

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100419\
 Data File : VD063888.D
 Acq On : 04 Oct 2019 16:44
 Operator : VA/SY
 Sample : K5111-01 2.5PPB LOD
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Manual Integrations
 APPROVED

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 10/8/2019 3:11:58 PM

Quant Time: Oct 05 03:45:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 04 01:55:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	175731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	297240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	285503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	142293	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	91491	53.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.96%	
35) Dibromofluoromethane	7.92	113	89948	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	10.34	98	373792	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
62) 4-Bromofluorobenzene	12.63	95	117378	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.98	85	3269	2.623	ug/l #	53
3) Chloromethane	2.21	50	12173	3.189	ug/l #	86
4) Vinyl Chloride	2.35	62	10742	2.667	ug/l	95
5) Bromomethane	2.78	94	6787	2.621	ug/l #	63
6) Chloroethane	2.93	64	7683	2.884	ug/l	94
7) Trichlorofluoromethane	3.27	101	14421	2.708	ug/l	93
8) Diethyl Ether	3.71	74	2918	3.414	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	4334	2.940	ug/l #	60
10) Methyl Iodide	4.28	142	4270	2.102	ug/l #	45
11) Tert butyl alcohol	5.24	59	1526m	12.575	ug/l	
12) 1,1-Dichloroethene	4.06	96	4545	3.086	ug/l #	52
13) Acrolein	3.93	56	1916m	12.539	ug/l	
14) Allyl chloride	4.71	41	6789	2.773	ug/l	93
15) Acrylonitrile	5.43	53	5998	15.916	ug/l #	86
16) Acetone	4.16	43	7379	16.566	ug/l	99
17) Carbon Disulfide	4.39	76	12835	2.397	ug/l #	90
18) Methyl Acetate	4.73	43	2829m	3.247	ug/l	
19) Methyl tert-butyl Ether	5.49	73	9332	2.447	ug/l	97
20) Methylene Chloride	4.96	84	12475	5.457	ug/l #	90
21) trans-1,2-Dichloroethene	5.46	96	5073	2.767	ug/l #	65
22) Diisopropyl ether	6.36	45	12291	2.458	ug/l #	67
23) Vinyl Acetate	6.30	43	35751m	12.018	ug/l	
24) 1,1-Dichloroethane	6.26	63	7746	2.515	ug/l #	90
25) 2-Butanone	7.22	43	7614	14.424	ug/l	94
26) 2,2-Dichloropropane	7.20	77	9006	3.232	ug/l #	70
27) cis-1,2-Dichloroethene	7.21	96	5891	2.839	ug/l	90
28) Bromochloromethane	7.55	49	3744	3.244	ug/l #	76
29) Tetrahydrofuran	7.57	42	4610	14.962	ug/l #	87
30) Chloroform	7.71	83	9538	2.851	ug/l #	78
31) Cyclohexane	7.98	56	10960	3.795	ug/l #	58
32) 1,1,1-Trichloroethane	7.90	97	6930	2.415	ug/l #	37
36) 1,1-Dichloropropene	8.11	75	6645	2.445	ug/l	95
37) Ethyl Acetate	7.30	43	3672	2.977	ug/l #	78
38) Carbon Tetrachloride	8.10	117	6971	2.538	ug/l #	82

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	9162	2.742	ug/l #	75
40) Benzene	8.35	78	19248	2.471	ug/l #	81
41) Methacrylonitrile	7.54	41	2132m	3.384	ug/l	
42) 1,2-Dichloroethane	8.43	62	5364	2.381	ug/l	96
43) Isopropyl Acetate	8.46	43	5756	2.525	ug/l #	61
44) Trichloroethene	9.11	130	5590	2.489	ug/l	95
45) 1,2-Dichloropropane	9.40	63	4774	2.504	ug/l #	71
46) Dibromomethane	9.48	93	2197m	2.024	ug/l	
47) Bromodichloromethane	9.66	83	6620	2.368	ug/l	90
48) Methyl methacrylate	9.46	41	2531	2.318	ug/l #	78
49) 1,4-Dioxane	9.46	88	206	13.901	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	14497	12.264	ug/l	93
52) Toluene	10.40	92	12356	2.311	ug/l	92
53) t-1,3-Dichloropropene	10.62	75	5786	2.121	ug/l #	85
54) cis-1,3-Dichloropropene	10.09	75	7357	2.343	ug/l	93
55) 1,1,2-Trichloroethane	10.80	97	3936	2.568	ug/l #	70
56) Ethyl methacrylate	10.66	69	4326	2.229	ug/l #	79
57) 1,3-Dichloropropane	10.94	76	6019	2.295	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.94	63	8914	10.683	ug/l	94
59) 2-Hexanone	10.99	43	9828	11.494	ug/l	97
60) Dibromochloromethane	11.14	129	4698	2.354	ug/l	84
61) 1,2-Dibromoethane	11.24	107	3815	2.567	ug/l	97
64) Tetrachloroethene	10.87	164	4033	2.069	ug/l #	78
65) Chlorobenzene	11.67	112	13810	2.409	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	4656	2.204	ug/l	93
67) Ethyl Benzene	11.74	91	24430	2.363	ug/l	100
68) m/p-Xylenes	11.85	106	17947	4.497	ug/l	96
69) o-Xylene	12.17	106	8089	2.117	ug/l	98
70) Styrene	12.20	104	14085	2.177	ug/l	98
71) Bromoform	12.35	173	2183	1.925	ug/l #	89
73) Isopropylbenzene	12.48	105	22199	2.321	ug/l	94
74) N-amyl acetate	12.29	43	5051	2.453	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	4116	2.473	ug/l #	92
76) 1,2,3-Trichloropropane	12.78	75	2027m	2.127	ug/l	
77) Bromobenzene	12.76	156	5034	2.112	ug/l	68
78) n-propylbenzene	12.82	91	26525	2.362	ug/l	100
79) 2-Chlorotoluene	12.91	91	14589	2.356	ug/l	95
80) 1,3,5-Trimethylbenzene	12.96	105	17536	2.197	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	1303m	2.419	ug/l	
82) 4-Chlorotoluene	13.01	91	14723	2.242	ug/l	99
83) tert-Butylbenzene	13.23	119	14728	2.074	ug/l	91
84) 1,2,4-Trimethylbenzene	13.27	105	16982	2.064	ug/l	96
85) sec-Butylbenzene	13.40	105	23146	2.413	ug/l	99
86) p-Isopropyltoluene	13.51	119	19537	2.153	ug/l	96
87) 1,3-Dichlorobenzene	13.52	146	10563	2.243	ug/l	94
88) 1,4-Dichlorobenzene	13.60	146	11734	2.526	ug/l	85
89) n-Butylbenzene	13.84	91	19200	2.273	ug/l	95
90) Hexachloroethane	14.11	117	4138	2.535	ug/l	79
91) 1,2-Dichlorobenzene	13.89	146	8482	2.090	ug/l	84
92) 1,2-Dibromo-3-Chloropropan	14.51	75	518	1.799	ug/l	77

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	7332	2.342	ug/l	97
94) Hexachlorobutadiene	15.26	225	3745	2.167	ug/l	87
95) Naphthalene	15.40	128	11246	2.137	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.59	180	6545	2.423	ug/l	97

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

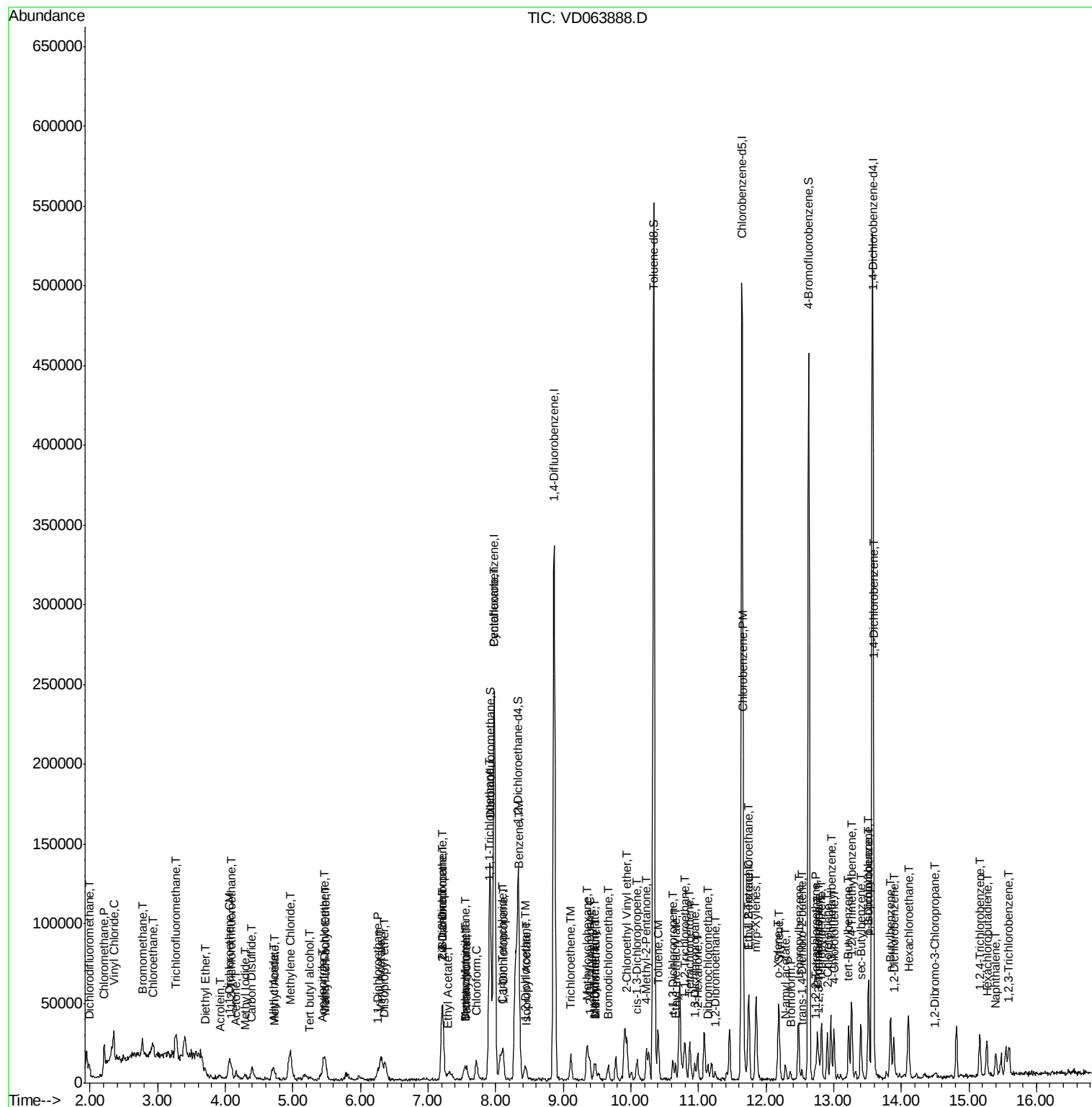
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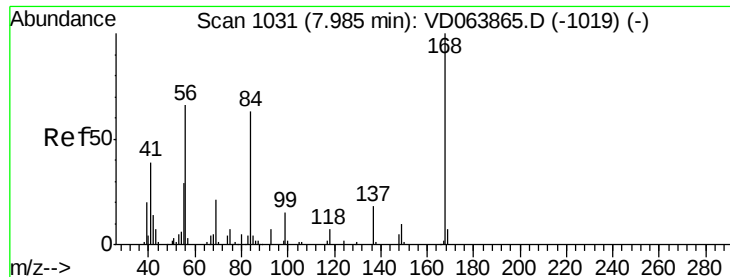
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:168 Resp: 175731

Ion Ratio Lower Upper

168 100

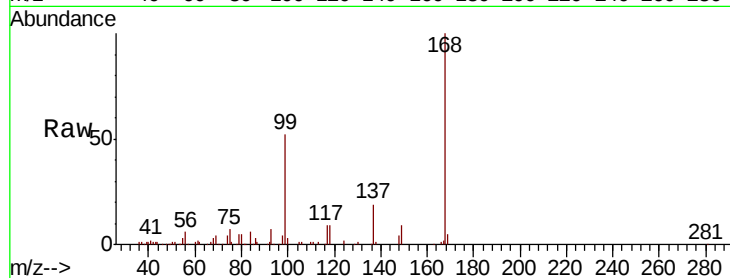
99 51.6 43.0 64.4

Manual Integrations

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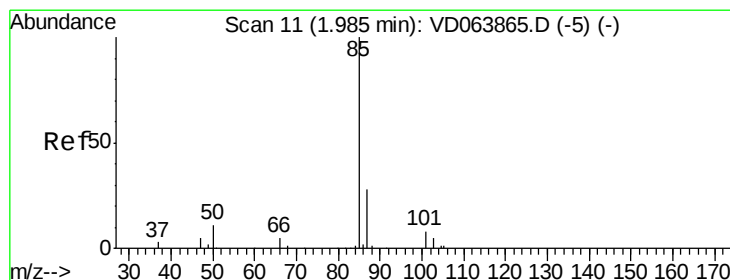
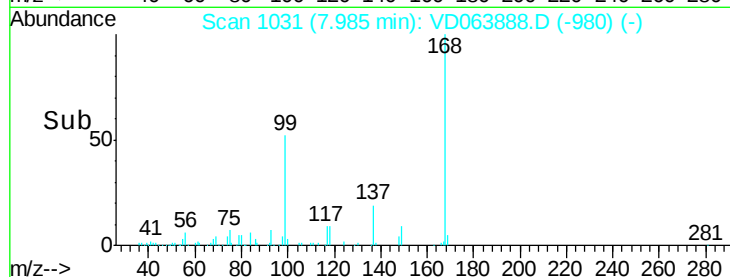
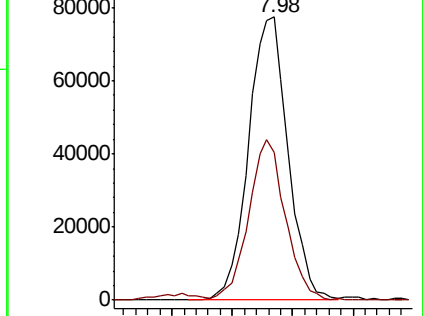
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 2.623 ug/l

RT: 1.98 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063888.D

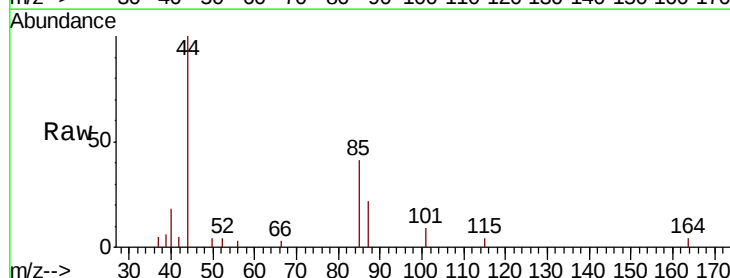
Acq: 04 Oct 2019 16:44

Tgt Ion: 85 Resp: 3269

Ion Ratio Lower Upper

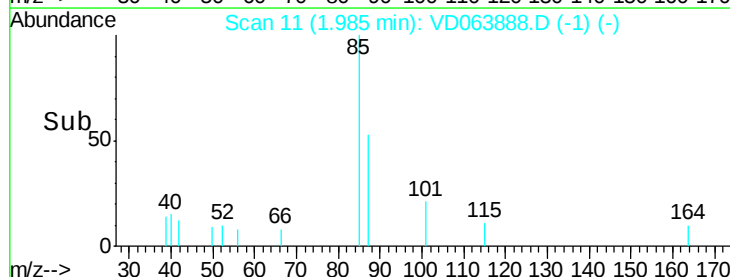
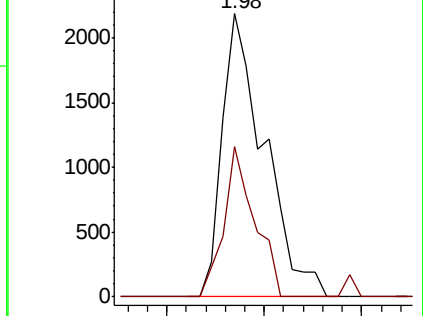
85 100

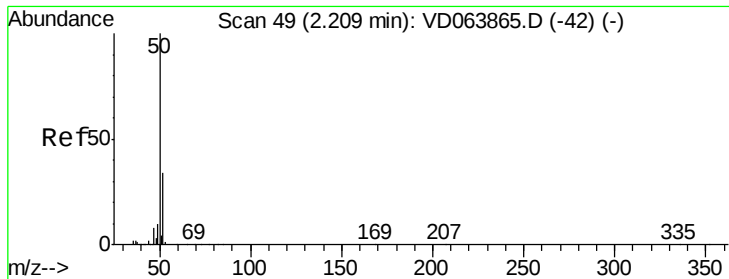
87 53.0 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 3.189 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 50 Resp: 12173

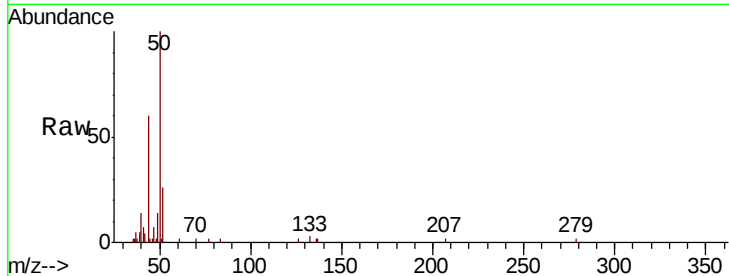
Ion Ratio Lower Upper

50 100

52 26.5 27.5 41.3#

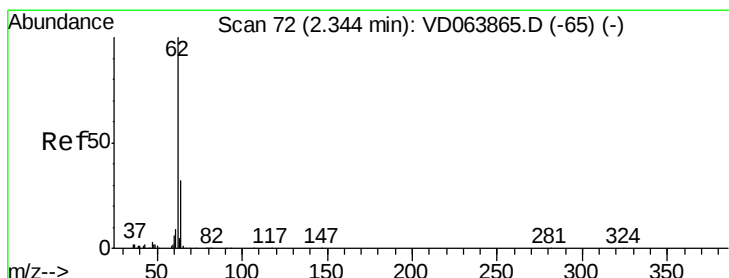
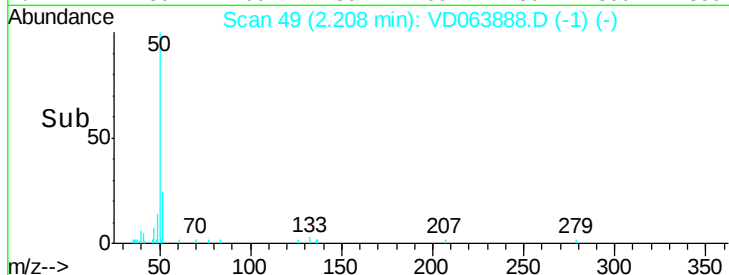
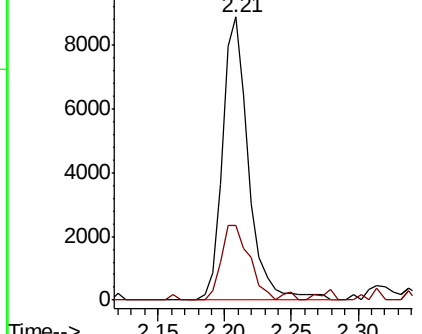
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 2.667 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063888.D

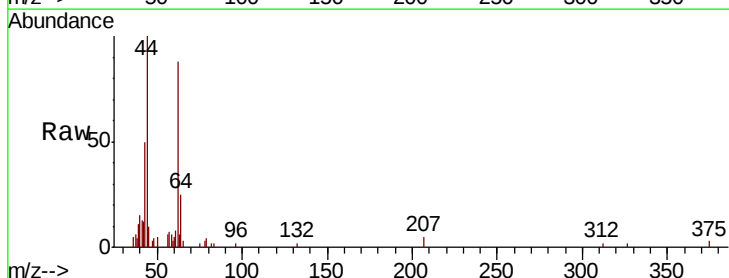
Acq: 04 Oct 2019 16:44

Tgt Ion: 62 Resp: 10742

Ion Ratio Lower Upper

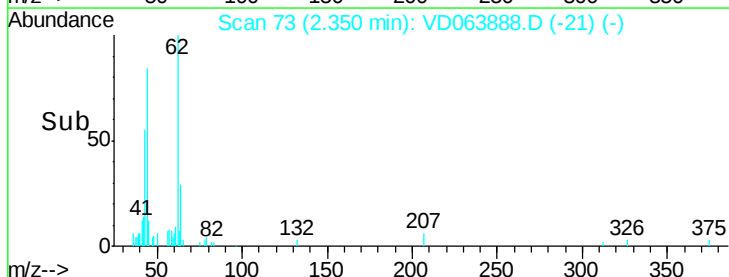
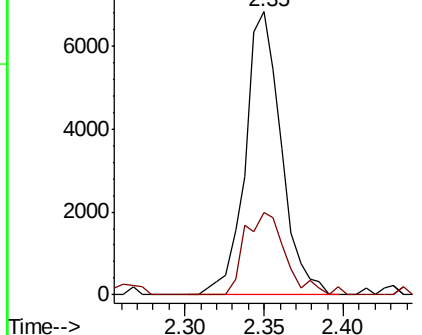
62 100

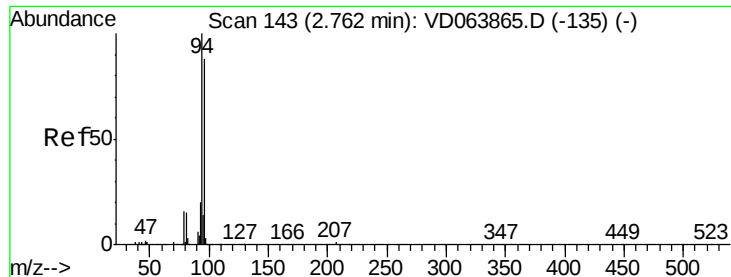
64 28.9 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 2.621 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.02 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

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Tot Ion: 94 Resp: 6787

Ion Ratio Lower Upper

94 100

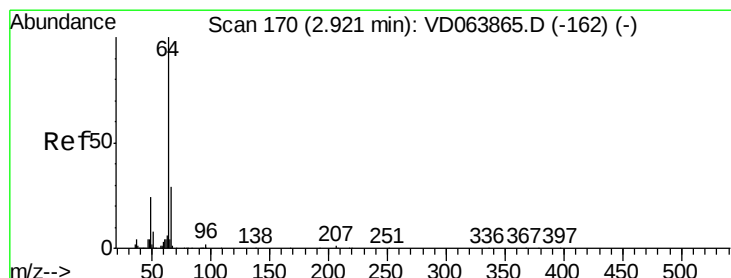
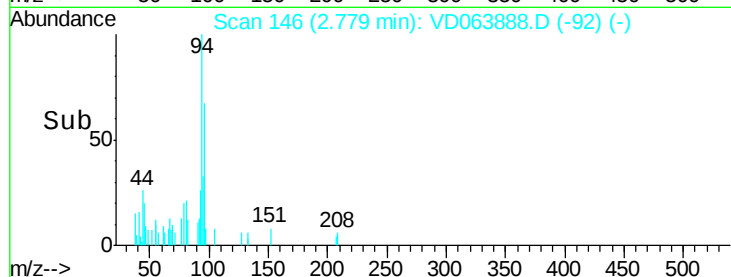
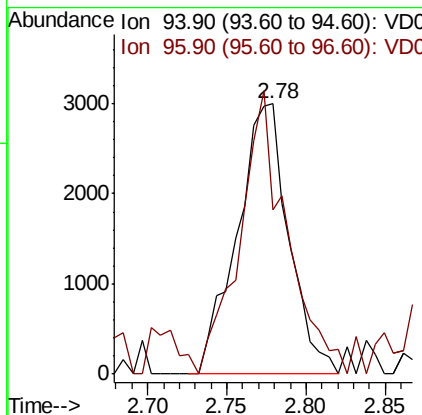
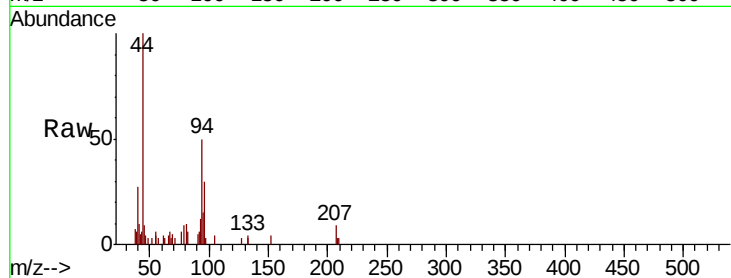
96 53.6 70.8 106.2#

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#6

Chloroethane

Concen: 2.884 ug/l

RT: 2.93 min Scan# 172

Delta R.T. 0.01 min

Lab File: VD063888.D

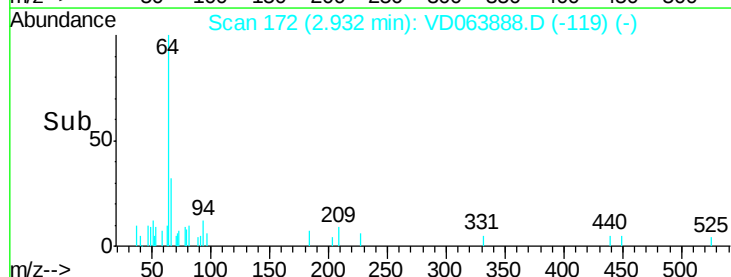
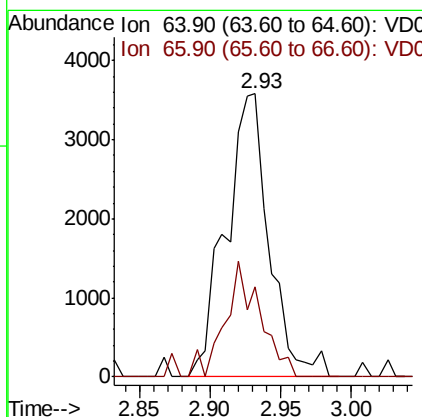
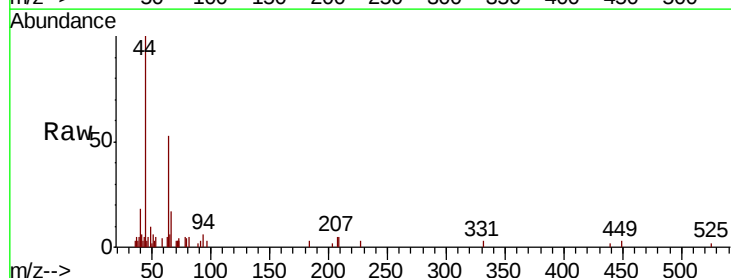
Acq: 04 Oct 2019 16:44

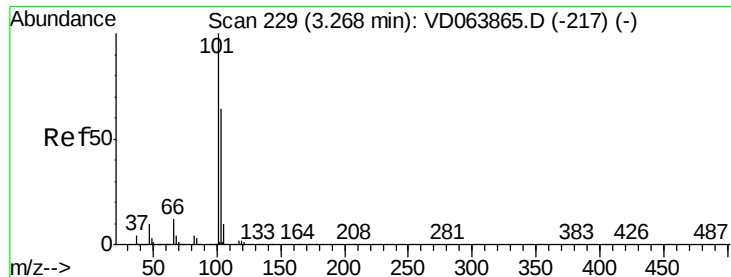
Tgt Ion: 64 Resp: 7683

Ion Ratio Lower Upper

64 100

66 31.6 23.0 34.4





#7

Trichlorofluoromethane

Concen: 2.708 ug/l

RT: 3.27 min Scan# 229

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 14421

Ion Ratio Lower Upper

101 100

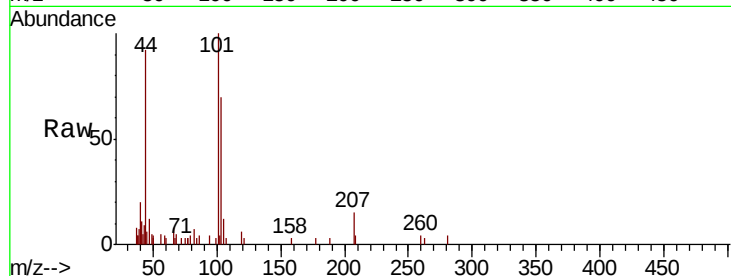
103 69.7 51.1 76.7

Manual Integrations

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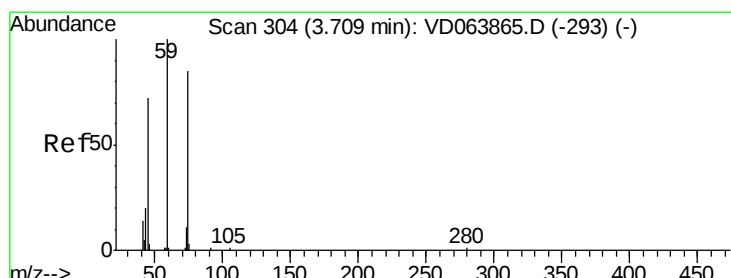
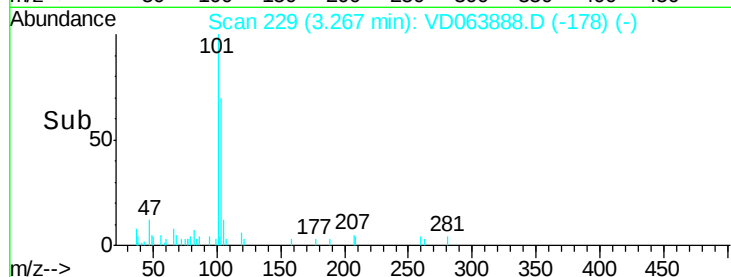
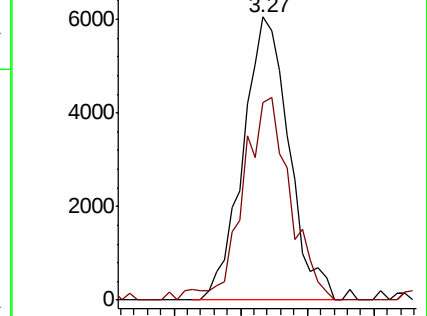
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 3.414 ug/l

RT: 3.71 min Scan# 304

Delta R.T. -0.00 min

Lab File: VD063888.D

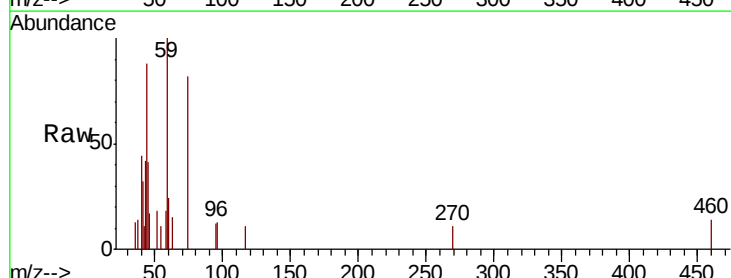
Acq: 04 Oct 2019 16:44

Tgt Ion: 74 Resp: 2918

Ion Ratio Lower Upper

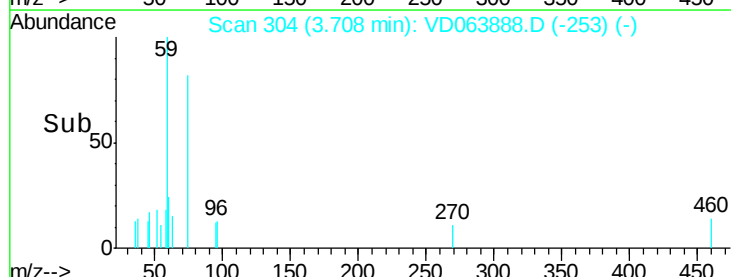
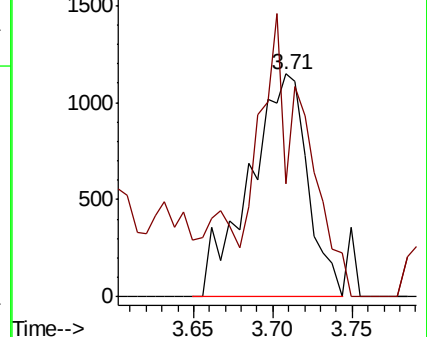
74 100

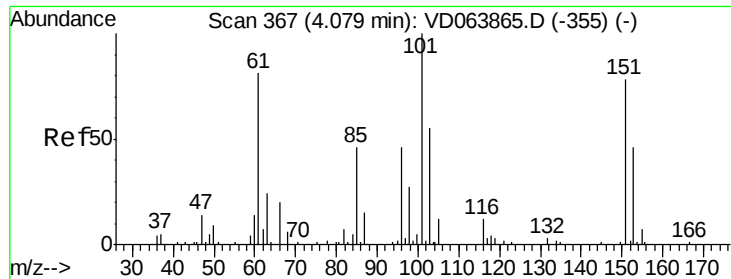
45 97.6 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.940 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

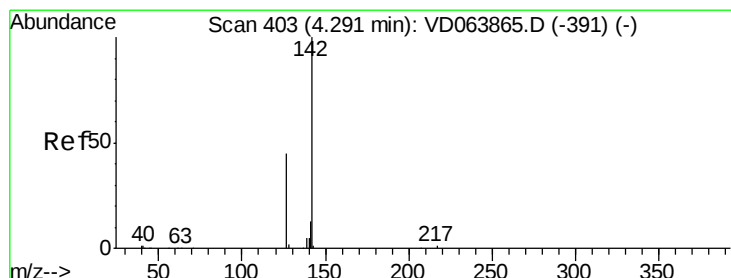
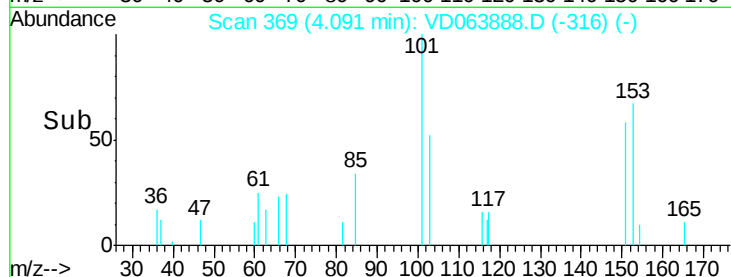
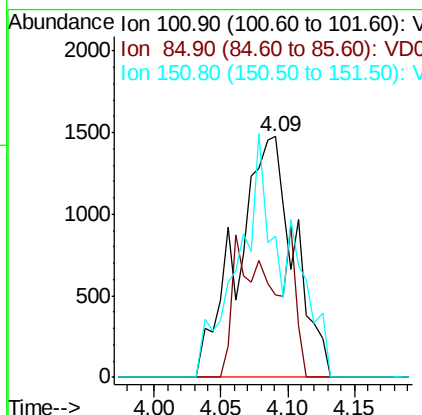
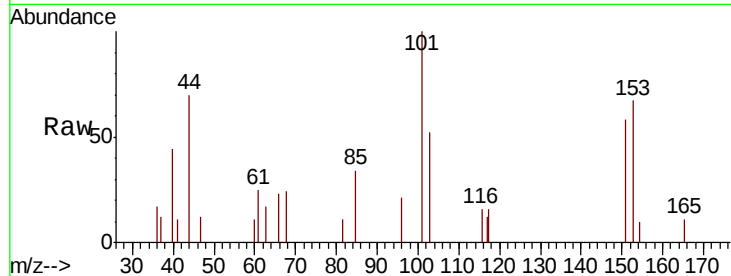
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	101	Resp:	4334
Ion Ratio	Lower	Upper	
101	100		
85	0.0	37.5	56.3#
151	61.5	65.5	98.3#

Manual Integrations
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#10

Methyl Iodide

Concen: 2.102 ug/l

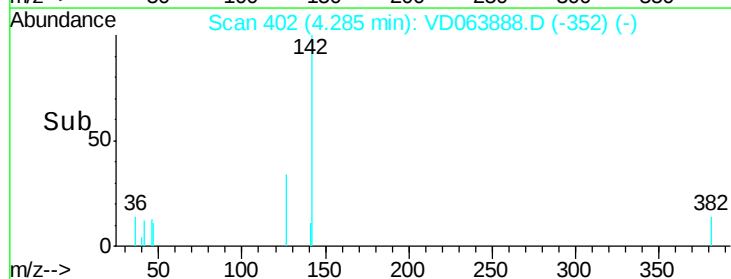
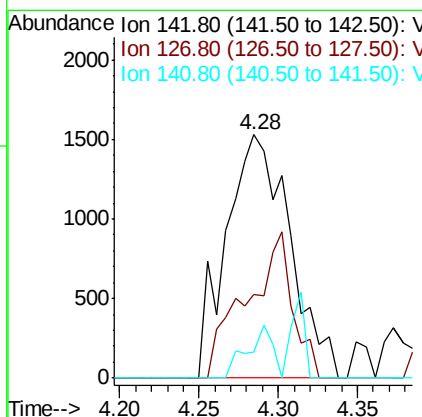
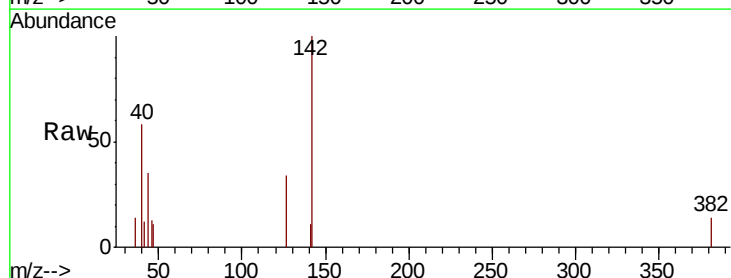
RT: 4.28 min Scan# 402

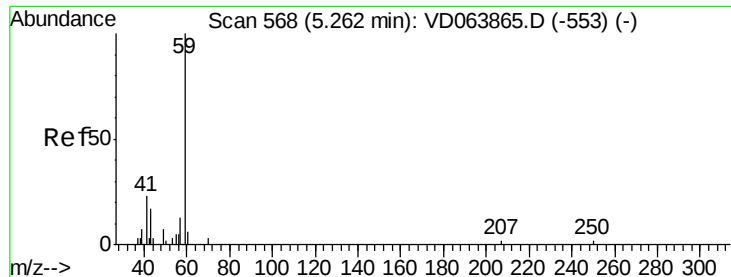
Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion:	142	Resp:	4270
Ion Ratio	Lower	Upper	
142	100		
127	0.0	35.3	52.9#
141	8.6	12.2	18.2#





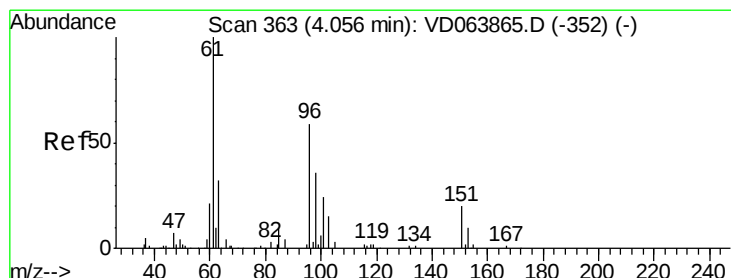
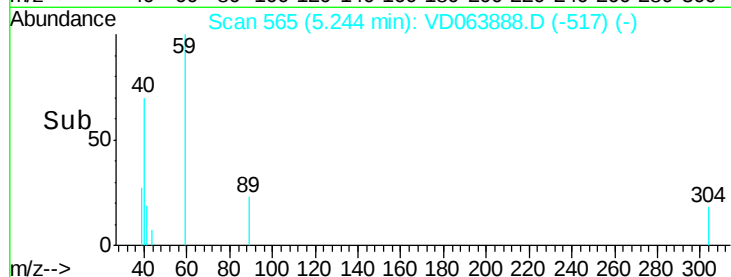
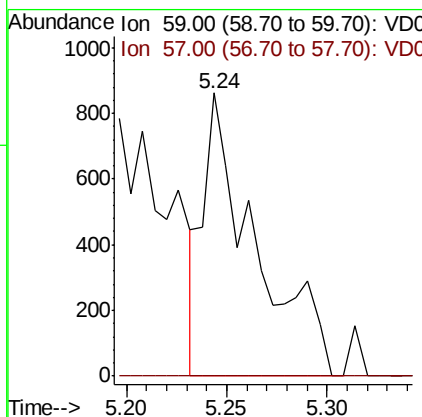
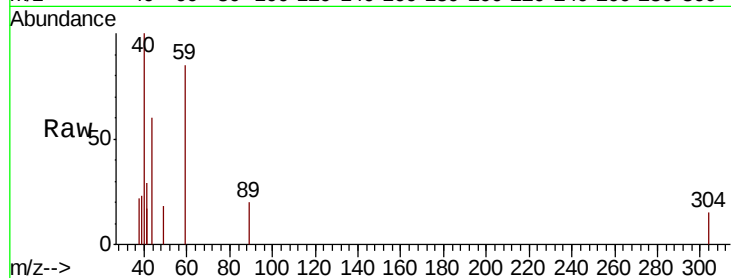
#11
Tert butyl alcohol
Concen: 12.575 ug/l m
RT: 5.24 min Scan# 565
Delta R.T. -0.02 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 59 Resp: 1526
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

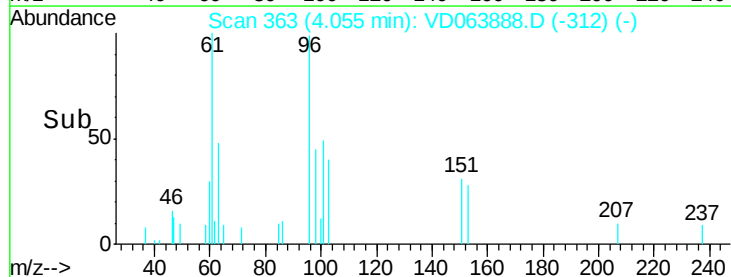
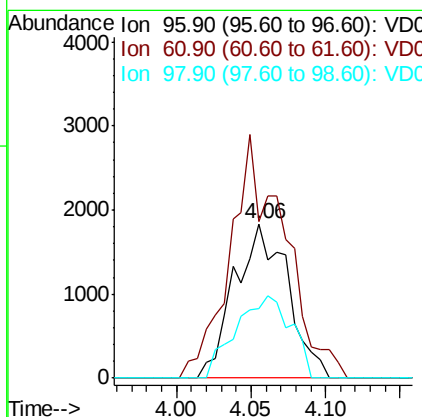
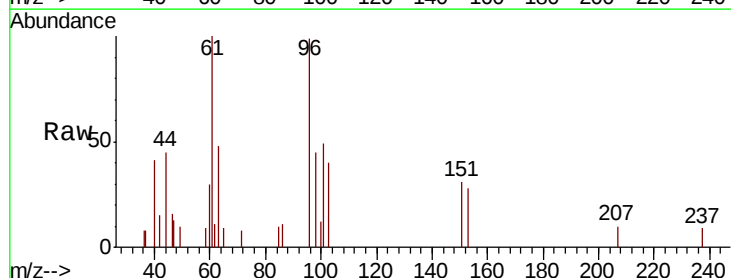
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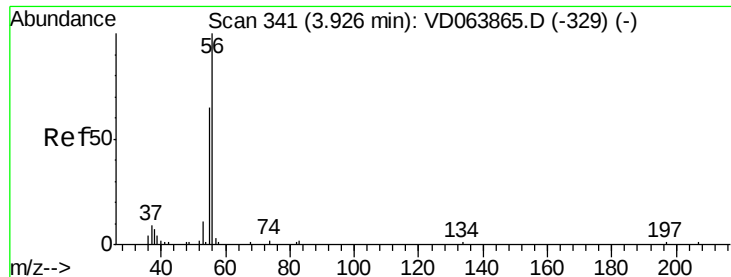
MMDadoda
10/8/2019 3:11:58 PM



#12
1,1-Dichloroethene
Concen: 3.086 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 96 Resp: 4545
Ion Ratio Lower Upper
96 100
61 90.7 135.6 203.4#
98 45.2 49.2 73.8#





#13

Acrolein

Concen: 12.539 ug/l m

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 56 Resp: 1916

Ion Ratio Lower Upper

56 100

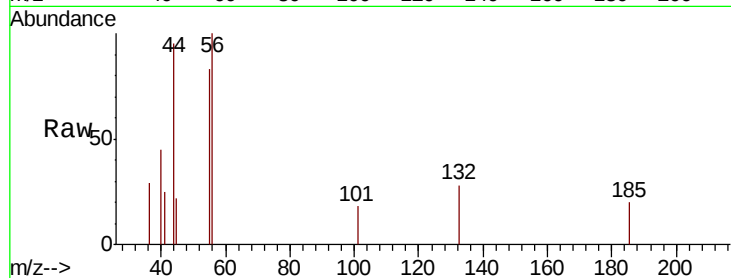
55 81.5 53.0 79.6#

Manual Integrations

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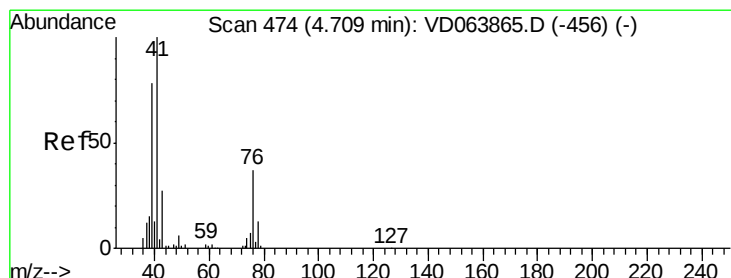
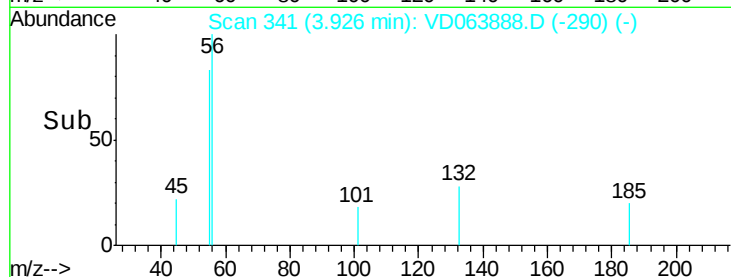
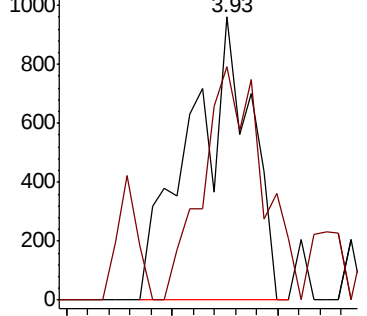
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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.773 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

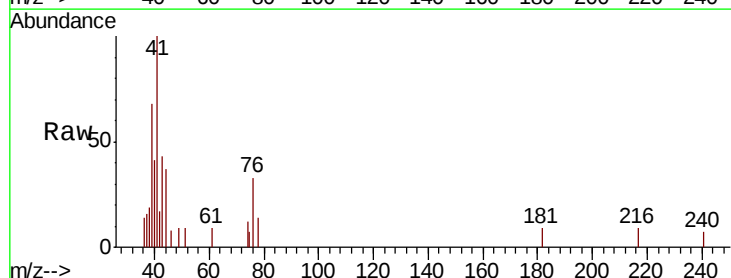
Tgt Ion: 41 Resp: 6789

Ion Ratio Lower Upper

41 100

39 85.6 61.8 92.6

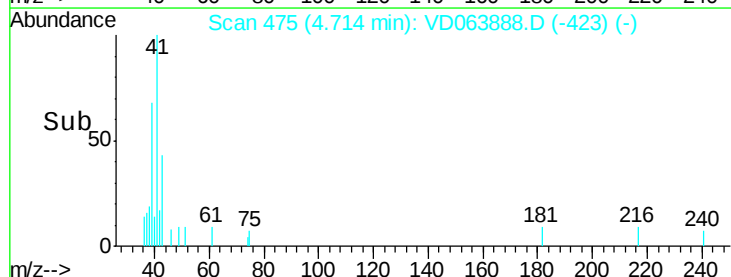
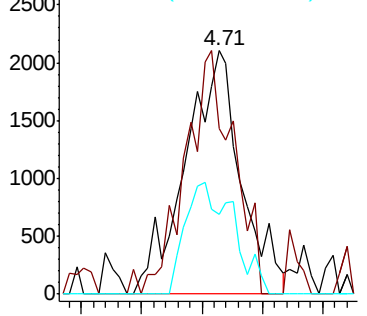
76 39.6 31.3 46.9

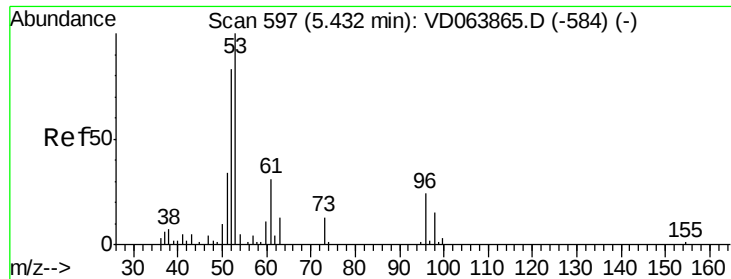


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 15.916 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

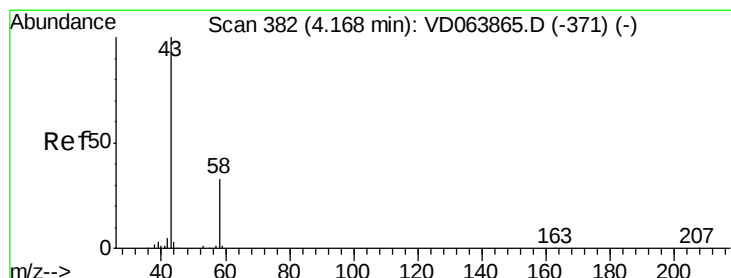
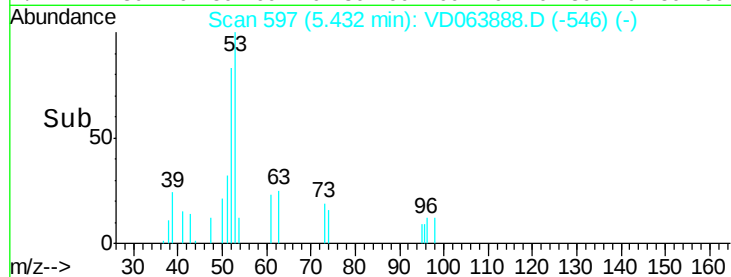
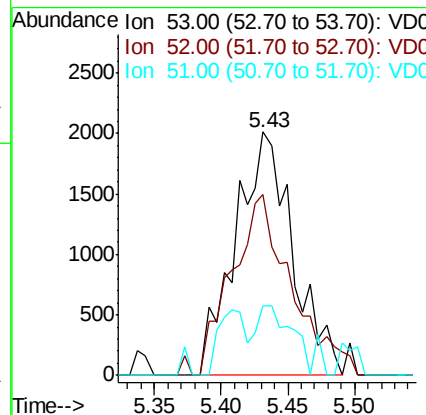
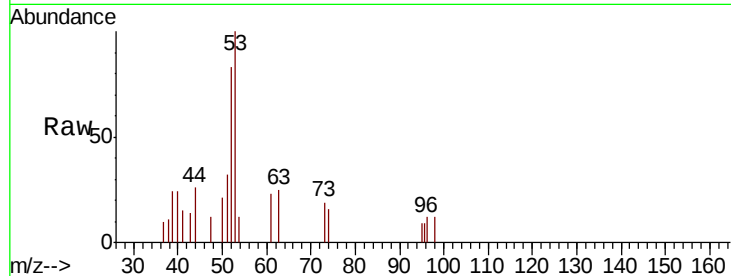
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	53	Resp:	5998
Ion	Ratio	Lower	Upper
53	100		
52	78.6	67.3	100.9
51	19.7	30.5	45.7#

Manual Integrations
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#16

Acetone

Concen: 16.566 ug/l

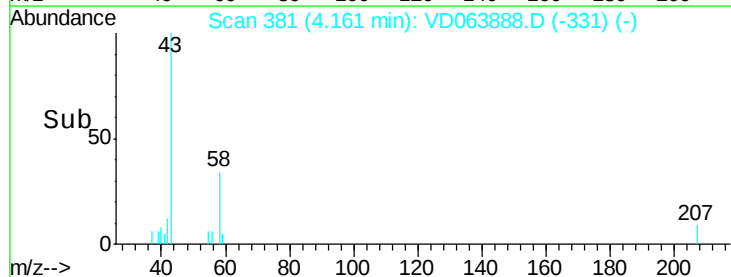
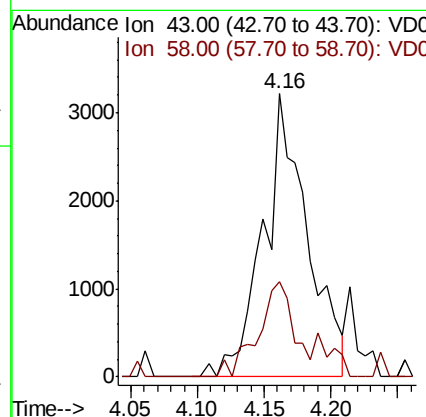
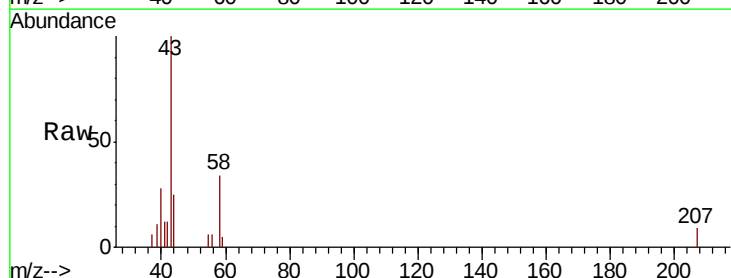
RT: 4.16 min Scan# 381

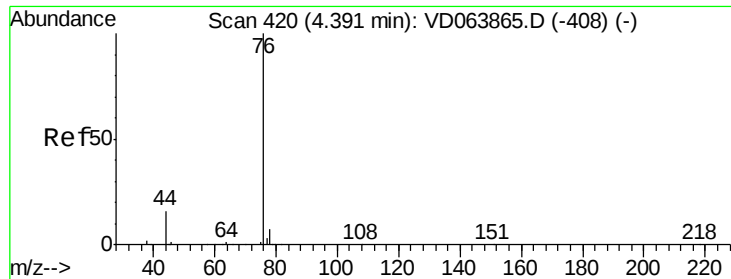
Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion:	43	Resp:	7379
Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.2	39.4





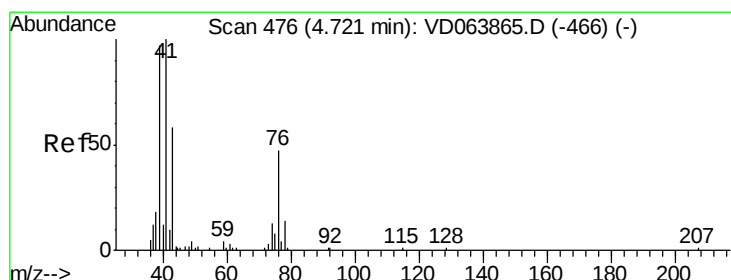
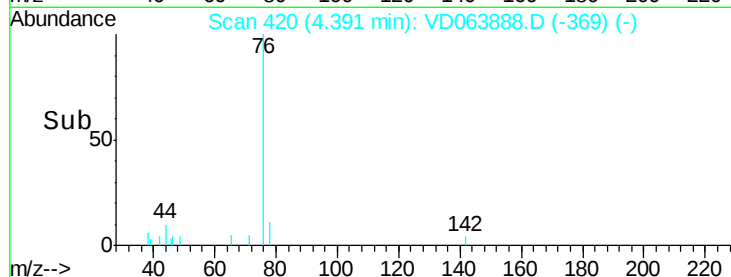
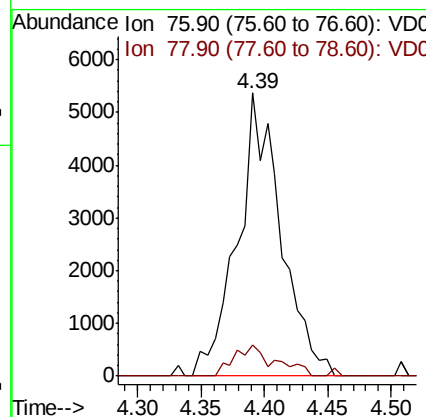
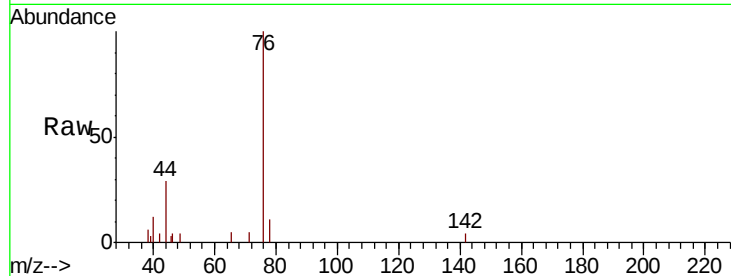
#17
Carbon Disulfide
Concen: 2.397 ug/l
RT: 4.39 min Scan# 420
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.8	5.8	8.8#

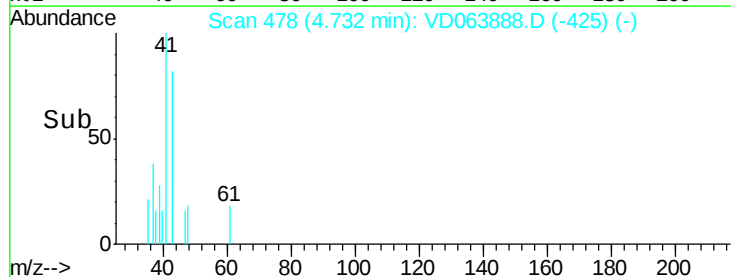
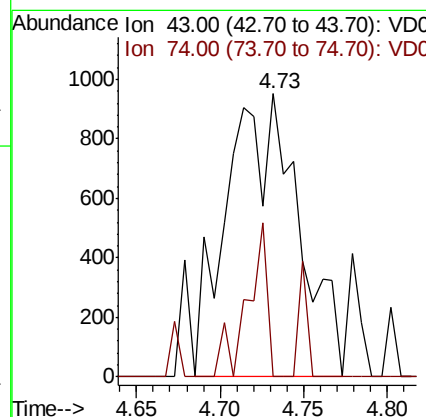
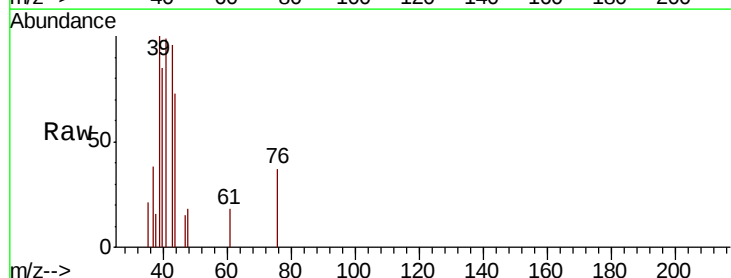
Manual Integrations
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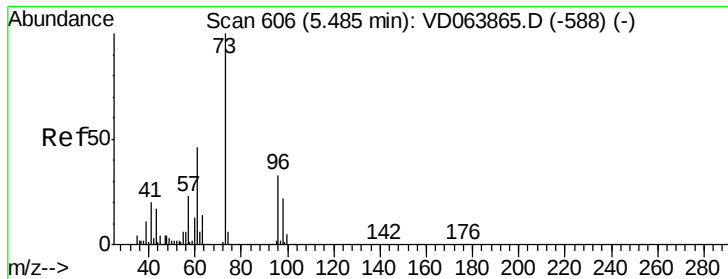
MMDadoda
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#18
Methyl Acetate
Concen: 3.247 ug/l m
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
43	100		
74	15.1	20.8	31.2#





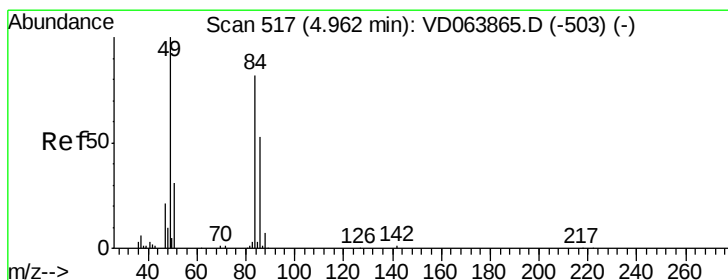
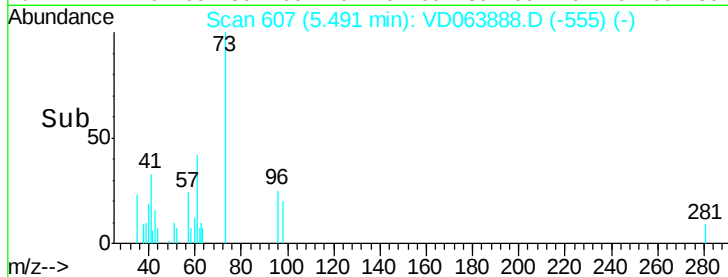
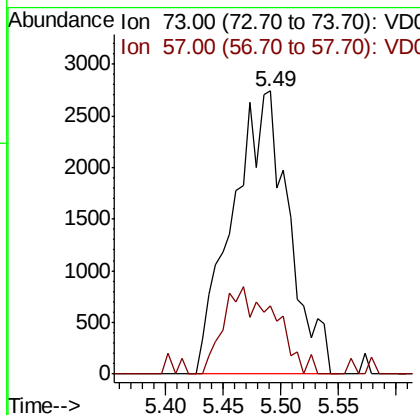
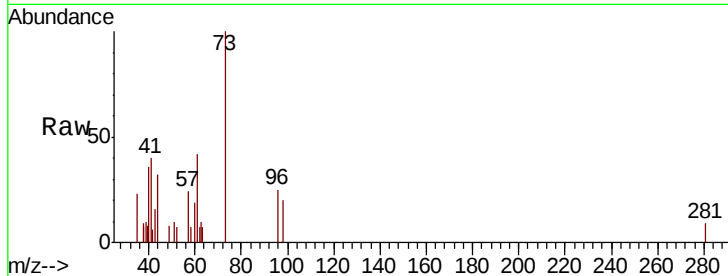
#19
Methvl tert-butvl Ether
Concen: 2.447 ug/l
RT: 5.49 min Scan# 607
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 73 Resp: 9332
Ion Ratio Lower Upper
73 100
57 24.3 18.1 27.1

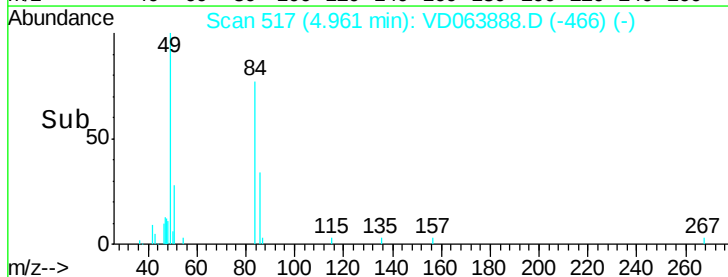
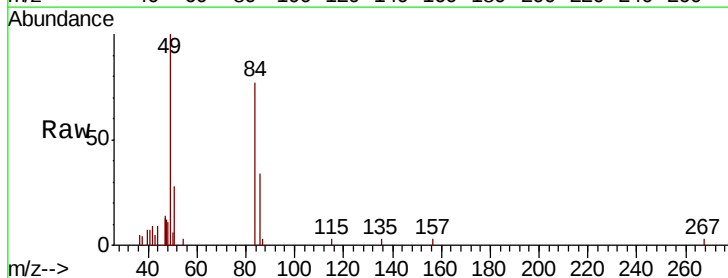
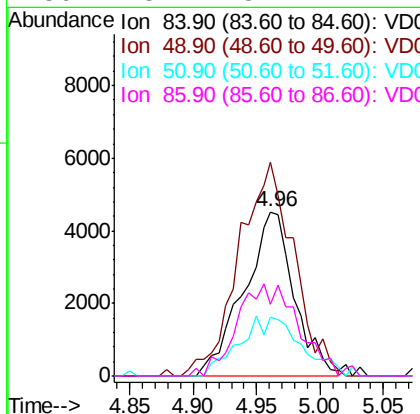
Manual Integrations
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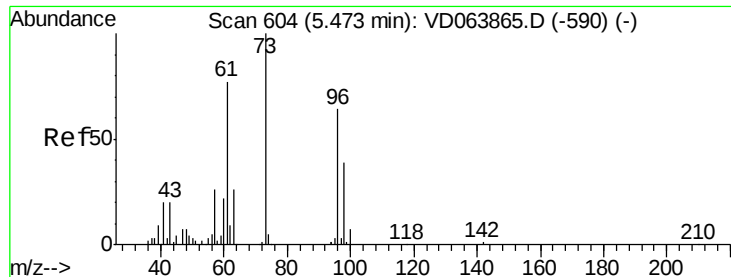
MMDadoda
10/8/2019 3:11:58 PM



#20
Methylene Chloride
Concen: 5.457 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 84 Resp: 12475
Ion Ratio Lower Upper
84 100
49 126.2 97.3 145.9
51 36.0 30.1 45.1
86 43.7 51.4 77.2#





#21

trans-1,2-Dichloroethene

Concen: 2.767 ug/l

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

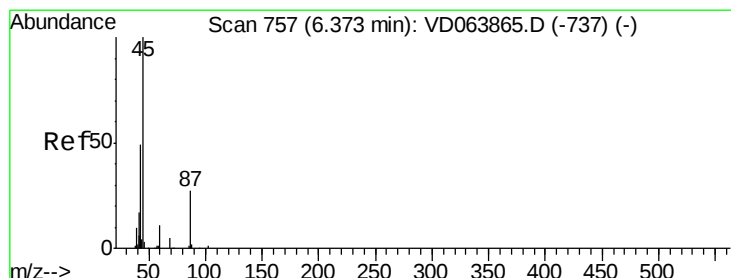
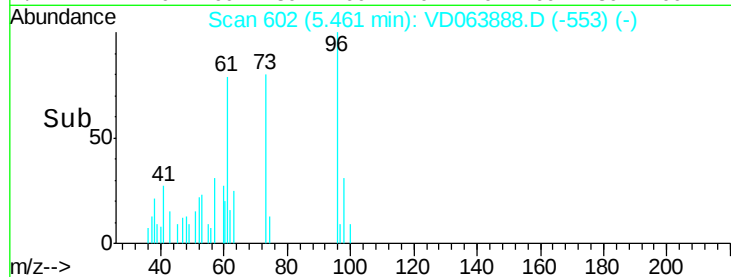
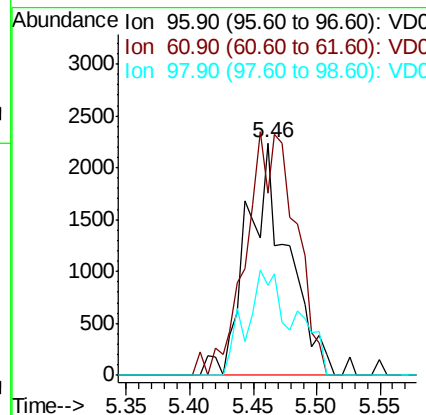
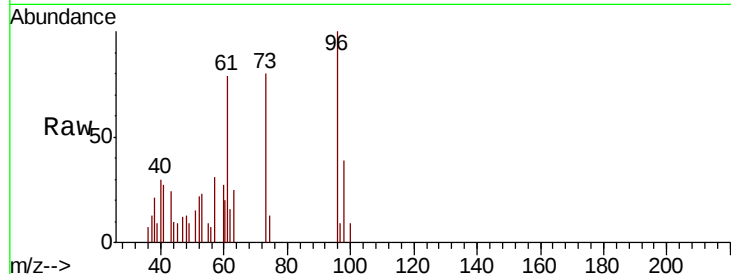
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	96	Resp:	5073
Ion	Ratio	Lower	Upper
96	100		
61	78.6	96.6	145.0#
98	38.6	48.7	73.1#

Manual Integrations
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10/8/2019 3:11:58 PM



#22

Diisopropyl ether

Concen: 2.458 ug/l

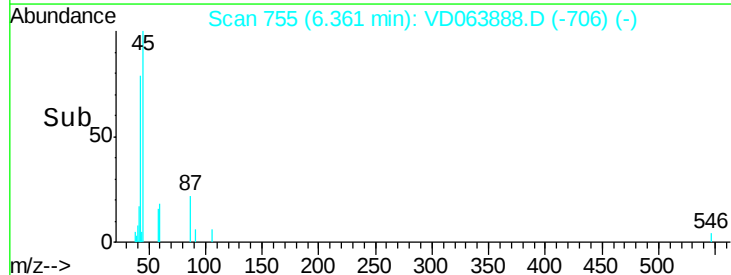
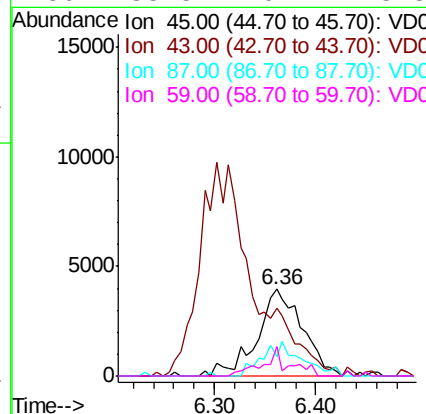
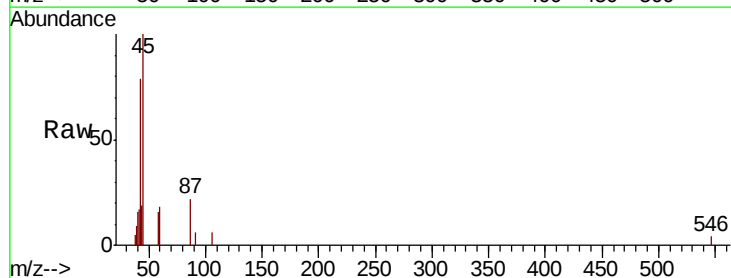
RT: 6.36 min Scan# 755

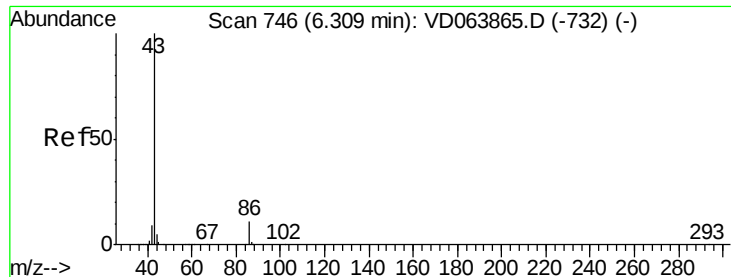
Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion:	45	Resp:	12291
Ion	Ratio	Lower	Upper
45	100		
43	79.0	41.2	61.8#
87	21.7	22.2	33.4#
59	33.5	9.2	13.8#





#23

Vinyl Acetate

Concen: 12.018 ug/l m

RT: 6.30 min Scan# 745

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 35751

Ion Ratio Lower Upper

43 100

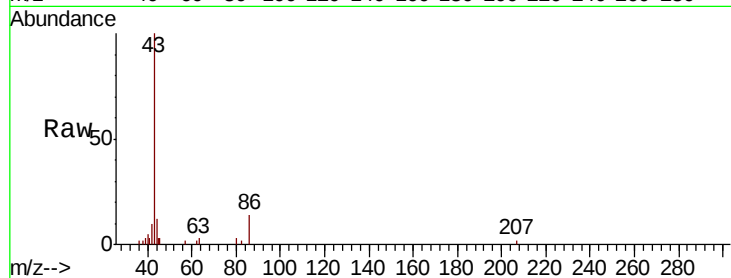
86 14.2 8.8 13.2#

Manual Integrations

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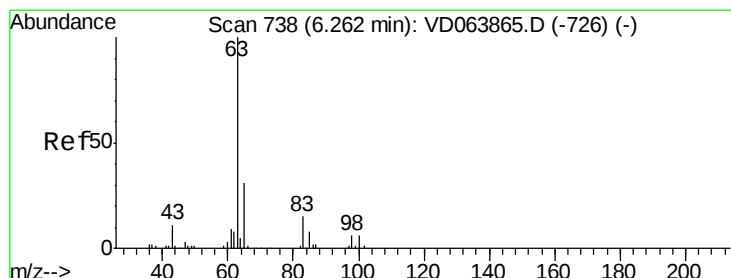
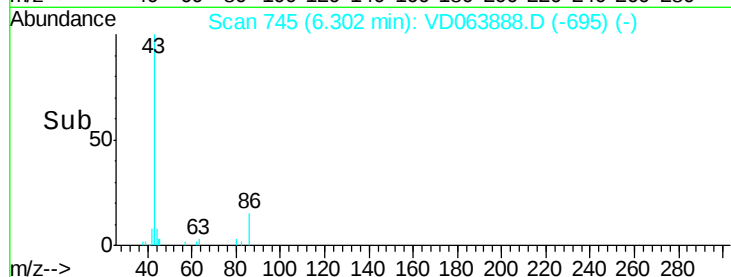
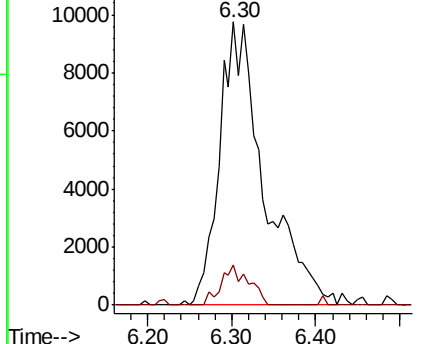
MMDadoda

10/8/2019 3:11:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 2.515 ug/l

RT: 6.26 min Scan# 737

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

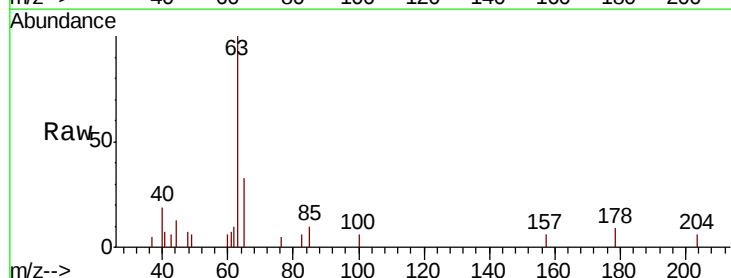
Tgt Ion: 63 Resp: 7746

Ion Ratio Lower Upper

63 100

98 0.0 3.1 9.4#

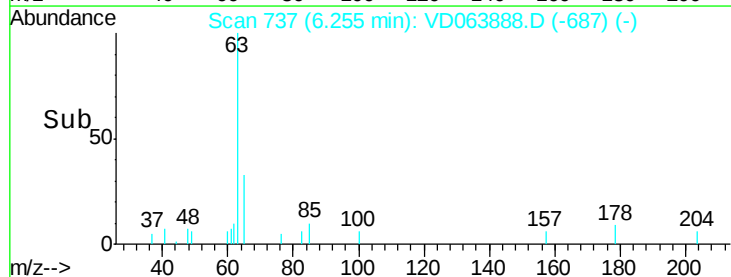
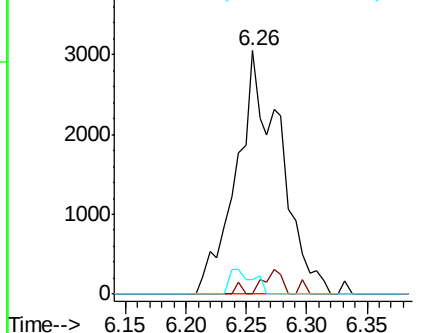
100 6.0 3.0 9.2

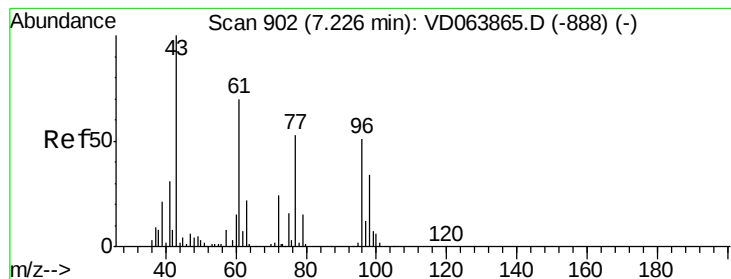


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 14.424 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 7614

Ion Ratio Lower Upper

43 100

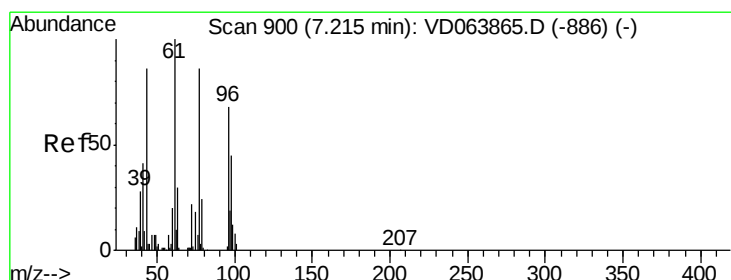
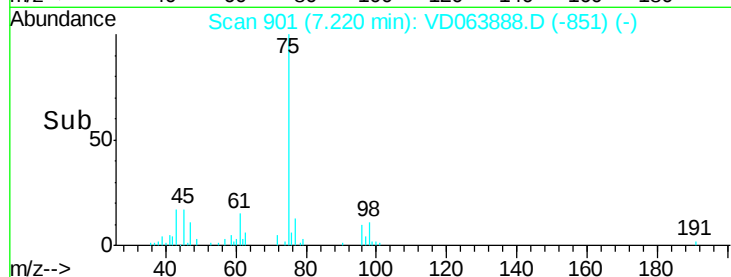
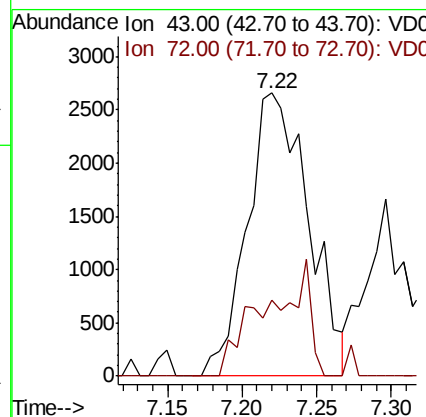
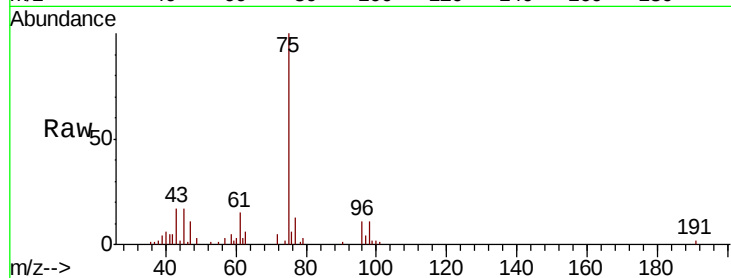
72 26.9 19.2 28.8

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 3.232 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD063888.D

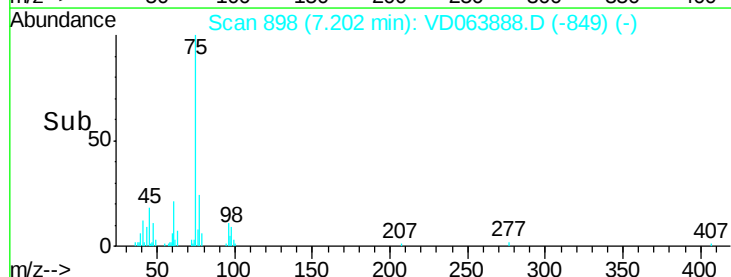
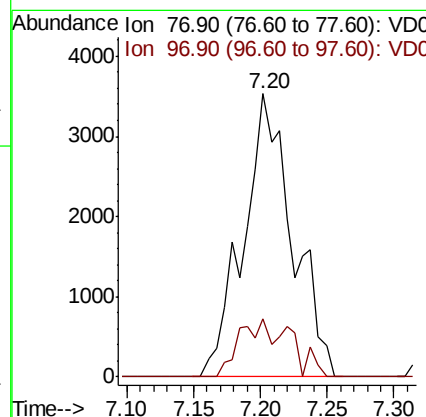
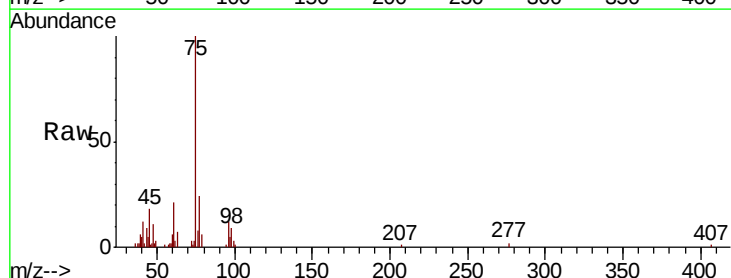
Acq: 04 Oct 2019 16:44

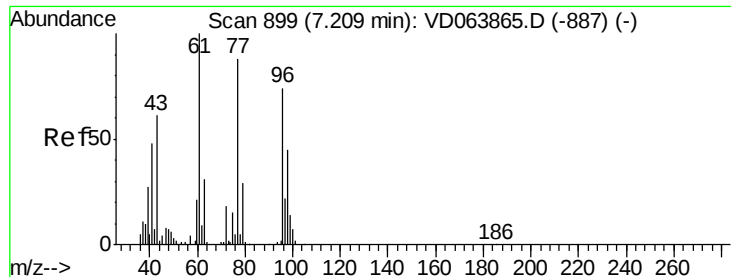
Tgt Ion: 77 Resp: 9006

Ion Ratio Lower Upper

77 100

97 8.3 11.4 34.1#





#27

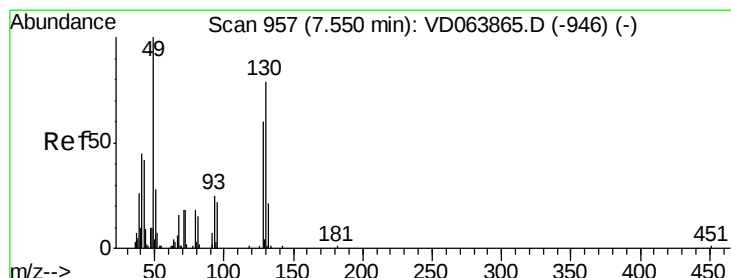
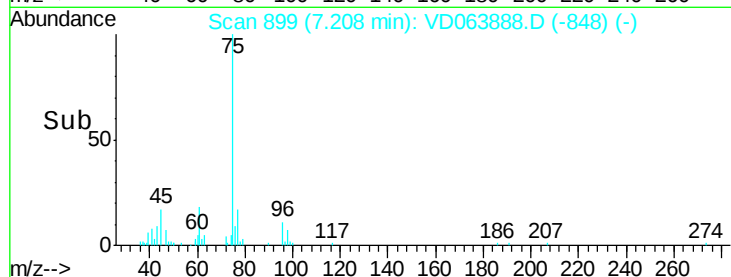
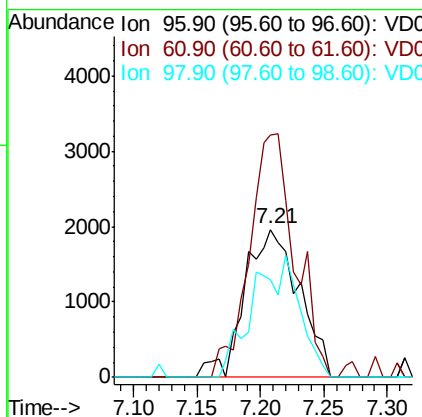
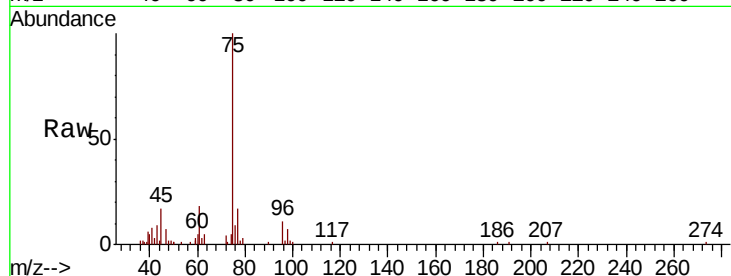
cis-1,2-Dichloroethene
Concen: 2.839 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	280.0
98	42.4	0.0	130.4

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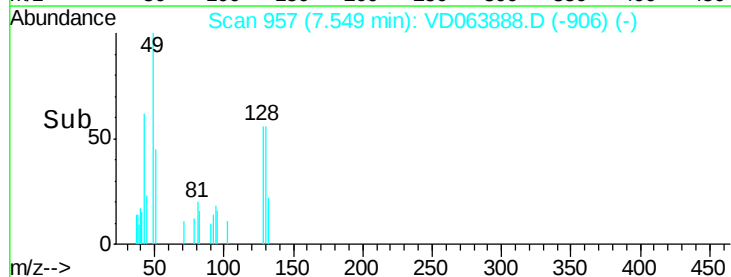
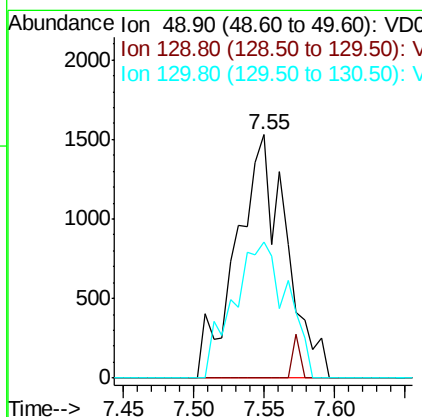
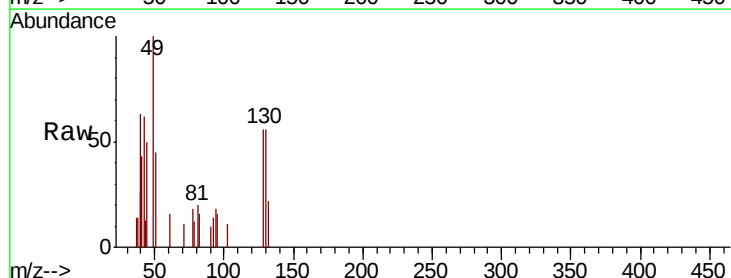
MMDadoda
10/8/2019 3:11:58 PM

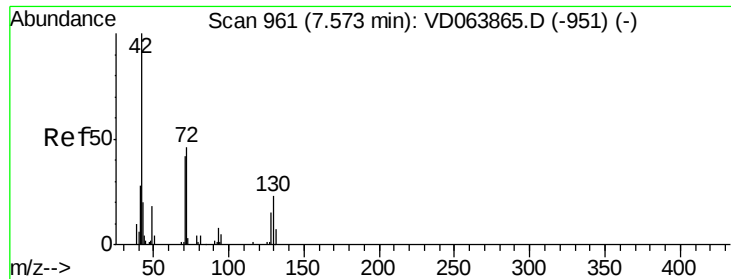


#28

Bromochloromethane
Concen: 3.244 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	61.0	66.8	100.2#





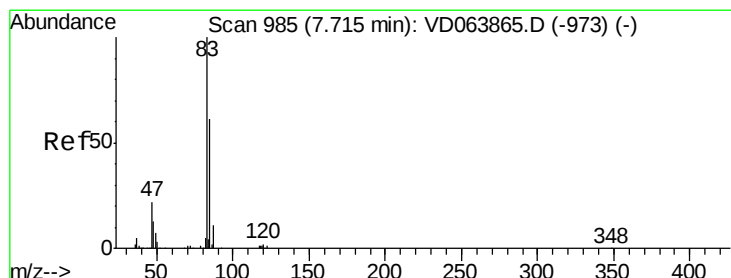
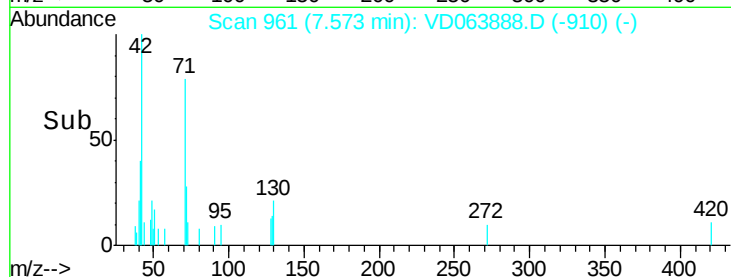
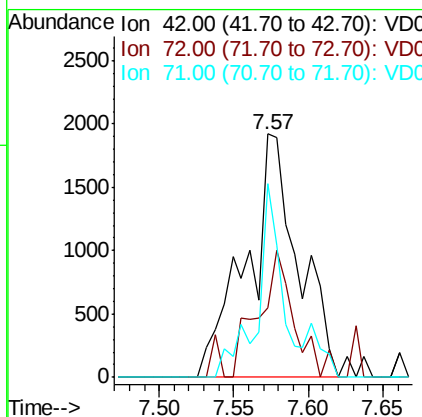
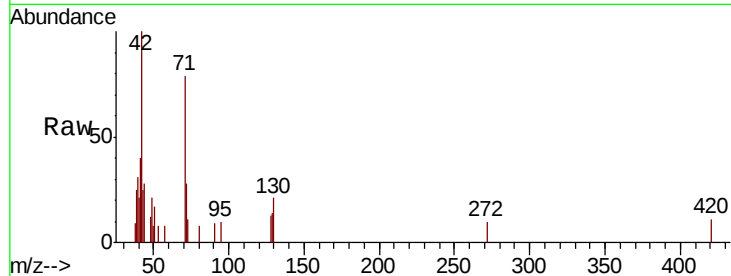
#29
Tetrahydrofuran
Concen: 14.962 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.8	37.6	56.4#
71	37.5	35.0	52.6

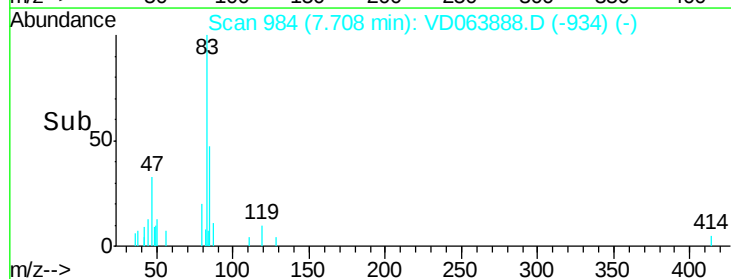
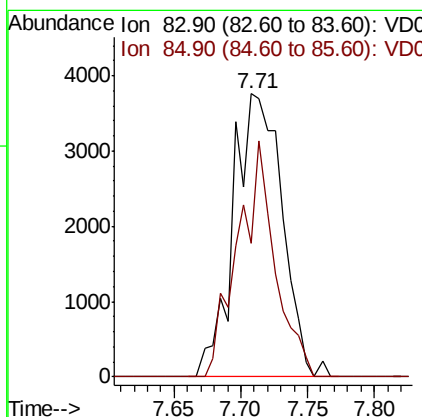
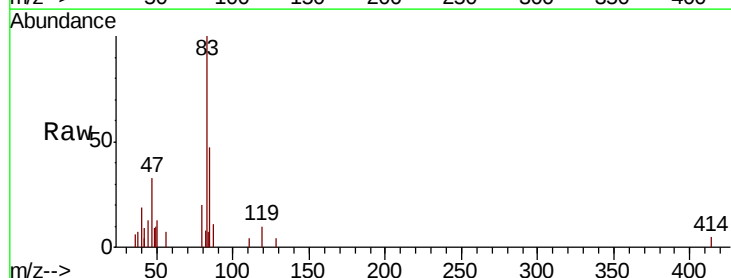
Manual Integrations
APPROVED

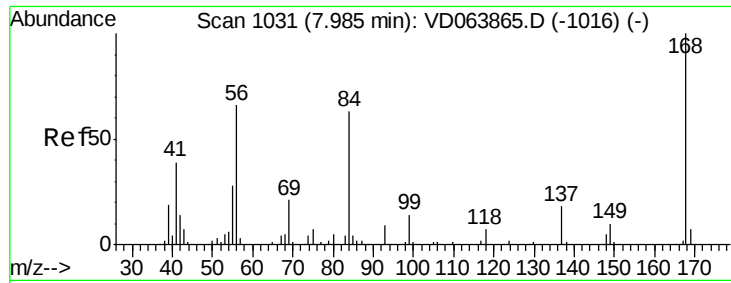
MMDadoda
10/8/2019 3:11:58 PM



#30
Chloroform
Concen: 2.851 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	44.1	48.9	73.3#





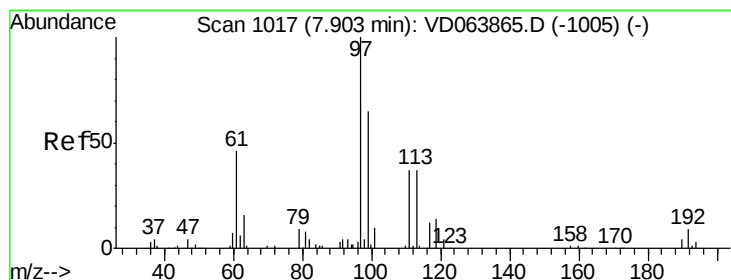
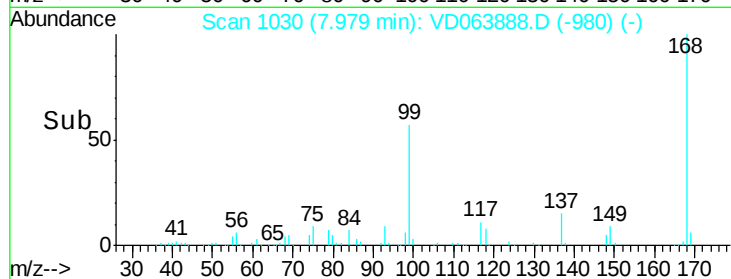
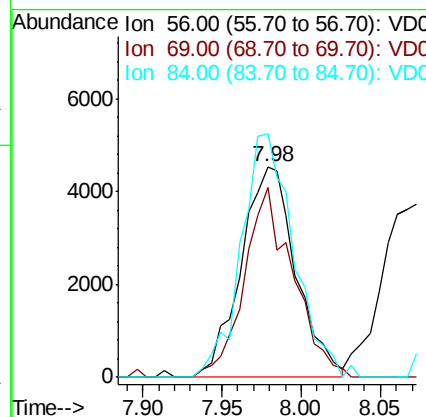
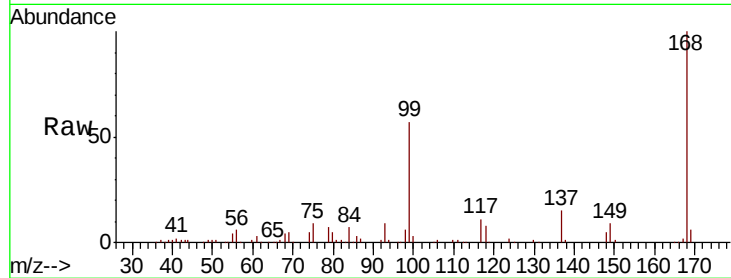
#31
Cyclohexane
Concen: 3.795 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	90.3	25.0	37.4#
84	115.5	76.3	114.5#

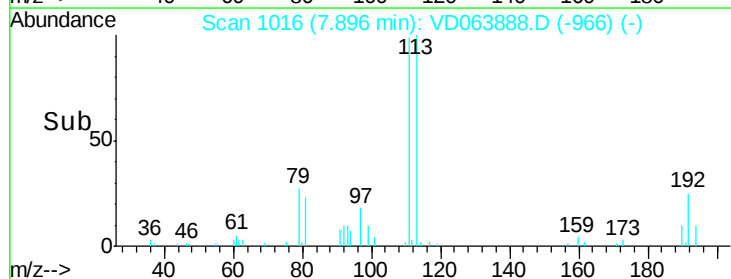
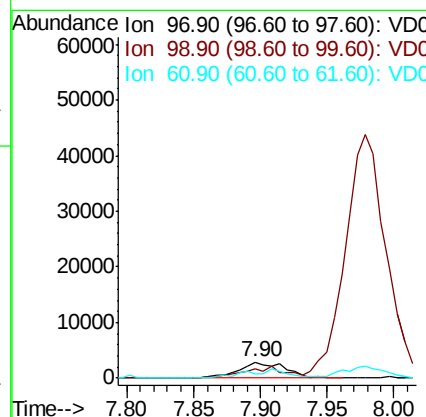
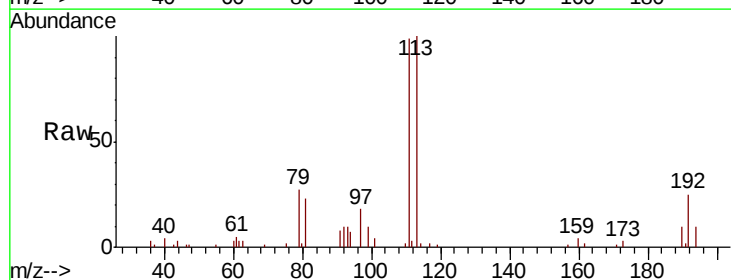
Manual Integrations
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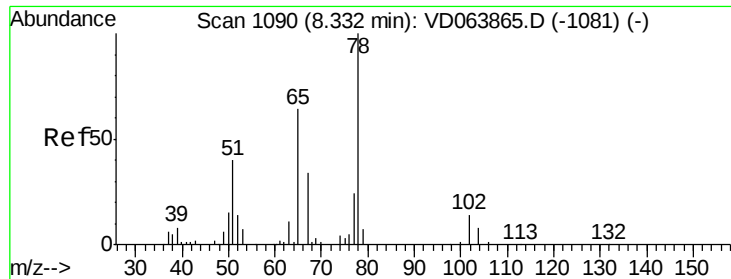
MMDadoda
10/8/2019 3:11:58 PM



#32
1,1,1-Trichloroethane
Concen: 2.415 ug/l
RT: 7.90 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.4	78.6#
61	22.1	33.8	50.8#





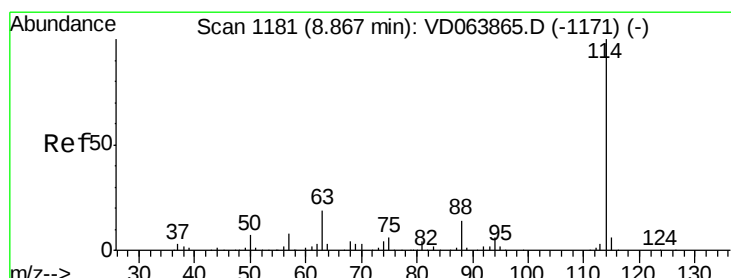
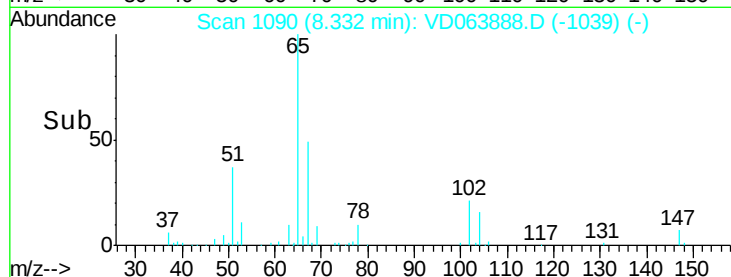
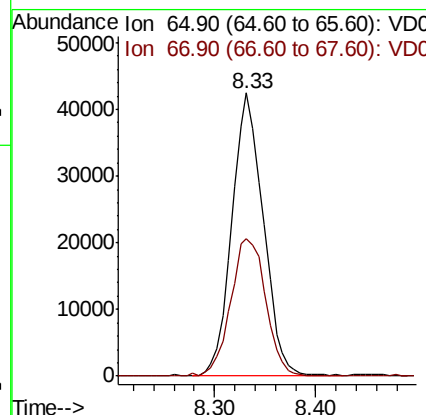
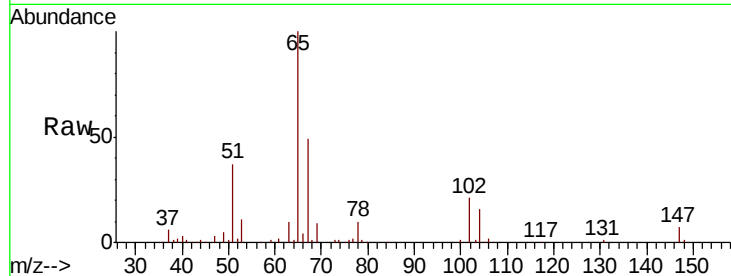
#33
 1,2-Dichloroethane-d4
 Concen: 53.476 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	106.4

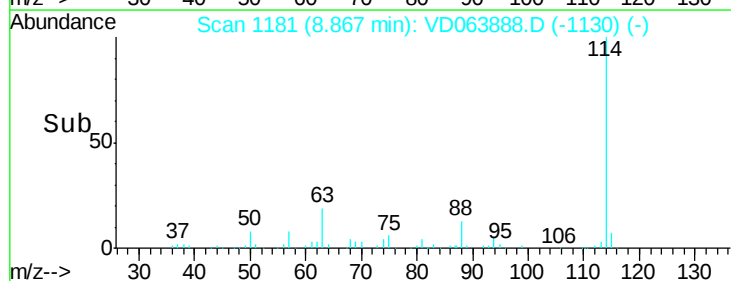
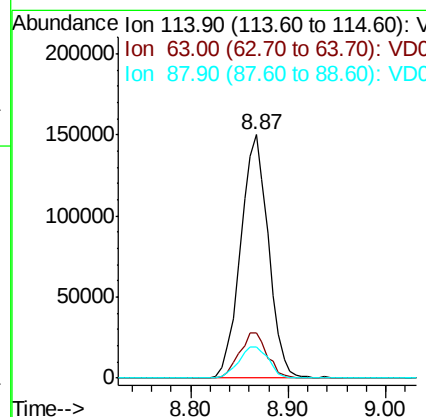
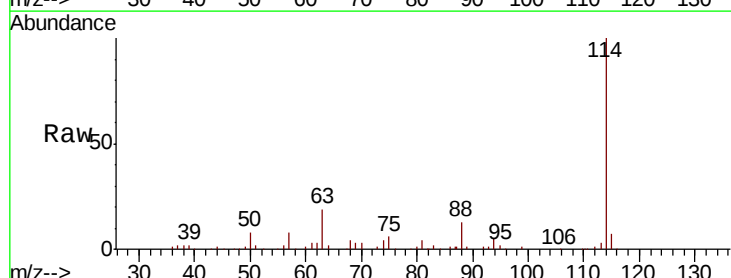
Manual Integrations
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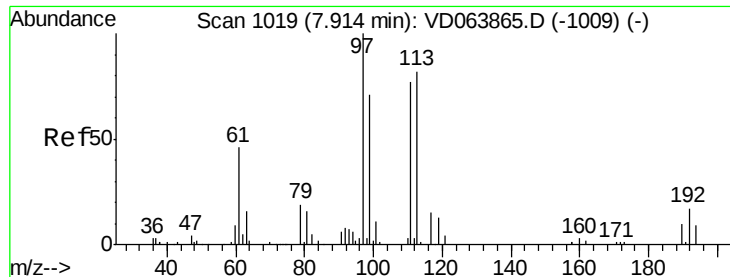
MMDadoda
 10/8/2019 3:11:58 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	12.7	0.0	27.4





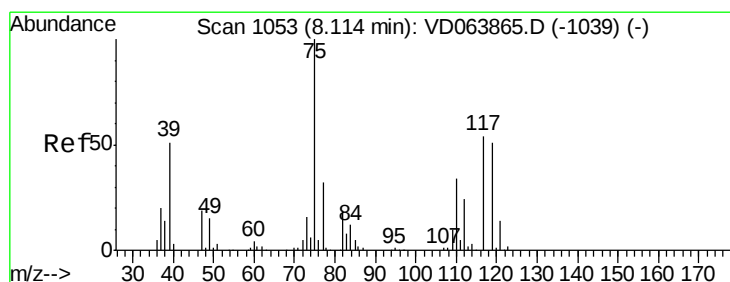
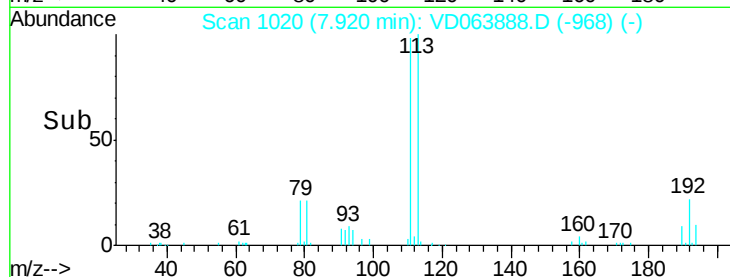
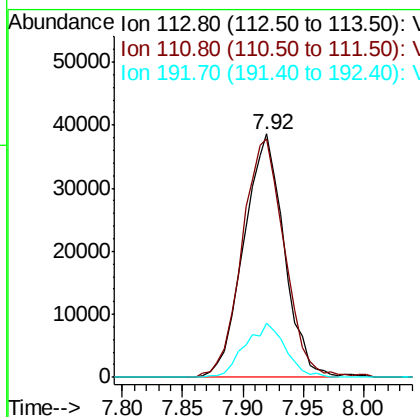
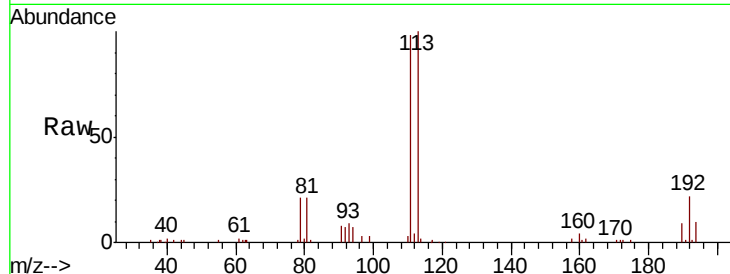
#35
Dibromofluoromethane
Concen: 49.517 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	123.8
192	22.3	17.1	25.7

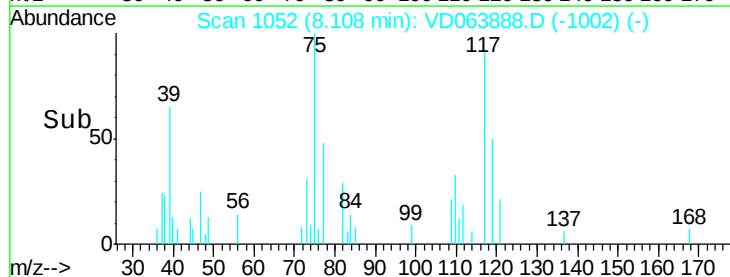
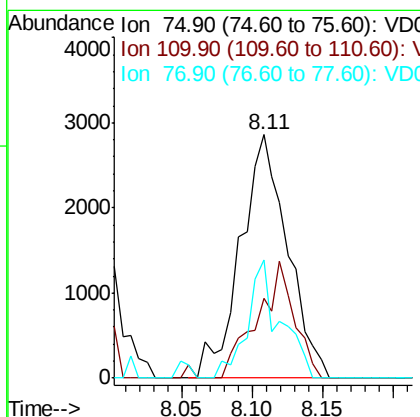
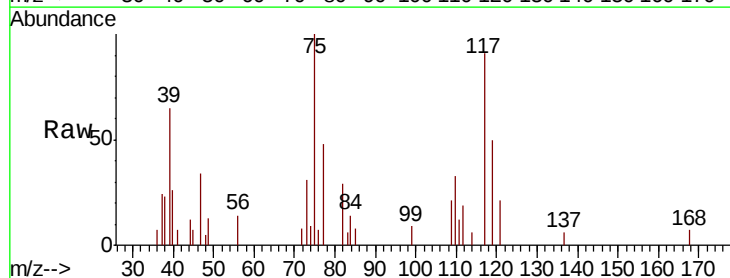
Manual Integrations
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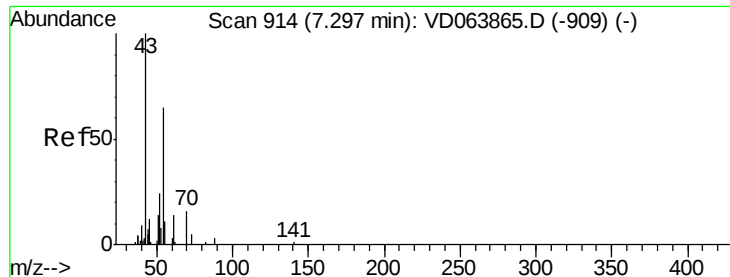
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#36
1,1-Dichloropropene
Concen: 2.445 ug/l
RT: 8.11 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.1	17.4	52.3
77	33.7	25.4	38.0





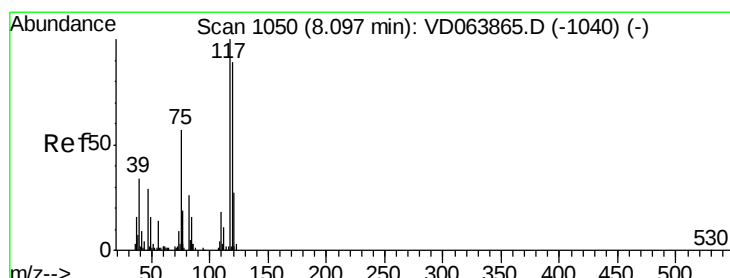
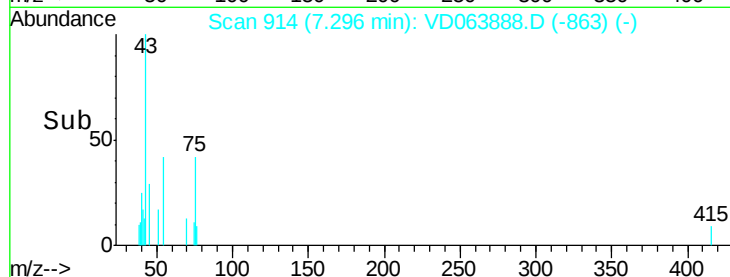
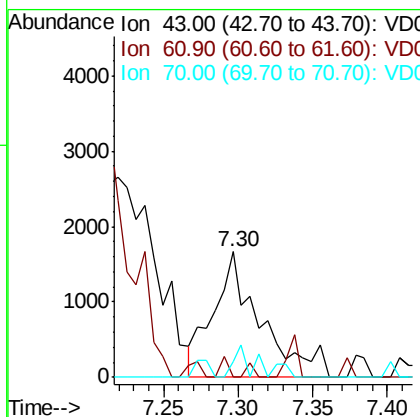
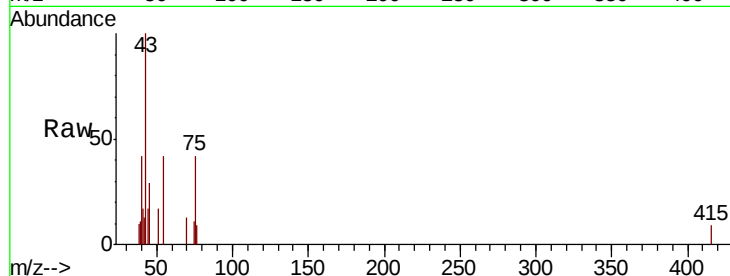
#37
Ethyl Acetate
Concen: 2.977 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	9.0	8.2	12.4

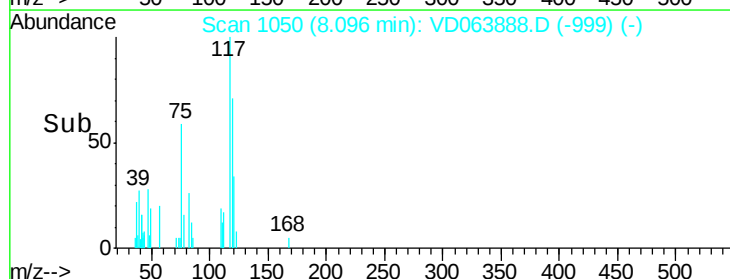
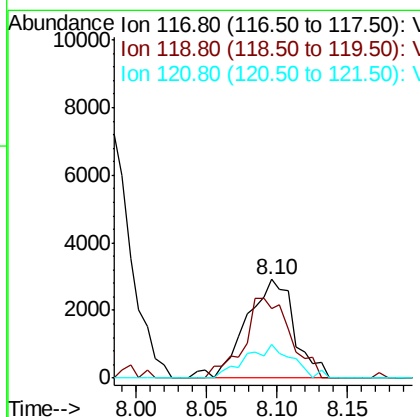
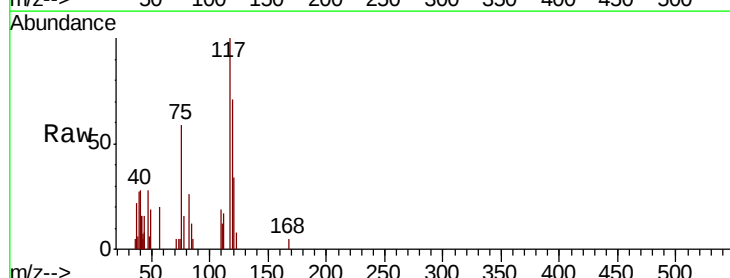
Manual Integrations
APPROVED

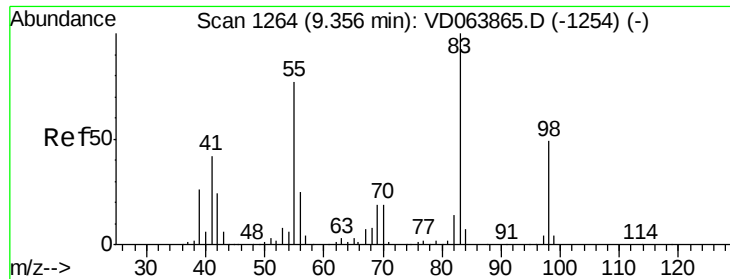
MMDadoda
10/8/2019 3:11:58 PM



#38
Carbon Tetrachloride
Concen: 2.538 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	70.6	70.8	106.2#
121	33.9	21.4	32.0#





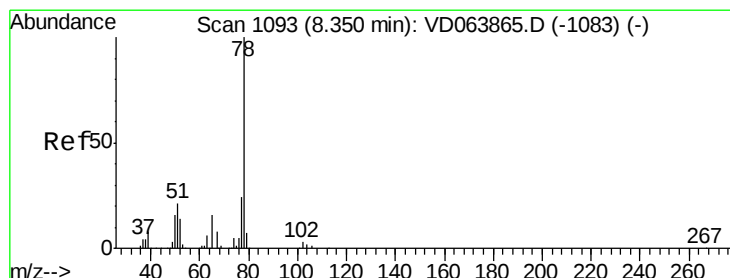
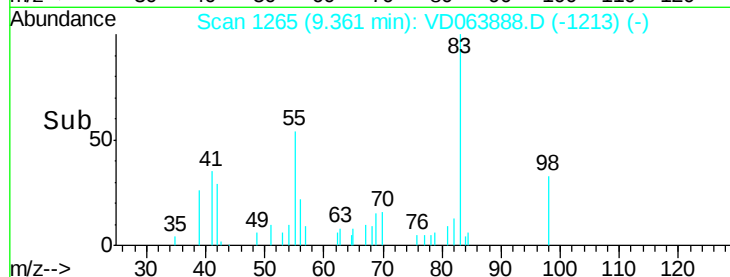
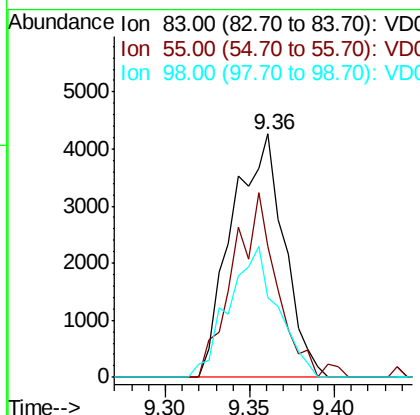
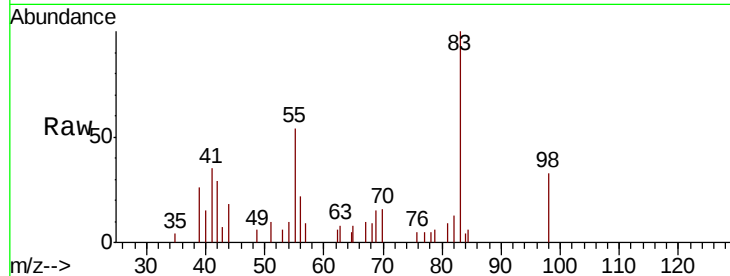
#39
Methvlcvclohexane
Concen: 2.742 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	54.0	61.3	91.9#
98	32.8	39.3	58.9#

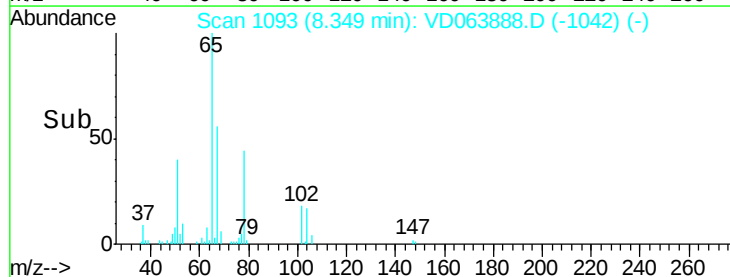
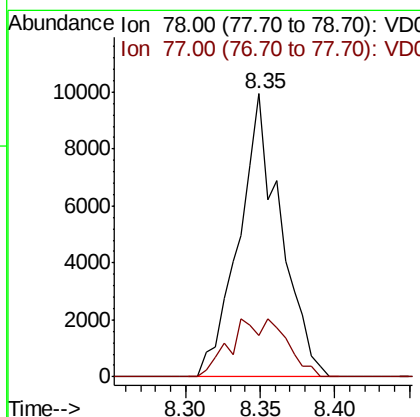
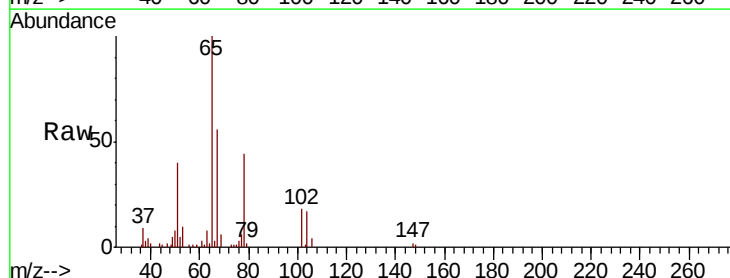
Manual Integrations
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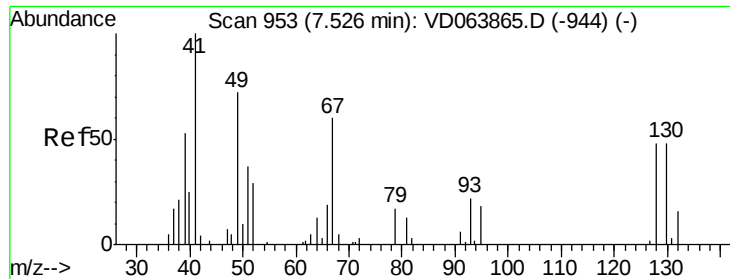
MMDadoda
10/8/2019 3:11:58 PM



#40
Benzene
Concen: 2.471 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	14.6	19.0	28.6#





#41

Methacrylonitrile

Concen: 3.384 ug/l m

RT: 7.54 min Scan# 956

Delta R.T. 0.02 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 41 Resp: 2132

Ion Ratio Lower Upper

41 100

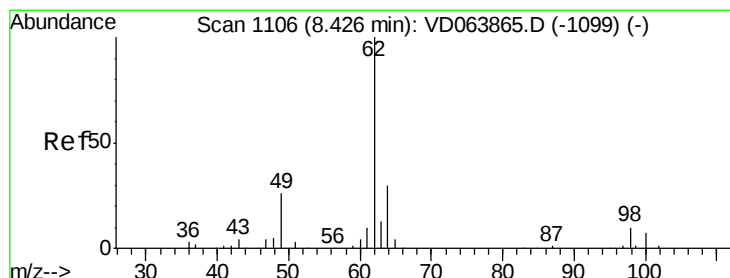
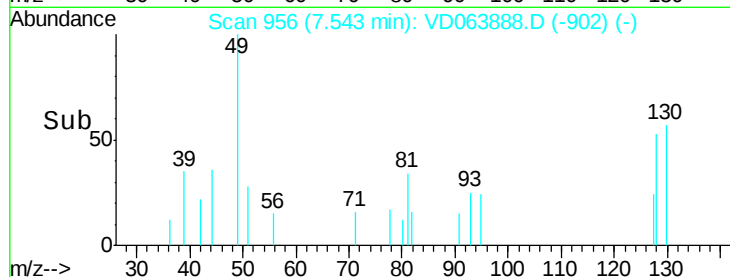
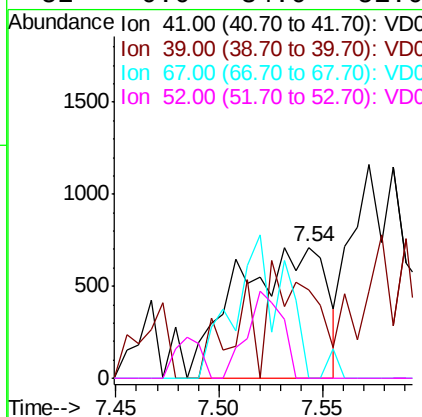
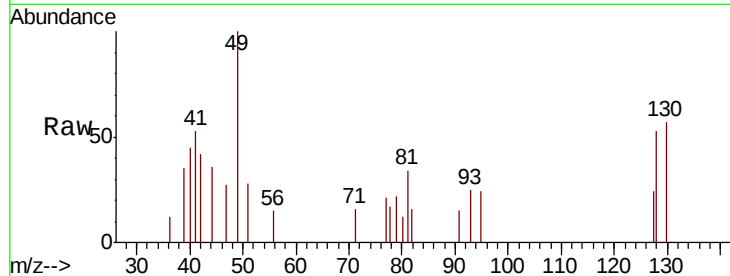
39 19.8 52.6 78.8#

67 0.0 74.2 111.2#

52 0.0 34.0 51.0#

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#42

1,2-Dichloroethane

Concen: 2.381 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD063888.D

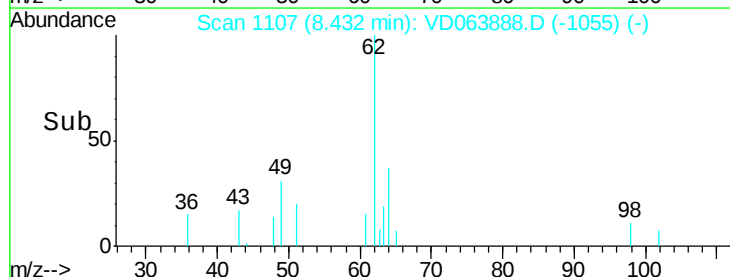
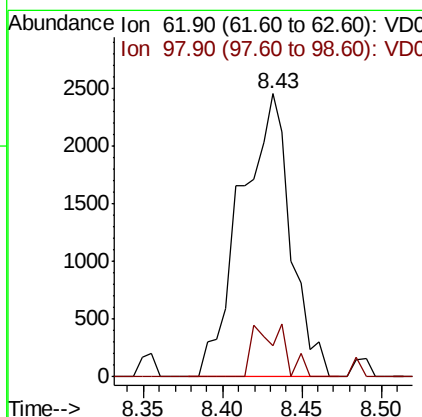
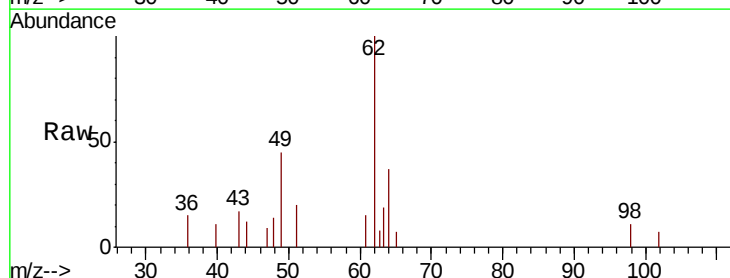
Acq: 04 Oct 2019 16:44

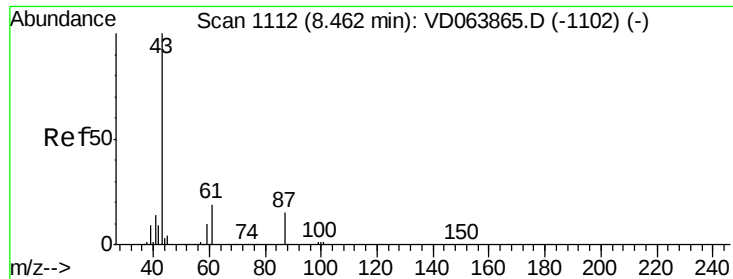
Tgt Ion: 62 Resp: 5364

Ion Ratio Lower Upper

62 100

98 11.3 0.0 20.0





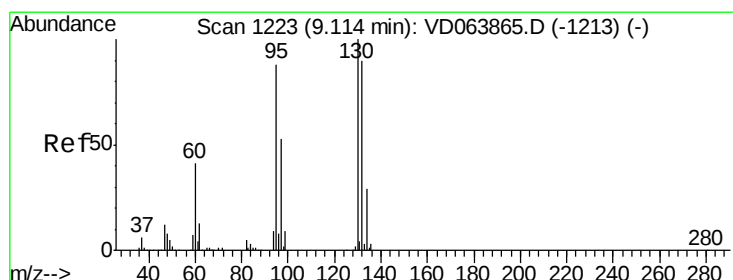
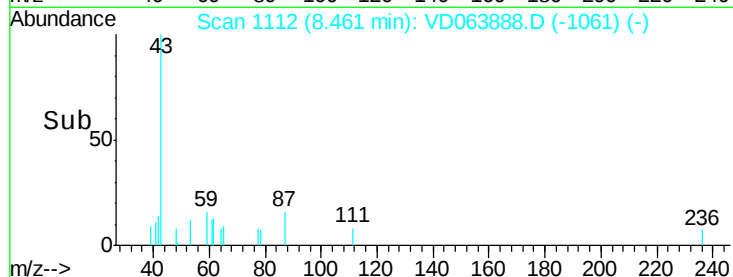
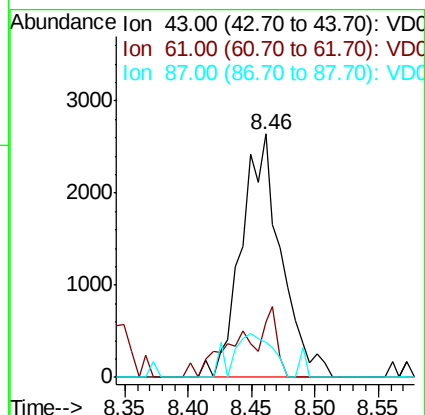
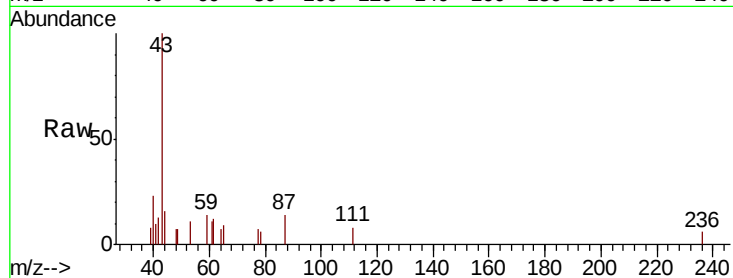
#43
Isopropyl Acetate
Concen: 2.525 ug/l
RT: 8.46 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	9.7	25.7	38.5#
87	0.0	11.6	17.4#

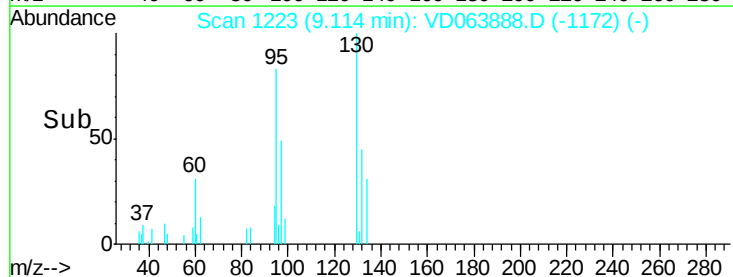
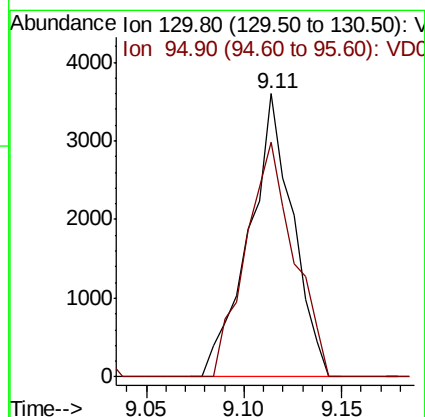
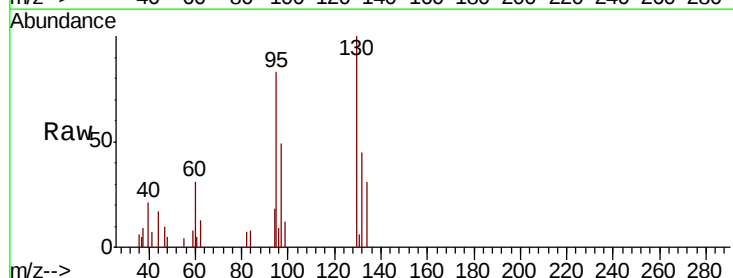
Manual Integrations
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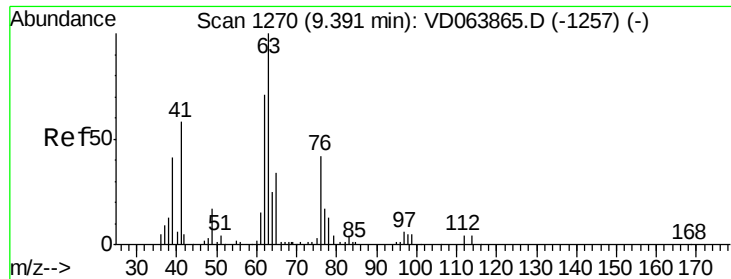
MMDadoda
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#44
Trichloroethene
Concen: 2.489 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	82.8	0.0	175.6





#45

1,2-Dichloropropane

Concen: 2.504 ug/l

RT: 9.40 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 63 Resp: 4774

Ion Ratio Lower Upper

63 100

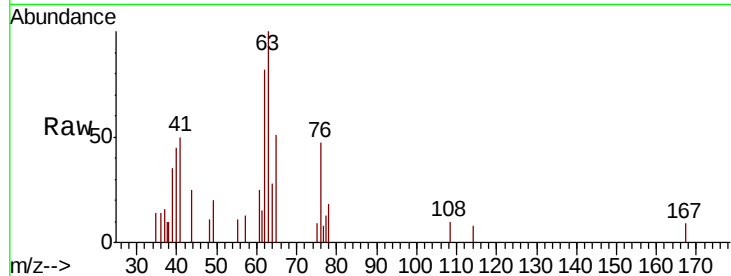
65 50.7 27.3 40.9#

Manual Integrations

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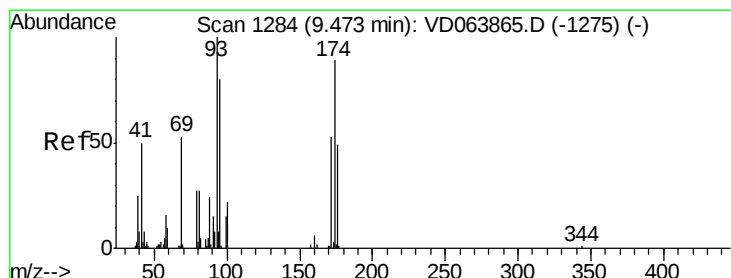
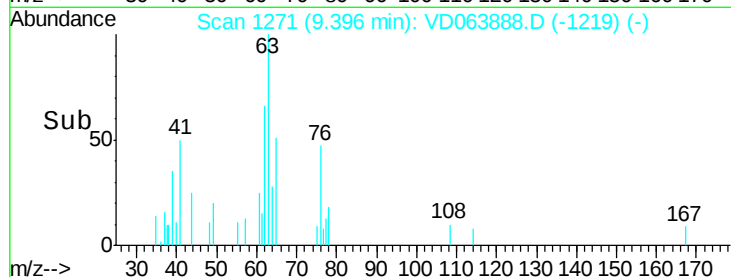
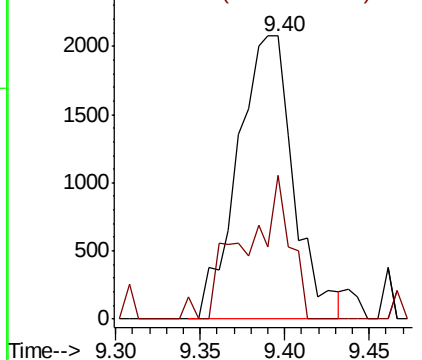
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Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 2.024 ug/l m

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

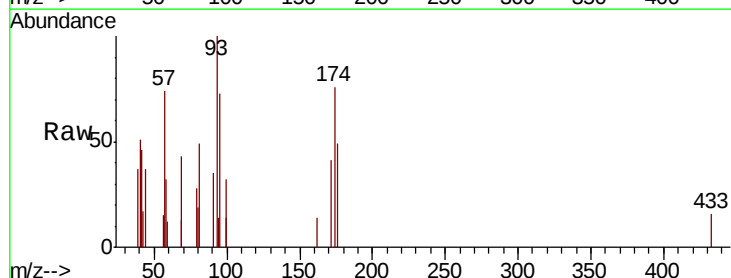
Tgt Ion: 93 Resp: 2197

Ion Ratio Lower Upper

93 100

95 113.8 66.0 99.0#

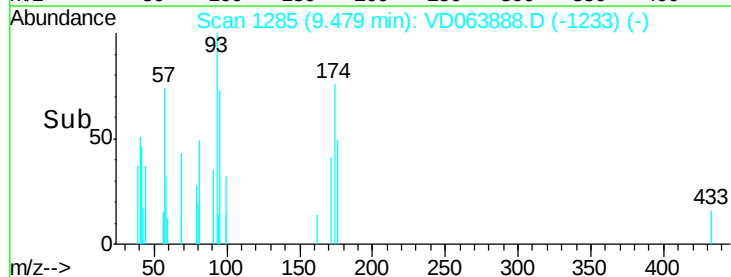
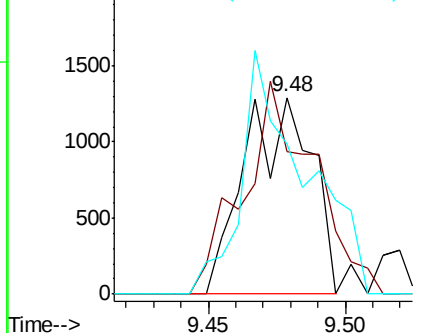
174 117.5 83.4 125.0

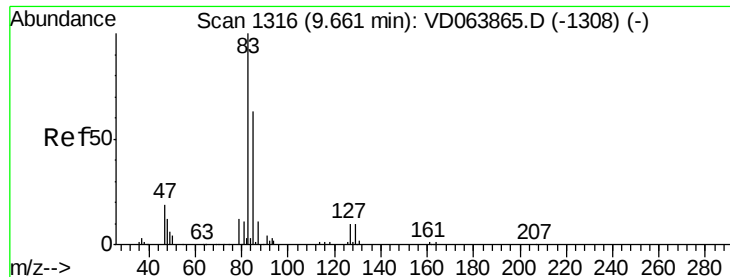


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 2.368 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

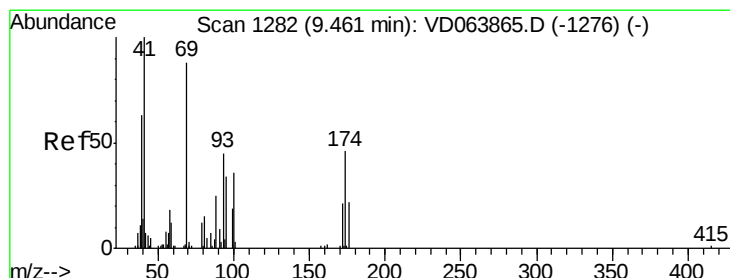
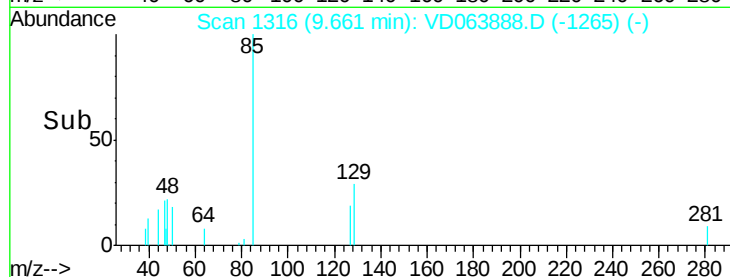
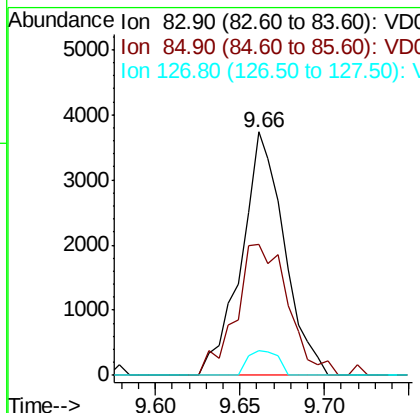
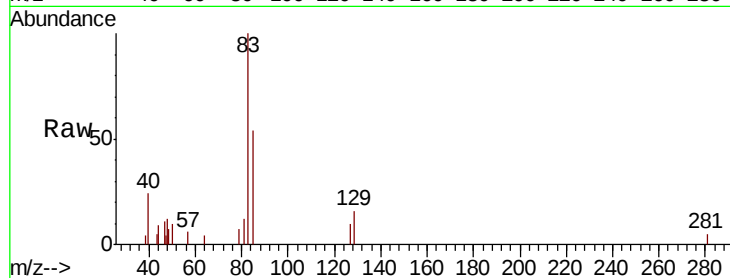
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	83	Resp:	6620
Ion	Ratio	Lower	Upper
83	100		
85	53.8	50.2	75.2
127	10.0	7.6	11.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 2.318 ug/l

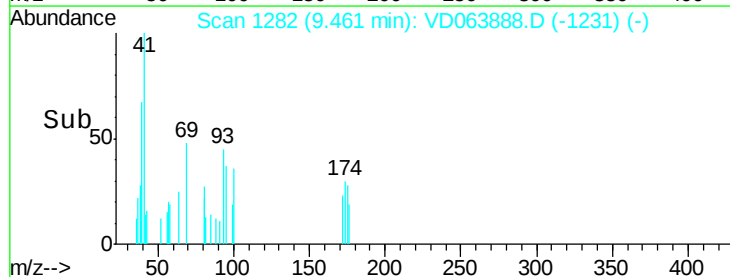
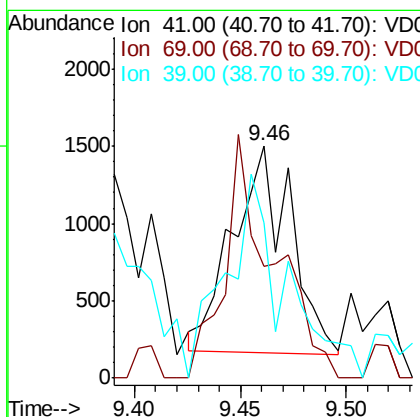
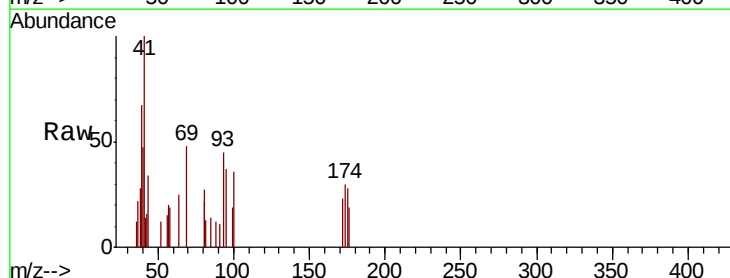
RT: 9.46 min Scan# 1282

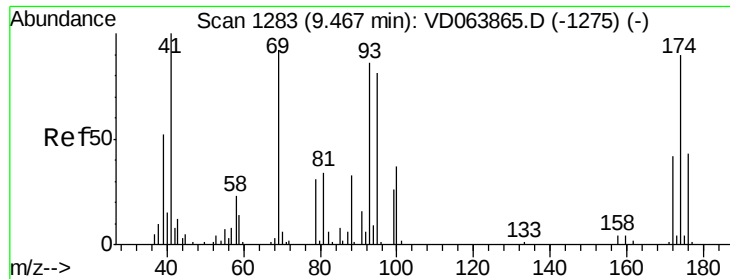
Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion:	41	Resp:	2531
Ion	Ratio	Lower	Upper
41	100		
69	97.3	75.1	112.7
39	101.1	50.2	75.2#





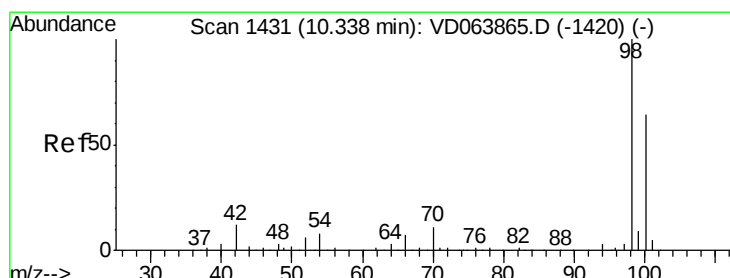
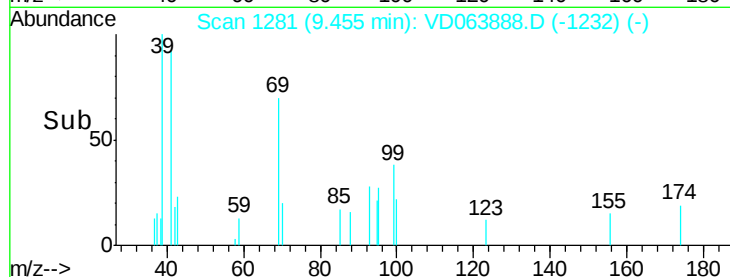
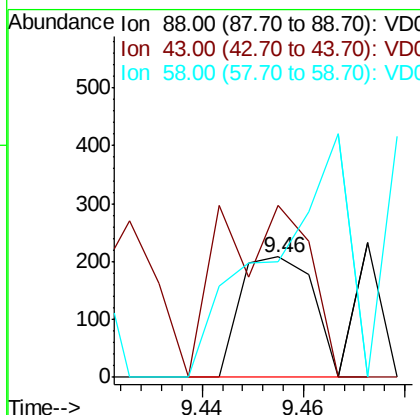
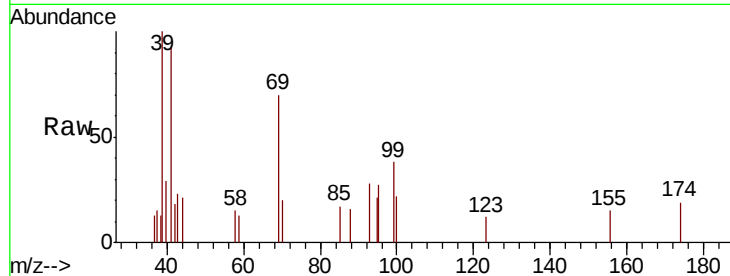
#49
1,4-Dioxane
Concen: 13.901 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 88 Resp: 206
Ion Ratio Lower Upper
88 100
43 171.4 27.6 41.4#
58 216.0 54.1 81.1#

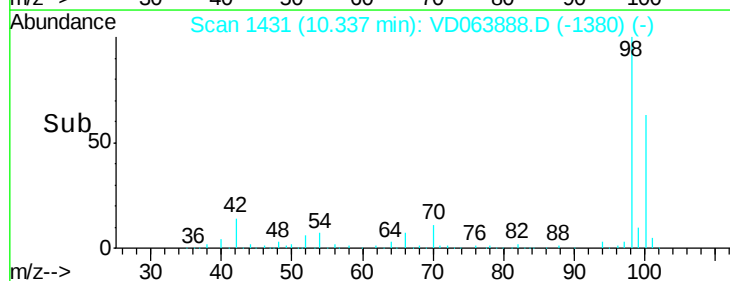
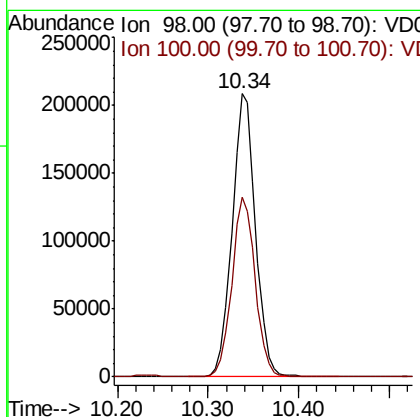
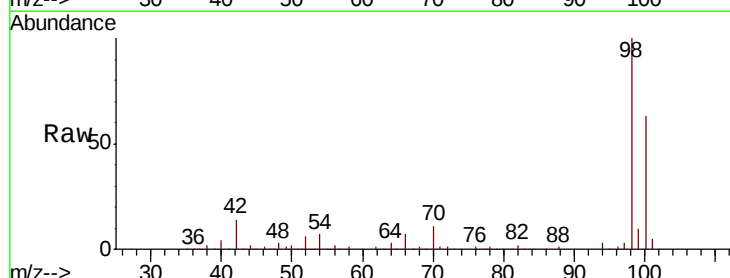
Manual Integrations
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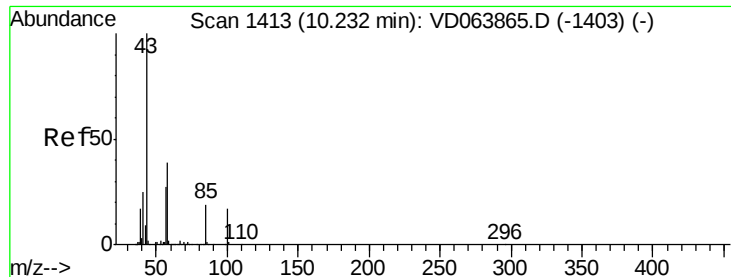
MMDadoda
10/8/2019 3:11:58 PM



#50
Toluene-d8
Concen: 50.697 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 98 Resp: 373792
Ion Ratio Lower Upper
98 100
100 63.4 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 12.264 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 14497

Ion Ratio Lower Upper

43 100

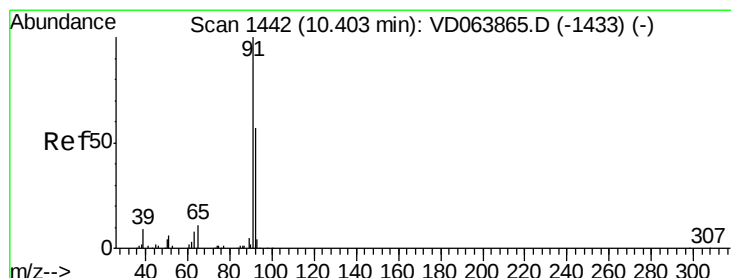
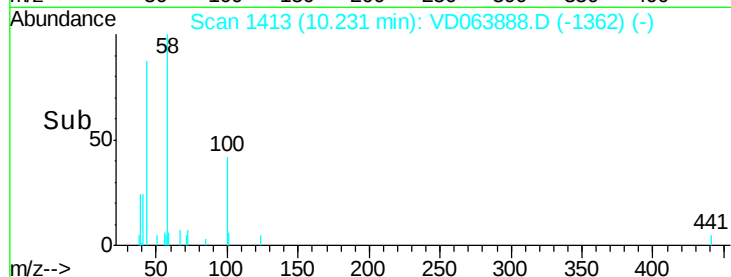
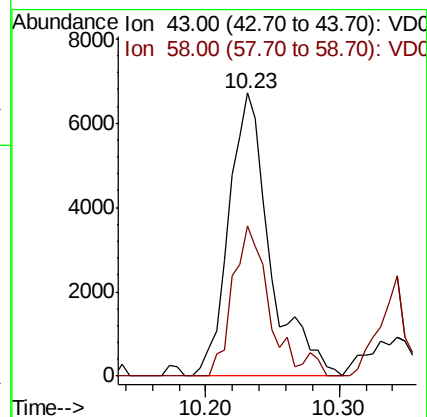
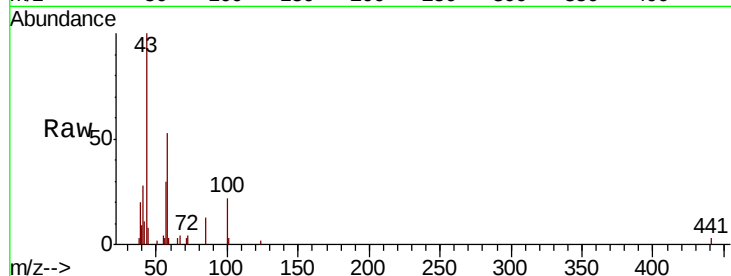
58 45.4 33.0 49.4

Manual Integrations

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#52

Toluene

Concen: 2.311 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD063888.D

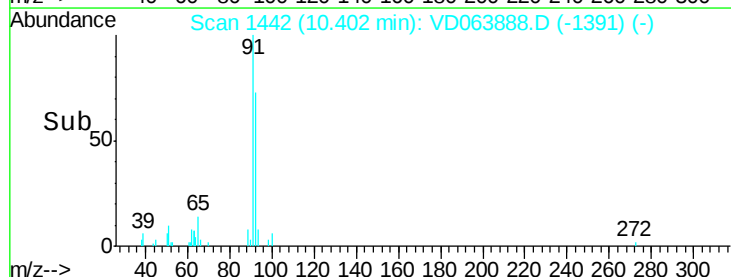
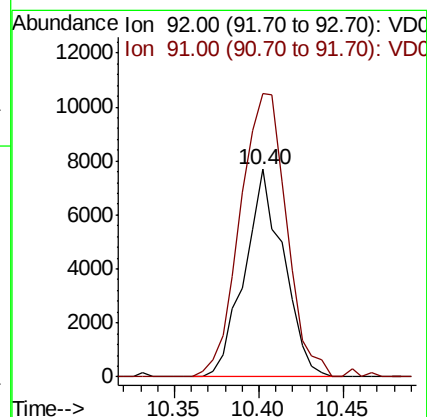
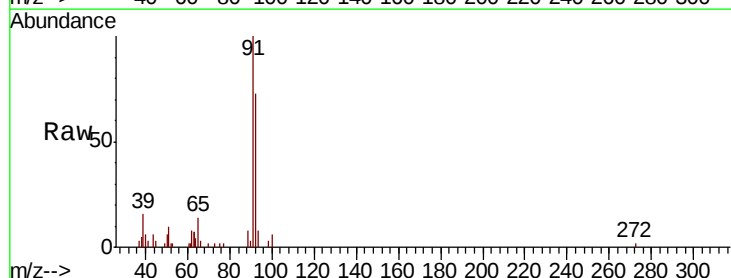
Acq: 04 Oct 2019 16:44

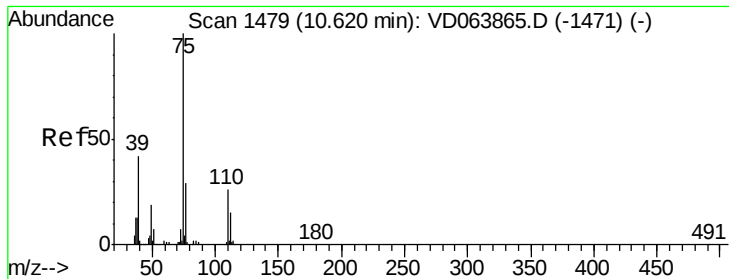
Tgt Ion: 92 Resp: 12356

Ion Ratio Lower Upper

92 100

91 162.7 139.5 209.3





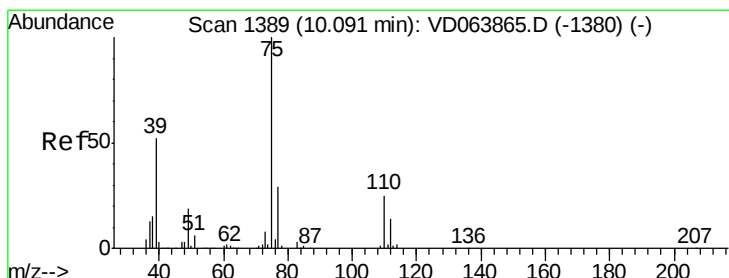
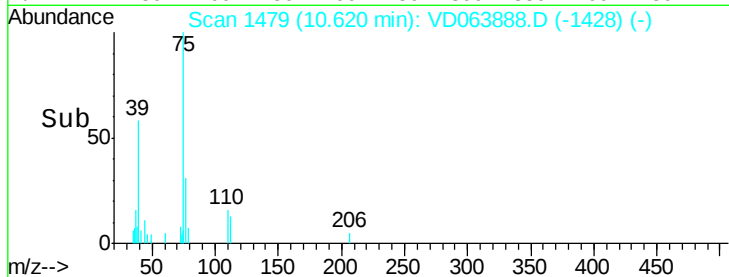
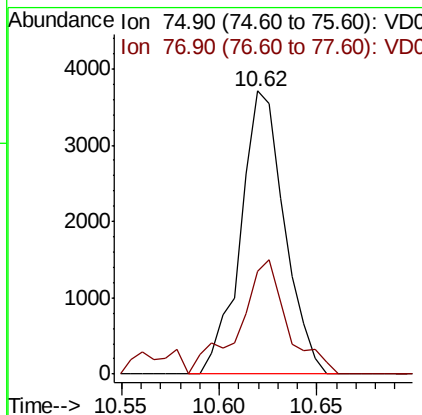
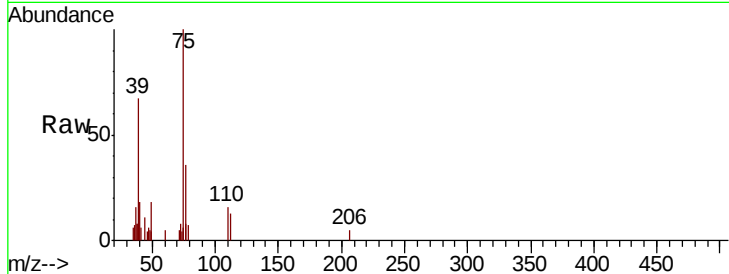
#53
t-1,3-Dichloropropene
Concen: 2.121 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 75 Resp: 5786
Ion Ratio Lower Upper
75 100
77 36.2 22.8 34.2#

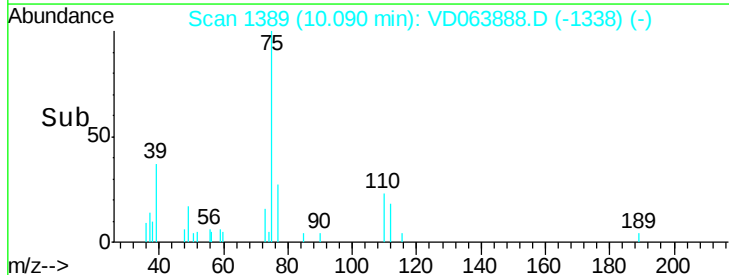
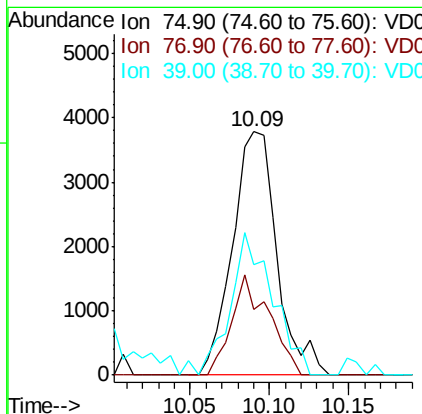
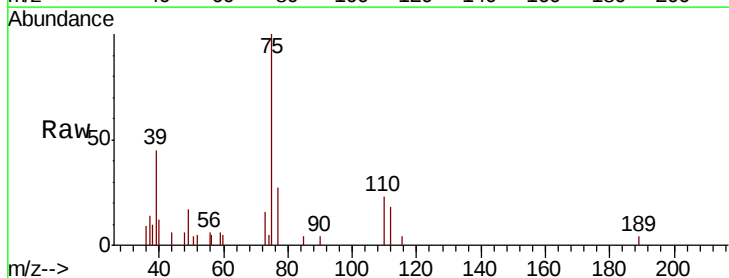
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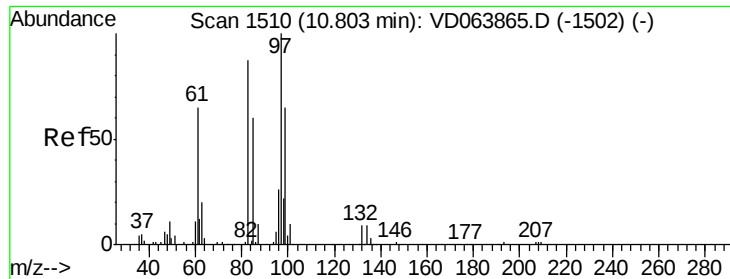
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 2.343 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 75 Resp: 7357
Ion Ratio Lower Upper
75 100
77 27.1 23.2 34.8
39 45.4 41.5 62.3





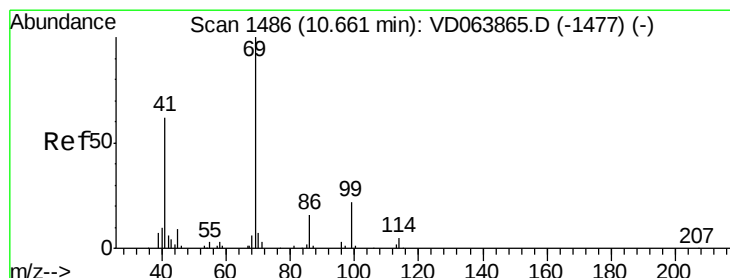
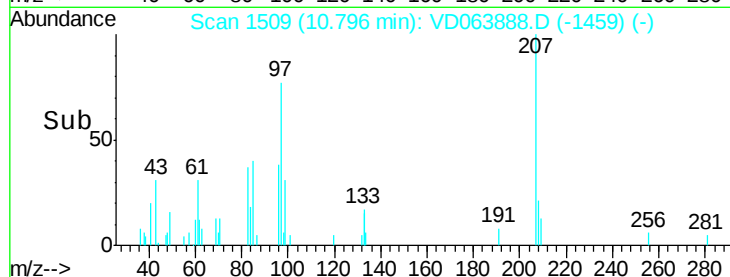
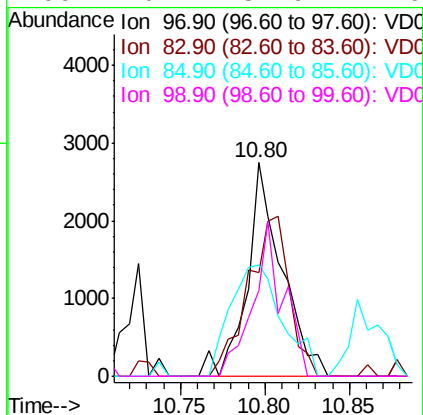
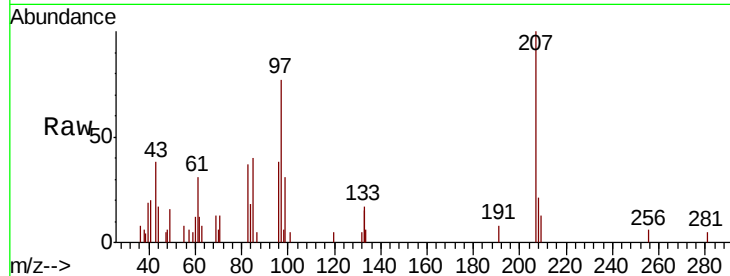
#55
 1,1,2-Trichloroethane
 Concen: 2.568 ug/l
 RT: 10.80 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
97	100		
83	48.4	69.7	104.5#
85	52.2	48.1	72.1
99	40.2	51.9	77.9#

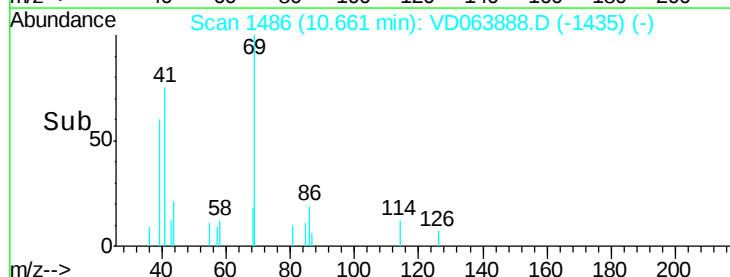
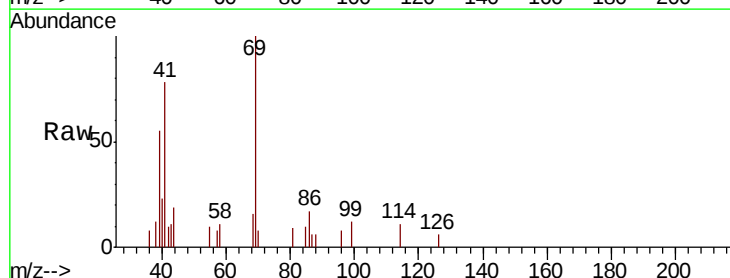
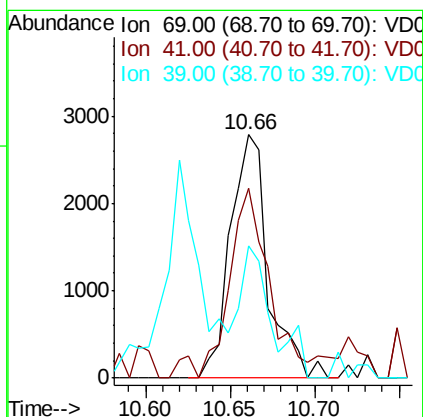
Manual Integrations
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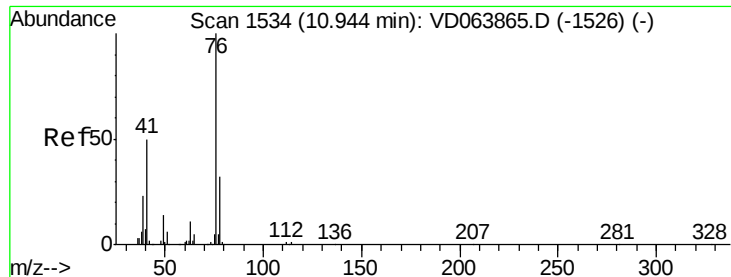
MMDadoda
 10/8/2019 3:11:58 PM



#56
 Ethyl methacrylate
 Concen: 2.229 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
69	100		
41	80.7	51.3	76.9#
39	46.6	28.0	42.0#





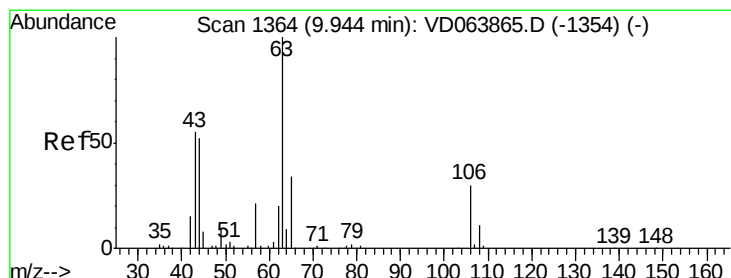
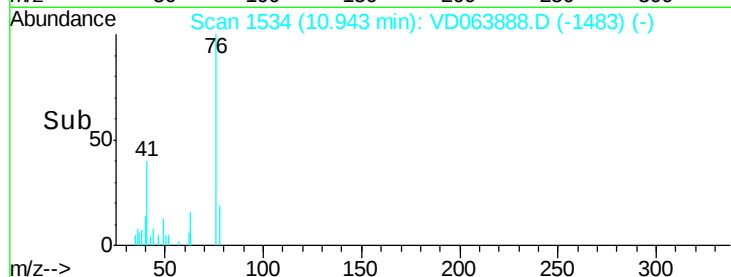
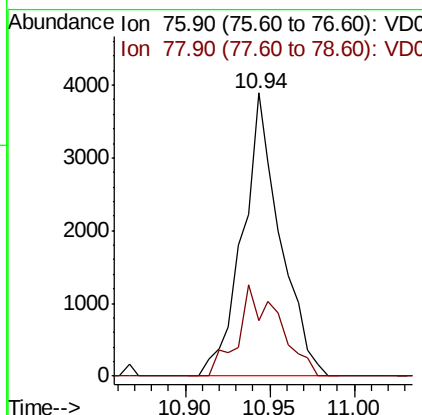
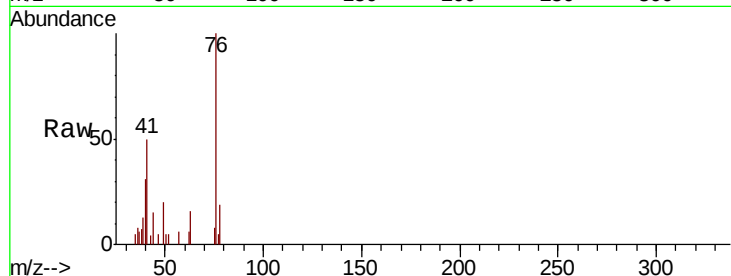
#57
 1,3-Dichloropropane
 Concen: 2.295 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.1	26.6	40.0

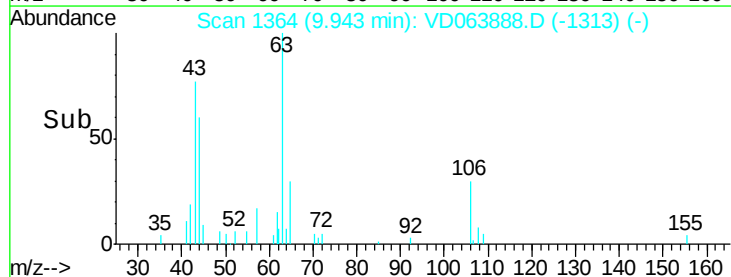
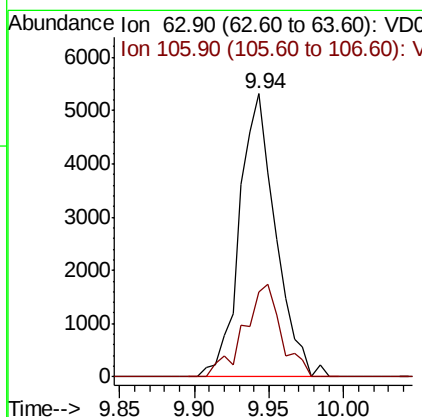
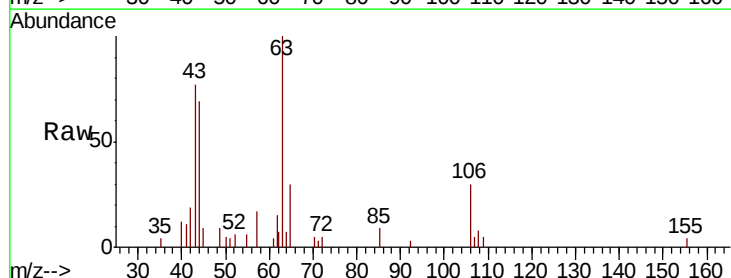
Manual Integrations
 APPROVED

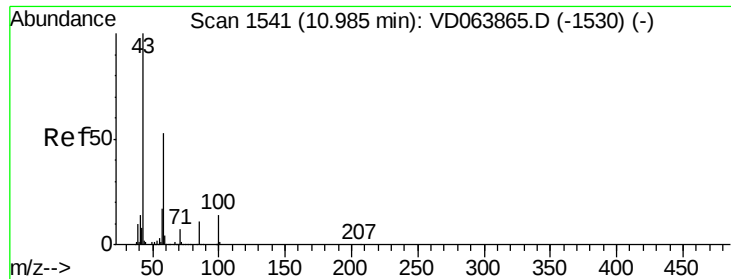
MMDadoda
 10/8/2019 3:11:58 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.683 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
63	100		
106	33.5	24.3	36.5





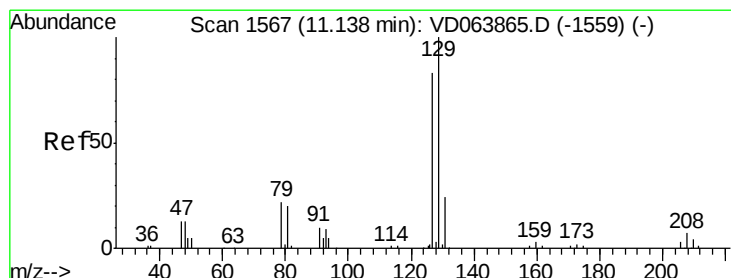
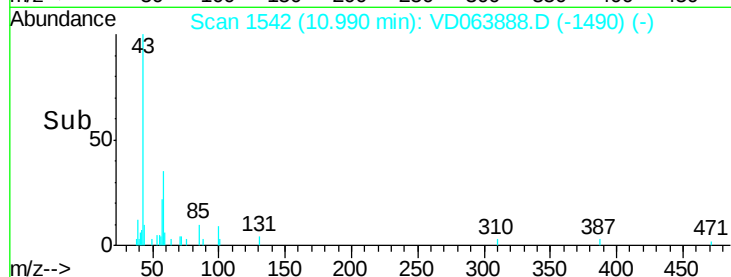
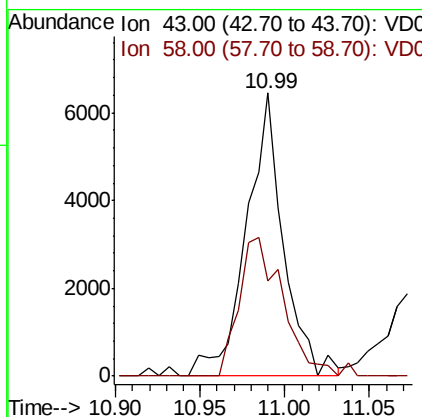
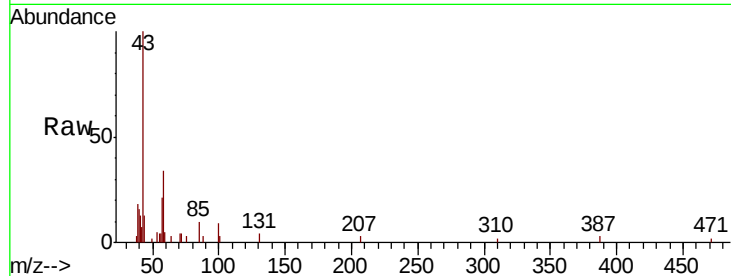
#59
2-Hexanone
Concen: 11.494 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 9828
Ion Ratio Lower Upper
43 100
58 57.5 27.7 83.0

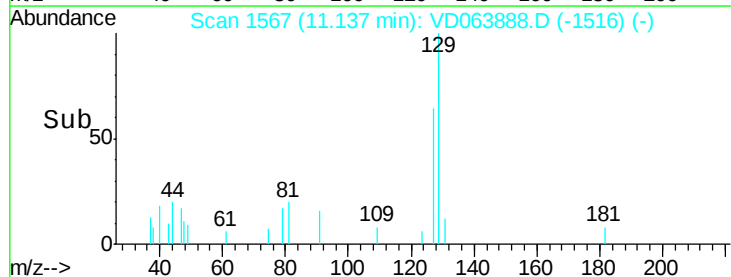
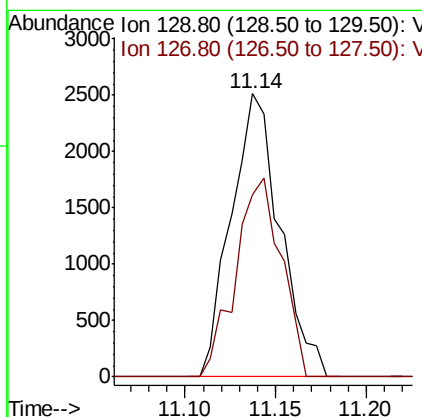
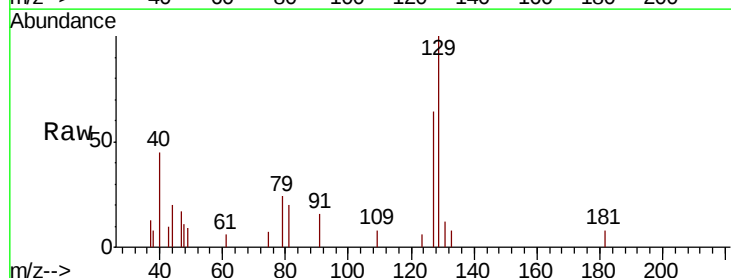
Manual Integrations
APPROVED

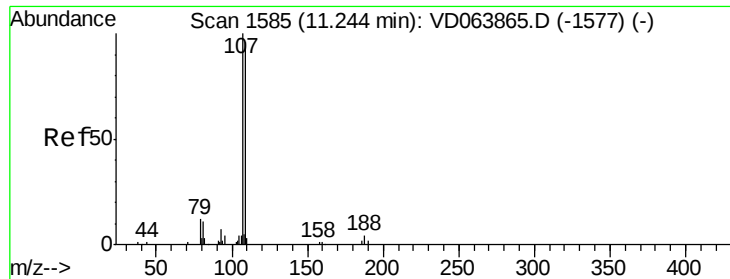
MMDadoda
10/8/2019 3:11:58 PM



#60
Dibromochloromethane
Concen: 2.354 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 129 Resp: 4698
Ion Ratio Lower Upper
129 100
127 66.0 39.9 119.6





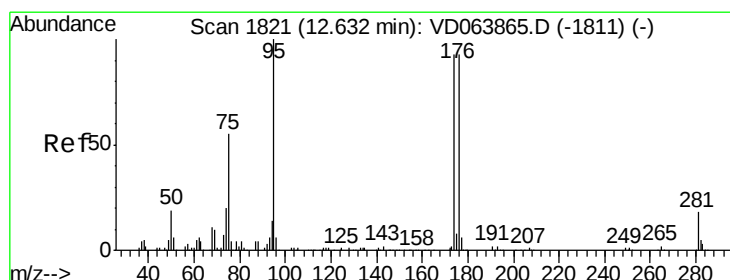
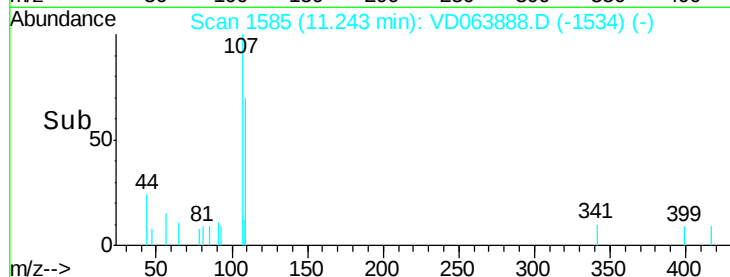
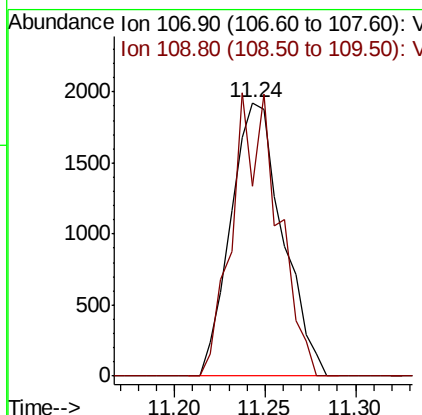
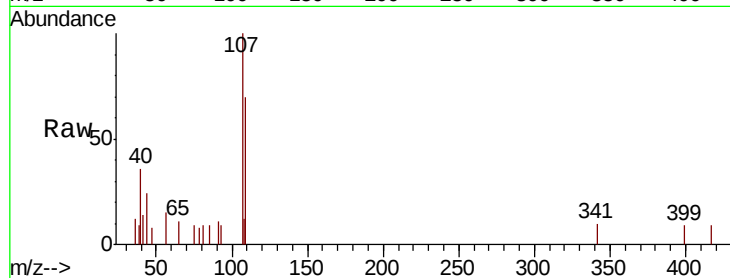
#61
 1,2-Dibromoethane
 Concen: 2.567 ug/l
 RT: 11.24 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.0	75.2	112.8

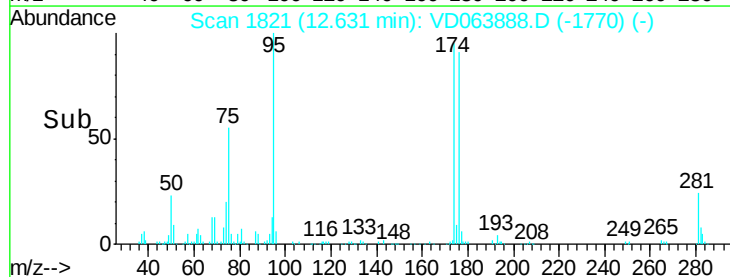
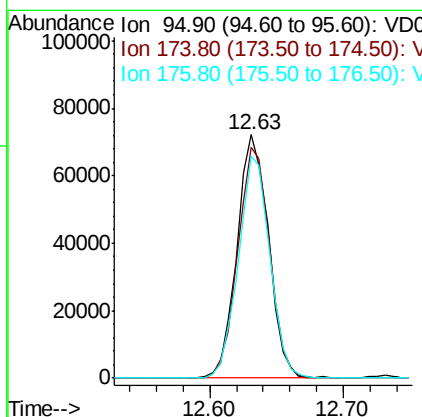
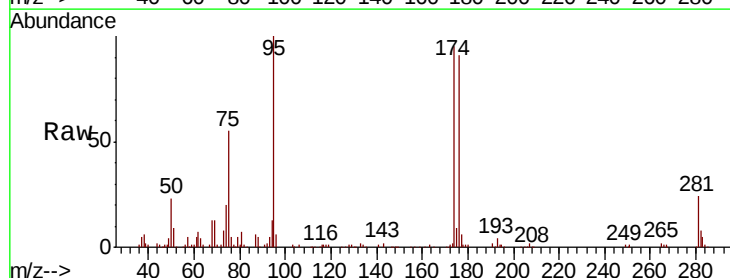
Manual Integrations
 APPROVED

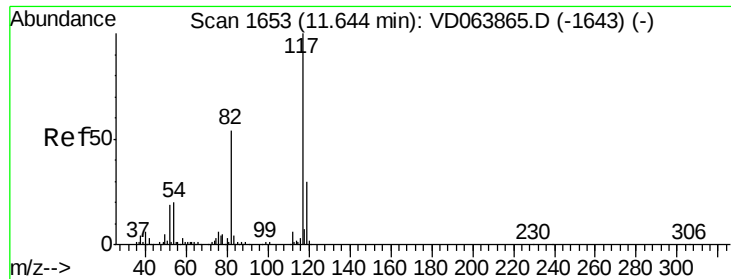
MMDadoda
 10/8/2019 3:11:58 PM



#62
 4-Bromofluorobenzene
 Concen: 45.813 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.0	0.0	186.4
176	91.4	0.0	184.2





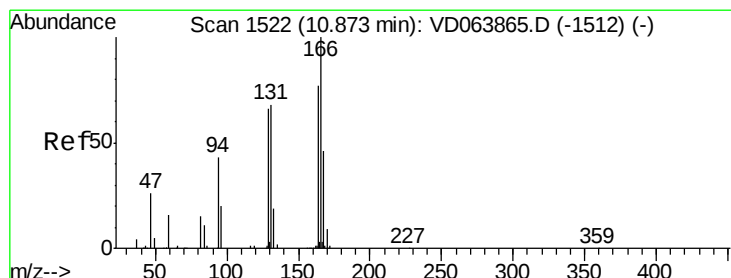
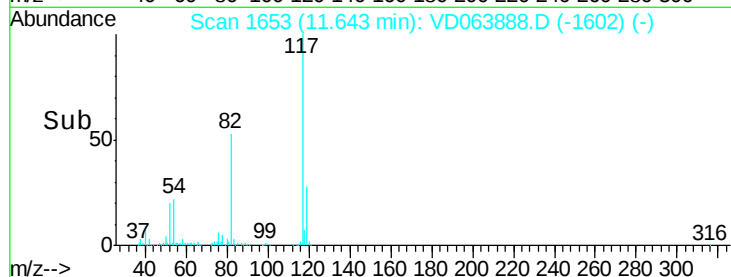
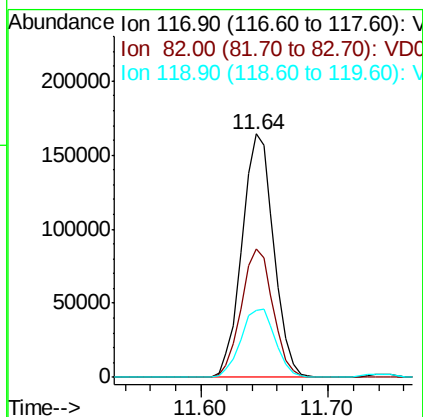
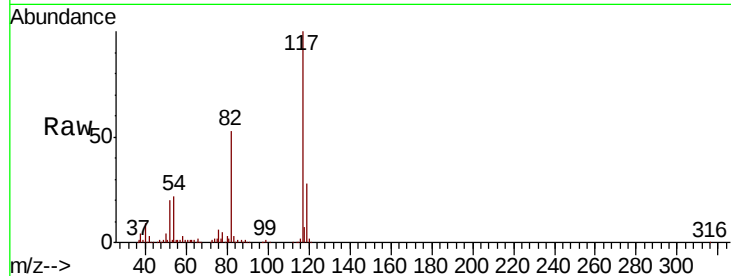
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.8	64.2
119	27.7	24.4	36.6

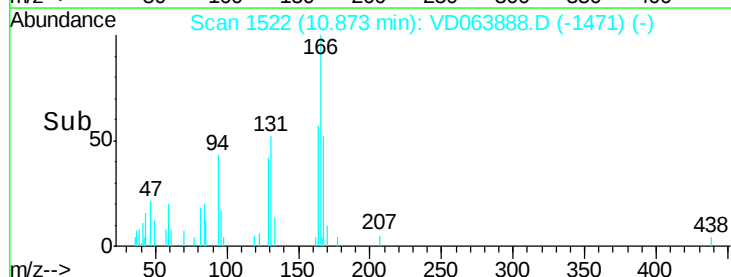
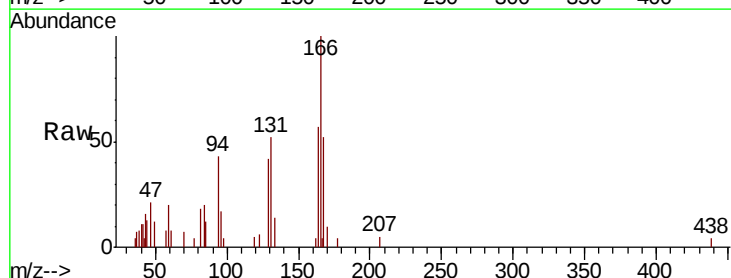
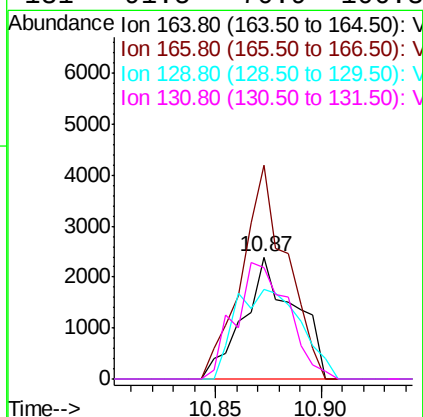
Manual Integrations
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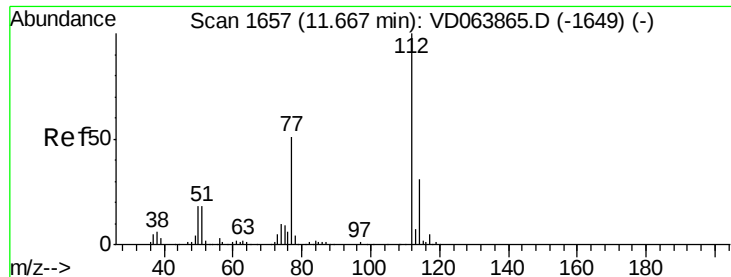
MMDadoda
10/8/2019 3:11:58 PM



#64
Tetrachloroethene
Concen: 2.069 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	175.6	103.8	155.6#
129	73.4	68.9	103.3
131	91.5	70.9	106.3





#65

Chlorobenzene

Concen: 2.409 ug/l

RT: 11.67 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:112 Resp: 13810

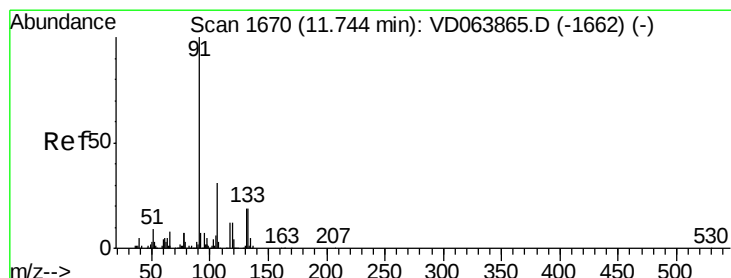
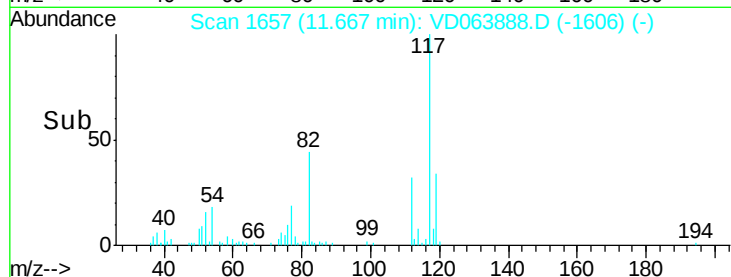
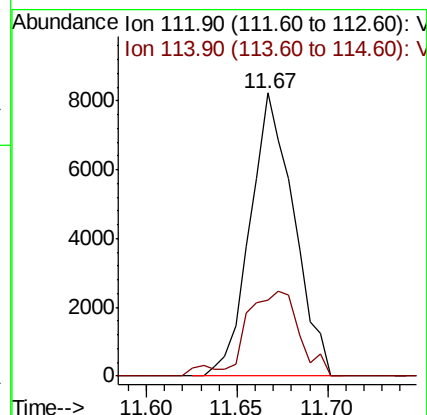
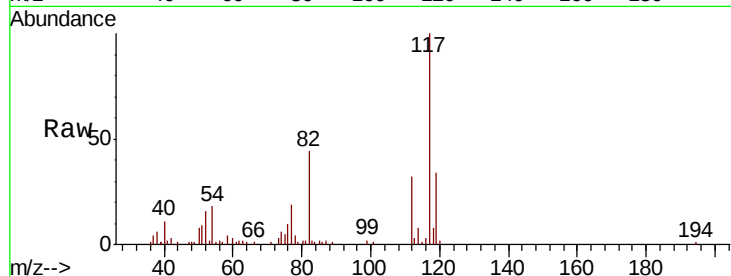
Ion Ratio Lower Upper

112 100

114 26.8 25.1 37.7

Manual Integrations
APPROVED

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10/8/2019 3:11:58 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 2.204 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

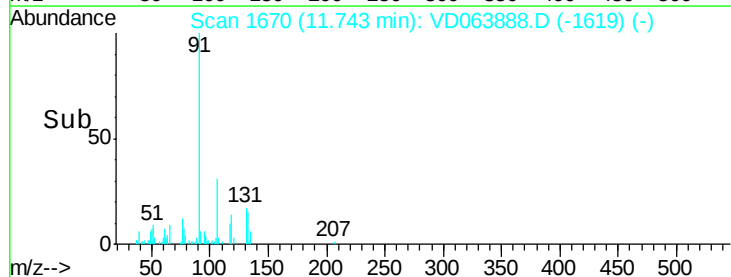
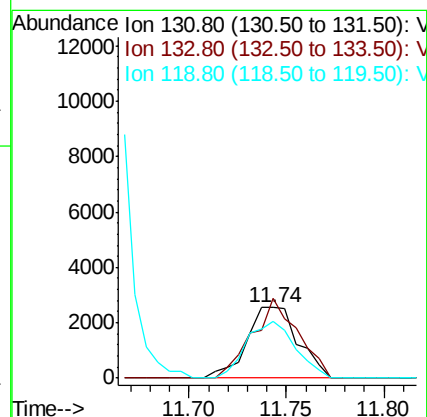
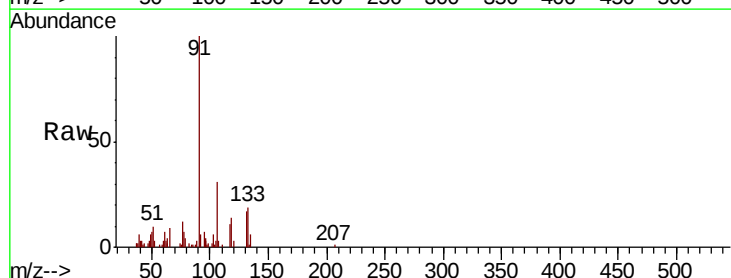
Tgt Ion:131 Resp: 4656

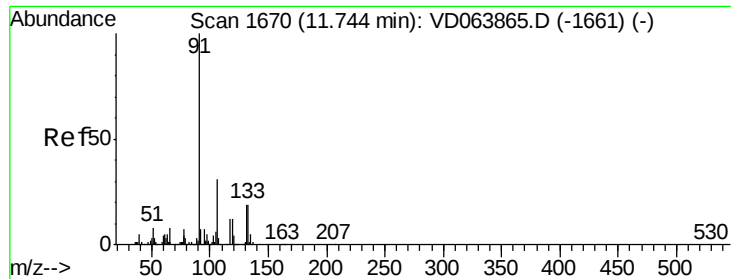
Ion Ratio Lower Upper

131 100

133 99.8 48.9 146.7

119 76.3 32.6 97.8





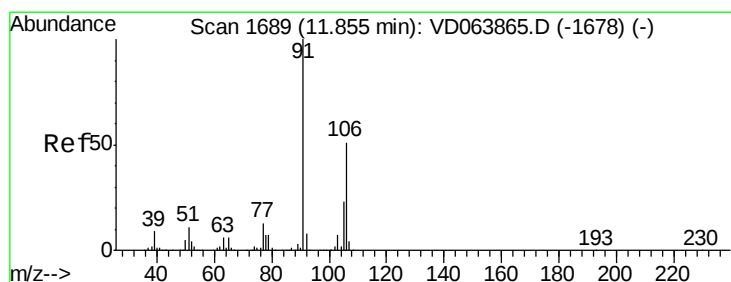
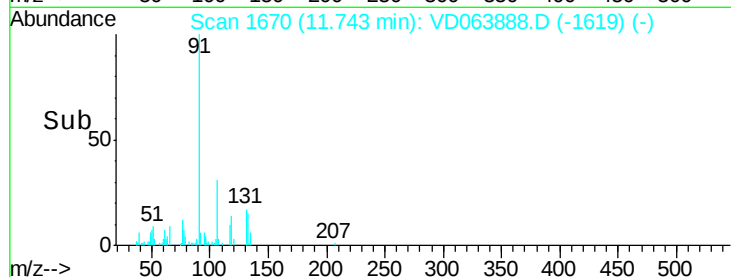
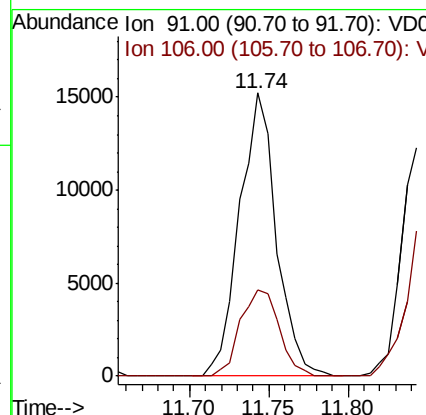
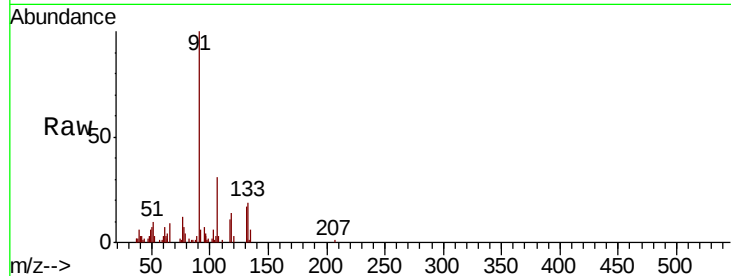
#67
Ethyl Benzene
Concen: 2.363 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 24430
Ion Ratio Lower Upper
91 100
106 30.6 24.6 37.0

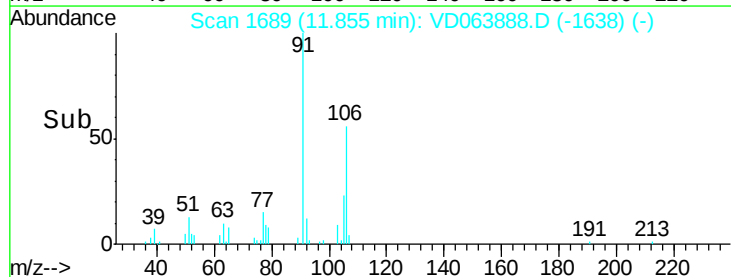
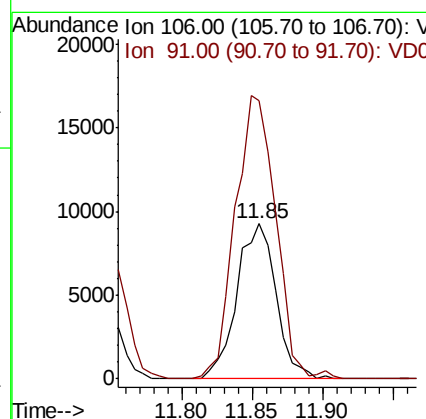
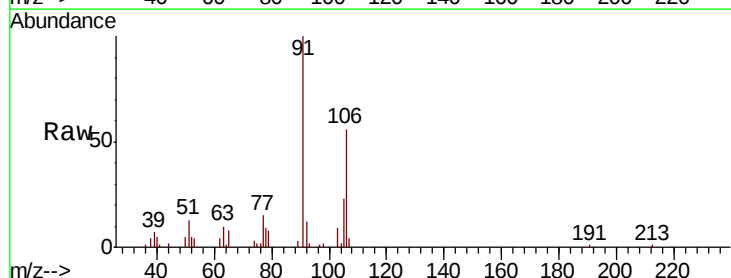
Manual Integrations
APPROVED

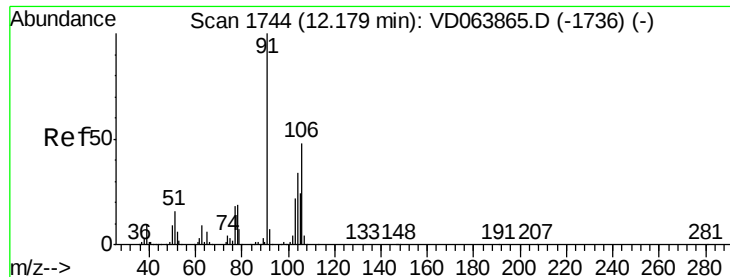
MMDadoda
10/8/2019 3:11:58 PM



#68
m/p-Xylenes
Concen: 4.497 ug/l
RT: 11.85 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 106 Resp: 17947
Ion Ratio Lower Upper
106 100
91 187.9 154.8 232.2





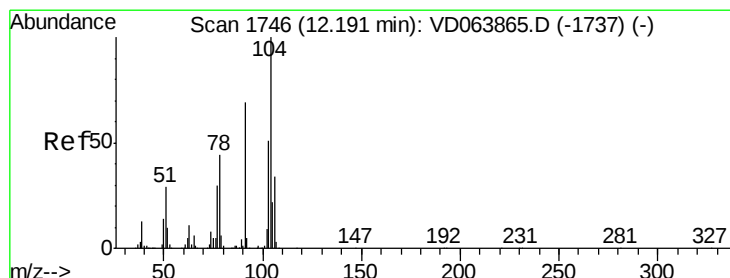
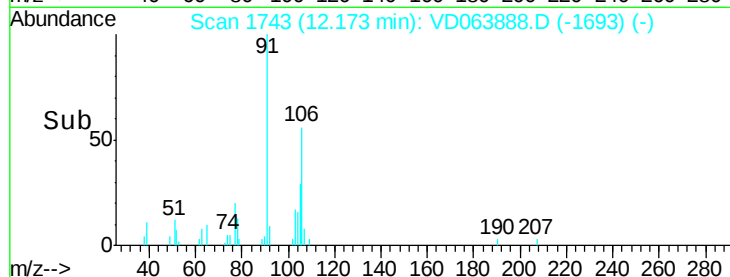
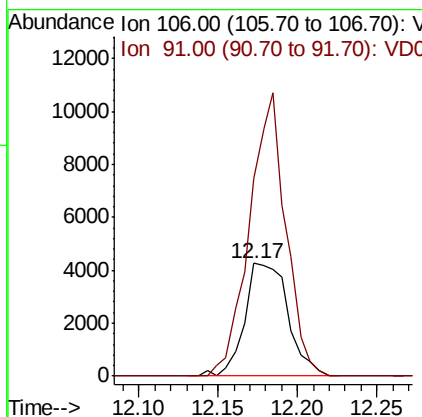
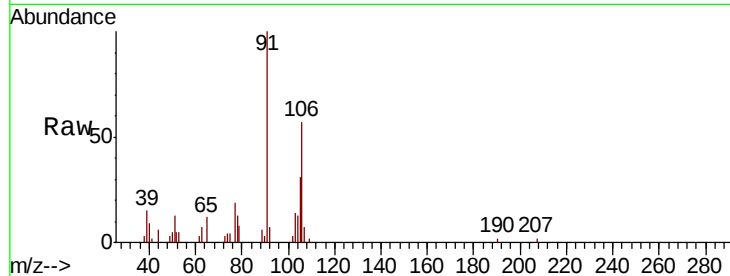
#69
o-Xylene
Concen: 2.117 ug/l
RT: 12.17 min Scan# 1743
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:106 Resp: 8089
Ion Ratio Lower Upper
106 100
91 210.9 103.9 311.7

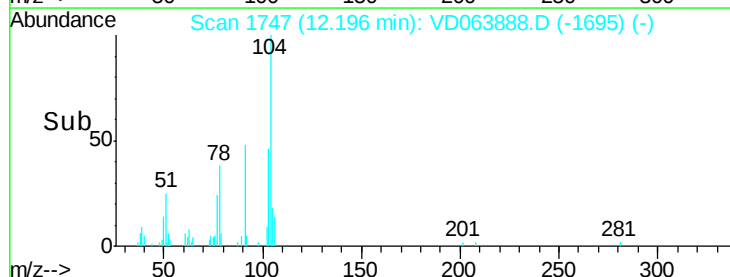
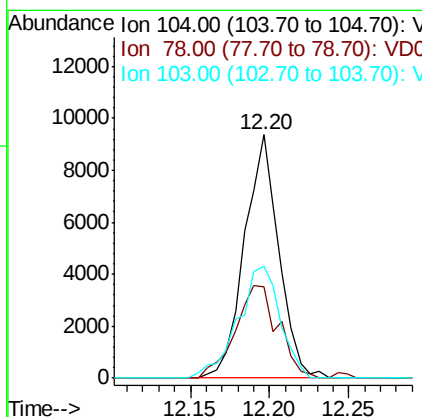
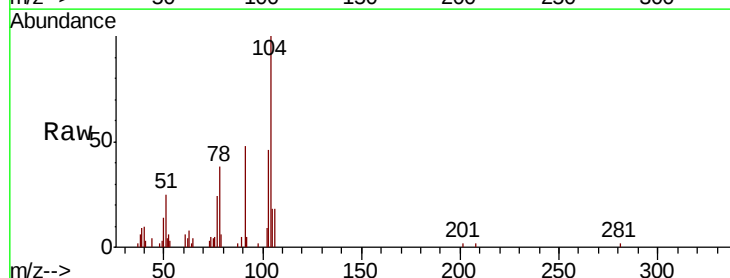
Manual Integrations
APPROVED

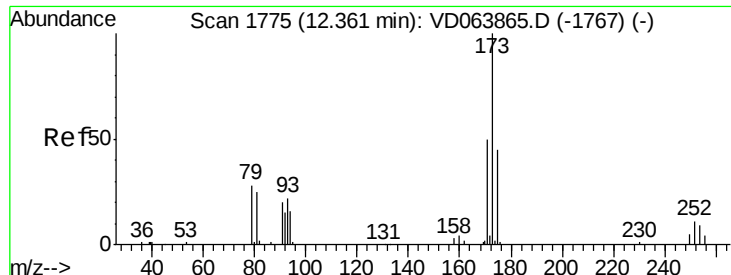
MMDadoda
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#70
Styrene
Concen: 2.177 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion:104 Resp: 14085
Ion Ratio Lower Upper
104 100
78 47.8 37.0 55.4
103 56.4 44.2 66.4





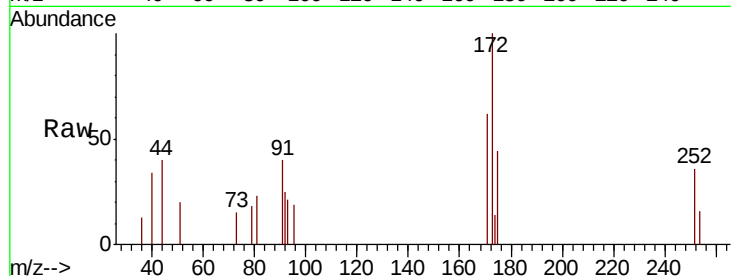
#71
Bromoform
Concen: 1.925 ug/l
RT: 12.35 min Scan# 1774
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

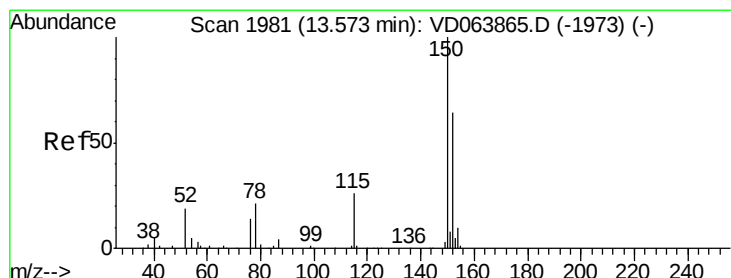
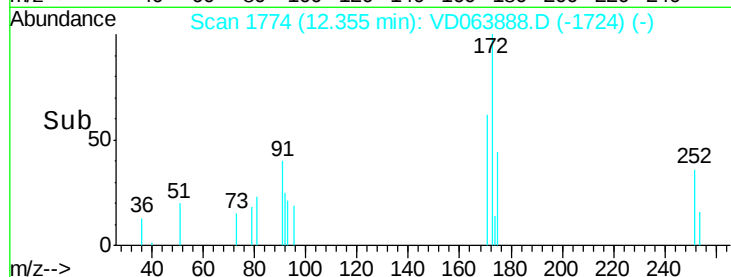
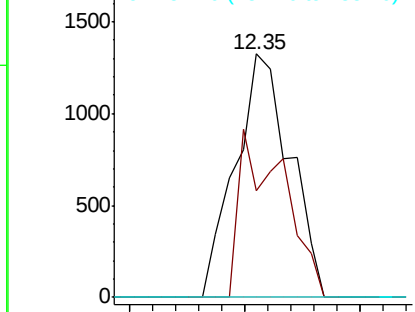
Tot Ion	Ratio	Lower	Upper
173	100		
175	56.8	24.6	74.0
254	0.0	0.0	0.0

Manual Integrations
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MMDadoda
10/8/2019 3:11:58 PM

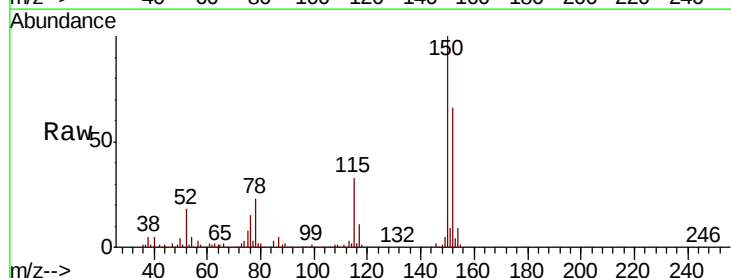


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

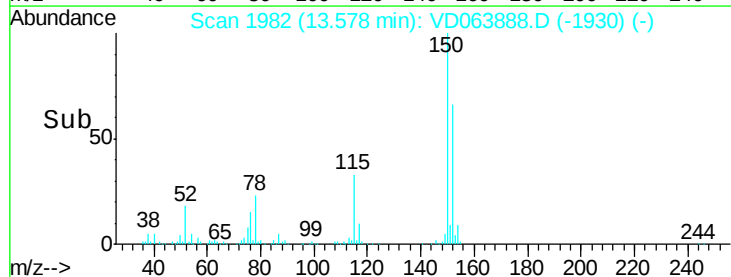
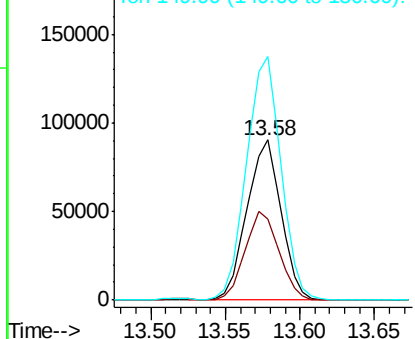


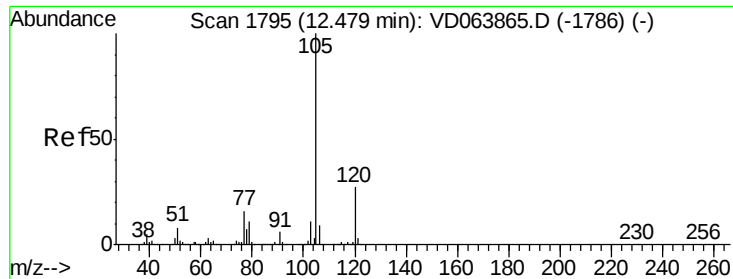
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	25.9	77.7
150	153.9	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: 2.321 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 105 Resp: 22199

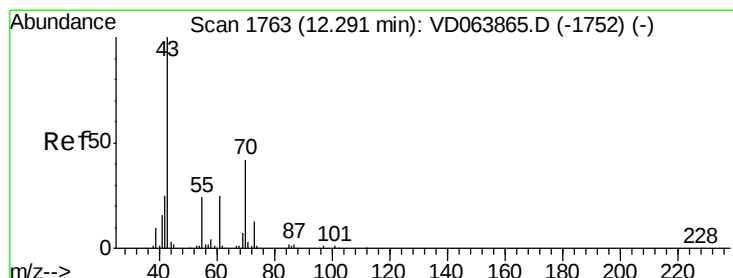
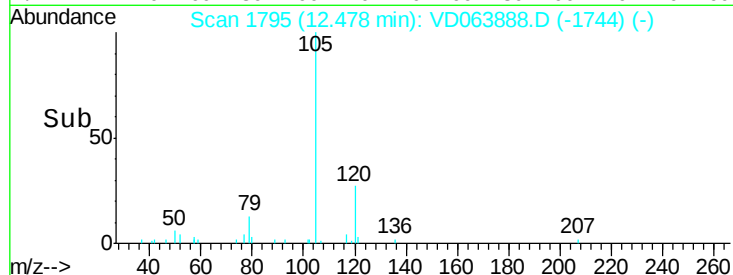
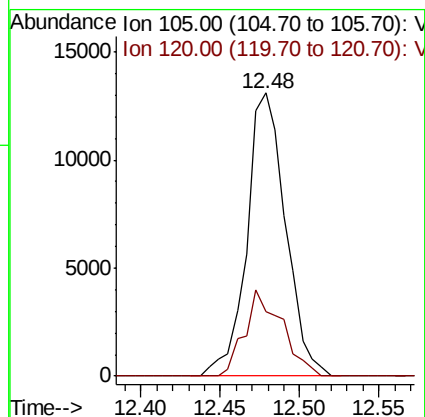
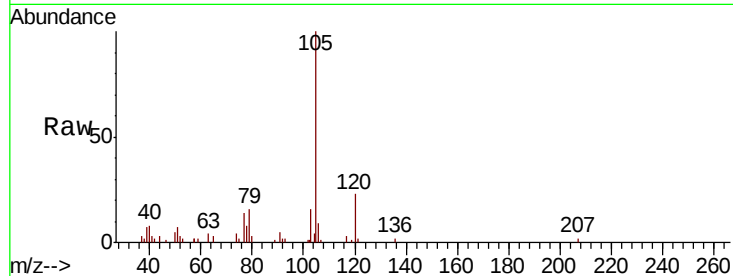
Ion Ratio Lower Upper

105 100

120 29.4 13.3 39.8

Manual Integrations
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#74

N-ethyl acetate

Concen: 2.453 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion: 43 Resp: 5051

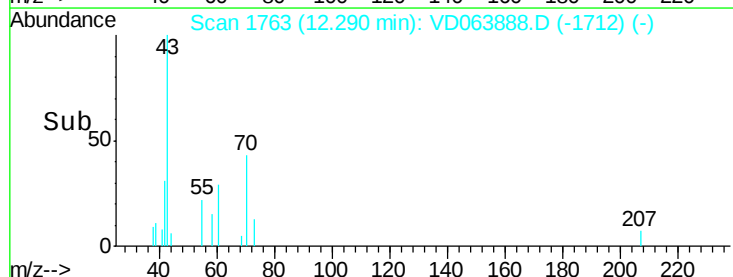
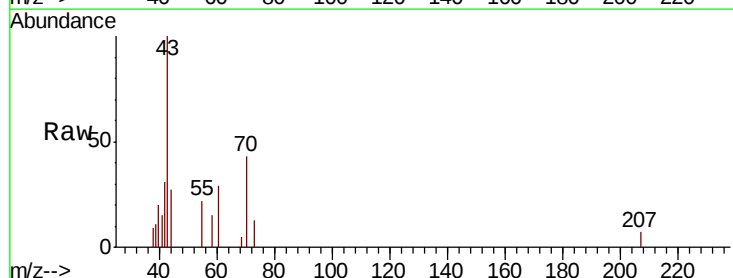
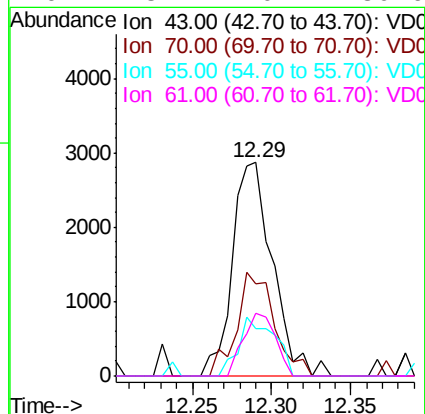
Ion Ratio Lower Upper

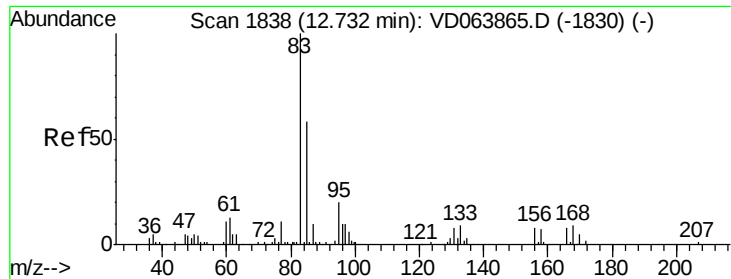
43 100

70 45.6 35.8 53.6

55 24.8 19.4 29.0

61 23.4 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 2.473 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

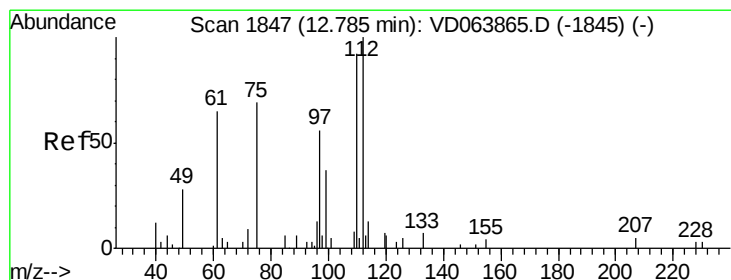
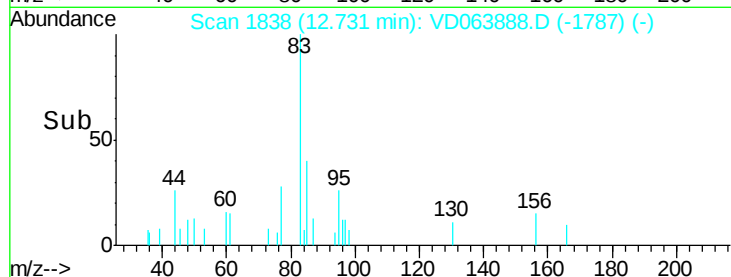
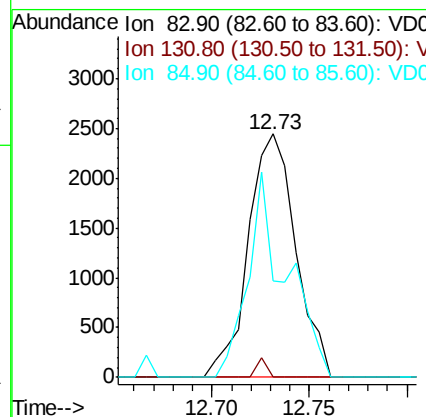
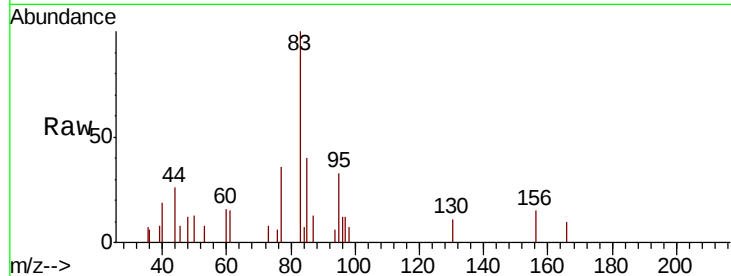
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	1.7	5.6	16.8#
85	68.1	32.3	96.8

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#76

1,2,3-Trichloropropane

Concen: 2.127 ug/l m

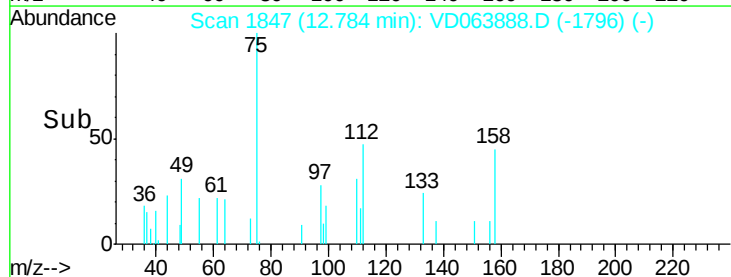
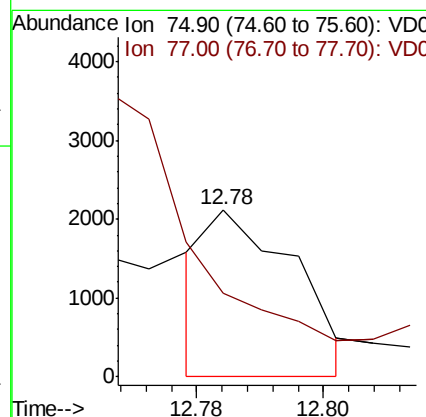
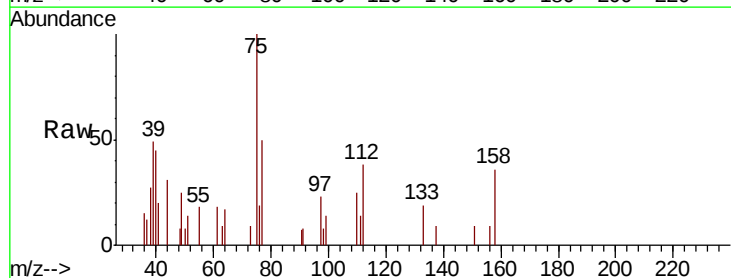
RT: 12.78 min Scan# 1847

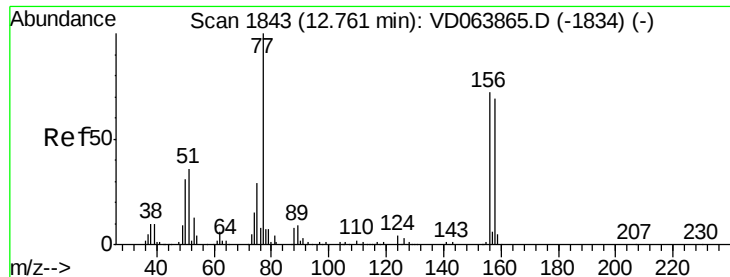
Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.112 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

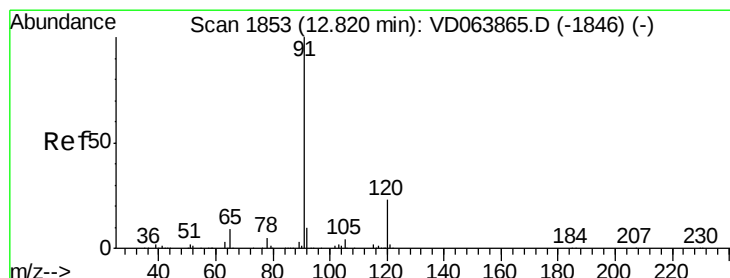
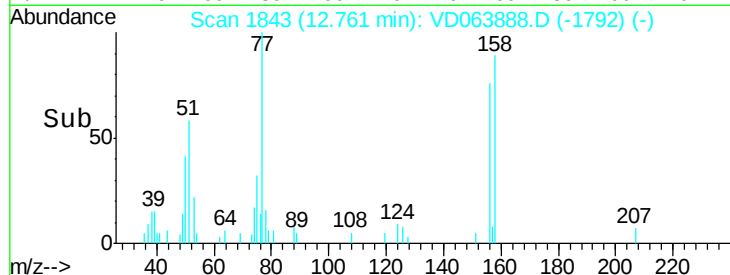
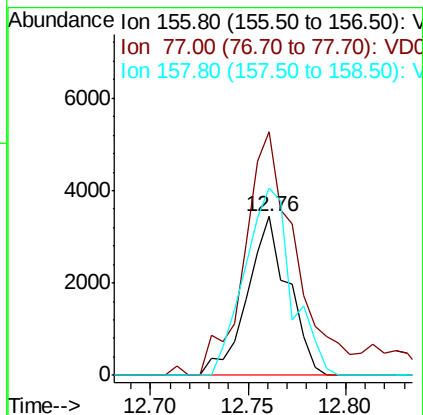
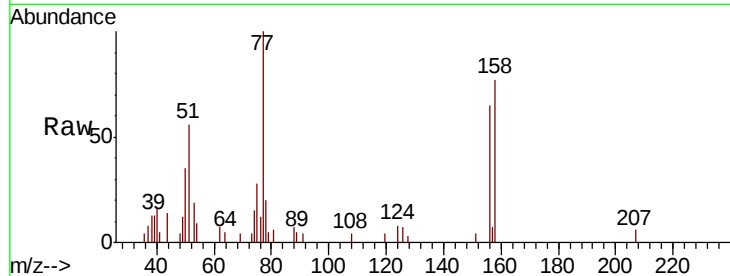
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	156	Resp:	5034
Ion	Ratio	Lower	Upper
156	100		
77	194.8	80.3	241.0
158	135.9	47.4	142.2

Manual Integrations
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#78

n-propylbenzene

Concen: 2.362 ug/l

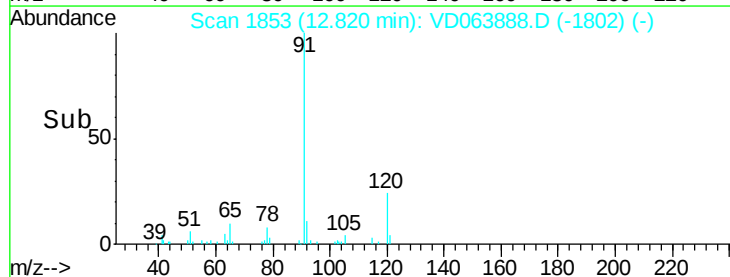
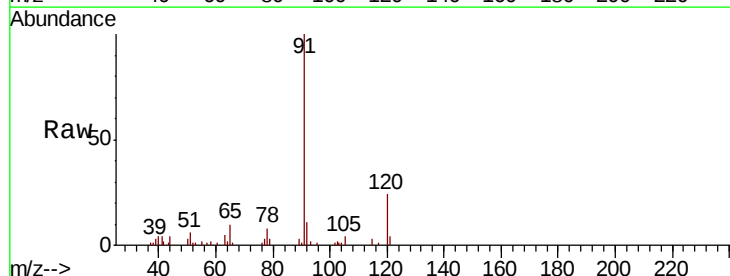
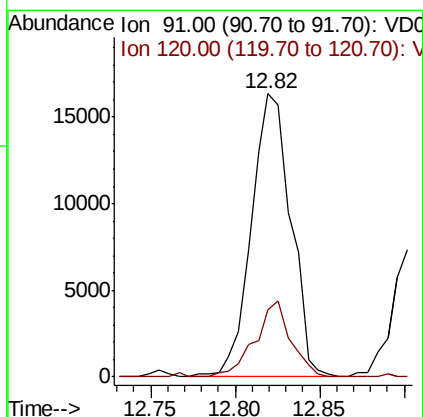
RT: 12.82 min Scan# 1853

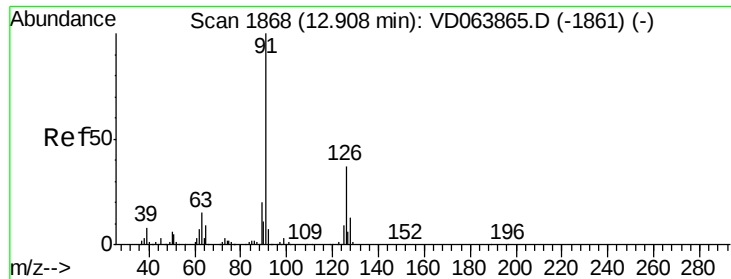
Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion:	91	Resp:	26525
Ion	Ratio	Lower	Upper
91	100		
120	24.1	12.0	36.0





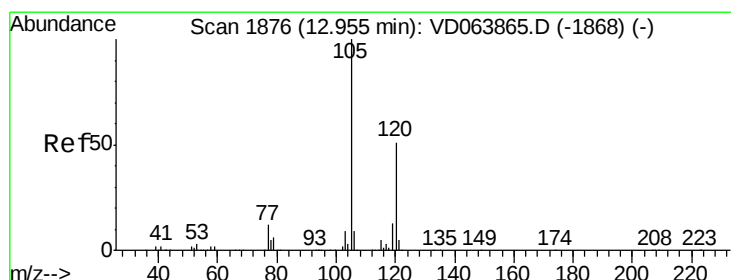
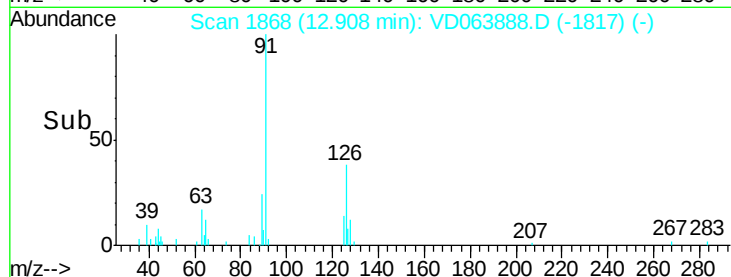
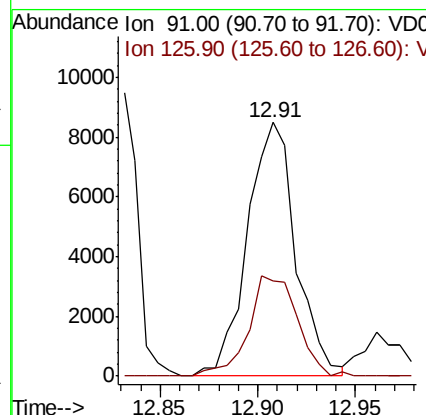
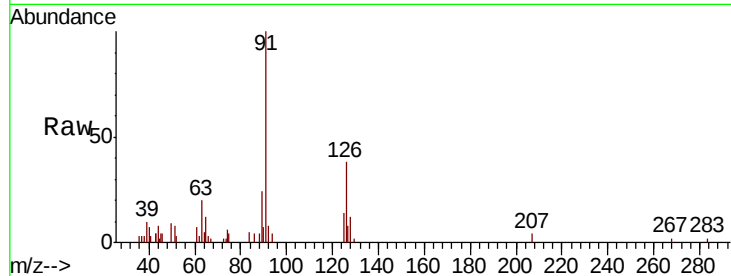
#79
 2-Chlorotoluene
 Concen: 2.356 ug/l
 RT: 12.91 min Scan# 1868
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 14589
 Ion Ratio Lower Upper
 91 100
 126 39.9 18.4 55.2

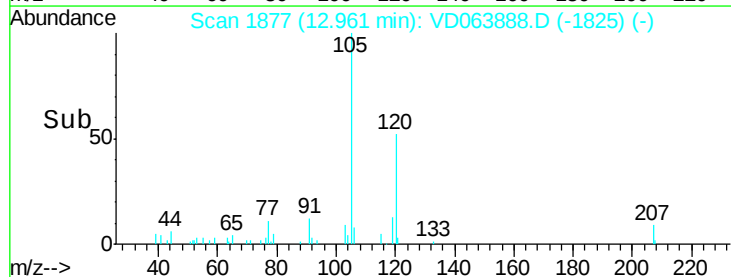
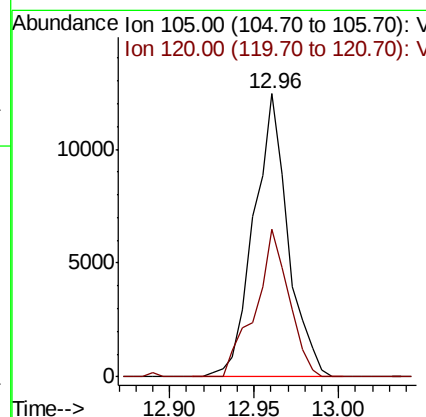
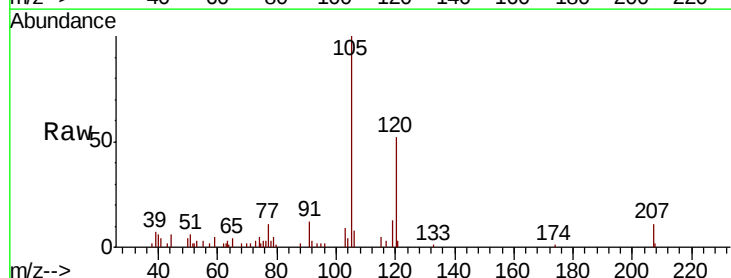
Manual Integrations
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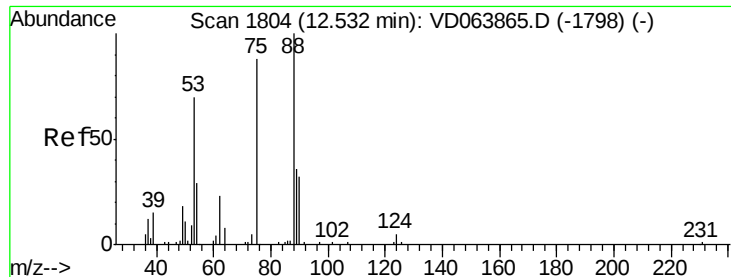
MMDadoda
 10/8/2019 3:11:58 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 2.197 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. 0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion: 105 Resp: 17536
 Ion Ratio Lower Upper
 105 100
 120 50.9 25.9 77.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.419 ug/l m

RT: 12.53 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

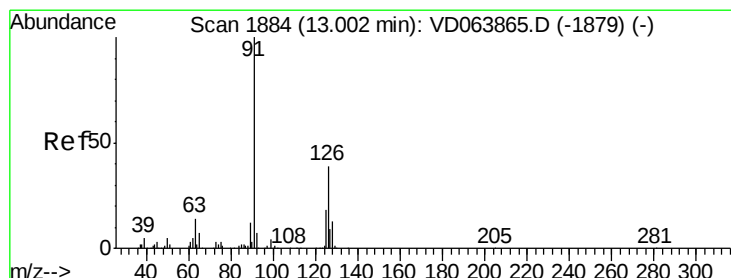
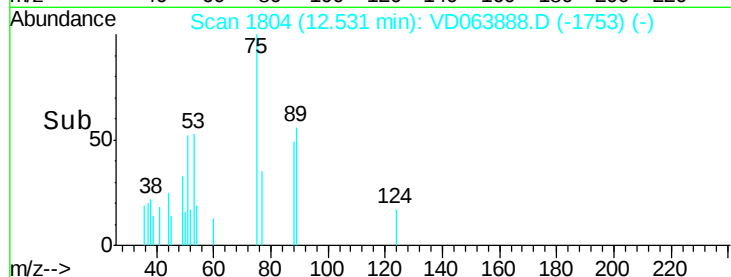
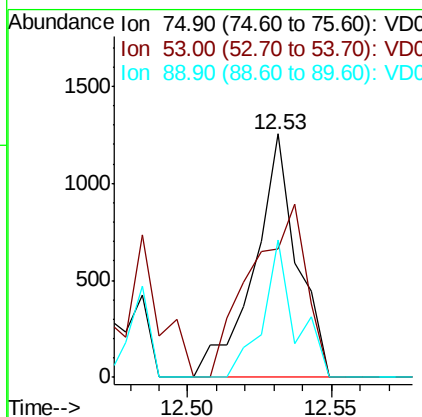
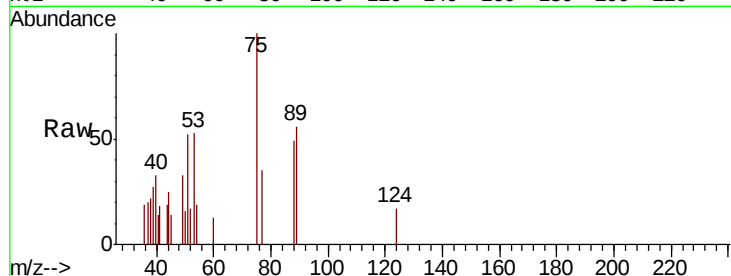
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	4.2	75.0	112.6#
89	20.7	38.2	57.4#

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#82

4-Chlorotoluene

Concen: 2.242 ug/l

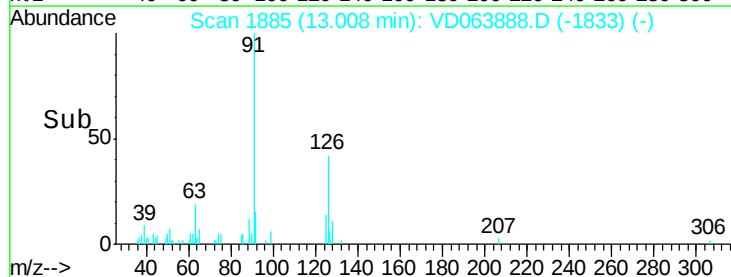
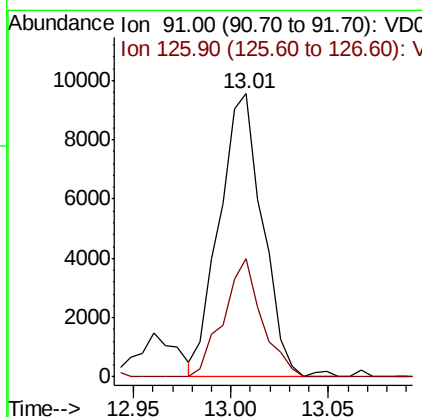
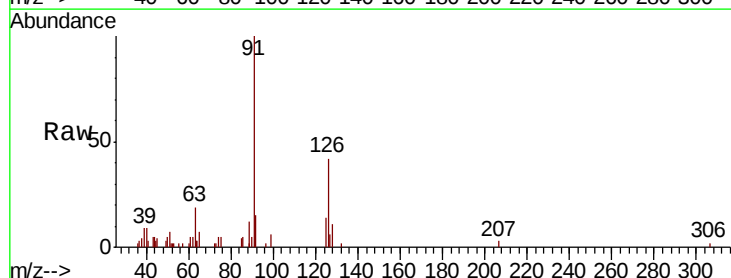
RT: 13.01 min Scan# 1885

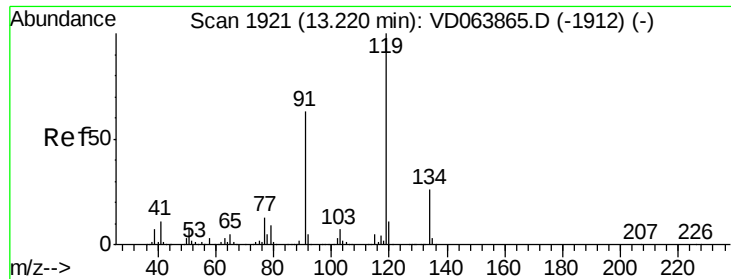
Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.6	55.8





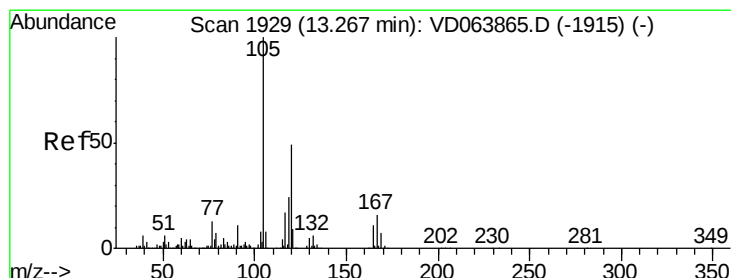
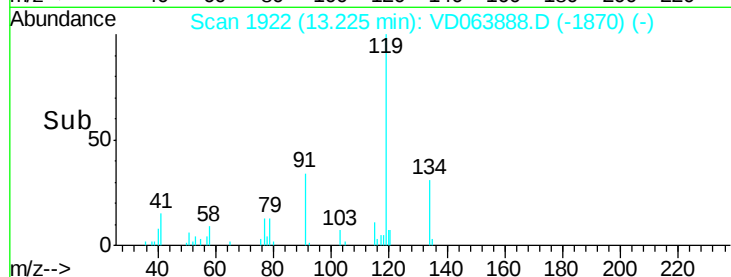
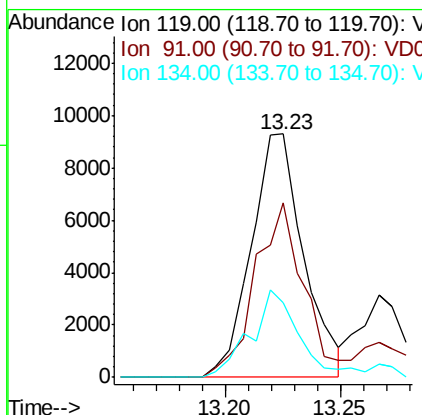
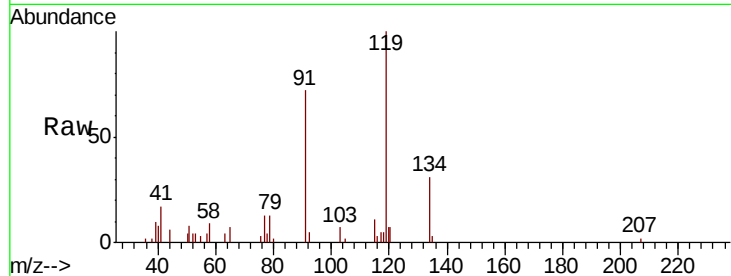
#83
tert-Butylbenzene
Concen: 2.074 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.9	30.0	90.0
134	32.0	13.0	38.9

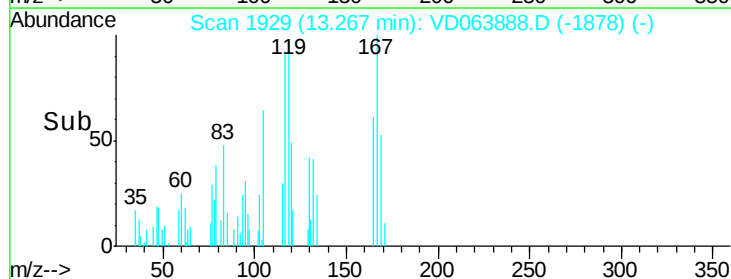
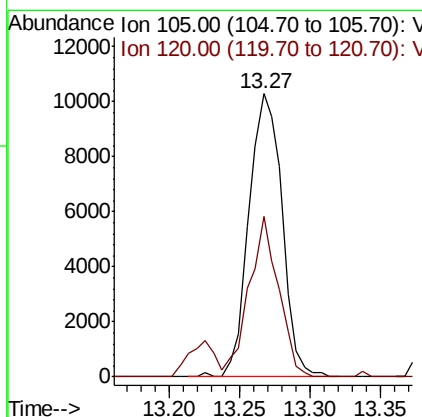
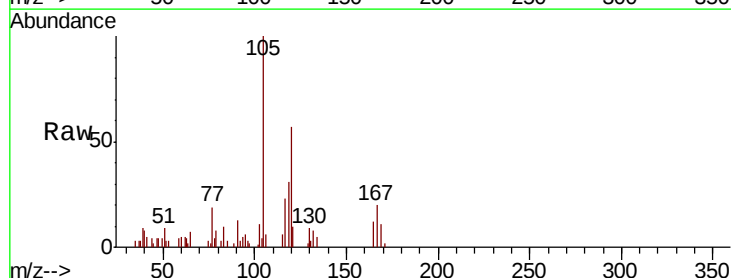
Manual Integrations
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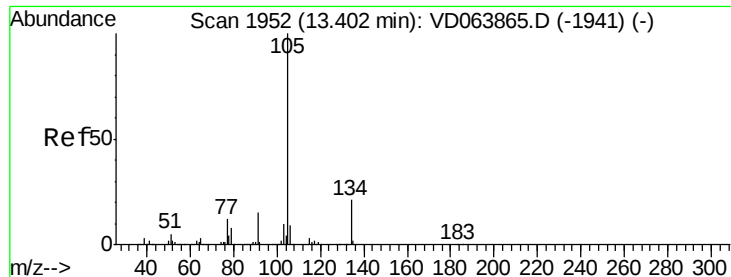
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#84
1,2,4-Trimethylbenzene
Concen: 2.064 ug/l
RT: 13.27 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.4	23.8	71.5





#85

sec-Butylbenzene

Concen: 2.413 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 23146

Ion Ratio Lower Upper

105 100

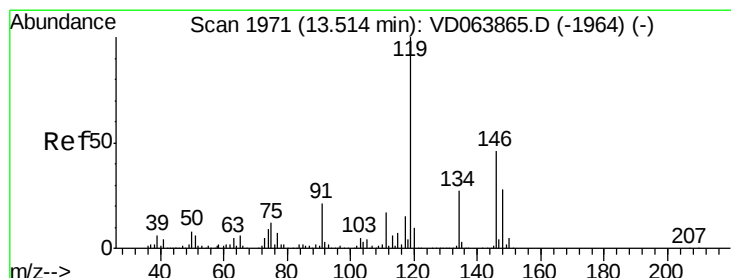
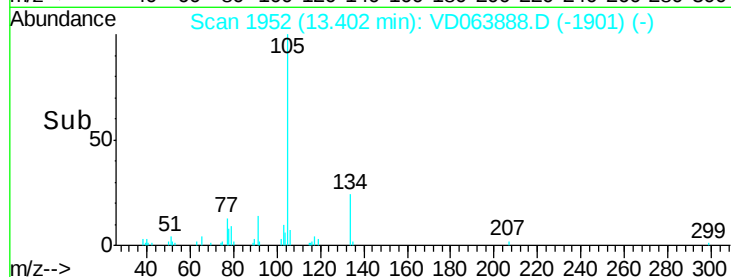
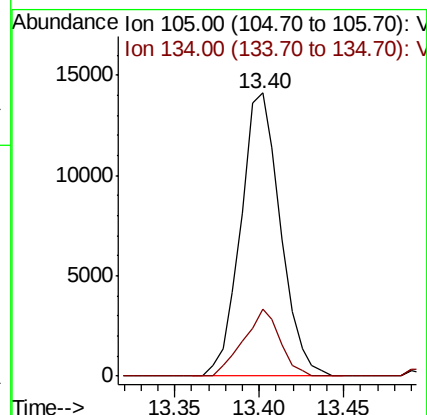
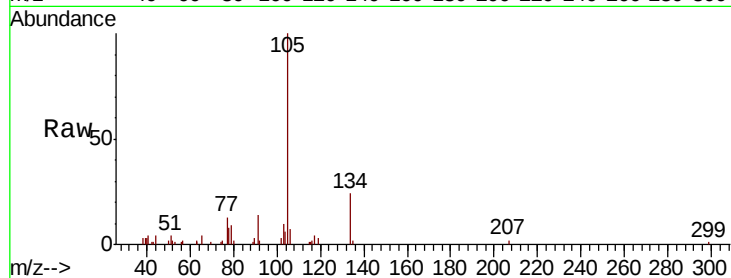
134 21.7 10.6 31.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 2.153 ug/l

RT: 13.51 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

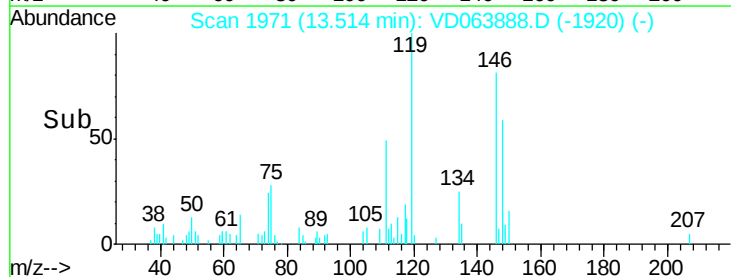
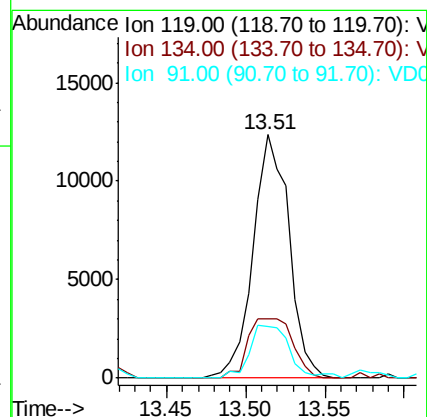
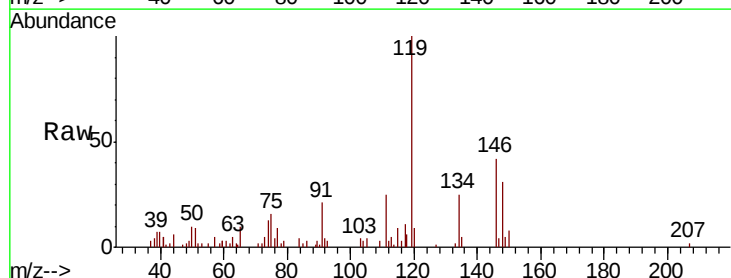
Tgt Ion:119 Resp: 19537

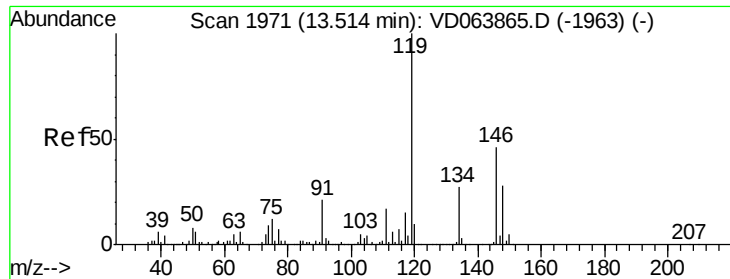
Ion Ratio Lower Upper

119 100

134 30.3 13.9 41.6

91 24.0 11.2 33.5





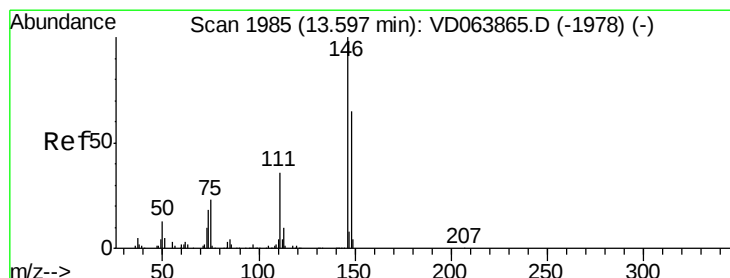
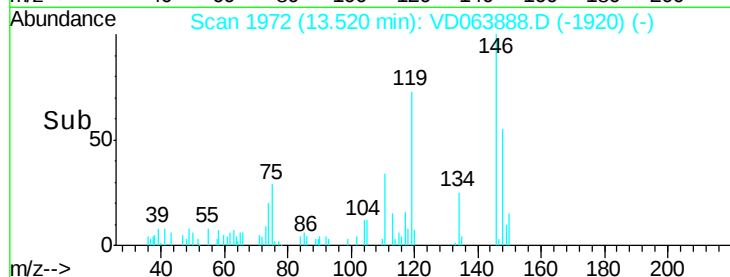
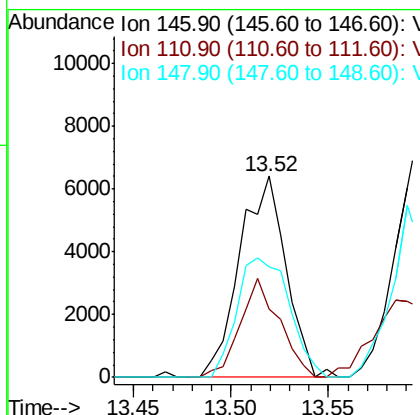
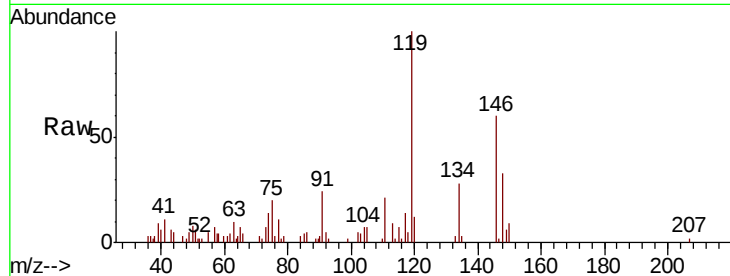
#87
 1,3-Dichlorobenzene
 Concen: 2.243 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleID :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	18.3	54.9
148	67.2	31.8	95.4

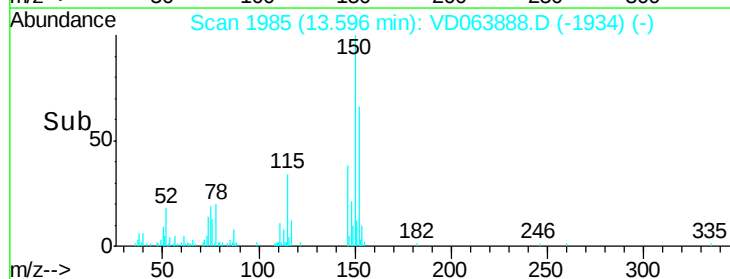
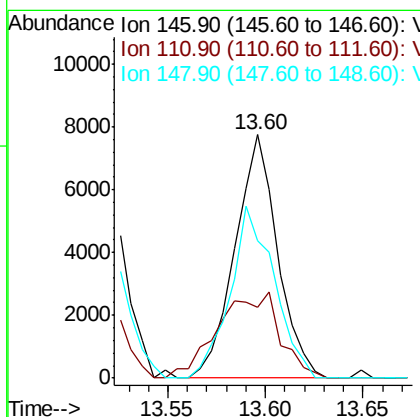
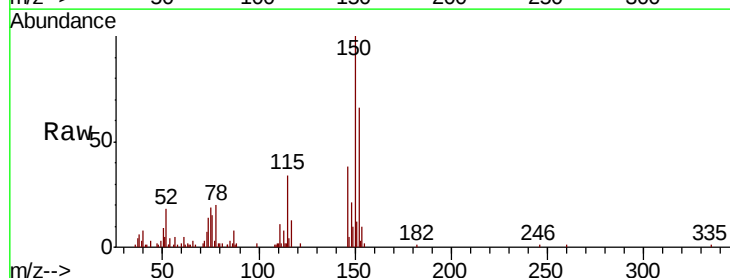
Manual Integrations
 APPROVED

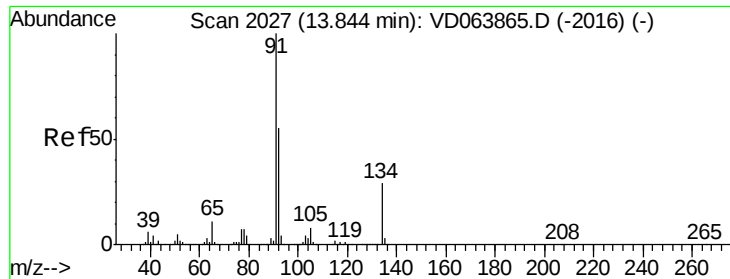
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 10/8/2019 3:11:58 PM



#88
 1,4-Dichlorobenzene
 Concen: 2.526 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	51.0	18.6	56.0
148	73.2	32.6	98.0





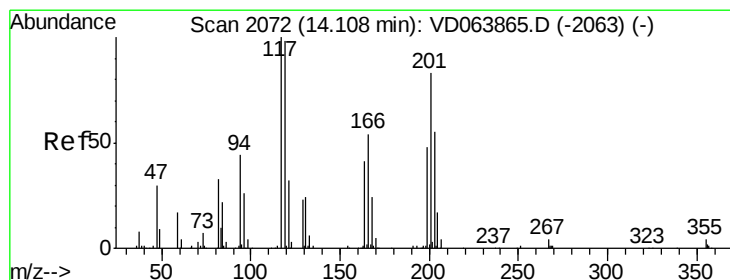
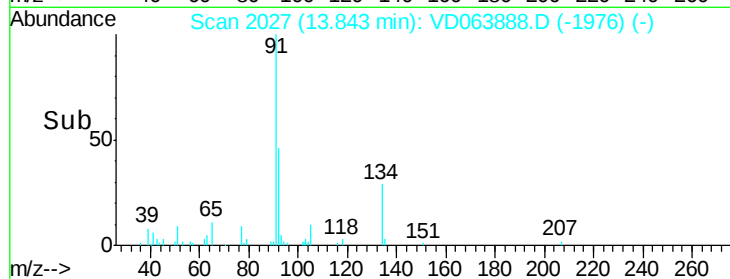
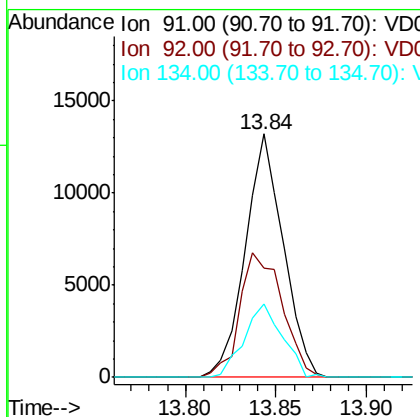
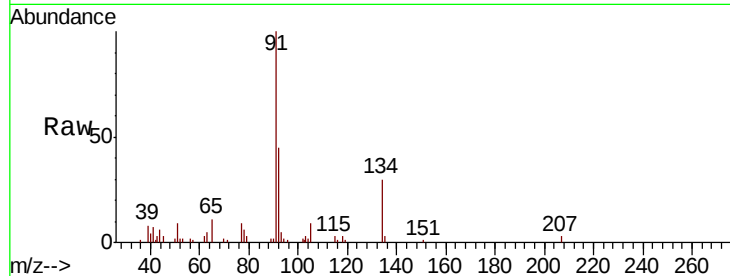
#89
n-Butylbenzene
Concen: 2.273 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		19200		
92	57.4	26.8	80.3		
134	30.5	14.4	43.0		

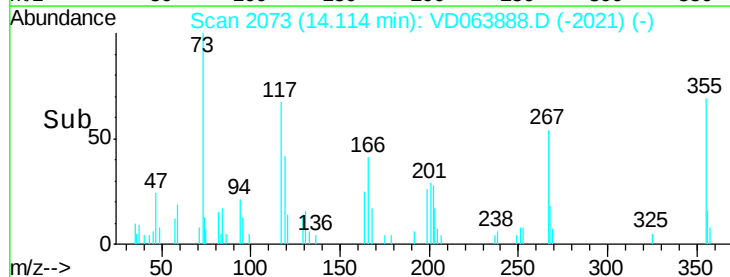
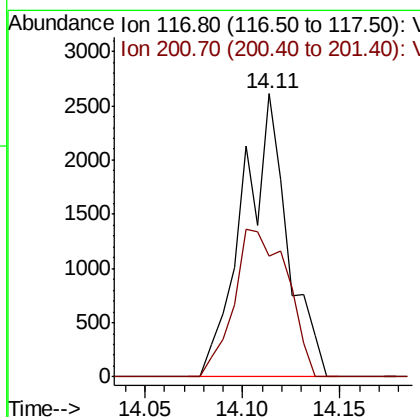
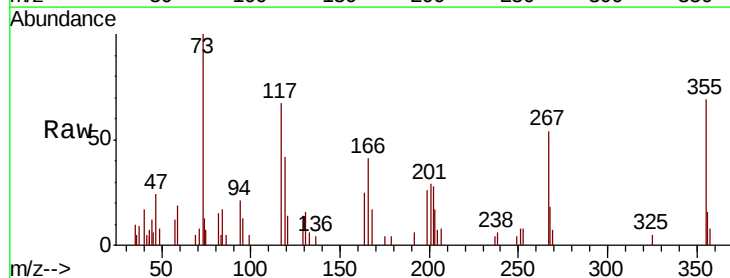
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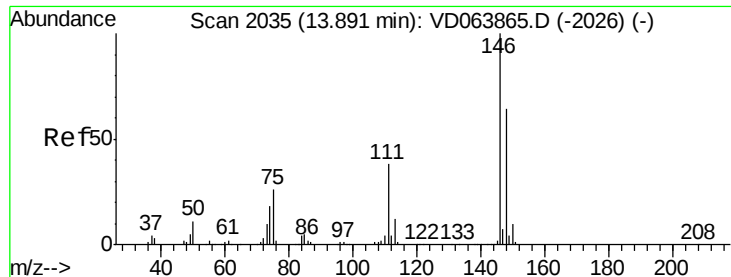
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#90
Hexachloroethane
Concen: 2.535 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		4138		
201	62.3	40.6	121.7		





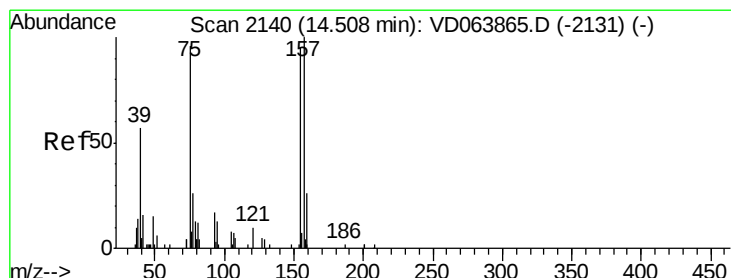
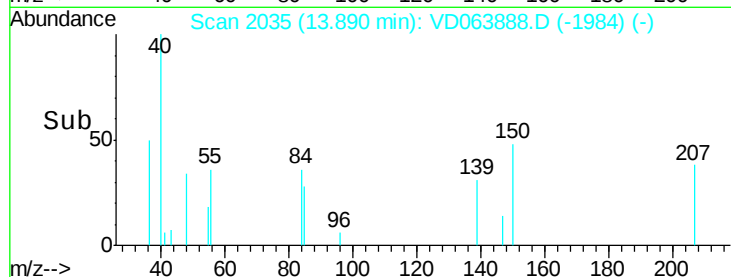
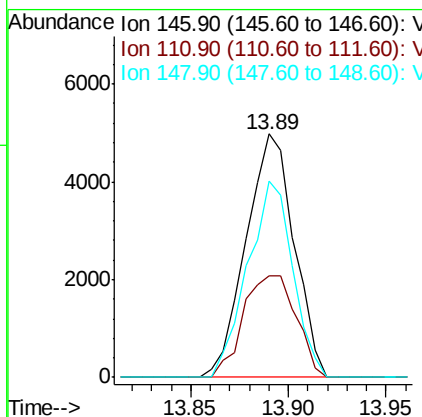
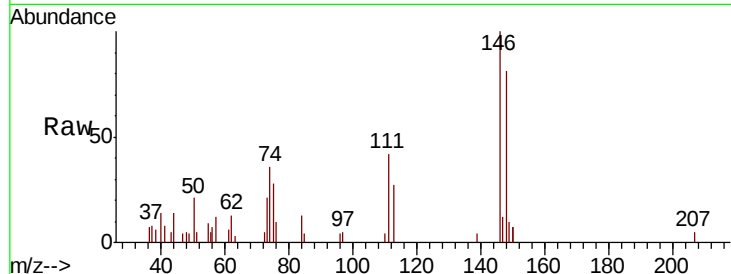
#91
 1,2-Dichlorobenzene
 Concen: 2.090 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	18.6	55.6
148	75.7	31.6	95.0

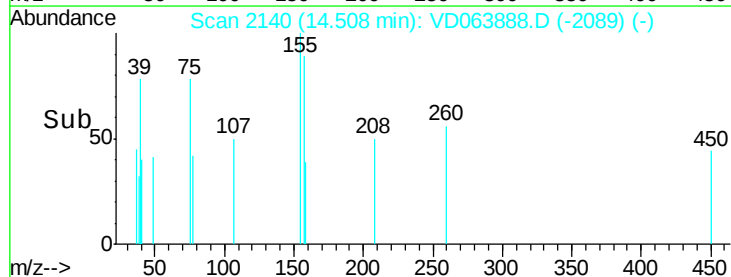
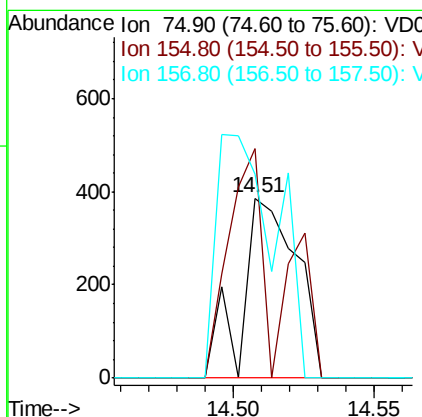
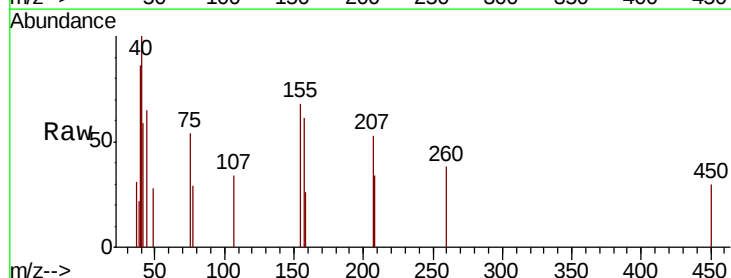
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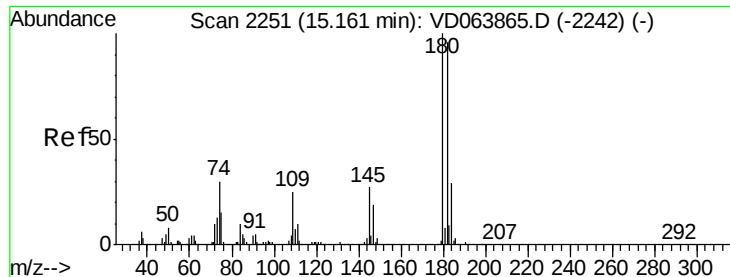
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.799 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.6	43.9	131.6
157	146.5	56.0	167.9





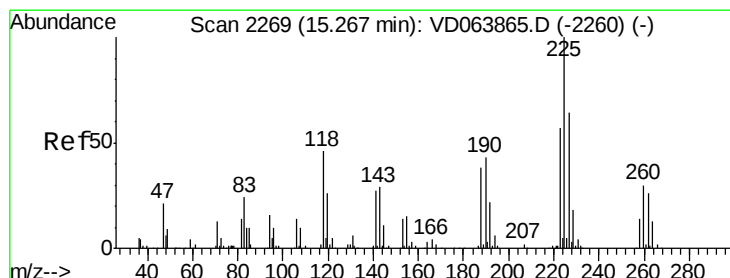
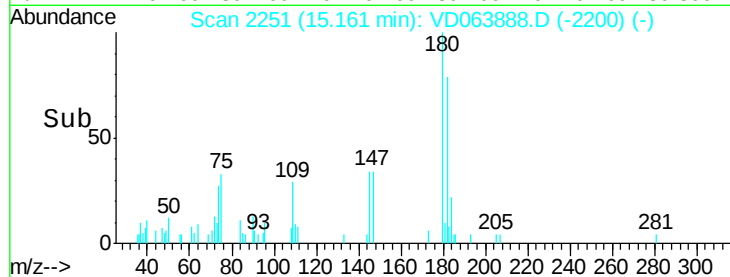
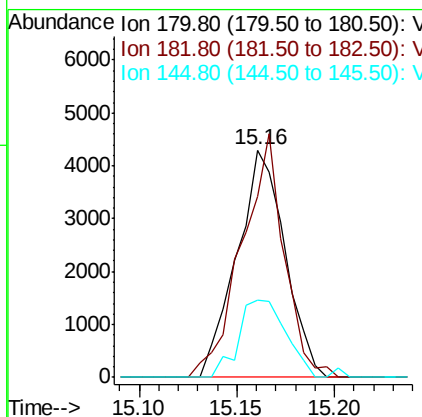
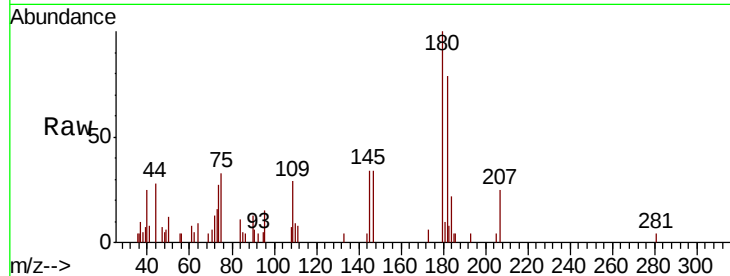
#93
 1,2,4-Trichlorobenzene
 Concen: 2.342 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.4	142.3
145	33.6	13.9	41.7

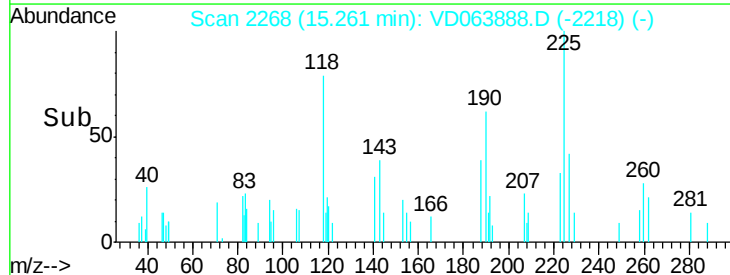
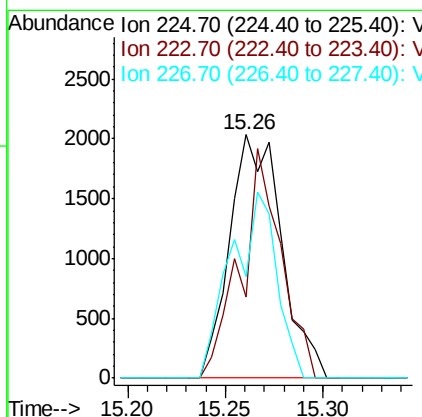
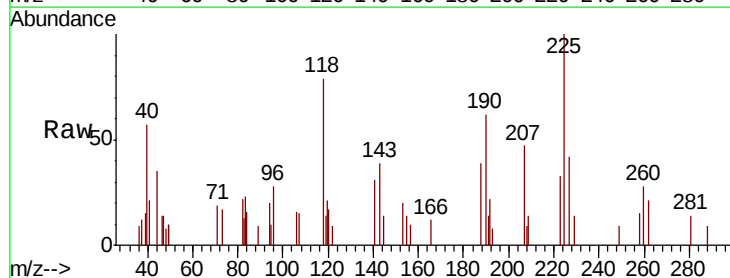
Manual Integrations
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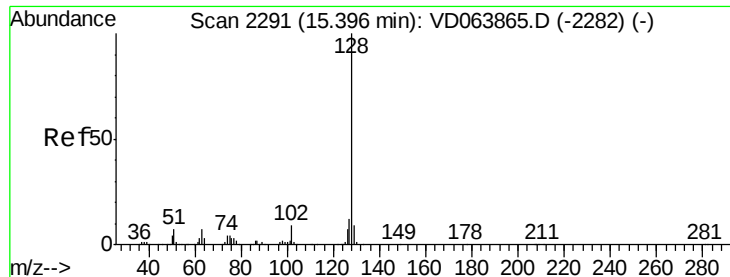
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#94
 Hexachlorobutadiene
 Concen: 2.167 ug/l
 RT: 15.26 min Scan# 2268
 Delta R.T. -0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion	Ratio	Lower	Upper
225	100		
223	73.2	29.5	88.6
227	66.9	30.8	92.4





#95

Naphthalene

Concen: 2.137 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

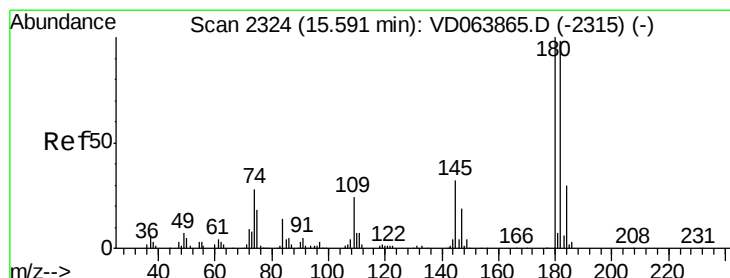
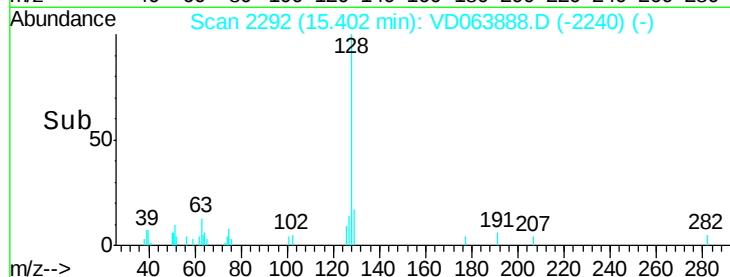
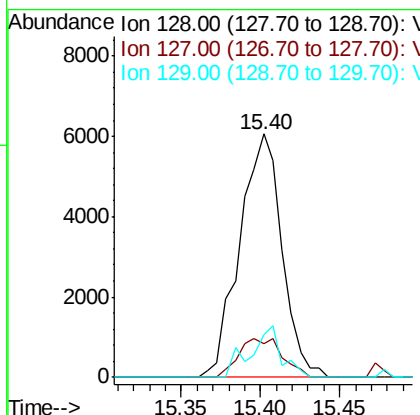
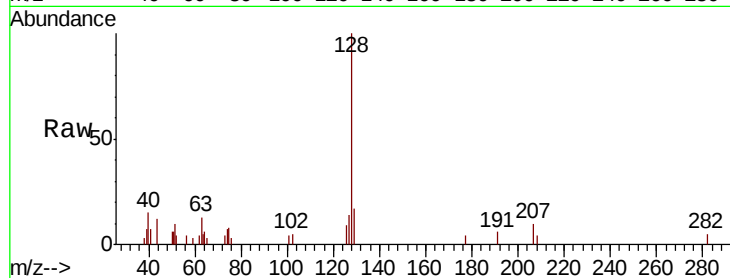
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	128	Resp:	11246
Ion Ratio	Lower	Upper	
128	100		
127	16.5	10.6	16.0#
129	15.3	8.6	13.0#

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 2.423 ug/l

RT: 15.59 min Scan# 2324

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion:	180	Resp:	6545
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.0	141.0
145	34.8	15.3	45.9

