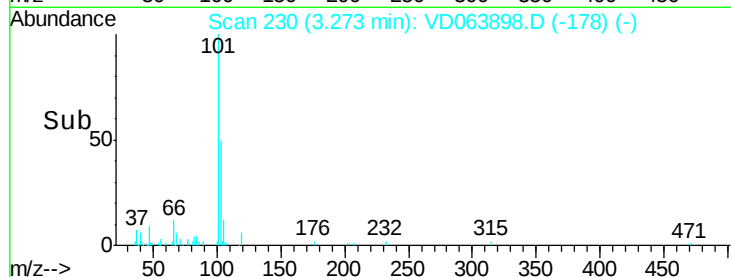
3.27

10000

5000

0

Time-->



#8

Diethyl Ether

Concen: 4.716 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD063898.D

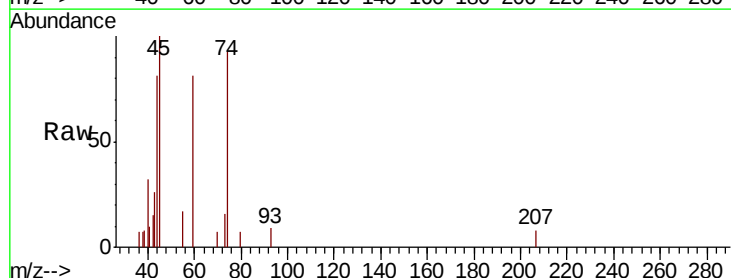
Acq: 07 Oct 2019 14:06

Tgt Ion: 74 Resp: 4242

Ion Ratio Lower Upper

74 100

45 116.0 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

2500

2000

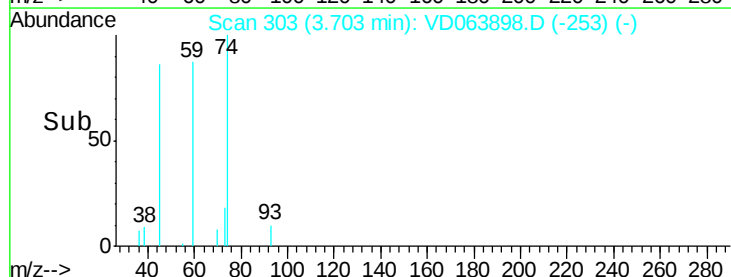
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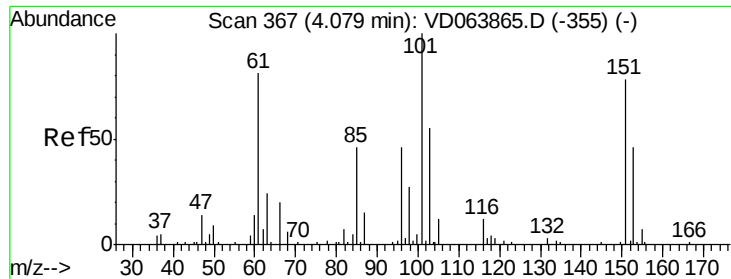
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.944 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

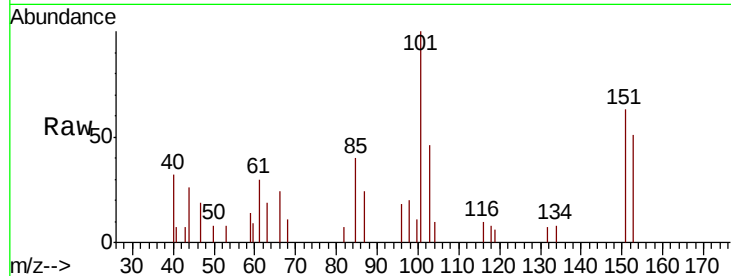
ClientSampleId :

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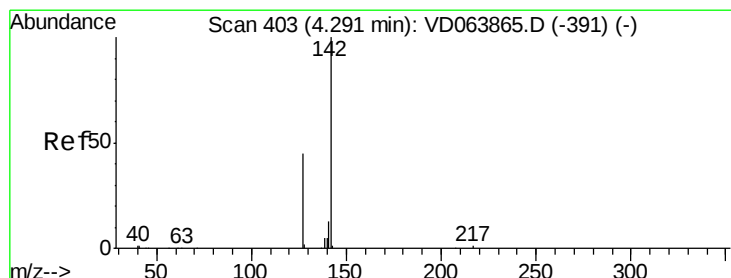
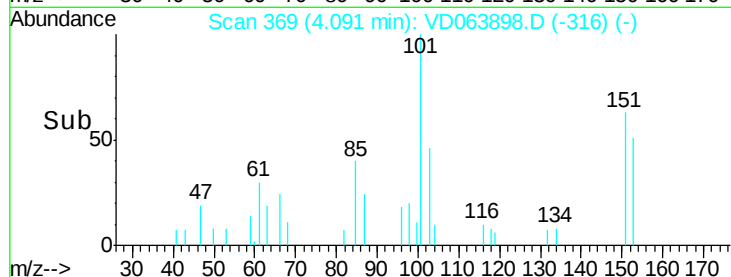
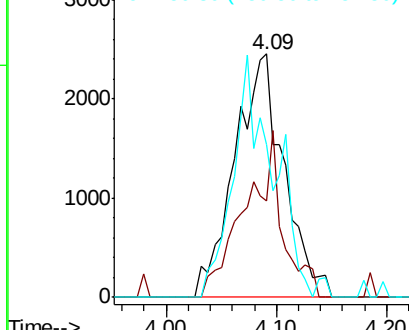
Tot Ion:	101	Resp:	7668
Ion Ratio	Lower	Upper	
101	100		
85	51.4	37.5	56.3
151	0.0	65.5	98.3#

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.154 ug/l

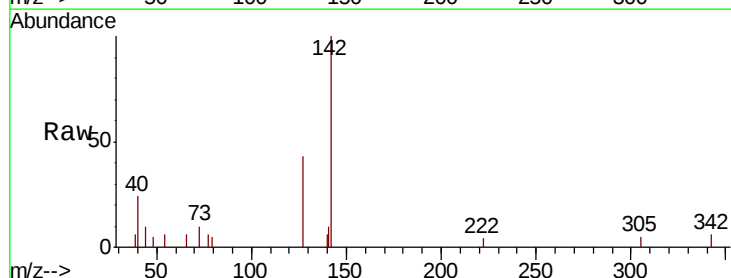
RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

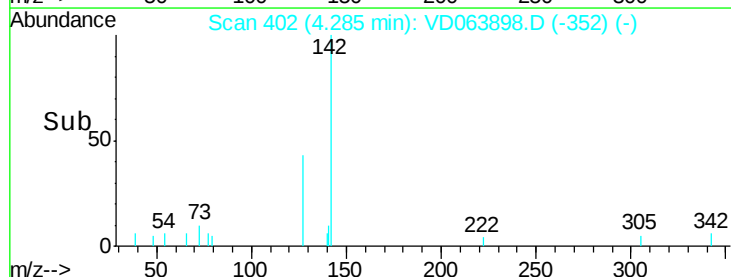
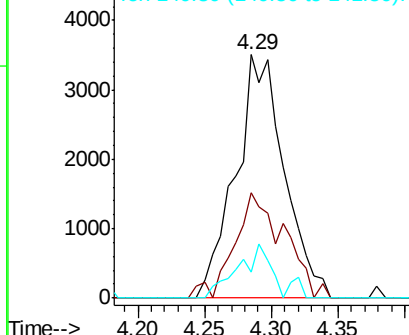
Lab File: VD063898.D

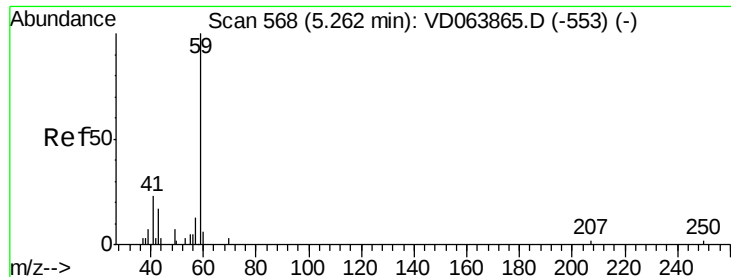
Acq: 07 Oct 2019 14:06

Tgt Ion:	142	Resp:	8878
Ion Ratio	Lower	Upper	
142	100		
127	44.6	35.3	52.9
141	14.6	12.2	18.2



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





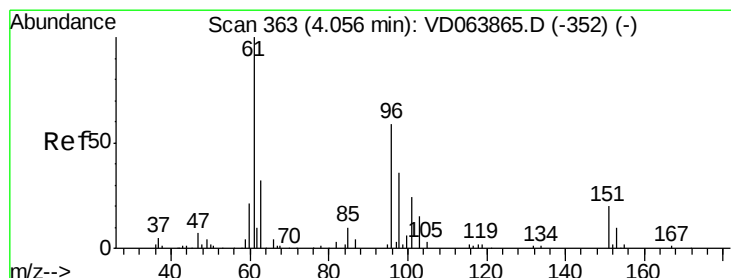
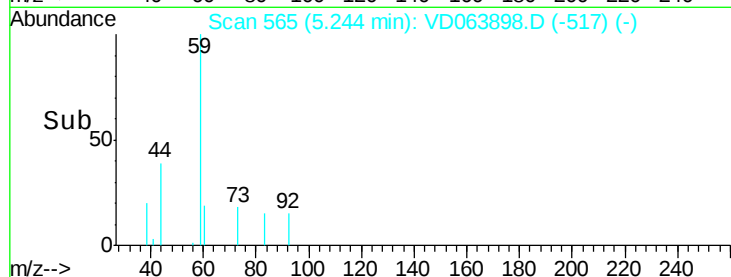
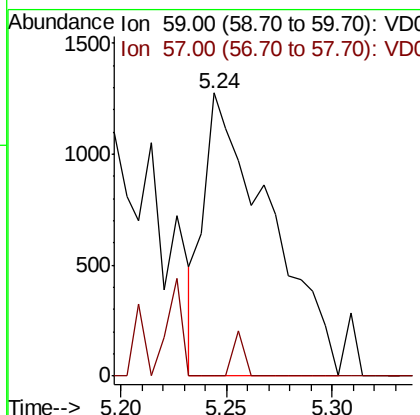
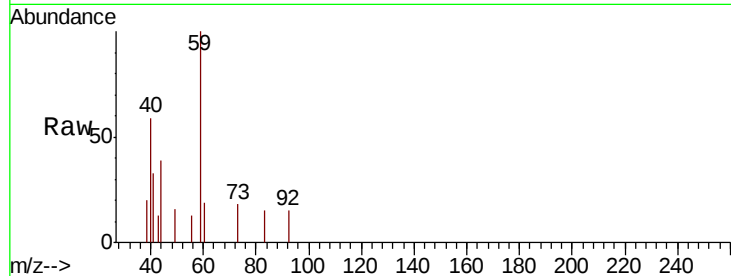
#11
Tert butyl alcohol
Concen: 21.733 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.02 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion: 59 Resp: 2775
Ion Ratio Lower Upper
59 100
57 7.8 8.8 13.2#

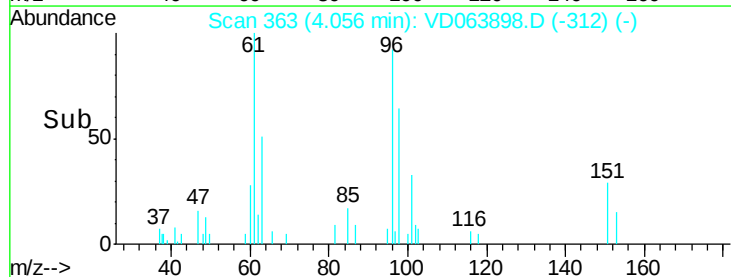
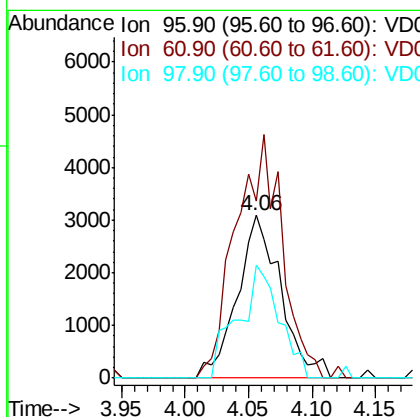
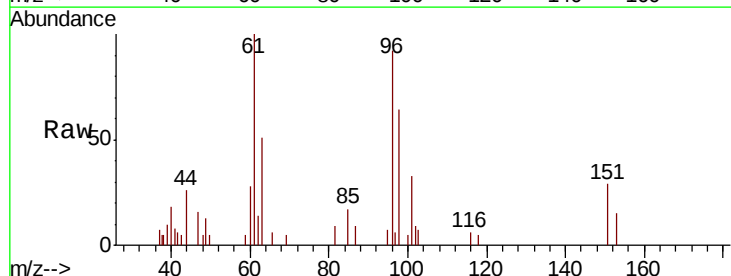
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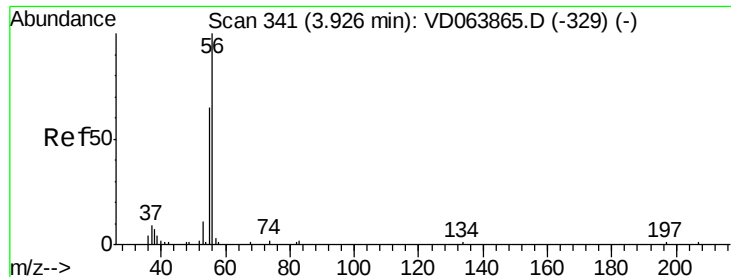
MMDadoda
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#12
1,1-Dichloroethene
Concen: 4.746 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 96 Resp: 7354
Ion Ratio Lower Upper
96 100
61 108.5 135.6 203.4#
98 69.1 49.2 73.8





#13

Acrolein

Concen: 18.143 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion: 56 Resp: 2917

Ion Ratio Lower Upper

56 100

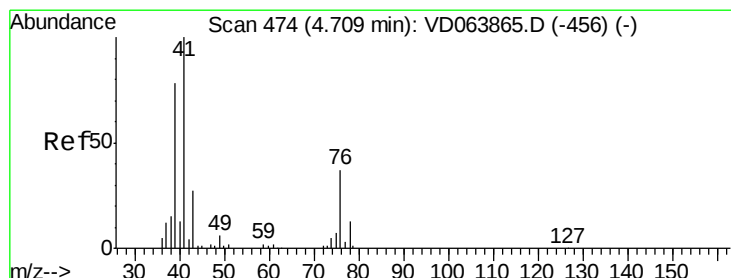
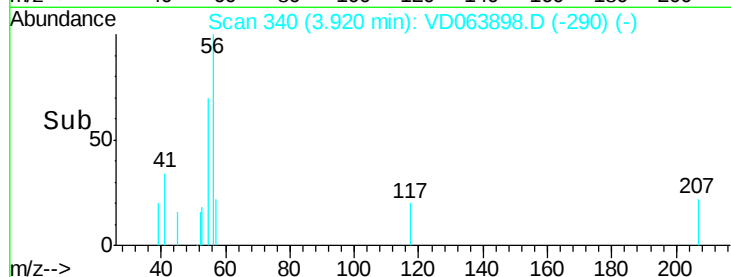
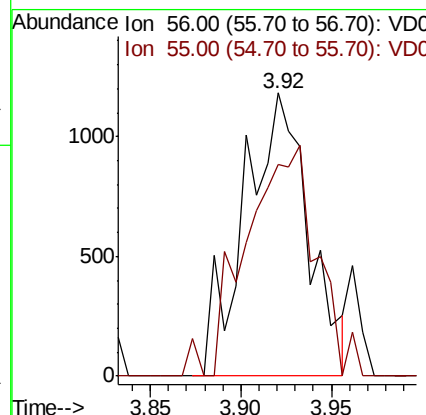
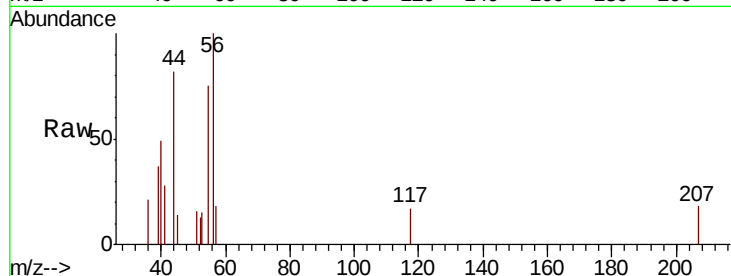
55 89.3 53.0 79.6#

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#14

Allyl chloride

Concen: 4.606 ug/l m

RT: 4.70 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

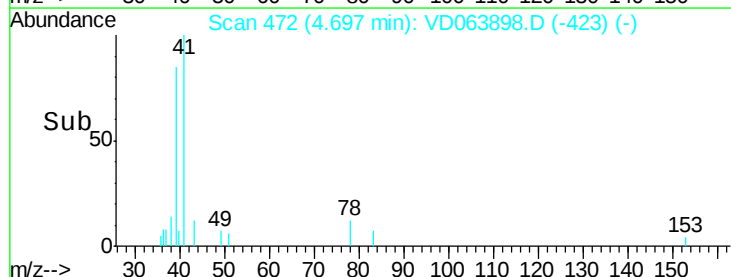
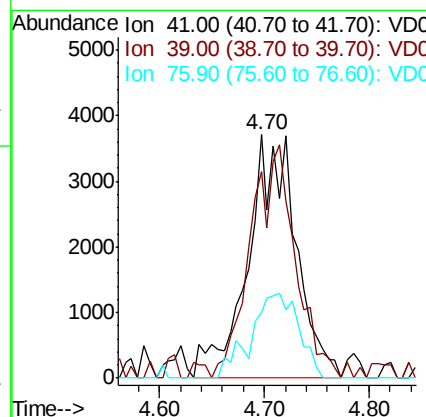
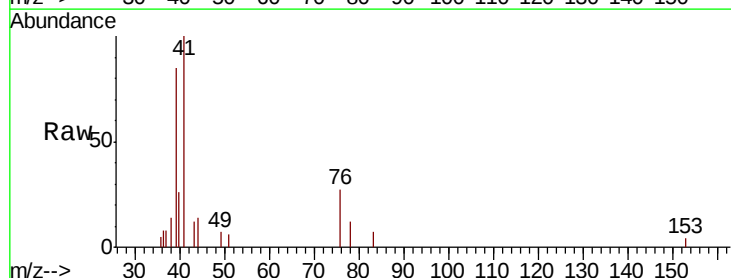
Tgt Ion: 41 Resp: 11867

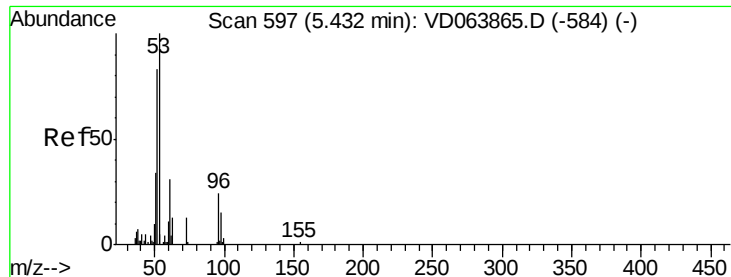
Ion Ratio Lower Upper

41 100

39 88.6 61.8 92.6

76 34.6 31.3 46.9





#15

Acrylonitrile

Concen: 23.854 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

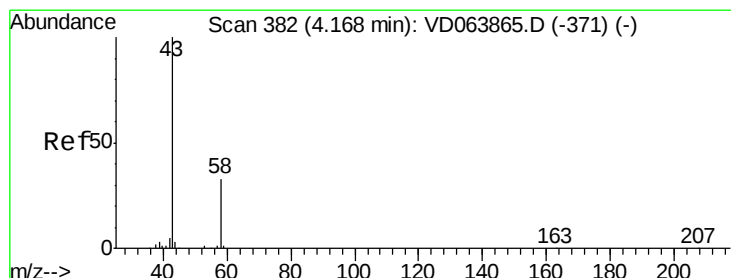
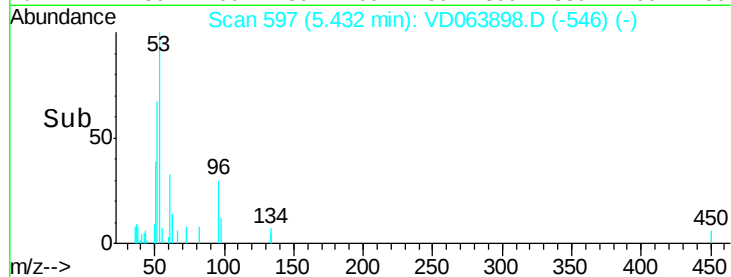
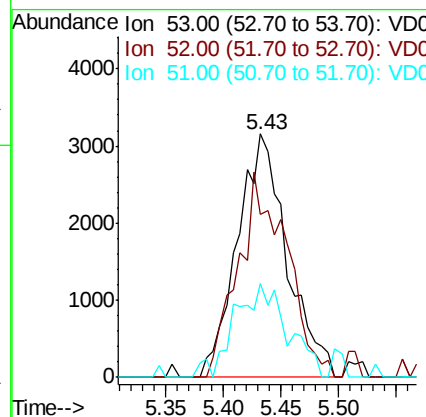
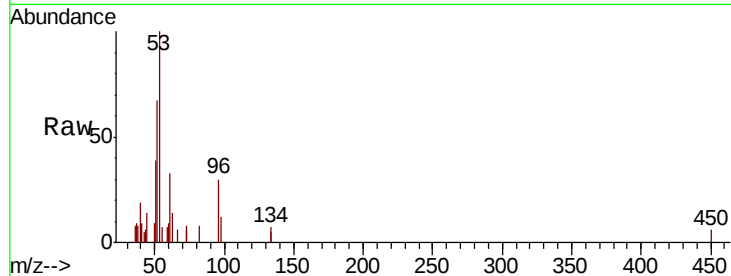
ClientSampleId :

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

Tot Ion:	53	Resp:	9459
Ion	Ratio	Lower	Upper
53	100		
52	82.5	67.3	100.9
51	41.2	30.5	45.7

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#16

Acetone

Concen: 24.057 ug/l

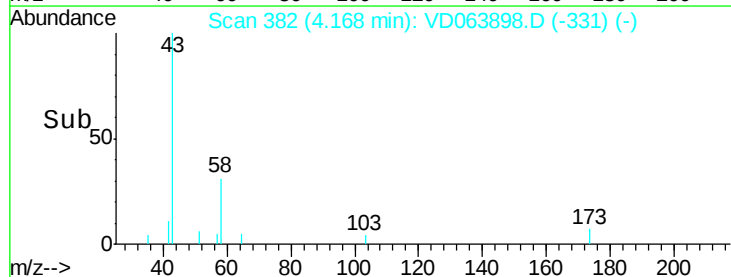
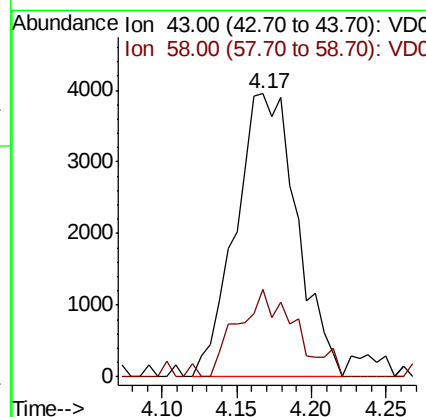
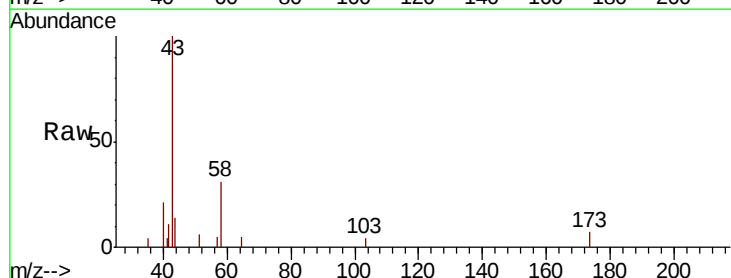
RT: 4.17 min Scan# 382

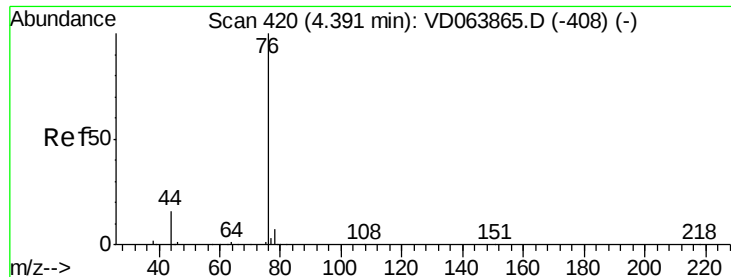
Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion:	43	Resp:	11275
Ion	Ratio	Lower	Upper
43	100		
58	31.0	26.2	39.4





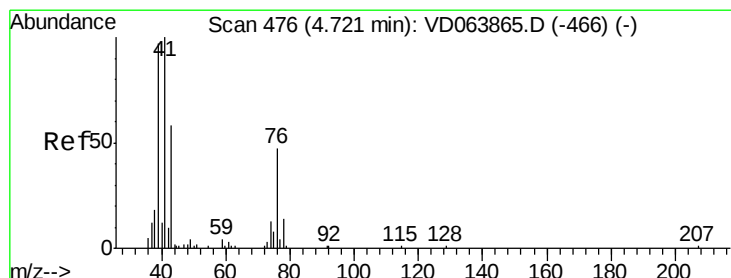
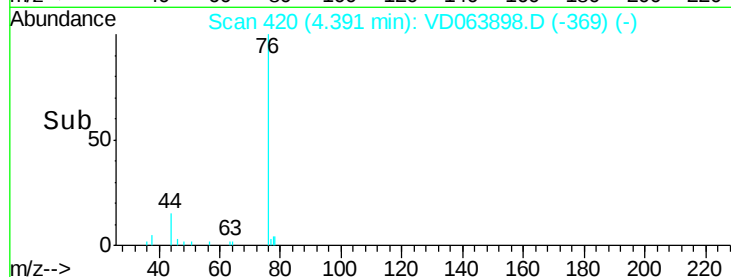
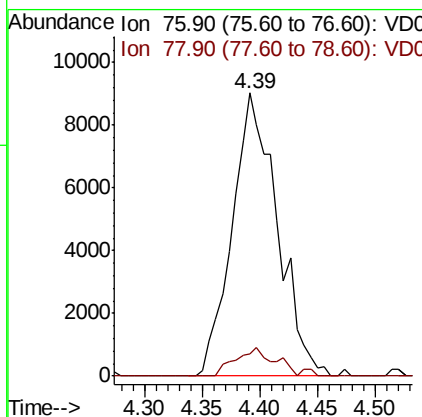
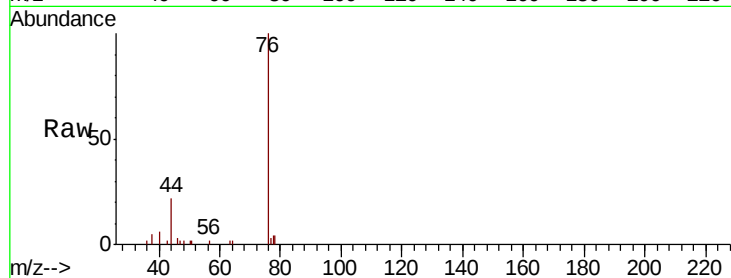
#17
Carbon Disulfide
Concen: 4.361 ug/l
RT: 4.39 min Scan# 420
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion: 76 Resp: 24567
Ion Ratio Lower Upper
76 100
78 7.9 5.8 8.8

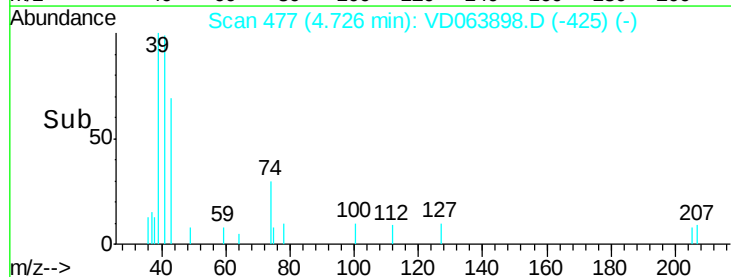
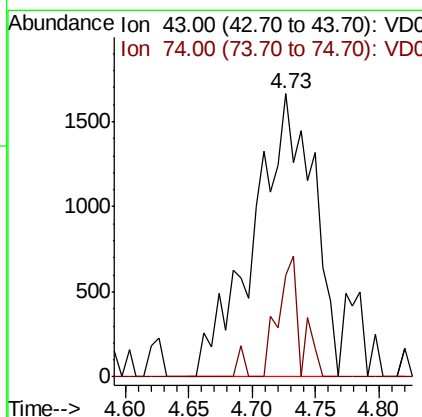
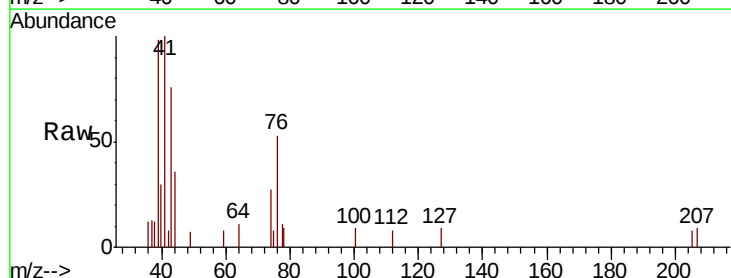
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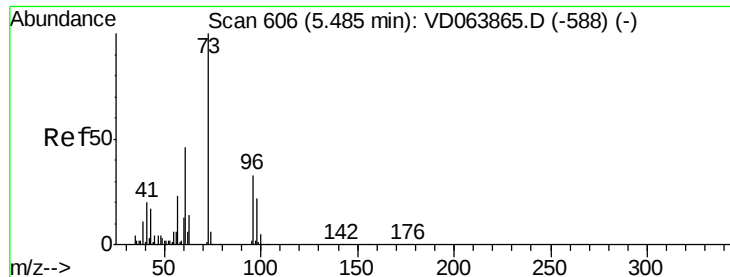
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#18
Methyl Acetate
Concen: 5.951 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 43 Resp: 5455
Ion Ratio Lower Upper
43 100
74 16.0 20.8 31.2#





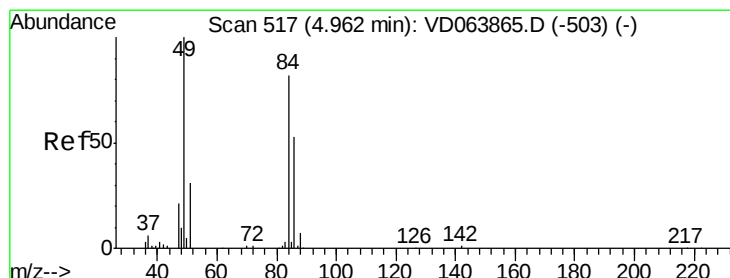
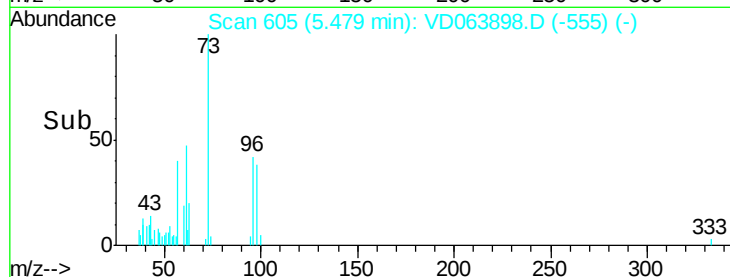
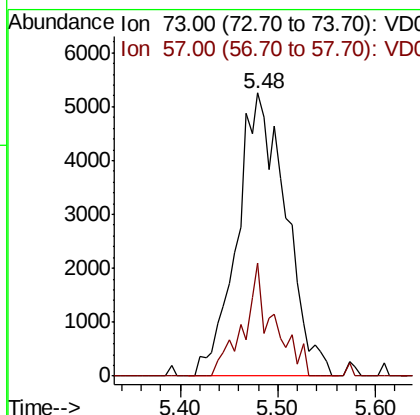
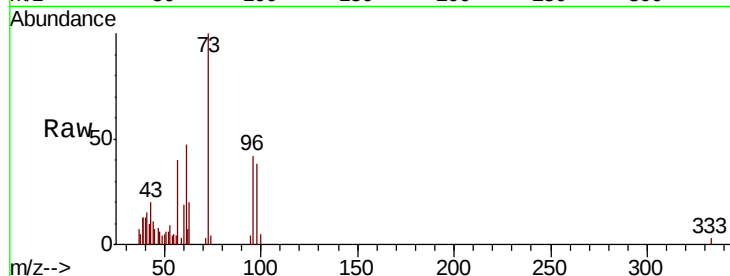
#19
Methvl tert-butvl Ether
Concen: 4.578 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion: 73 Resp: 18372
Ion Ratio Lower Upper
73 100
57 40.1 18.1 27.1#

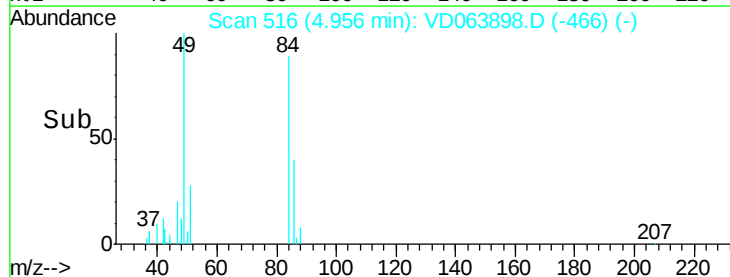
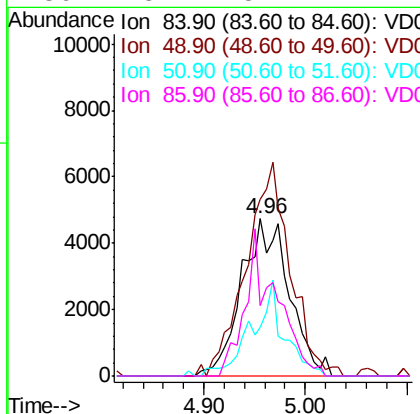
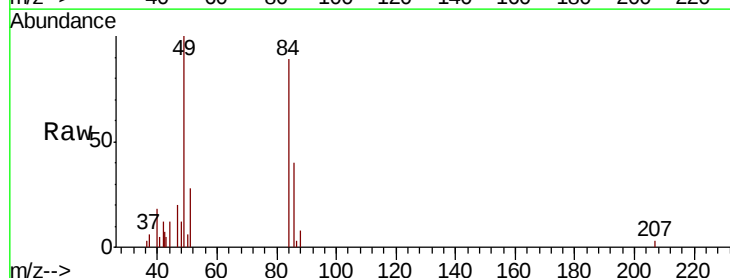
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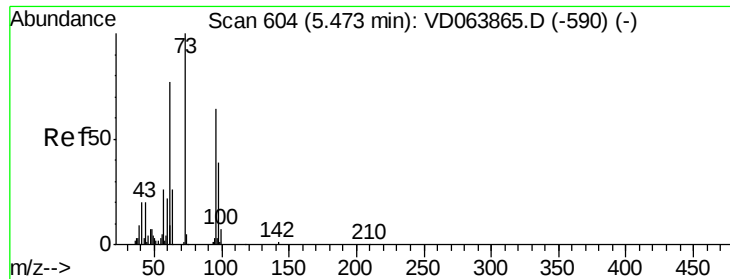
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#20
Methylene Chloride
Concen: 6.441 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 84 Resp: 15493
Ion Ratio Lower Upper
84 100
49 112.4 97.3 145.9
51 31.1 30.1 45.1
86 45.2 51.4 77.2#





#21

trans-1,2-Dichloroethene

Concen: 4.640 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

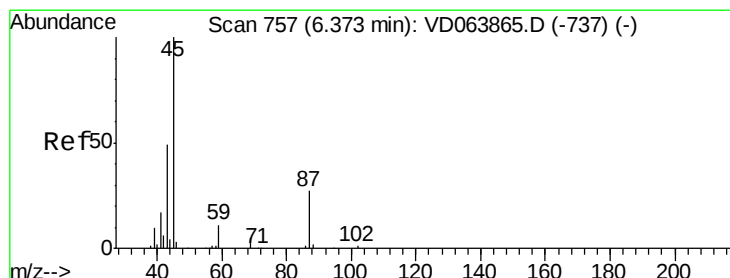
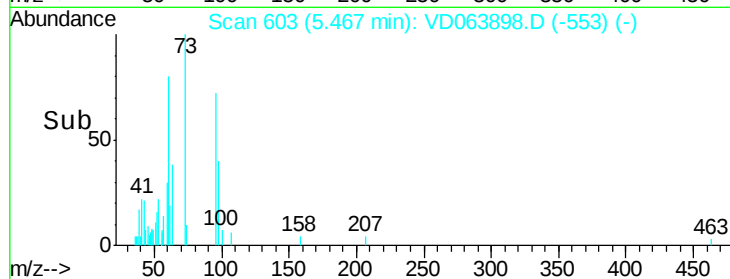
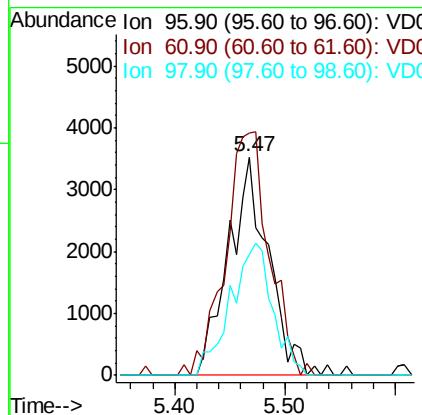
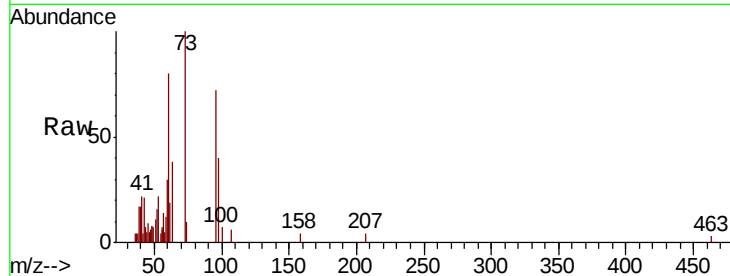
ClientSampleId :

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

Tot Ion:	96	Resp:	8952
Ion	Ratio	Lower	Upper
96	100		
61	110.9	96.6	145.0
98	55.1	48.7	73.1

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#22

Diisopropyl ether

Concen: 4.634 ug/l

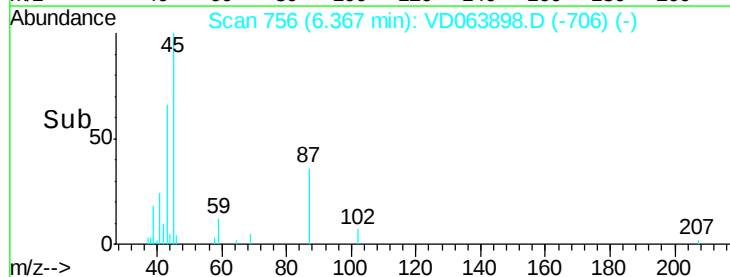
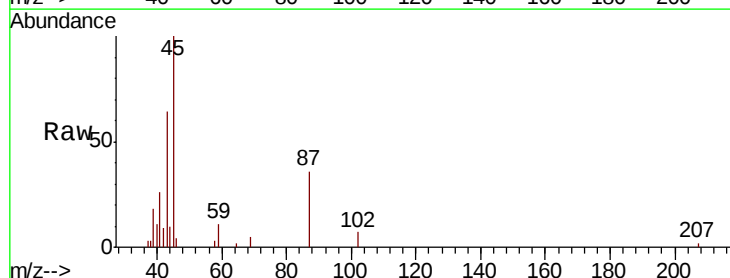
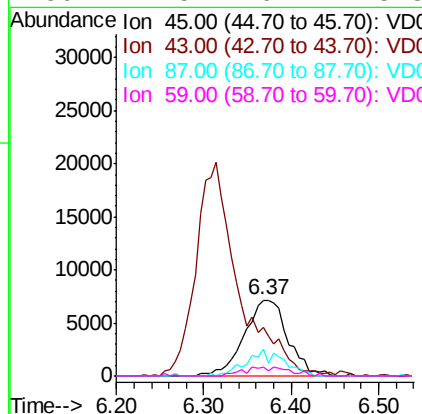
RT: 6.37 min Scan# 756

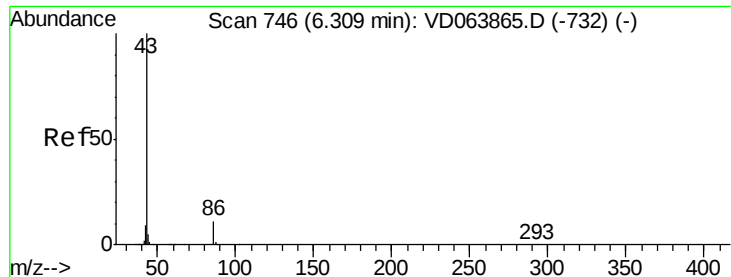
Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion:	45	Resp:	24382
Ion	Ratio	Lower	Upper
45	100		
43	57.9	41.2	61.8
87	35.6	22.2	33.4#
59	11.5	9.2	13.8





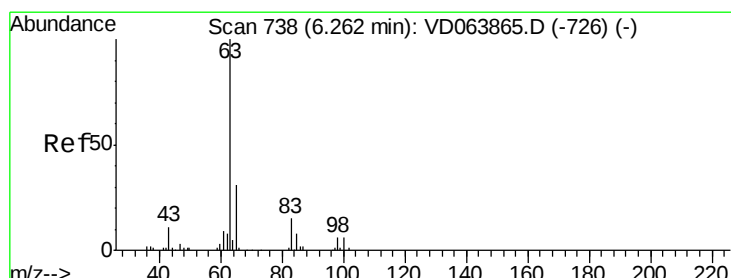
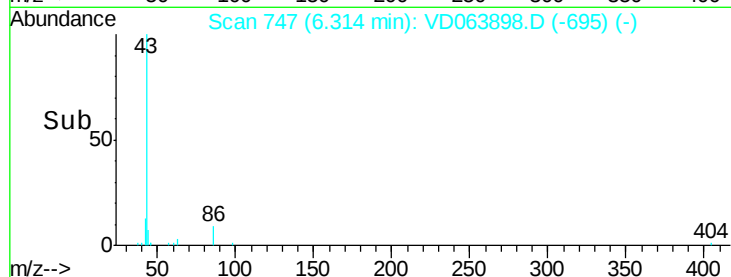
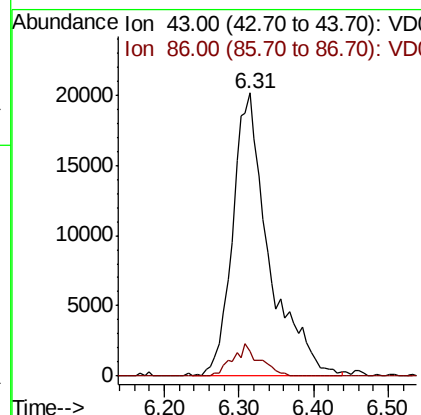
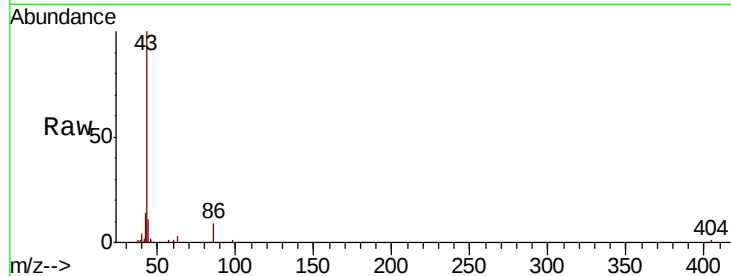
#23
 Vinyl Acetate
 Concen: 21.791 ug/l
 RT: 6.31 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
43	100		
86	8.7	8.8	13.2#

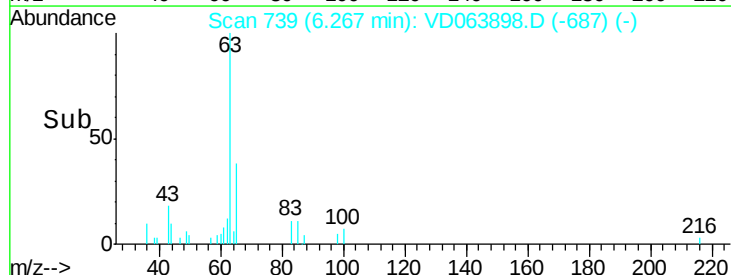
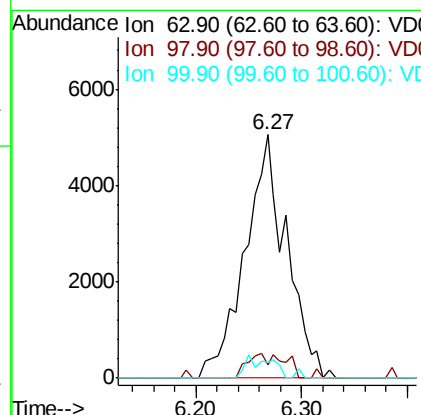
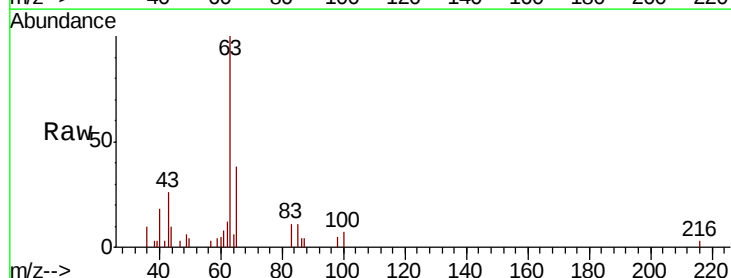
Manual Integrations
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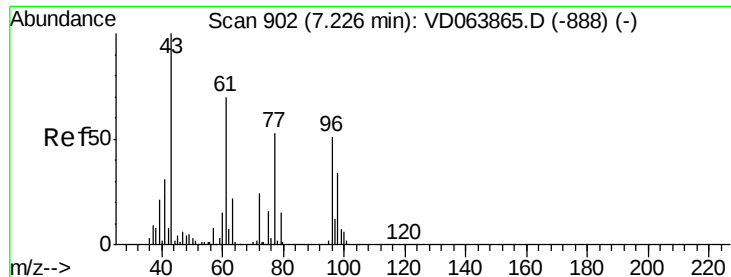
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 10/10/2019 1:46:14 PM



#24
 1,1-Dichloroethane
 Concen: 4.255 ug/l
 RT: 6.27 min Scan# 739
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.5	3.1	9.4
100	6.7	3.0	9.2





#25

2-Butanone

Concen: 24.967 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion: 43 Resp: 13868

Ion Ratio Lower Upper

43 100

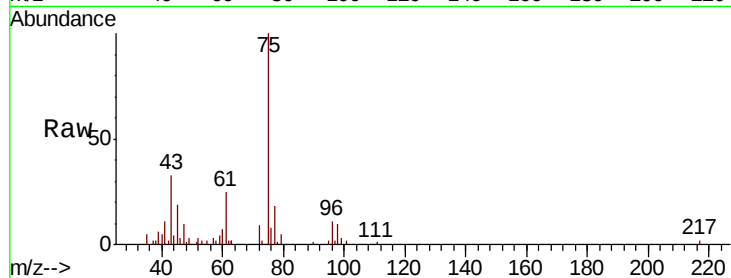
72 28.0 19.2 28.8

Manual Integrations

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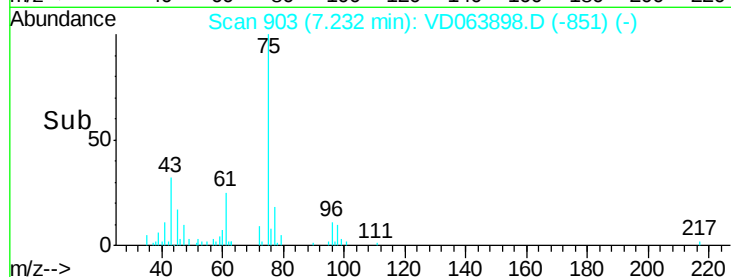
10/10/2019 1:46:14 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

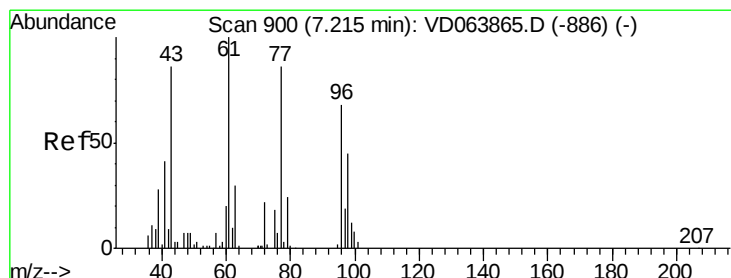
Time-->



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

Time-->



#26

2,2-Dichloropropane

Concen: 5.005 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD063898.D

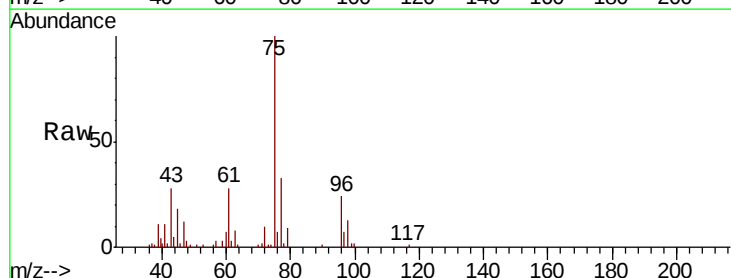
Acq: 07 Oct 2019 14:06

Tgt Ion: 77 Resp: 14674

Ion Ratio Lower Upper

77 100

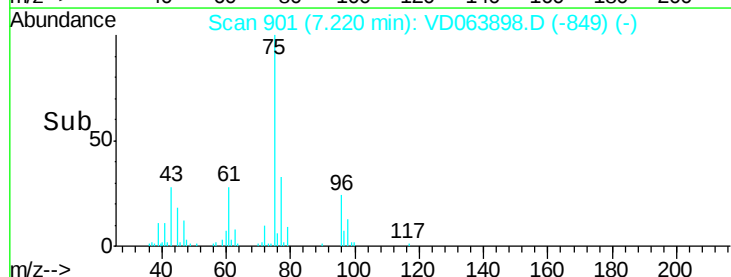
97 20.6 11.4 34.1

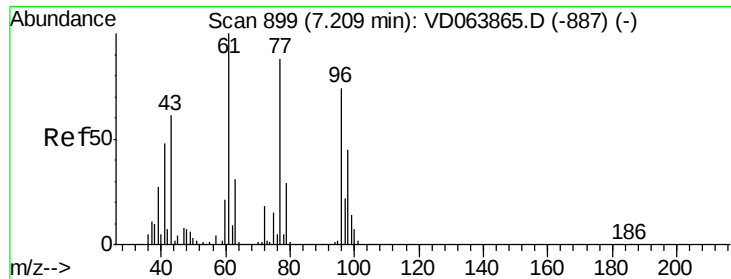


Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

Time-->





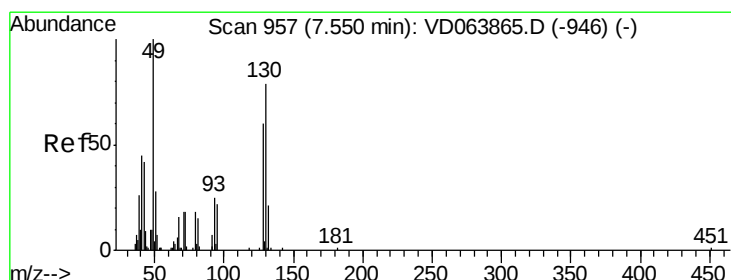
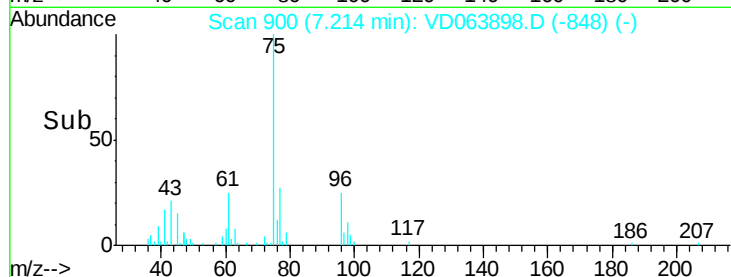
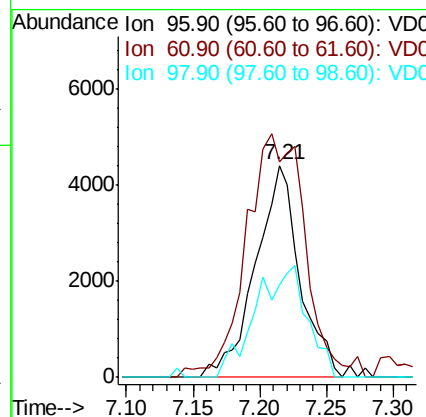
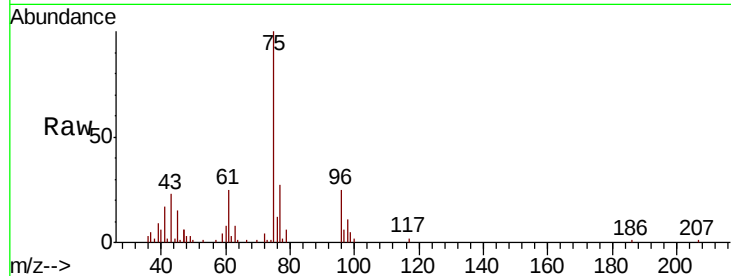
#27
 cis-1,2-Dichloroethene
 Concen: 4.658 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	280.0
98	61.6	0.0	130.4

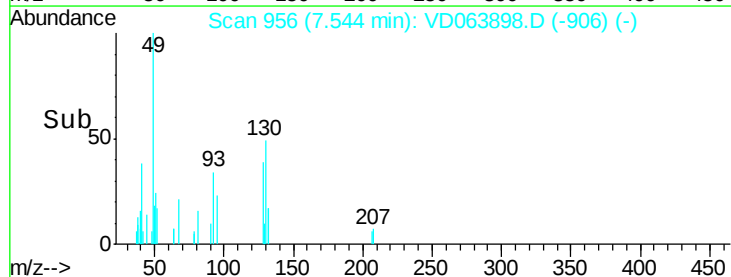
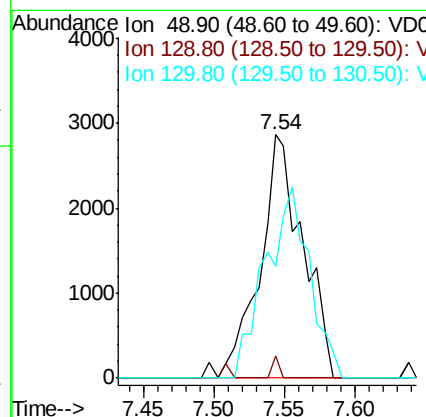
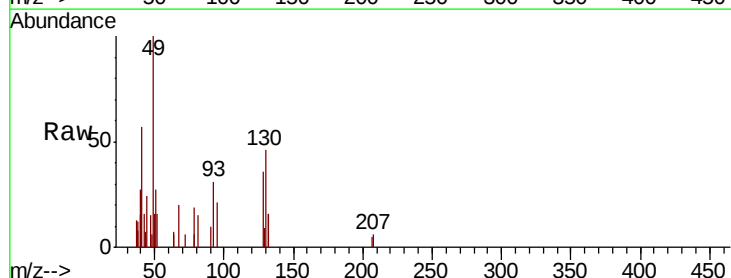
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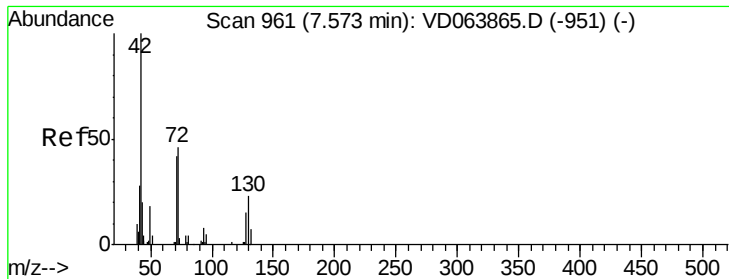
MMDadoda
 10/10/2019 1:46:14 PM



#28
 Bromochloromethane
 Concen: 5.050 ug/l
 RT: 7.54 min Scan# 956
 Delta R.T. -0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	5.6
130	79.9	66.8	100.2





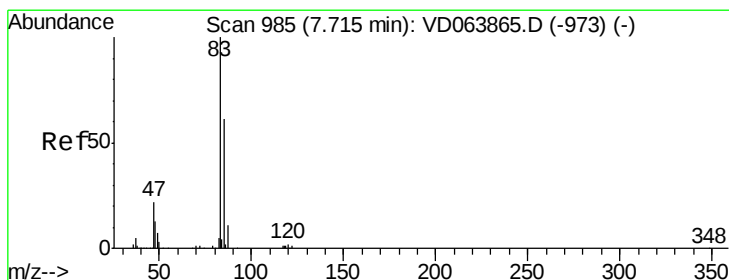
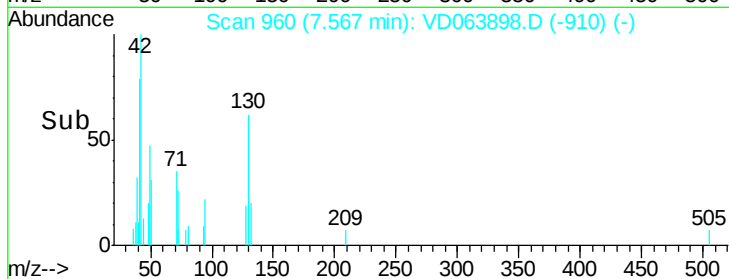
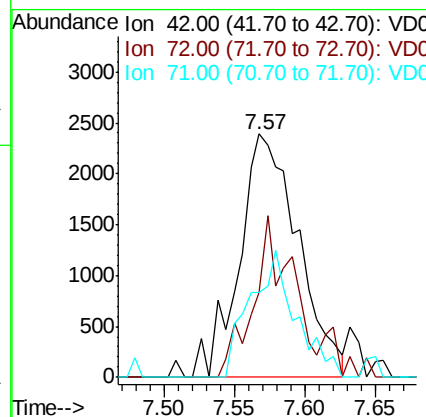
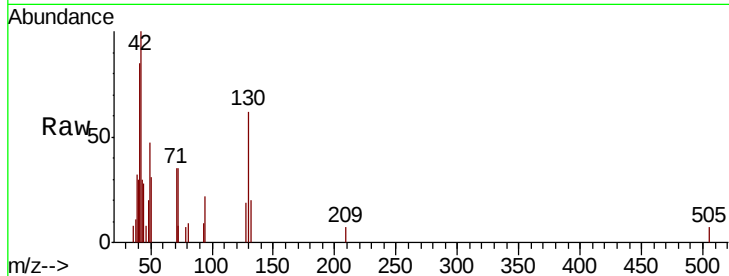
#29
Tetrahydrofuran
Concen: 21.493 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion: 42 Resp: 6968
Ion Ratio Lower Upper
42 100
72 43.6 37.6 56.4
71 40.7 35.0 52.6

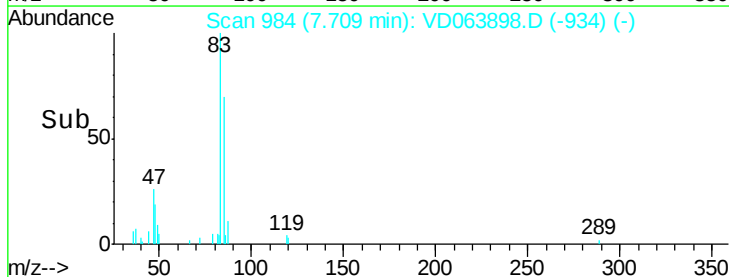
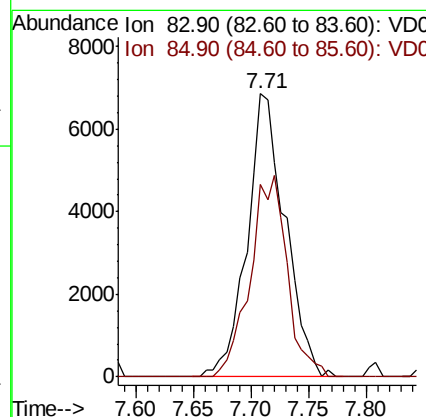
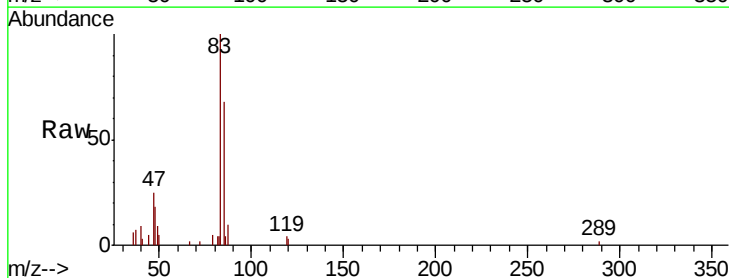
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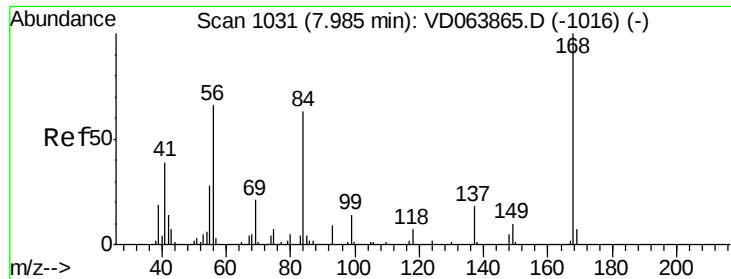
MMDadoda
10/10/2019 1:46:14 PM



#30
Chloroform
Concen: 4.465 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 83 Resp: 15716
Ion Ratio Lower Upper
83 100
85 68.0 48.9 73.3





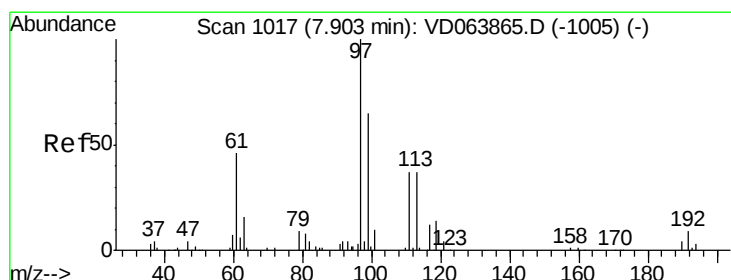
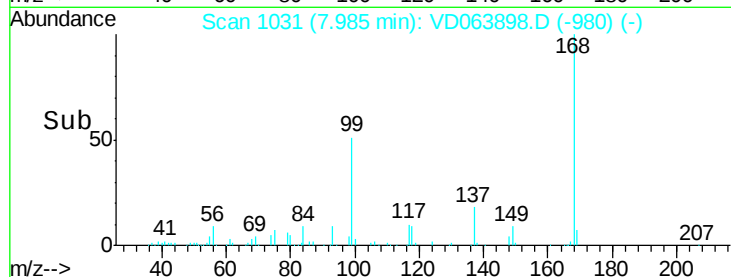
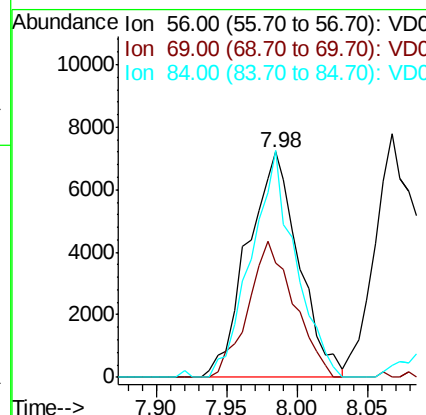
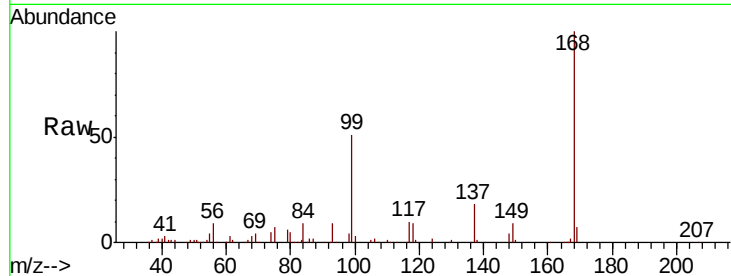
#31
Cyclohexane
Concen: 6.002 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	50.5	25.0	37.4#	
84	100.7	76.3	114.5	

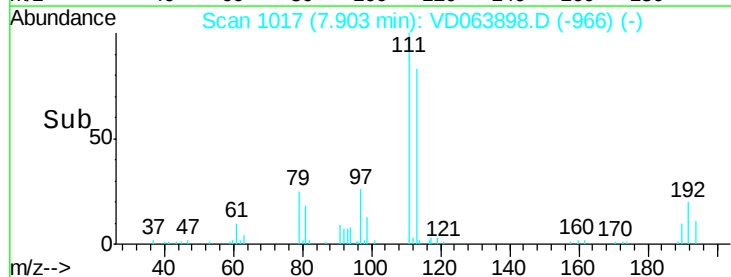
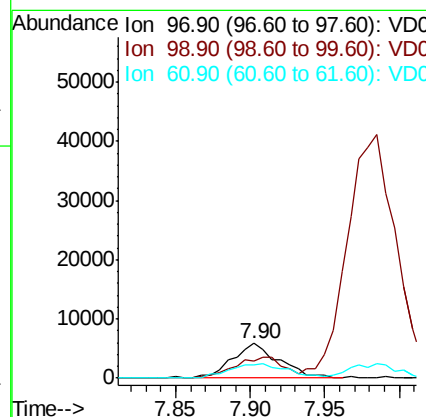
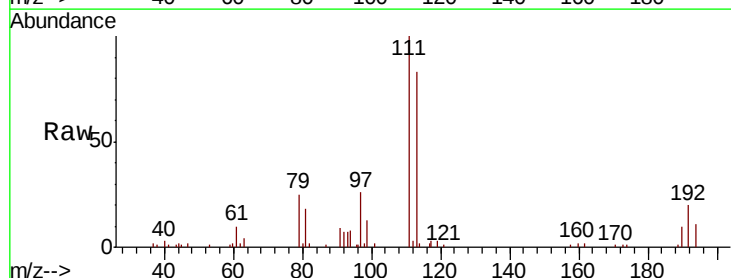
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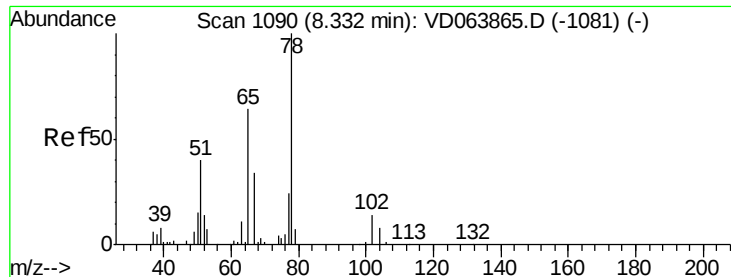
MMDadoda
10/10/2019 1:46:14 PM



#32
1,1,1-Trichloroethane
Concen: 4.248 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	64.3	52.4	78.6	
61	50.0	33.8	50.8	





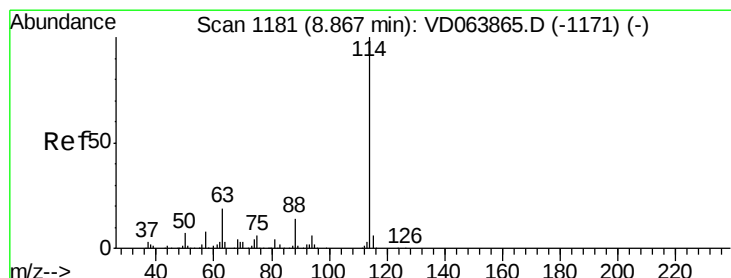
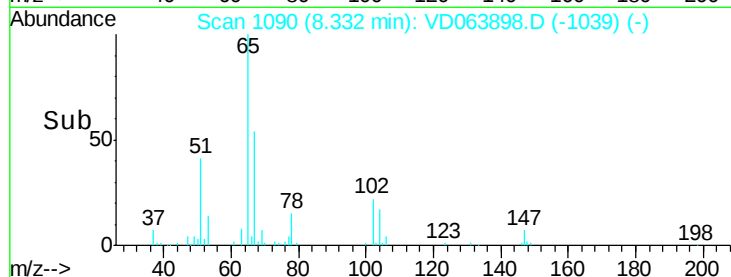
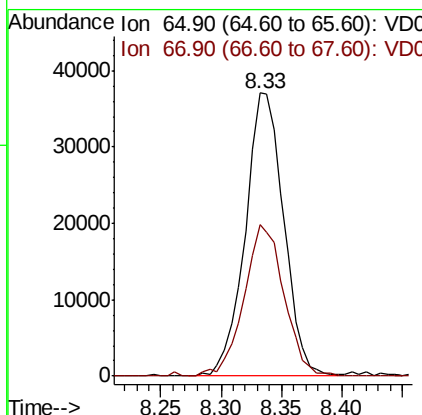
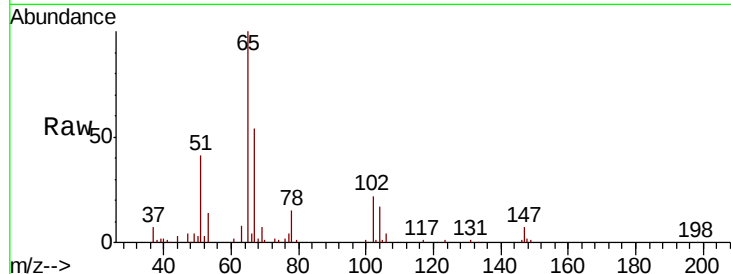
#33
 1,2-Dichloroethane-d4
 Concen: 45.612 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	82111		
67	55.6	0.0	106.4	

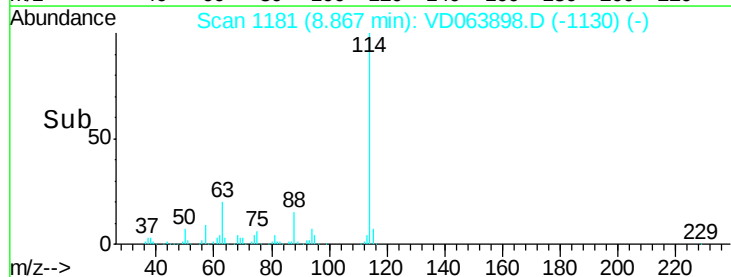
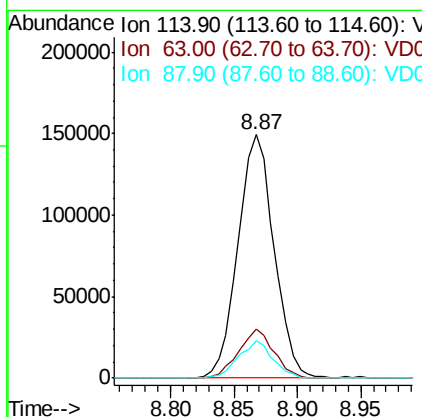
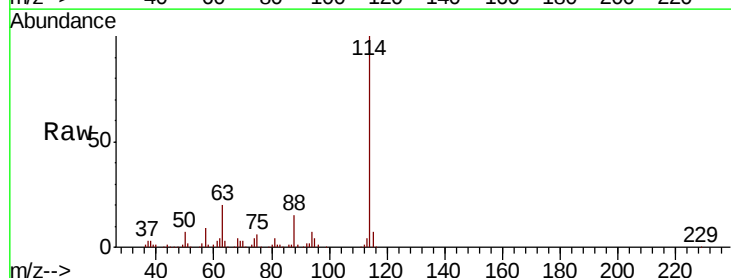
Manual Integrations
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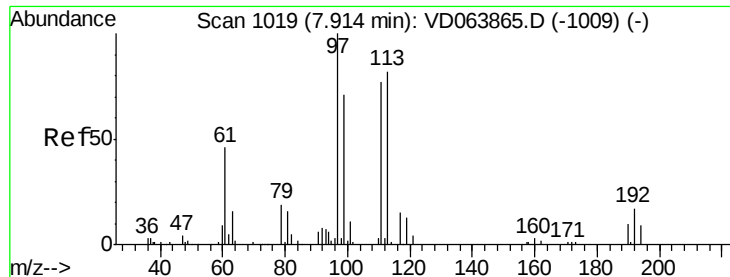
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	295168		
63	20.0	0.0	38.4	
88	15.4	0.0	27.4	





#35

Dibromofluoromethane

Concen: 45.248 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

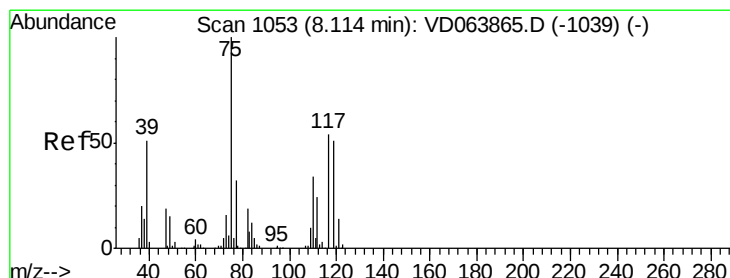
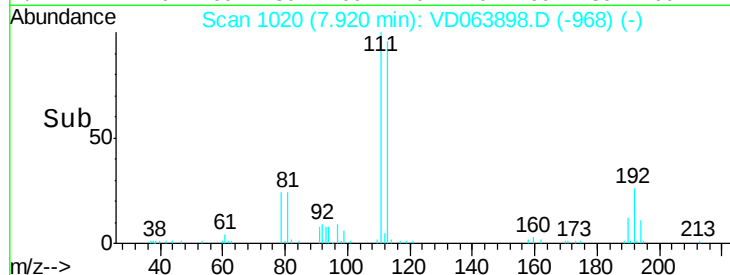
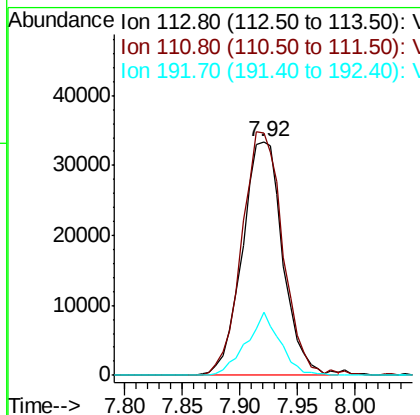
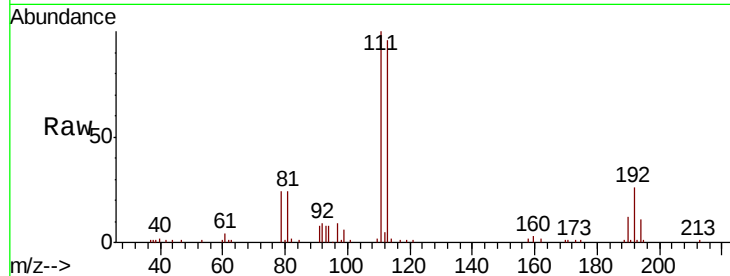
ClientSampleId :

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

Tot Ion:	113	Resp:	81622
Ion Ratio	Lower	Upper	
113	100		
111	105.5	82.6	123.8
192	22.3	17.1	25.7

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 4.894 ug/l

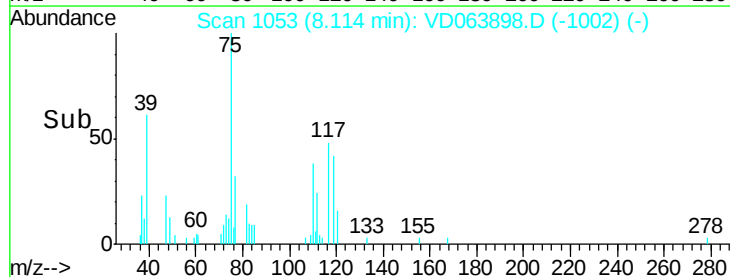
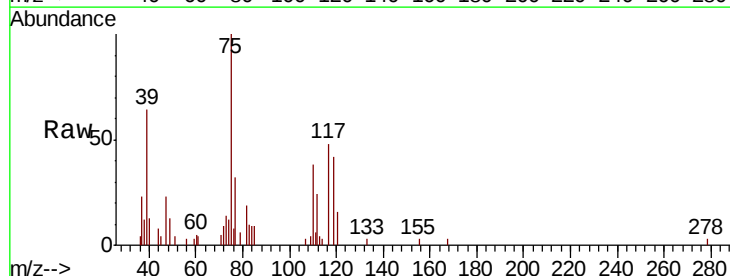
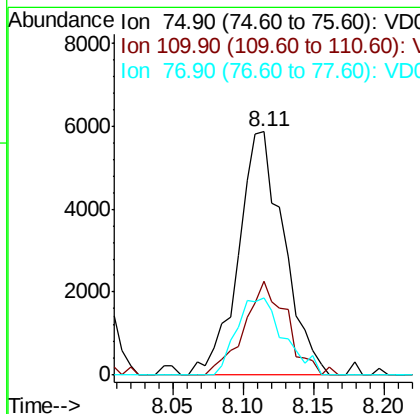
RT: 8.11 min Scan# 1053

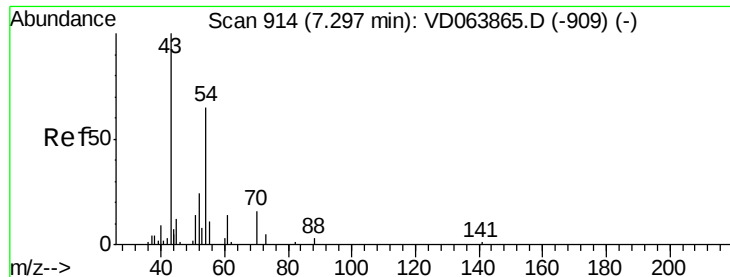
Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion:	75	Resp:	13209
Ion Ratio	Lower	Upper	
75	100		
110	36.3	17.4	52.3
77	33.0	25.4	38.0





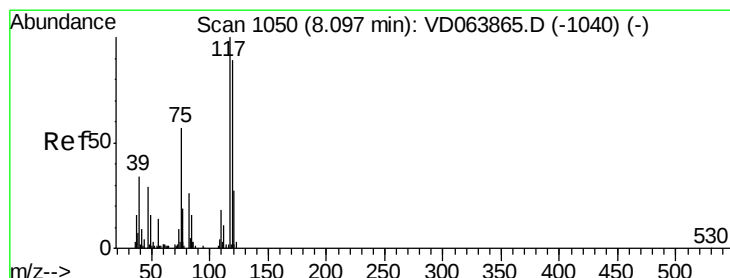
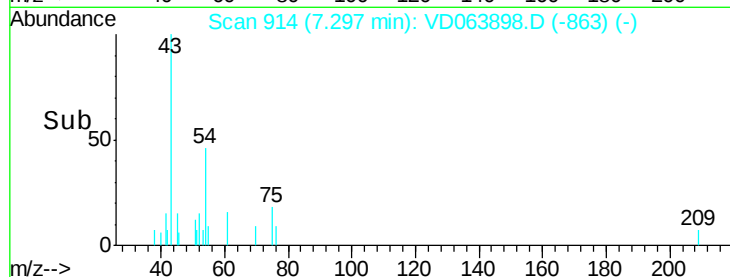
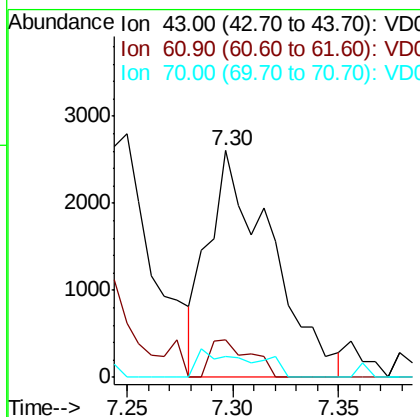
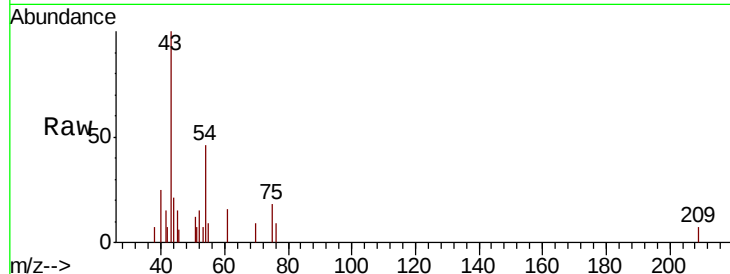
#37
Ethyl Acetate
Concen: 4.404 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	10.5	11.5	17.3#
70	10.4	8.2	12.4

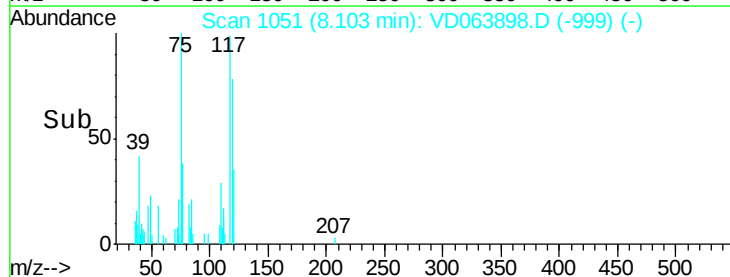
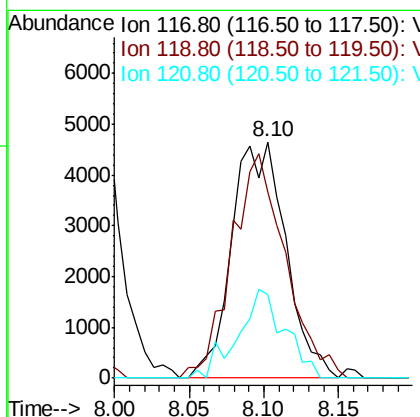
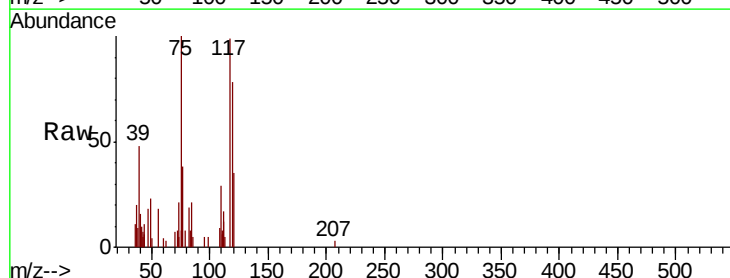
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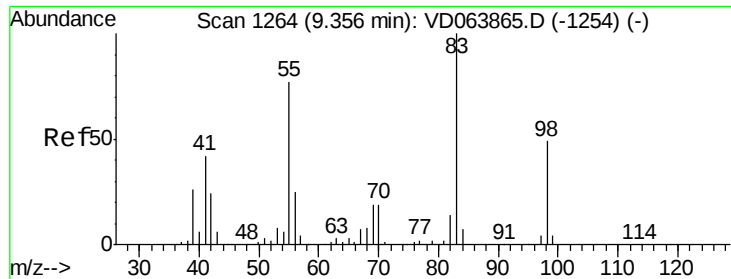
MMDadoda
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#38
Carbon Tetrachloride
Concen: 4.296 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	75.8	70.8	106.2
121	35.3	21.4	32.0#





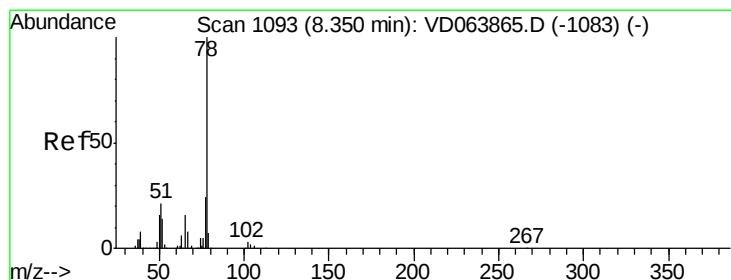
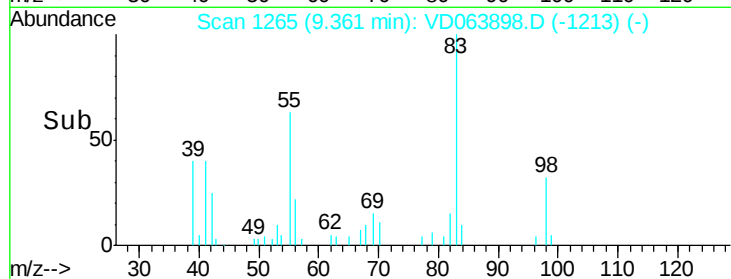
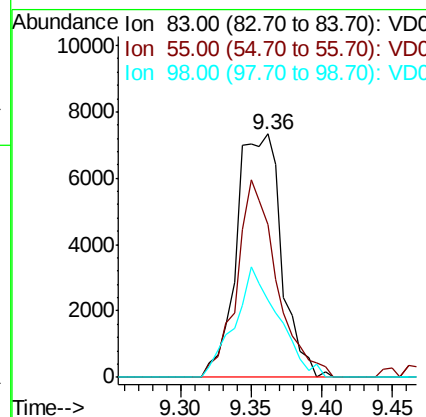
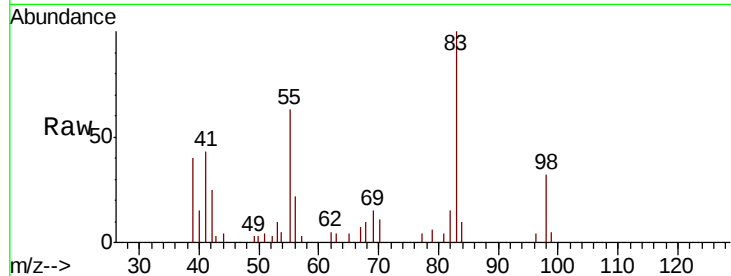
#39
Methvlcvclohexane
Concen: 4.899 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	63.0	61.3	91.9
98	31.9	39.3	58.9#

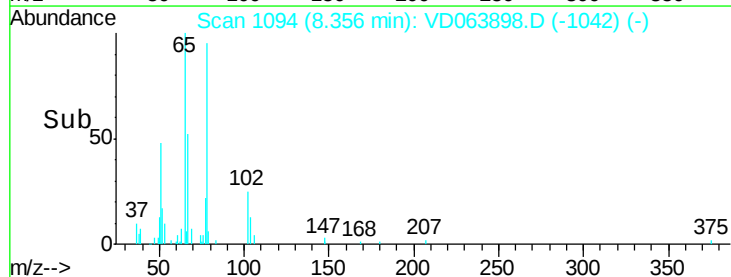
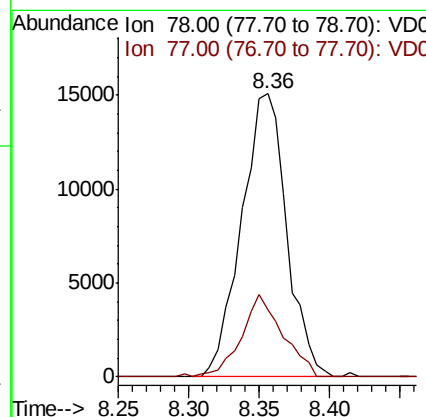
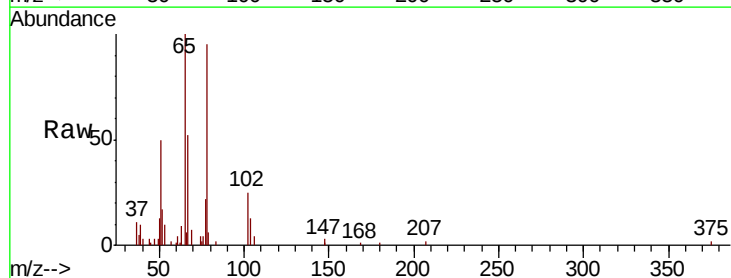
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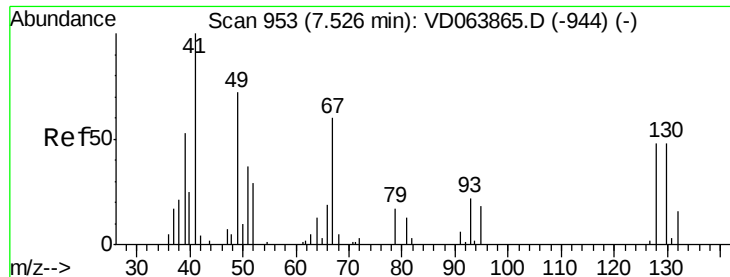
MMDadoda
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#40
Benzene
Concen: 4.374 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6





#41

Methacrylonitrile

Concen: 3.449 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion: 41 Resp: 2158

Ion Ratio Lower Upper

41 100

39 0.0 52.6 78.8#

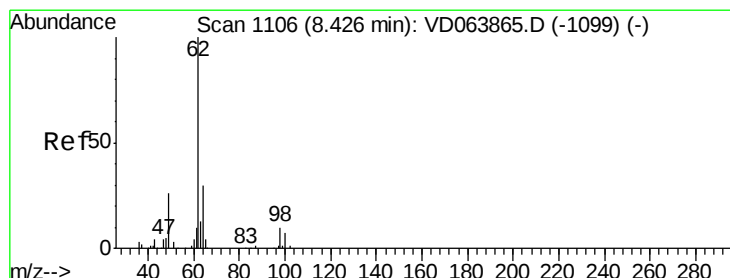
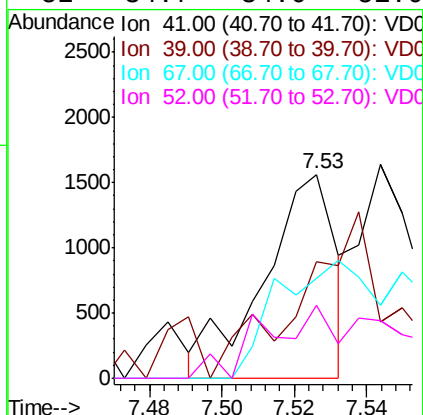
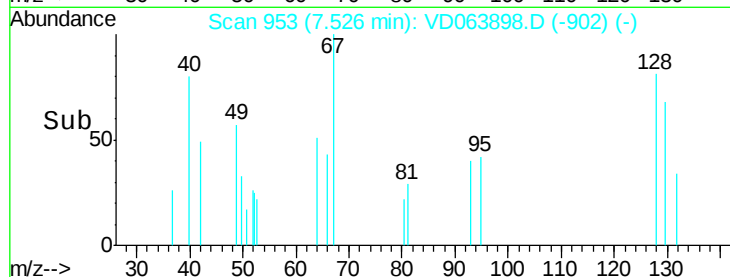
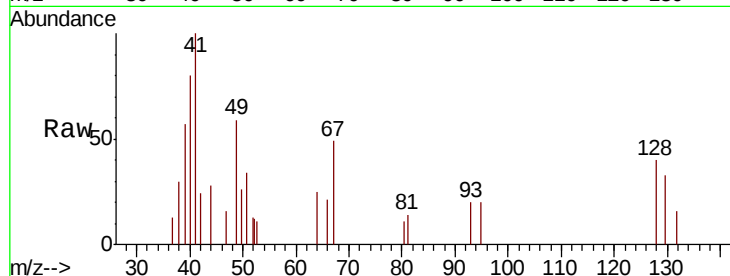
67 0.0 74.2 111.2#

52 34.7 34.0 51.0

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 4.294 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VD063898.D

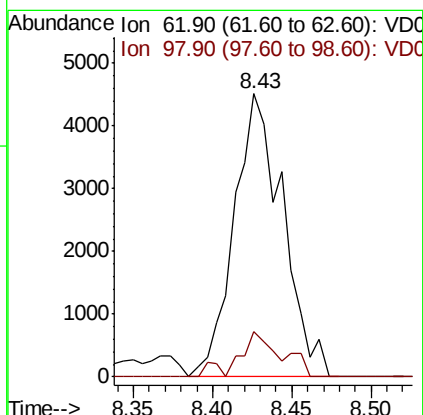
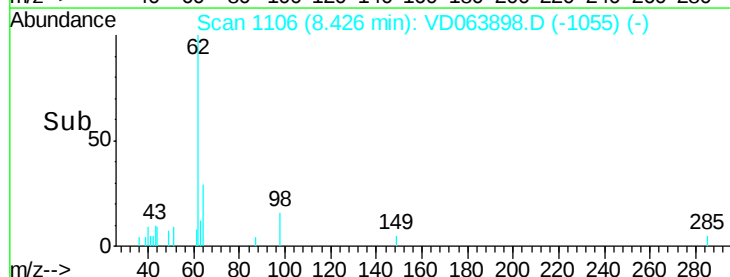
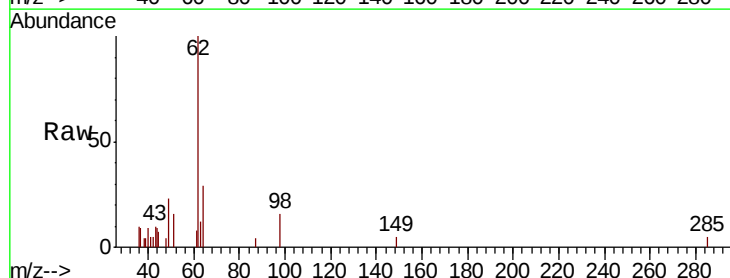
Acq: 07 Oct 2019 14:06

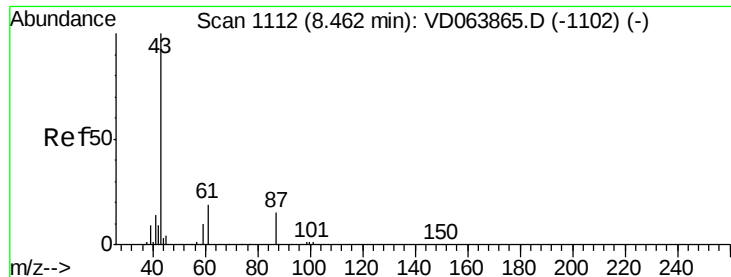
Tgt Ion: 62 Resp: 9606

Ion Ratio Lower Upper

62 100

98 12.3 0.0 20.0





#43

Isopropyl Acetate

Concen: 4.521 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

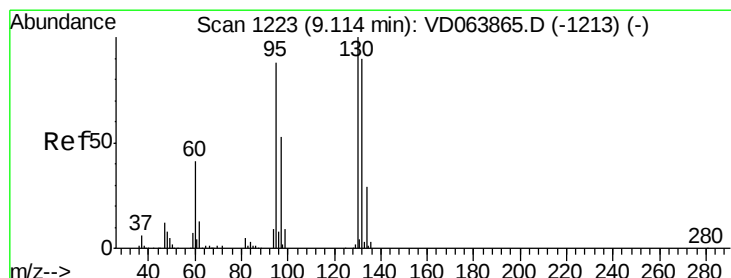
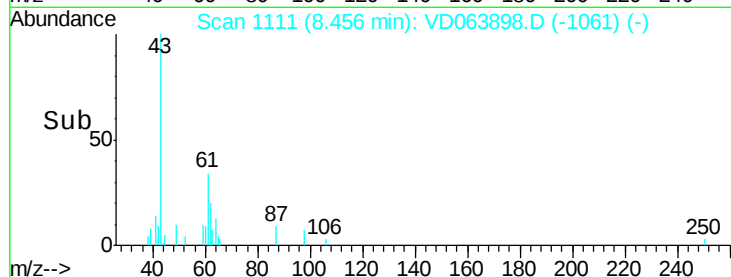
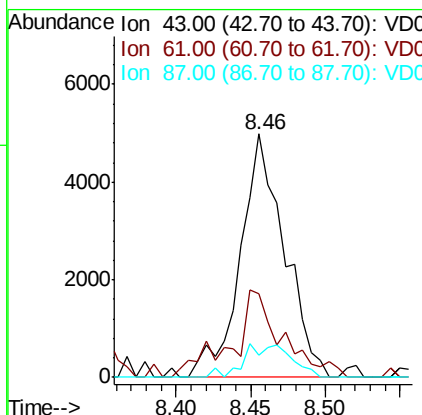
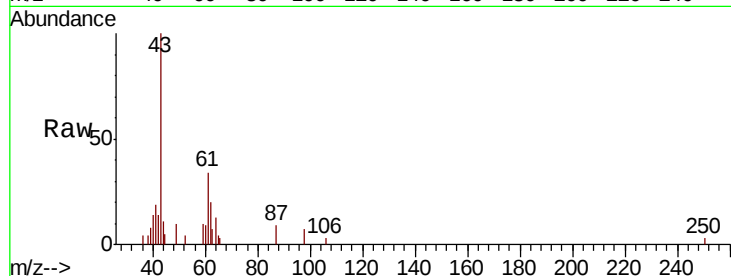
ClientSampleId :

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

Tot Ion:	43	Resp:	10233
Ion	Ratio	Lower	Upper
43	100		
61	30.0	25.7	38.5
87	13.6	11.6	17.4

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#44

Trichloroethene

Concen: 4.471 ug/l

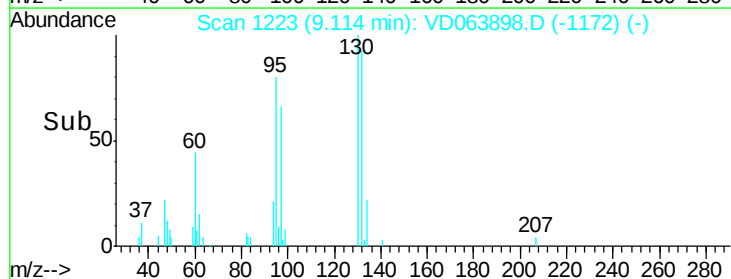
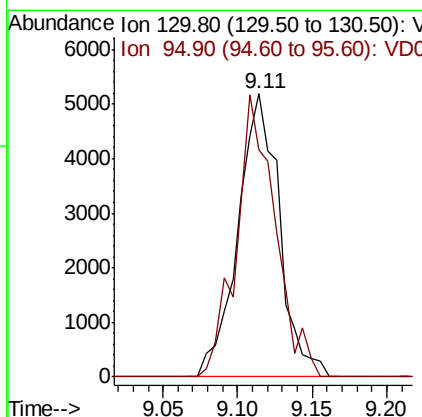
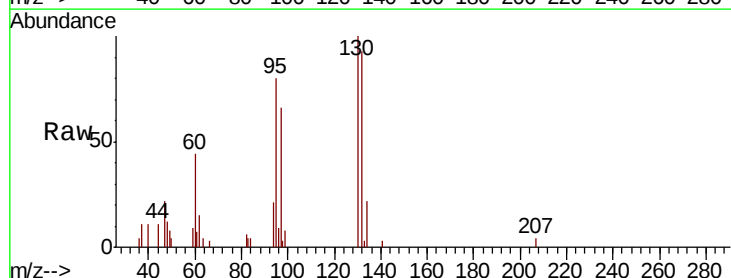
RT: 9.11 min Scan# 1223

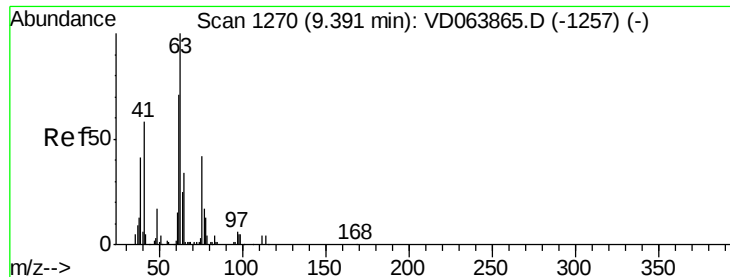
Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion:	130	Resp:	9971
Ion	Ratio	Lower	Upper
130	100		
95	80.0	0.0	175.6





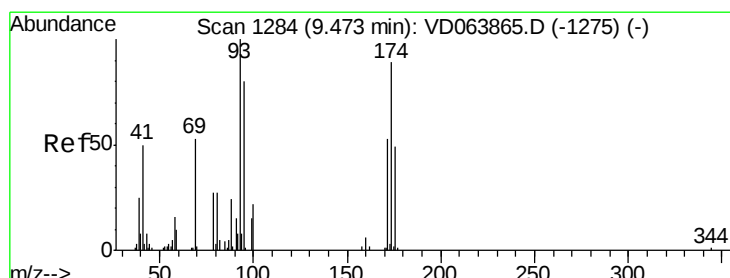
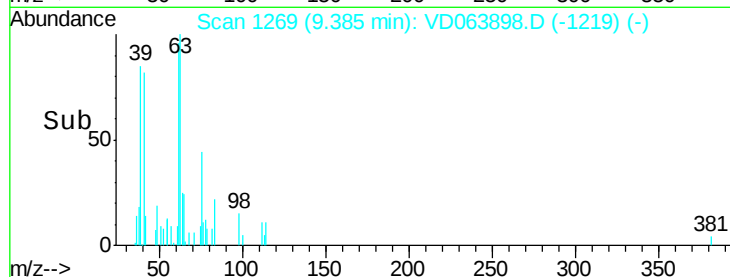
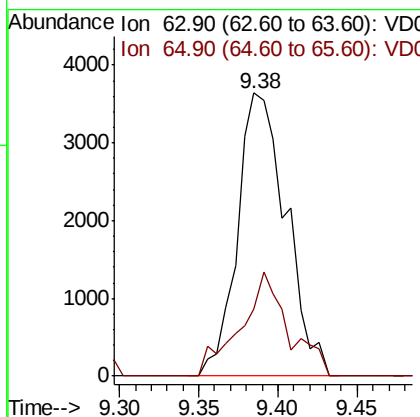
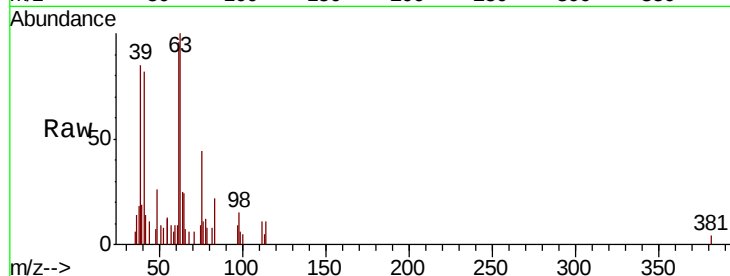
#45
 1,2-Dichloropropane
 Concen: 4.093 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion: 63 Resp: 7749
 Ion Ratio Lower Upper
 63 100
 65 23.7 27.3 40.9#

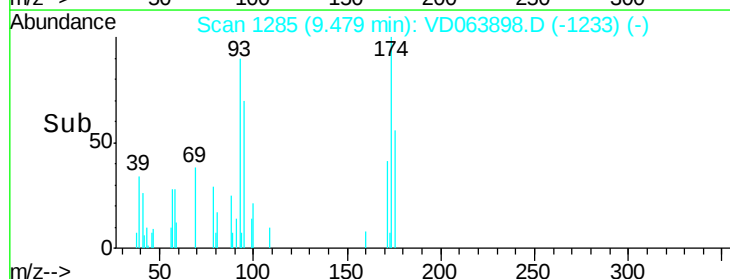
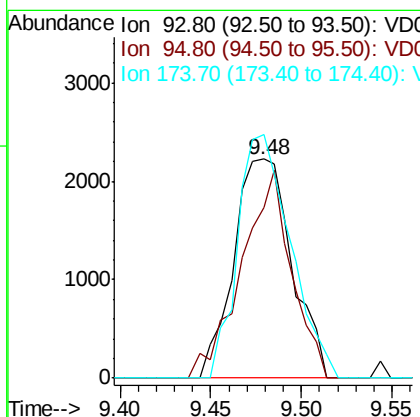
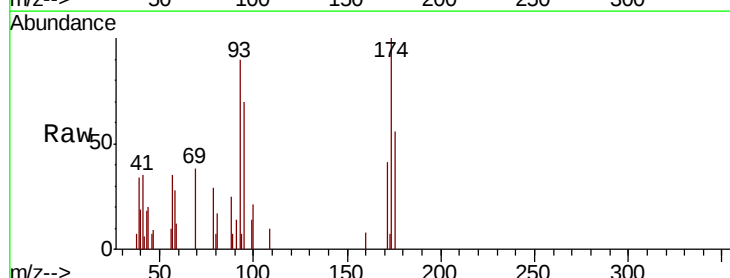
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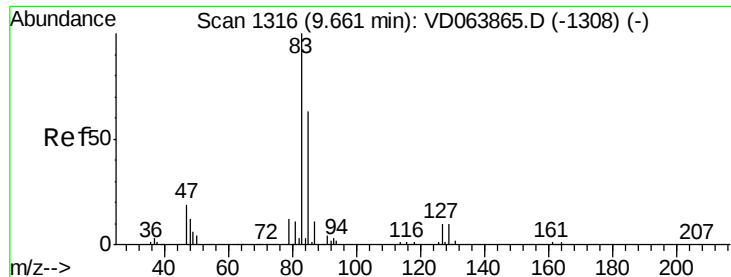
MMDadoda
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#46
 Dibromomethane
 Concen: 4.613 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion: 93 Resp: 4973
 Ion Ratio Lower Upper
 93 100
 95 81.3 66.0 99.0
 174 101.1 83.4 125.0





#47

Bromodichloromethane

Concen: 4.168 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

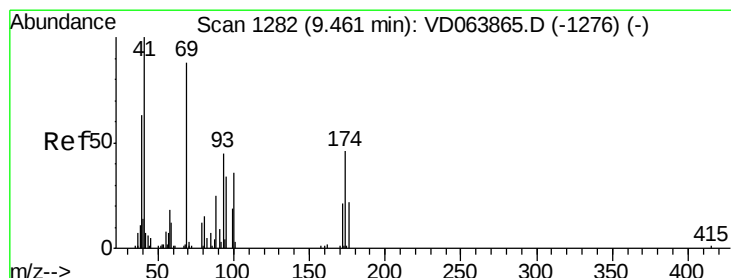
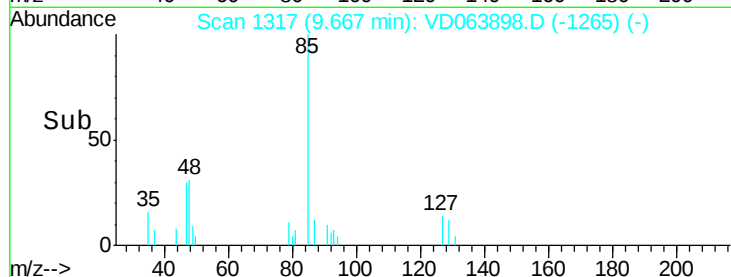
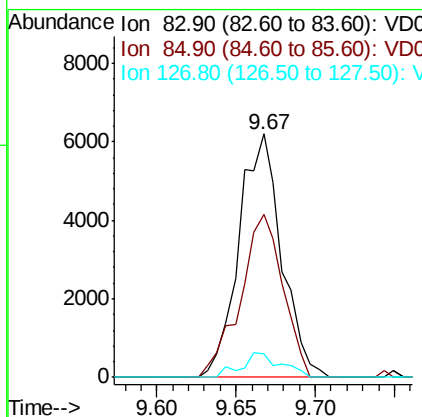
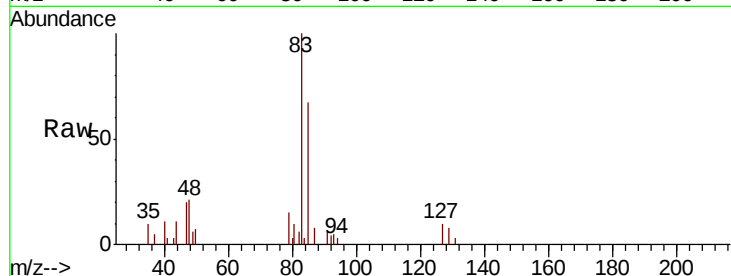
ClientSampleId :

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

Tot Ion:	83	Resp:	11569
Ion	Ratio	Lower	Upper
83	100		
85	67.0	50.2	75.2
127	9.6	7.6	11.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.460 ug/l

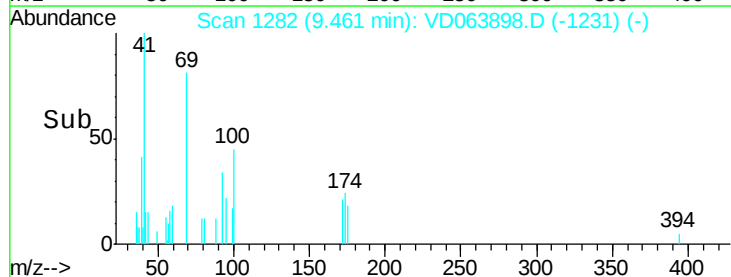
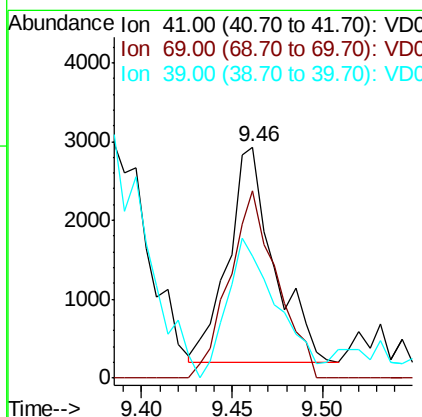
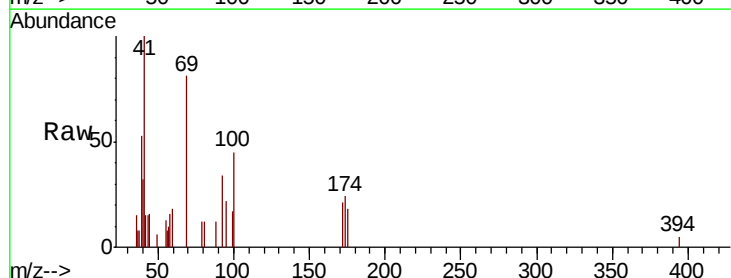
RT: 9.46 min Scan# 1282

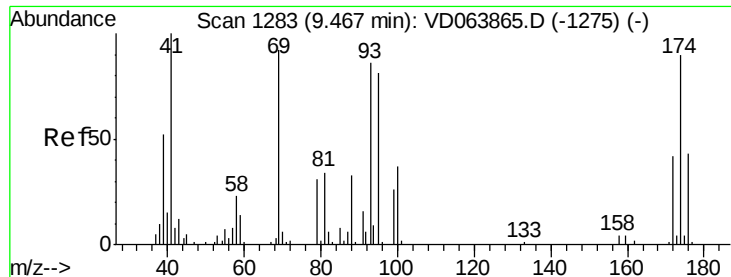
Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion:	41	Resp:	4837
Ion	Ratio	Lower	Upper
41	100		
69	90.0	75.1	112.7
39	70.3	50.2	75.2





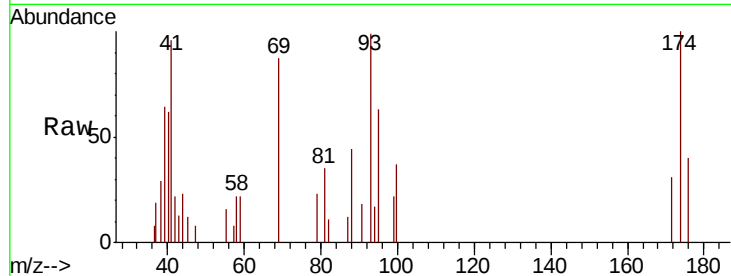
#49
1,4-Dioxane
Concen: 98.805 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

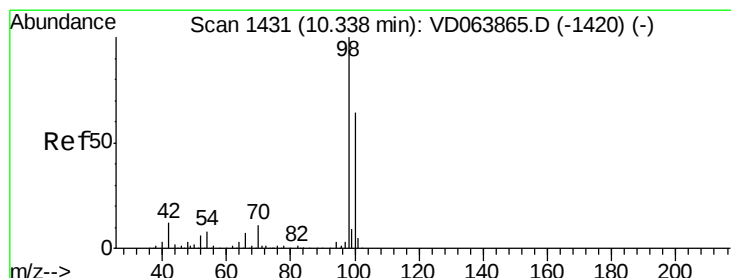
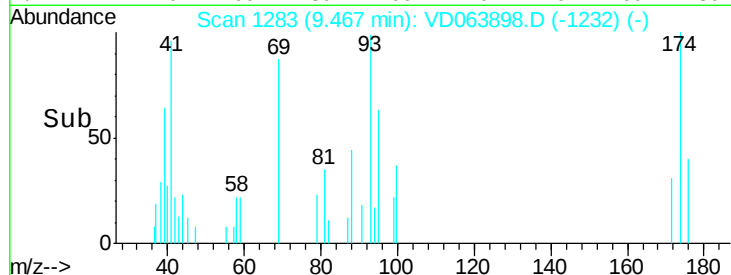
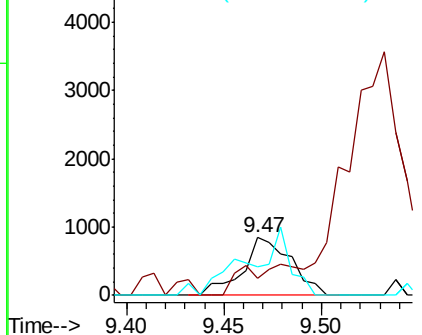
Tot Ion	Ratio	Lower	Upper
88	100		
43	24.4	27.6	41.4#
58	53.0	54.1	81.1#

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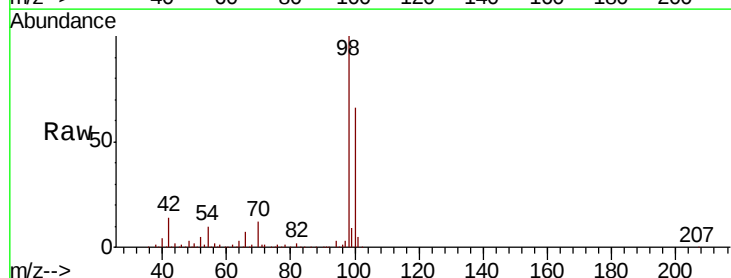


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

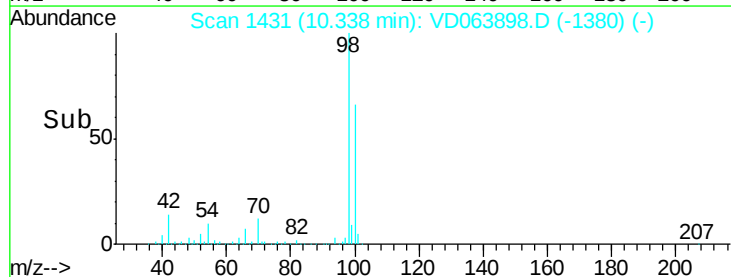
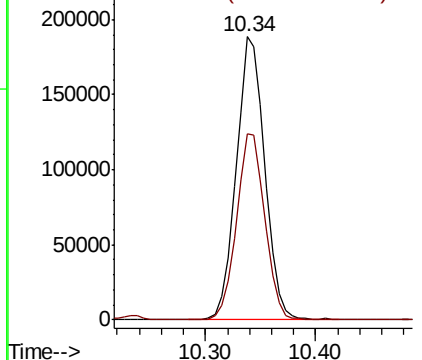


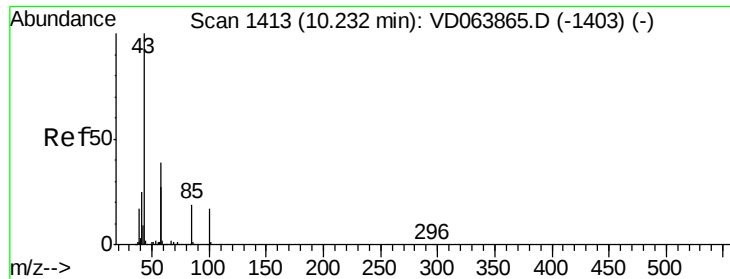
#50
Toluene-d8
Concen: 46.592 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.1	78.1



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





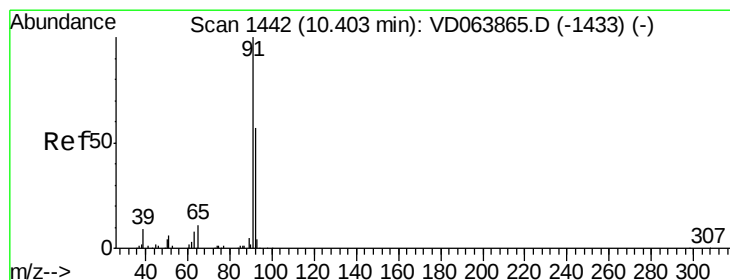
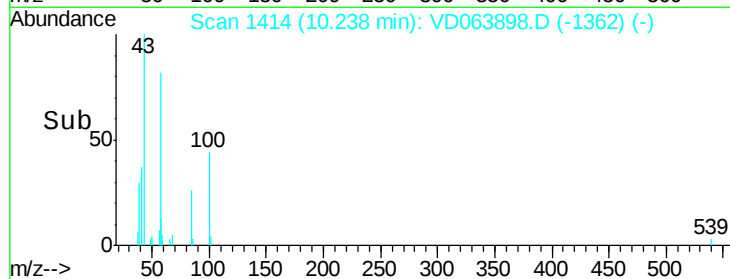
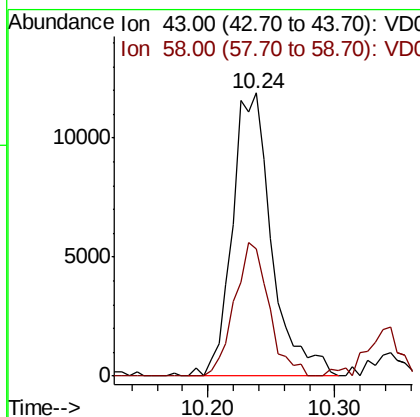
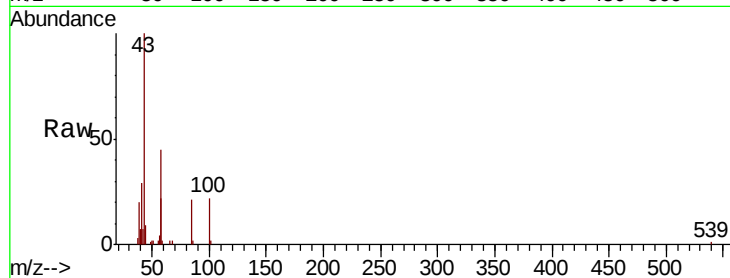
#51
4-Methyl-2-Pentanone
Concen: 21.765 ug/l
RT: 10.24 min Scan# 1414
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion: 43 Resp: 25548
Ion Ratio Lower Upper
43 100
58 41.4 33.0 49.4

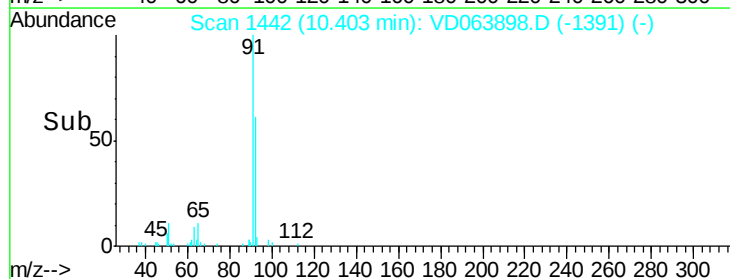
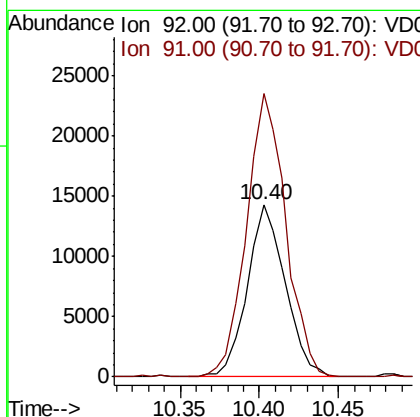
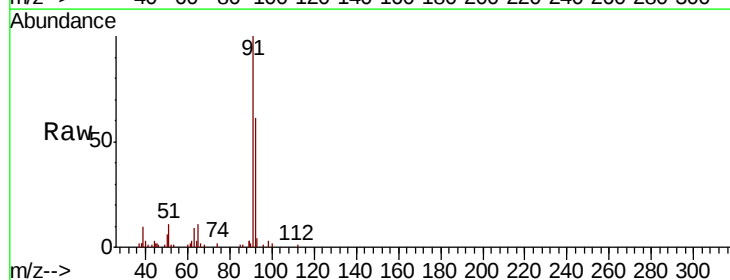
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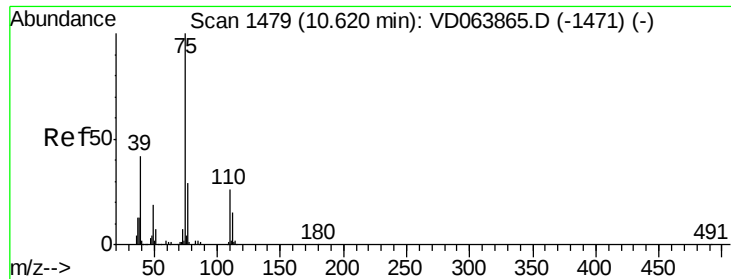
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#52
Toluene
Concen: 4.481 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 92 Resp: 23788
Ion Ratio Lower Upper
92 100
91 170.0 139.5 209.3





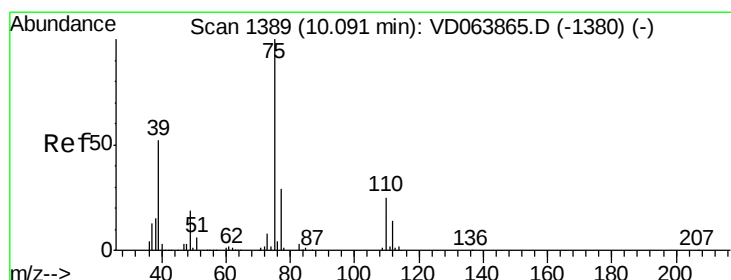
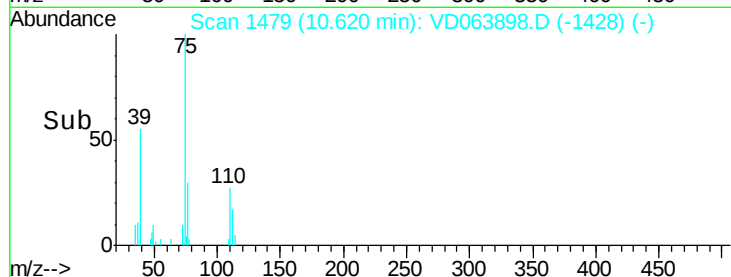
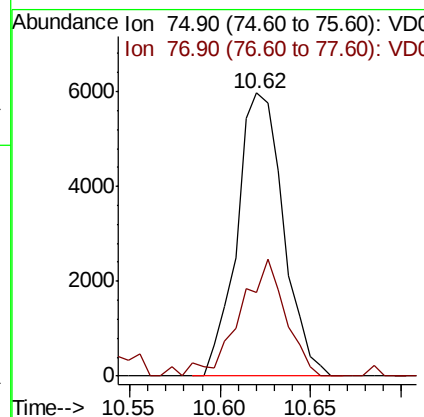
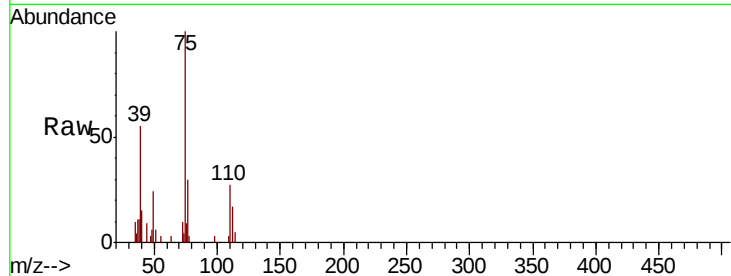
#53
t-1,3-Dichloropropene
Concen: 3.930 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion: 75 Resp: 10644
Ion Ratio Lower Upper
75 100
77 29.7 22.8 34.2

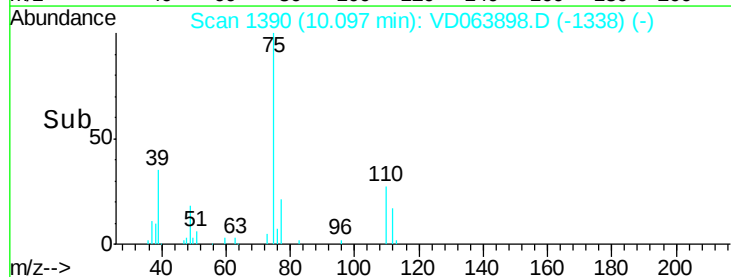
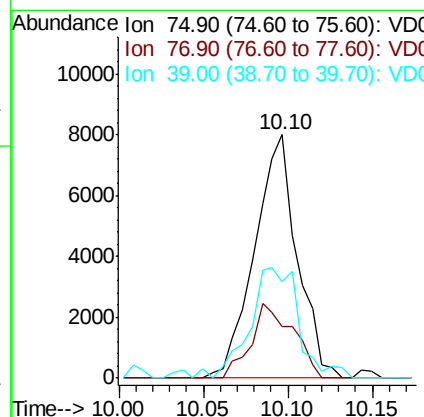
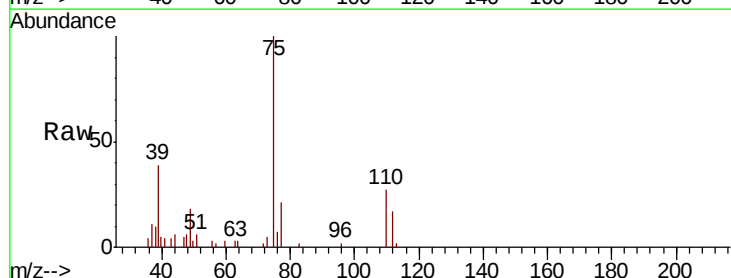
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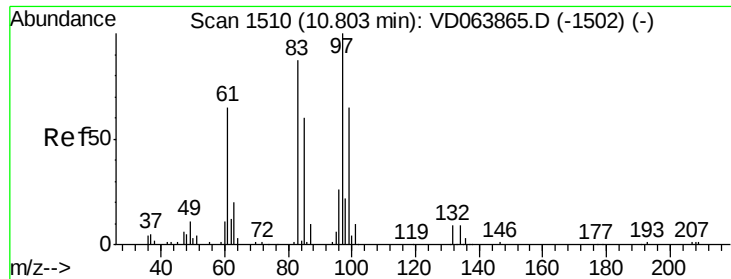
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 4.494 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 75 Resp: 14010
Ion Ratio Lower Upper
75 100
77 21.3 23.2 34.8#
39 39.3 41.5 62.3#





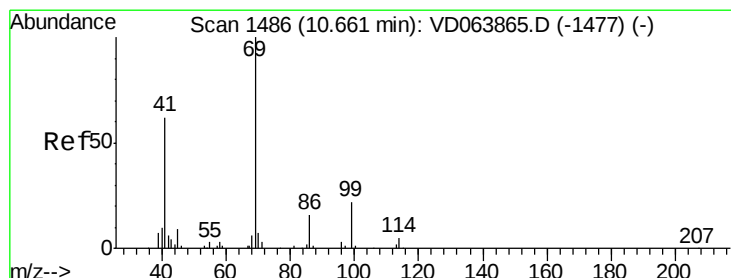
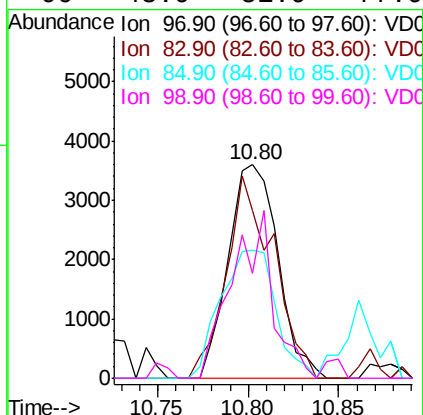
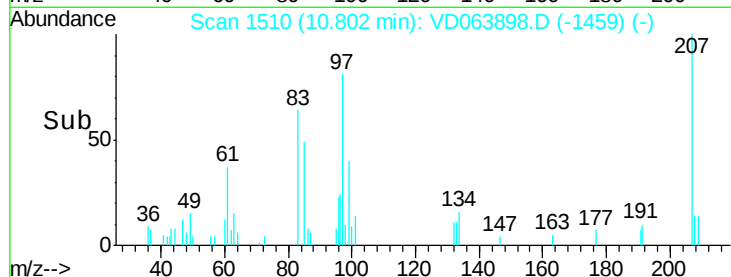
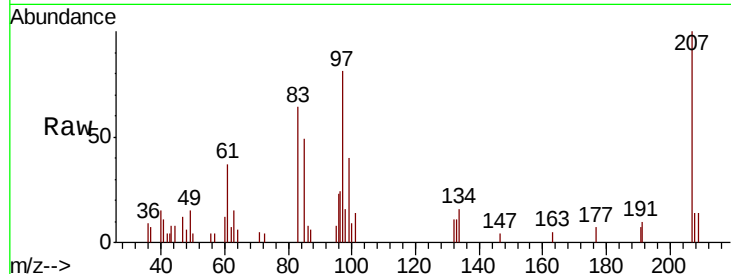
#55
 1,1,2-Trichloroethane
 Concen: 4.518 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
97	100		
83	78.4	69.7	104.5
85	60.0	48.1	72.1
99	48.9	51.9	77.9#

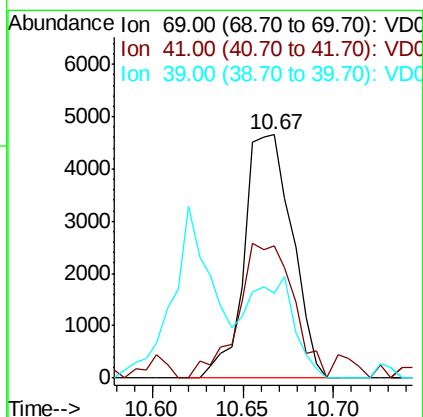
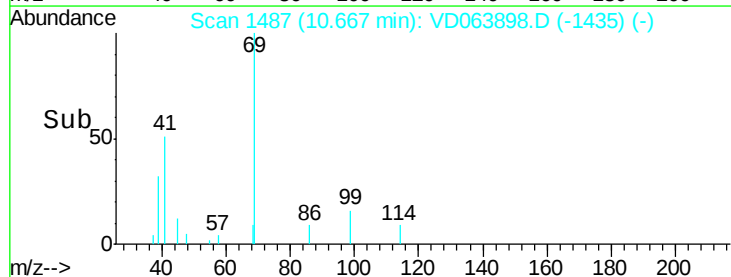
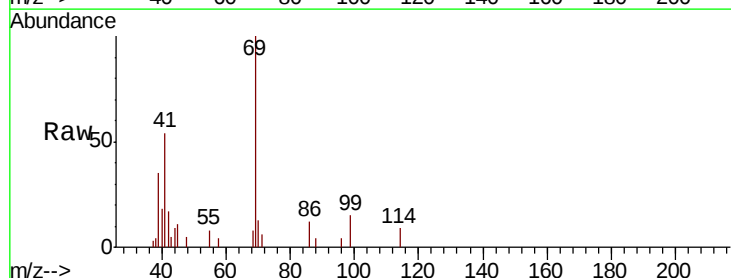
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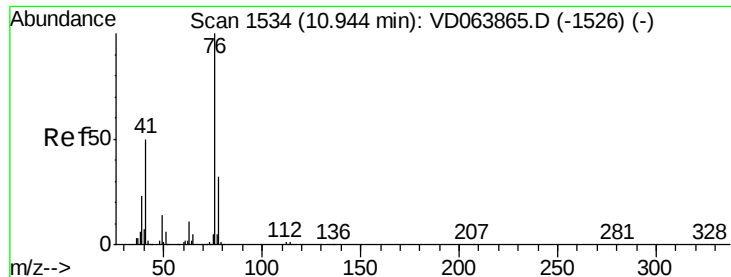
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 4.425 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.8	51.3	76.9
39	39.8	28.0	42.0





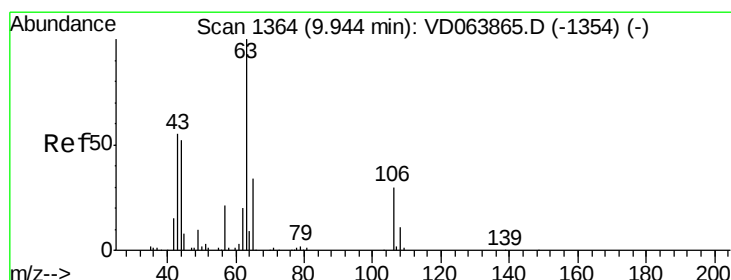
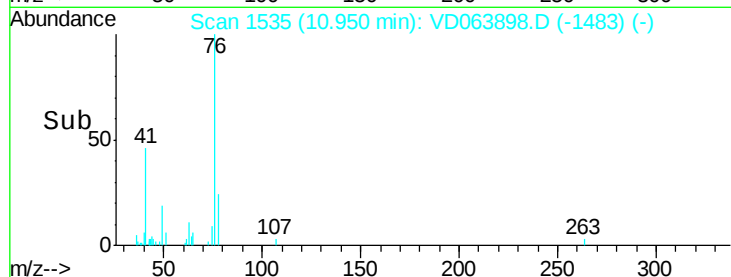
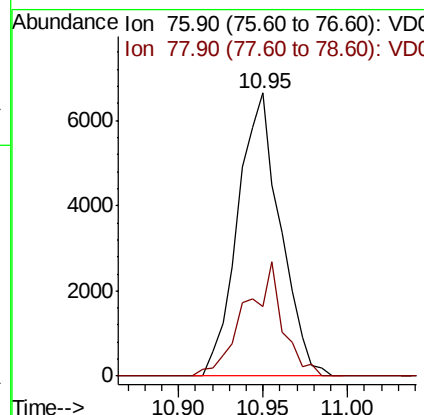
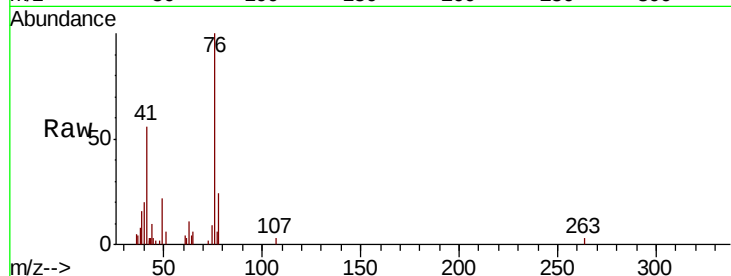
#57
 1,3-Dichloropropane
 Concen: 4.469 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion: 76 Resp: 11640
 Ion Ratio Lower Upper
 76 100
 78 35.6 26.6 40.0

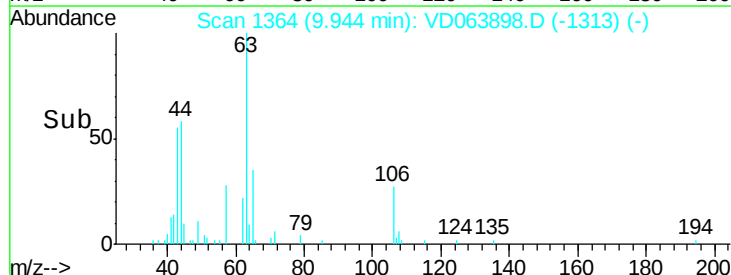
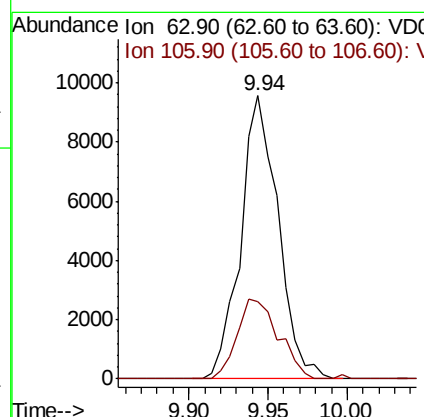
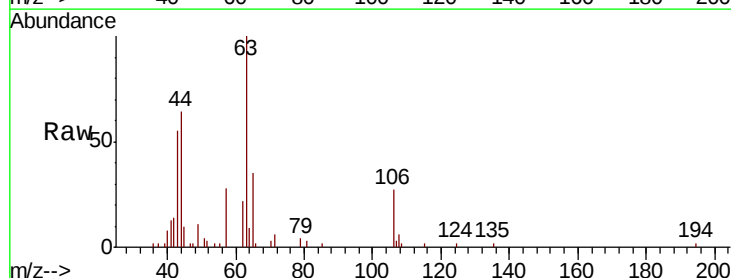
Manual Integrations
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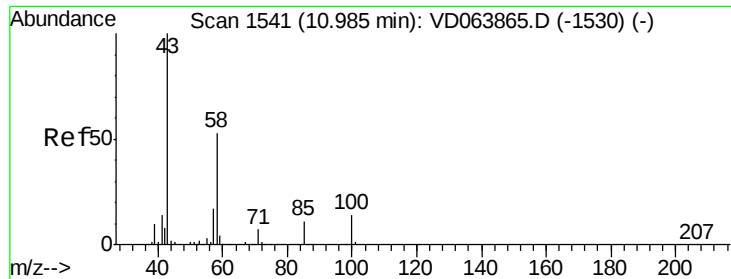
MMDadoda
 10/10/2019 1:46:14 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.937 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion: 63 Resp: 15691
 Ion Ratio Lower Upper
 63 100
 106 31.1 24.3 36.5





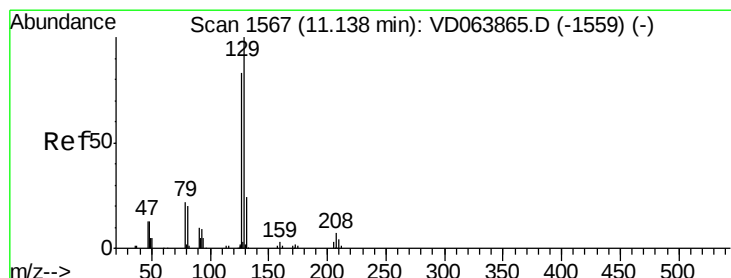
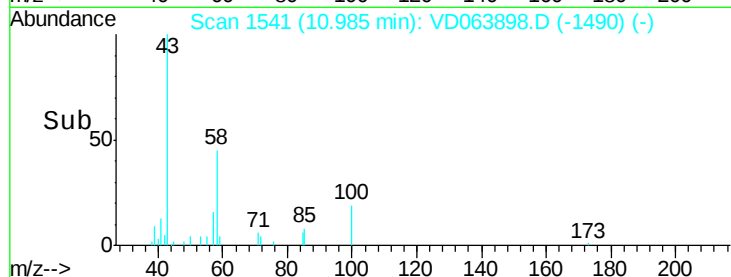
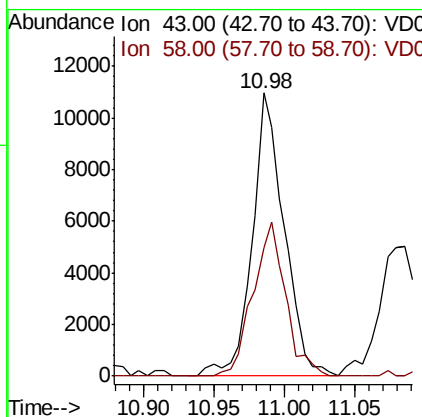
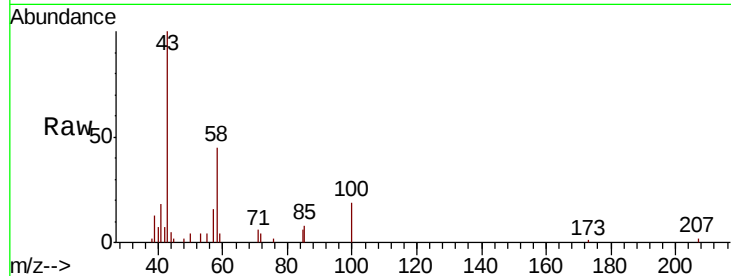
#59
2-Hexanone
Concen: 20.523 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion: 43 Resp: 17426
Ion Ratio Lower Upper
43 100
58 55.7 27.7 83.0

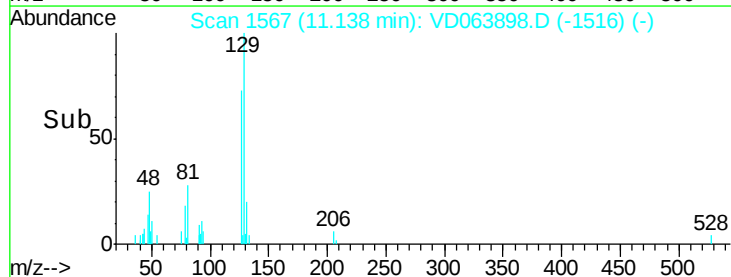
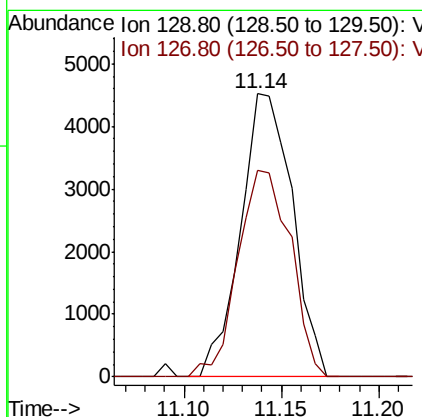
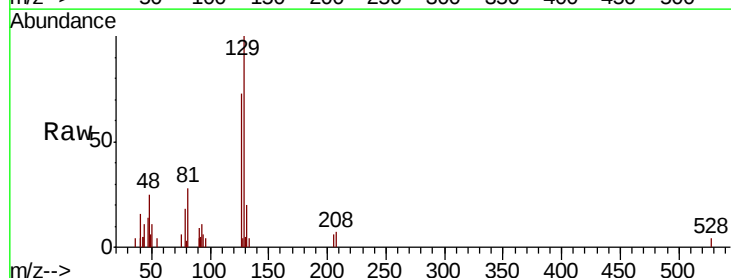
Manual Integrations
APPROVED

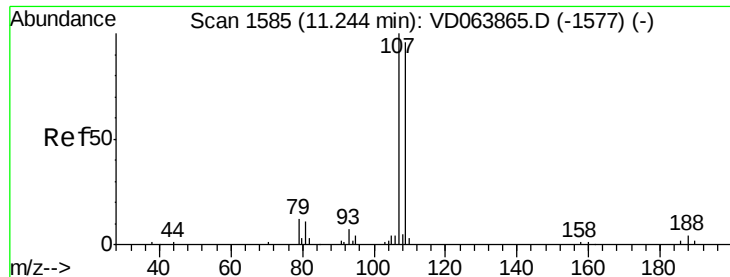
MMDadoda
10/10/2019 1:46:14 PM



#60
Dibromochloromethane
Concen: 4.194 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 129 Resp: 8312
Ion Ratio Lower Upper
129 100
127 74.3 39.9 119.6





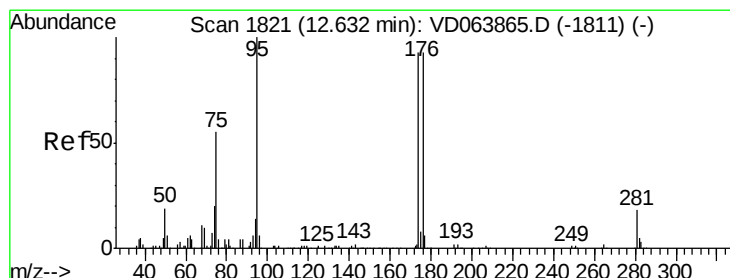
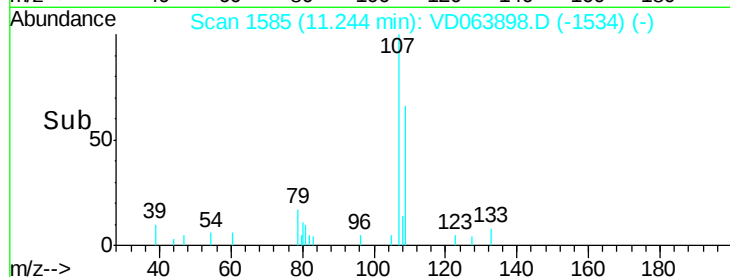
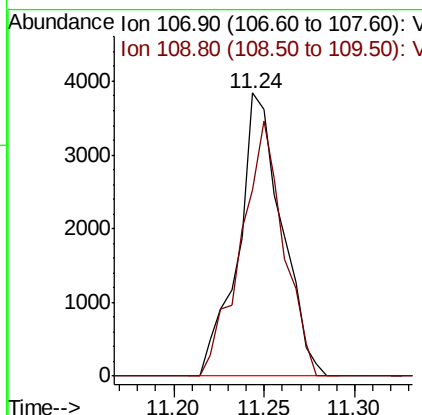
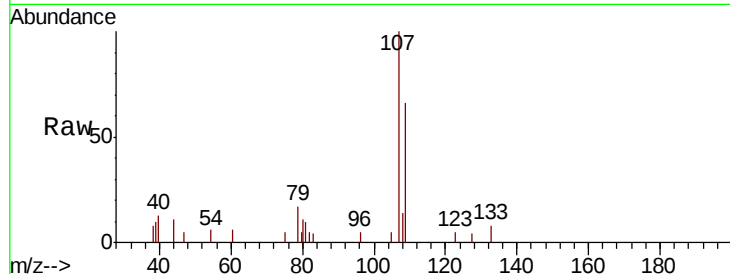
#61
 1,2-Dibromoethane
 Concen: 4.319 ug/l
 RT: 11.24 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	88.8	75.2	112.8

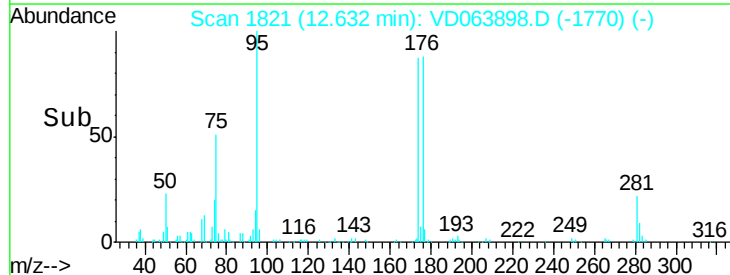
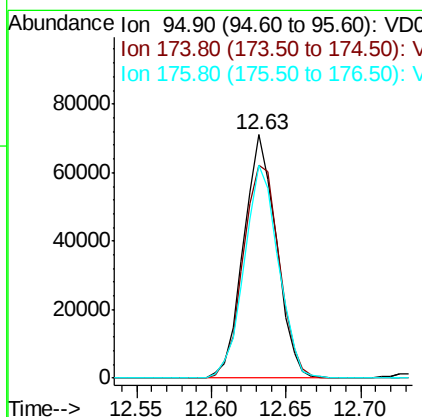
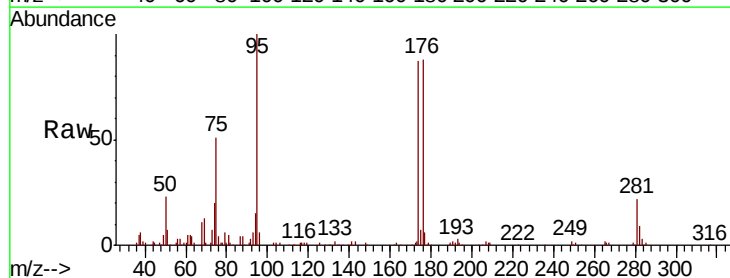
Manual Integrations
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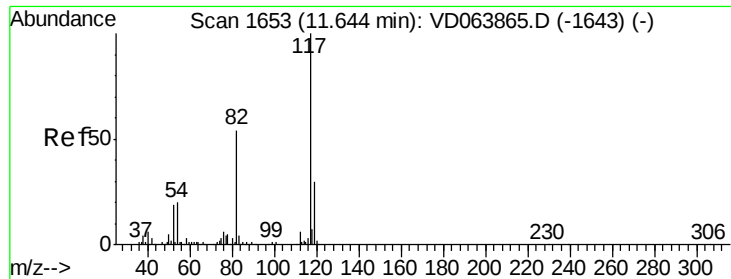
MMDadoda
 10/10/2019 1:46:14 PM



#62
 4-Bromofluorobenzene
 Concen: 42.423 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.5	0.0	186.4
176	91.0	0.0	184.2





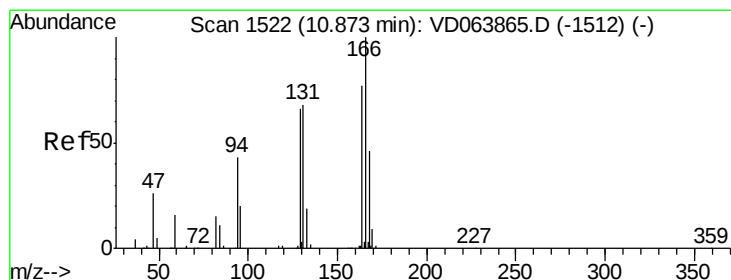
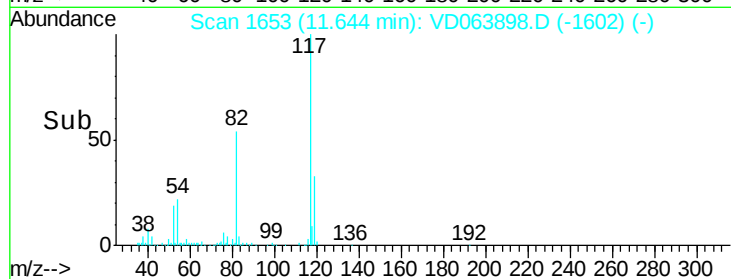
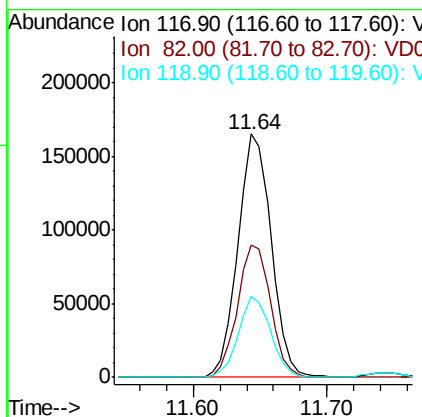
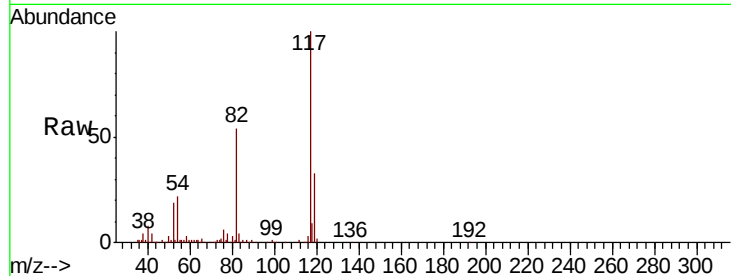
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	42.8	64.2
119	33.5	24.4	36.6

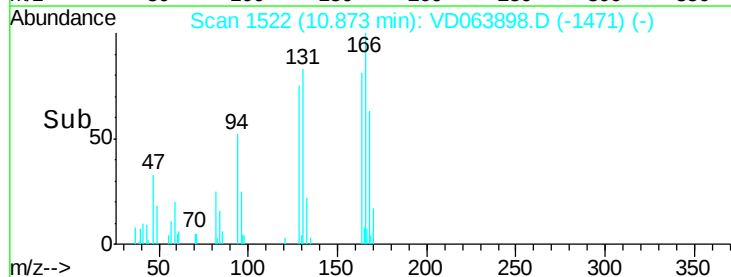
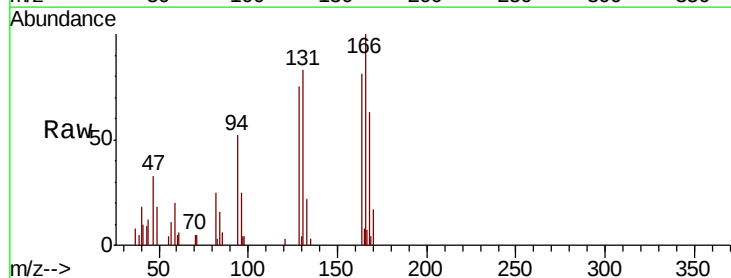
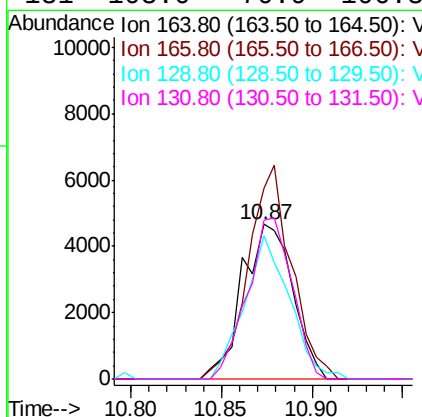
Manual Integrations
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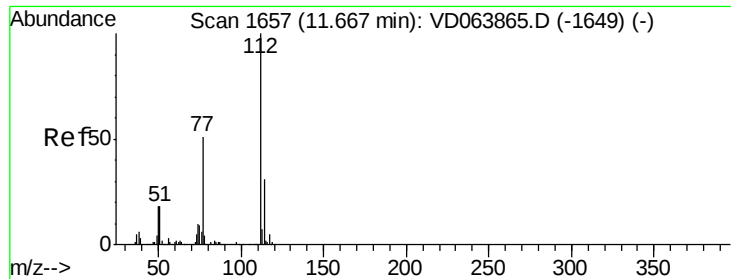
MMDadoda
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#64
Tetrachloroethene
Concen: 4.646 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.4	103.8	155.6
129	92.5	68.9	103.3
131	103.0	70.9	106.3





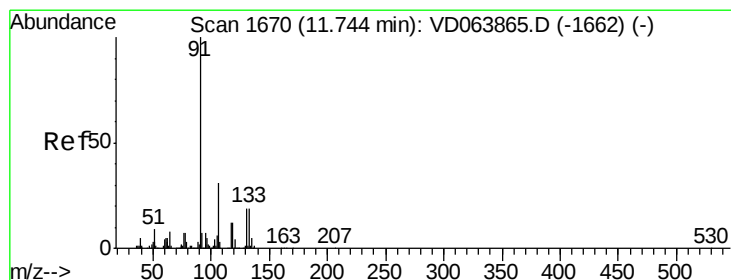
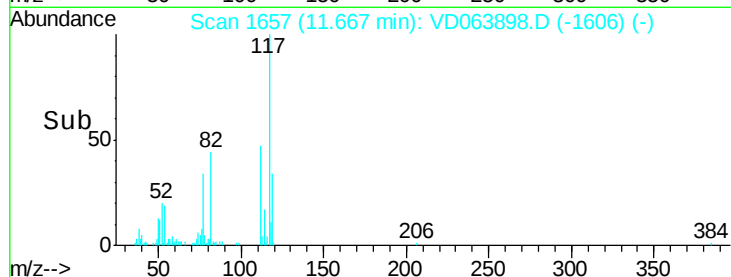
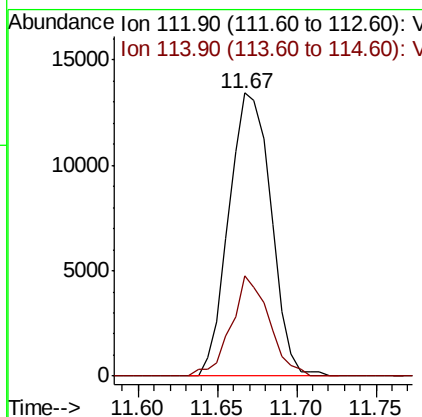
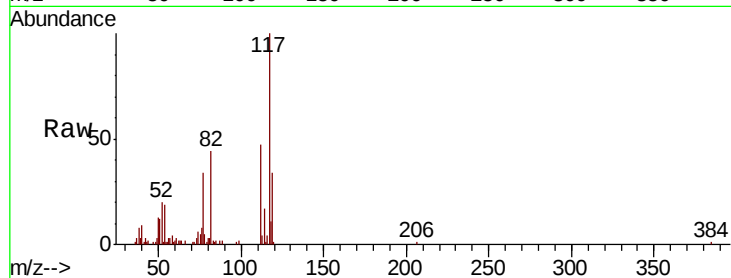
#65
Chlorobenzene
Concen: 4.342 ug/l
RT: 11.67 min Scan# 1657
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion:112 Resp: 24819
Ion Ratio Lower Upper
112 100
114 35.6 25.1 37.7

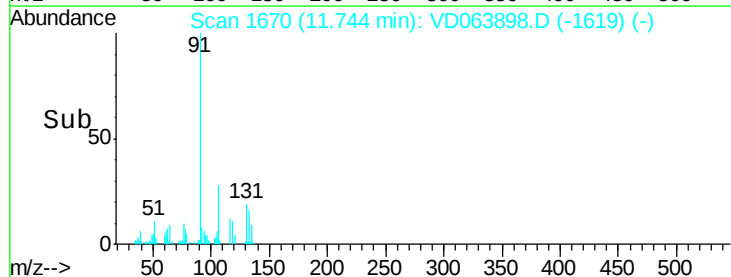
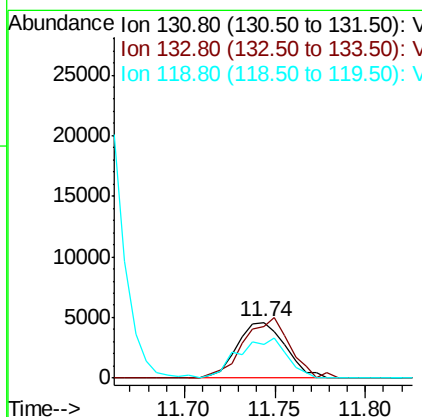
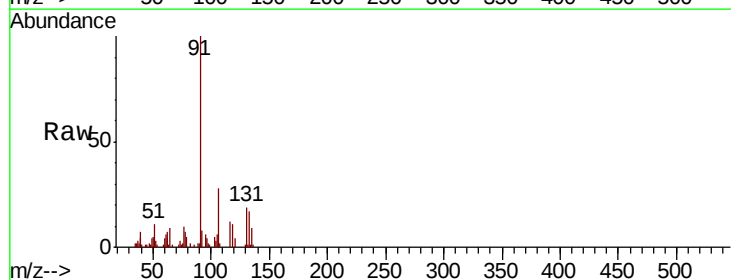
Manual Integrations
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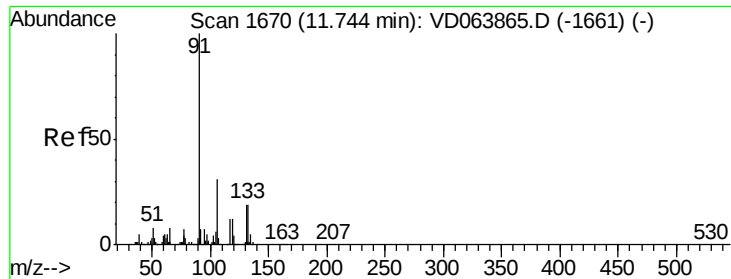
MMDadoda
10/10/2019 1:46:14 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.047 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion:131 Resp: 8524
Ion Ratio Lower Upper
131 100
133 103.4 48.9 146.7
119 72.5 32.6 97.8





#67

Ethyl Benzene

Concen: 4.150 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion: 91 Resp: 42772

Ion Ratio Lower Upper

91 100

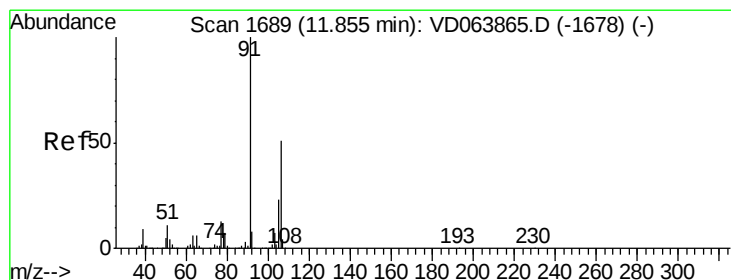
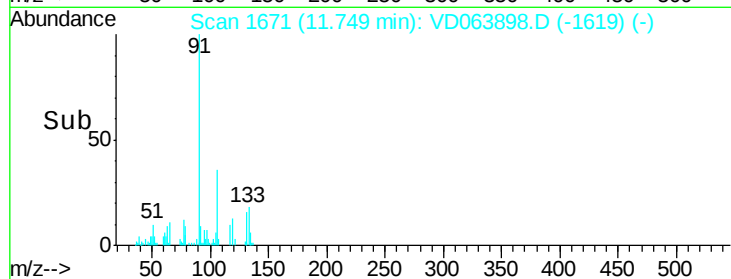
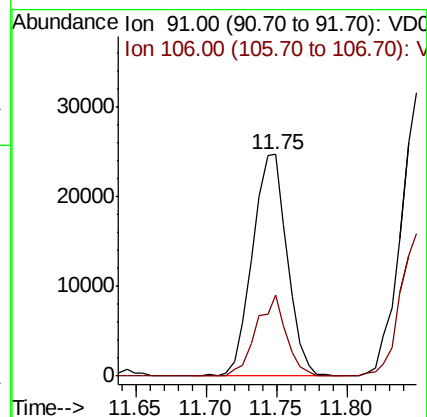
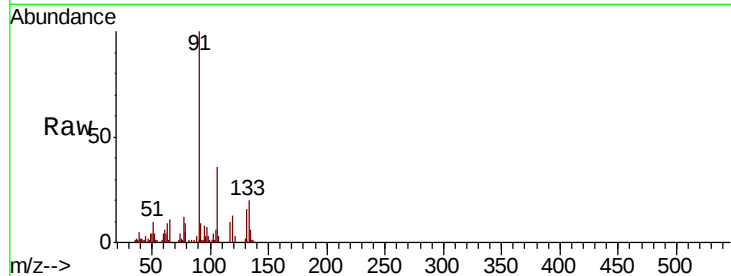
106 36.4 24.6 37.0

Manual Integrations

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MMDadoda

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#68

m/p-Xylenes

Concen: 8.237 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD063898.D

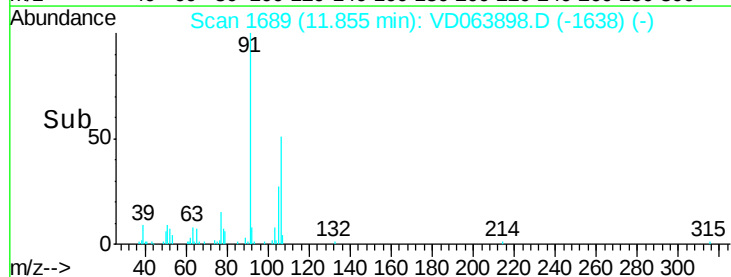
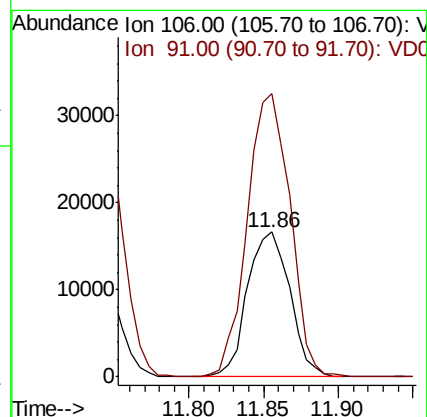
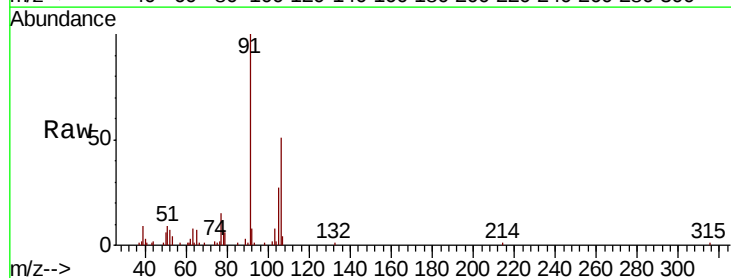
Acq: 07 Oct 2019 14:06

Tgt Ion: 106 Resp: 32766

Ion Ratio Lower Upper

106 100

91 197.2 154.8 232.2





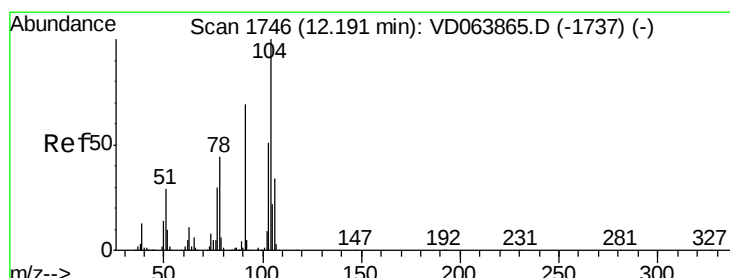
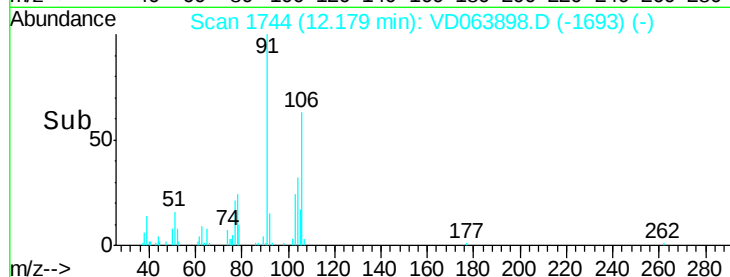
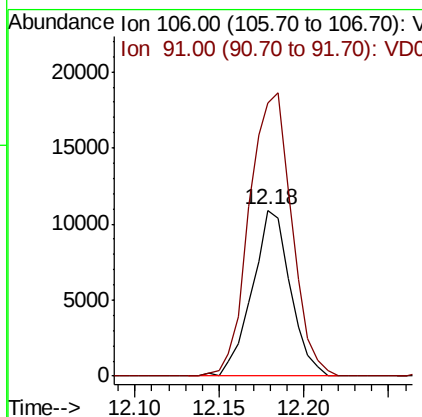
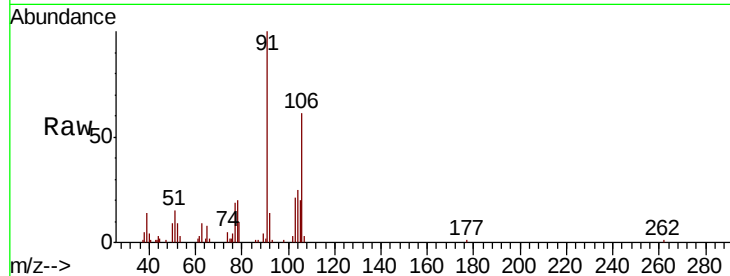
#69
o-Xylene
Concen: 4.503 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion:106 Resp: 17153
Ion Ratio Lower Upper
106 100
91 189.1 103.9 311.7

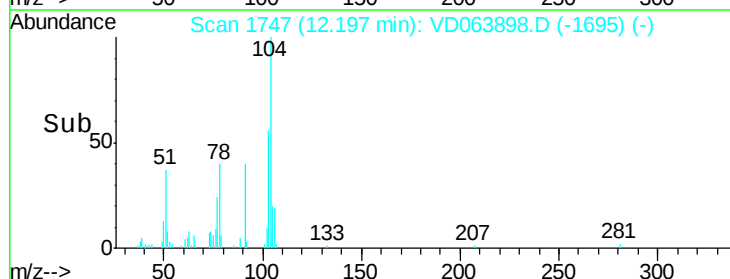
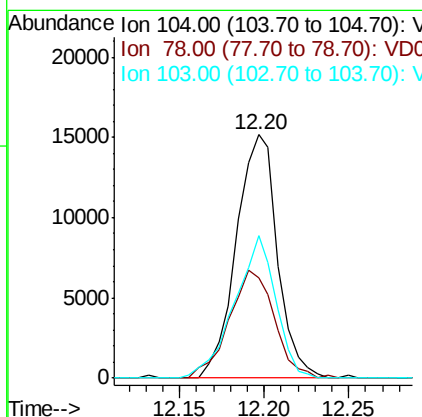
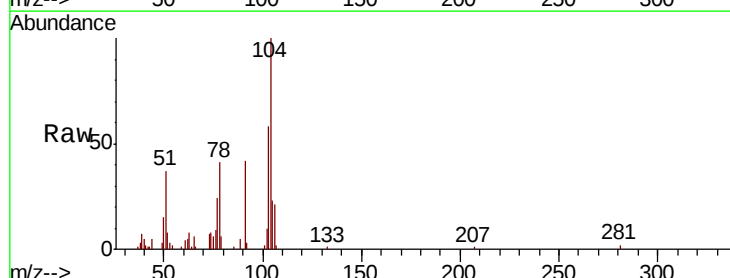
Manual Integrations
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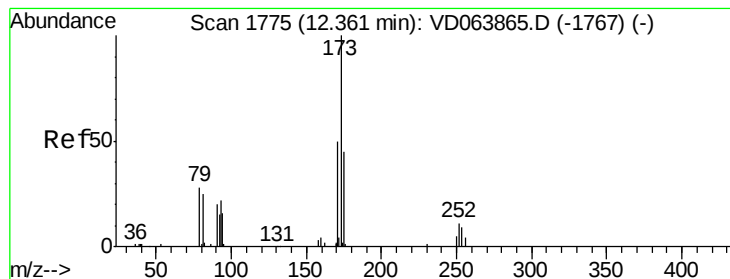
MMDadoda
10/10/2019 1:46:14 PM



#70
Styrene
Concen: 3.982 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion:104 Resp: 25677
Ion Ratio Lower Upper
104 100
78 49.1 37.0 55.4
103 58.6 44.2 66.4





#71

Bromoform

Concen: 4.085 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion:173 Resp: 4617

Ion Ratio Lower Upper

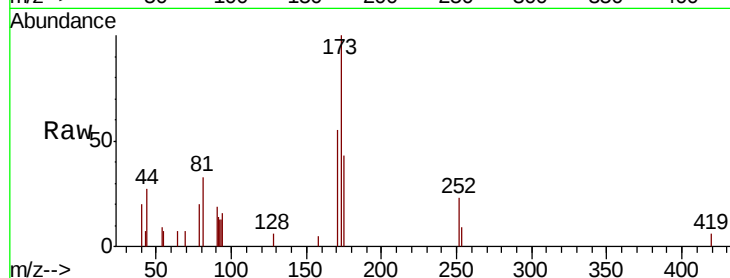
173 100

175 54.4 24.6 74.0

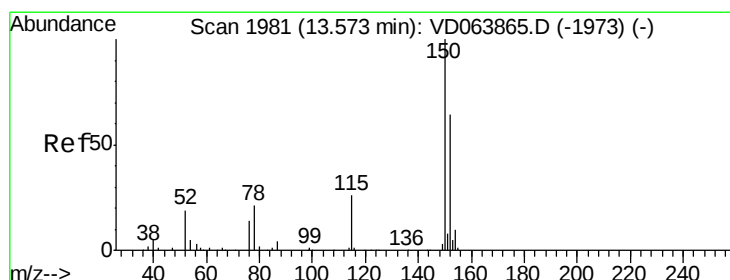
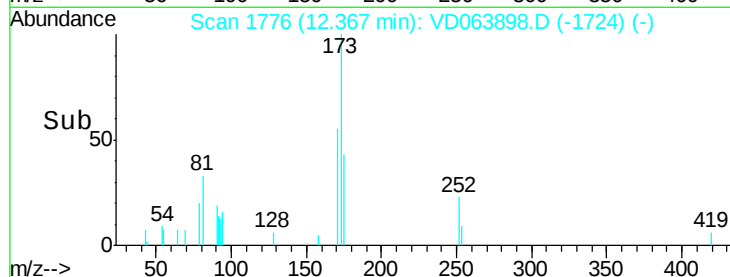
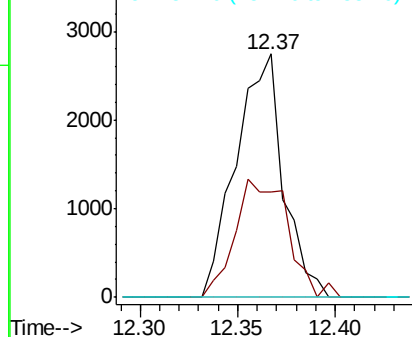
254 0.0 0.0 0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

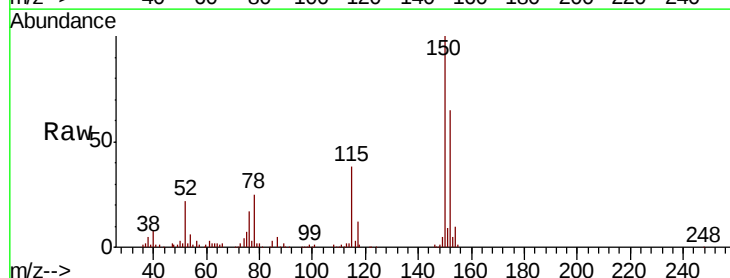
Tgt Ion:152 Resp: 143128

Ion Ratio Lower Upper

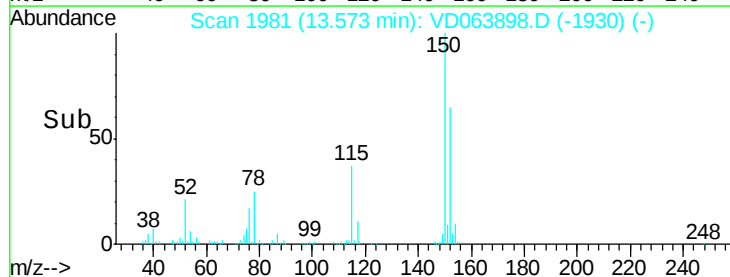
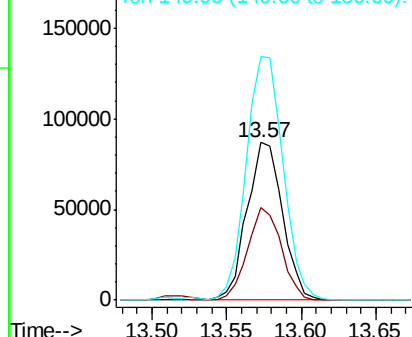
152 100

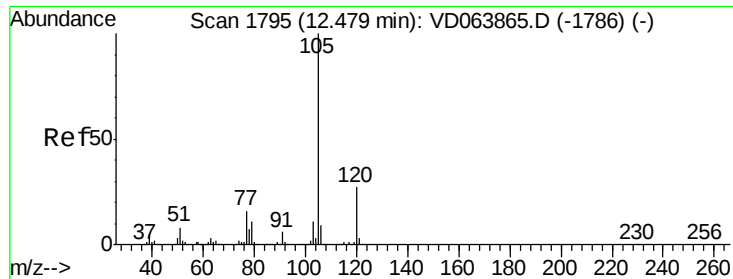
115 55.5 25.9 77.7

150 160.0 0.0 344.2



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





#73

Isopropylbenzene

Concen: 4.409 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion: 105 Resp: 42418

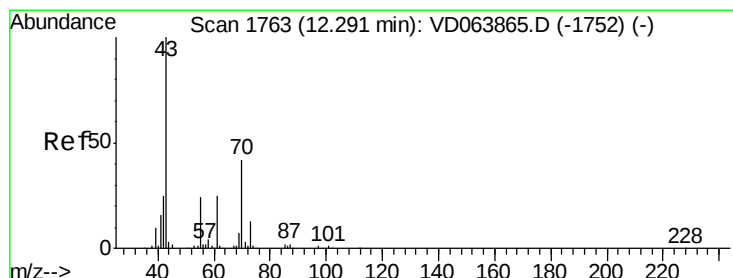
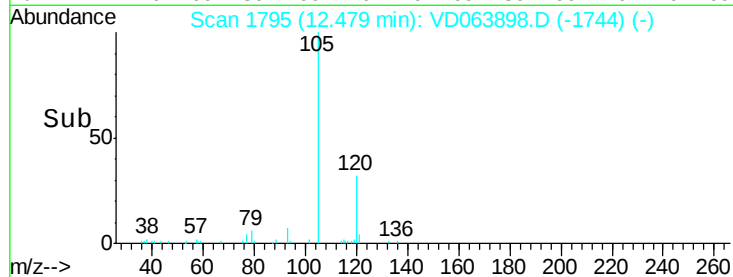
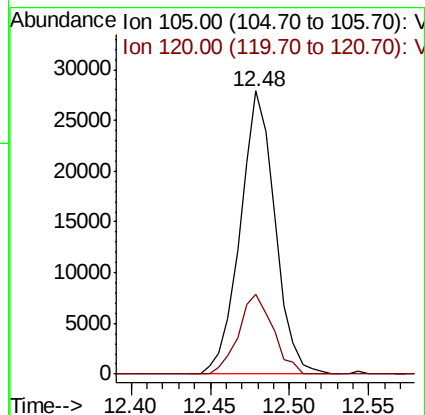
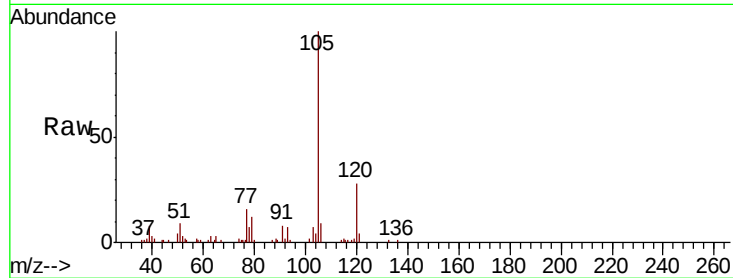
Ion Ratio Lower Upper

105 100

120 27.9 13.3 39.8

Manual Integrations
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10/10/2019 1:46:14 PM



#74

N-ethyl acetate

Concen: 4.306 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion: 43 Resp: 8921

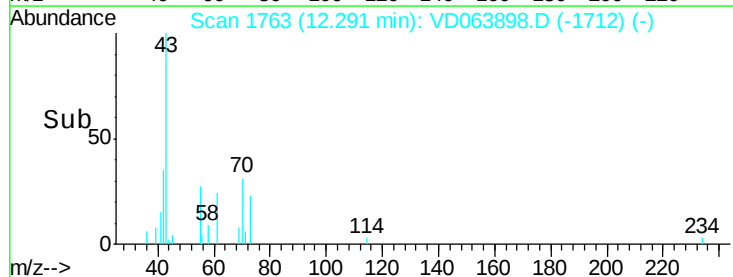
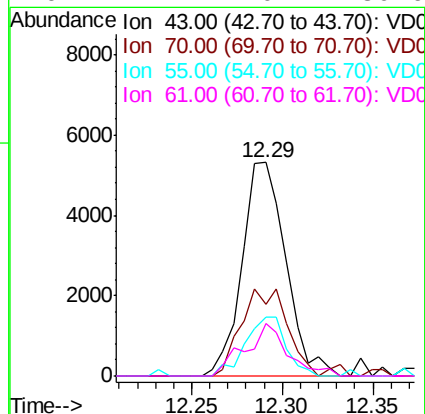
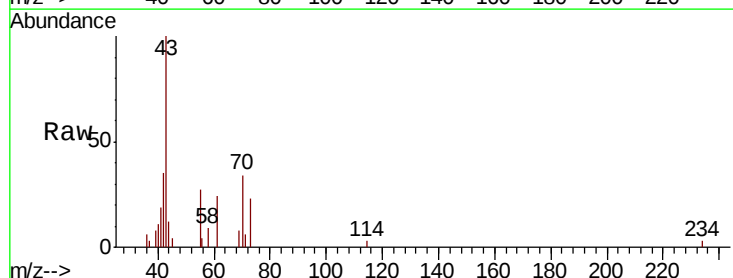
Ion Ratio Lower Upper

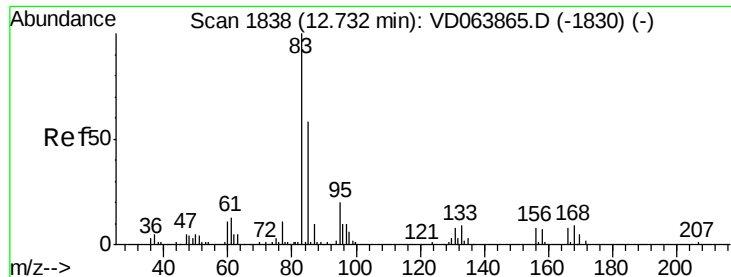
43 100

70 43.0 35.8 53.6

55 25.6 19.4 29.0

61 24.1 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 4.344 ug/l

RT: 12.73 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

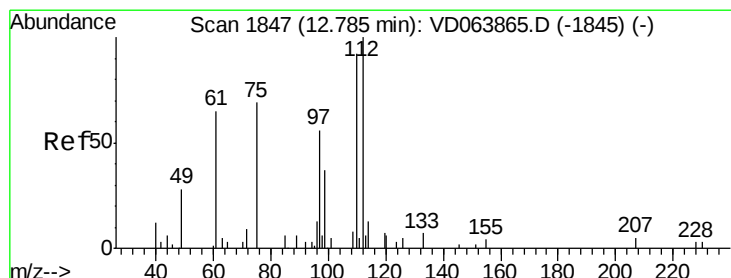
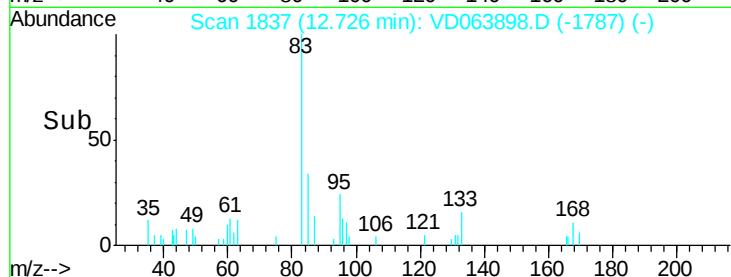
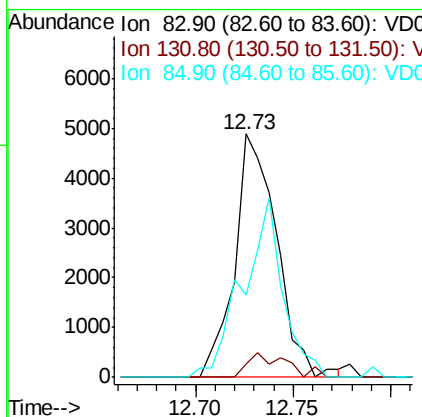
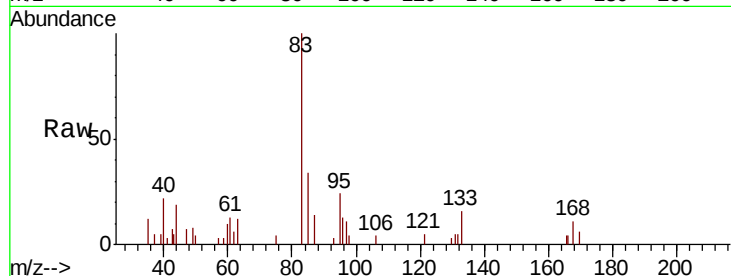
ClientSampleId :

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

Tot Ion:	83	Resp:	7274
Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.6	16.8
85	70.6	32.3	96.8

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#76

1,2,3-Trichloropropane

Concen: 4.541 ug/l m

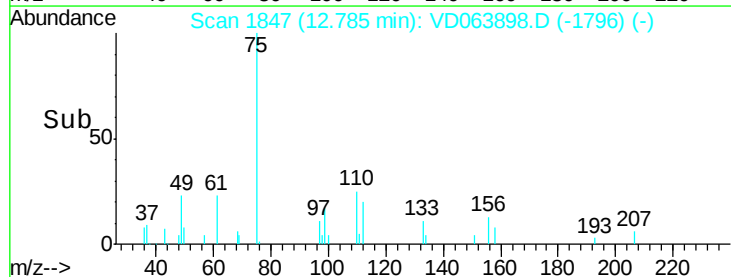
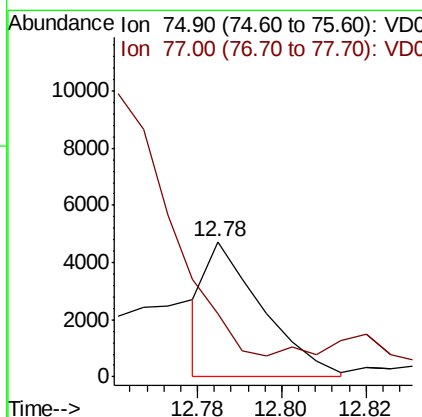
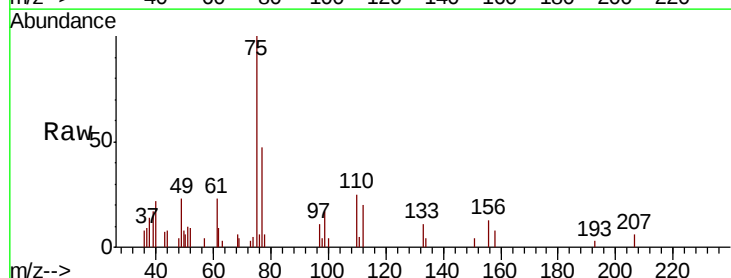
RT: 12.78 min Scan# 1847

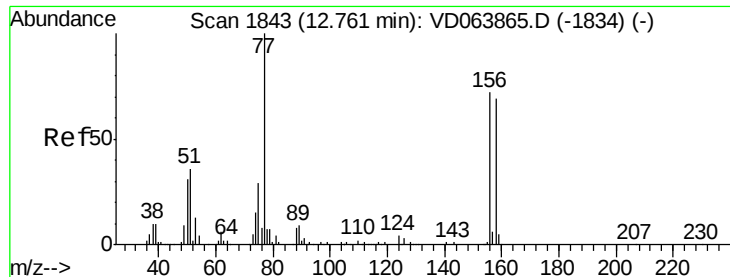
Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion:	75	Resp:	4353
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.194 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

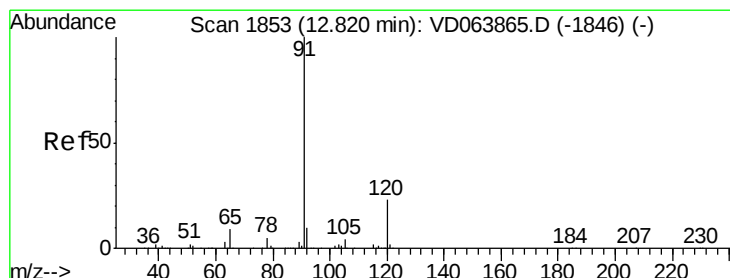
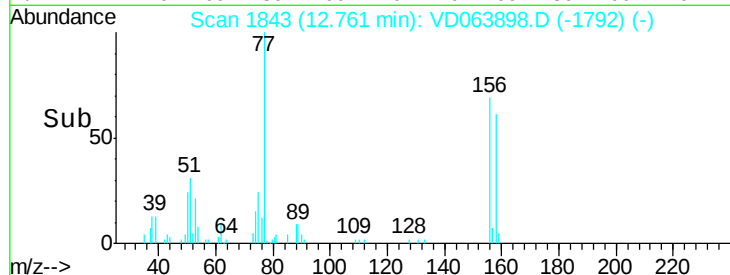
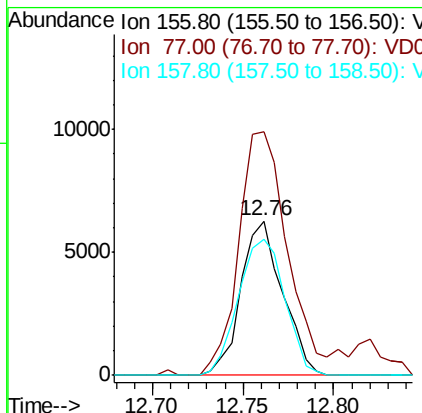
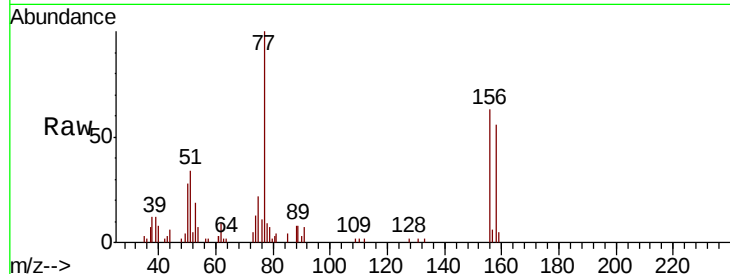
ClientSampleId :

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

Tot Ion	156	Resp	10055
Ion	Ratio	Lower	Upper
156	100		
77	184.6	80.3	241.0
158	98.3	47.4	142.2

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#78

n-propylbenzene

Concen: 4.463 ug/l

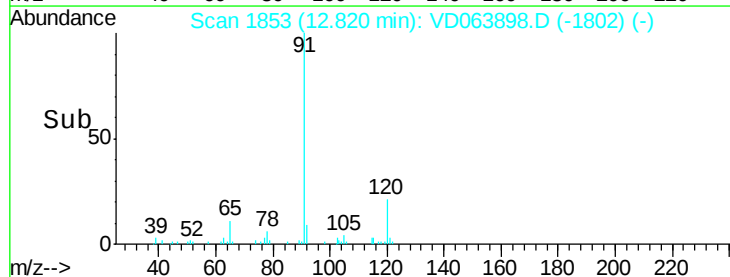
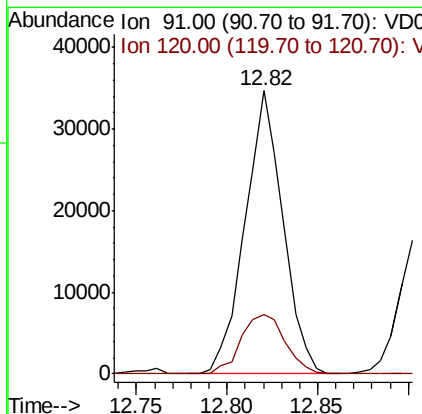
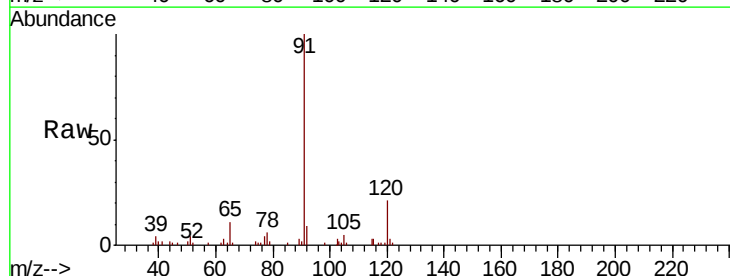
RT: 12.82 min Scan# 1853

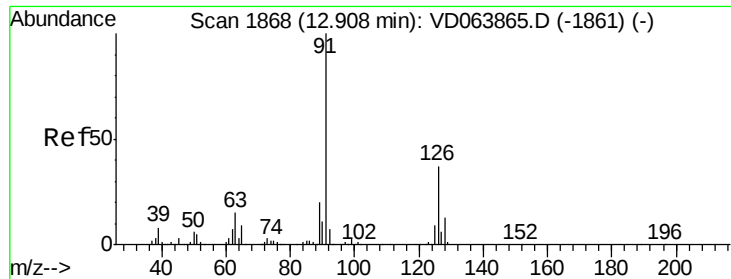
Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion	91	Resp	50402
Ion	Ratio	Lower	Upper
91	100		
120	24.4	12.0	36.0





#79

2-Chlorotoluene

Concen: 4.439 ug/l

RT: 12.90 min Scan# 1867

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

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

Tot Ion: 91 Resp: 27643

Ion Ratio Lower Upper

91 100

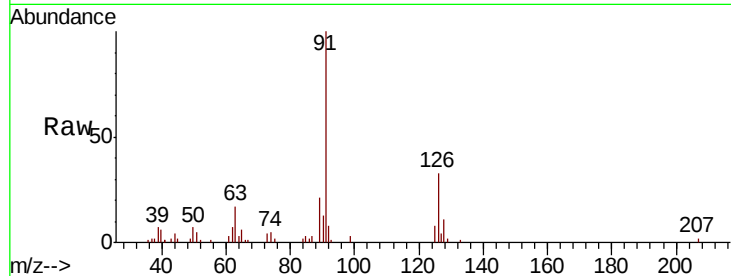
126 35.8 18.4 55.2

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Abundance Ion 91.00 (90.70 to 91.70): VD063865.D (-1861) (-)

Ion 125.90 (125.60 to 126.60): VD063865.D (-1861) (-)

12.90

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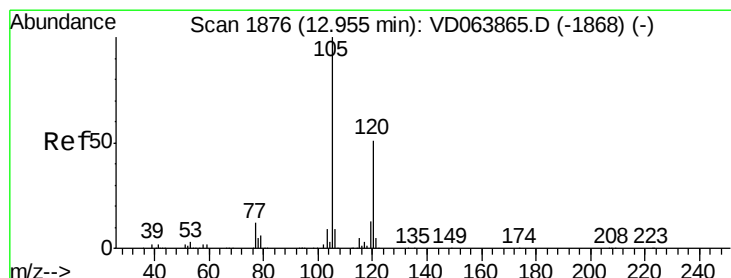
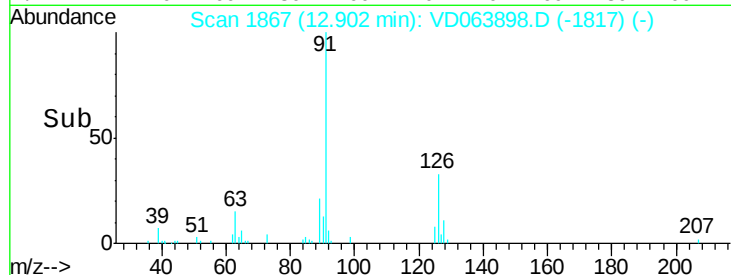
12.90

12.90

12.90

12.90

12.90



#80

1,3,5-Trimethylbenzene

Concen: 4.260 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.01 min

Lab File: VD063898.D

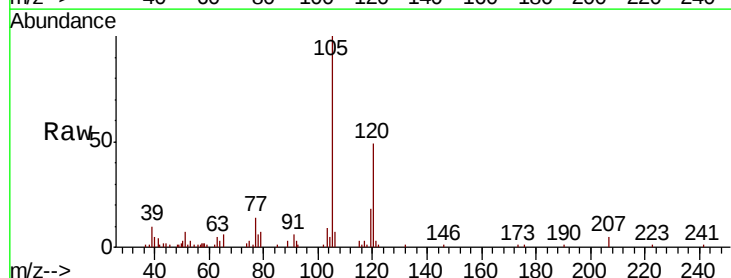
Acq: 07 Oct 2019 14:06

Tgt Ion:105 Resp: 34194

Ion Ratio Lower Upper

105 100

120 52.2 25.9 77.8



Abundance Ion 105.00 (104.70 to 105.70): VD063865.D (-1868) (-)

Ion 120.00 (119.70 to 120.70): VD063865.D (-1868) (-)

12.96

12.96

12.96

12.96

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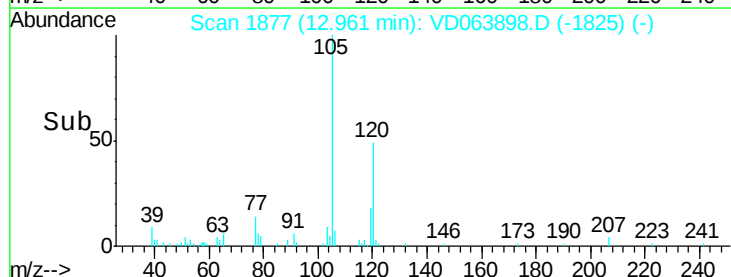
12.96

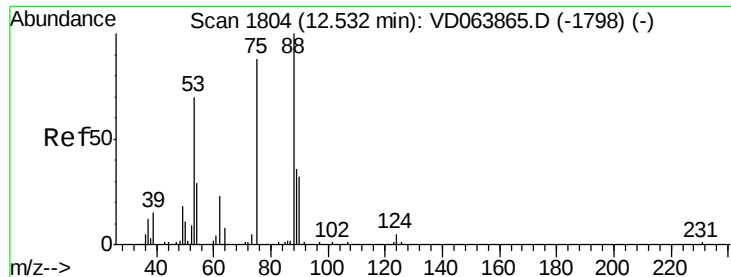
12.96

12.96

12.96

12.96





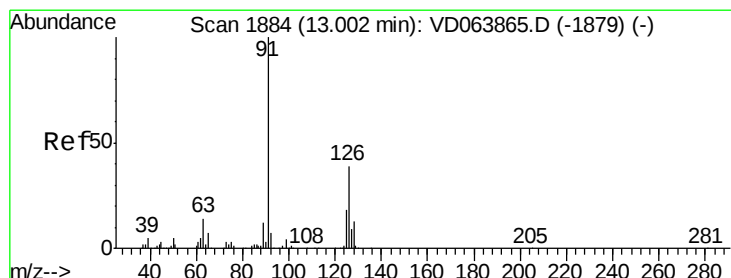
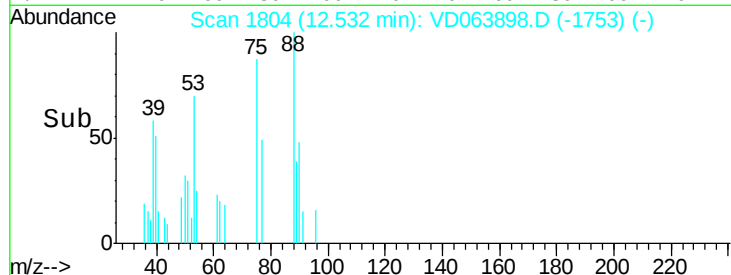
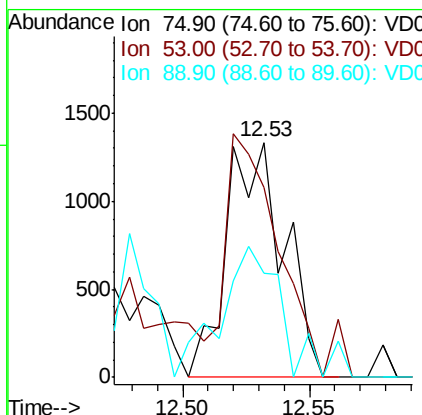
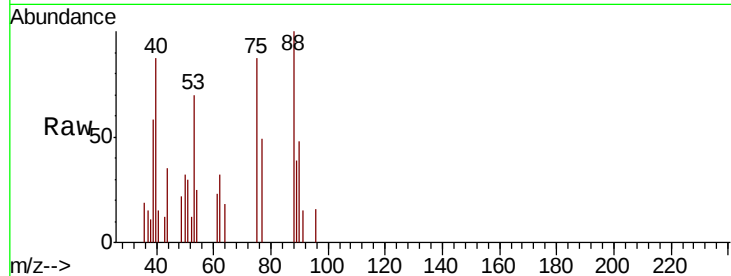
#81
trans-1,4-Dichloro-2-butene
Concen: 3.871 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.2	75.0	112.6
89	61.5	38.2	57.4

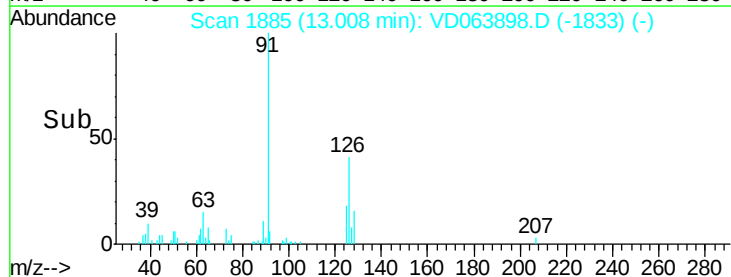
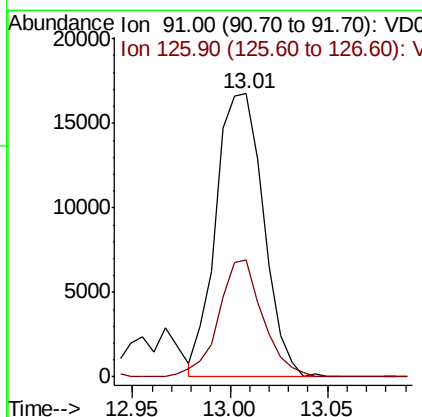
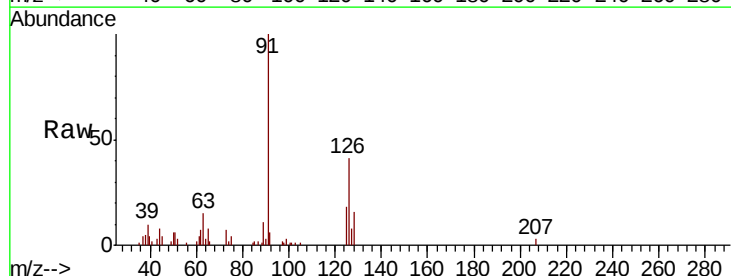
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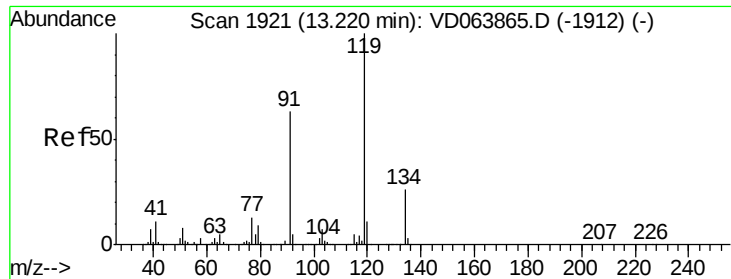
MMDadoda
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#82
4-Chlorotoluene
Concen: 4.281 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.6	18.6	55.8





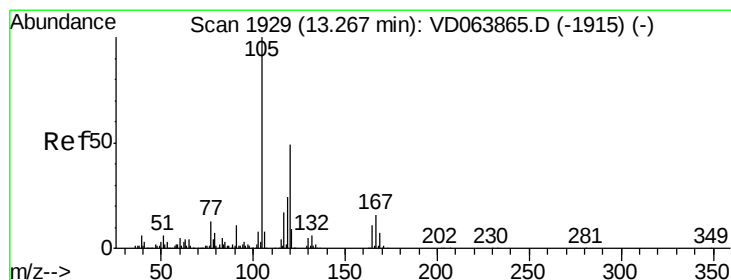
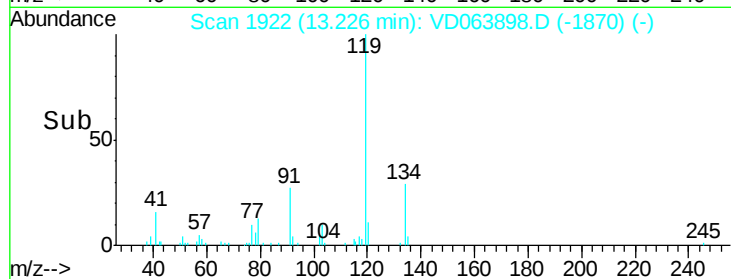
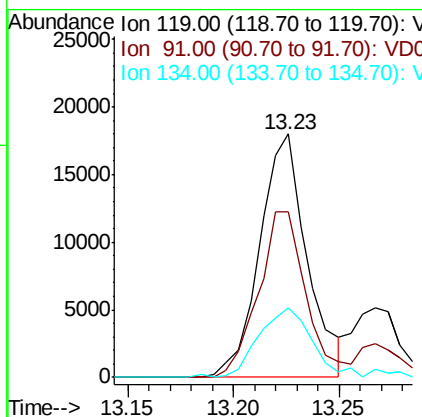
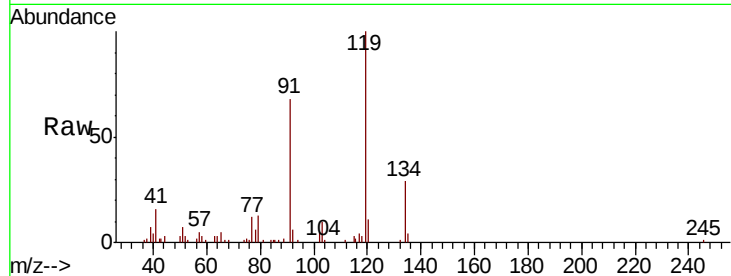
#83
tert-Butylbenzene
Concen: 3.925 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.6	30.0	90.0
134	32.0	13.0	38.9

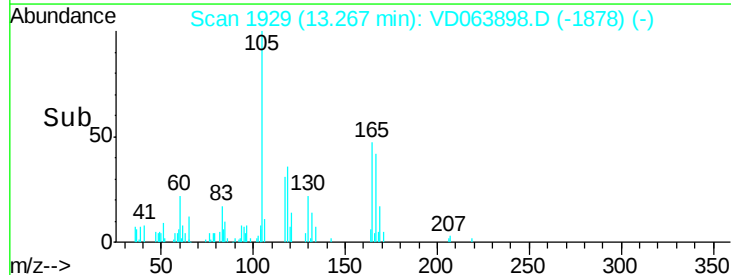
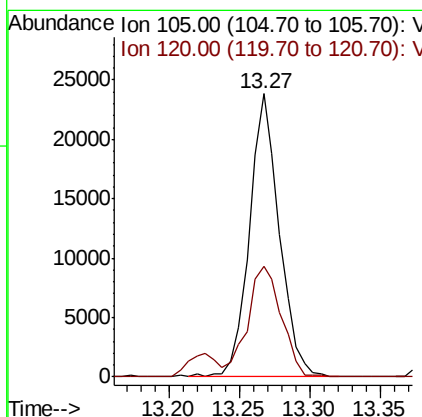
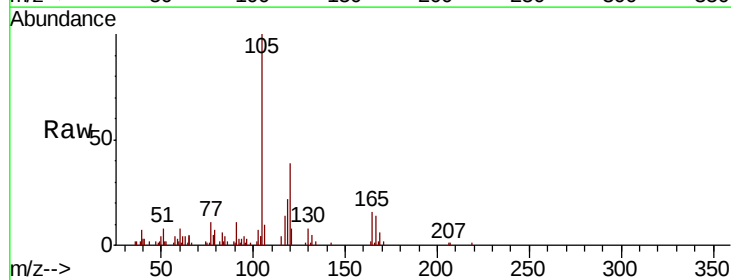
Manual Integrations
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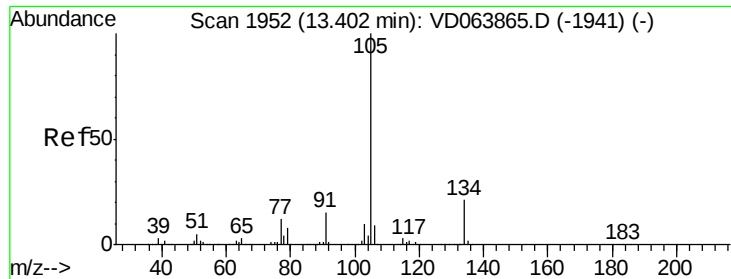
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 4.279 ug/l
RT: 13.27 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.2	23.8	71.5





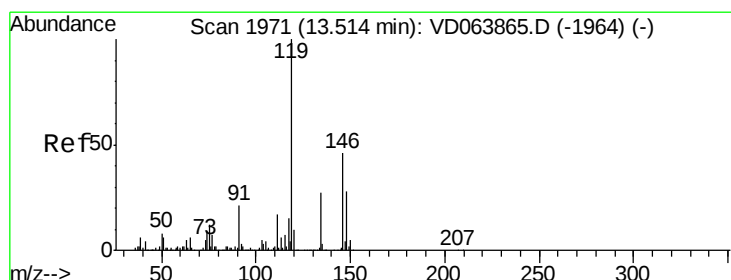
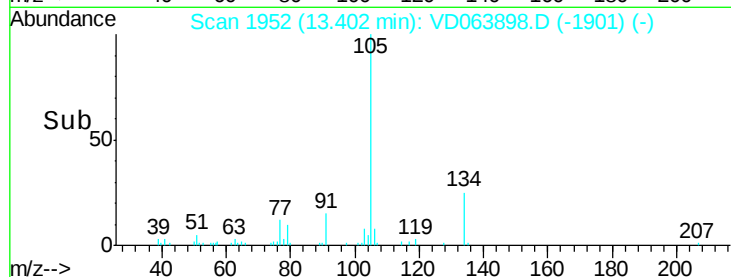
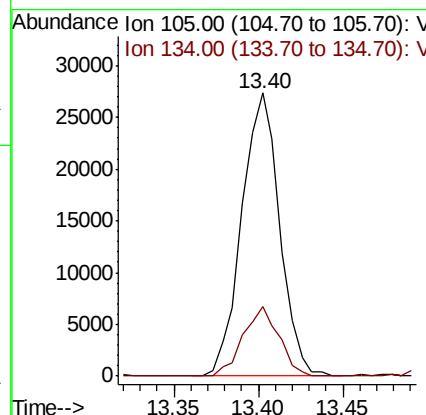
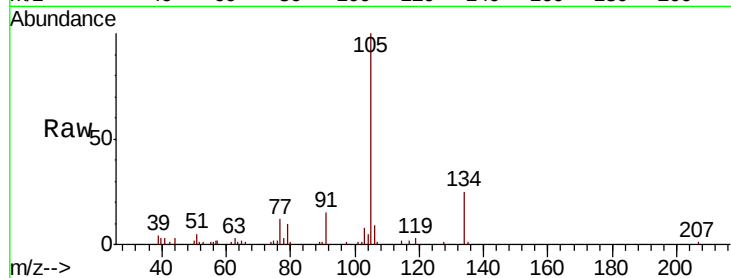
#85
 sec-Butylbenzene
 Concen: 4.430 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
105	100		
134	23.1	10.6	31.8

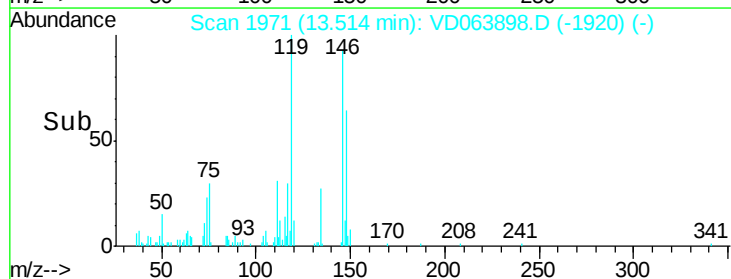
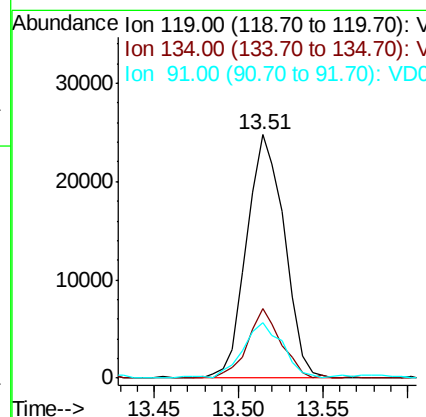
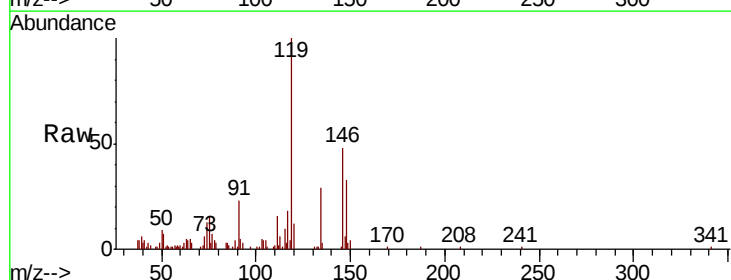
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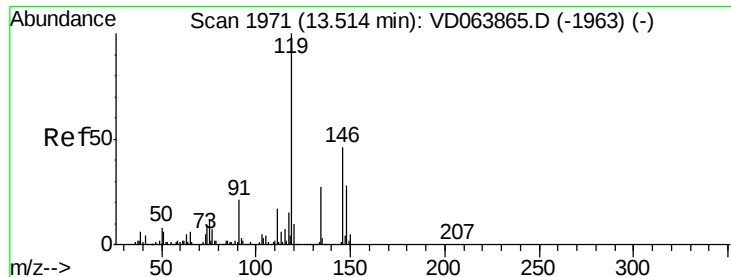
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#86
 p-Isopropyltoluene
 Concen: 4.211 ug/l
 RT: 13.51 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	13.9	41.6
91	24.4	11.2	33.5





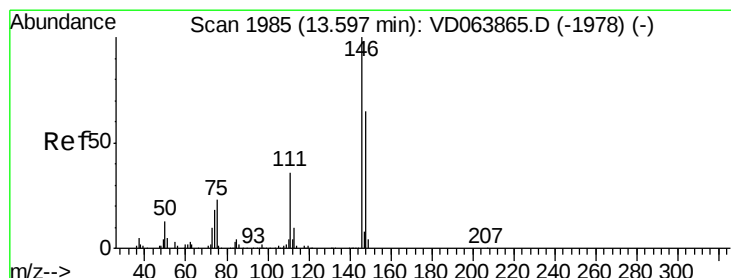
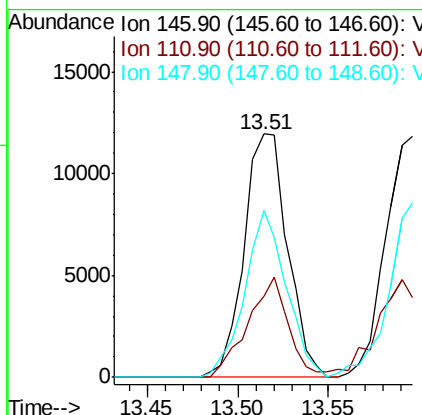
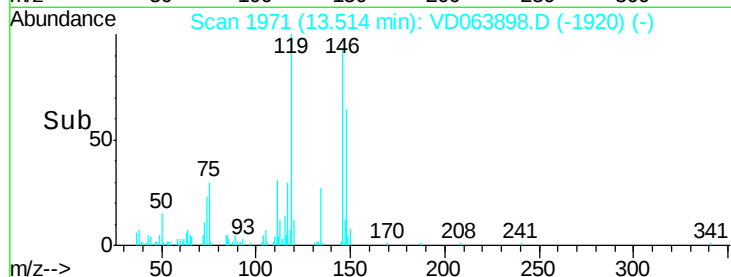
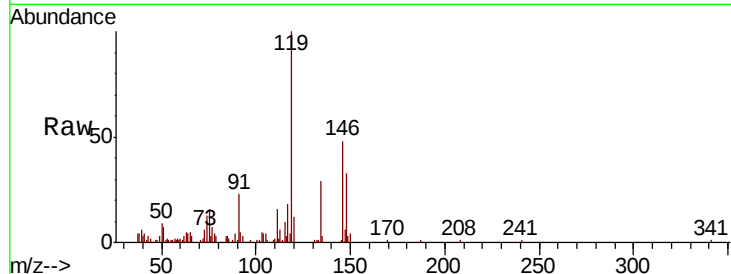
#87
 1,3-Dichlorobenzene
 Concen: 4.206 ug/l
 RT: 13.51 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.3	54.9
148	65.7	31.8	95.4

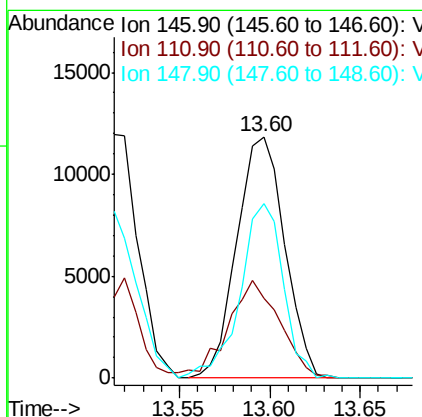
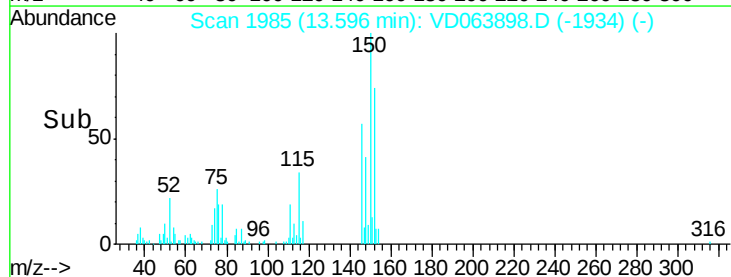
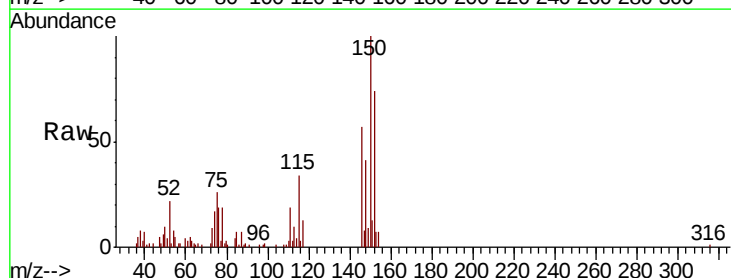
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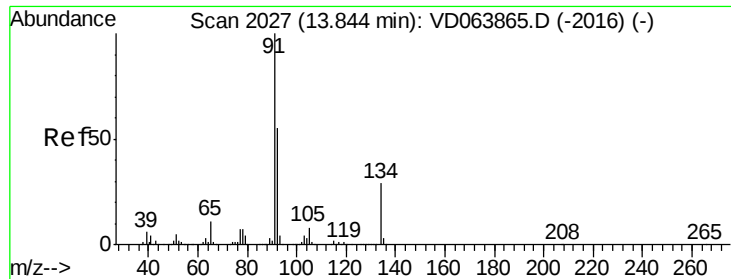
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#88
 1,4-Dichlorobenzene
 Concen: 4.651 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.9	18.6	56.0
148	65.3	32.6	98.0





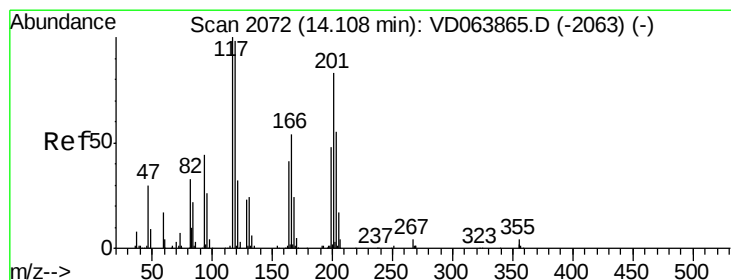
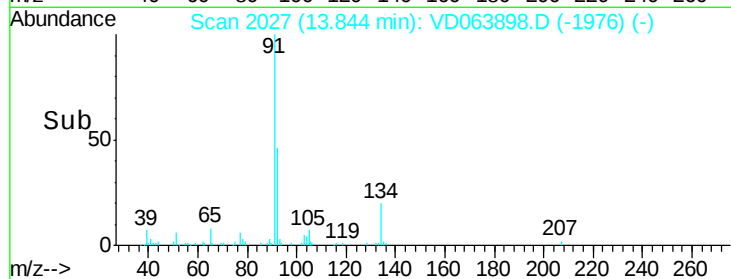
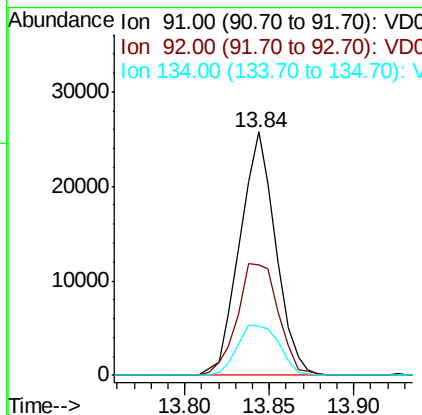
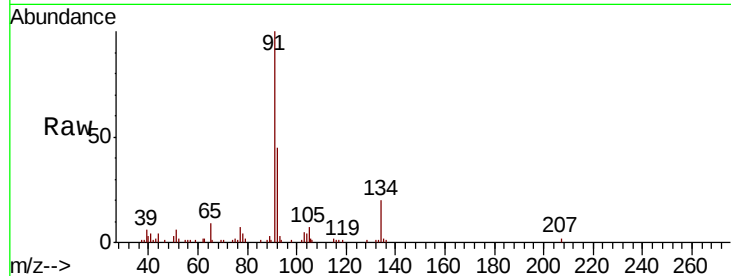
#89
n-Butylbenzene
Concen: 4.497 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.8	80.3
134	24.0	14.4	43.0

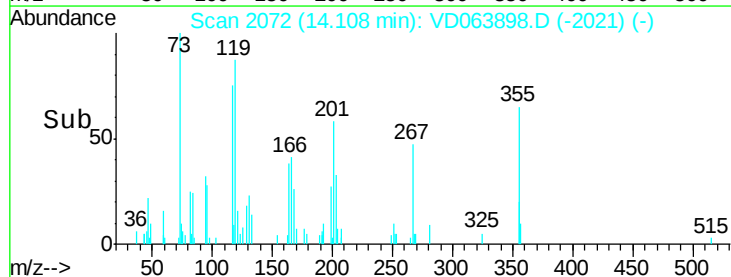
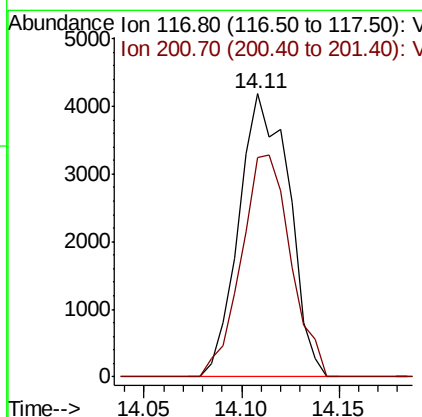
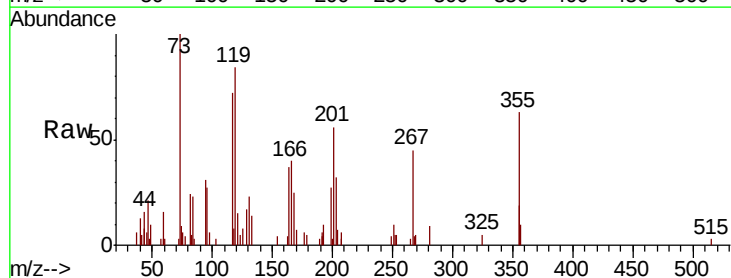
Manual Integrations
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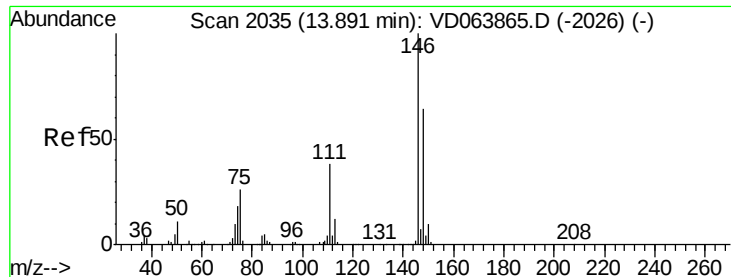
MMDadoda
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#90
Hexachloroethane
Concen: 4.531 ug/l
RT: 14.11 min Scan# 2072
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.5	40.6	121.7





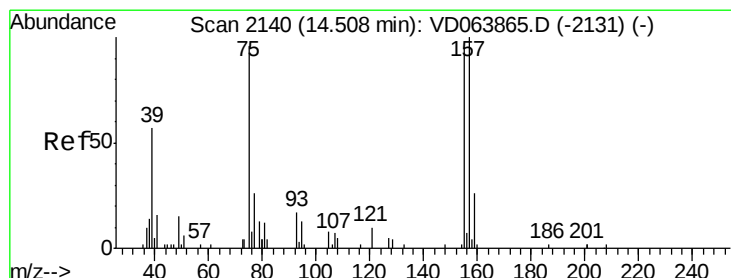
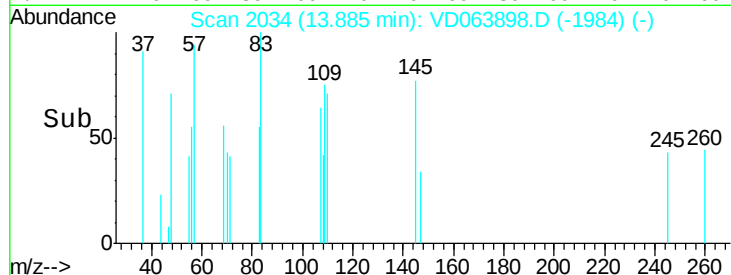
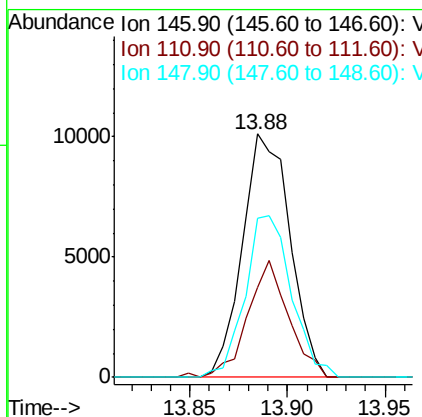
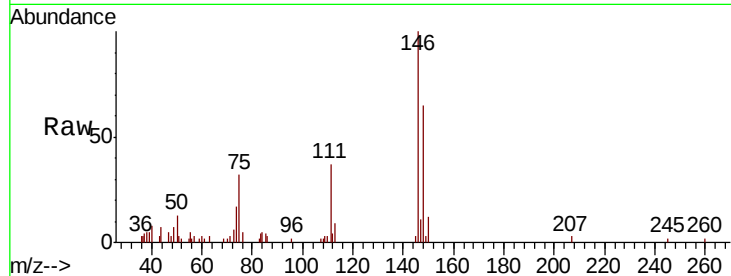
#91
 1,2-Dichlorobenzene
 Concen: 4.184 ug/l
 RT: 13.88 min Scan# 2034
 Delta R.T. -0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

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

Tot Ion:146 Resp: 17078
 Ion Ratio Lower Upper
 146 100
 111 41.2 18.6 55.6
 148 64.7 31.6 95.0

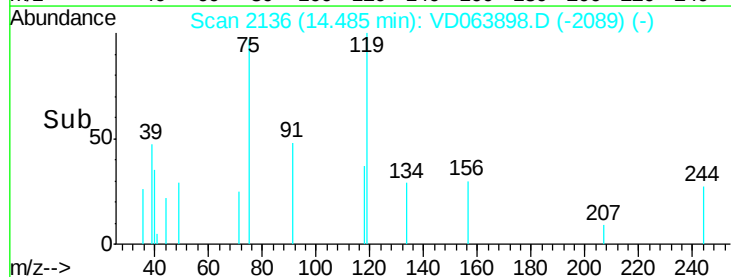
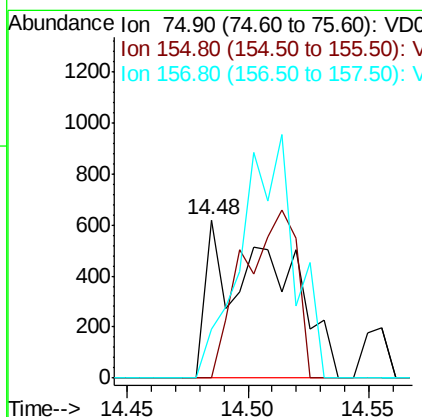
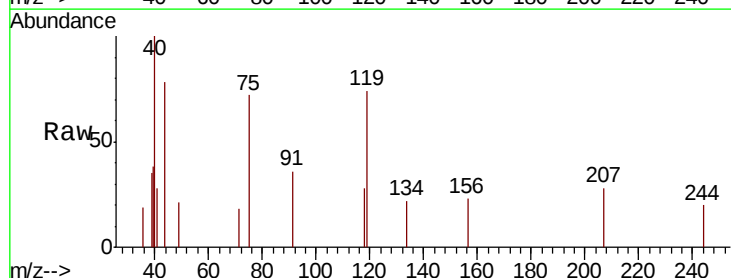
Manual Integrations
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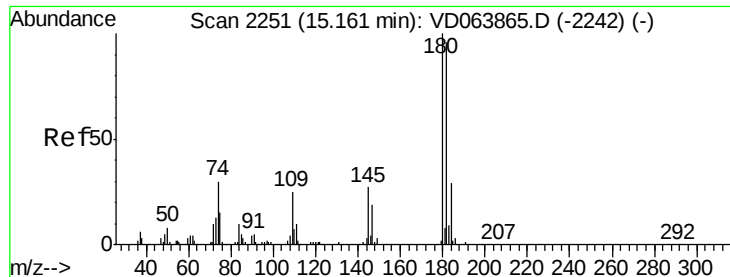
MMDadoda
 10/10/2019 1:46:14 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.270 ug/l m
 RT: 14.48 min Scan# 2136
 Delta R.T. -0.02 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion: 75 Resp: 1237
 Ion Ratio Lower Upper
 75 100
 155 82.7 43.9 131.6
 157 118.5 56.0 167.9





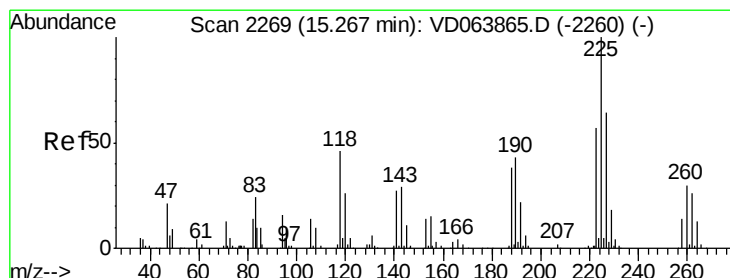
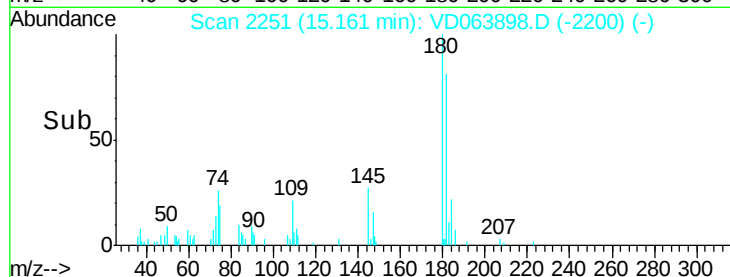
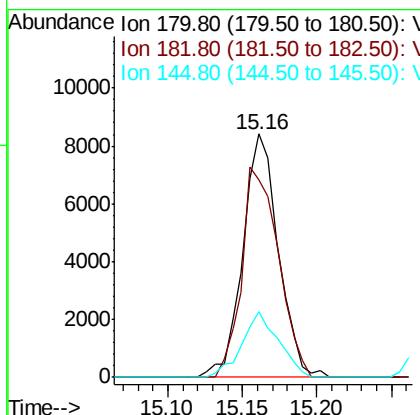
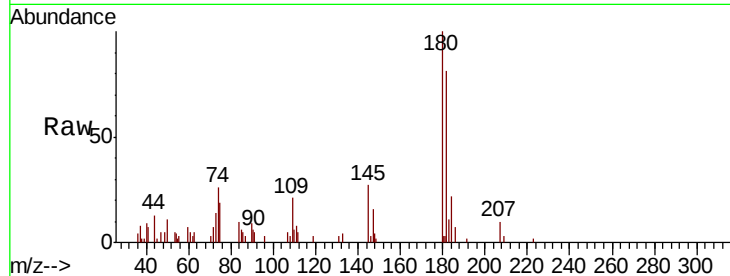
#93
1,2,4-Trichlorobenzene
Concen: 4.391 ug/l
RT: 15.16 min Scan# 2251
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.8	47.4	142.3
145	27.9	13.9	41.7

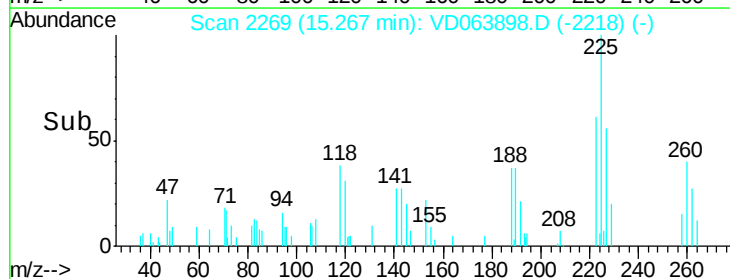
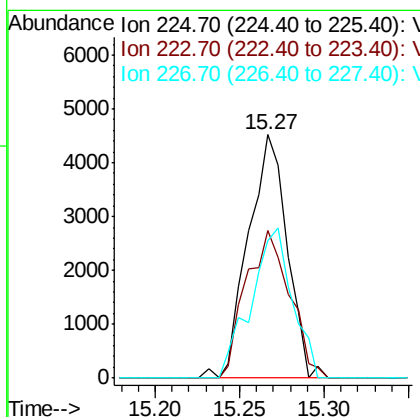
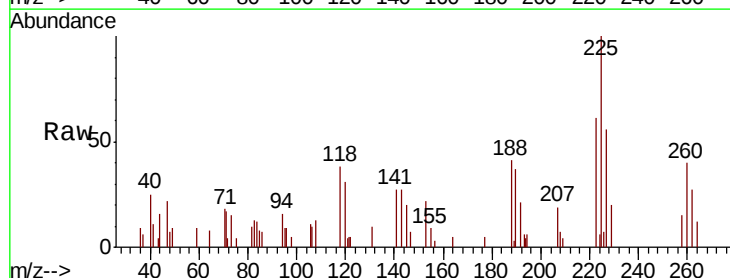
Manual Integrations
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#94
Hexachlorobutadiene
Concen: 4.149 ug/l
RT: 15.27 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	68.1	29.5	88.6
227	65.5	30.8	92.4





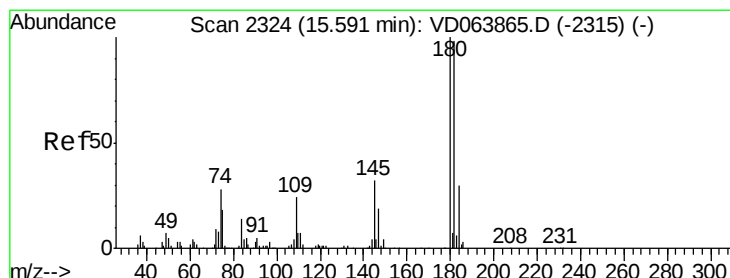
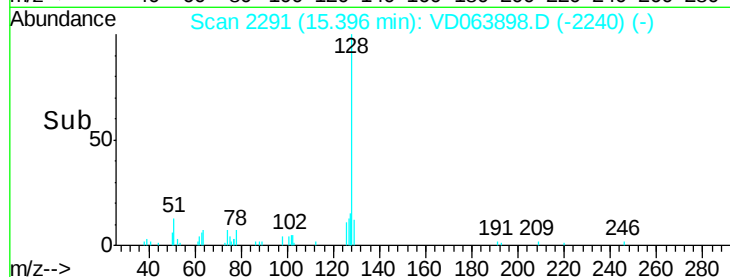
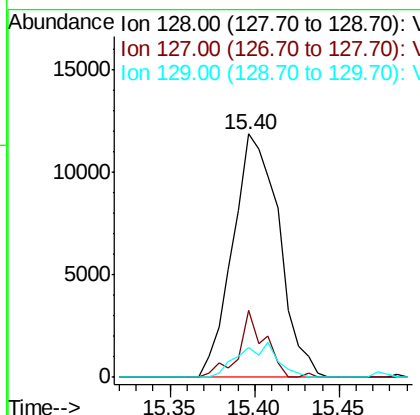
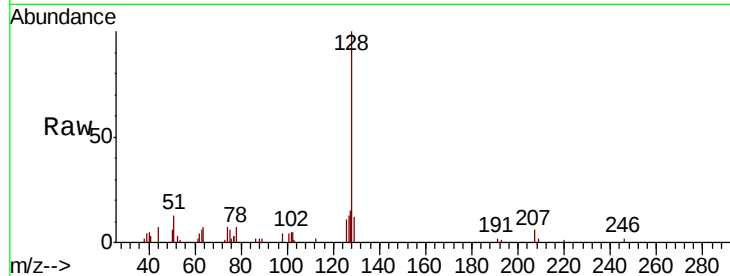
#95
Naphthalene
Concen: 4.263 ug/l
RT: 15.40 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.4	10.6	16.0
129	11.9	8.6	13.0

Manual Integrations
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10/10/2019 1:46:14 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.147 ug/l
RT: 15.60 min Scan# 2325
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.8	47.0	141.0
145	36.0	15.3	45.9

