

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD043019\
 Data File : VD062086.D
 Acq On : 30 Apr 2019 14:39
 Operator : FY/SY
 Sample : K2241-01
 Misc : 5.00gm/5mL/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 7:23:32 AM

Quant Time: May 01 08:33:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 01 08:28:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	522098	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.20	114	824474	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	749824	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	374202	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	234518	57.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	114.78%	
35) Dibromofluoromethane	6.90	113	343999	60.33	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	120.66%	
50) Toluene-d8	10.40	98	767420	56.56	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.12%	
62) 4-Bromofluorobenzene	13.55	95	292113	53.68	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	107.36%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.58	85	18043	3.870	ug/l	89
3) Chloromethane	1.75	50	14190	3.581	ug/l	97
4) Vinyl Chloride	1.84	62	12565	3.499	ug/l	89
5) Bromomethane	2.15	94	6042	5.907	ug/l #	74
6) Chloroethane	2.27	64	3968	3.057	ug/l #	61
7) Trichlorofluoromethane	2.52	101	21618	3.981	ug/l	89
8) Diethyl Ether	2.87	74	4572	3.142	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.14	101	16799	3.358	ug/l	92
10) Methyl Iodide	3.30	142	16340	2.616	ug/l #	96
11) Tert butyl alcohol	4.05	59	3668	15.887	ug/l #	76
12) 1,1-Dichloroethene	3.12	96	14064	3.305	ug/l	96
13) Acrolein	3.03	56	3077	12.845	ug/l	100
14) Allyl chloride	3.61	41	15592	2.683	ug/l #	82
15) Acrylonitrile	4.18	53	10664	14.917	ug/l #	87
16) Acetone	3.21	43	16851	17.271	ug/l #	82
17) Carbon Disulfide	3.37	76	40495	3.293	ug/l	96
18) Methyl Acetate	3.63	43	8599	4.380	ug/l	95
19) Methyl tert-butyl Ether	4.21	73	25383	3.006	ug/l	92
20) Methylene Chloride	3.80	84	34724	6.420	ug/l	98
21) trans-1,2-Dichloroethene	4.21	96	17164	3.516	ug/l	84
22) Diisopropyl ether	5.09	45	37103	2.735	ug/l	93
23) Vinyl Acetate	5.03	43	92505	13.093	ug/l	99
24) 1,1-Dichloroethane	4.96	63	25204	3.074	ug/l #	85
25) 2-Butanone	6.05	43	17047	14.411	ug/l #	91
26) 2,2-Dichloropropane	6.01	77	20577	2.876	ug/l	100
27) cis-1,2-Dichloroethene	6.03	96	16542	2.978	ug/l	90
28) Bromochloromethane	6.42	49	8130	2.591	ug/l	89
29) Tetrahydrofuran	6.43	42	7702	13.214	ug/l	91
30) Chloroform	6.65	83	27082	2.908	ug/l	94
31) Cyclohexane	6.94	56	19059	3.131	ug/l #	91
32) 1,1,1-Trichloroethane	6.84	97	23892	2.948	ug/l #	91
36) 1,1-Dichloropropene	7.13	75	22060	3.434	ug/l	90
37) Ethyl Acetate	6.17	43	8586	3.137	ug/l #	64
38) Carbon Tetrachloride	7.09	117	24911	3.060	ug/l	84

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	23376	3.688	ug/l	90
40) Benzene	7.44	78	46148	2.902	ug/l	96
41) Methacrylonitrile	6.42	41	10350	3.241	ug/l	91
42) 1,2-Dichloroethane	7.55	62	17378	3.218	ug/l	96
43) Isopropyl Acetate	9.22	43	12322	3.081	ug/l #	85
44) Trichloroethene	8.53	130	19568	3.174	ug/l	86
45) 1,2-Dichloropropane	8.92	63	11479	2.845	ug/l	95
46) Dibromomethane	9.05	93	8091	2.787	ug/l #	76
47) Bromodichloromethane	9.36	83	20774	3.029	ug/l	93
48) Methyl methacrylate	9.11	41	6637	2.908	ug/l #	87
49) 1,4-Dioxane	9.07	88	1193	48.491	ug/l #	31
51) 4-Methyl-2-Pentanone	10.28	43	42370	17.322	ug/l	92
52) Toluene	10.50	92	33610	3.315	ug/l	95
53) t-1,3-Dichloropropene	10.90	75	17488	3.037	ug/l	97
54) cis-1,3-Dichloropropene	10.02	75	21465	3.065	ug/l	97
55) 1,1,2-Trichloroethane	11.18	97	11059	3.249	ug/l	95
56) Ethyl methacrylate	11.03	69	10691	2.836	ug/l #	87
57) 1,3-Dichloropropane	11.39	76	15805	3.006	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.84	63	28326	16.160	ug/l	94
59) 2-Hexanone	11.52	43	29078	15.848	ug/l	99
60) Dibromochloromethane	11.67	129	16577	2.943	ug/l	99
61) 1,2-Dibromoethane	11.80	107	12191	3.019	ug/l	98
64) Tetrachloroethene	11.25	164	16143	3.018	ug/l	91
65) Chlorobenzene	12.39	112	38736	2.734	ug/l	95
66) 1,1,1,2-Tetrachloroethane	12.51	131	15736	2.618	ug/l	98
67) Ethyl Benzene	12.52	91	66653	2.882	ug/l	96
68) m/p-Xylenes	12.65	106	51452	6.156	ug/l	98
69) o-Xylene	13.04	106	21637	2.829	ug/l	100
70) Styrene	13.07	104	40182	3.043	ug/l	98
71) Bromoform	13.22	173	8006	2.337	ug/l #	82
73) Isopropylbenzene	13.39	105	65641	2.630	ug/l	100
74) N-amyl acetate	13.25	43	14969	2.329	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.69	83	13405	2.740	ug/l	91
76) 1,2,3-Trichloropropane	13.73	75	13179	2.773	ug/l	98
77) Bromobenzene	13.66	156	18090	2.526	ug/l	77
78) n-propylbenzene	13.77	91	80791	2.827	ug/l	99
79) 2-Chlorotoluene	13.83	91	42032	2.428	ug/l	96
80) 1,3,5-Trimethylbenzene	13.92	105	54267	2.726	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.46	75	3321m	2.306	ug/l	
82) 4-Chlorotoluene	13.94	91	52209	2.739	ug/l	97
83) tert-Butylbenzene	14.18	119	65934	2.860	ug/l	99
84) 1,2,4-Trimethylbenzene	14.23	105	57928	3.048	ug/l	98
85) sec-Butylbenzene	14.36	105	75926	3.048	ug/l	97
86) p-Isopropyltoluene	14.48	119	62651	2.810	ug/l	99
87) 1,3-Dichlorobenzene	14.44	146	35028	2.793	ug/l	100
88) 1,4-Dichlorobenzene	14.53	146	36027	3.072	ug/l	94
89) n-Butylbenzene	14.79	91	55318	2.763	ug/l	95
90) Hexachloroethane	15.00	117	16439	2.727	ug/l	87
91) 1,2-Dichlorobenzene	14.80	146	28989	2.803	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	1547	2.375	ug/l	75

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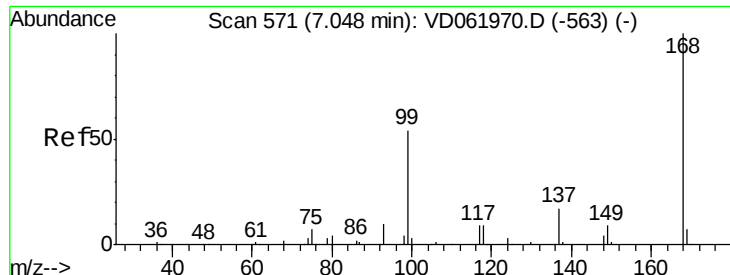
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	15305	2.742	ug/l	91
94) Hexachlorobutadiene	16.03	225	10921	2.644	ug/l	96
95) Naphthalene	16.12	128	25649	2.846	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	10196	3.220	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:168 Resp: 522098

Ion Ratio Lower Upper

168 100

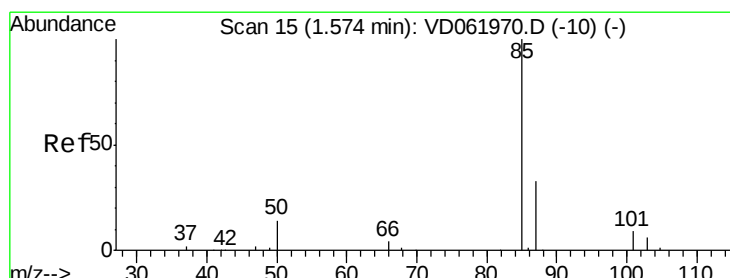
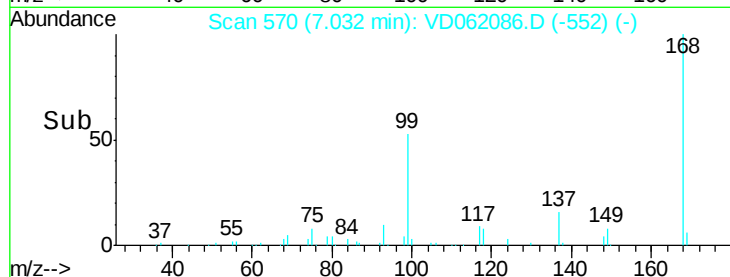
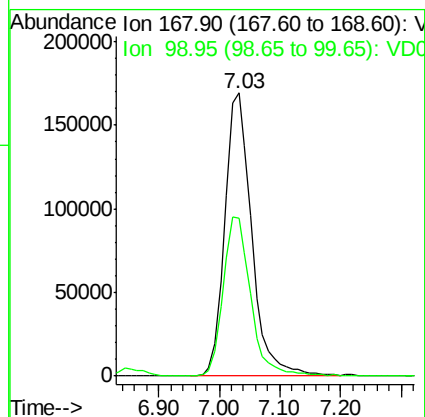
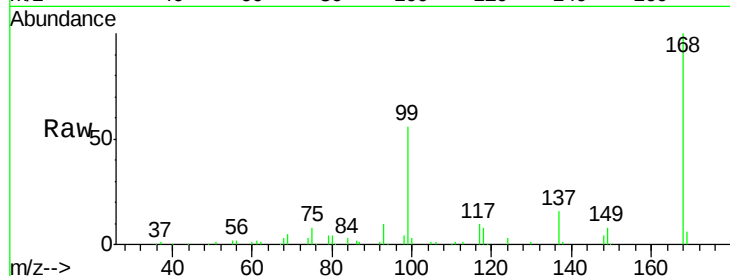
99 55.6 46.5 69.7

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#2

Dichlorodifluoromethane

Concen: 3.870 ug/l

RT: 1.58 min Scan# 16

Delta R.T. -0.01 min

Lab File: VD062086.D

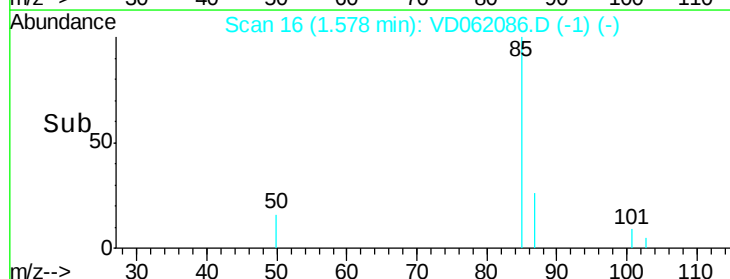
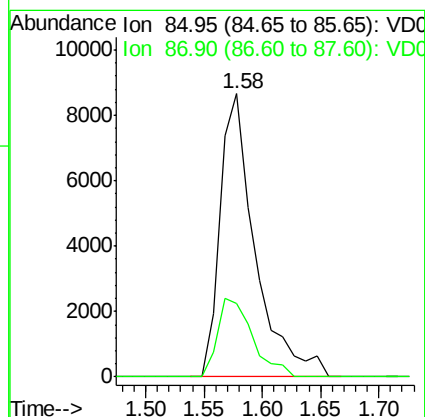
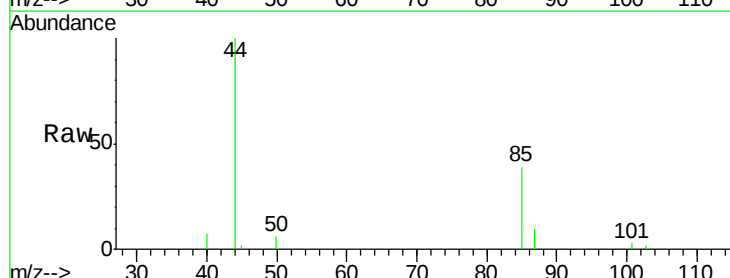
Acq: 30 Apr 2019 14:39

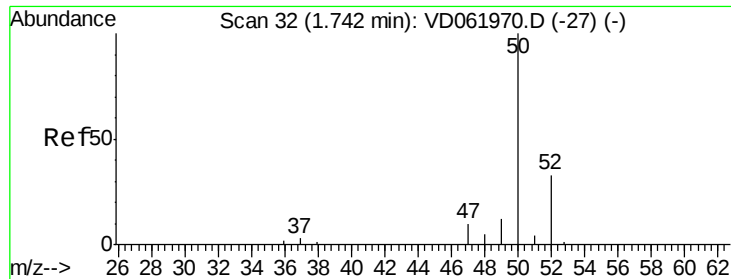
Tgt Ion: 85 Resp: 18043

Ion Ratio Lower Upper

85 100

87 26.0 16.2 48.6





#3

Chloromethane

Concen: 3.581 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 50 Resp: 14190

Ion Ratio Lower Upper

50 100

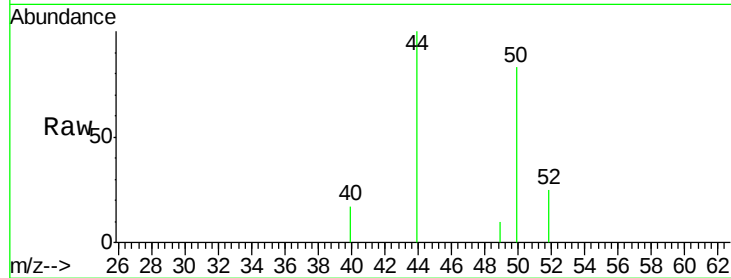
52 29.9 25.2 37.8

Manual Integrations

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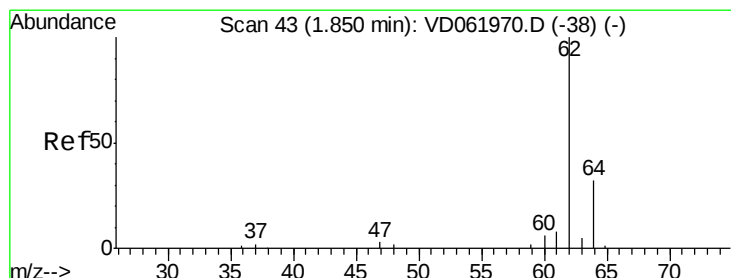
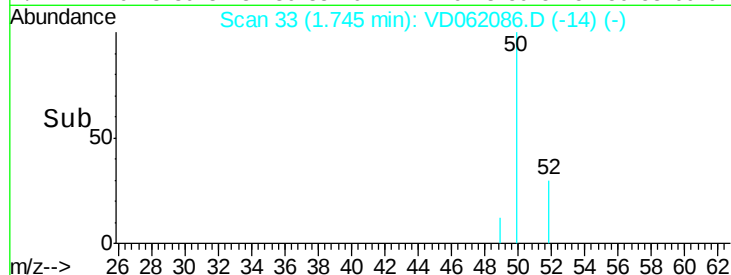
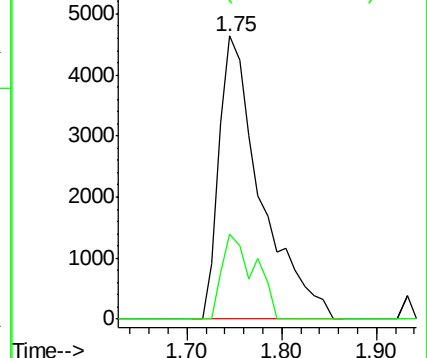
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 3.499 ug/l

RT: 1.84 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD062086.D

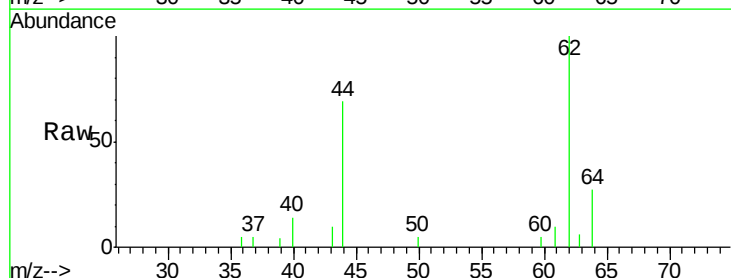
Acq: 30 Apr 2019 14:39

Tgt Ion: 62 Resp: 12565

Ion Ratio Lower Upper

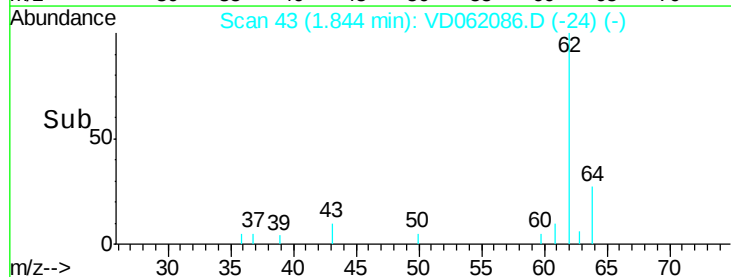
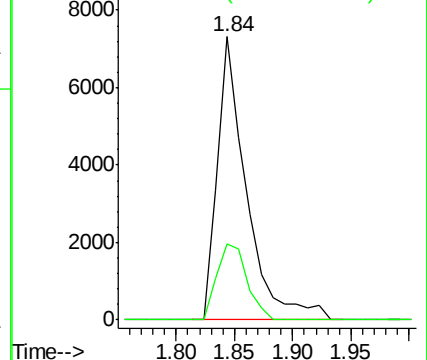
62 100

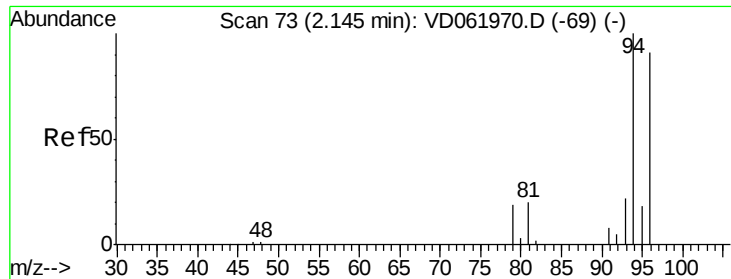
64 27.0 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





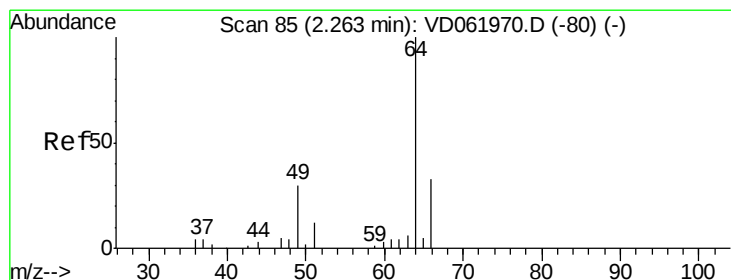
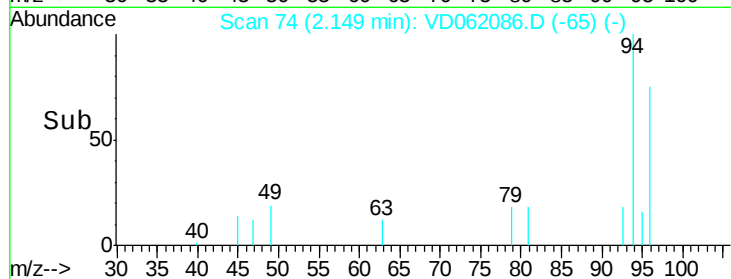
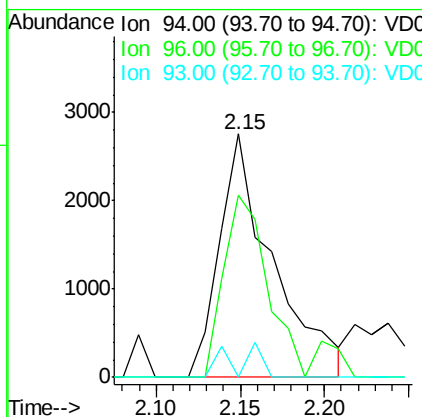
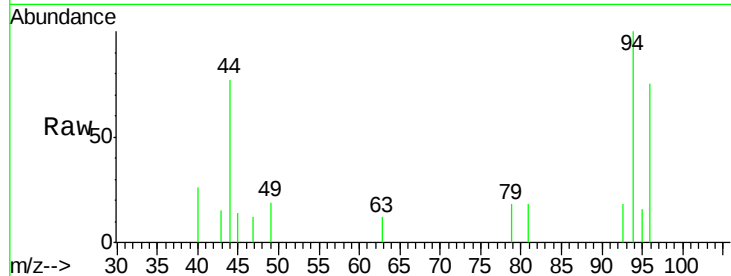
#5
Bromomethane
Concen: 5.907 ug/l
RT: 2.15 min Scan# 74
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

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Tot Ion: 94 Resp: 6042
Ion Ratio Lower Upper
94 100
96 74.9 76.6 115.0#
93 0.0 18.5 27.7#

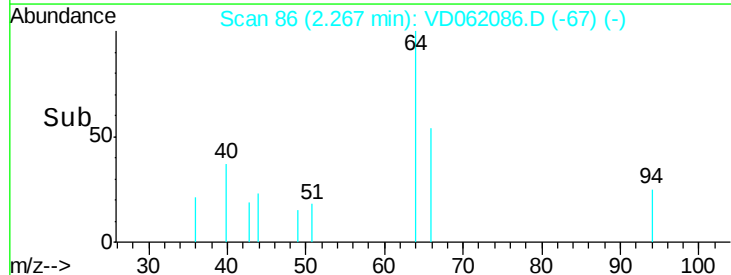
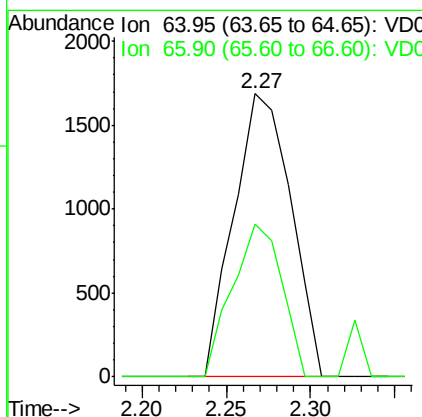
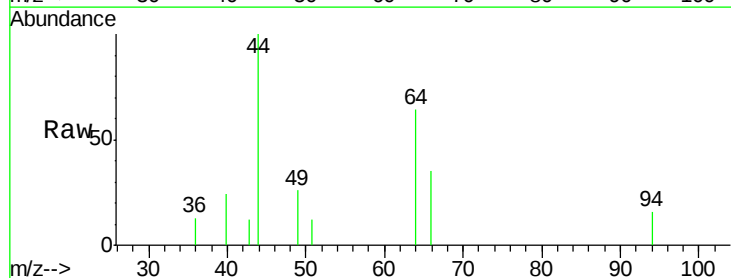
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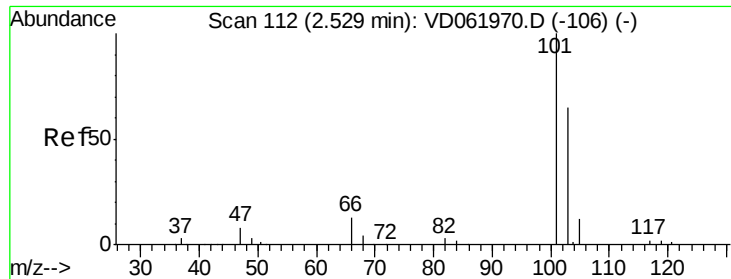
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#6
Chloroethane
Concen: 3.057 ug/l
RT: 2.27 min Scan# 86
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion: 64 Resp: 3968
Ion Ratio Lower Upper
64 100
66 53.9 25.6 38.4#





#7

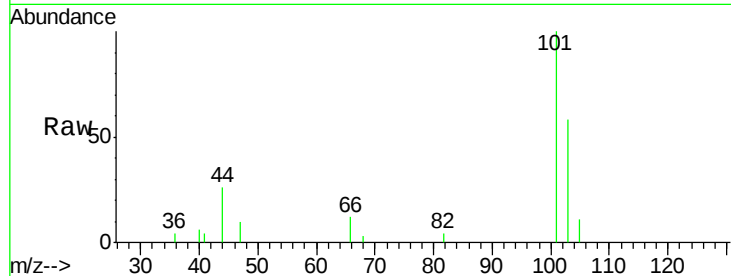
Trichlorofluoromethane
 Concen: 3.981 ug/l
 RT: 2.52 min Scan# 112
 Delta R.T. -0.02 min
 Lab File: VD062086.D
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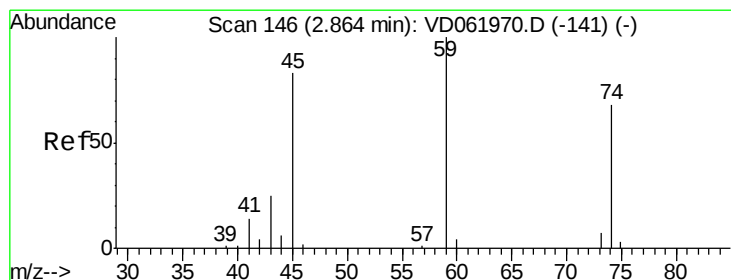
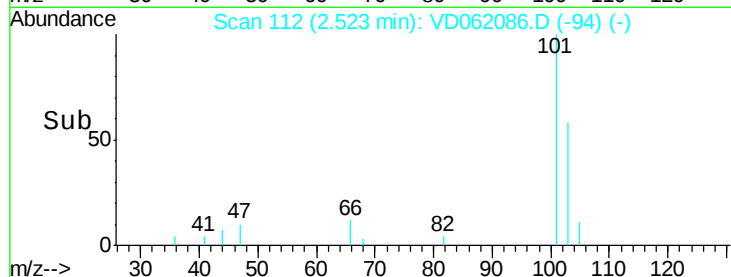
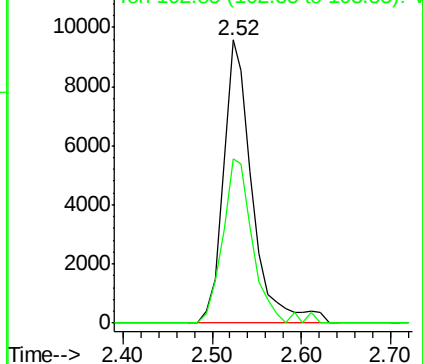
Tot Ion: 101 Resp: 21618
 Ion Ratio Lower Upper
 101 100
 103 58.1 53.6 80.4

Manual Integrations
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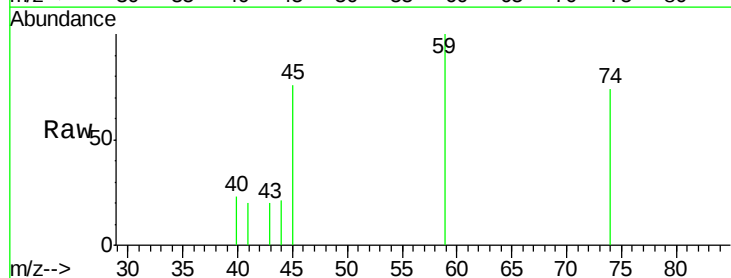
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



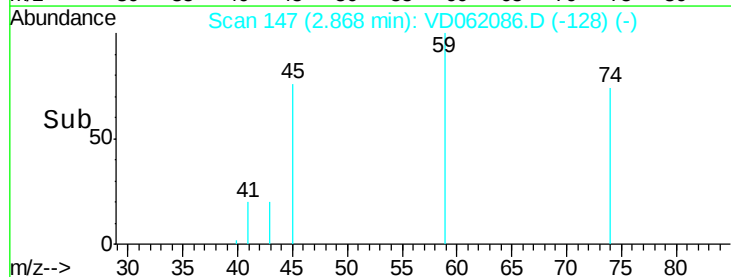
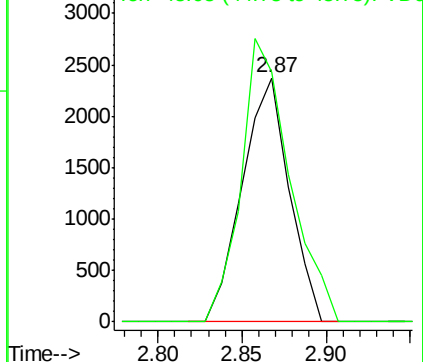
#8

Diethyl Ether
 Concen: 3.142 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion: 74 Resp: 4572
 Ion Ratio Lower Upper
 74 100
 45 102.4 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.358 ug/l

RT: 3.14 min Scan# 175

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

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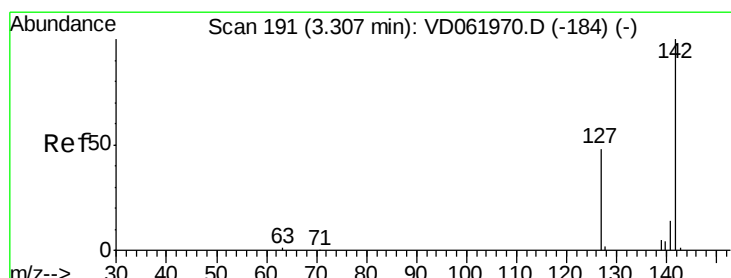
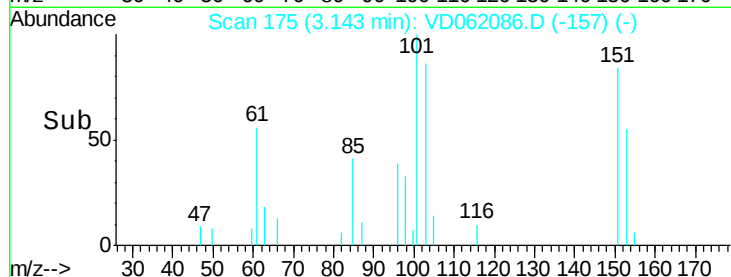
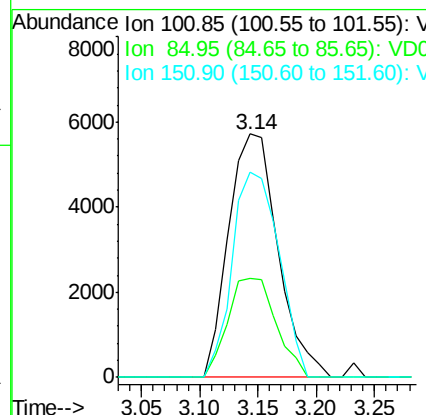
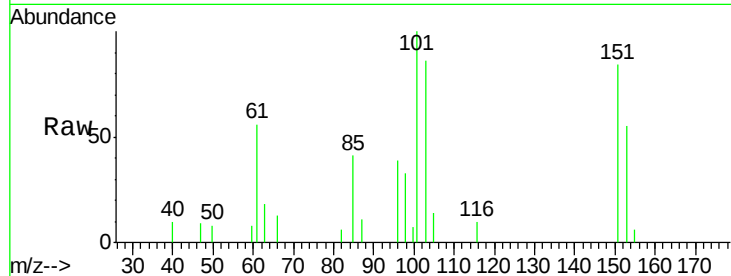
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	101	Resp:	16799
Ion Ratio	Lower	Upper	
101	100		
85	40.7	32.4	48.6
151	84.3	59.4	89.0

Manual Integrations
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5/2/2019 7:23:32 AM



#10

Methyl Iodide

Concen: 2.616 ug/l

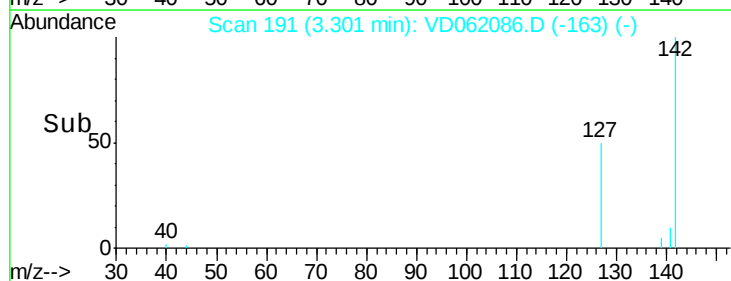
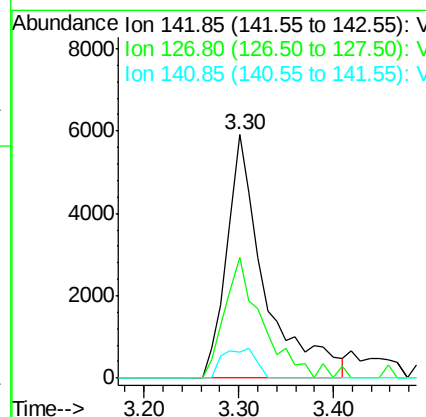
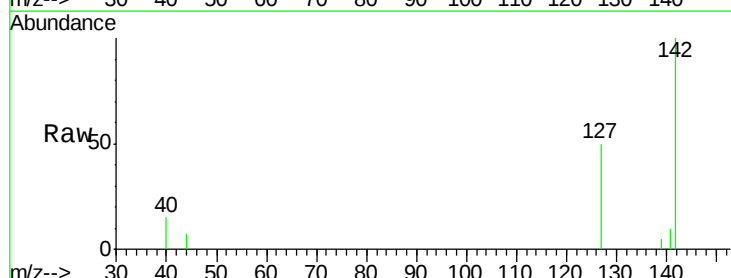
RT: 3.30 min Scan# 191

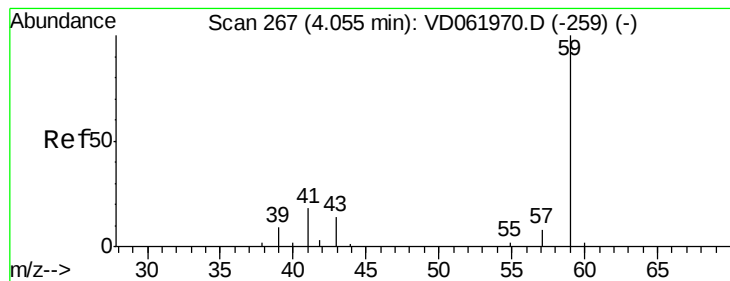
Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion:	142	Resp:	16340
Ion Ratio	Lower	Upper	
142	100		
127	49.8	38.8	58.2
141	10.5	11.4	17.0#





#11

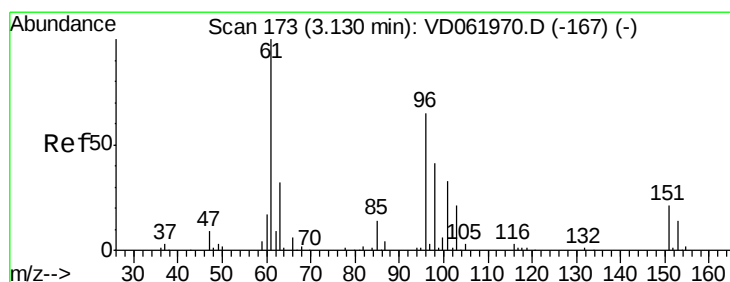
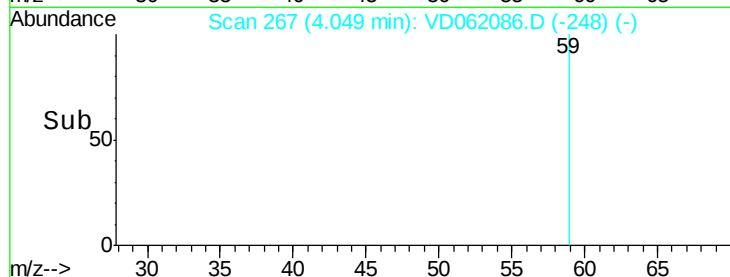
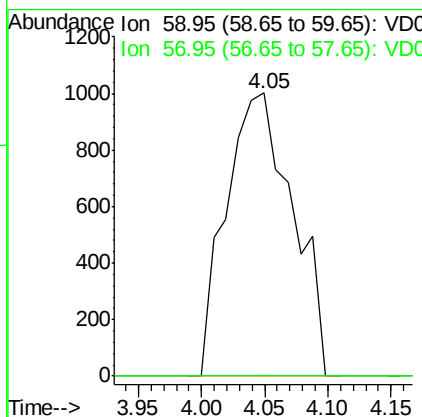
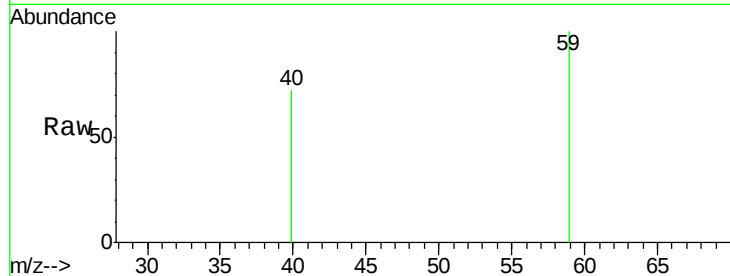
Tert butyl alcohol
 Concen: 15.887 ug/l
 RT: 4.05 min Scan# 267
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 59 Resp: 3668
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

Manual Integrations
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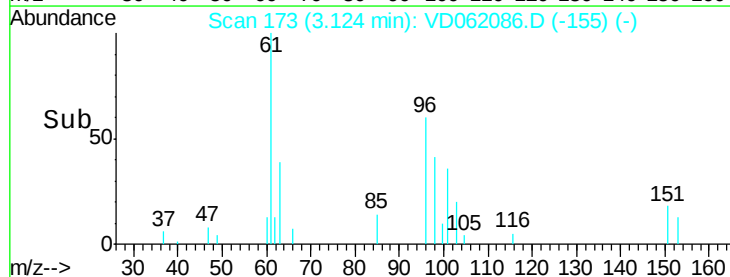
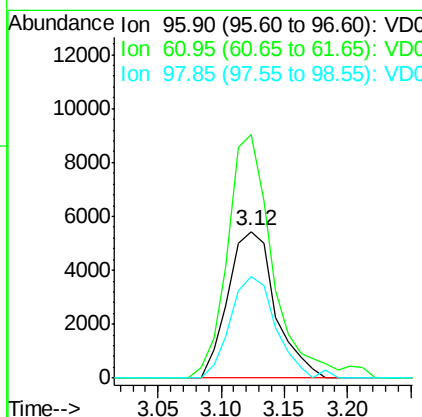
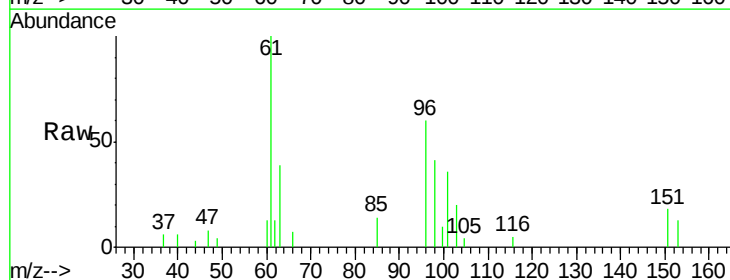
MMDadoda
 5/2/2019 7:23:32 AM

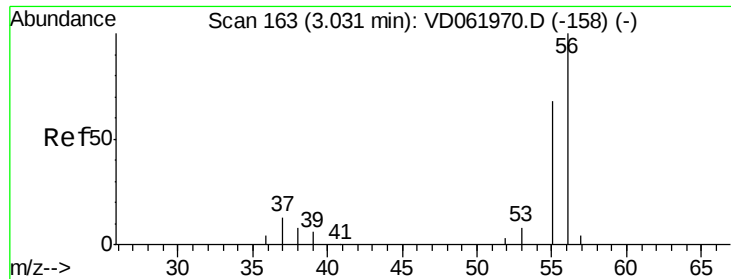


#12

1,1-Dichloroethene
 Concen: 3.305 ug/l
 RT: 3.12 min Scan# 173
 Delta R.T. -0.02 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion: 96 Resp: 14064
 Ion Ratio Lower Upper
 96 100
 61 166.0 129.8 194.8
 98 68.8 51.2 76.8





#13

Acrolein

Concen: 12.845 ug/l

RT: 3.03 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 56 Resp: 3077

Ion Ratio Lower Upper

56 100

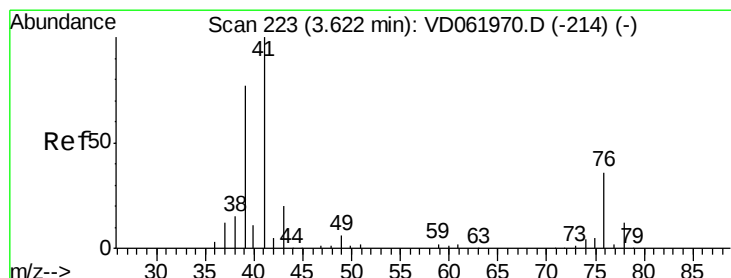
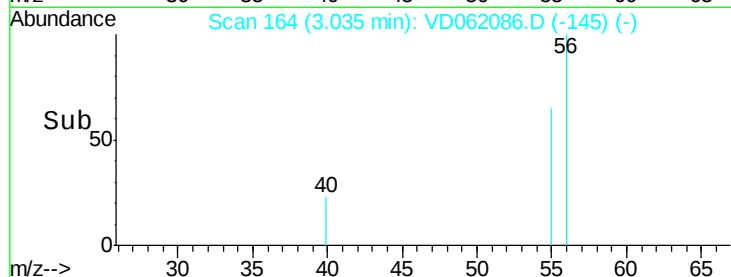
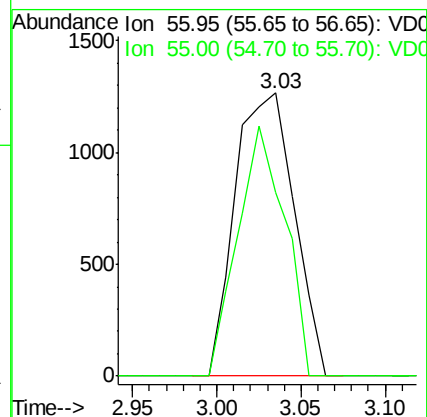
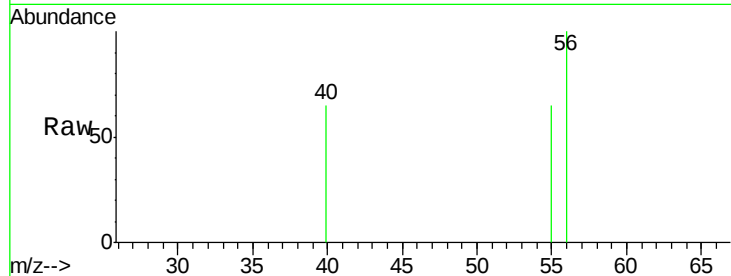
55 64.6 51.4 77.2

Manual Integrations

APPROVED

MMDadoda

5/2/2019 7:23:32 AM



#14

Allyl chloride

Concen: 2.683 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.03 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

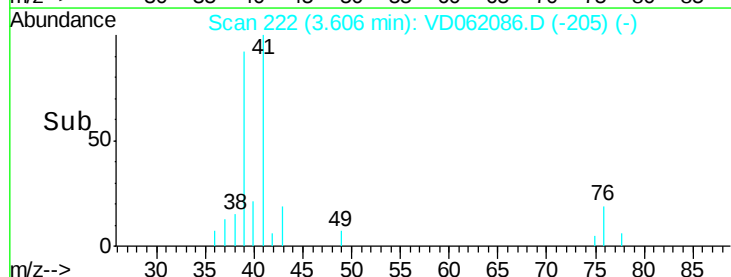
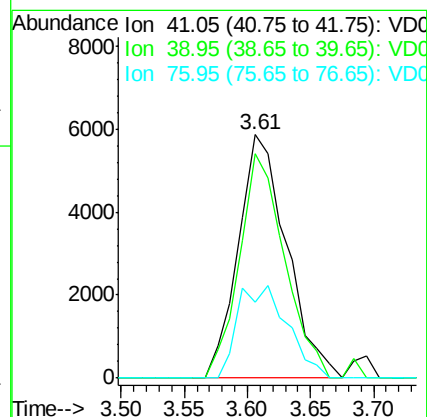
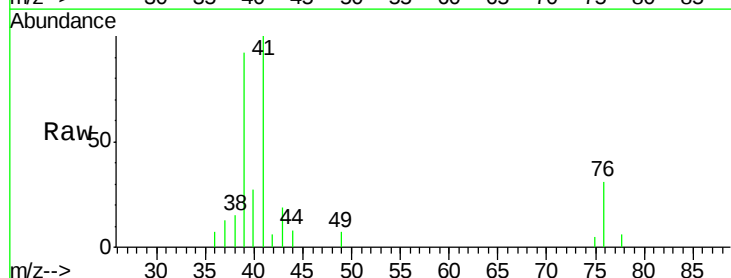
Tgt Ion: 41 Resp: 15592

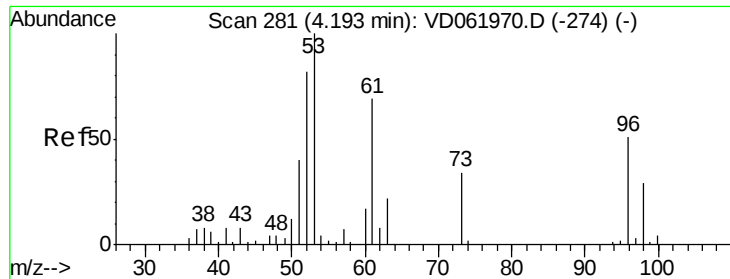
Ion Ratio Lower Upper

41 100

39 92.2 60.5 90.7#

76 31.2 31.8 47.8#





#15

Acrylonitrile

Concen: 14.917 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.03 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

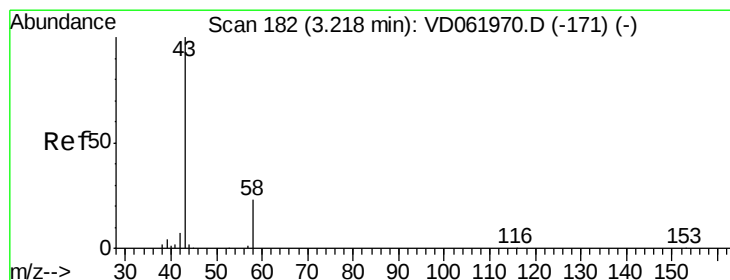
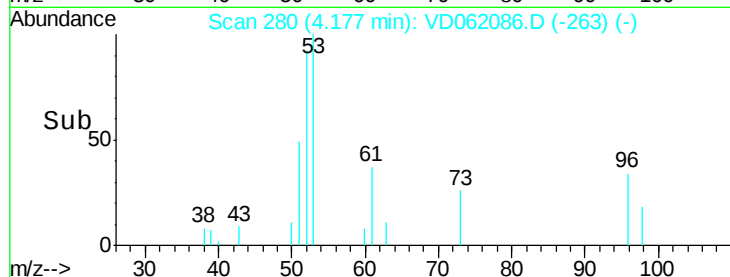
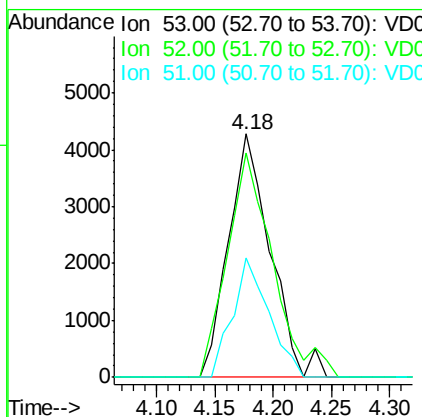
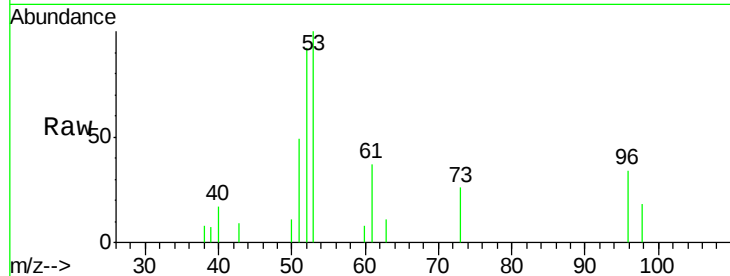
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	53	Resp:	10664
Ion Ratio	Lower	Upper	
53	100		
52	91.9	65.0	97.4
51	49.3	32.6	48.8#

Manual Integrations
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#16

Acetone

Concen: 17.271 ug/l

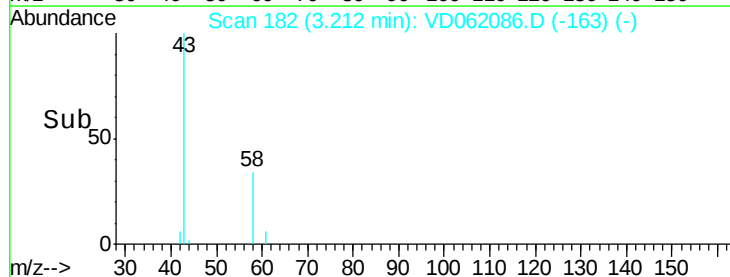
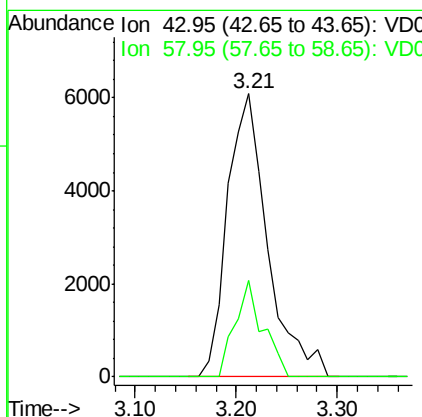
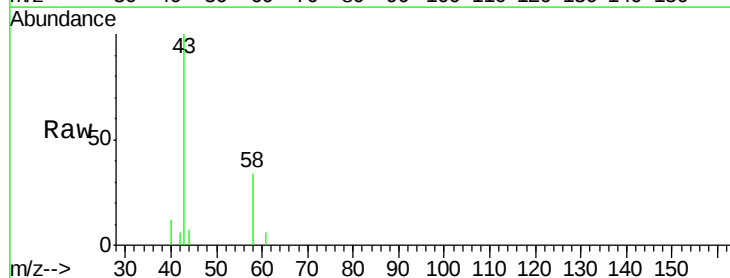
RT: 3.21 min Scan# 182

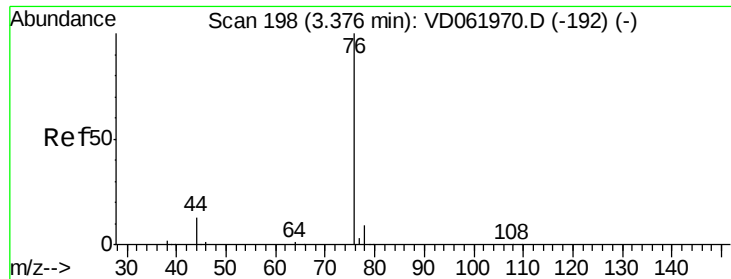
Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion:	43	Resp:	16851
Ion Ratio	Lower	Upper	
43	100		
58	34.0	19.9	29.9#





#17

Carbon Disulfide

Concen: 3.293 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 76 Resp: 40495

Ion Ratio Lower Upper

76 100

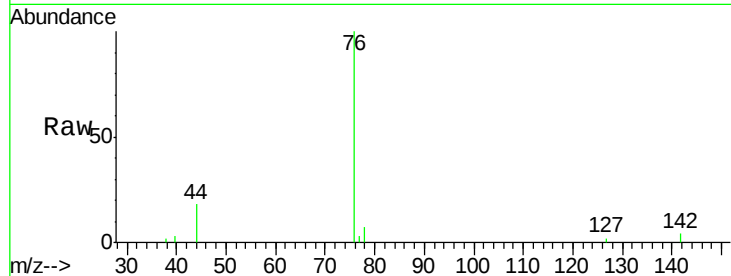
78 7.4 7.2 10.8

Manual Integrations

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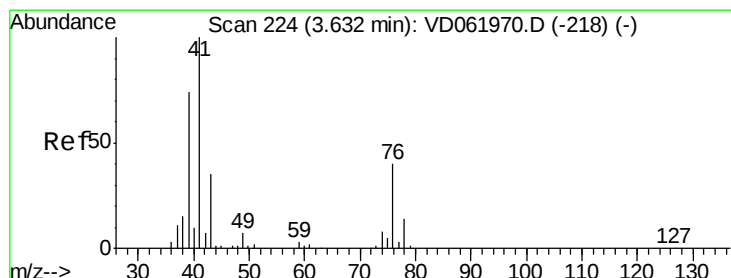
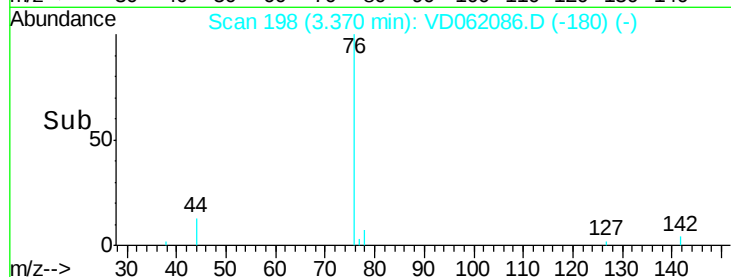
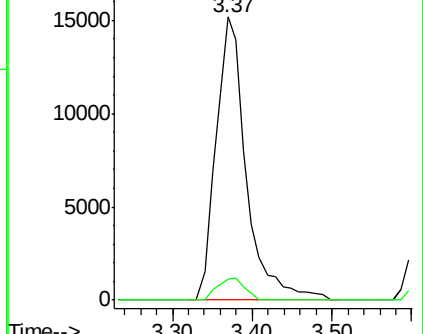
MMDadoda

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 4.380 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.02 min

Lab File: VD062086.D

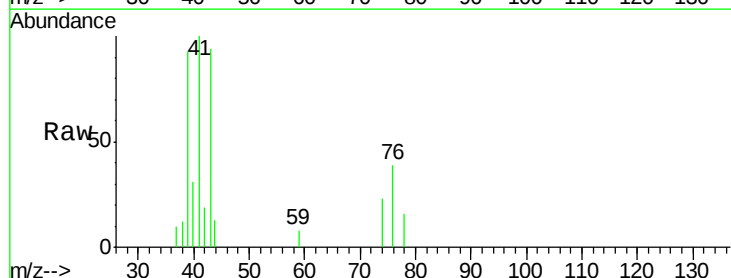
Acq: 30 Apr 2019 14:39

Tgt Ion: 43 Resp: 8599

Ion Ratio Lower Upper

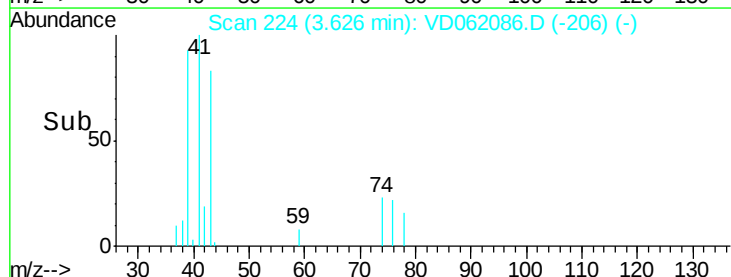
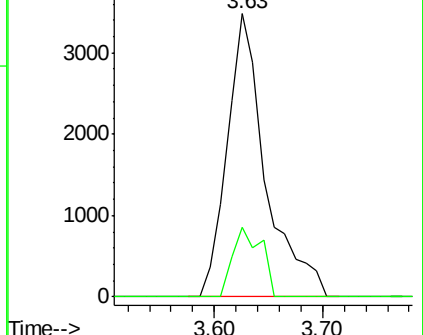
43 100

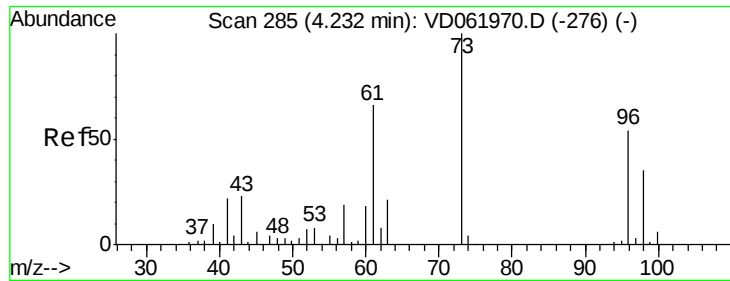
74 24.7 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





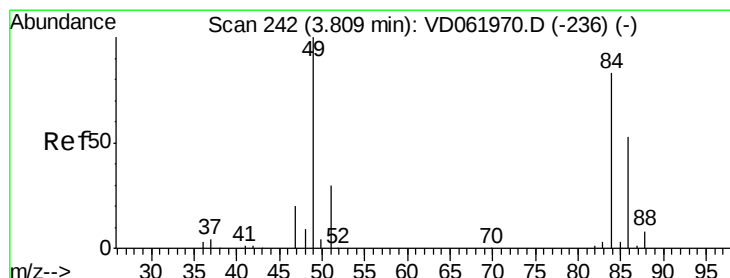
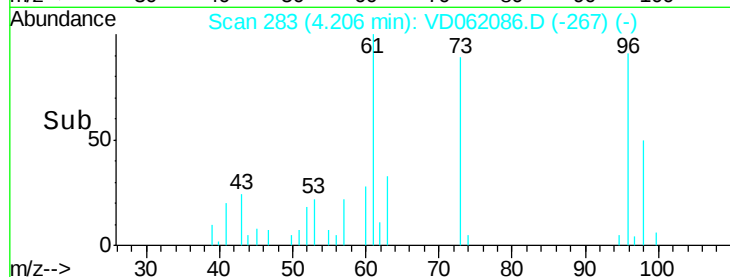
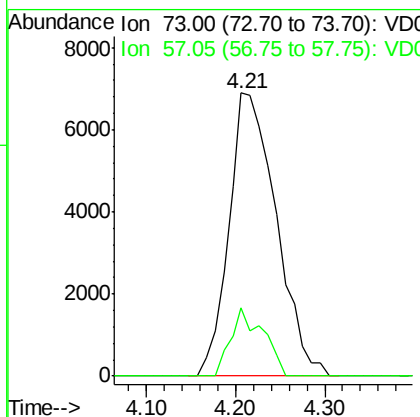
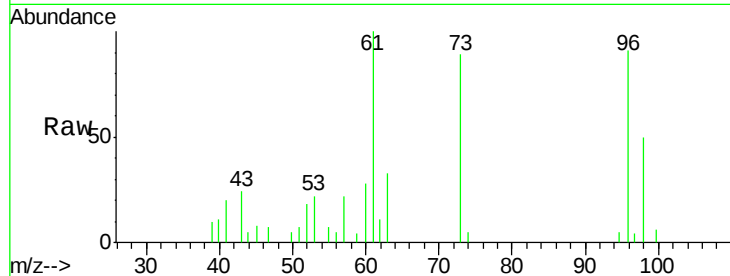
#19
Methvl tert-butvl Ether
Concen: 3.006 ug/l
RT: 4.21 min Scan# 283
Delta R.T. -0.04 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 73 Resp: 25383
Ion Ratio Lower Upper
73 100
57 24.2 16.3 24.5

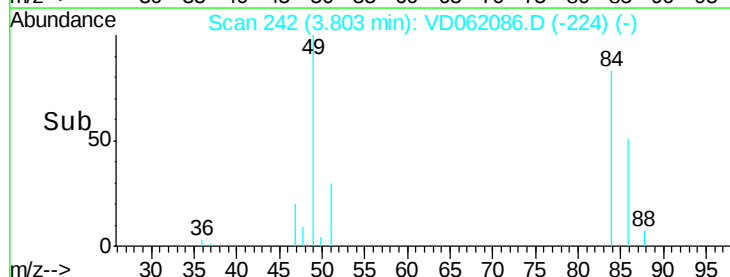
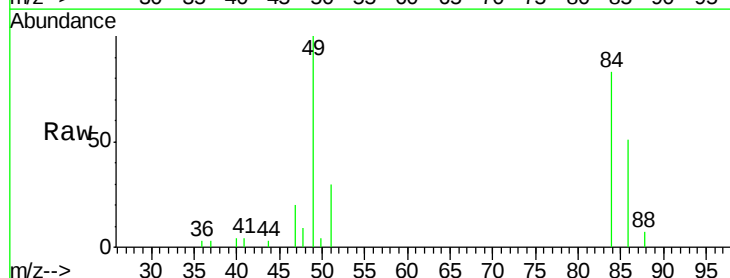
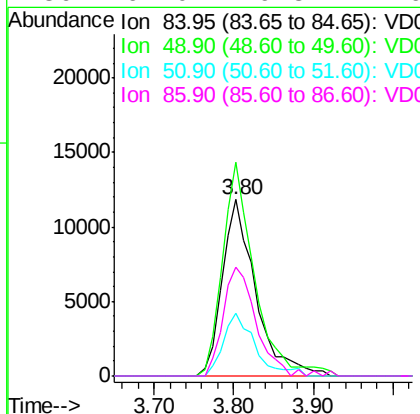
Manual Integrations
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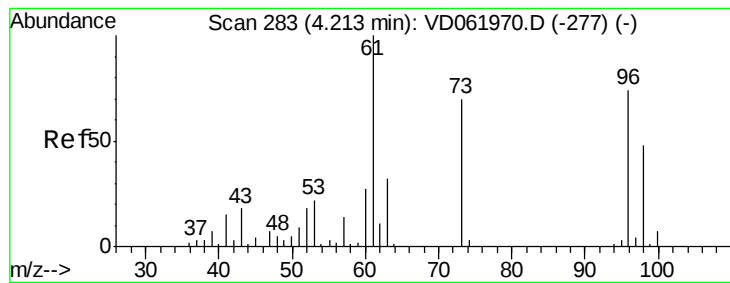
MMDadoda
5/2/2019 7:23:32 AM



#20
Methylene Chloride
Concen: 6.420 ug/l
RT: 3.80 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion: 84 Resp: 34724
Ion Ratio Lower Upper
84 100
49 121.2 94.0 141.0
51 35.9 29.0 43.4
86 62.0 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 3.516 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

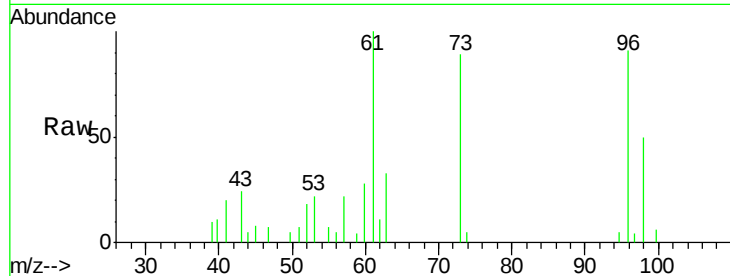
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

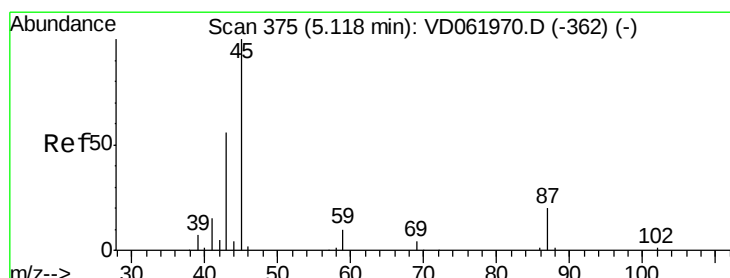
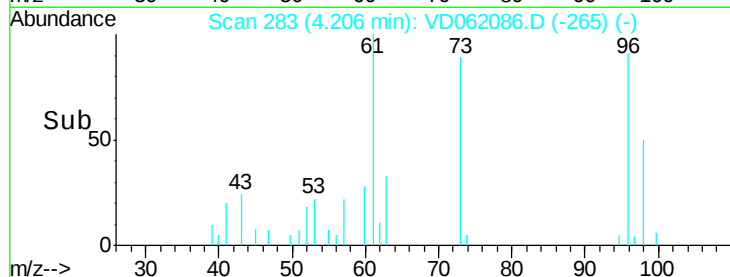
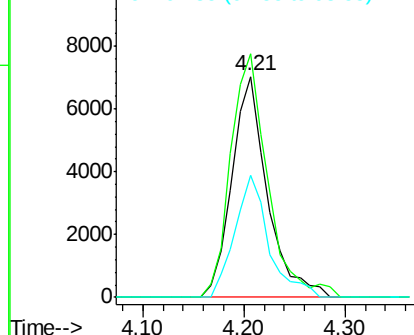
Tot Ion:	96	Resp:	17164
Ion	Ratio	Lower	Upper
96	100		
61	110.1	104.4	156.6
98	55.0	51.8	77.8

Manual Integrations
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Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 2.735 ug/l

RT: 5.09 min Scan# 373

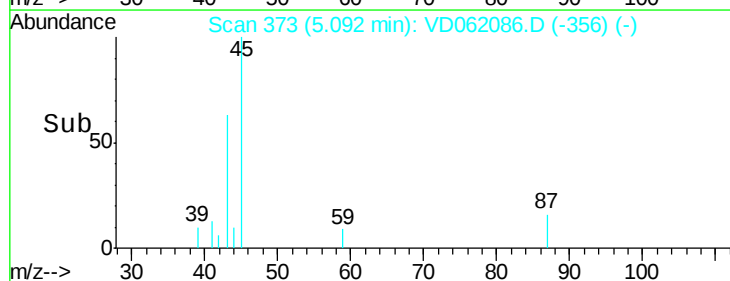
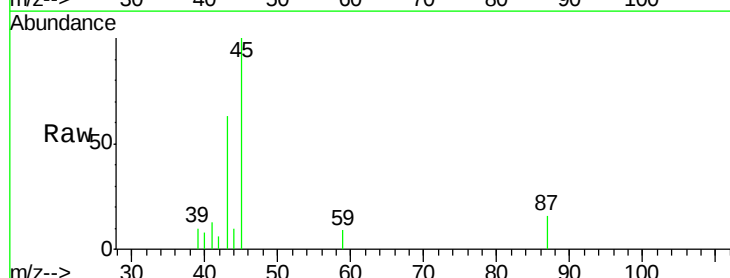
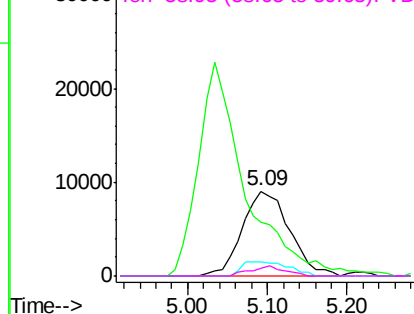
Delta R.T. -0.03 min

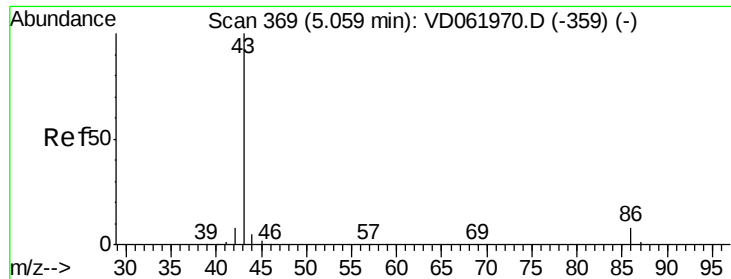
Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion:	45	Resp:	37103
Ion	Ratio	Lower	Upper
45	100		
43	63.1	46.2	69.2
87	16.3	15.9	23.9
59	8.9	7.9	11.9

Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 13.093 ug/l

RT: 5.03 min Scan# 367

Delta R.T. -0.03 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleID :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 92505

Ion Ratio Lower Upper

43 100

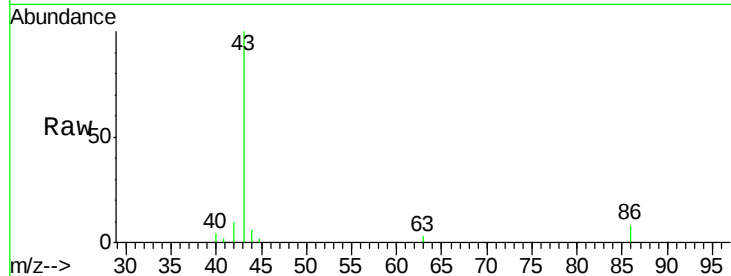
86 7.6 6.4 9.6

Manual Integrations

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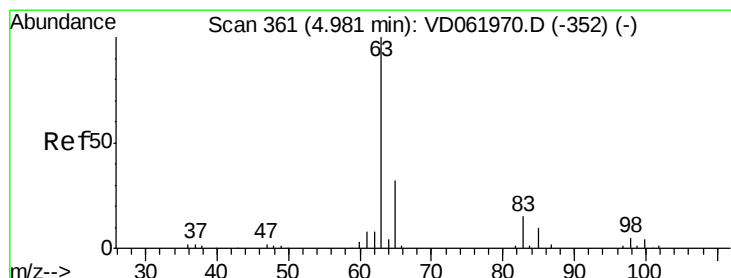
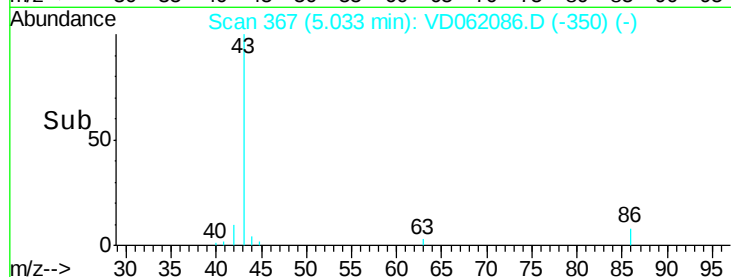
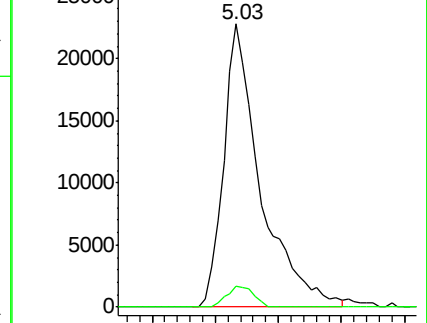
MMDadoda

5/2/2019 7:23:32 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 3.074 ug/l

RT: 4.96 min Scan# 360

Delta R.T. -0.03 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

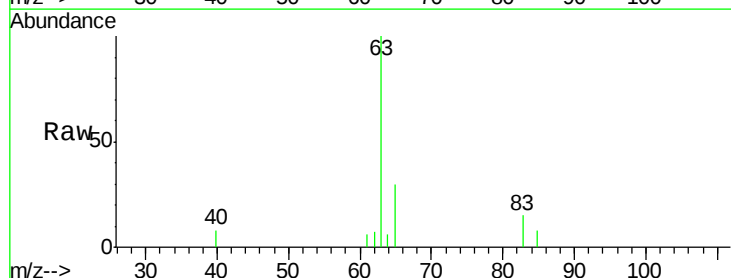
Tgt Ion: 63 Resp: 25204

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

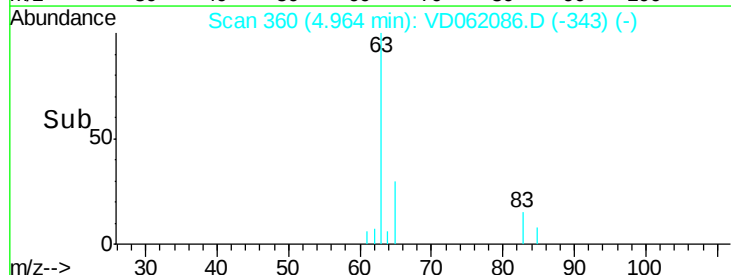
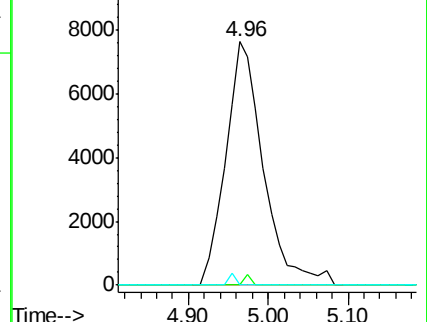
100 0.0 1.8 5.5#

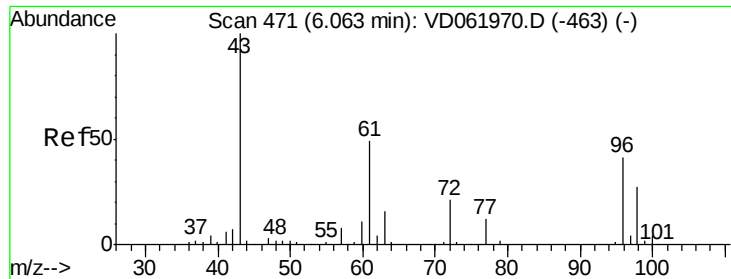


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 14.411 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.03 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 17047

Ion Ratio Lower Upper

43 100

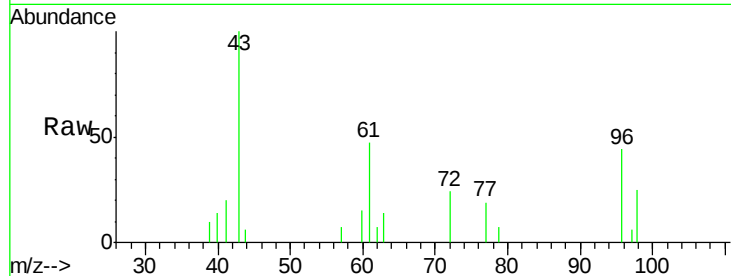
72 24.4 16.2 24.4#

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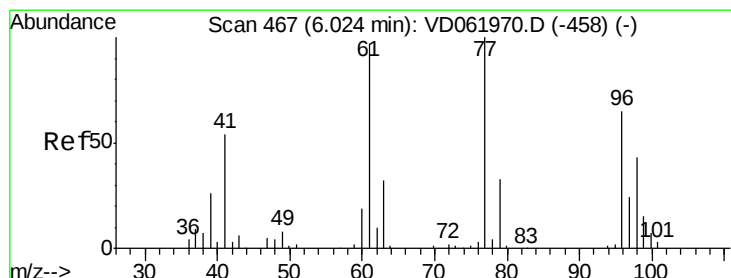
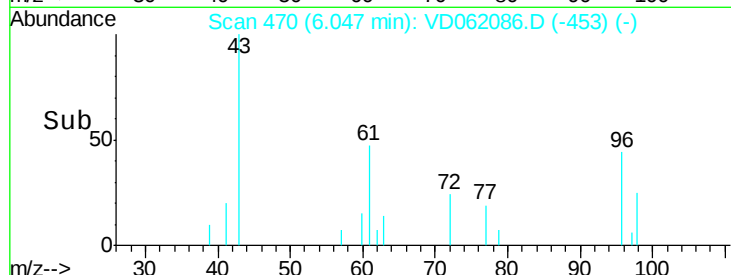
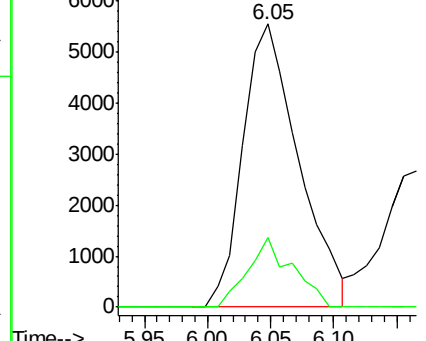
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.876 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.02 min

Lab File: VD062086.D

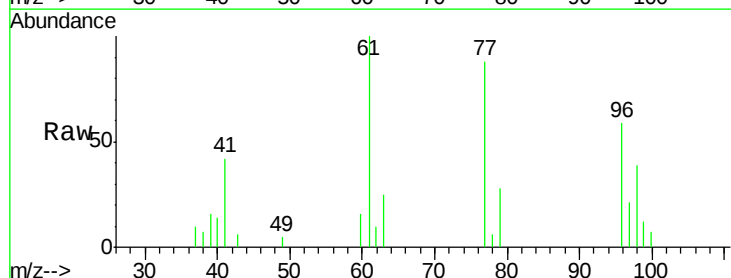
Acq: 30 Apr 2019 14:39

Tgt Ion: 77 Resp: 20577

Ion Ratio Lower Upper

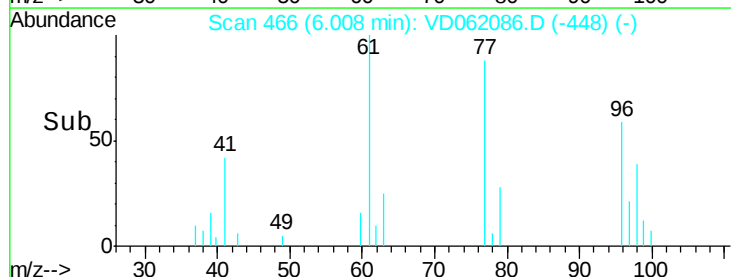
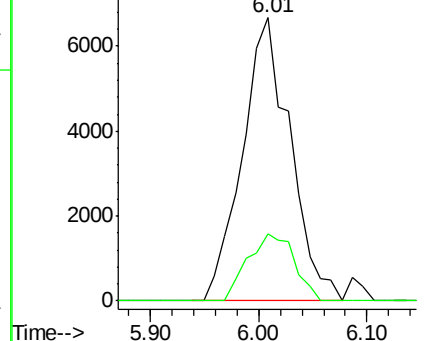
77 100

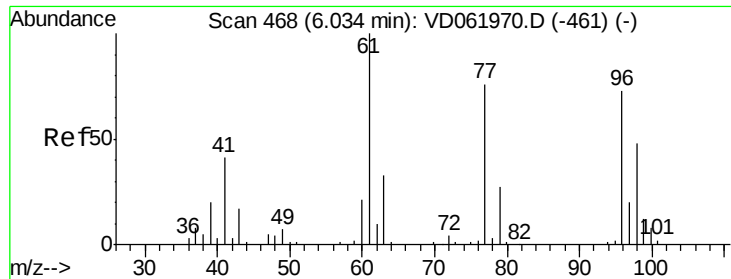
97 23.8 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 2.978 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

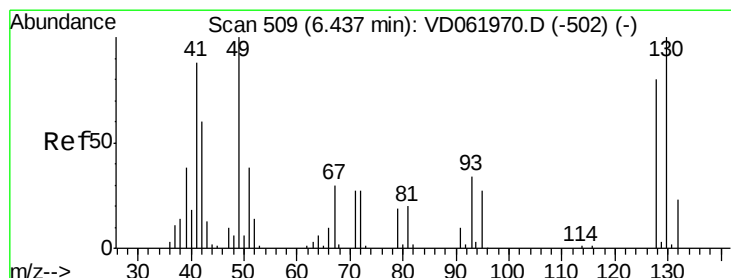
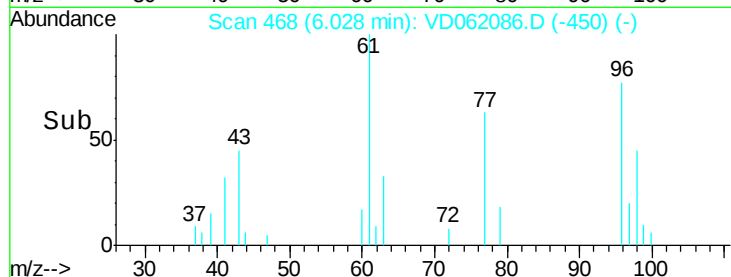
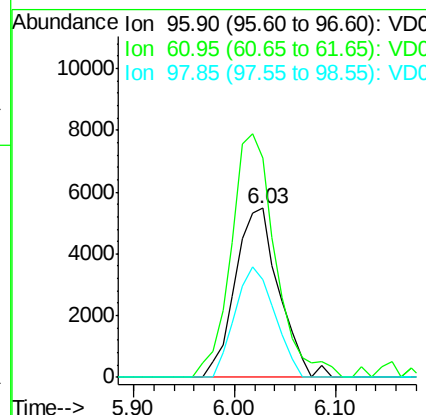
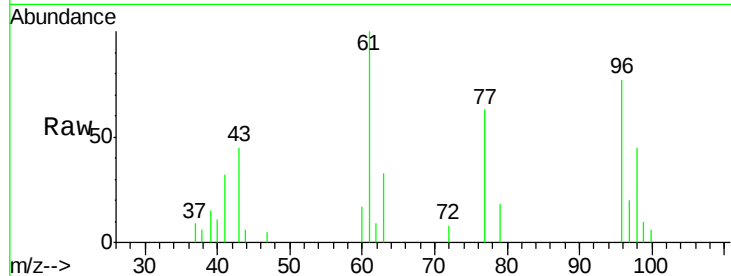
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		16542		
61	129.6	0.0	279.8		
98	57.9	0.0	136.0		

Manual Integrations
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#28

Bromochloromethane

Concen: 2.591 ug/l

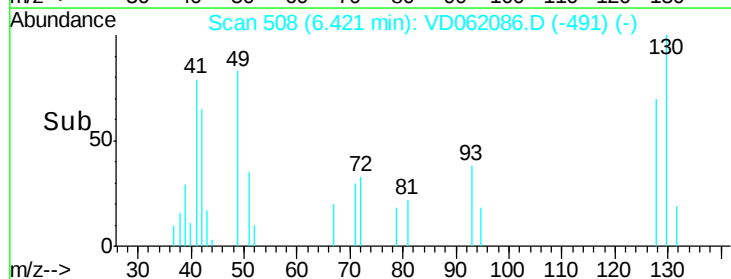
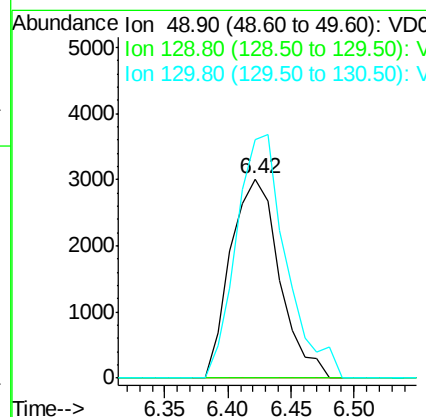
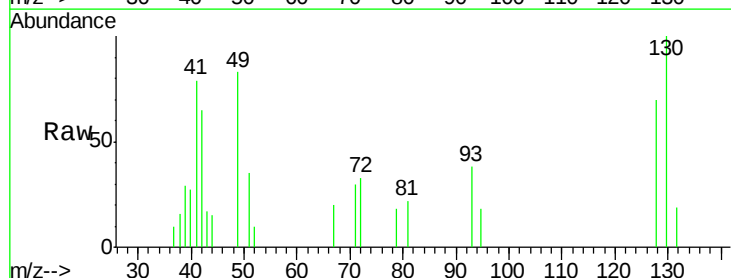
RT: 6.42 min Scan# 508

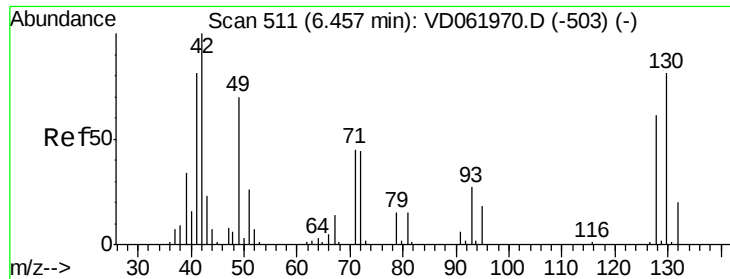
Delta R.T. -0.03 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		8130		
129	0.0	0.0	6.6		
130	120.1	86.7	130.1		





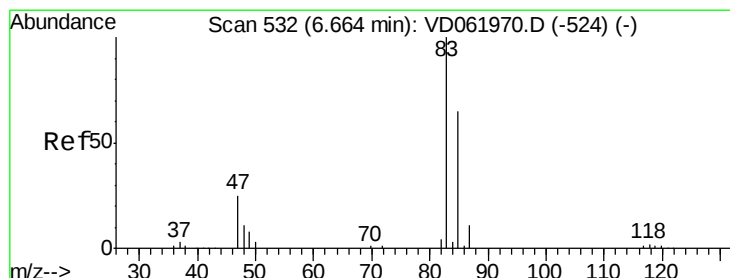
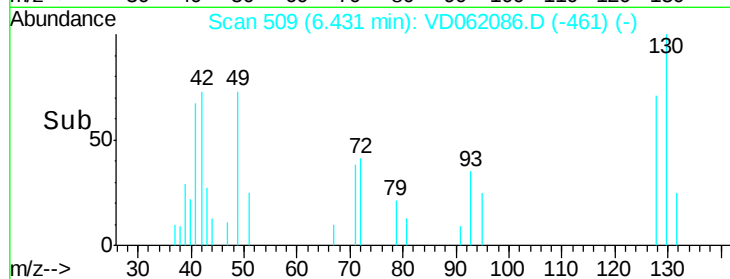
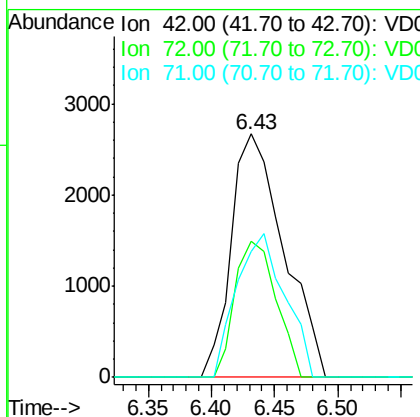
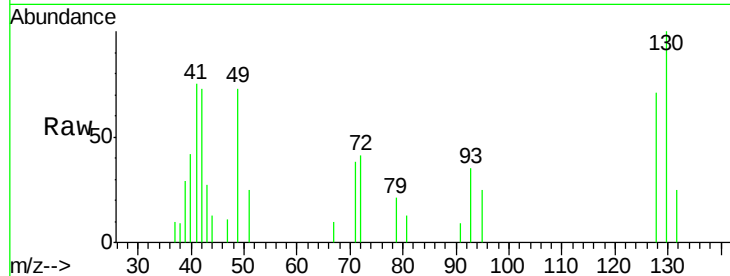
#29
Tetrahydrofuran
Concen: 13.214 ug/l
RT: 6.43 min Scan# 509
Delta R.T. -0.03 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 42 Resp: 7702
Ion Ratio Lower Upper
42 100
72 43.8 37.8 56.6
71 54.5 36.7 55.1

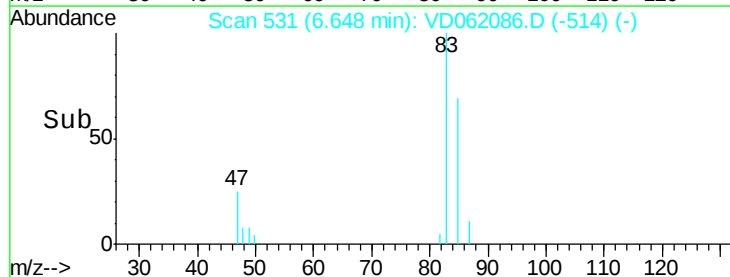
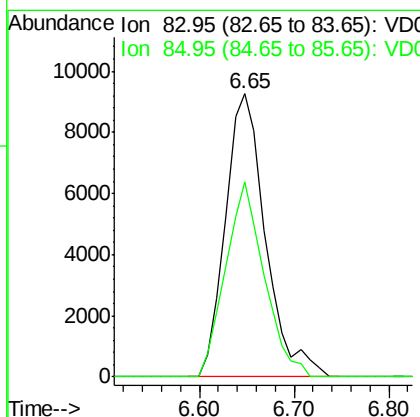
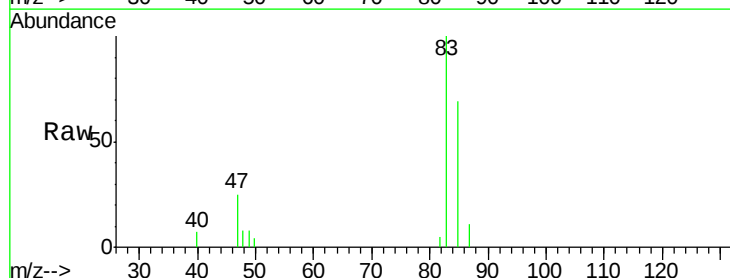
Manual Integrations
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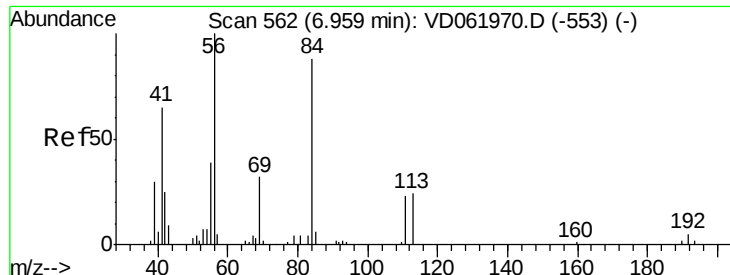
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#30
Chloroform
Concen: 2.908 ug/l
RT: 6.65 min Scan# 531
Delta R.T. -0.03 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion: 83 Resp: 27082
Ion Ratio Lower Upper
83 100
85 69.1 51.7 77.5





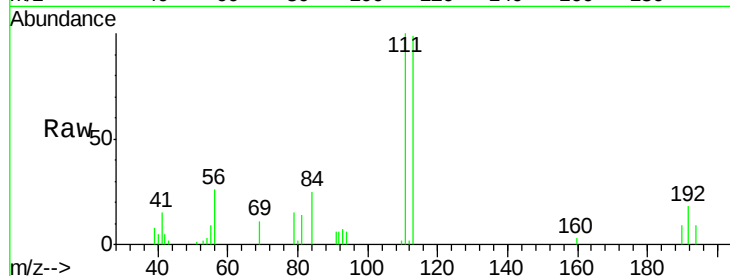
#31
Cyclohexane
Concen: 3.131 ug/l
RT: 6.94 min Scan# 561
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

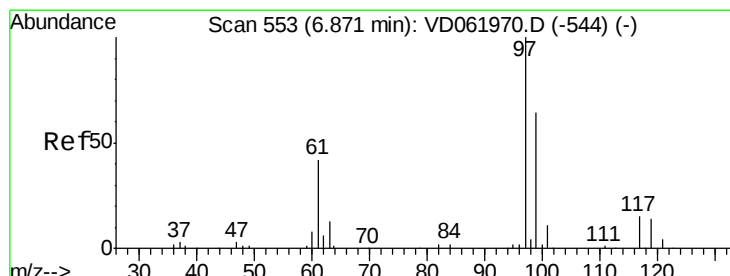
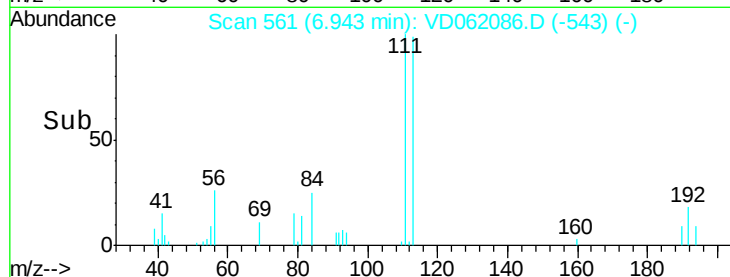
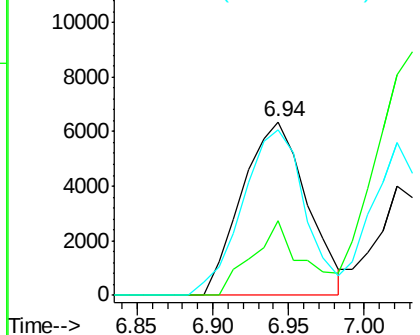
Tot Ion	Ratio	Lower	Upper
56	100		
69	42.7	25.8	38.6#
84	95.6	72.2	108.4

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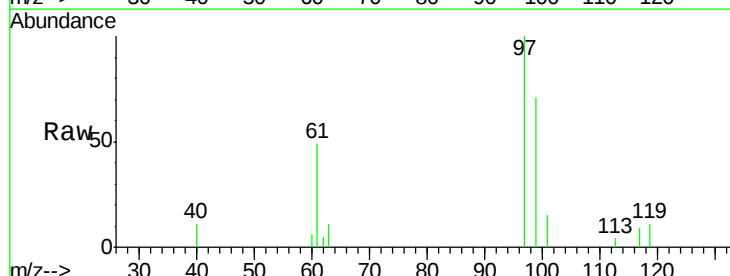


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

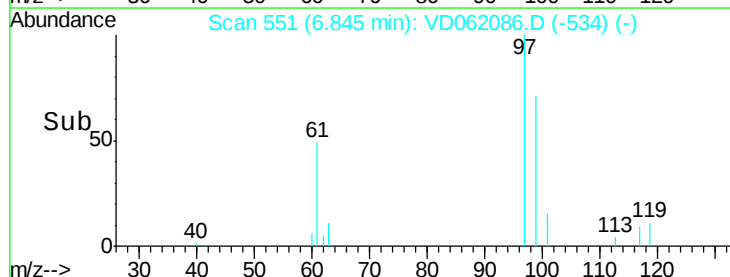
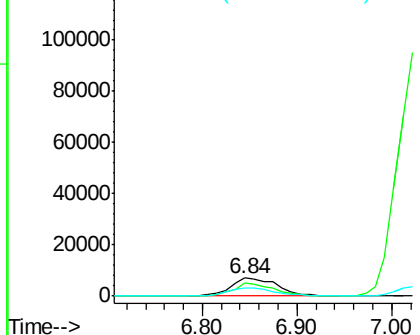


#32
1,1,1-Trichloroethane
Concen: 2.948 ug/l
RT: 6.84 min Scan# 551
Delta R.T. -0.03 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	70.9	52.2	78.2
61	48.6	32.4	48.6#



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 57.392 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 65 Resp: 234518

Ion Ratio Lower Upper

65 100

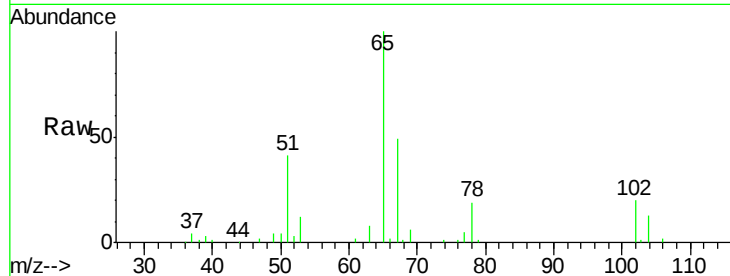
67 49.1 0.0 98.0

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

100000

80000

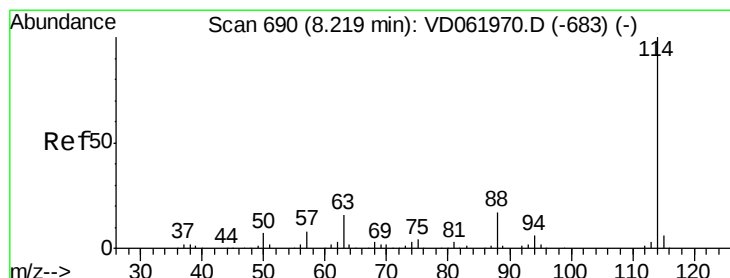
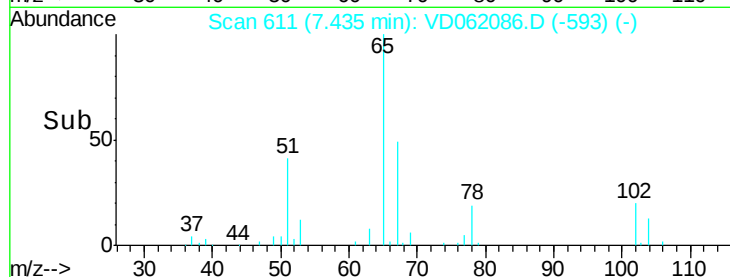
60000

40000

20000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 689

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

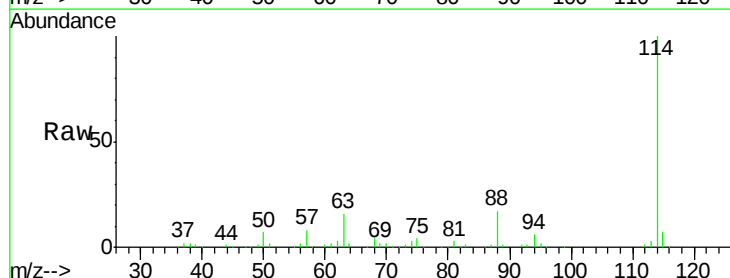
Tgt Ion:114 Resp: 824474

Ion Ratio Lower Upper

114 100

63 15.9 0.0 32.4

88 16.9 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.20

400000

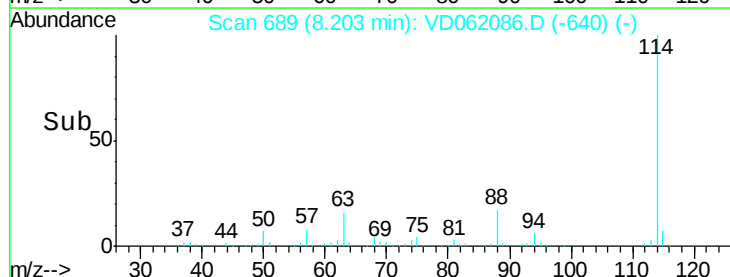
300000

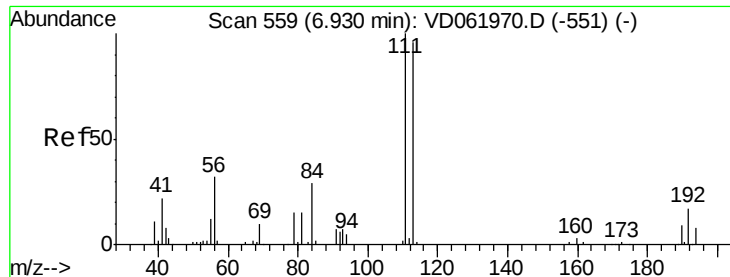
200000

100000

0

Time--> 8.00 8.20 8.40





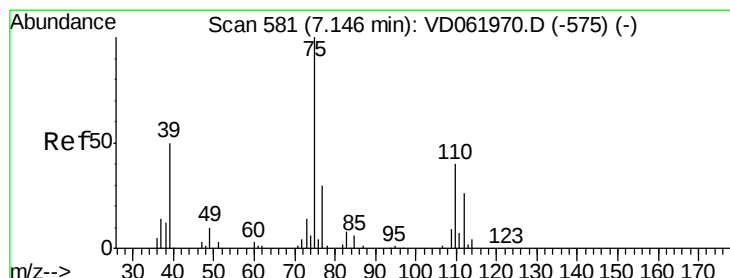
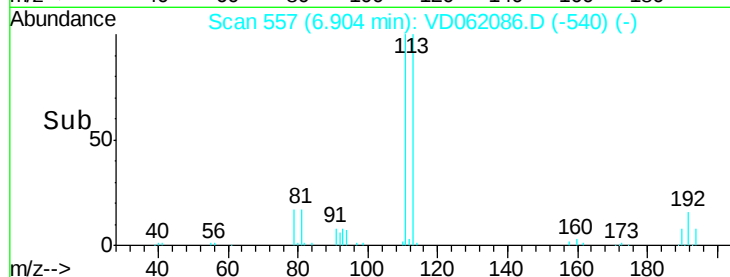
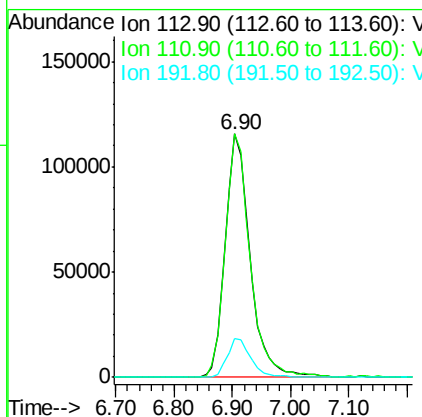
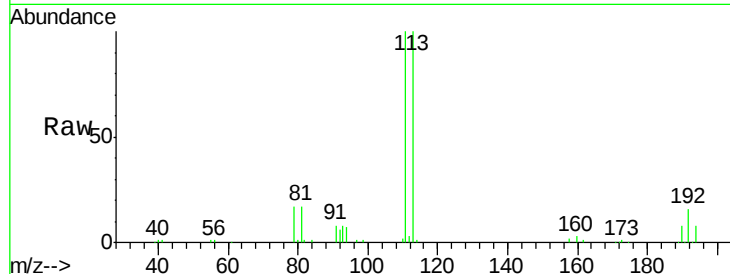
#35
Dibromofluoromethane
Concen: 60.329 ug/l
RT: 6.90 min Scan# 557
Delta R.T. -0.03 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	343999		
111	100.0	78.5	117.7	
192	16.0	13.0	19.4	

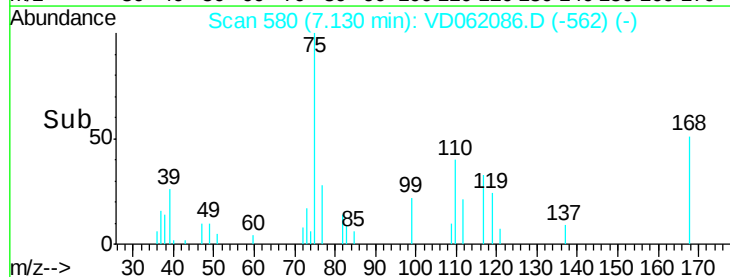
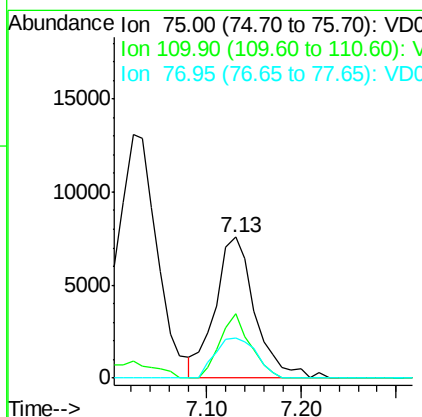
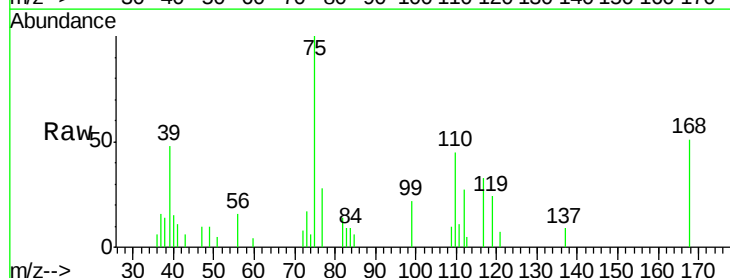
Manual Integrations
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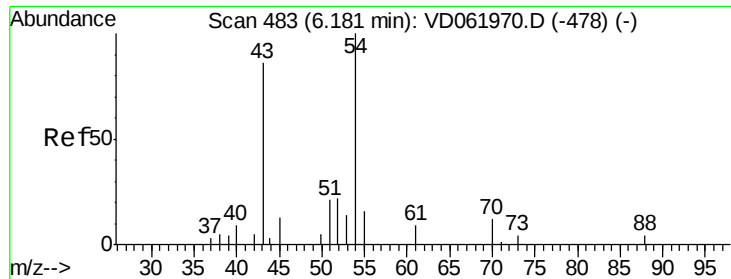
MMDadoda
5/2/2019 7:23:32 AM



#36
1,1-Dichloropropene
Concen: 3.434 ug/l
RT: 7.13 min Scan# 580
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22060		
110	45.3	19.1	57.1	
77	28.3	25.6	38.4	





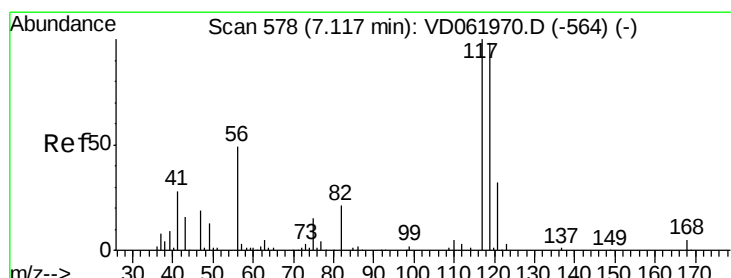
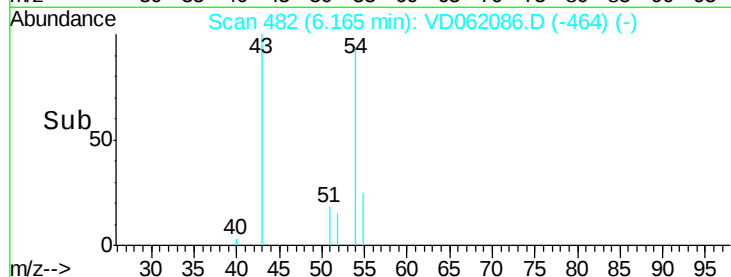
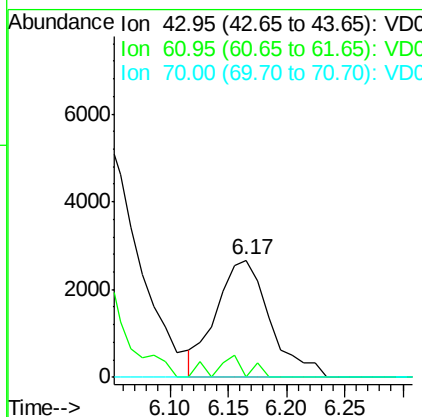
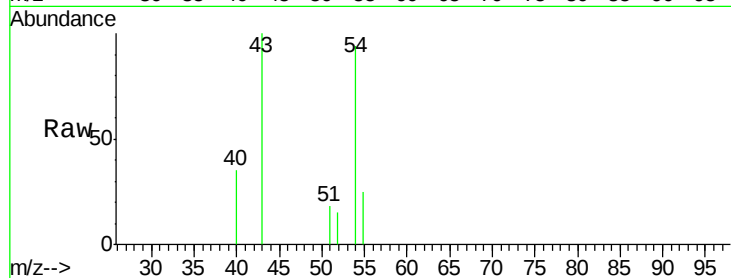
#37
Ethyl Acetate
Concen: 3.137 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.7	22.1#
70	0.0	7.8	11.6#

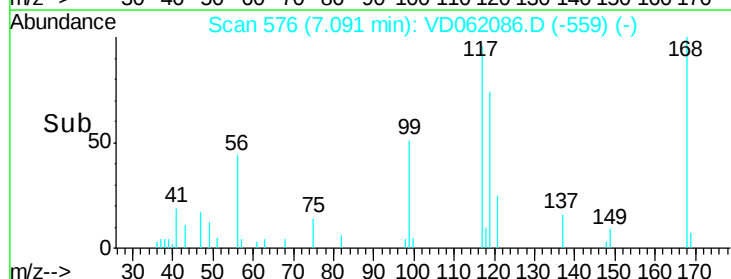
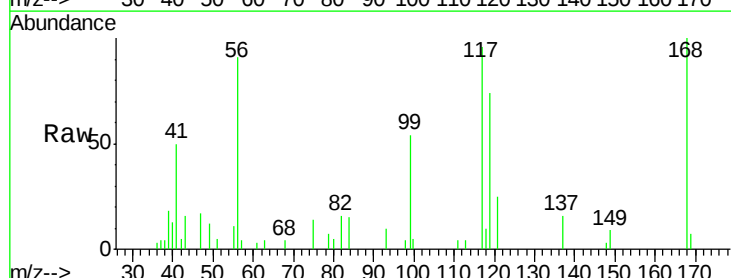
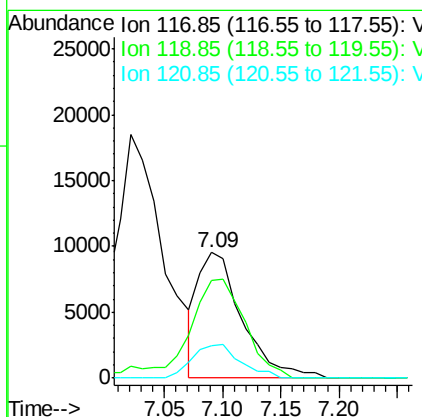
Manual Integrations
APPROVED

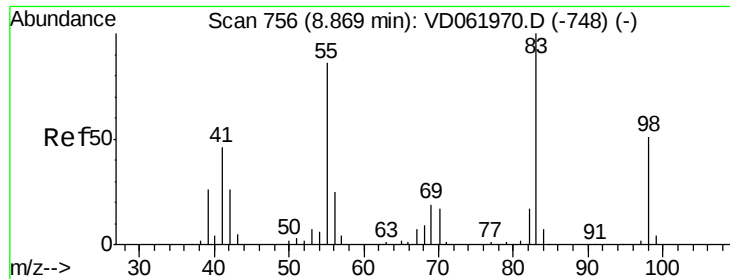
MMDadoda
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#38
Carbon Tetrachloride
Concen: 3.060 ug/l
RT: 7.09 min Scan# 576
Delta R.T. -0.03 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	77.7	75.8	113.8
121	25.9	25.9	38.9





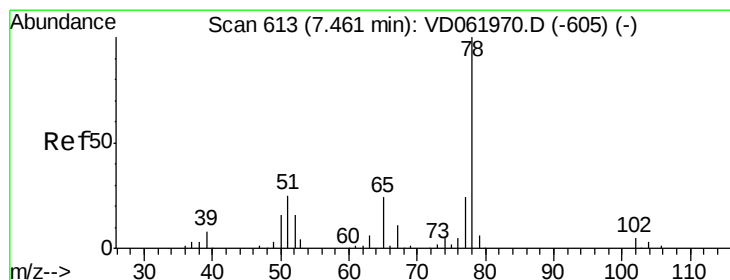
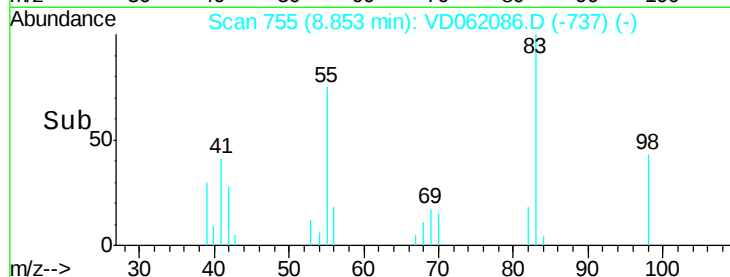
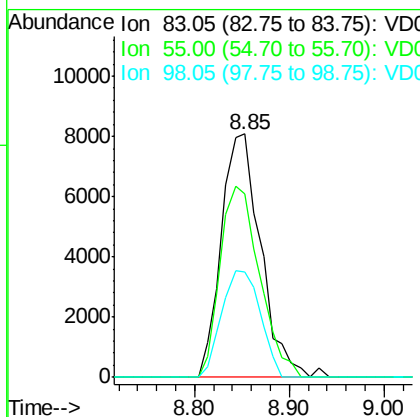
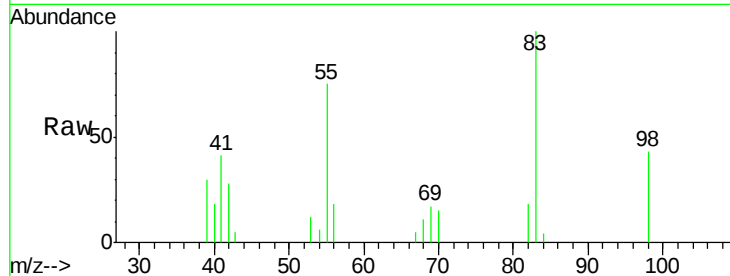
#39
Methvlcvclohexane
Concen: 3.688 ug/l
RT: 8.85 min Scan# 755
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	83	Resp	23376
Ion Ratio	Lower	Upper	
83	100		
55	75.2	68.2	102.4
98	43.1	38.2	57.4

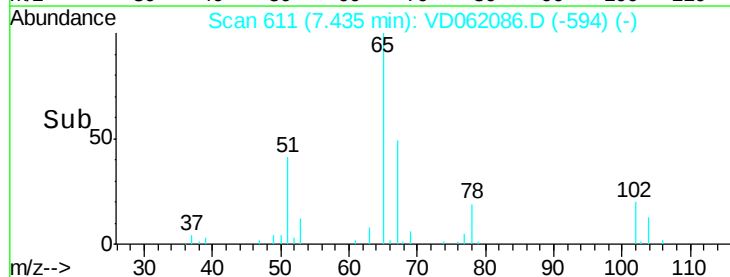
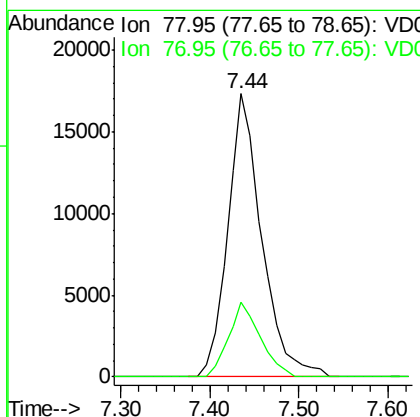
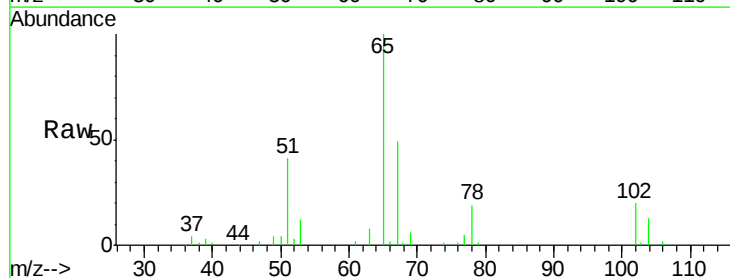
Manual Integrations
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#40
Benzene
Concen: 2.902 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.03 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	78	Resp	46148
Ion Ratio	Lower	Upper	
78	100		
77	26.6	19.7	29.5





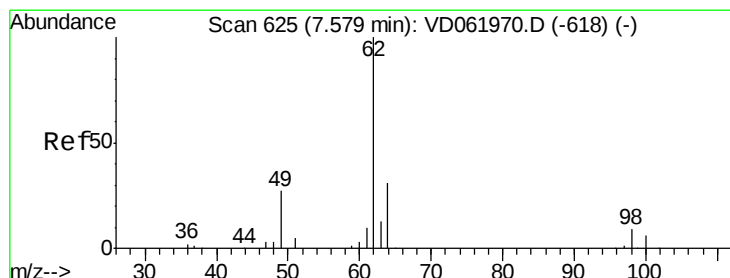
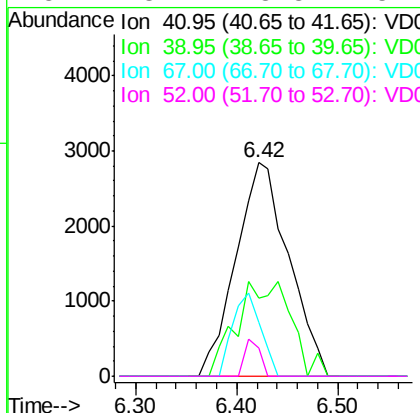
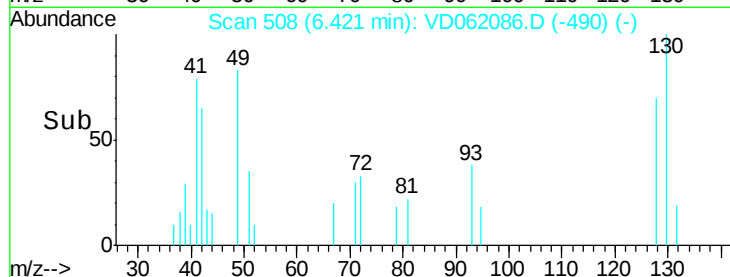
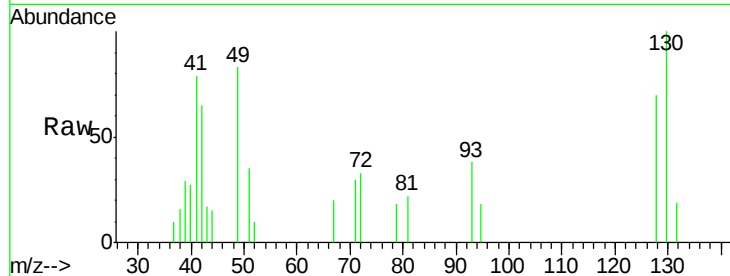
#41
Methacrylonitrile
Concen: 3.241 ug/l
RT: 6.42 min Scan# 508
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	41	Resp:	10350
Ion Ratio	Lower	Upper	
41	100		
39	36.6	34.1	51.1
67	25.0	23.8	35.6
52	13.1	8.8	13.2

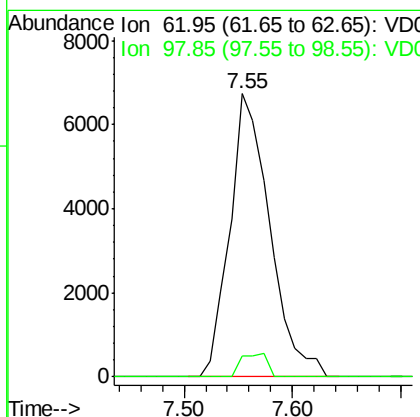
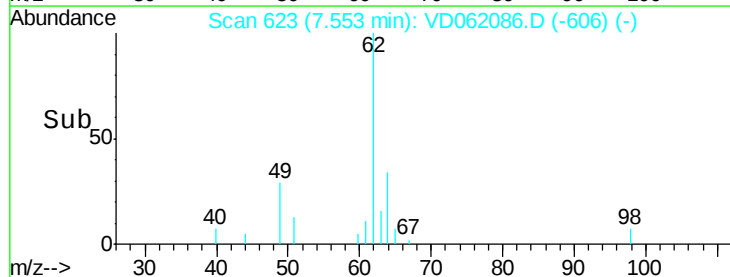
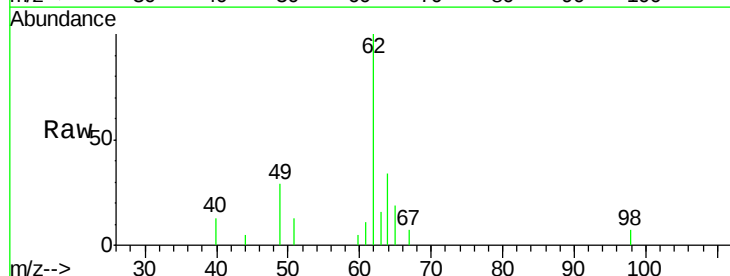
Manual Integrations
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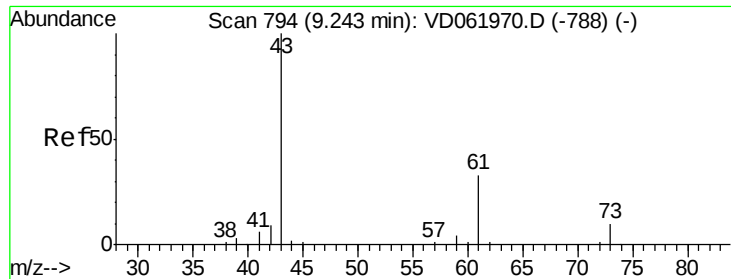
MMDadoda
5/2/2019 7:23:32 AM



#42
1,2-Dichloroethane
Concen: 3.218 ug/l
RT: 7.55 min Scan# 623
Delta R.T. -0.03 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion:	62	Resp:	17378
Ion Ratio	Lower	Upper	
62	100		
98	7.4	0.0	17.8





#43

Isopropyl Acetate

Concen: 3.081 ug/l

RT: 9.22 min Scan# 792

Delta R.T. -0.03 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

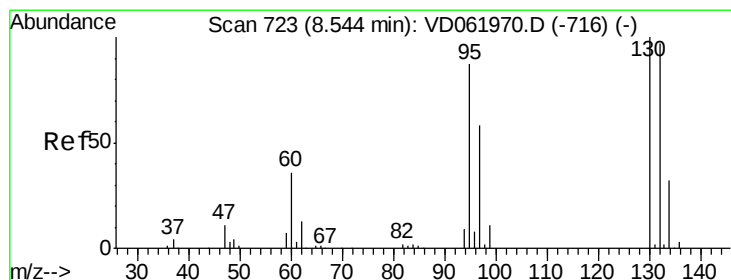
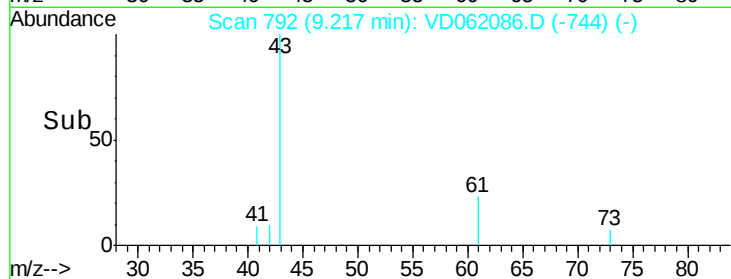
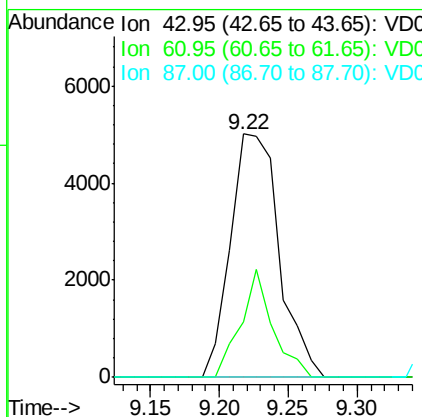
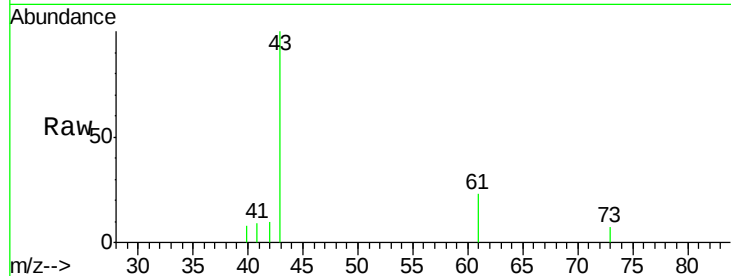
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	43	Resp:	12322
Ion	Ratio	Lower	Upper
43	100		
61	22.8	25.1	37.7#
87	0.0	0.0	0.0

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#44

Trichloroethene

Concen: 3.174 ug/l

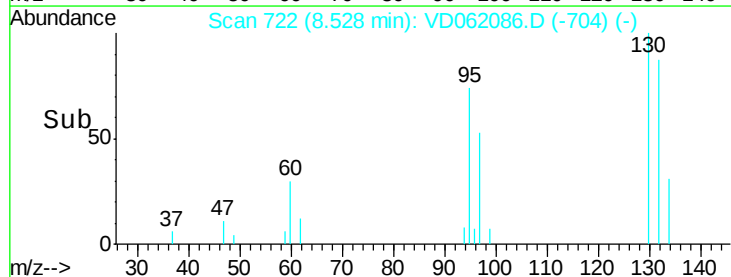
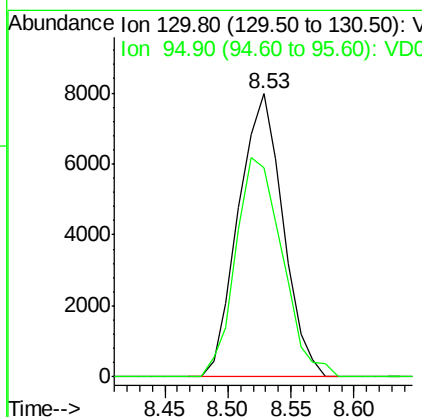
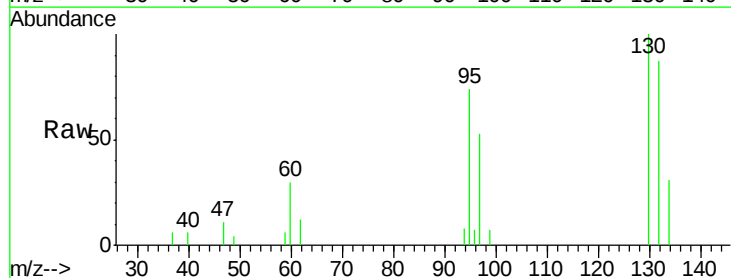
RT: 8.53 min Scan# 722

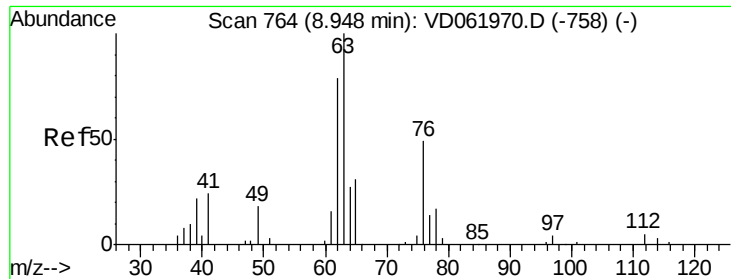
Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion:	130	Resp:	19568
Ion	Ratio	Lower	Upper
130	100		
95	74.1	0.0	174.0





#45

1,2-Dichloropropane

Concen: 2.845 ug/l

RT: 8.92 min Scan# 762

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 63 Resp: 11479

Ion Ratio Lower Upper

63 100

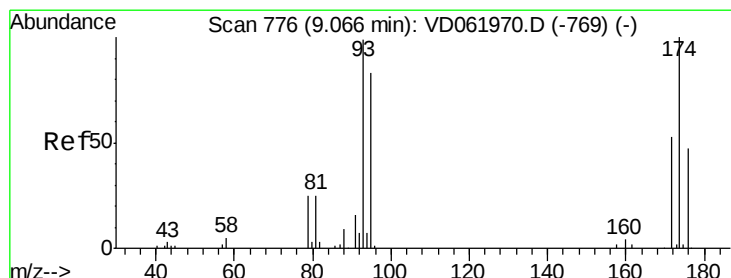
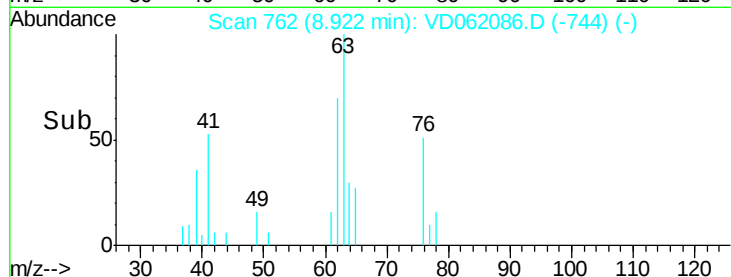
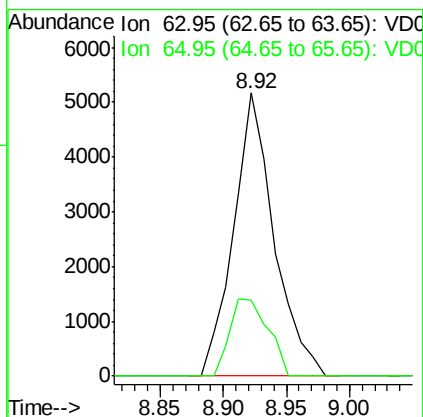
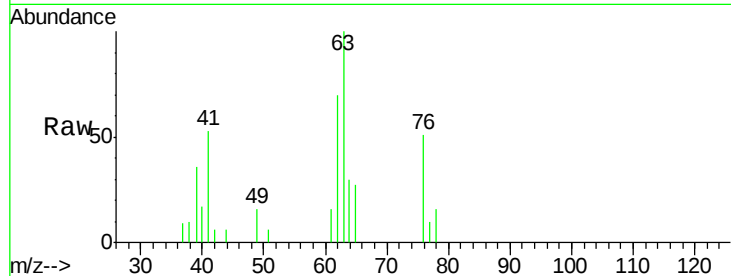
65 26.9 23.8 35.6

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#46

Dibromomethane

Concen: 2.787 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

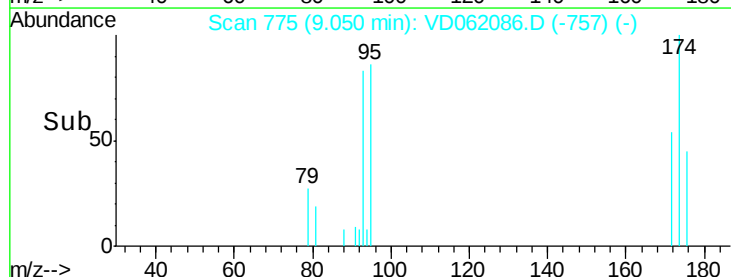
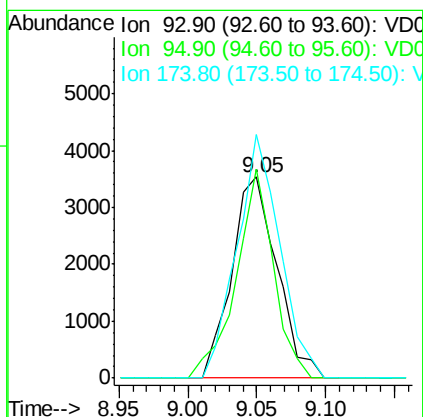
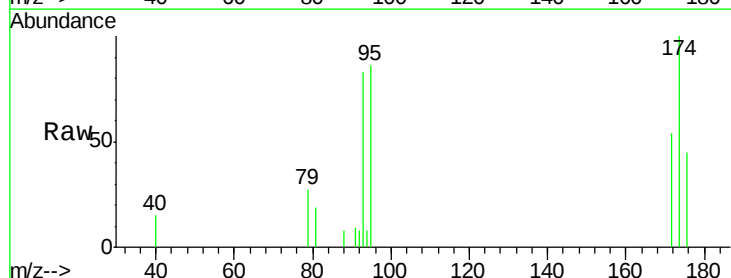
Tgt Ion: 93 Resp: 8091

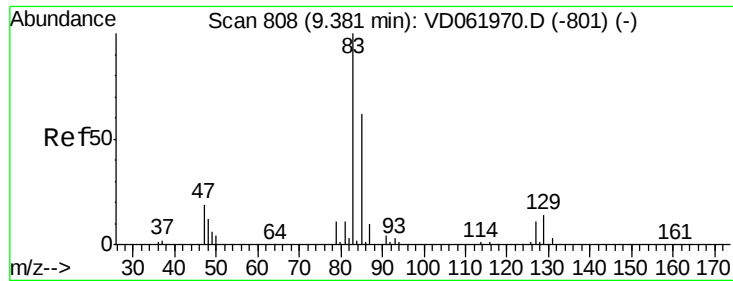
Ion Ratio Lower Upper

93 100

95 103.9 64.8 97.2#

174 121.2 79.3 118.9#





#47

Bromodichloromethane

Concen: 3.029 ug/l

RT: 9.36 min Scan# 807

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

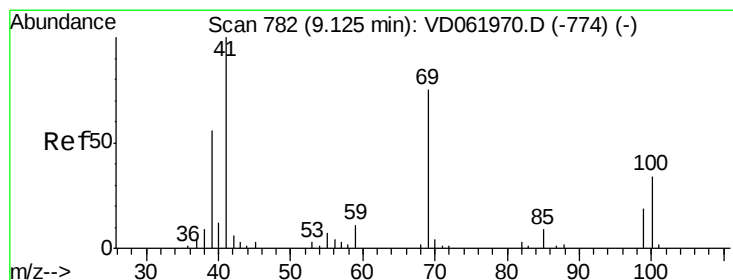
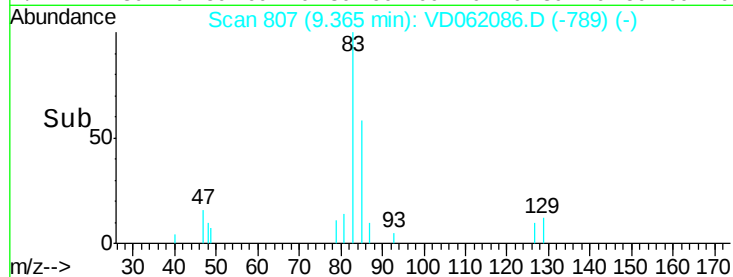
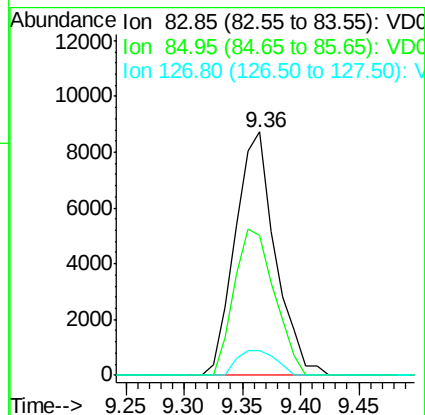
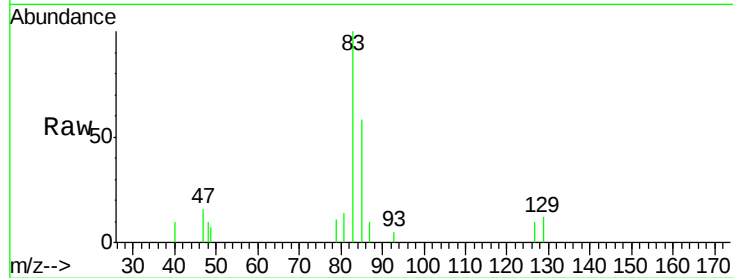
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	83	Resp:	20774
Ion	Ratio	Lower	Upper
83	100		
85	57.6	50.9	76.3
127	10.2	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 2.908 ug/l

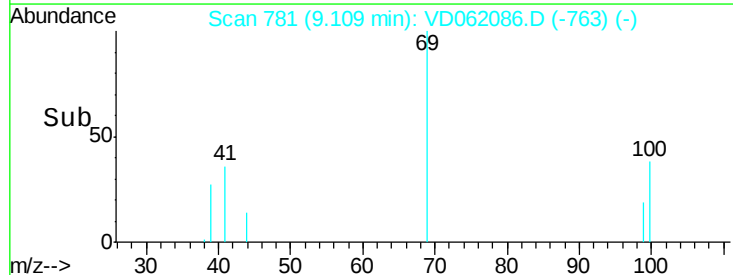
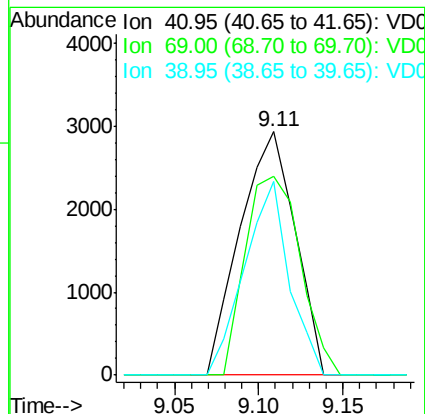
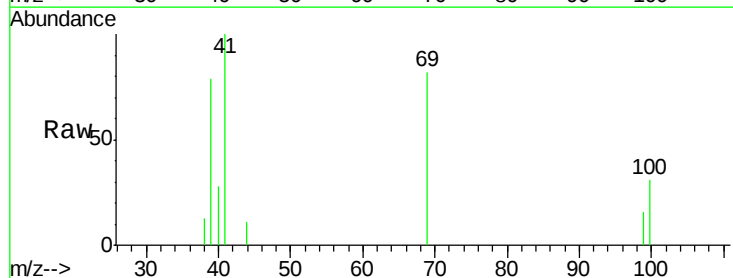
RT: 9.11 min Scan# 781

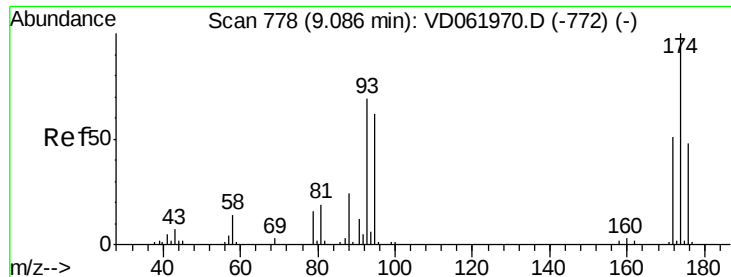
Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion:	41	Resp:	6637
Ion	Ratio	Lower	Upper
41	100		
69	81.5	64.2	96.2
39	79.4	46.8	70.2#





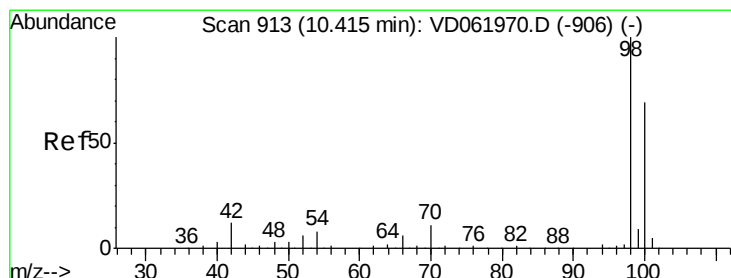
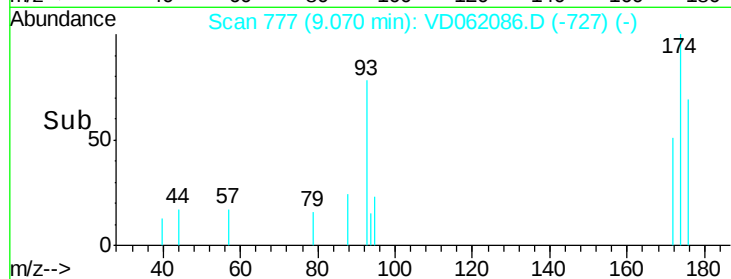
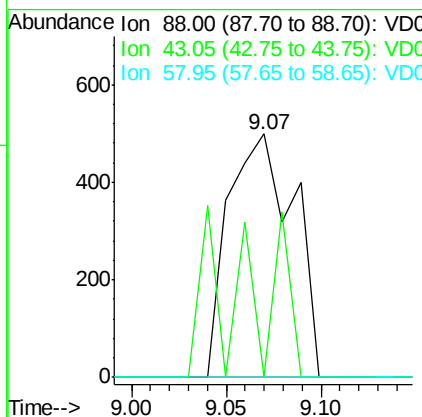
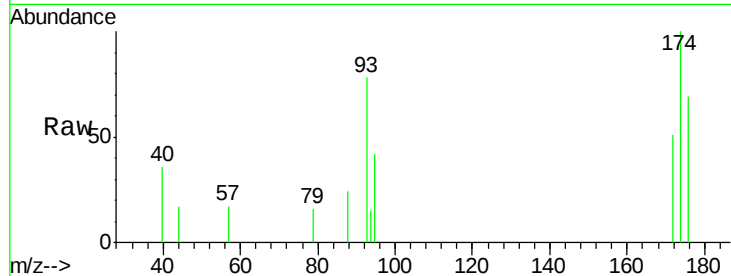
#49
 1,4-Dioxane
 Concen: 48.491 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.4	35.0#
58	0.0	44.0	66.0#

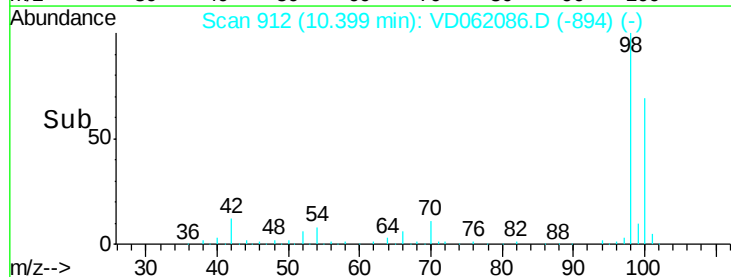
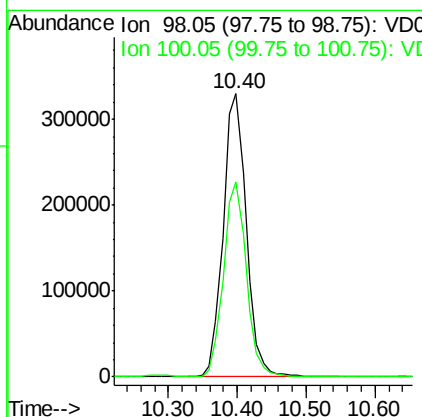
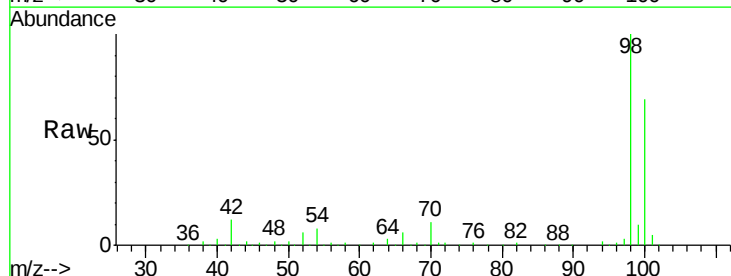
Manual Integrations
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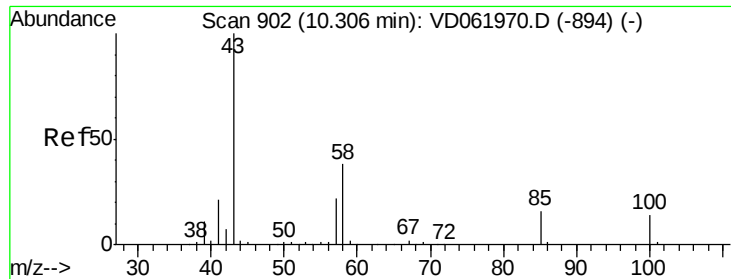
MMDadoda
 5/2/2019 7:23:32 AM



#50
 Toluene-d8
 Concen: 56.561 ug/l
 RT: 10.40 min Scan# 912
 Delta R.T. -0.02 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.9	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 17.322 ug/l

RT: 10.28 min Scan# 900

Delta R.T. -0.02 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 42370

Ion Ratio Lower Upper

43 100

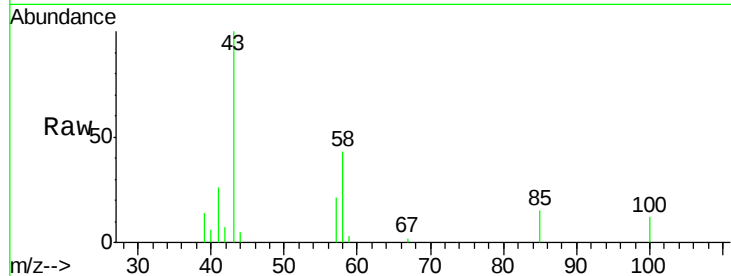
58 42.7 30.4 45.6

Manual Integrations

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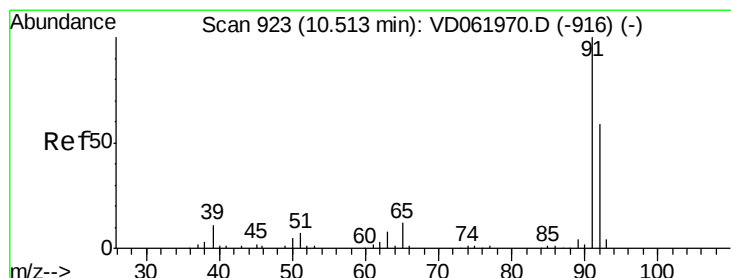
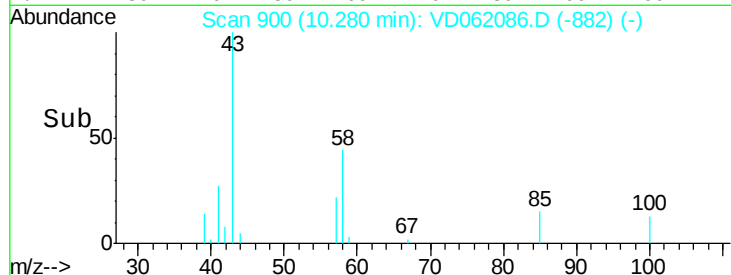
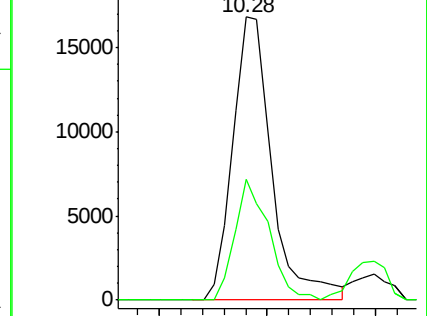
MMDadoda

5/2/2019 7:23:32 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 3.315 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.02 min

Lab File: VD062086.D

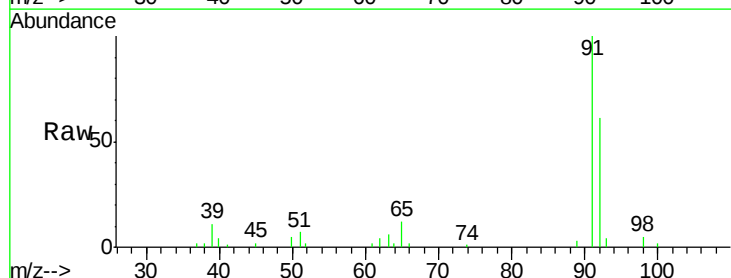
Acq: 30 Apr 2019 14:39

Tgt Ion: 92 Resp: 33610

Ion Ratio Lower Upper

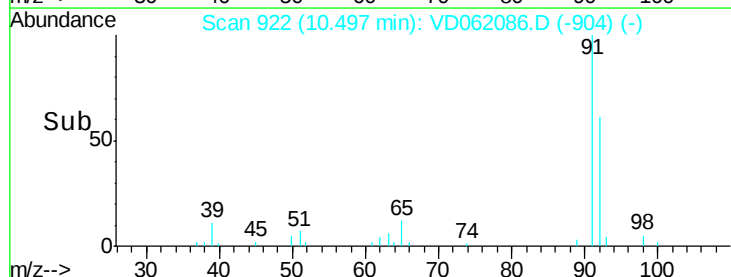
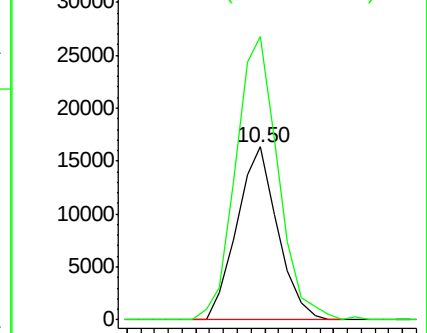
92 100

91 163.7 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





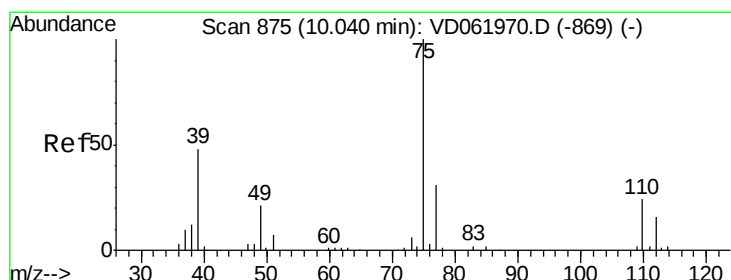
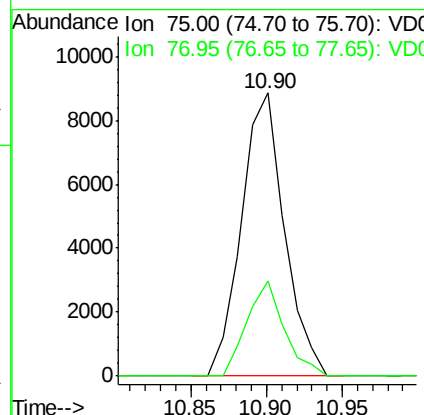
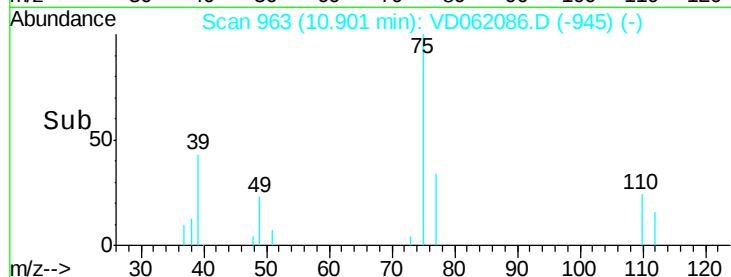
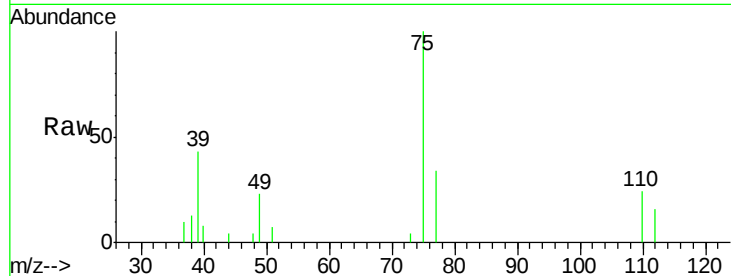
#53
 t-1,3-Dichloropropene
 Concen: 3.037 ug/l
 RT: 10.90 min Scan# 963
 Delta R.T. -0.02 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 75 Resp: 17488
 Ion Ratio Lower Upper
 75 100
 77 33.8 25.8 38.8

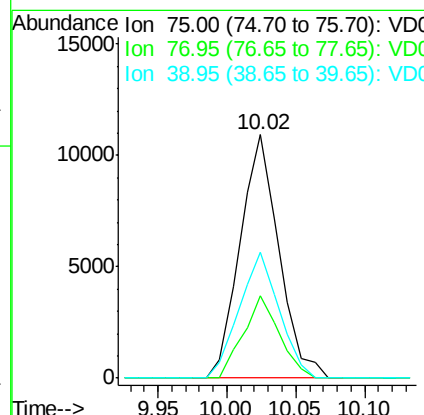
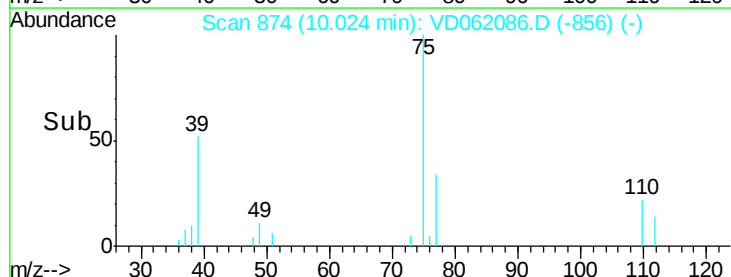
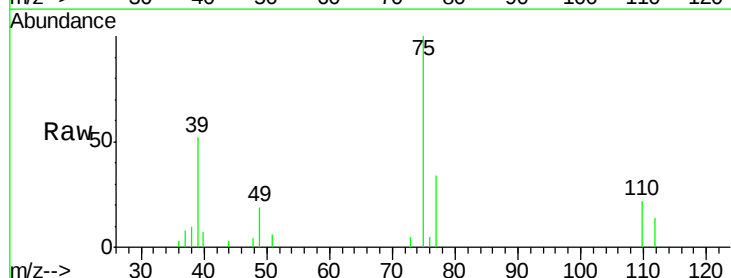
Manual Integrations
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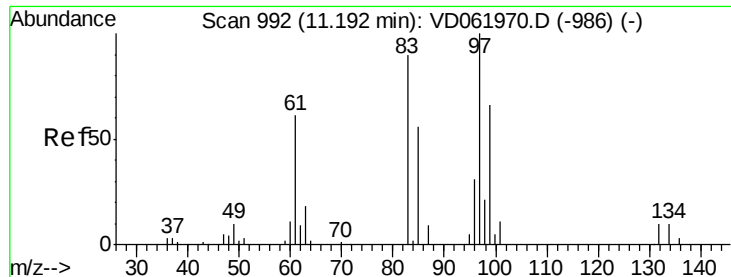
MMDadoda
 5/2/2019 7:23:32 AM



#54
 cis-1,3-Dichloropropene
 Concen: 3.065 ug/l
 RT: 10.02 min Scan# 874
 Delta R.T. -0.02 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion: 75 Resp: 21465
 Ion Ratio Lower Upper
 75 100
 77 33.6 25.5 38.3
 39 51.8 39.4 59.2





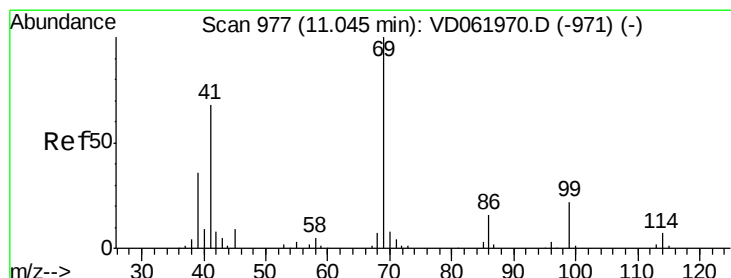
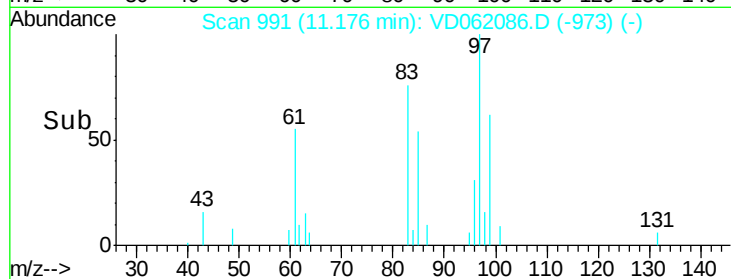
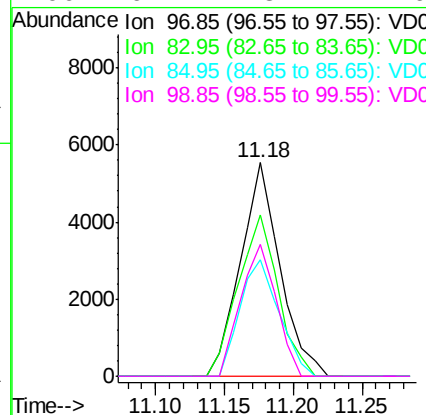
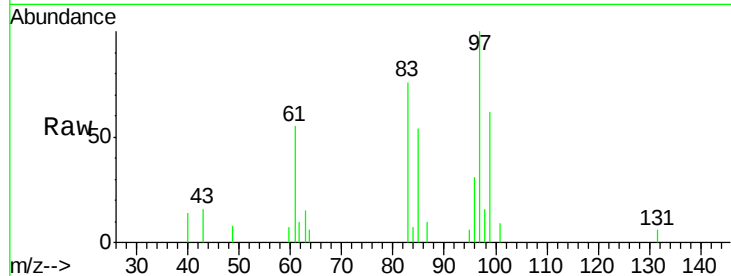
#55
 1,1,2-Trichloroethane
 Concen: 3.249 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. -0.02 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	97	Resp:	11059
Ion	Ratio	Lower	Upper
97	100		
83	75.5	65.7	98.5
85	54.3	45.6	68.4
99	61.7	48.4	72.6

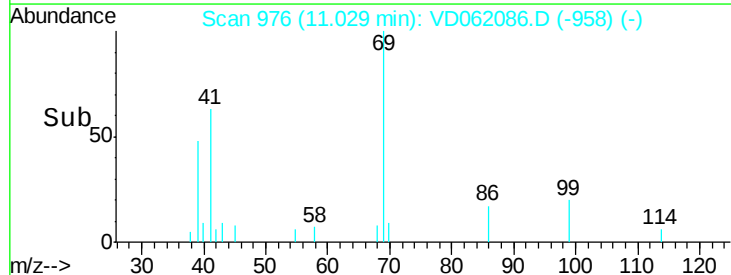
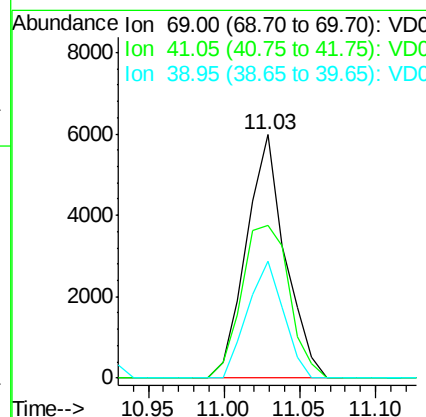
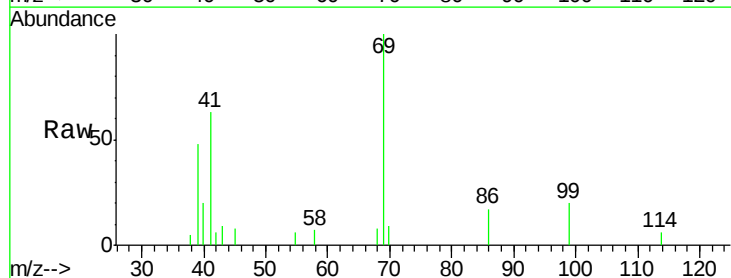
Manual Integrations
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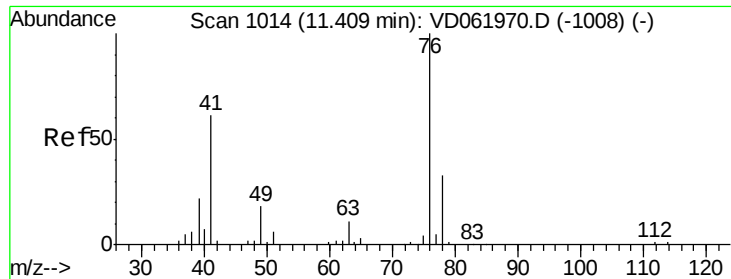
MMDadoda
 5/2/2019 7:23:32 AM



#56
 Ethyl methacrylate
 Concen: 2.836 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. -0.02 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion:	69	Resp:	10691
Ion	Ratio	Lower	Upper
69	100		
41	62.6	56.3	84.5
39	48.1	29.4	44.2#





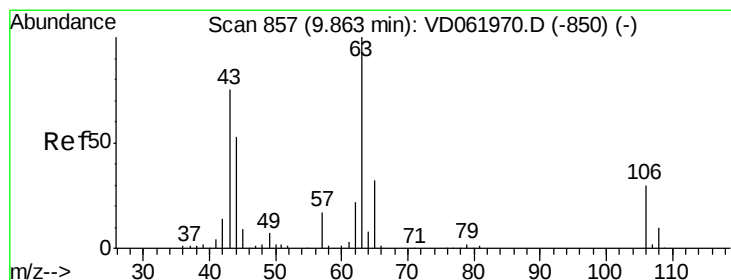
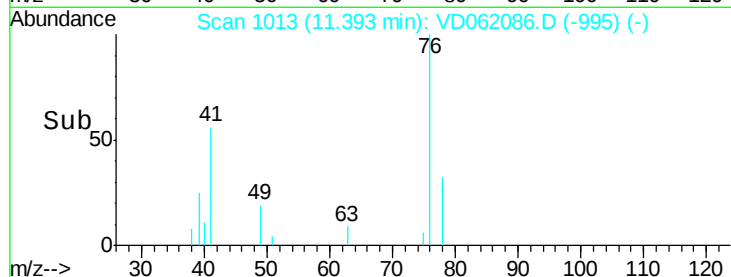
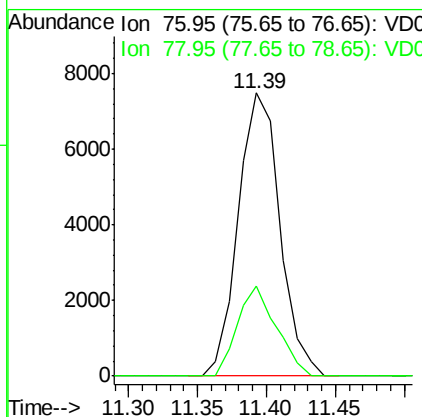
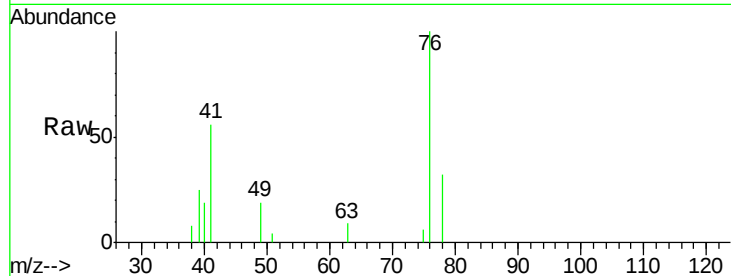
#57
 1,3-Dichloropropane
 Concen: 3.006 ug/l
 RT: 11.39 min Scan# 1013
 Delta R.T. -0.02 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 76 Resp: 15805
 Ion Ratio Lower Upper
 76 100
 78 32.0 26.2 39.2

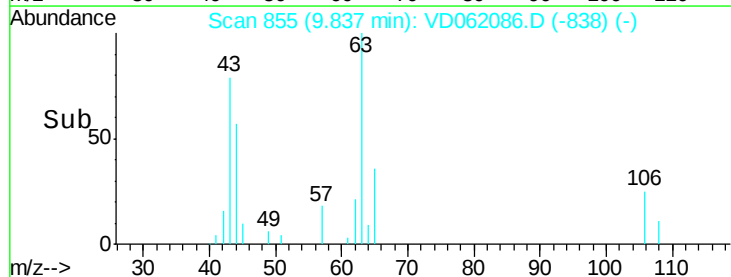
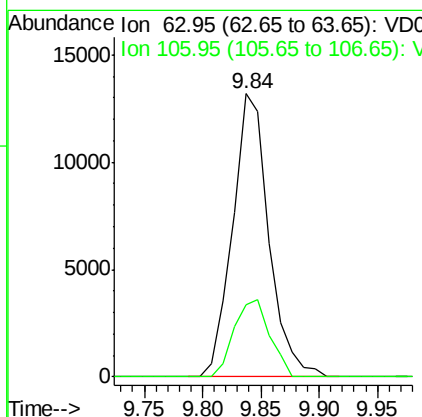
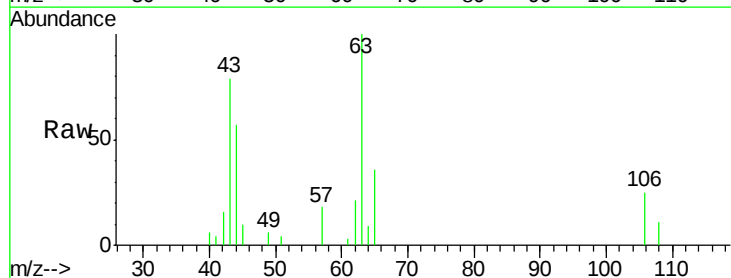
Manual Integrations
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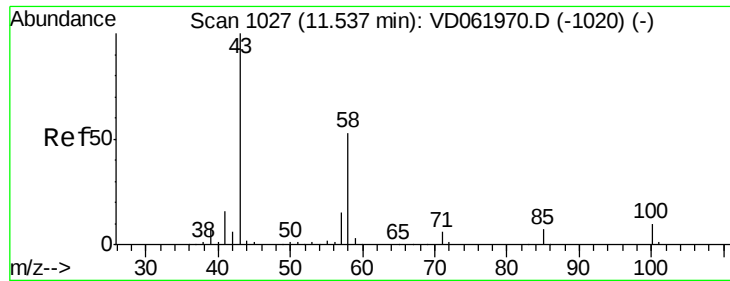
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 16.160 ug/l
 RT: 9.84 min Scan# 855
 Delta R.T. -0.03 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion: 63 Resp: 28326
 Ion Ratio Lower Upper
 63 100
 106 25.4 22.6 34.0





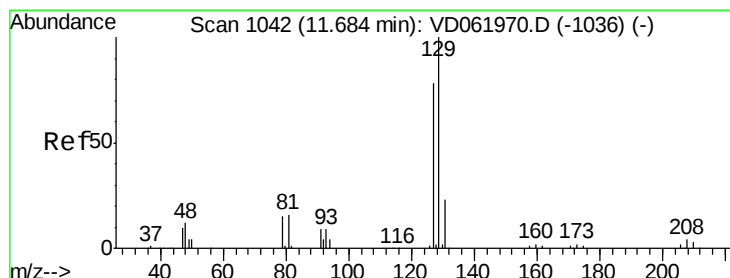
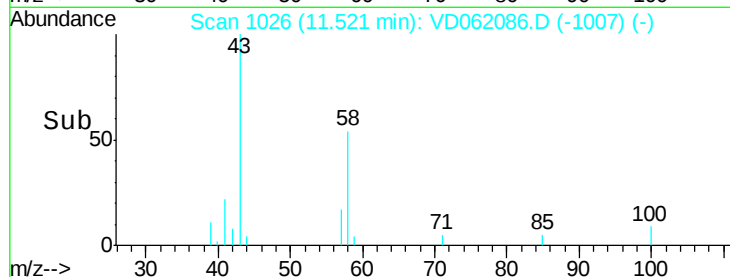
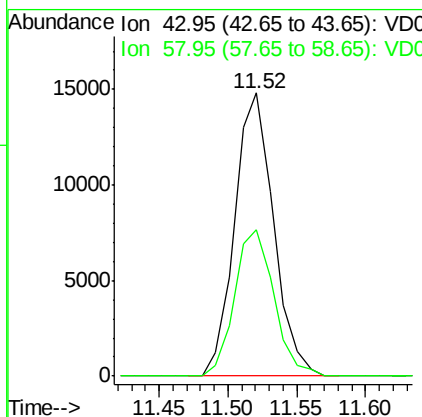
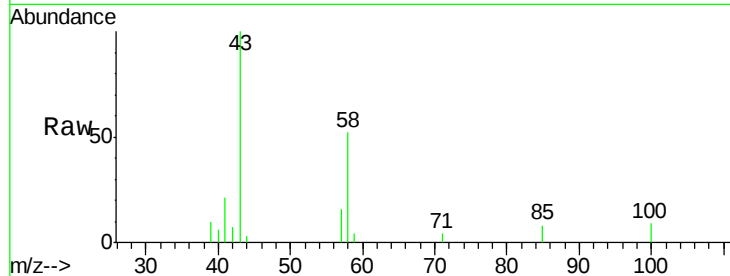
#59
2-Hexanone
Concen: 15.848 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 29078
Ion Ratio Lower Upper
43 100
58 51.6 25.4 76.4

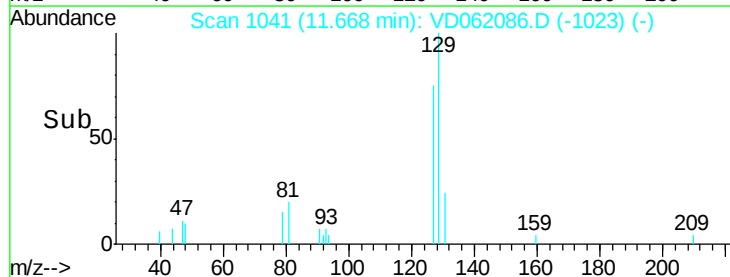
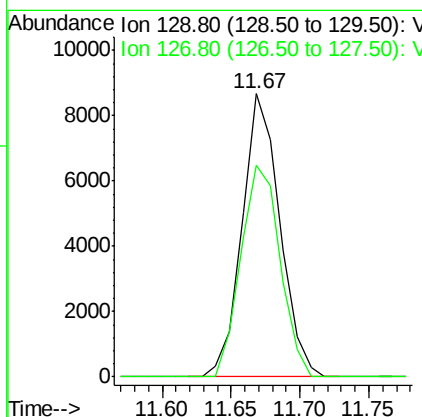
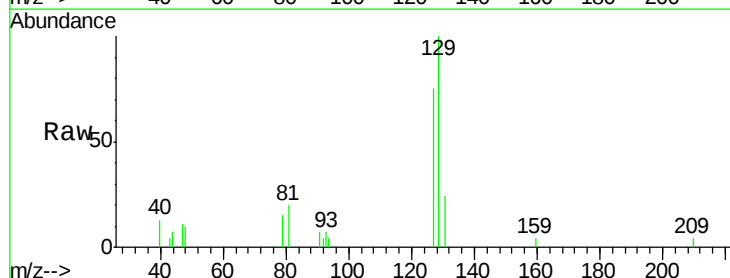
Manual Integrations
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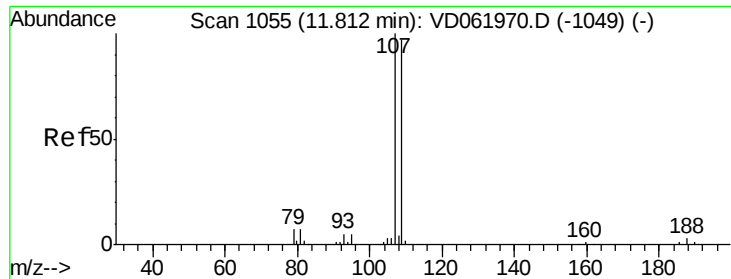
MMDadoda
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#60
Dibromochloromethane
Concen: 2.943 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion: 129 Resp: 16577
Ion Ratio Lower Upper
129 100
127 74.9 38.0 113.9





#61

1,2-Dibromoethane

Concen: 3.019 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 107 Resp: 12191

Ion Ratio Lower Upper

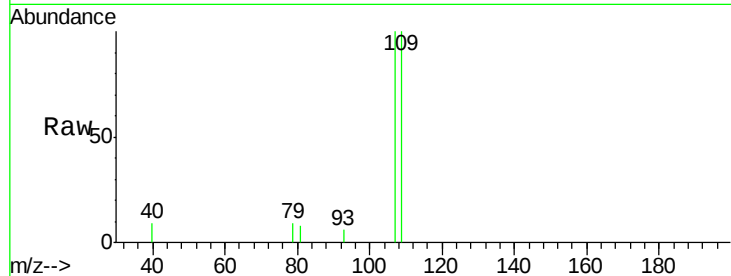
107 100

109 99.6 78.3 117.5

Manual Integrations
APPROVED

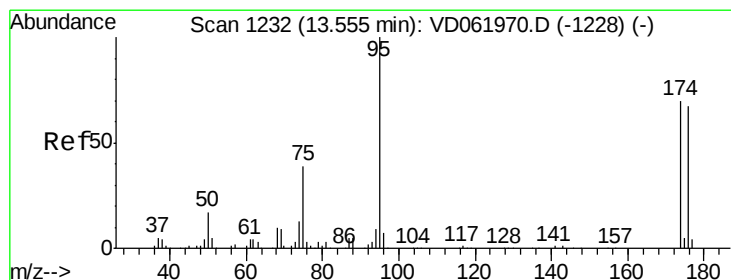
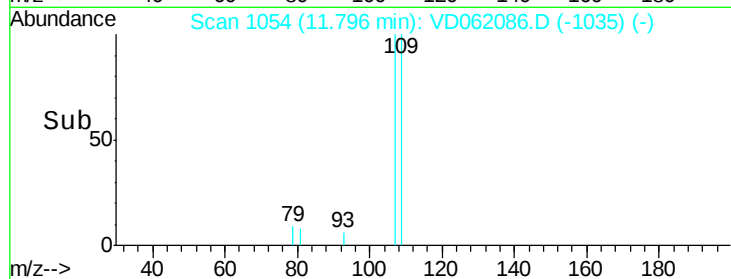
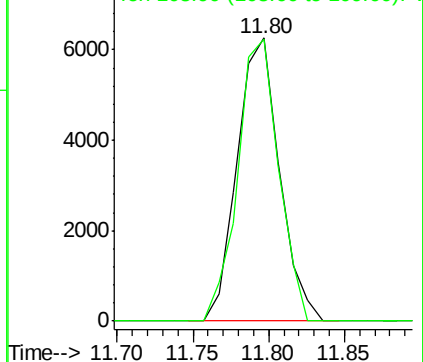
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 53.677 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

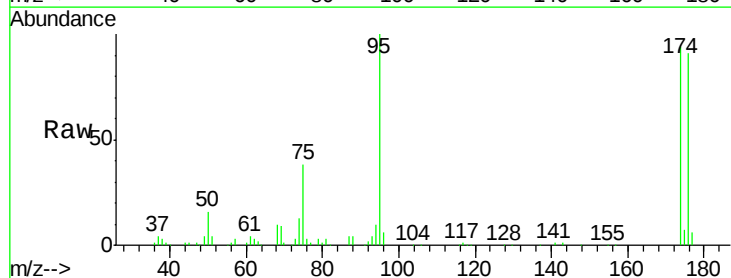
Tgt Ion: 95 Resp: 292113

Ion Ratio Lower Upper

95 100

174 93.7 0.0 181.8

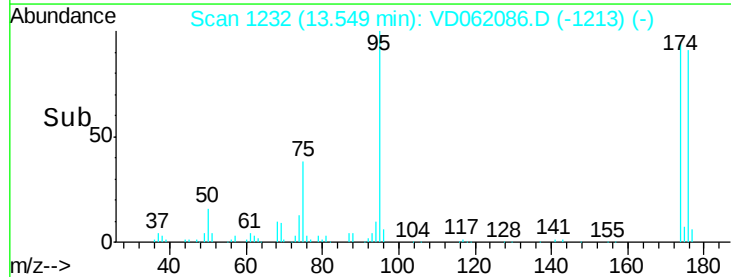
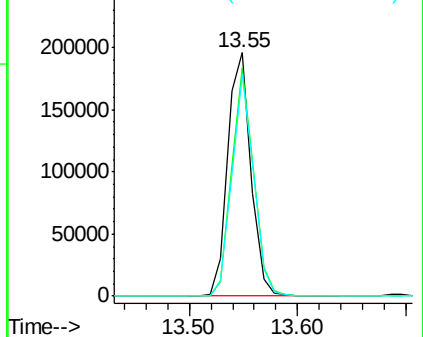
176 91.3 0.0 174.4

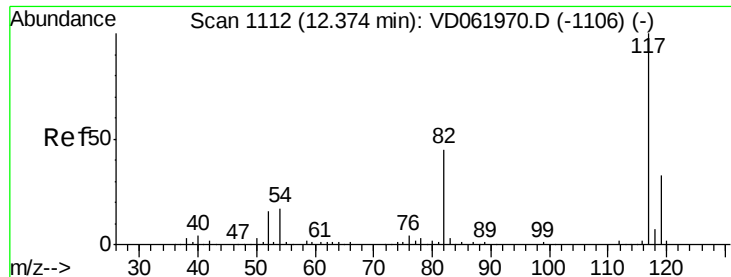


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





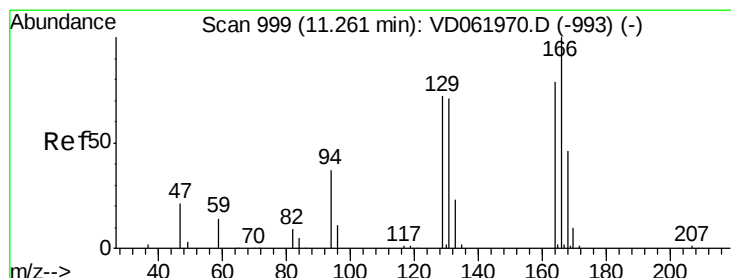
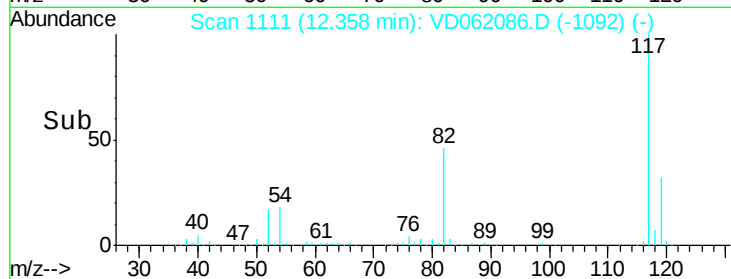
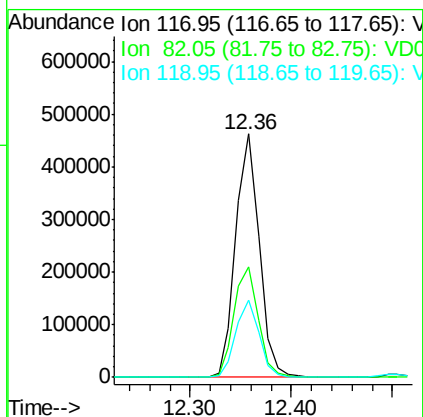
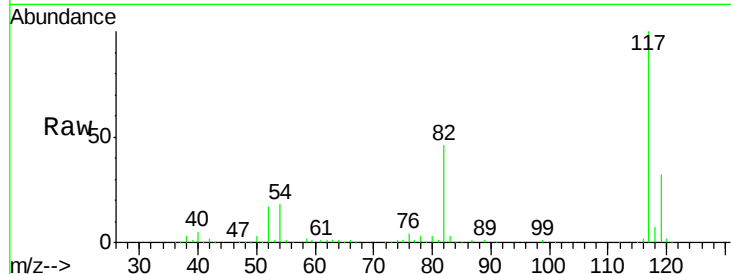
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	45.6	36.2	54.2
119	31.8	26.2	39.4

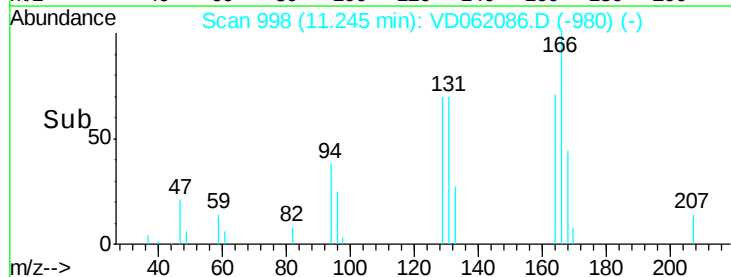
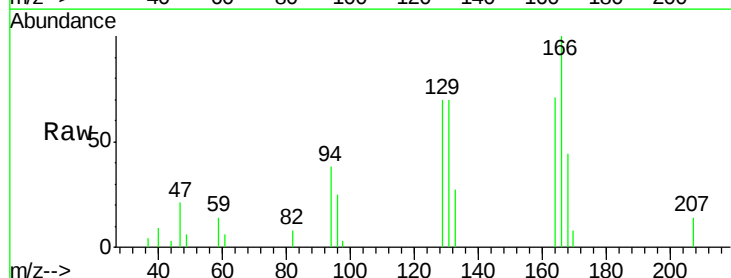
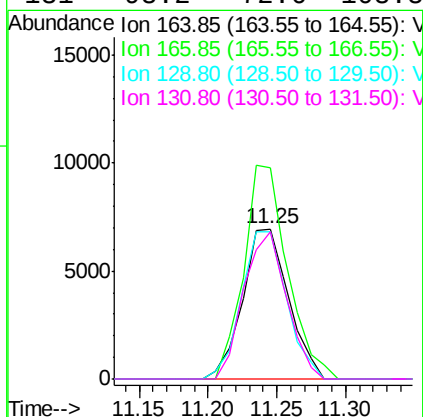
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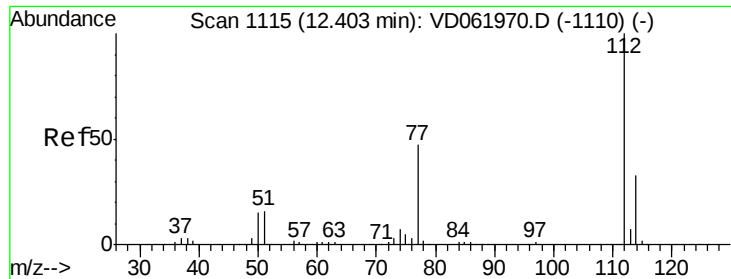
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#64
Tetrachloroethene
Concen: 3.018 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	140.7	101.5	152.3
129	98.1	74.6	112.0
131	98.2	72.6	108.8





#65

Chlorobenzene

Concen: 2.734 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:112 Resp: 38736

Ion Ratio Lower Upper

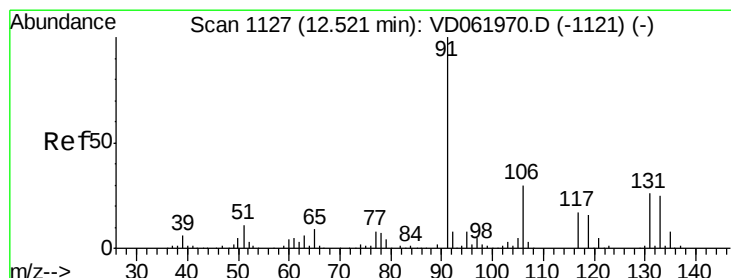
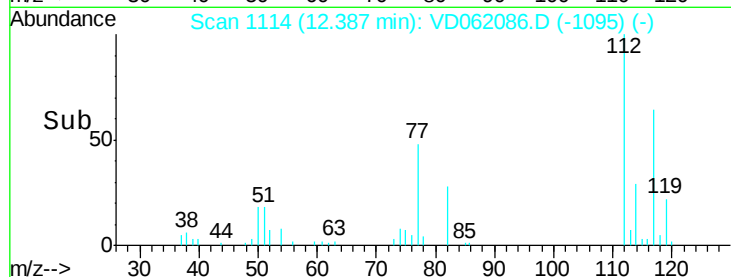
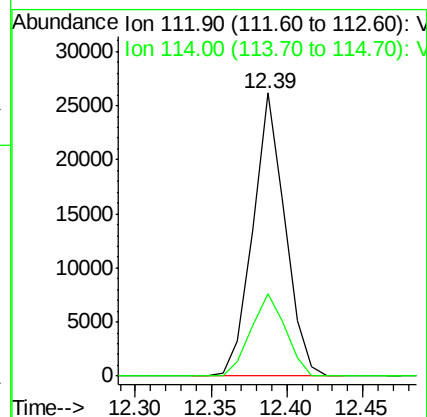
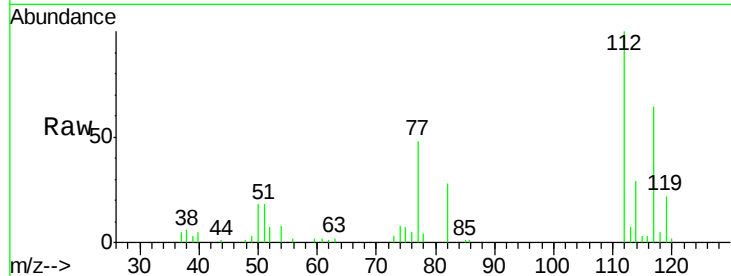
112 100

114 29.3 25.8 38.8

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 2.618 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

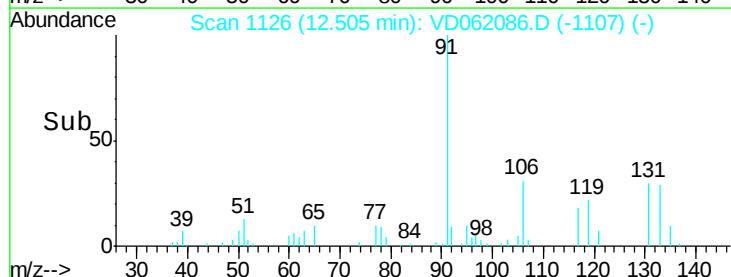
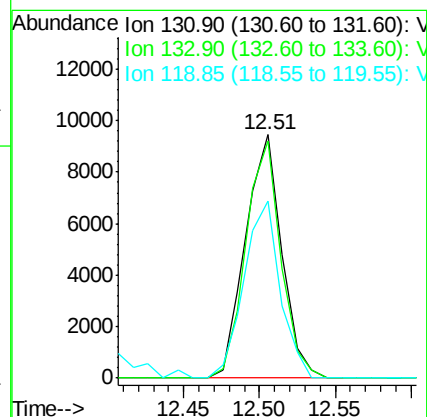
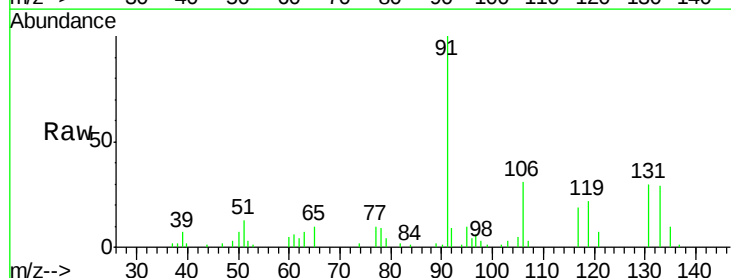
Tgt Ion:131 Resp: 15736

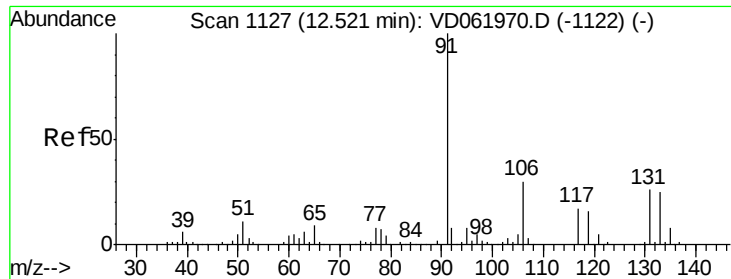
Ion Ratio Lower Upper

131 100

133 97.4 48.6 145.8

119 72.6 34.7 104.1





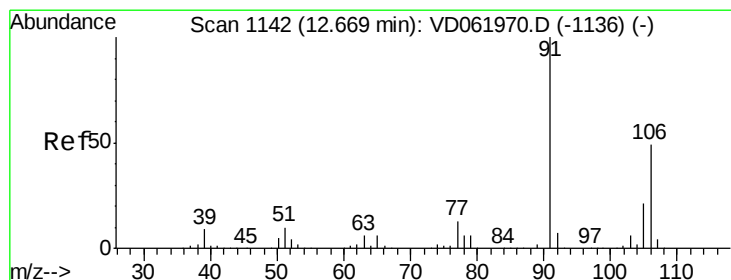
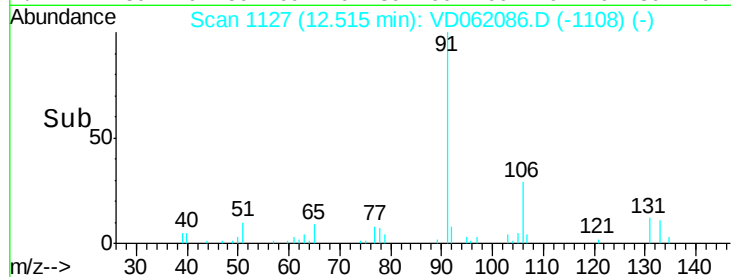
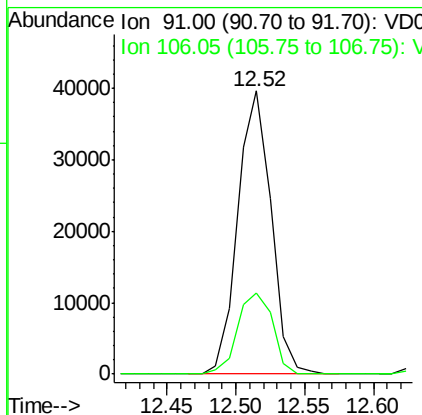
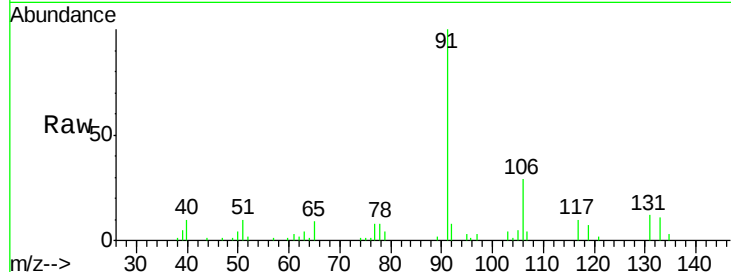
#67
Ethyl Benzene
Concen: 2.882 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 91 Resp: 66653
Ion Ratio Lower Upper
91 100
106 28.9 24.7 37.1

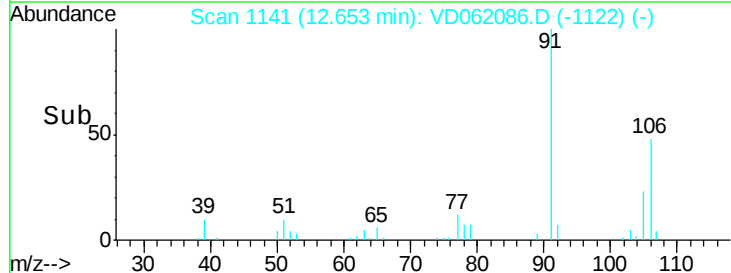
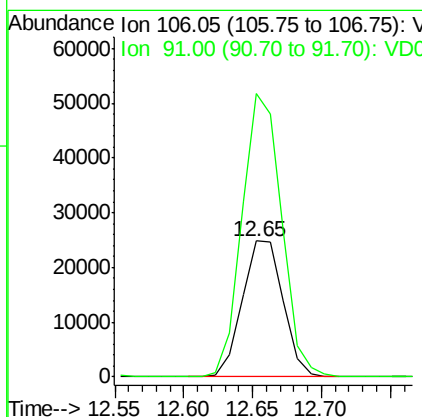
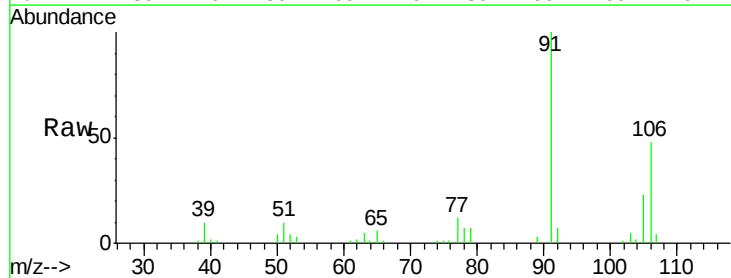
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#68
m/p-Xylenes
Concen: 6.156 ug/l
RT: 12.65 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion: 106 Resp: 51452
Ion Ratio Lower Upper
106 100
91 208.0 164.0 246.0





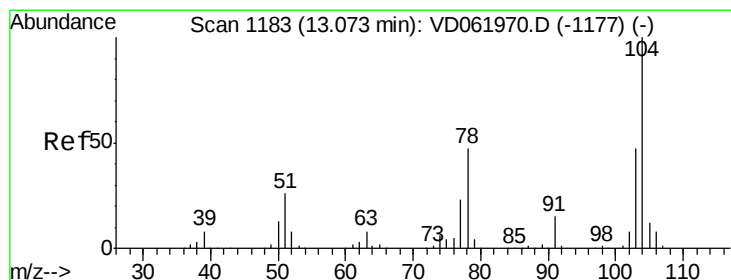
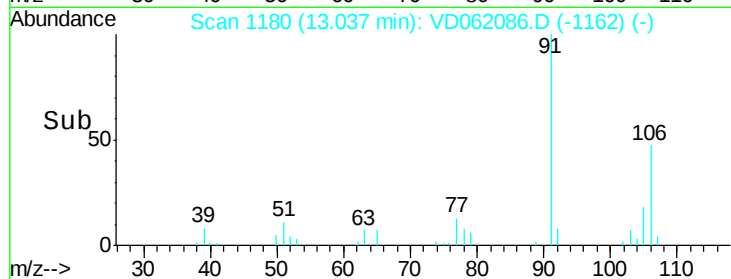
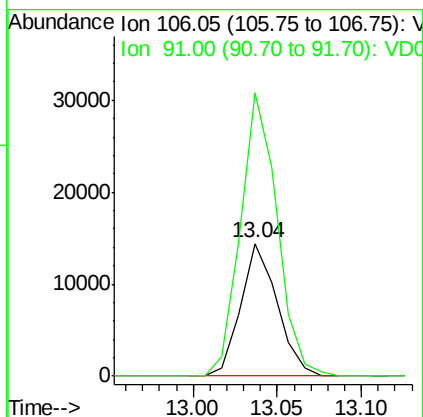
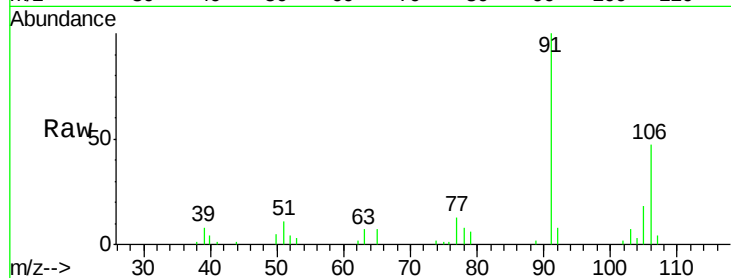
#69
o-Xylene
Concen: 2.829 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:106 Resp: 21637
Ion Ratio Lower Upper
106 100
91 213.2 106.7 319.9

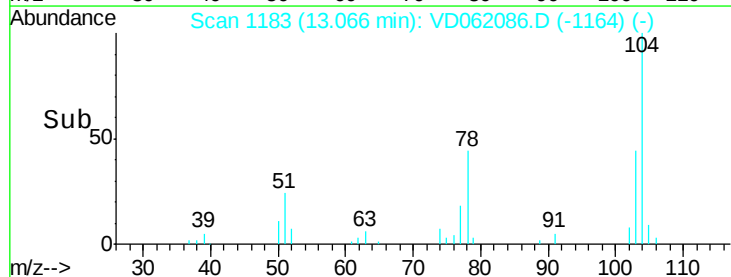
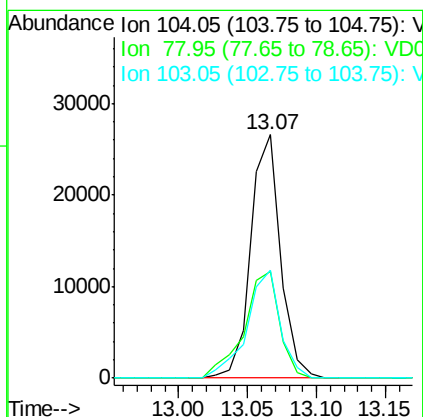
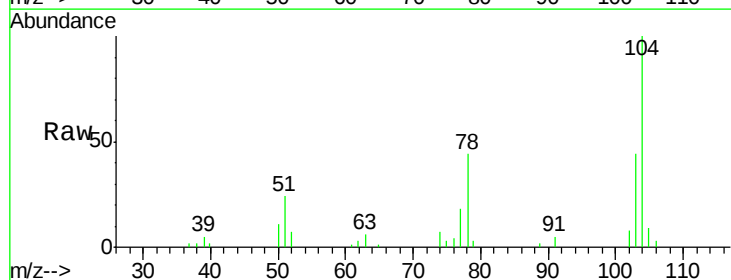
Manual Integrations
APPROVED

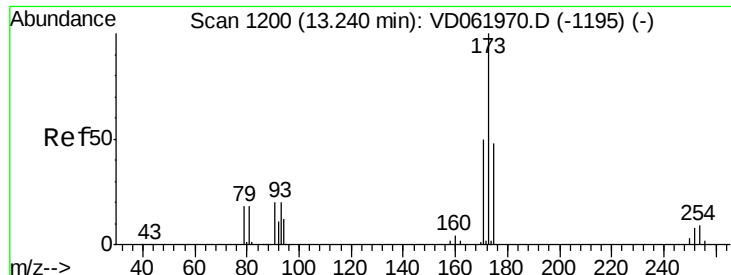
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#70
Styrene
Concen: 3.043 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion:104 Resp: 40182
Ion Ratio Lower Upper
104 100
78 43.7 35.4 53.2
103 44.3 37.5 56.3





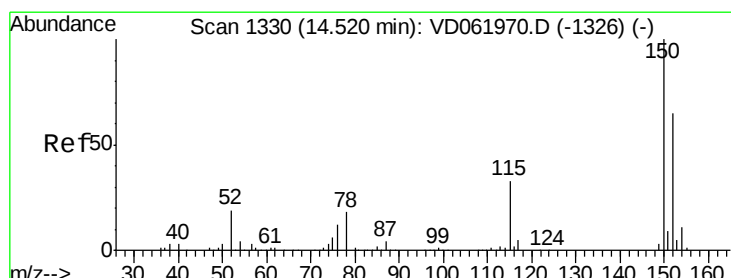
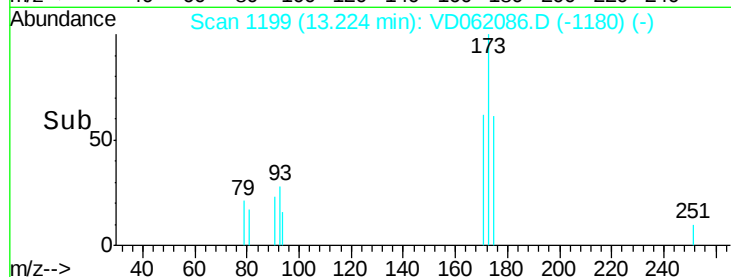
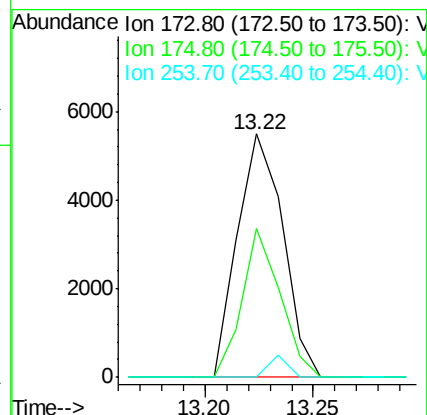
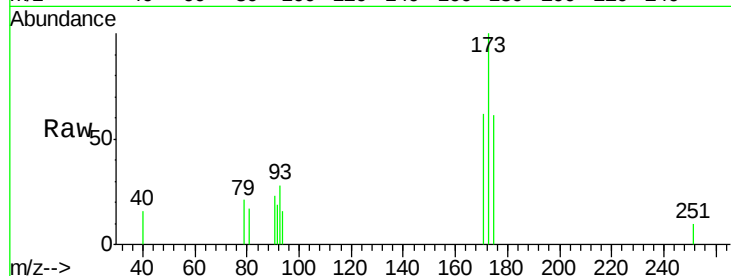
#71
Bromoform
Concen: 2.337 ug/l
RT: 13.22 min Scan# 1199
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	61.0	24.4	73.4
254	0.0	5.4	8.2

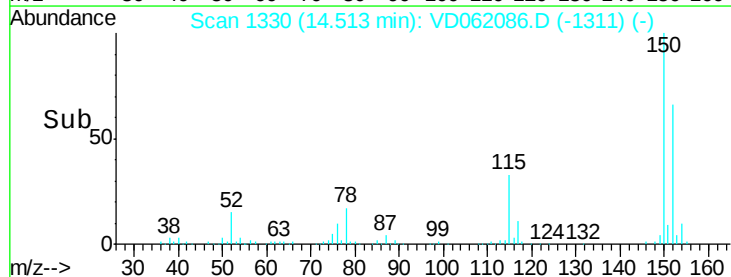
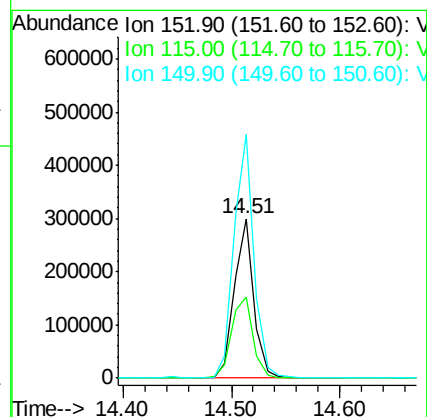
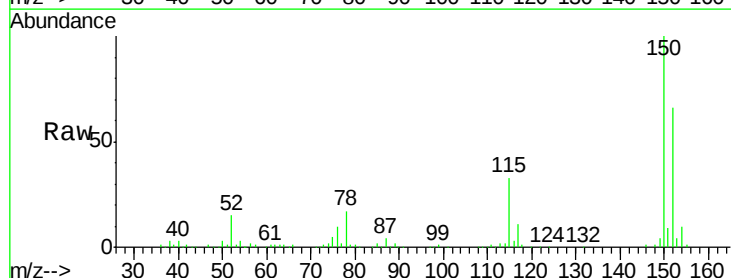
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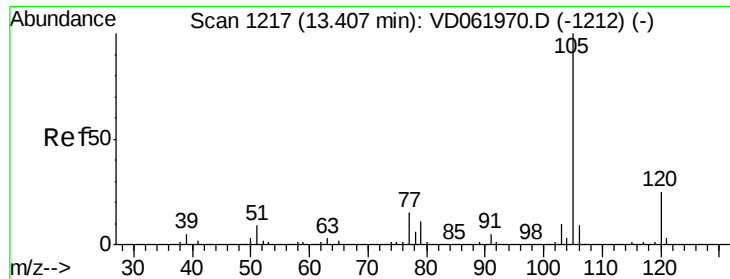
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
152	100		
115	50.9	30.9	92.7
150	152.5	0.0	314.8





#73

Isopropylbenzene

Concen: 2.630 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 105 Resp: 65641

Ion Ratio Lower Upper

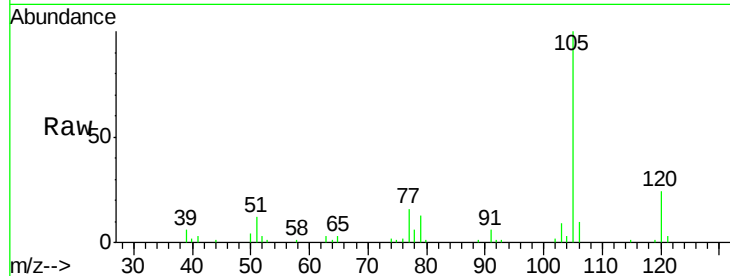
105 100

120 24.3 12.0 36.1

Manual Integrations
APPROVED

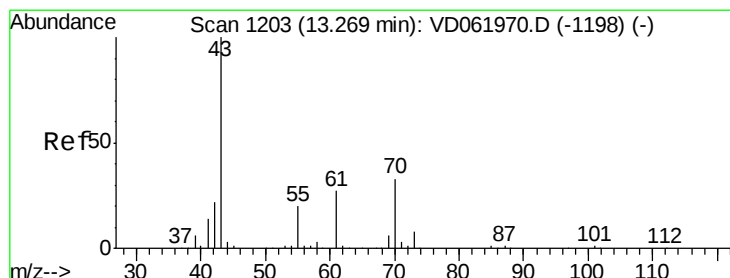
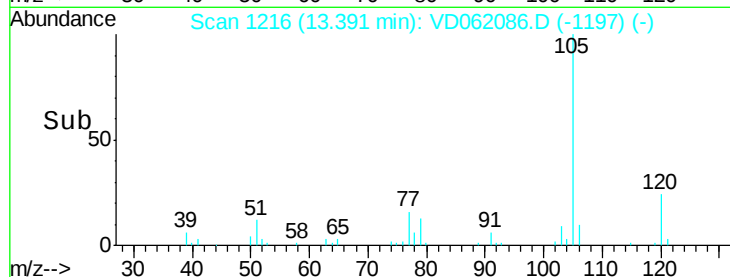
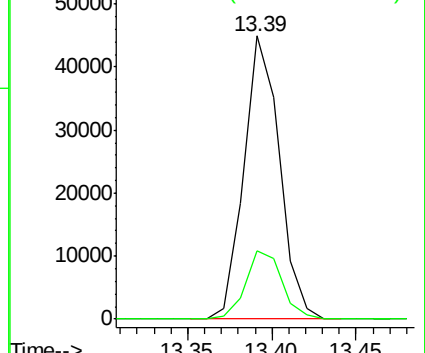
MMDadoda

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 2.329 ug/l

RT: 13.25 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion: 43 Resp: 14969

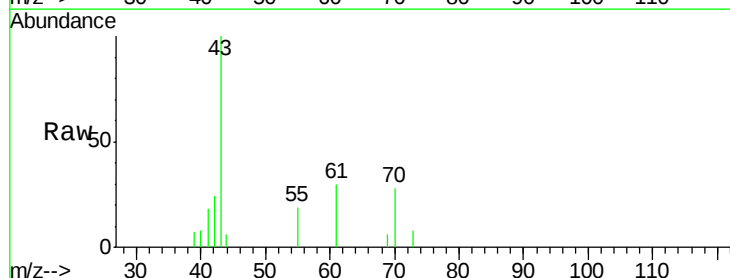
Ion Ratio Lower Upper

43 100

70 27.8 24.2 36.4

55 18.6 16.0 24.0

61 30.1 21.6 32.4

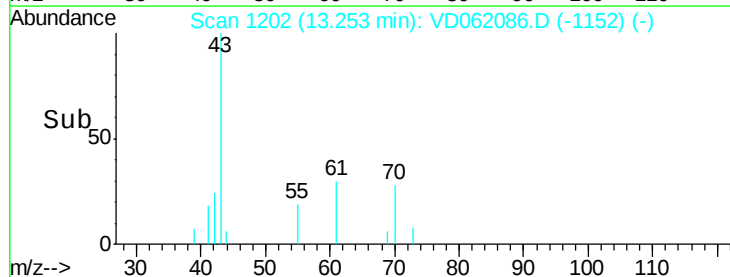
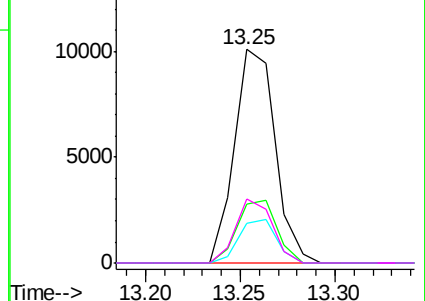


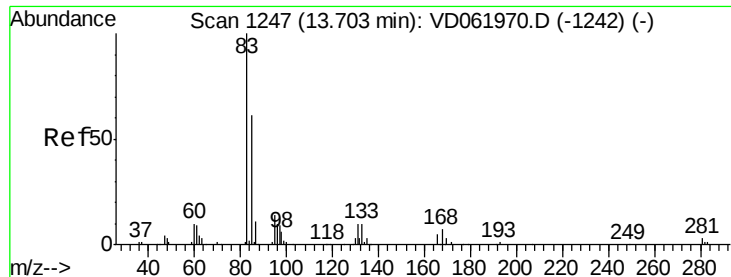
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.740 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

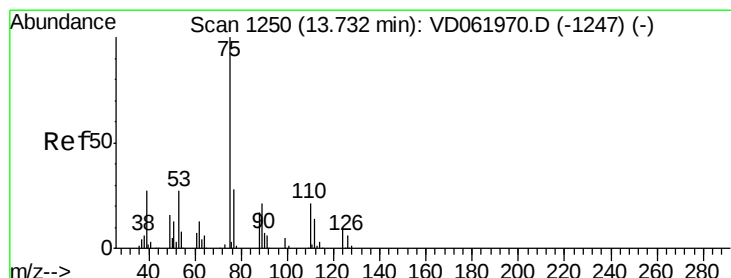
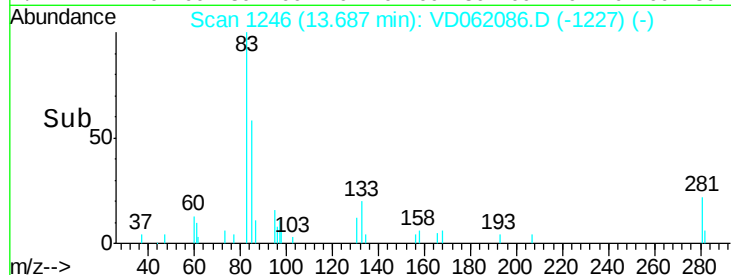
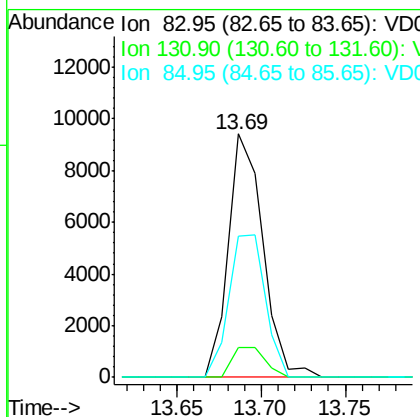
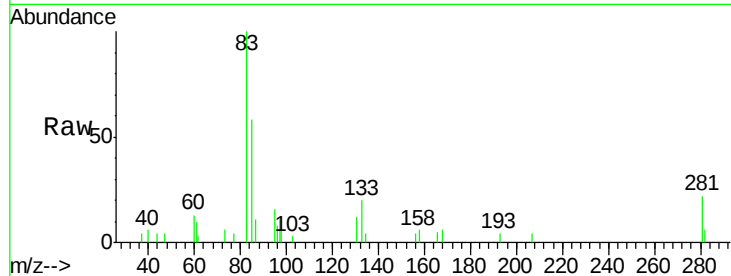
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	83	Resp:	13405
Ion Ratio	Lower	Upper	
83	100		
131	12.2	5.0	14.9
85	57.8	32.6	97.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.773 ug/l

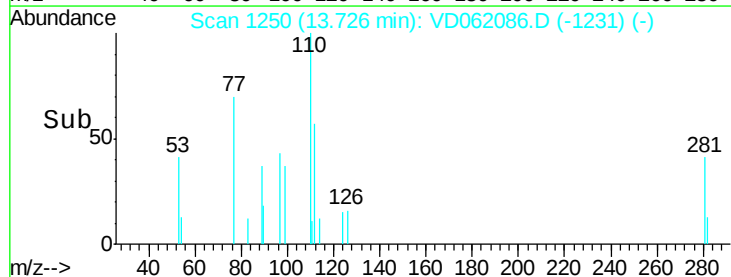
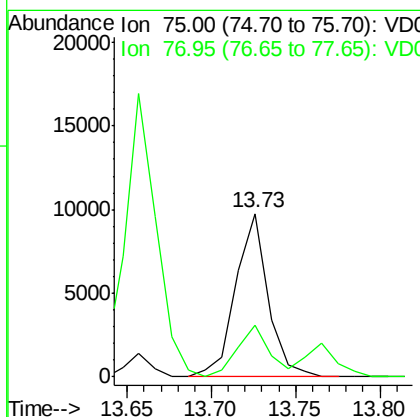
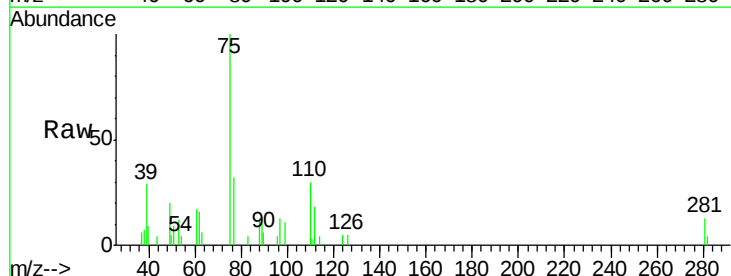
RT: 13.73 min Scan# 1250

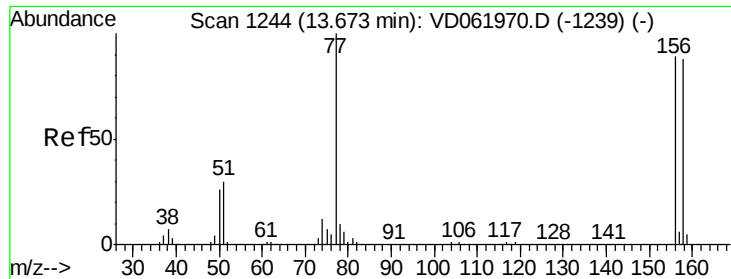
Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Tgt Ion:	75	Resp:	13179
Ion Ratio	Lower	Upper	
75	100		
77	32.0	16.4	49.4





#77

Bromobenzene

Concen: 2.526 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD062086.D

Acq: 30 Apr 2019 14:39

Instrument :

MSVOA_D

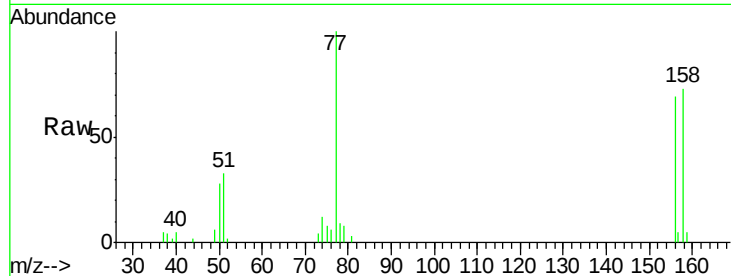
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	156	Resp:	18090
Ion Ratio	Lower	Upper	
156	100		
77	144.6	53.1	159.4
158	105.7	49.4	148.0

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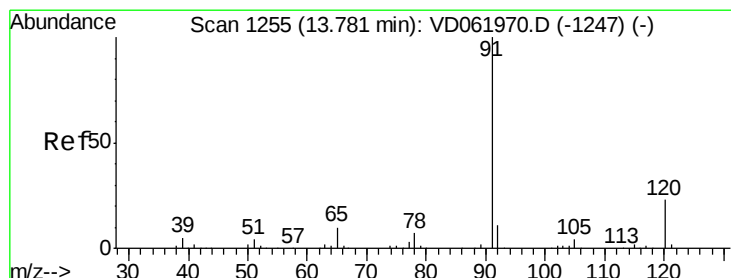
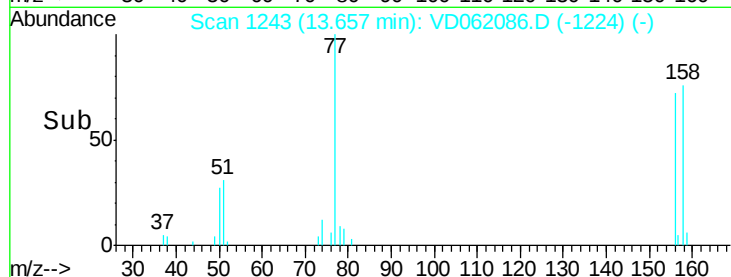
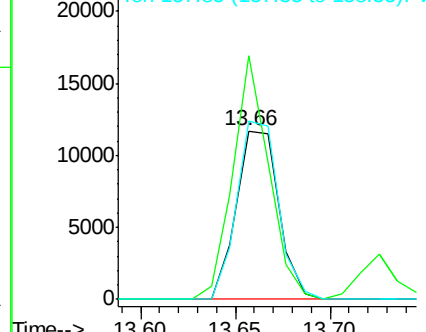
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 2.827 ug/l

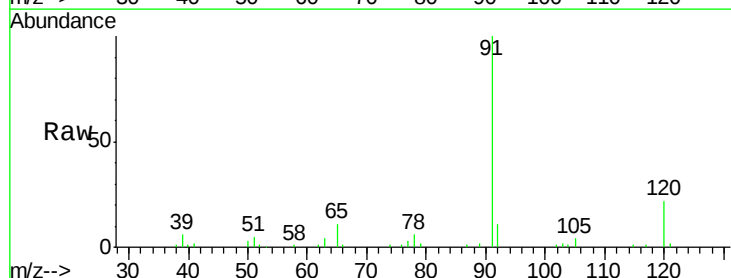
RT: 13.77 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD062086.D

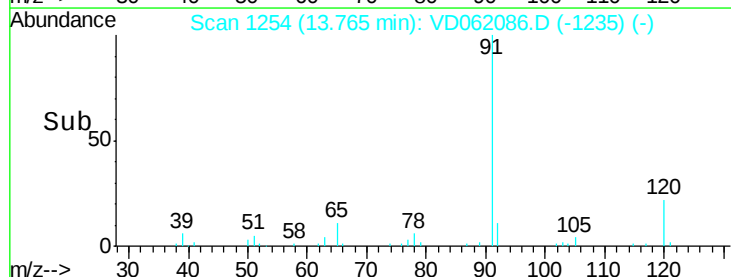
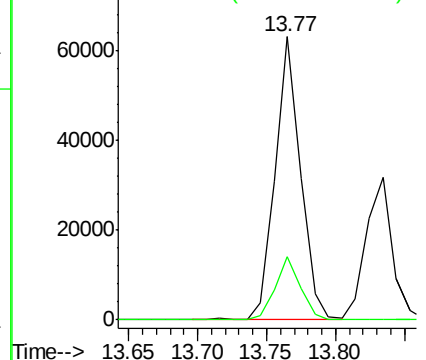
Acq: 30 Apr 2019 14:39

Tgt Ion:	91	Resp:	80791
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.1	33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





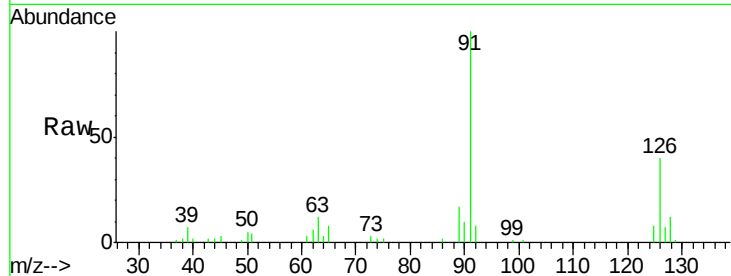
#79
 2-Chlorotoluene
 Concen: 2.428 ug/l
 RT: 13.83 min Scan# 1261
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

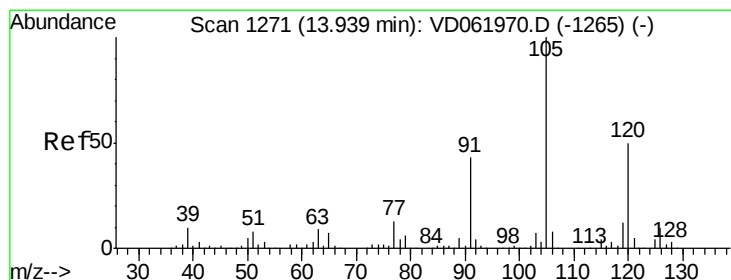
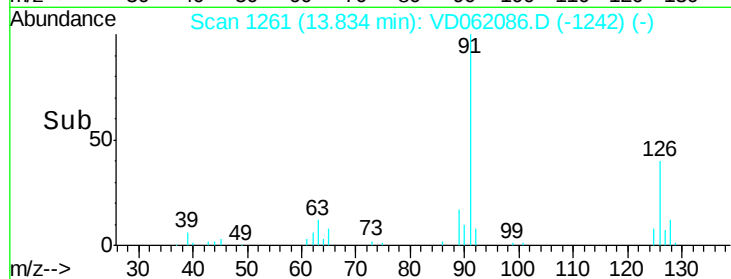
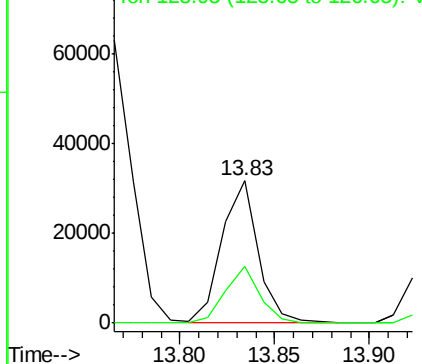
Tot Ion: 91 Resp: 42032
 Ion Ratio Lower Upper
 91 100
 126 39.8 18.6 55.8

Manual Integrations
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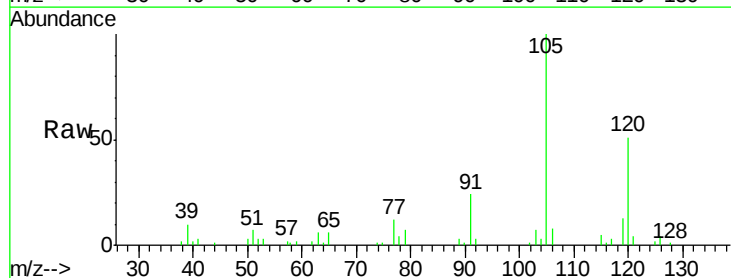


Abundance Ion 91.00 (90.70 to 91.70): VD061970.D (-1258) (-)
 Ion 125.95 (125.65 to 126.65): VD061970.D (-1258) (-)

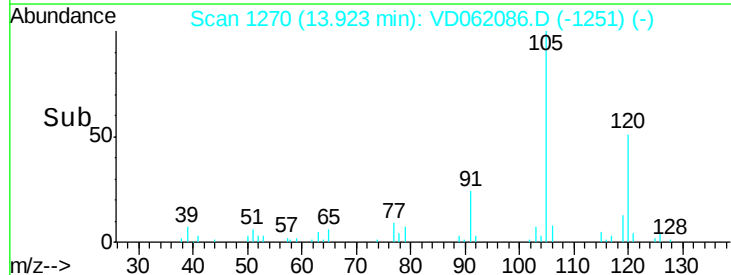
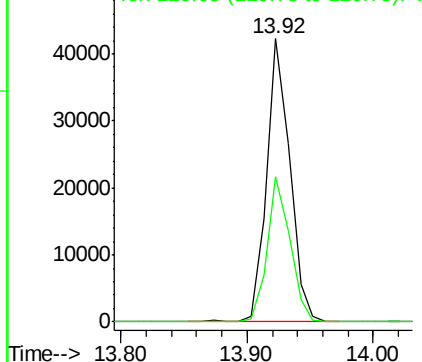


#80
 1,3,5-Trimethylbenzene
 Concen: 2.726 ug/l
 RT: 13.92 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion: 105 Resp: 54267
 Ion Ratio Lower Upper
 105 100
 120 51.4 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD061970.D (-1265) (-)
 Ion 120.05 (119.75 to 120.75): VD061970.D (-1265) (-)





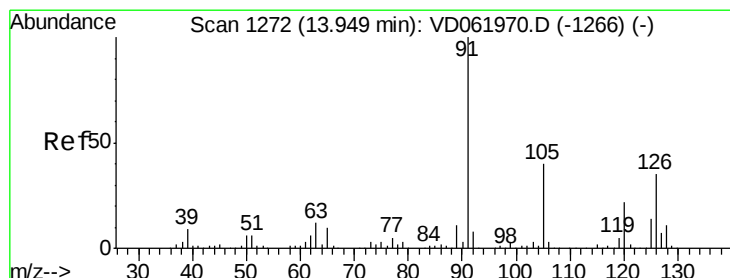
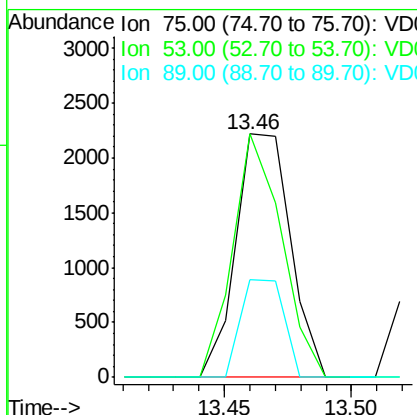
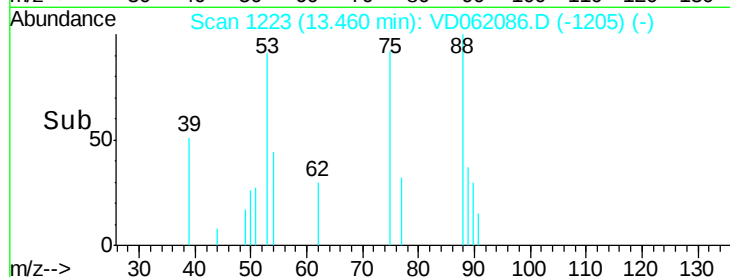
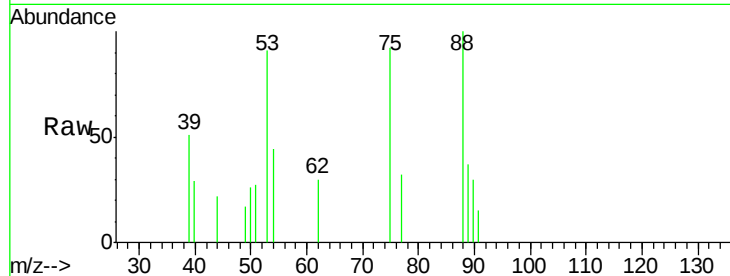
#81
trans-1,4-Dichloro-2-butene
Concen: 2.306 ug/l m
RT: 13.46 min Scan# 1223
Delta R.T. -0.02 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.8	65.8	98.8#
89	40.0	35.0	52.6

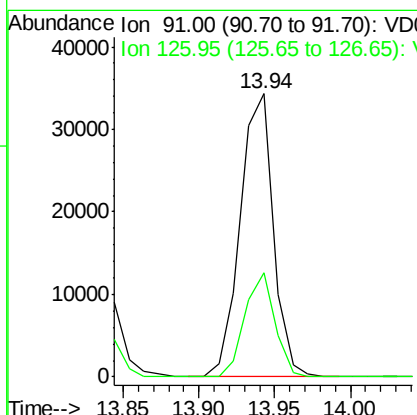
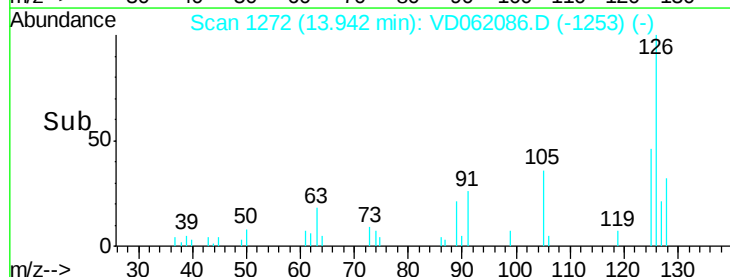
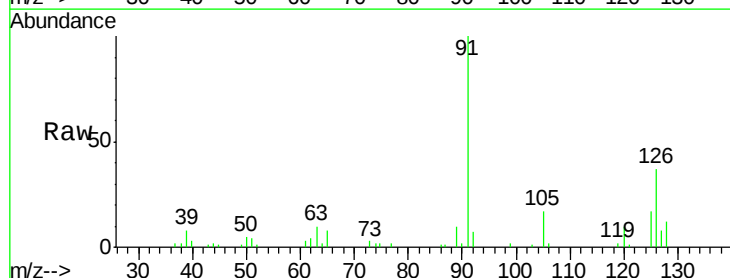
Manual Integrations
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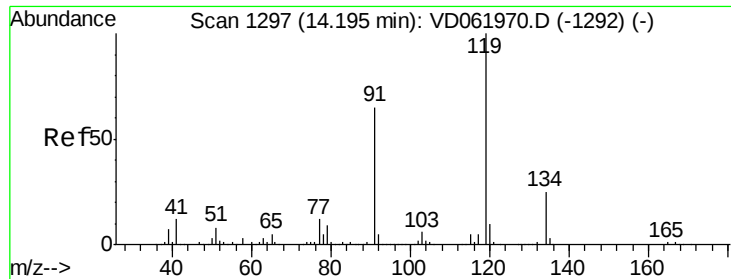
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#82
4-Chlorotoluene
Concen: 2.739 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.7	19.1	57.5





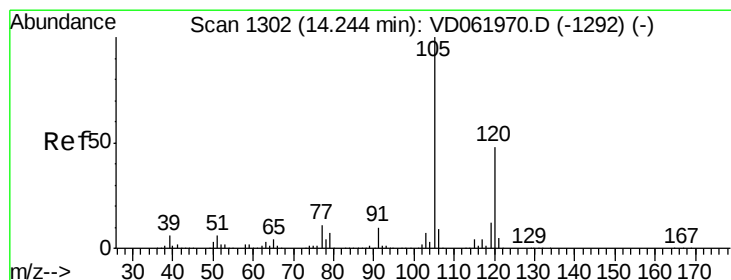
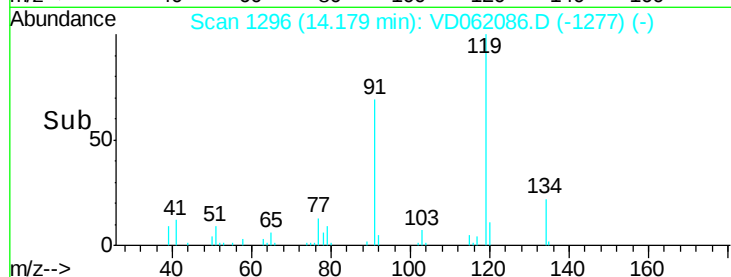
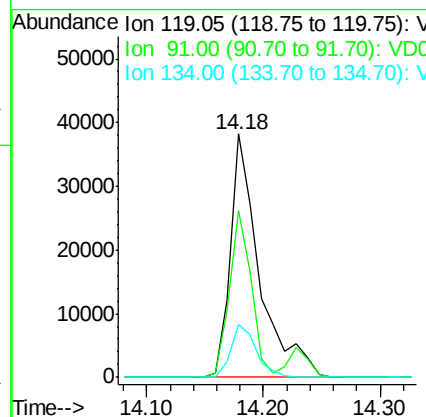
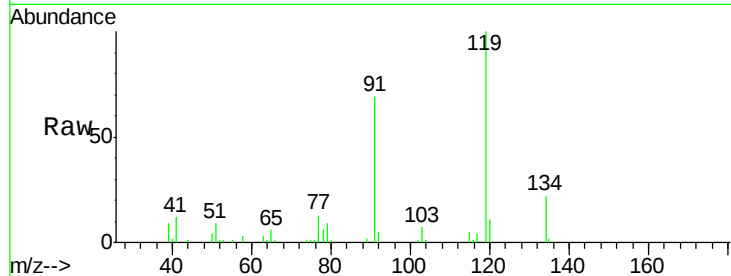
#83
tert-Butylbenzene
Concen: 2.860 ug/l
RT: 14.18 min Scan# 1296
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.8	34.2	102.6
134	21.8	12.0	36.0

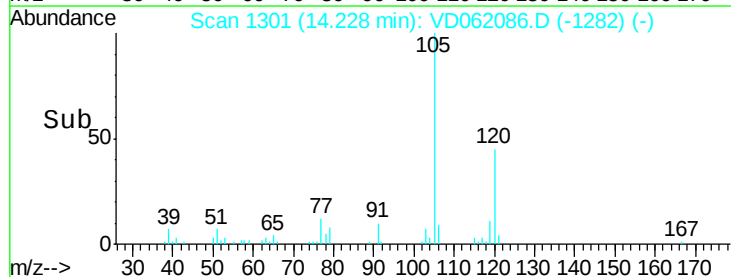
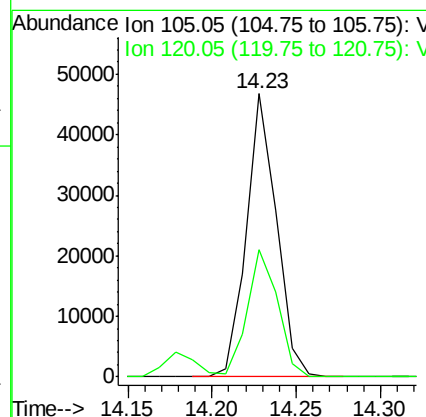
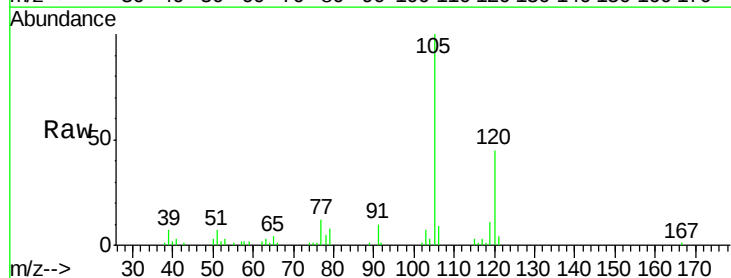
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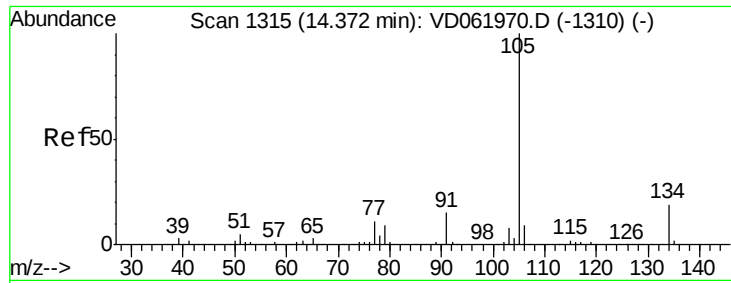
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#84
1,2,4-Trimethylbenzene
Concen: 3.048 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.7	23.1	69.2





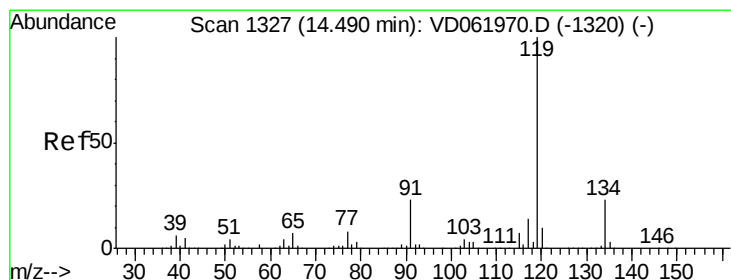
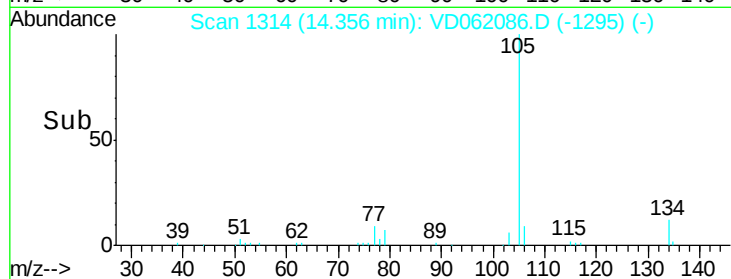
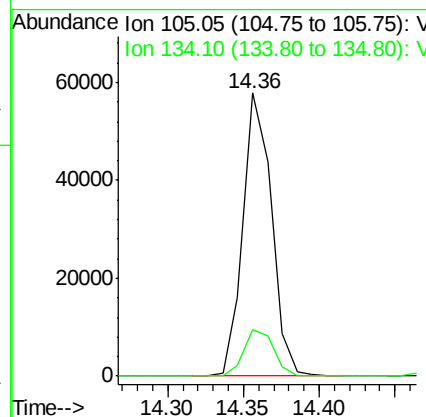
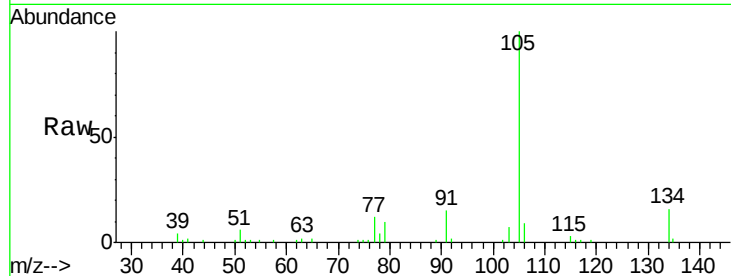
#85
 sec-Butylbenzene
 Concen: 3.048 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion:105 Resp: 75926
 Ion Ratio Lower Upper
 105 100
 134 16.4 8.9 26.7

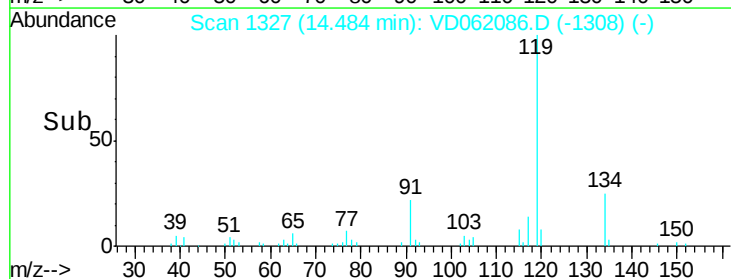
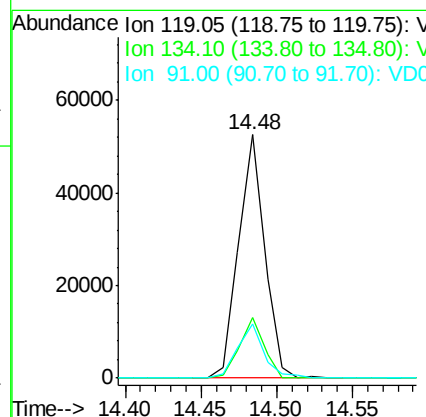
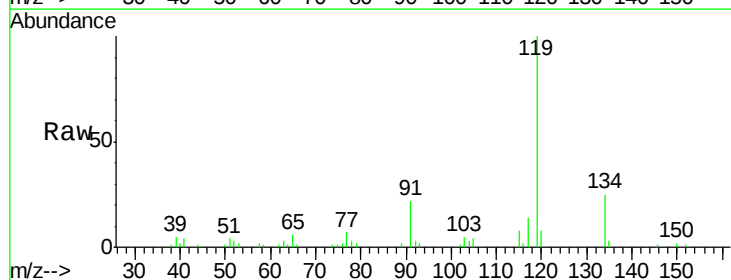
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#86
 p-Isopropyltoluene
 Concen: 2.810 ug/l
 RT: 14.48 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion:119 Resp: 62651
 Ion Ratio Lower Upper
 119 100
 134 25.1 12.8 38.3
 91 22.4 10.7 32.1





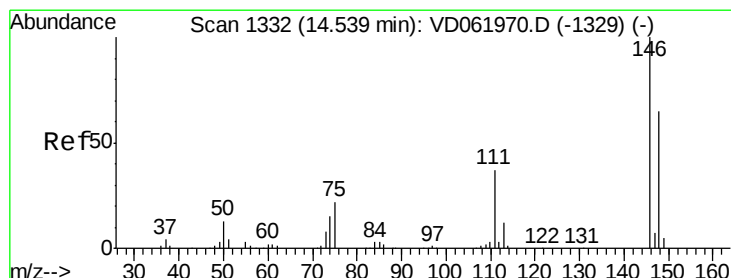
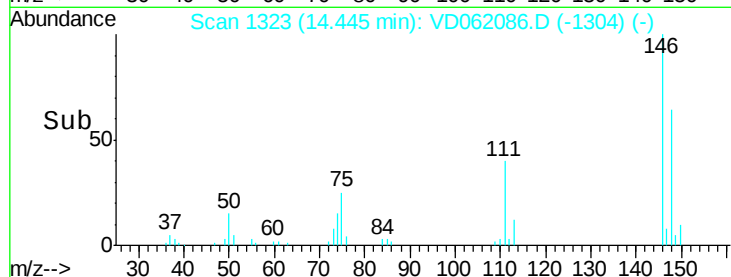
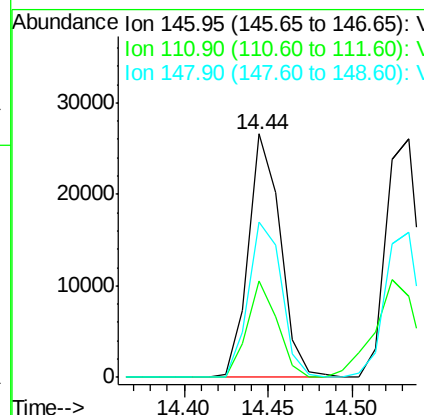
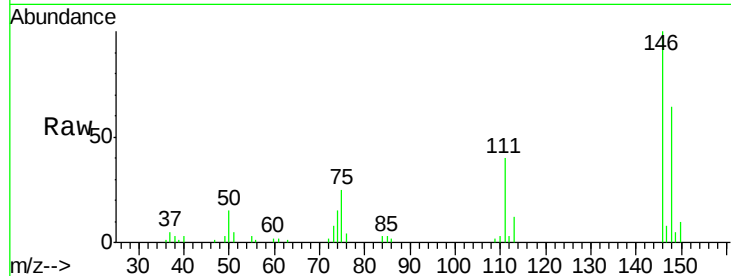
#87
 1,3-Dichlorobenzene
 Concen: 2.793 ug/l
 RT: 14.44 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.0	60.0
148	63.6	31.8	95.4

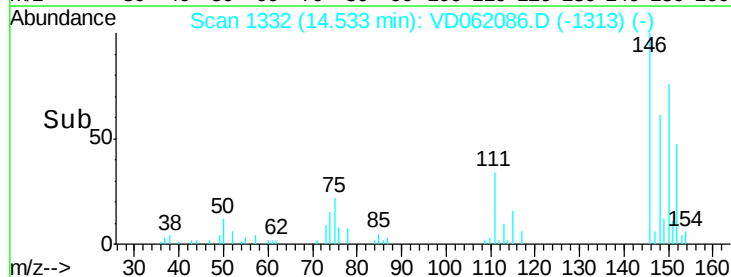
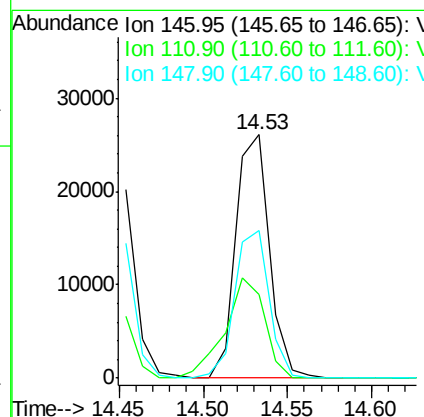
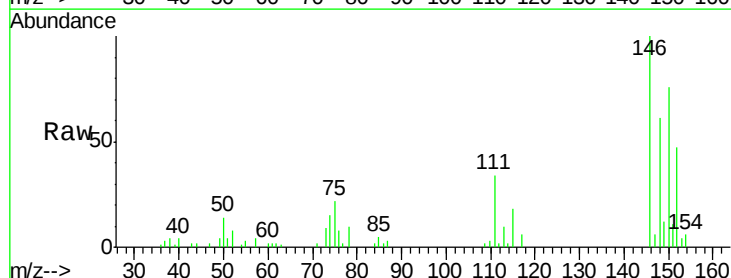
Manual Integrations
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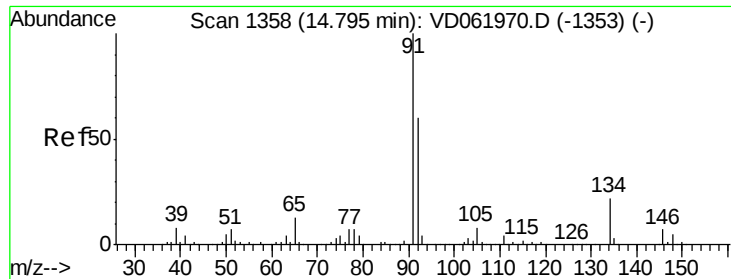
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#88
 1,4-Dichlorobenzene
 Concen: 3.072 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.2	20.2	60.5
148	60.8	32.0	96.2





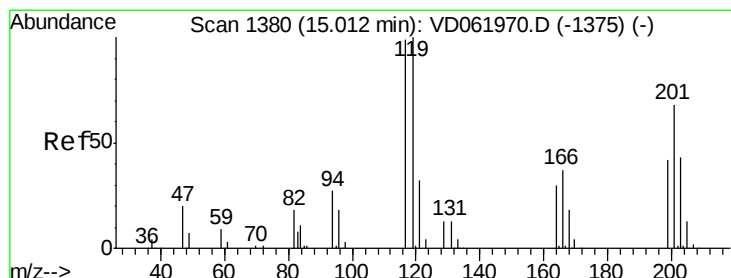
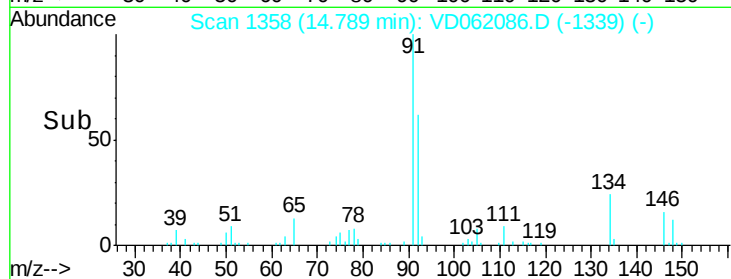
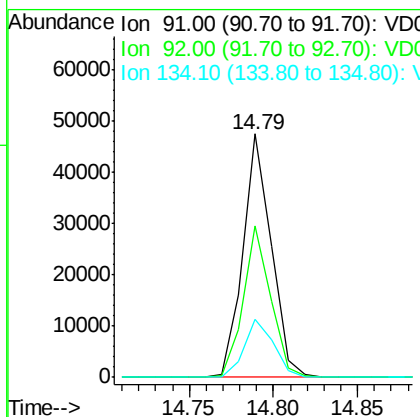
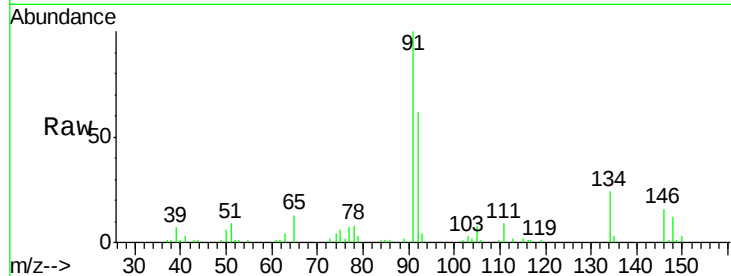
#89
n-Butylbenzene
Concen: 2.763 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
91	100	55318		
92	62.1		30.3	91.0
134	23.7		14.5	43.6

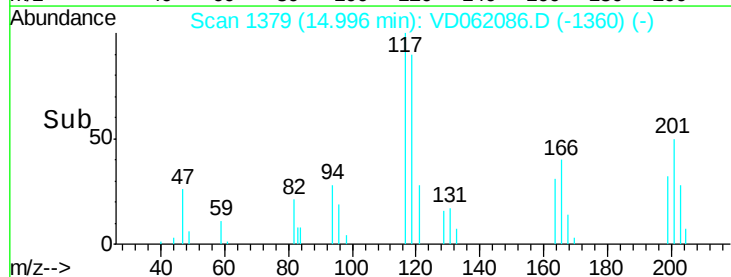
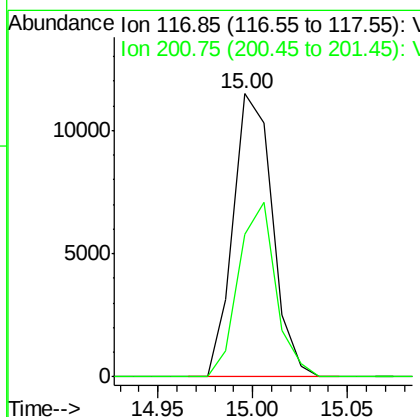
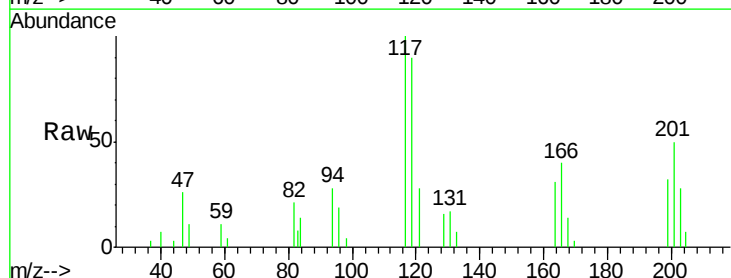
Manual Integrations
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#90
Hexachloroethane
Concen: 2.727 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	16439		
201	50.4		30.2	90.6





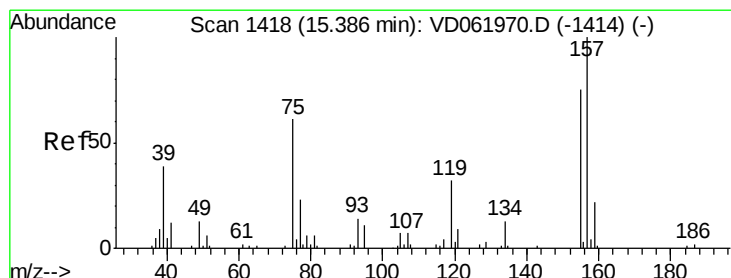
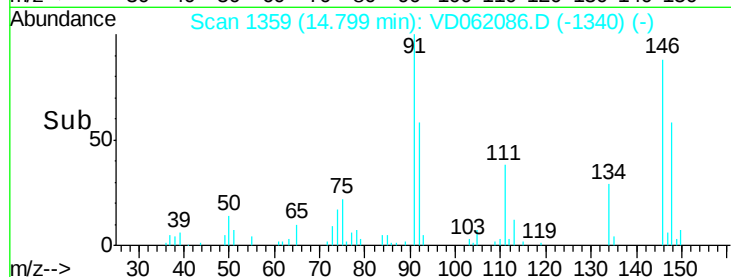
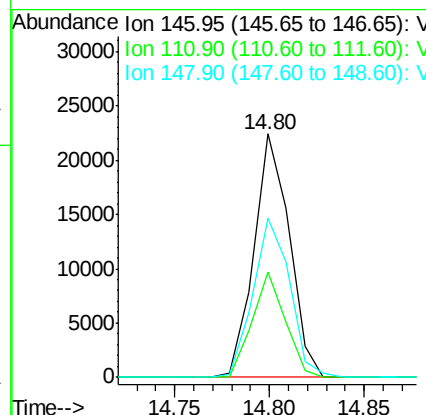
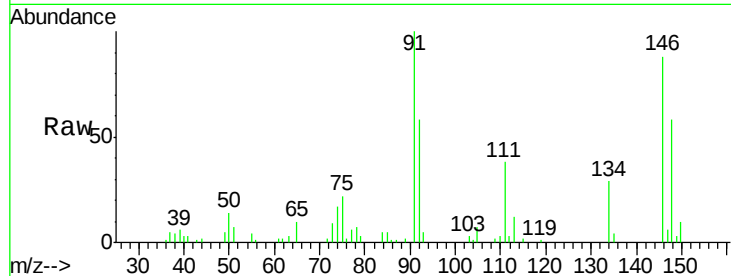
#91
 1,2-Dichlorobenzene
 Concen: 2.803 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.0	59.9
148	65.5	32.3	96.8

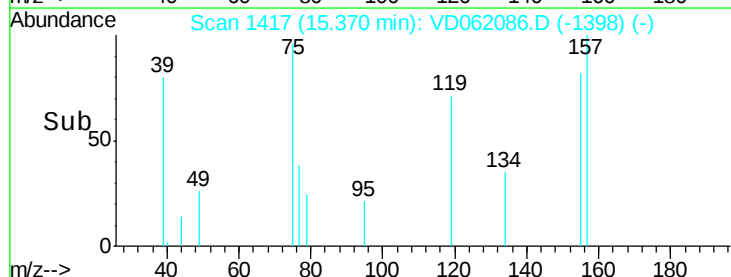
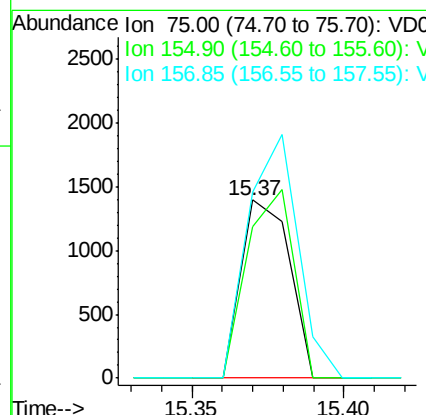
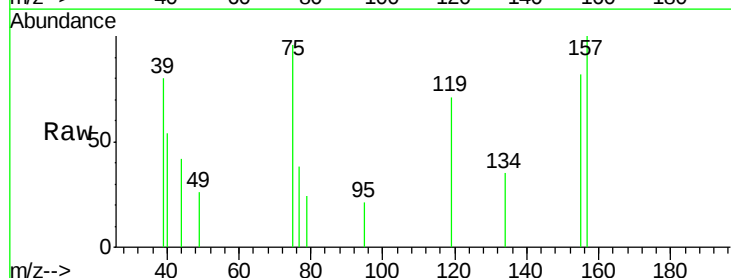
Manual Integrations
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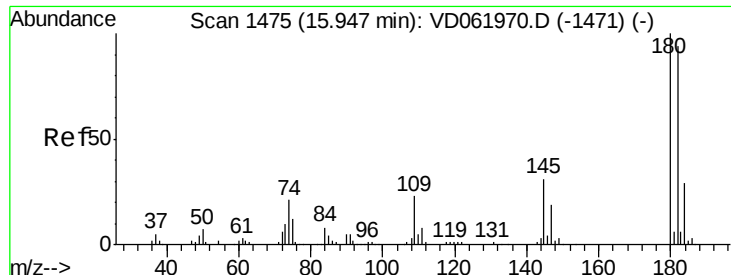
MMDadoda
 5/2/2019 7:23:32 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.375 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.2	55.3	165.8
157	104.5	67.8	203.2





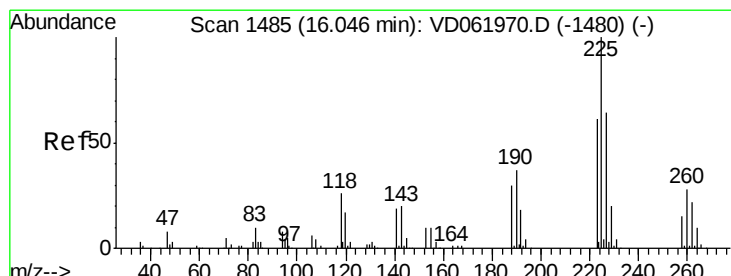
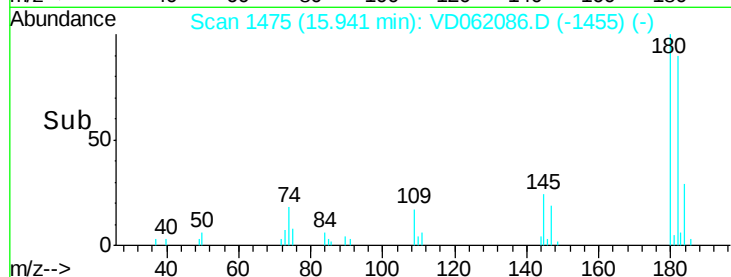
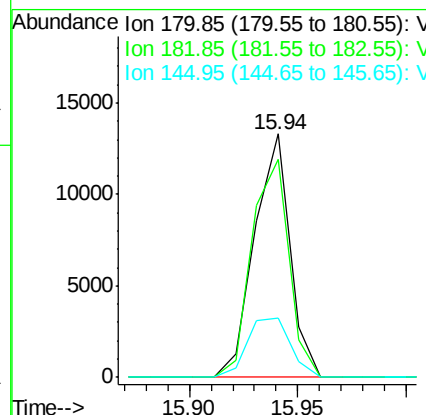
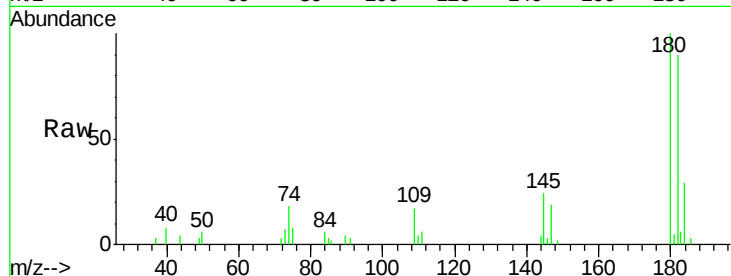
#93
 1,2,4-Trichlorobenzene
 Concen: 2.742 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.6	49.3	147.8
145	27.7	16.2	48.6

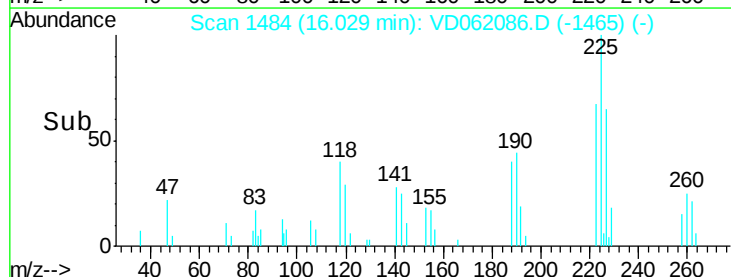
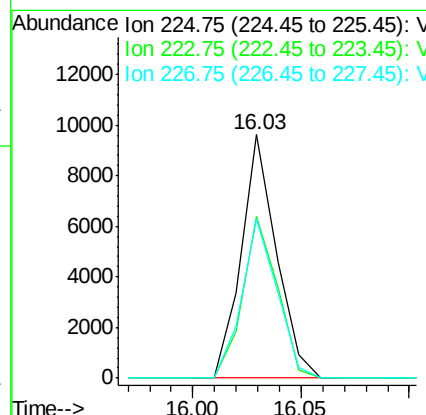
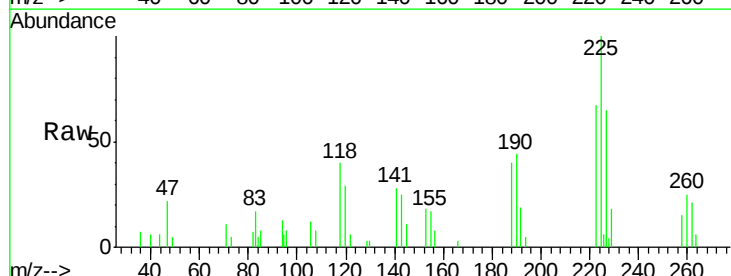
Manual Integrations
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 5/2/2019 7:23:32 AM



#94
 Hexachlorobutadiene
 Concen: 2.644 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.01 min
 Lab File: VD062086.D
 Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.6	30.6	92.0
227	65.4	32.0	96.2





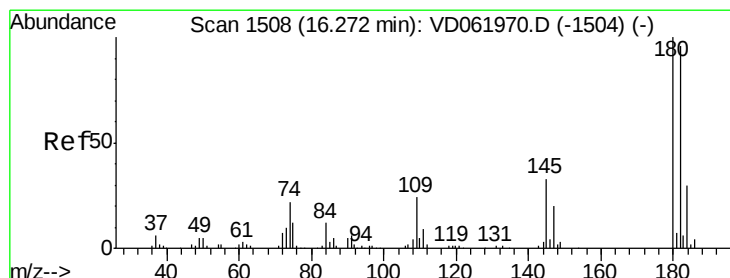
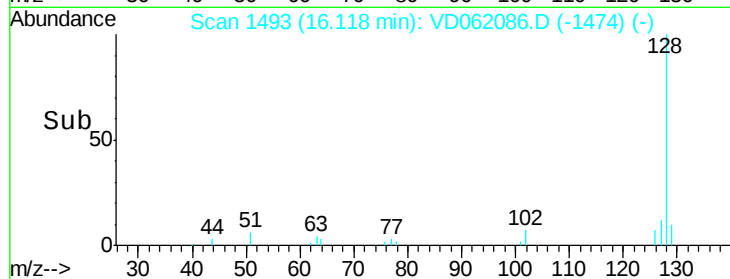
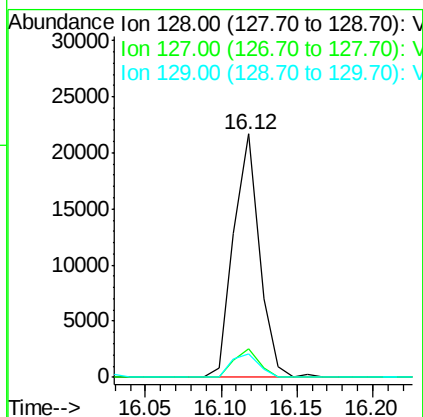
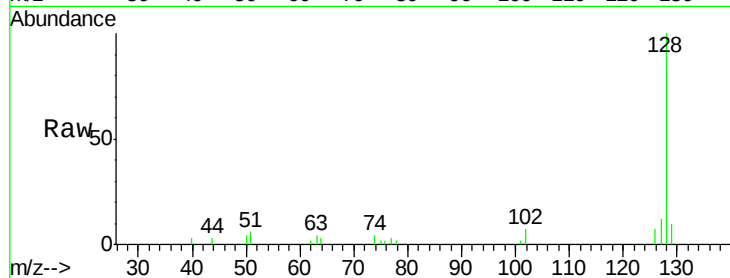
#95
Naphthalene
Concen: 2.846 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.8	14.8
129	9.5	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/2/2019 7:23:32 AM



#96
1,2,3-Trichlorobenzene
Concen: 3.220 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD062086.D
Acq: 30 Apr 2019 14:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.1	47.0	141.0
145	33.1	17.0	51.0

