

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

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

Quant Time: Oct 05 02:18:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 04 01:55:35 2019
 Response via : Initial Calibration

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

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

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.98	85	3269	2.623 ug/l #	53
3) Chloromethane	2.21	50	12173	3.189 ug/l #	86
4) Vinyl Chloride	2.35	62	10742	2.667 ug/l	95
5) Bromomethane	2.78	94	6787	2.621 ug/l #	63
6) Chloroethane	2.93	64	7683	2.884 ug/l	94
7) Trichlorofluoromethane	3.27	101	14421	2.708 ug/l	93
8) Diethyl Ether	3.71	74	2918	3.414 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	4334	2.940 ug/l #	60
10) Methyl Iodide	4.28	142	4270	2.102 ug/l #	45
11) Tert butyl alcohol	5.24	59	747	6.156 ug/l #	71
12) 1,1-Dichloroethene	4.06	96	4545	3.086 ug/l #	52
13) Acrolein	3.93	56	939	6.145 ug/l #	1
14) Allyl chloride	4.71	41	6789	2.773 ug/l	93
15) Acrylonitrile	5.43	53	5998	15.916 ug/l #	86
16) Acetone	4.16	43	7379	16.566 ug/l	99
17) Carbon Disulfide	4.39	76	12835	2.397 ug/l #	90
18) Methyl Acetate	4.71	43	1677	1.925 ug/l	99
19) Methyl tert-butyl Ether	5.49	73	9332	2.447 ug/l	97
20) Methylene Chloride	4.96	84	12475	5.457 ug/l #	90
21) trans-1,2-Dichloroethene	5.46	96	5073	2.767 ug/l #	65
22) Diisopropyl ether	6.36	45	12291	2.458 ug/l #	67
23) Vinyl Acetate	6.30	43	30598	10.285 ug/l #	91
24) 1,1-Dichloroethane	6.26	63	7746	2.515 ug/l #	90
25) 2-Butanone	7.22	43	7614	14.424 ug/l	94
26) 2,2-Dichloropropane	7.20	77	9006	3.232 ug/l #	70
27) cis-1,2-Dichloroethene	7.21	96	5891	2.839 ug/l	90
28) Bromochloromethane	7.55	49	3744	3.244 ug/l #	76
29) Tetrahydrofuran	7.57	42	4610	14.962 ug/l #	87
30) Chloroform	7.71	83	9538	2.851 ug/l #	78
31) Cyclohexane	7.98	56	10960	3.795 ug/l #	58
32) 1,1,1-Trichloroethane	7.90	97	6930	2.415 ug/l #	37
36) 1,1-Dichloropropene	8.11	75	6645	2.445 ug/l	95
37) Ethyl Acetate	7.30	43	3672	2.977 ug/l #	78
38) Carbon Tetrachloride	8.10	117	6971	2.538 ug/l #	82

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

39) Methylcyclohexane	9.36	83	9162	2.742	ug/l #	75
40) Benzene	8.35	78	19248	2.471	ug/l #	81
41) Methacrylonitrile	7.51	41	1058	1.679	ug/l #	31
42) 1,2-Dichloroethane	8.43	62	5364	2.381	ug/l	96
43) Isopropyl Acetate	8.46	43	5756	2.525	ug/l #	61
44) Trichloroethene	9.11	130	5590	2.489	ug/l	95
45) 1,2-Dichloropropane	9.40	63	4774	2.504	ug/l #	71
46) Dibromomethane	9.47	93	1087	1.001	ug/l #	1
47) Bromodichloromethane	9.66	83	6620	2.368	ug/l	90
48) Methyl methacrylate	9.46	41	2531	2.318	ug/l #	78
49) 1,4-Dioxane	9.46	88	206	13.901	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	14497	12.264	ug/l	93
52) Toluene	10.40	92	12356	2.311	ug/l	92
53) t-1,3-Dichloropropene	10.62	75	5786	2.121	ug/l #	85
54) cis-1,3-Dichloropropene	10.09	75	7357	2.343	ug/l	93
55) 1,1,2-Trichloroethane	10.80	97	3936	2.568	ug/l #	70
56) Ethyl methacrylate	10.66	69	4326	2.229	ug/l #	79
57) 1,3-Dichloropropane	10.94	76	6019	2.295	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.94	63	8914	10.683	ug/l	94
59) 2-Hexanone	10.99	43	9828	11.494	ug/l	97
60) Dibromochloromethane	11.14	129	4698	2.354	ug/l	84
61) 1,2-Dibromoethane	11.24	107	3815	2.567	ug/l	97
64) Tetrachloroethene	10.87	164	4033	2.069	ug/l #	78
65) Chlorobenzene	11.67	112	13810	2.409	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	4656	2.204	ug/l	93
67) Ethyl Benzene	11.74	91	24430	2.363	ug/l	100
68) m/p-Xylenes	11.85	106	17947	4.497	ug/l	96
69) o-Xylene	12.17	106	8089	2.117	ug/l	98
70) Styrene	12.20	104	14085	2.177	ug/l	98
71) Bromoform	12.35	173	2183	1.925	ug/l #	89
73) Isopropylbenzene	12.48	105	22199	2.321	ug/l	94
74) N-amyl acetate	12.29	43	5051	2.453	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	4116	2.473	ug/l #	92
76) 1,2,3-Trichloropropane	12.78	75	5391	5.657	ug/l #	100
77) Bromobenzene	12.76	156	5034	2.112	ug/l	68
78) n-propylbenzene	12.82	91	26525	2.362	ug/l	100
79) 2-Chlorotoluene	12.91	91	14589	2.356	ug/l	95
80) 1,3,5-Trimethylbenzene	12.96	105	17536	2.197	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.63	75	67079	124.552	ug/l #	12
82) 4-Chlorotoluene	13.01	91	14723	2.242	ug/l	99
83) tert-Butylbenzene	13.23	119	14728	2.074	ug/l	91
84) 1,2,4-Trimethylbenzene	13.27	105	16982	2.064	ug/l	96
85) sec-Butylbenzene	13.40	105	23146	2.413	ug/l	99
86) p-Isopropyltoluene	13.51	119	19537	2.153	ug/l	96
87) 1,3-Dichlorobenzene	13.52	146	10563	2.243	ug/l	94
88) 1,4-Dichlorobenzene	13.60	146	11734	2.526	ug/l	85
89) n-Butylbenzene	13.84	91	19200	2.273	ug/l	95
90) Hexachloroethane	14.11	117	4138	2.535	ug/l	79
91) 1,2-Dichlorobenzene	13.89	146	8482	2.090	ug/l	84
92) 1,2-Dibromo-3-Chloropropan	14.51	75	518	1.799	ug/l	77

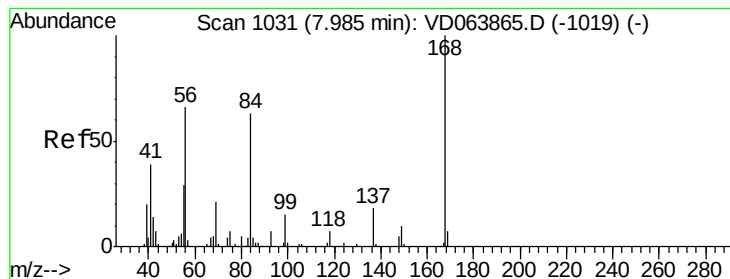
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QLast Update : Fri Oct 04 01:55:35 2019
Response via : Initial Calibration

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

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

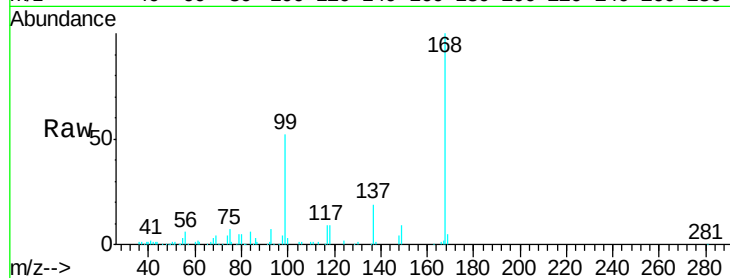
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion:168 Resp: 175731

Ion Ratio Lower Upper

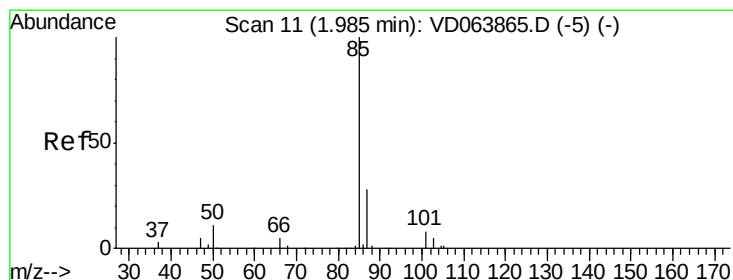
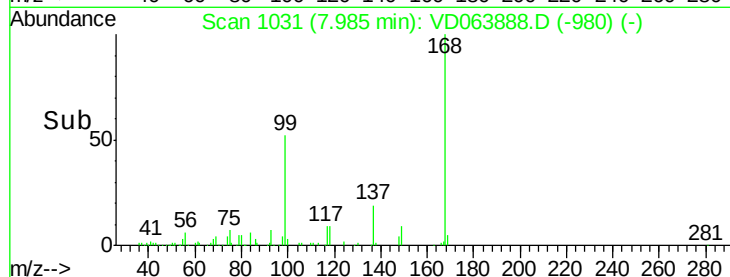
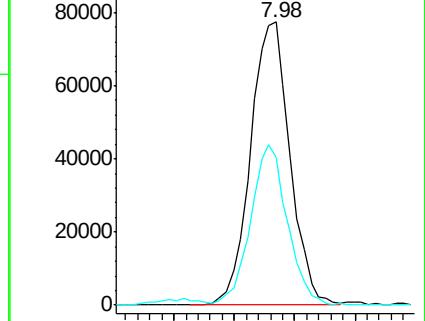
168 100

99 51.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 2.623 ug/l

RT: 1.98 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063888.D

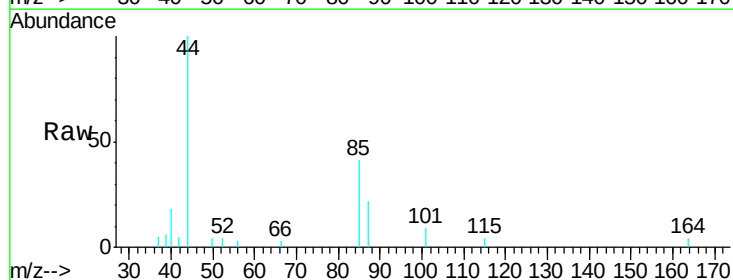
Acq: 04 Oct 2019 16:44

Tgt Ion: 85 Resp: 3269

Ion Ratio Lower Upper

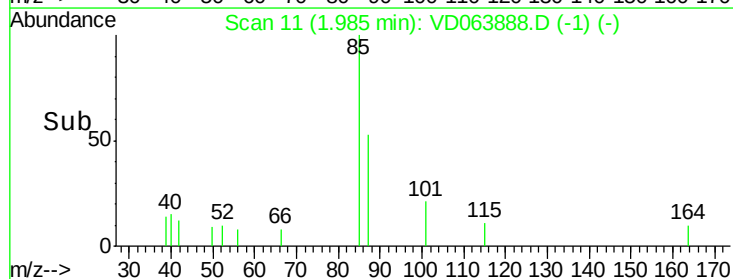
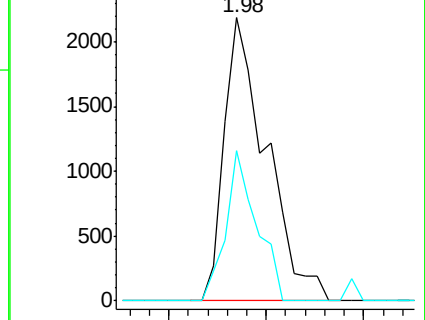
85 100

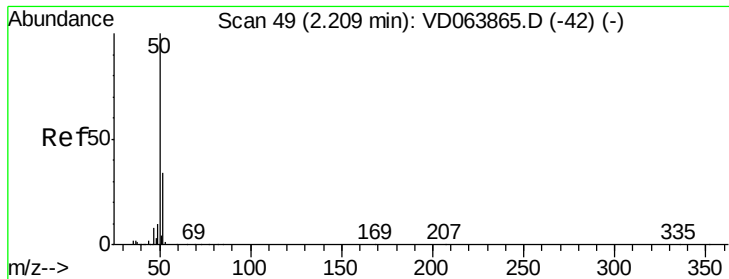
87 53.0 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

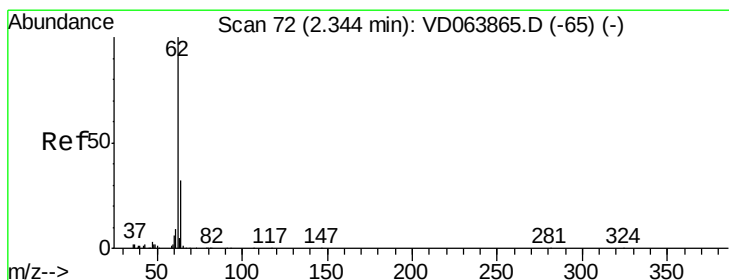
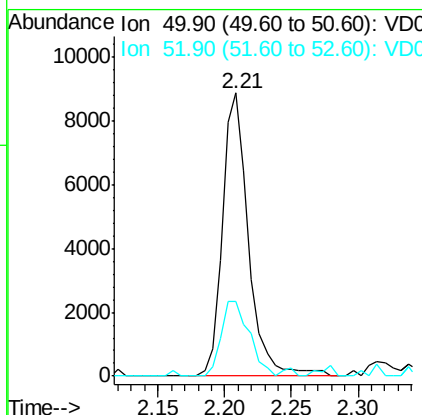
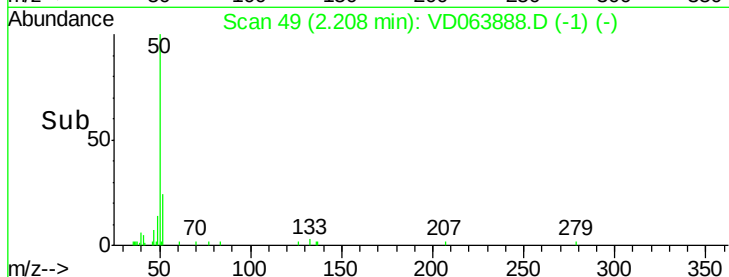
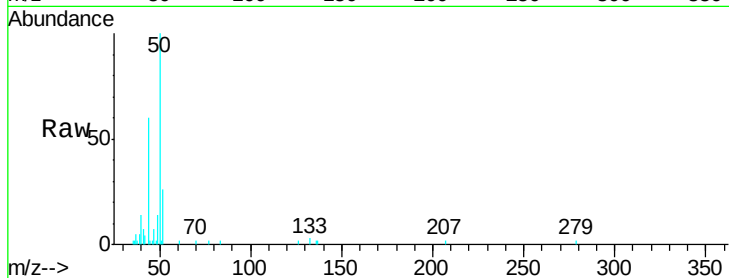




#3
Chloromethane
Concen: 3.189 ug/l
RT: 2.21 min Scan# 49
Delta R.T. 0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

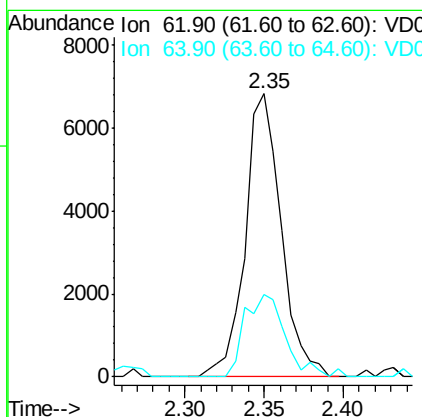
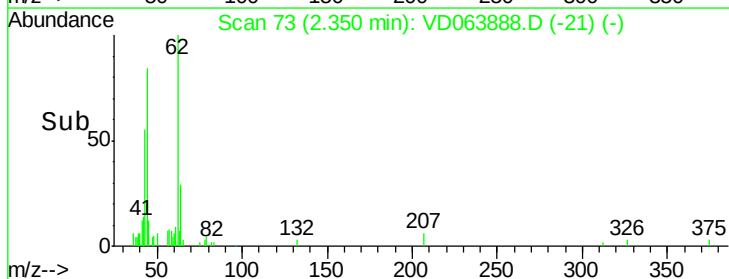
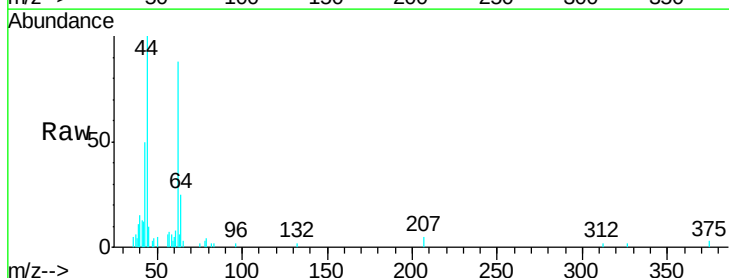
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

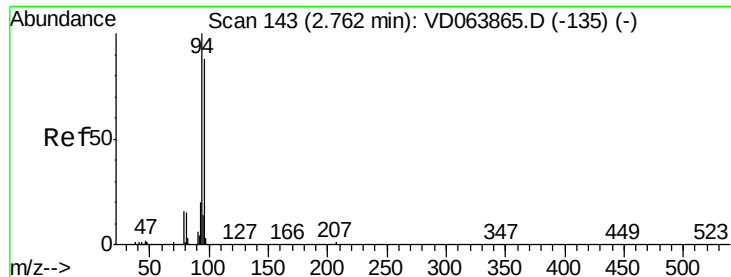
Tgt Ion: 50 Resp: 12173
Ion Ratio Lower Upper
50 100
52 26.5 27.5 41.3#



#4
Vinyl Chloride
Concen: 2.667 ug/l
RT: 2.35 min Scan# 73
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 62 Resp: 10742
Ion Ratio Lower Upper
62 100
64 28.9 25.4 38.0





#5

Bromomethane

Concen: 2.621 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.02 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

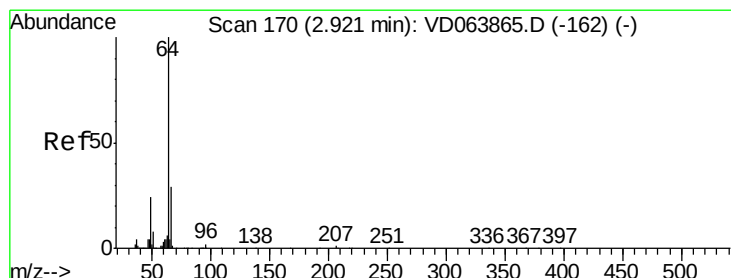
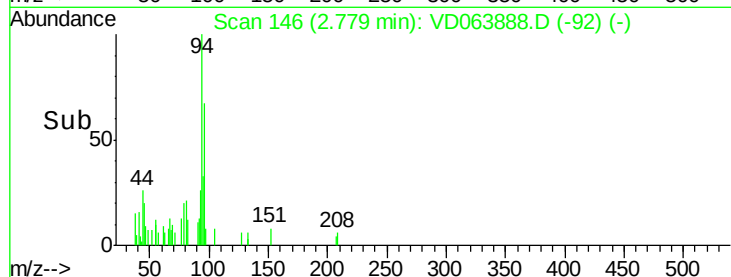
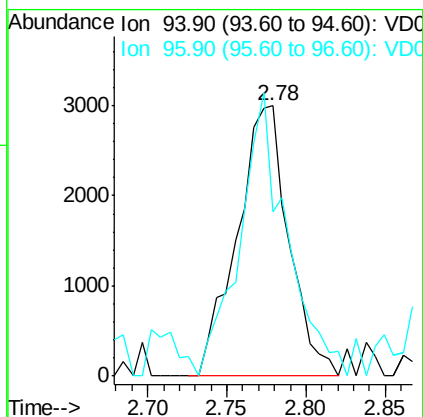
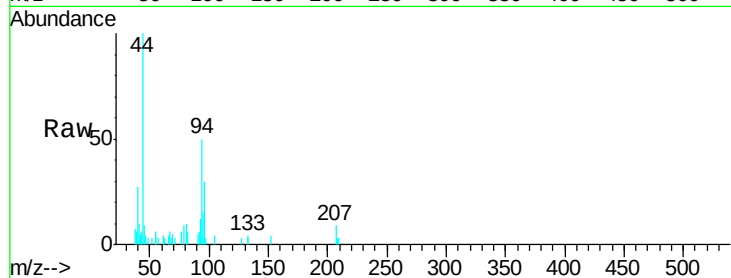
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 94 Resp: 6787

Ion Ratio Lower Upper

94 100

96 53.6 70.8 106.2#



#6

Chloroethane

Concen: 2.884 ug/l

RT: 2.93 min Scan# 172

Delta R.T. 0.01 min

Lab File: VD063888.D

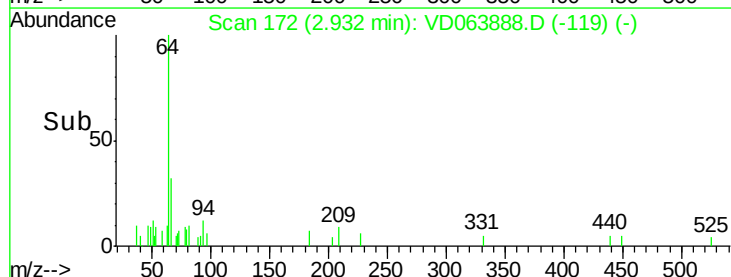
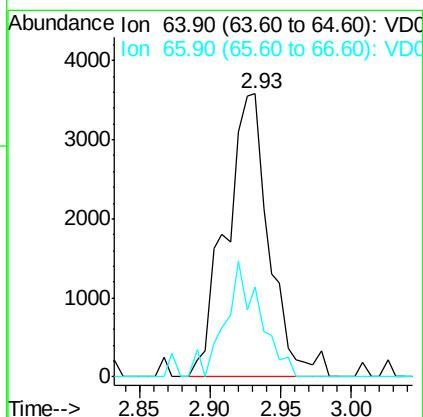
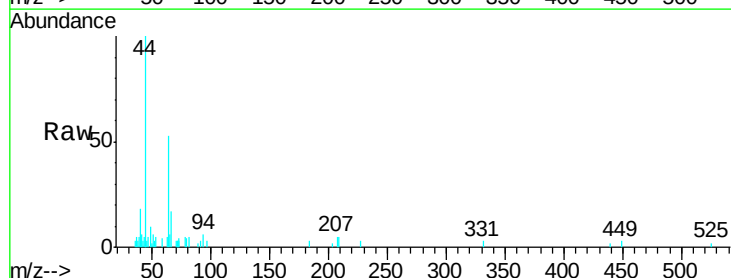
Acq: 04 Oct 2019 16:44

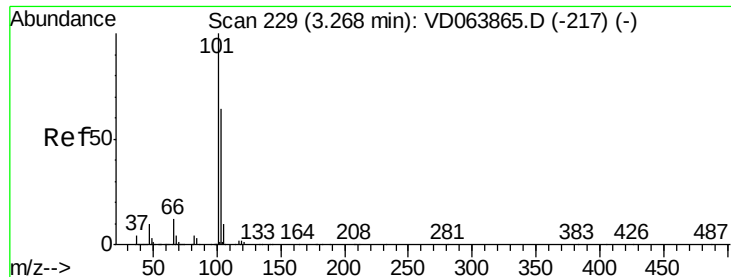
Tgt Ion: 64 Resp: 7683

Ion Ratio Lower Upper

64 100

66 31.6 23.0 34.4





#7

Trichlorofluoromethane

Concen: 2.708 ug/l

RT: 3.27 min Scan# 229

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

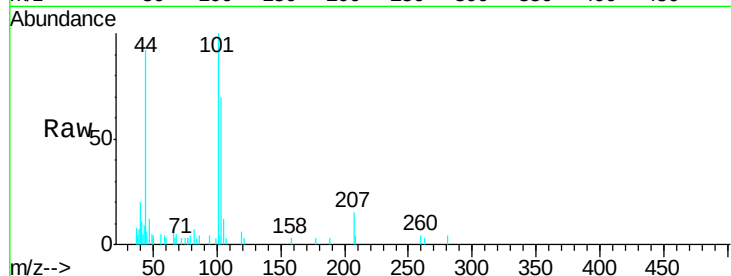
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion:101 Resp: 14421

Ion Ratio Lower Upper

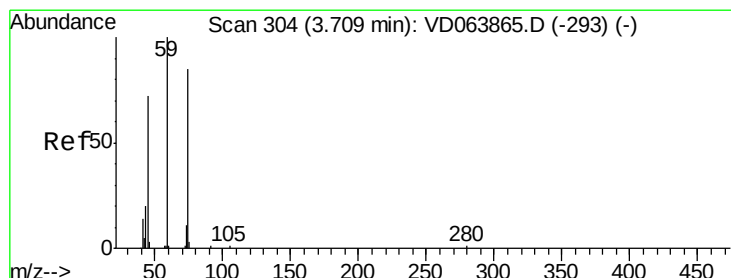
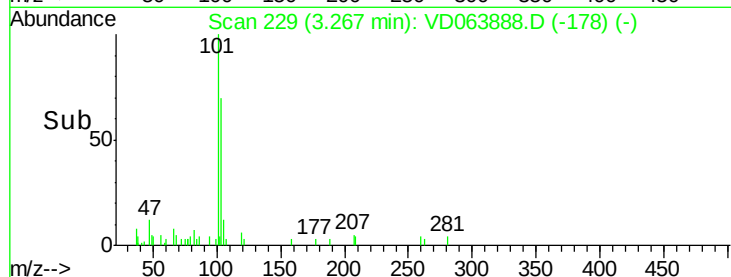
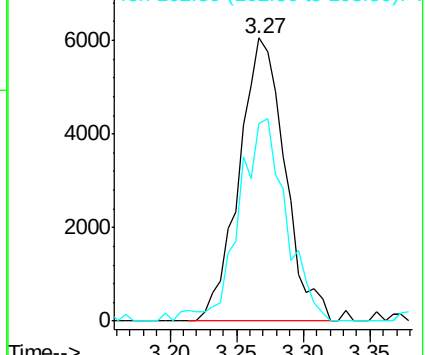
101 100

103 69.7 51.1 76.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 3.414 ug/l

RT: 3.71 min Scan# 304

Delta R.T. -0.00 min

Lab File: VD063888.D

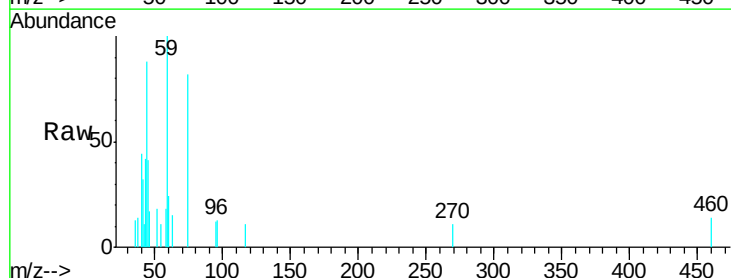
Acq: 04 Oct 2019 16:44

Tgt Ion: 74 Resp: 2918

Ion Ratio Lower Upper

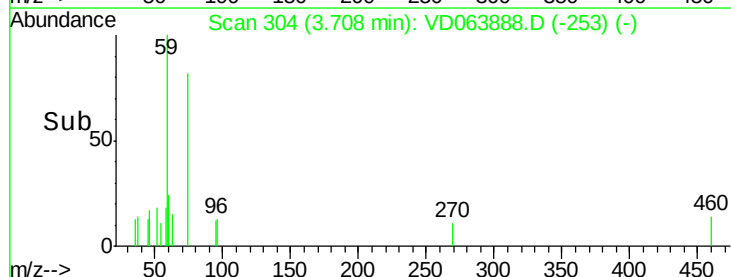
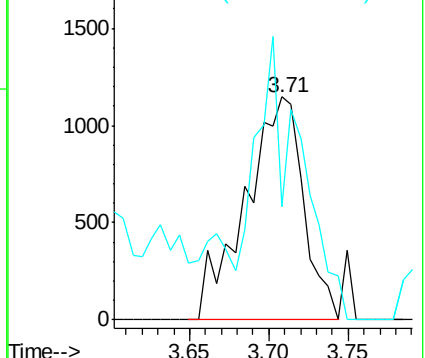
74 100

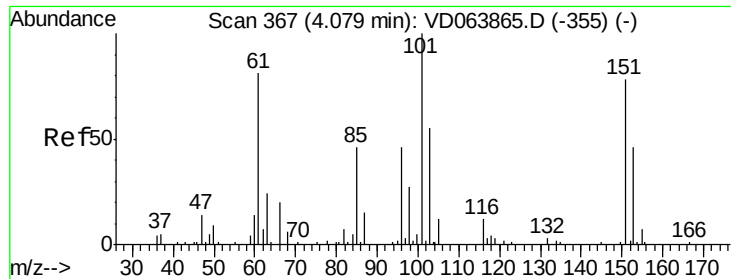
45 97.6 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.940 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

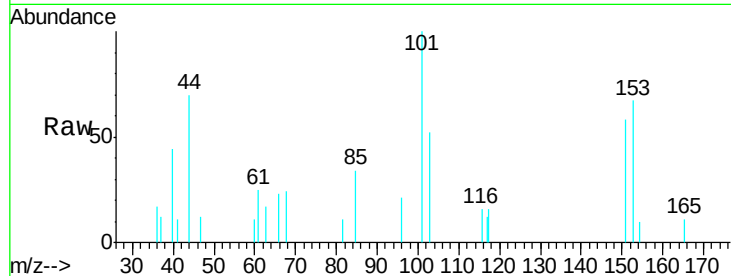
Tgt Ion:101 Resp: 4334

Ion Ratio Lower Upper

101 100

85 0.0 37.5 56.3#

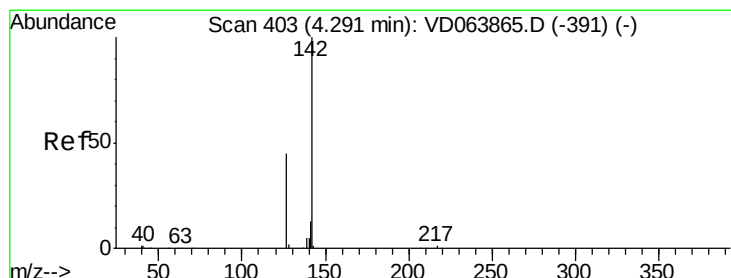
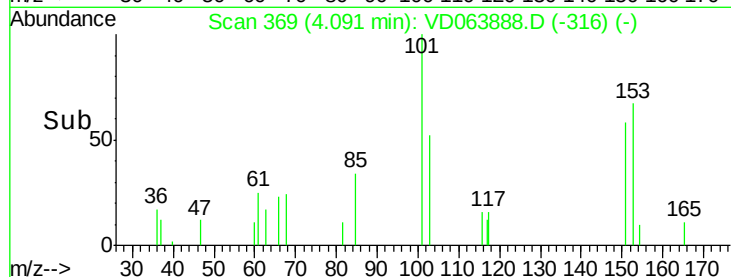
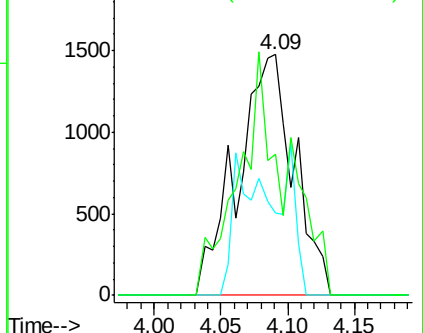
151 61.5 65.5 98.3#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.102 ug/l

RT: 4.28 min Scan# 402

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

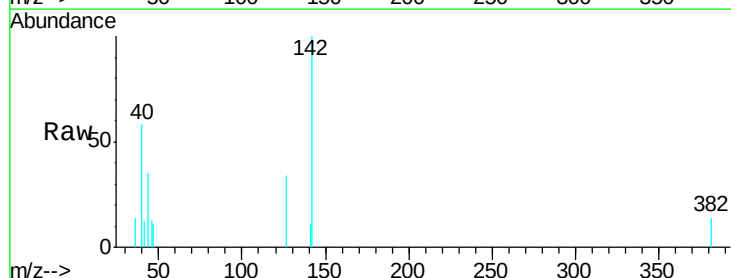
Tgt Ion:142 Resp: 4270

Ion Ratio Lower Upper

142 100

127 0.0 35.3 52.9#

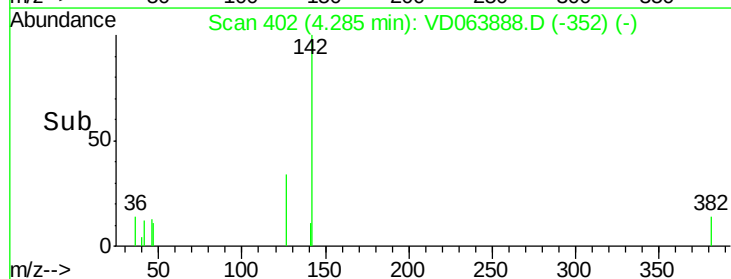
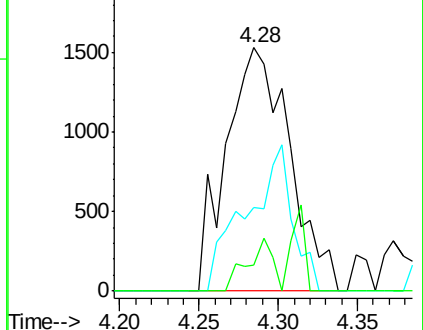
141 8.6 12.2 18.2#

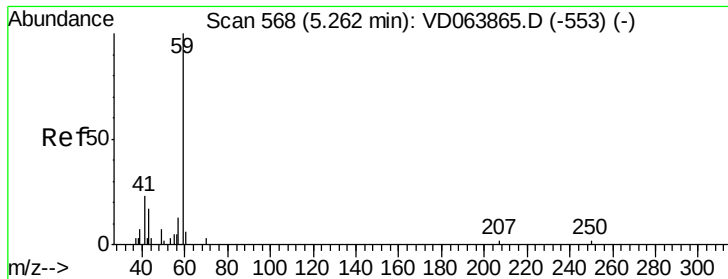


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



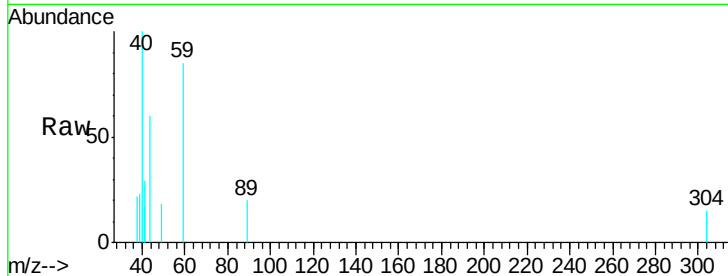


#11

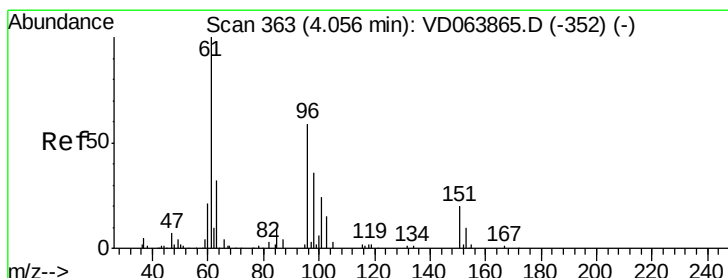
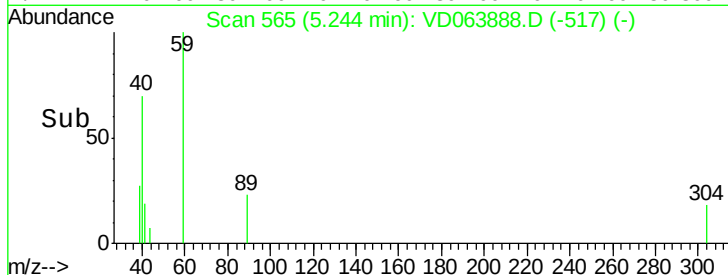
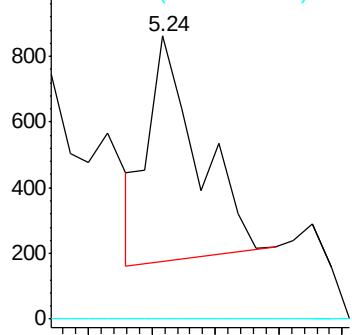
Tert butyl alcohol
 Concen: 6.156 ug/l
 RT: 5.24 min Scan# 565
 Delta R.T. -0.02 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

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

Tgt Ion: 59 Resp: 747
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#



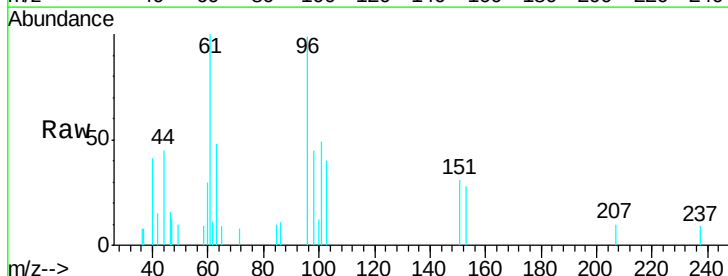
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



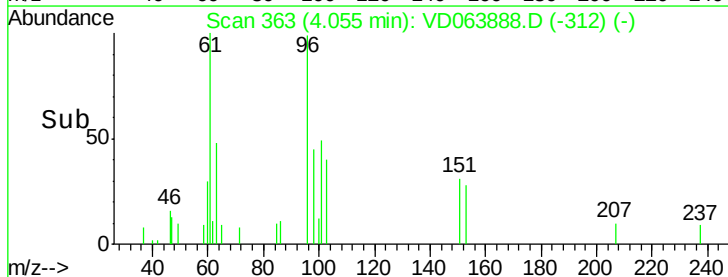
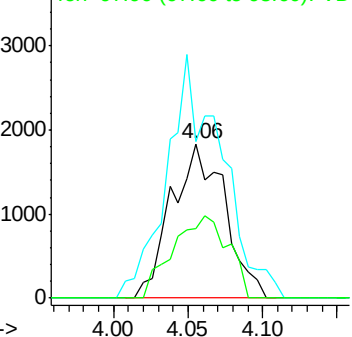
#12

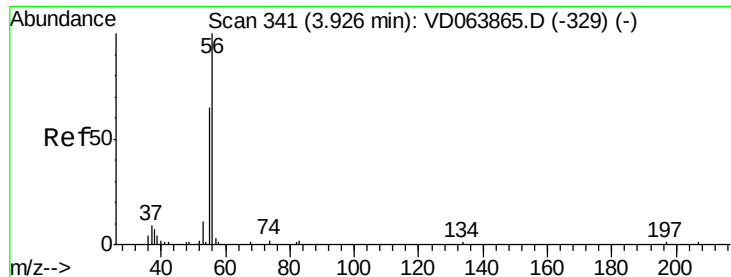
1,1-Dichloroethene
 Concen: 3.086 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

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



Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC





#13

Acrolein

Concen: 6.145 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

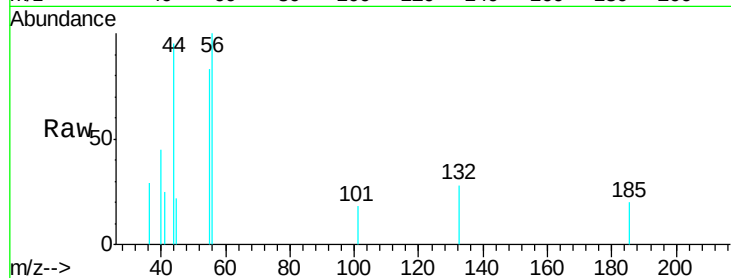
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 56 Resp: 939

Ion Ratio Lower Upper

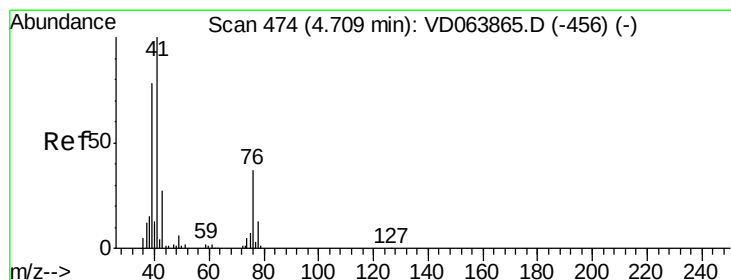
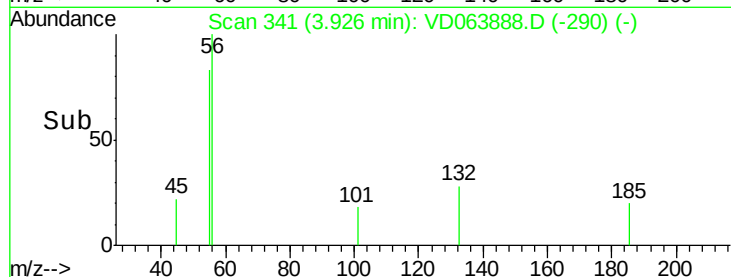
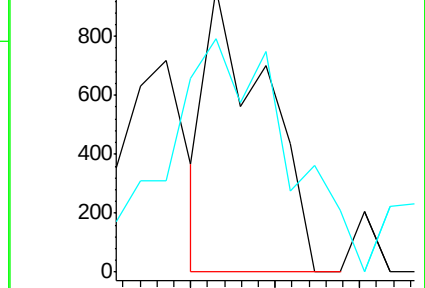
56 100

55 166.2 53.0 79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.773 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

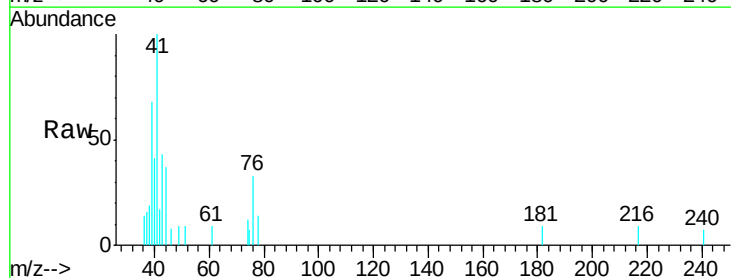
Tgt Ion: 41 Resp: 6789

Ion Ratio Lower Upper

41 100

39 85.6 61.8 92.6

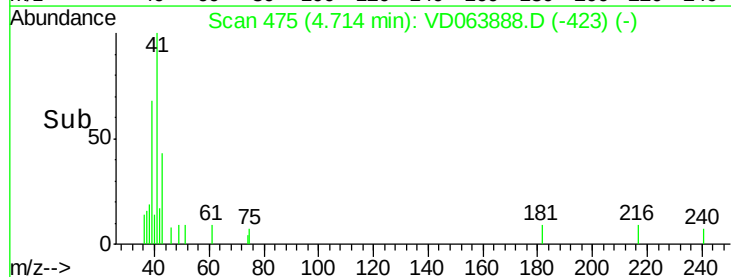
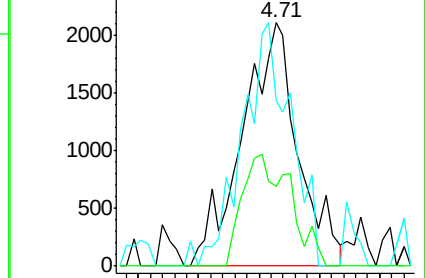
76 39.6 31.3 46.9

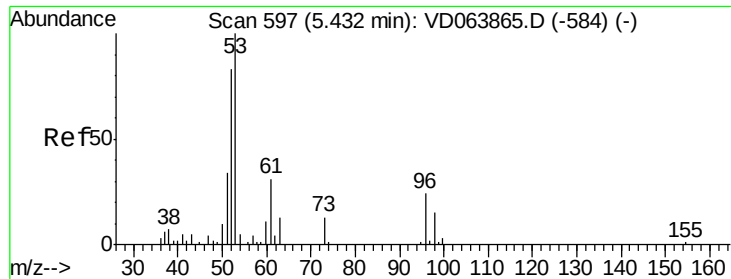


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 15.916 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

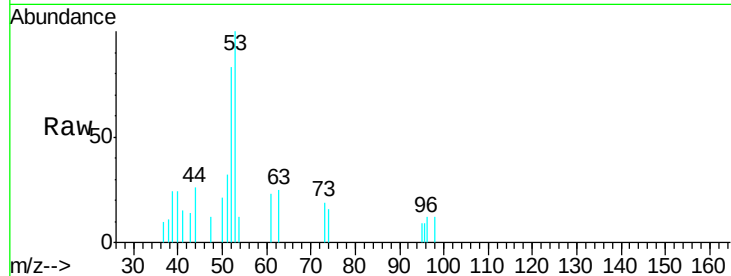
Tgt Ion: 53 Resp: 5998

Ion Ratio Lower Upper

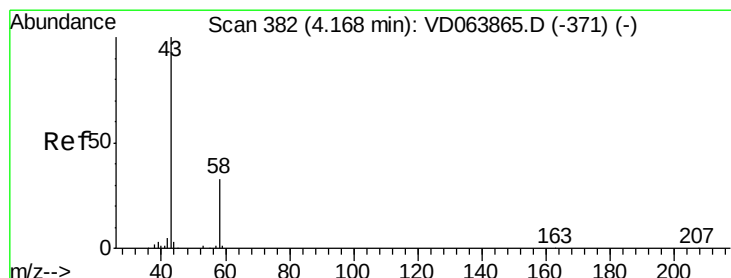
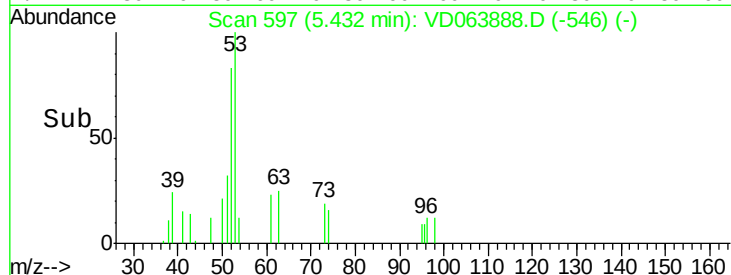
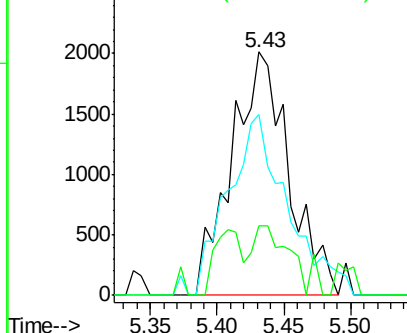
53 100

52 78.6 67.3 100.9

51 19.7 30.5 45.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 16.566 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD063888.D

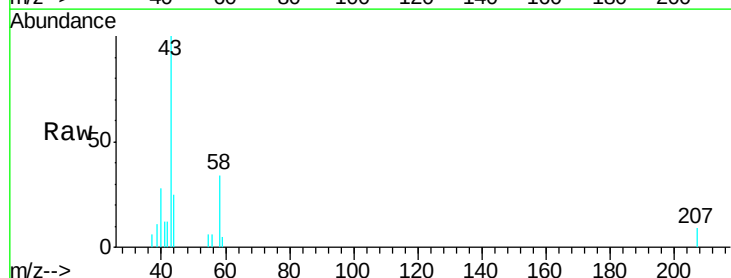
Acq: 04 Oct 2019 16:44

Tgt Ion: 43 Resp: 7379

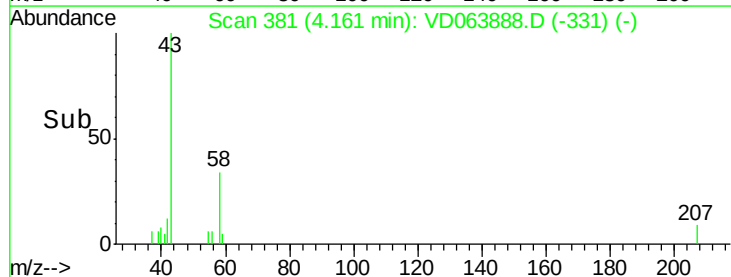
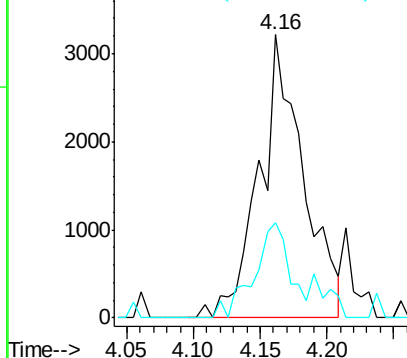
Ion Ratio Lower Upper

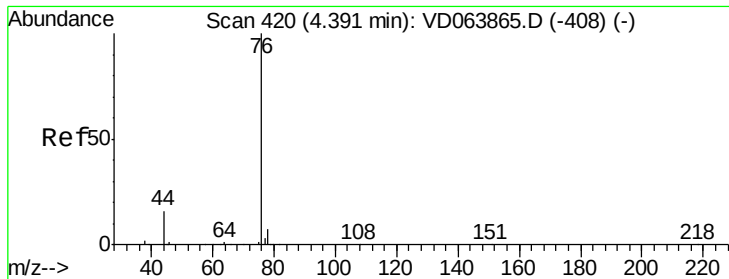
43 100

58 33.6 26.2 39.4



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

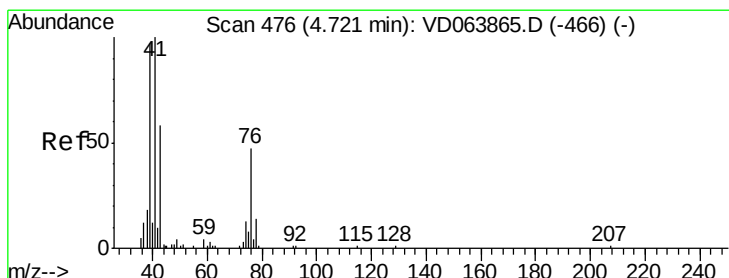
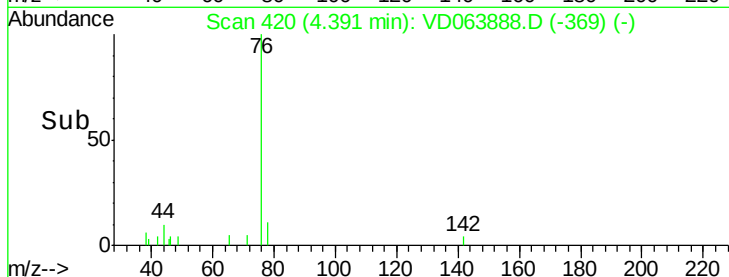
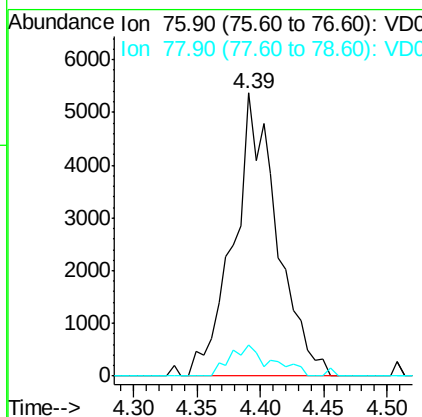
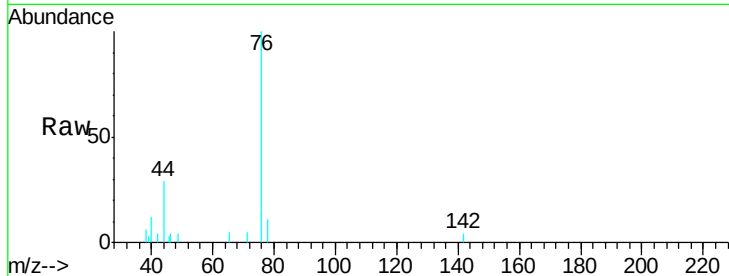




#17
Carbon Disulfide
Concen: 2.397 ug/l
RT: 4.39 min Scan# 420
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

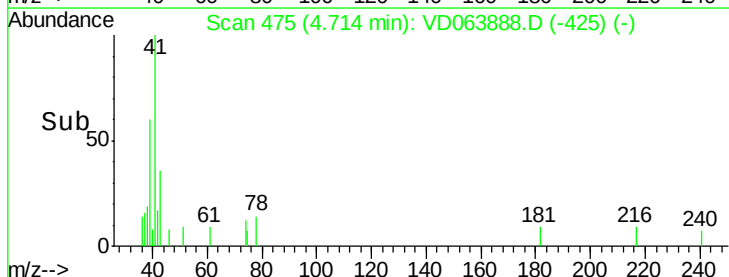
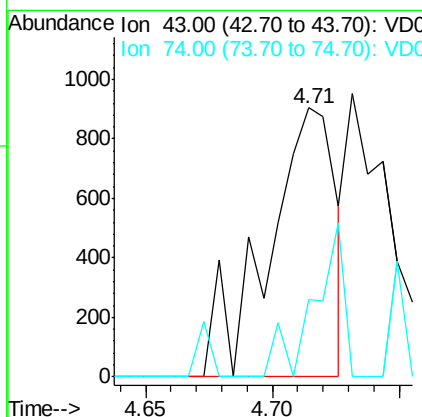
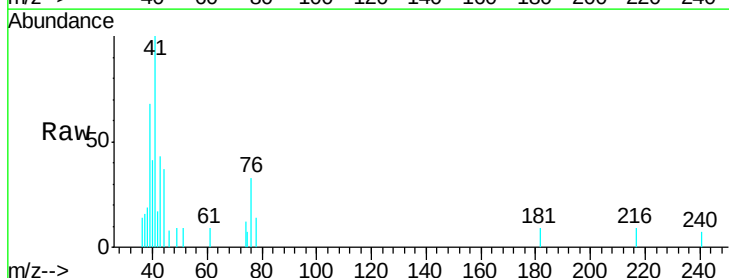
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

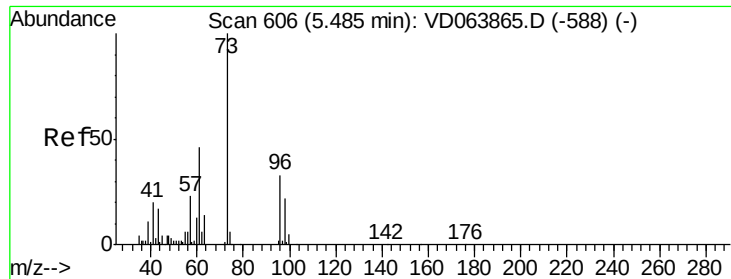
Tgt Ion: 76 Resp: 12835
Ion Ratio Lower Upper
76 100
78 10.8 5.8 8.8#



#18
Methyl Acetate
Concen: 1.925 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 43 Resp: 1677
Ion Ratio Lower Upper
43 100
74 25.5 20.8 31.2



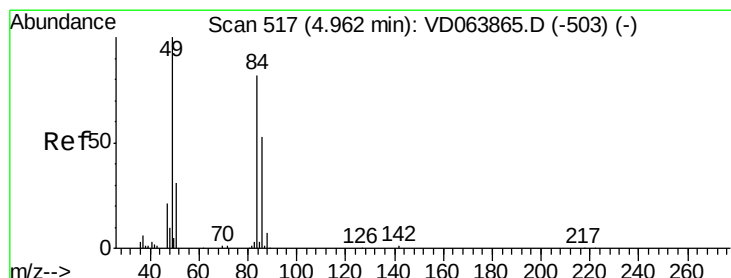
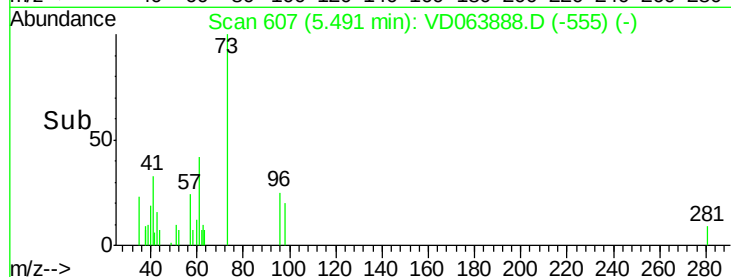
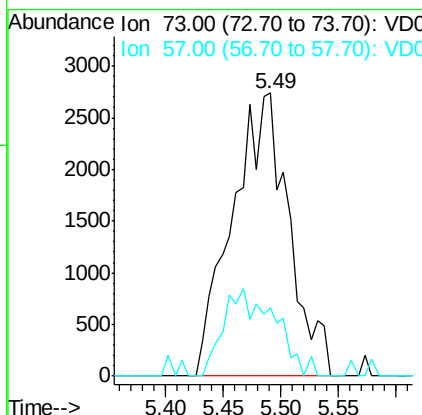
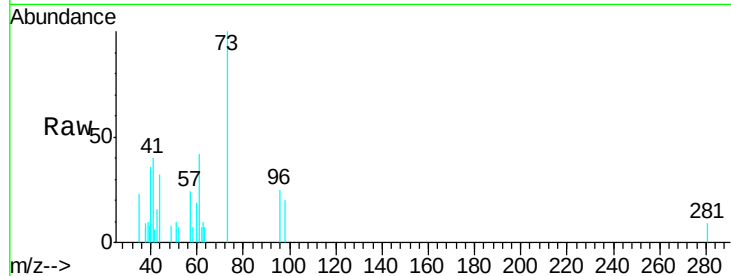


#19

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

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

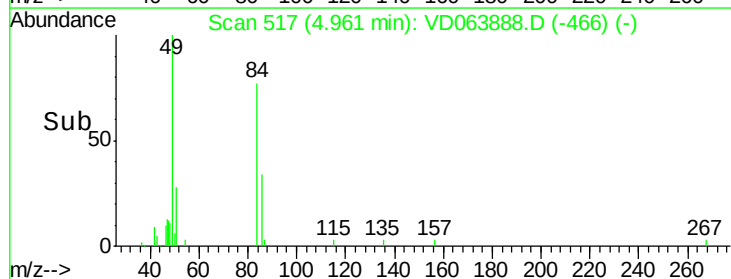
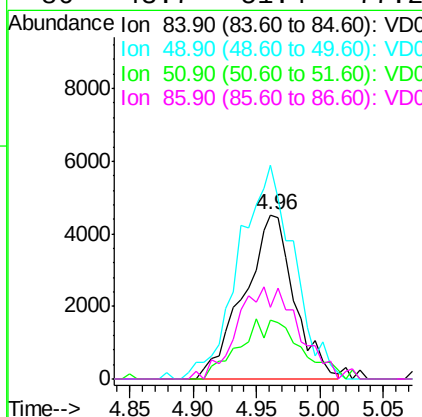
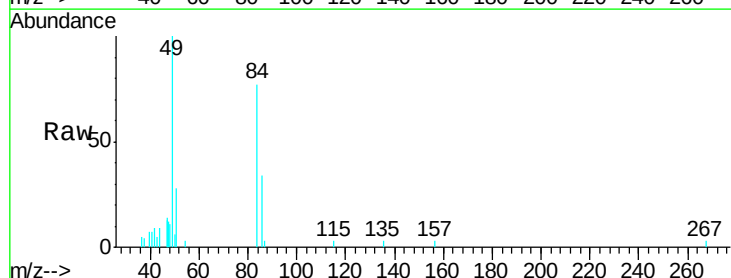
Tgt Ion: 73 Resp: 9332
 Ion Ratio Lower Upper
 73 100
 57 24.3 18.1 27.1

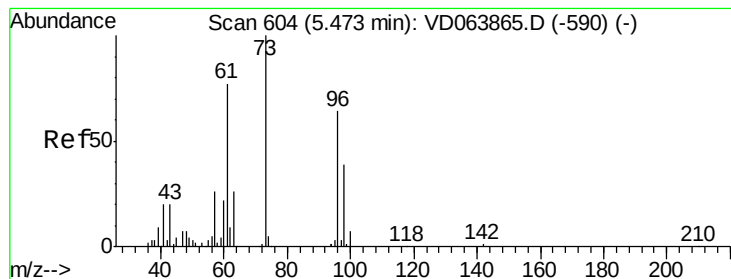


#20

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

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





#21

trans-1,2-Dichloroethene

Concen: 2.767 ug/l

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

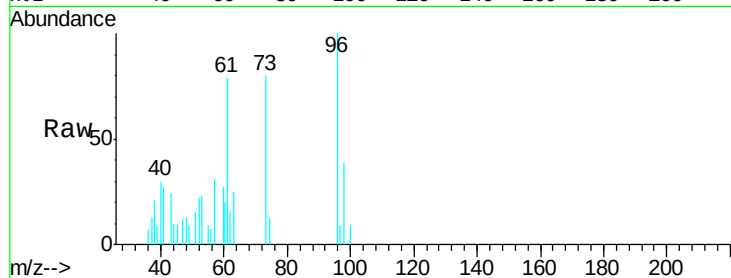
Tgt Ion: 96 Resp: 5073

Ion Ratio Lower Upper

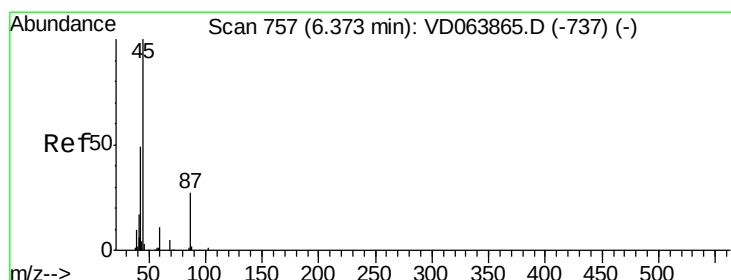
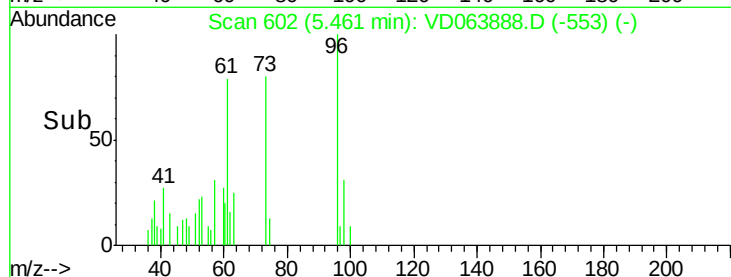
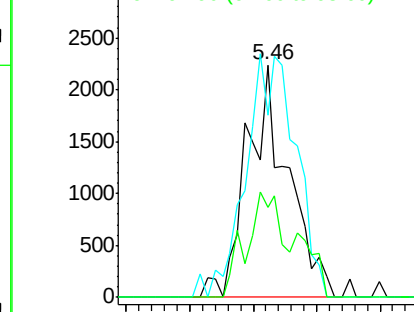
96 100

61 78.6 96.6 145.0#

98 38.6 48.7 73.1#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 2.458 ug/l

RT: 6.36 min Scan# 755

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion: 45 Resp: 12291

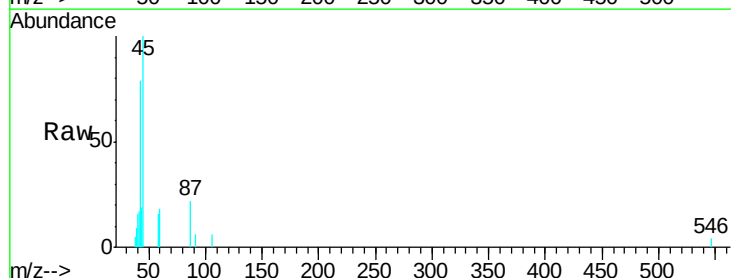
Ion Ratio Lower Upper

45 100

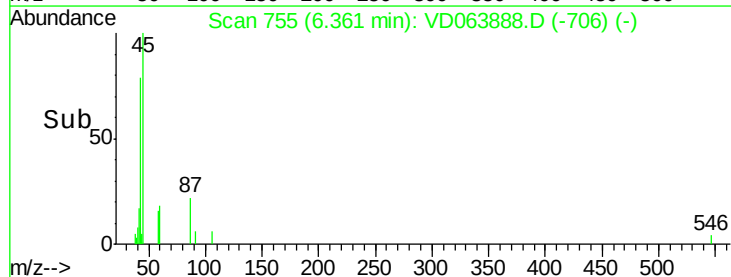
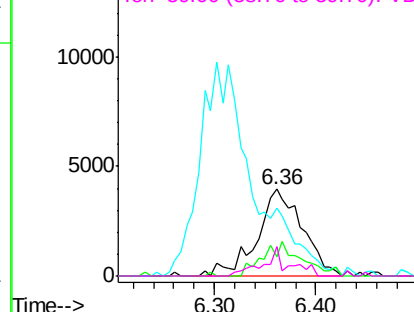
43 79.0 41.2 61.8#

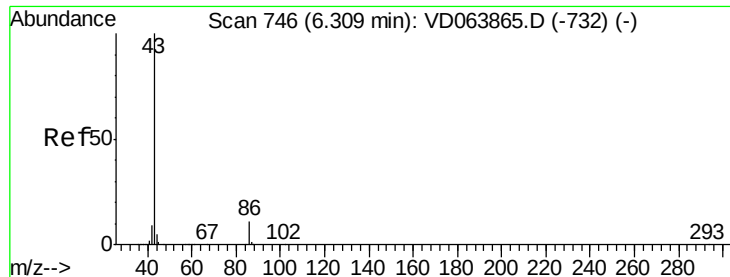
87 21.7 22.2 33.4#

59 33.5 9.2 13.8#



Abundance Ion 45.00 (44.70 to 45.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 10.285 ug/l

RT: 6.30 min Scan# 745

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

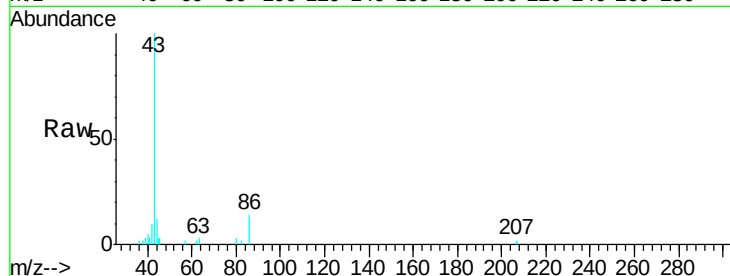
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 43 Resp: 30598

Ion Ratio Lower Upper

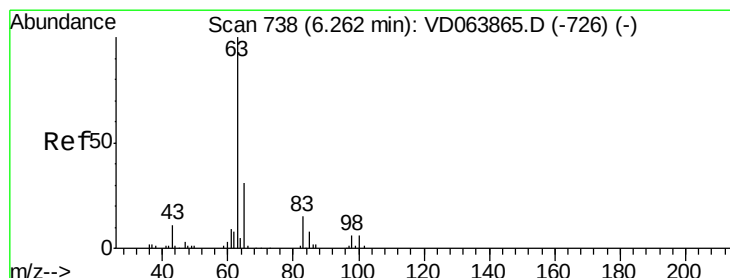
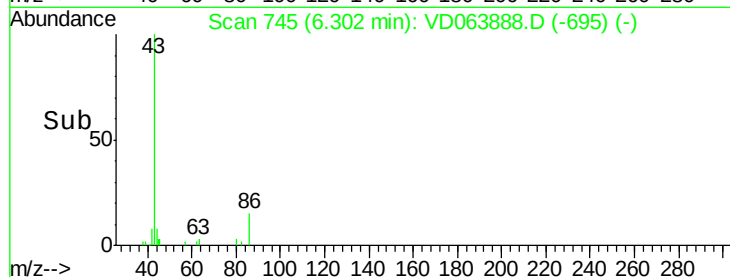
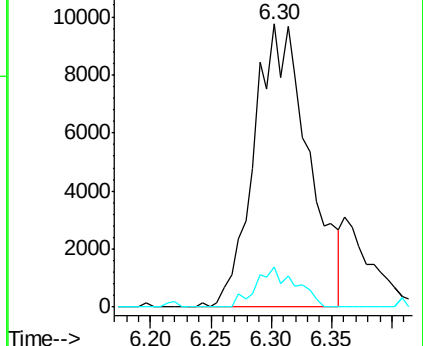
43 100

86 14.2 8.8 13.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 2.515 ug/l

RT: 6.26 min Scan# 737

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

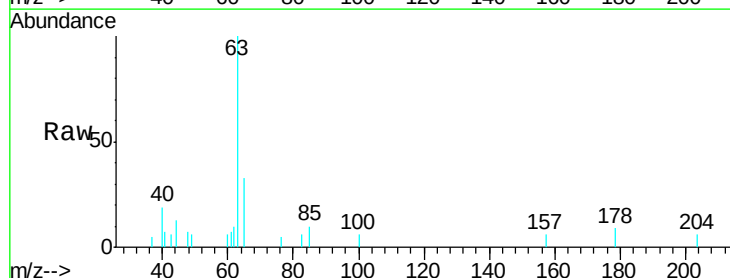
Tgt Ion: 63 Resp: 7746

Ion Ratio Lower Upper

63 100

98 0.0 3.1 9.4#

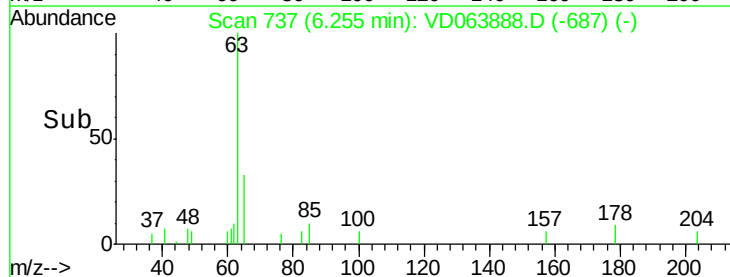
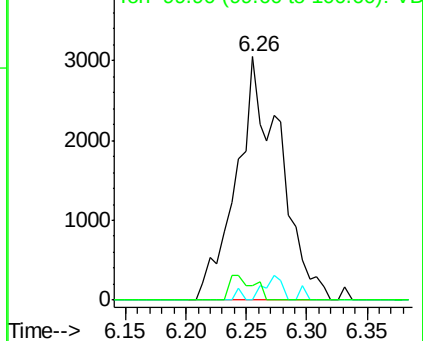
100 6.0 3.0 9.2

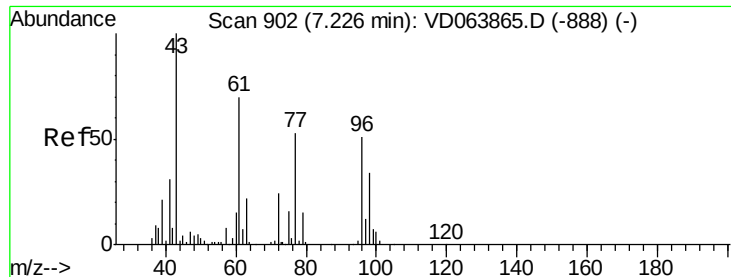


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 14.424 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

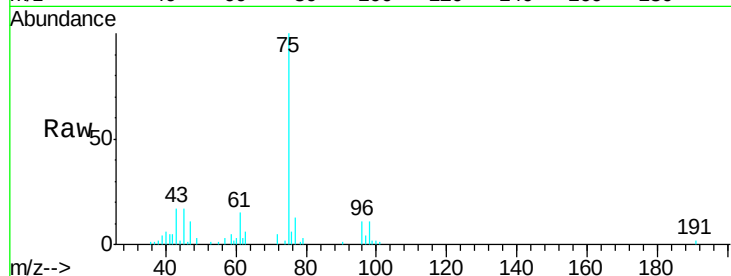
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 43 Resp: 7614

Ion Ratio Lower Upper

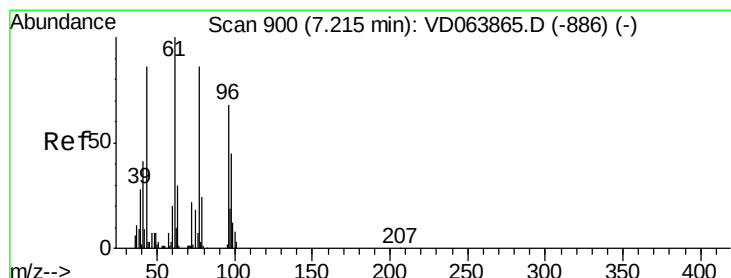
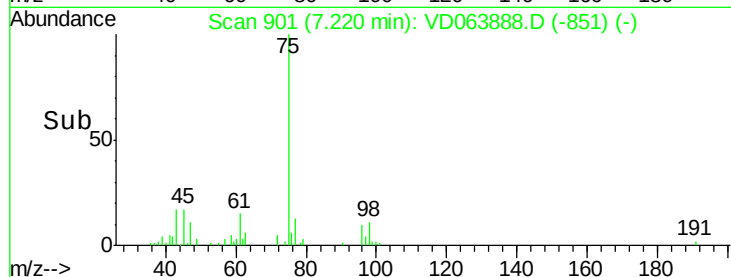
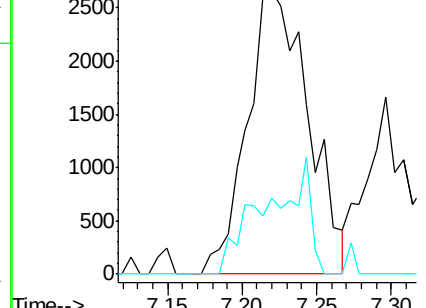
43 100

72 26.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.232 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD063888.D

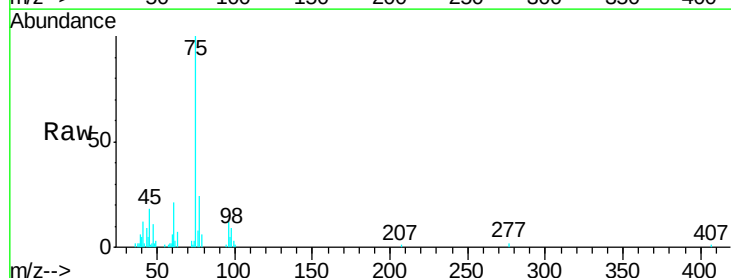
Acq: 04 Oct 2019 16:44

Tgt Ion: 77 Resp: 9006

Ion Ratio Lower Upper

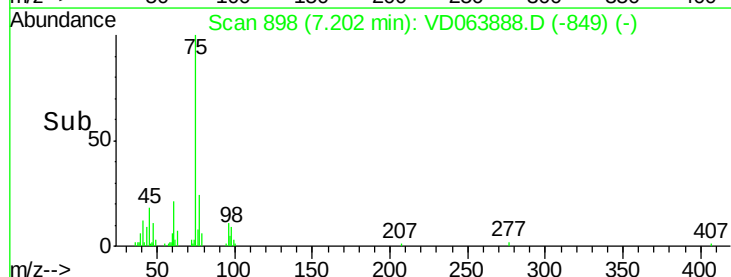
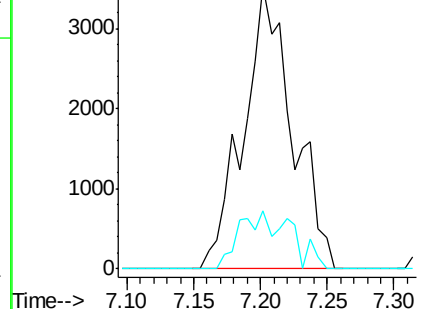
77 100

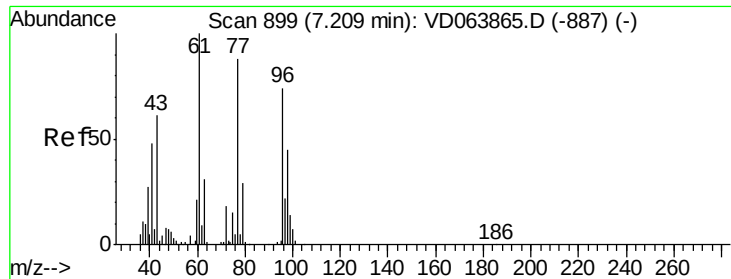
97 8.3 11.4 34.1#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



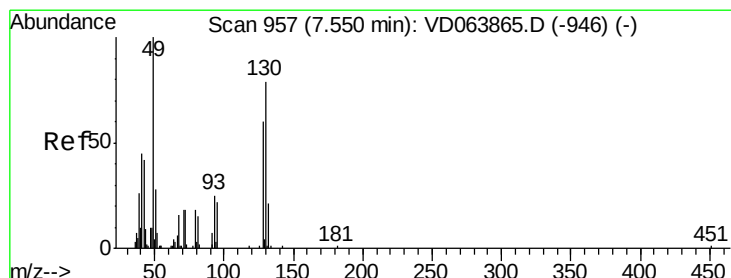
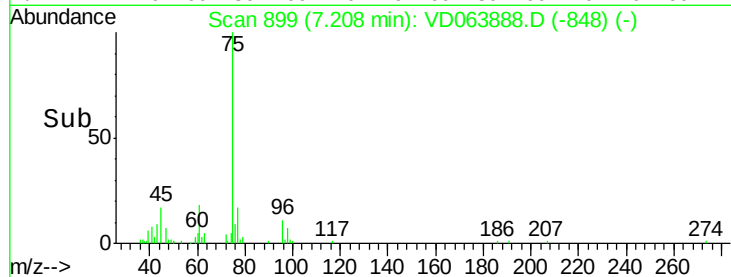
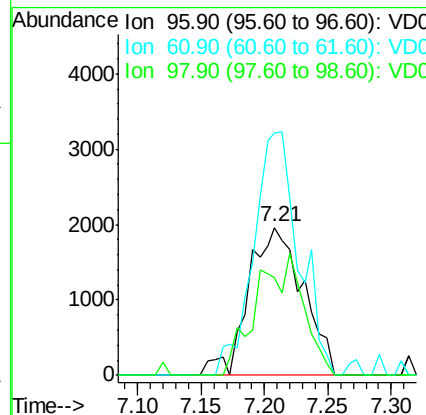
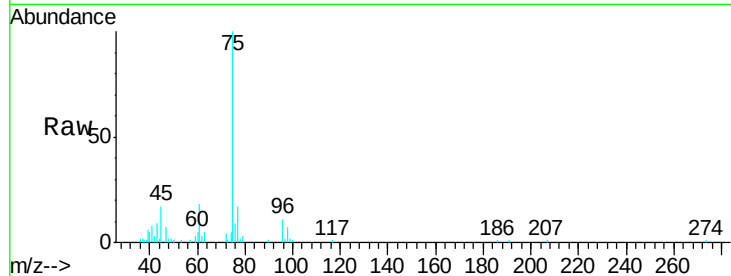


#27

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

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

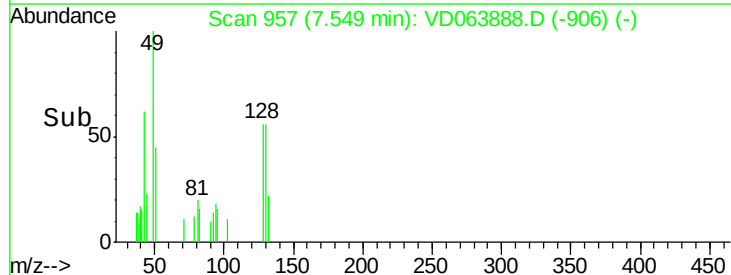
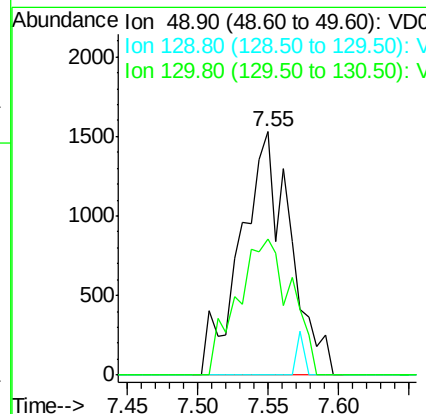
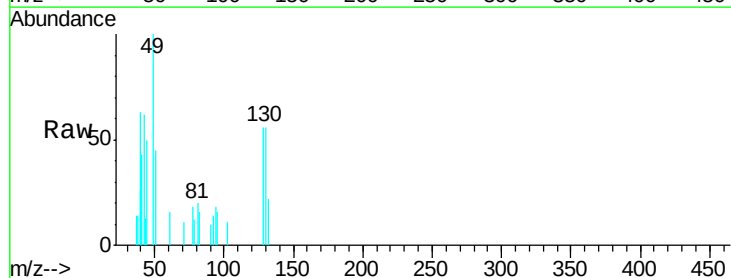
Tgt Ion: 96 Resp: 5891
 Ion Ratio Lower Upper
 96 100
 61 137.9 0.0 280.0
 98 42.4 0.0 130.4

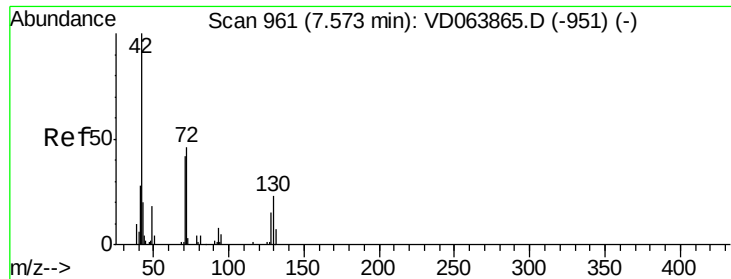


#28

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

Tgt Ion: 49 Resp: 3744
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 5.6
 130 61.0 66.8 100.2#

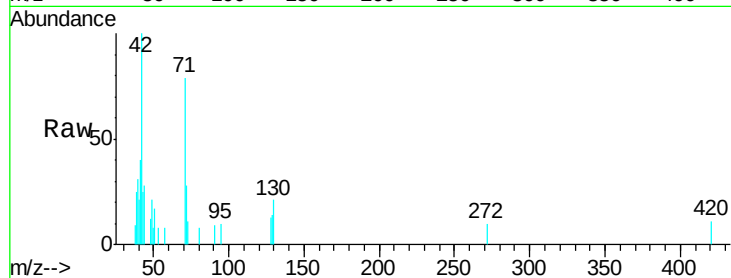




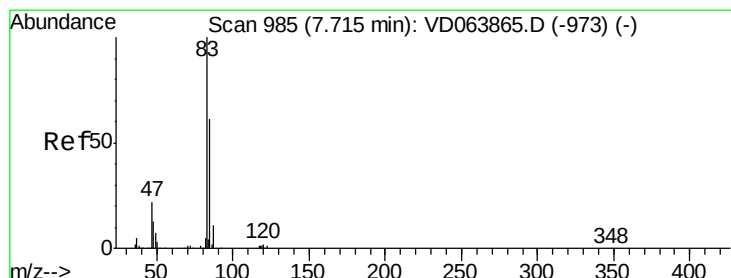
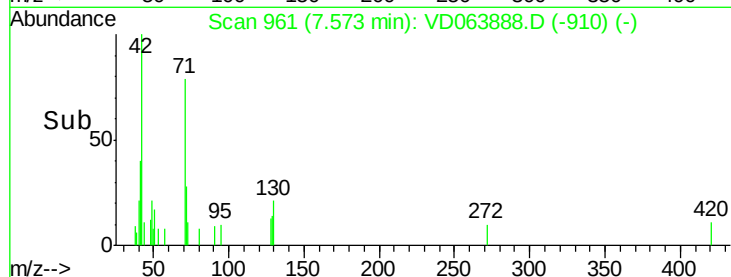
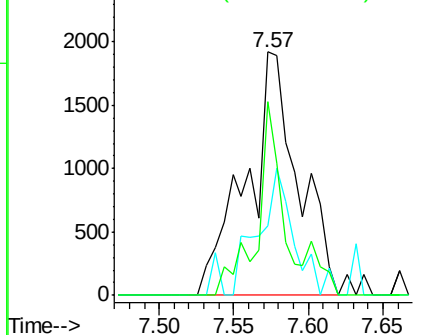
#29
Tetrahydrofuran
Concen: 14.962 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

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

Tgt Ion: 42 Resp: 4610
Ion Ratio Lower Upper
42 100
72 36.8 37.6 56.4#
71 37.5 35.0 52.6

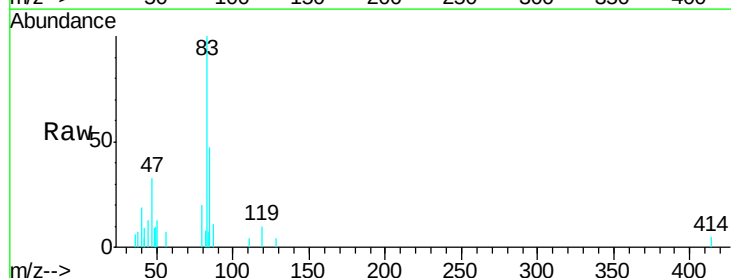


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

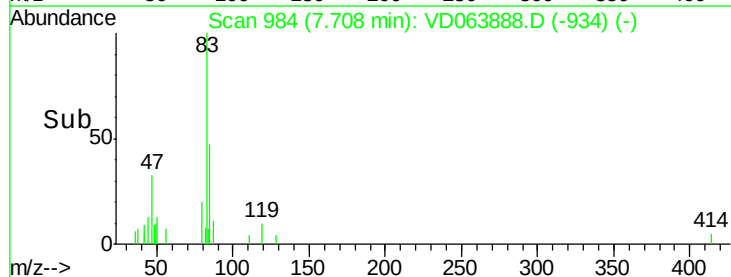
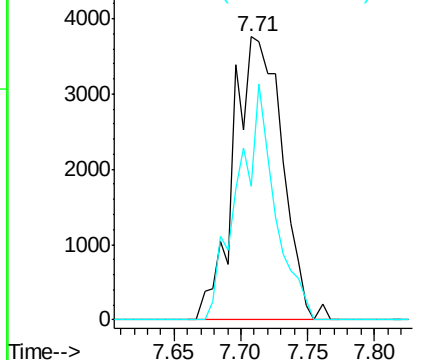


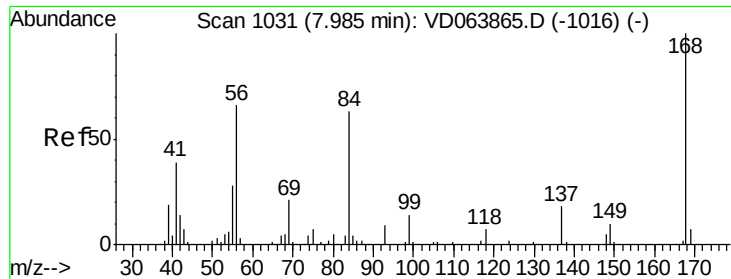
#30
Chloroform
Concen: 2.851 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 83 Resp: 9538
Ion Ratio Lower Upper
83 100
85 44.1 48.9 73.3#



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC

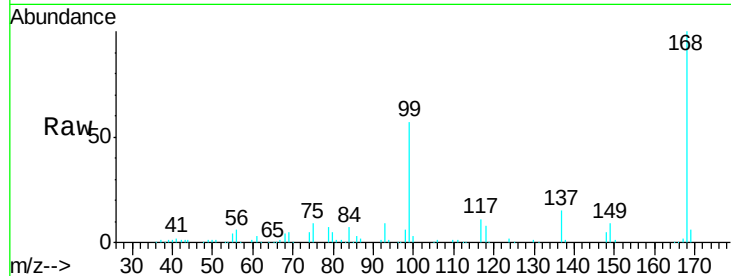




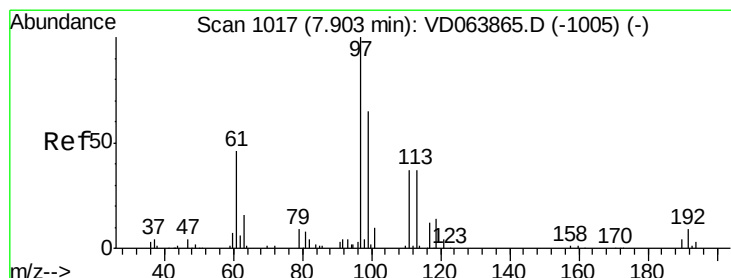
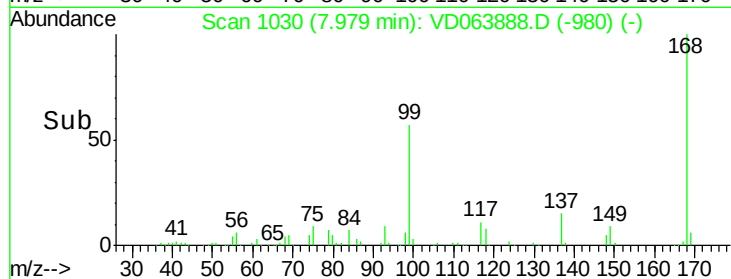
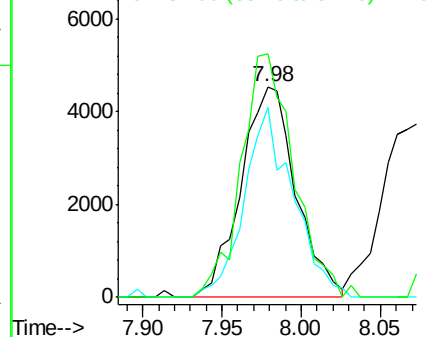
#31
Cyclohexane
Concen: 3.795 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

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

Tgt Ion: 56 Resp: 10960
Ion Ratio Lower Upper
56 100
69 90.3 25.0 37.4#
84 115.5 76.3 114.5#

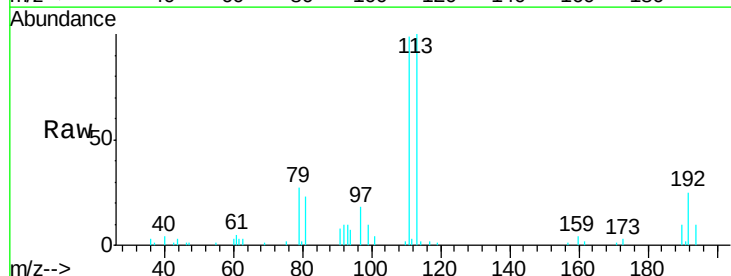


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

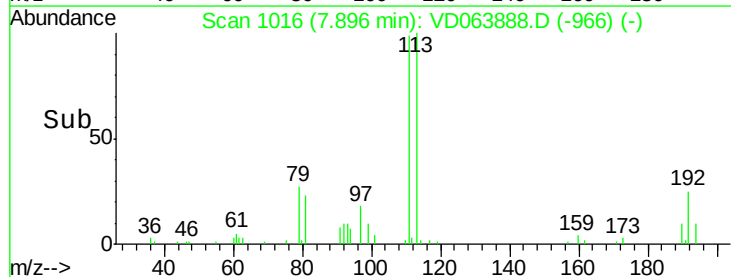
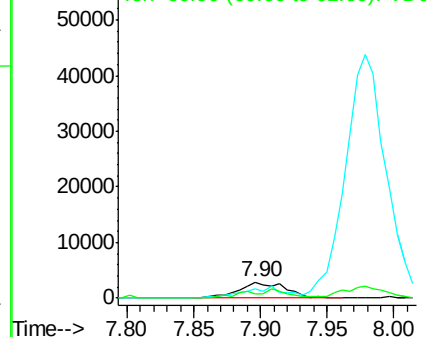


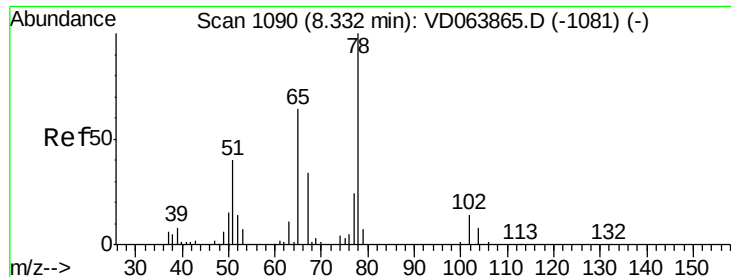
#32
1,1,1-Trichloroethane
Concen: 2.415 ug/l
RT: 7.90 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 97 Resp: 6930
Ion Ratio Lower Upper
97 100
99 0.0 52.4 78.6#
61 22.1 33.8 50.8#



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC

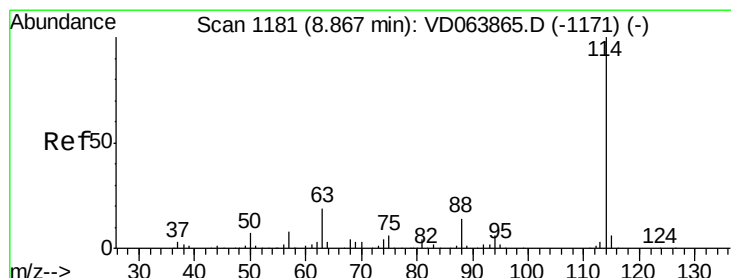
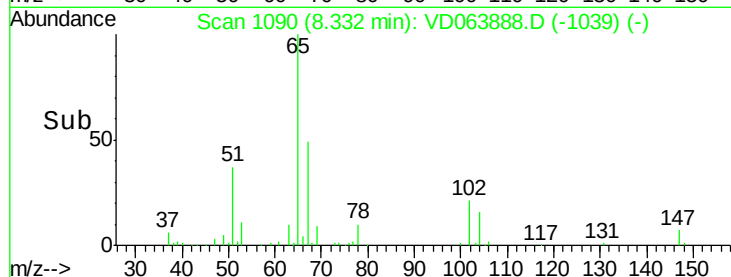
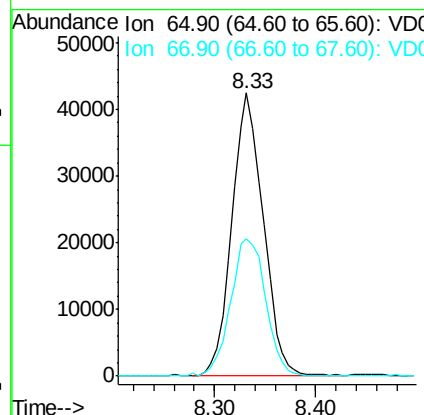
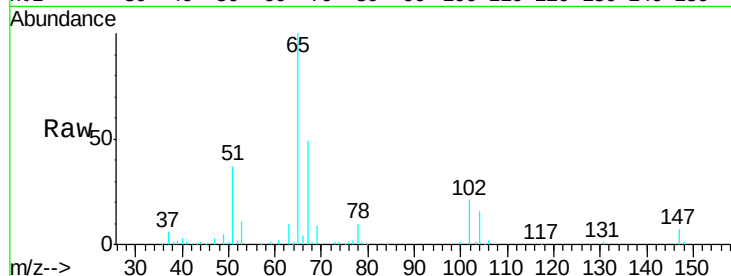




#33
 1,2-Dichloroethane-d4
 Concen: 53.476 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

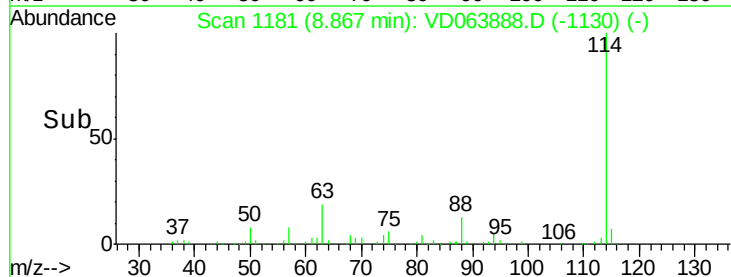
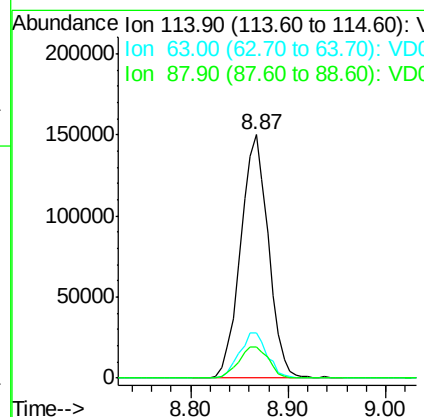
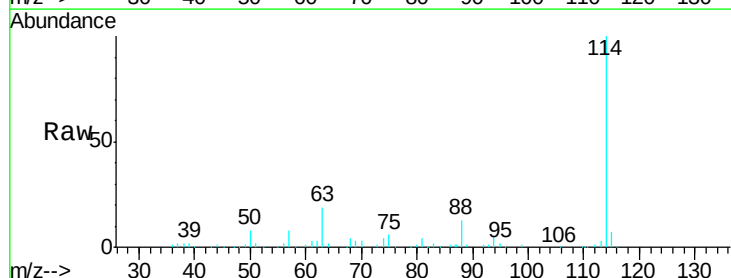
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

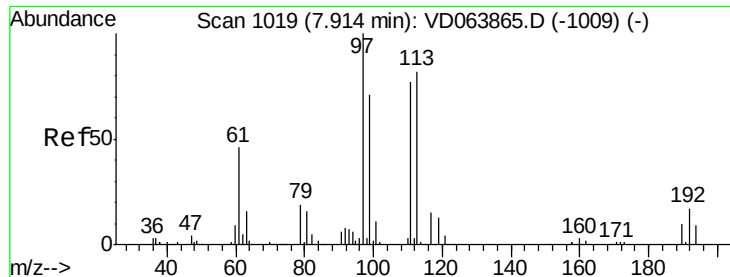
Tgt Ion: 65 Resp: 91491
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 106.4



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

Tgt Ion: 114 Resp: 297240
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.4
 88 12.7 0.0 27.4

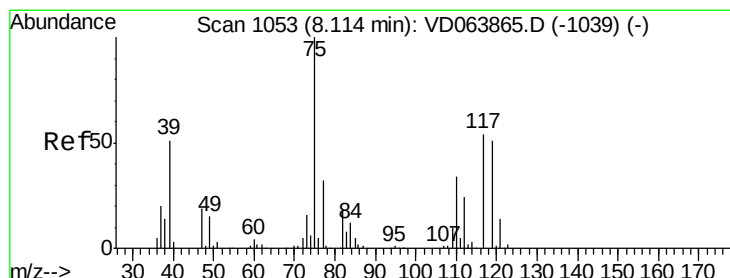
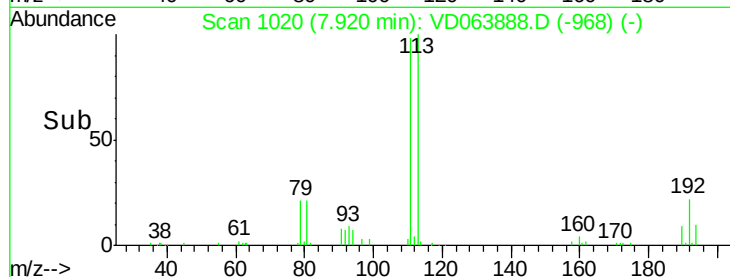
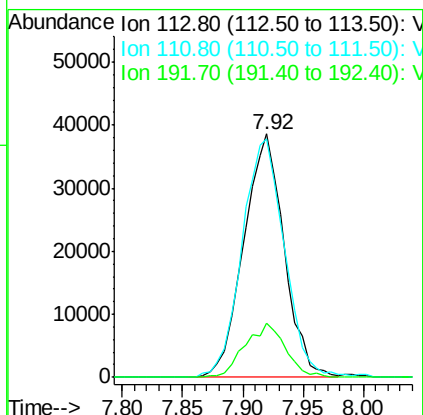
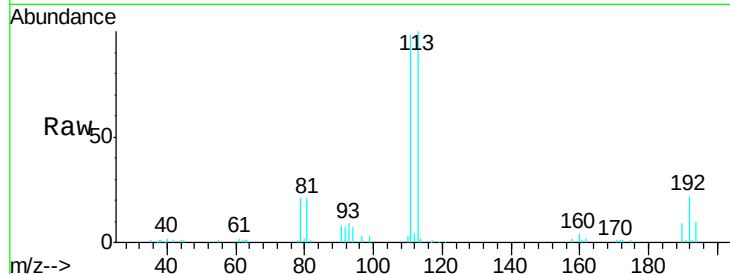




#35
 Dibromofluoromethane
 Concen: 49.517 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

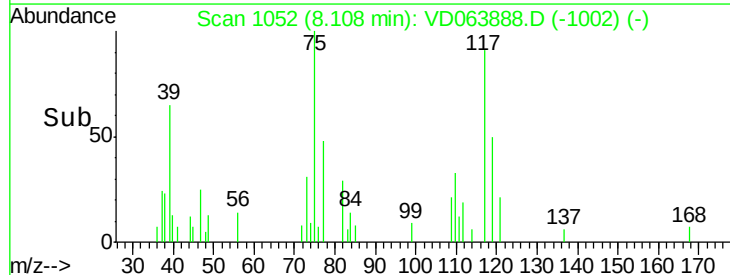
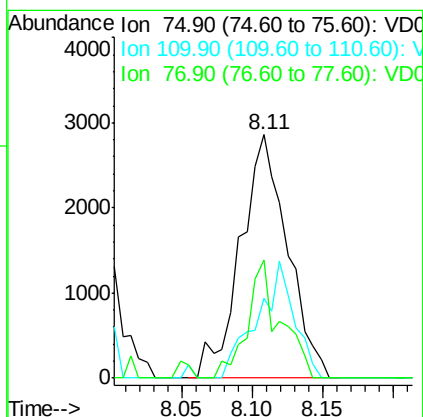
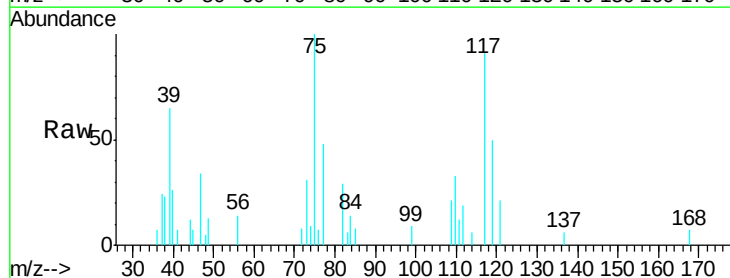
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

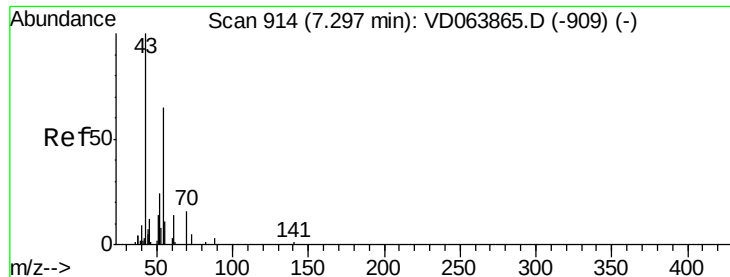
Tgt Ion: 113 Resp: 89948
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.6 123.8
 192 22.3 17.1 25.7



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

Tgt Ion: 75 Resp: 6645
 Ion Ratio Lower Upper
 75 100
 110 38.1 17.4 52.3
 77 33.7 25.4 38.0

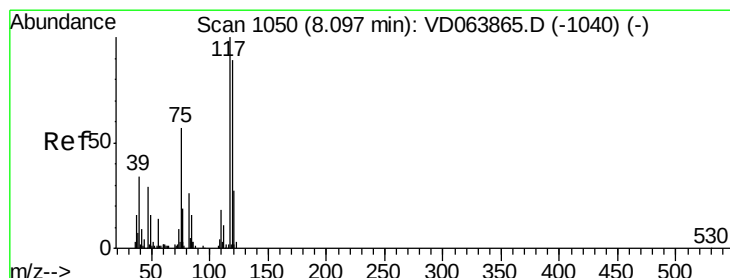
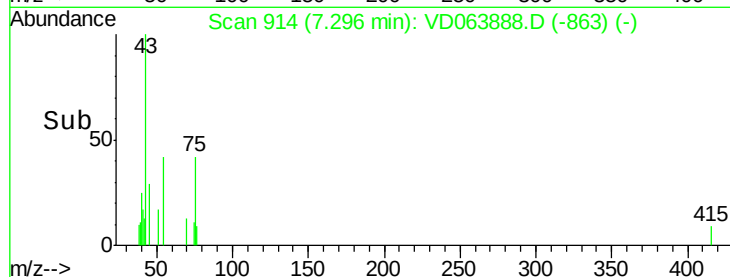
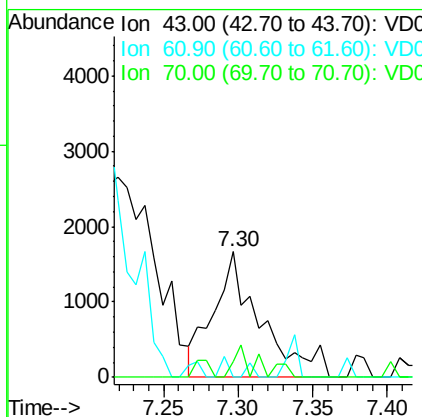
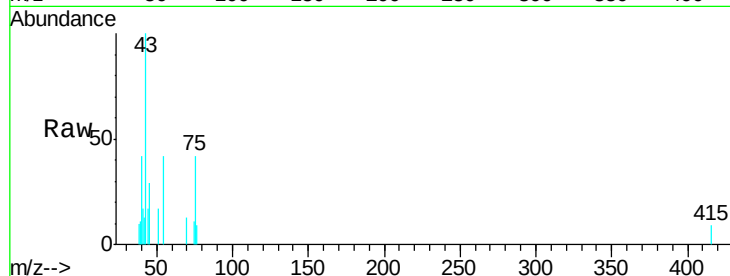




#37
Ethyl Acetate
Concen: 2.977 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

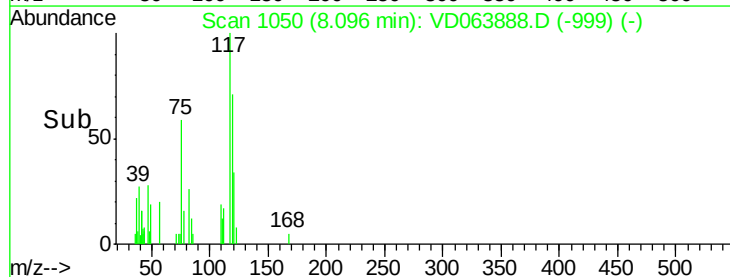
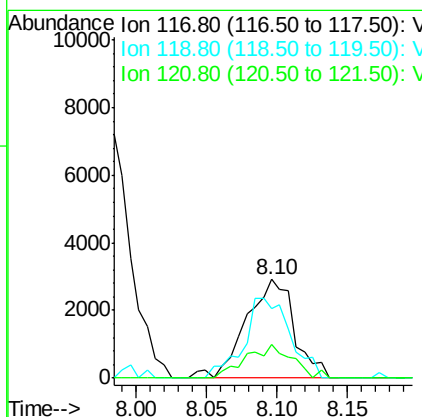
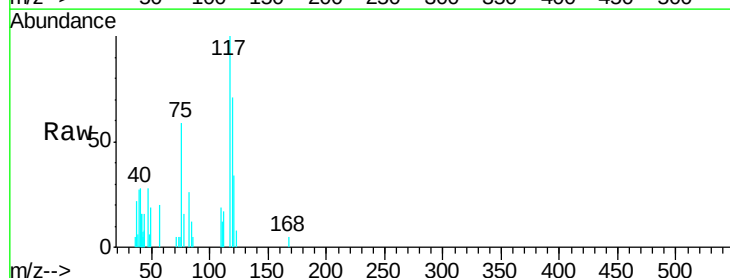
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

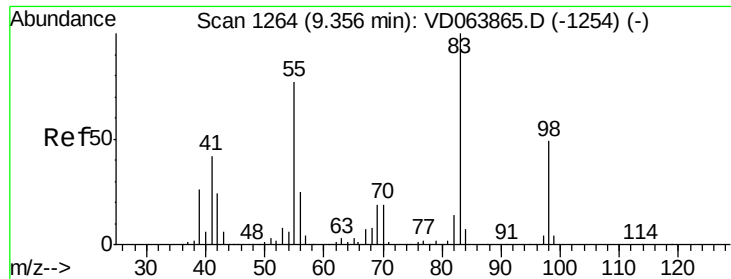
Tgt Ion: 43 Resp: 3672
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 9.0 8.2 12.4



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

Tgt Ion: 117 Resp: 6971
Ion Ratio Lower Upper
117 100
119 70.6 70.8 106.2#
121 33.9 21.4 32.0#

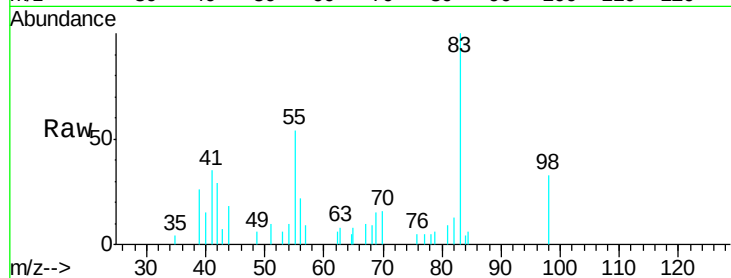




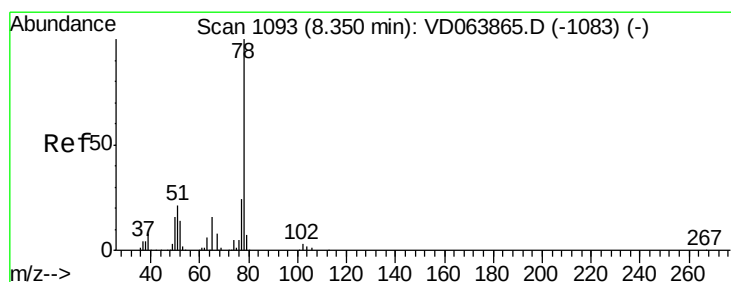
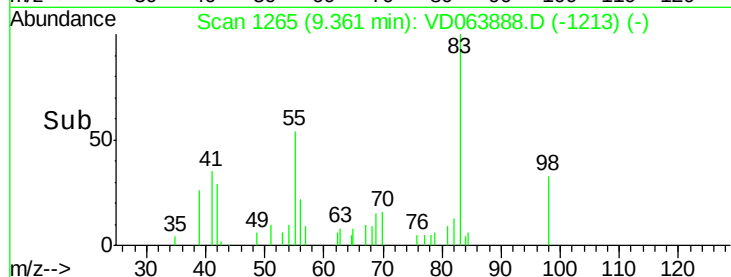
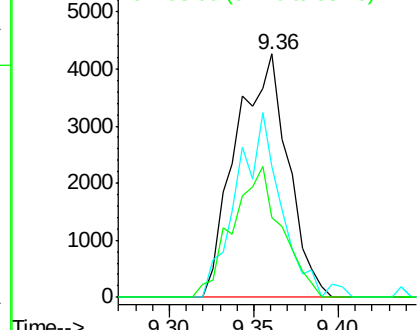
#39
Methylcyclohexane
Concen: 2.742 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

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

Tgt Ion: 83 Resp: 9162
Ion Ratio Lower Upper
83 100
55 54.0 61.3 91.9#
98 32.8 39.3 58.9#

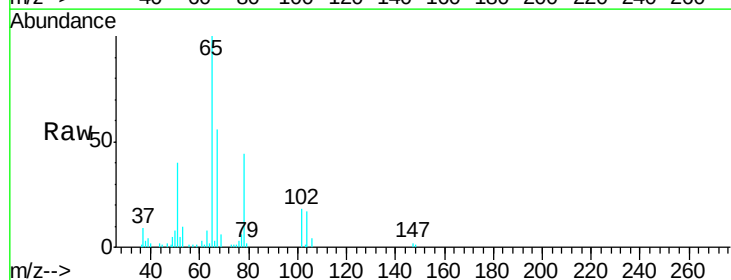


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

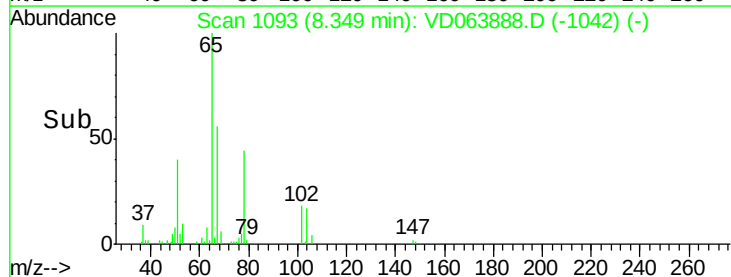
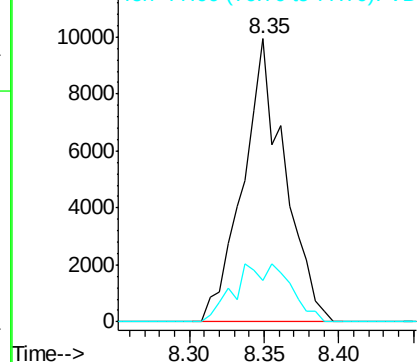


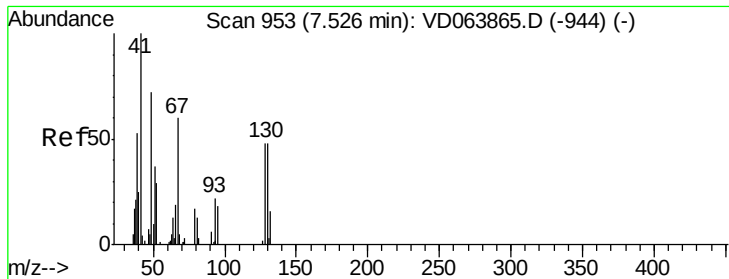
#40
Benzene
Concen: 2.471 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion: 78 Resp: 19248
Ion Ratio Lower Upper
78 100
77 14.6 19.0 28.6#



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC





#41

Methacrylonitrile

Concen: 1.679 ug/l

RT: 7.51 min Scan# 950

Delta R.T. -0.02 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 41 Resp: 1058

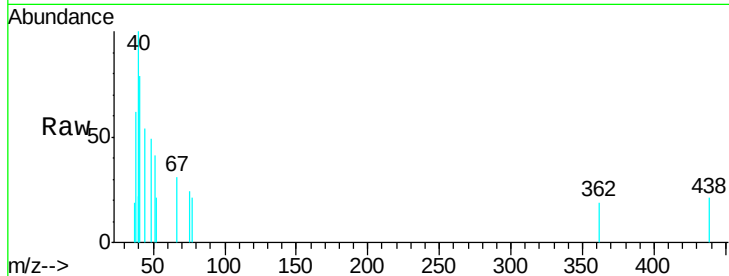
Ion Ratio Lower Upper

41 100

39 40.0 52.6 78.8#

67 0.0 74.2 111.2#

52 0.0 34.0 51.0#

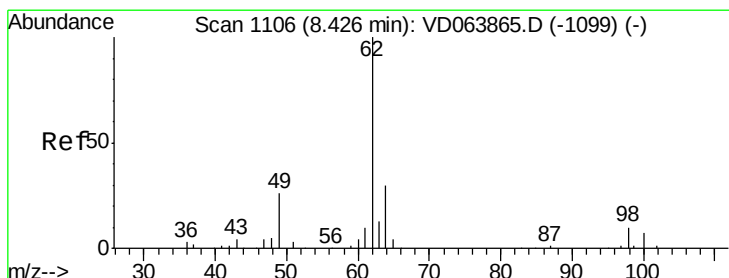
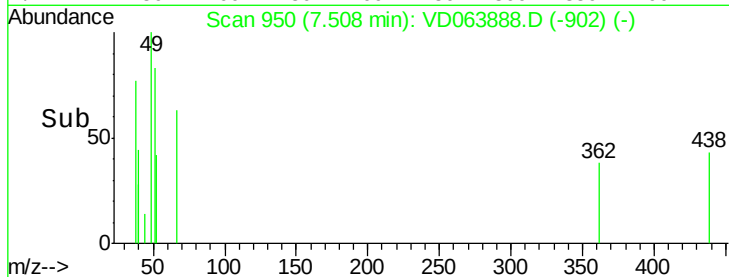
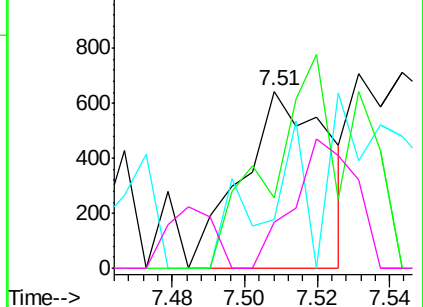


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 2.381 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD063888.D

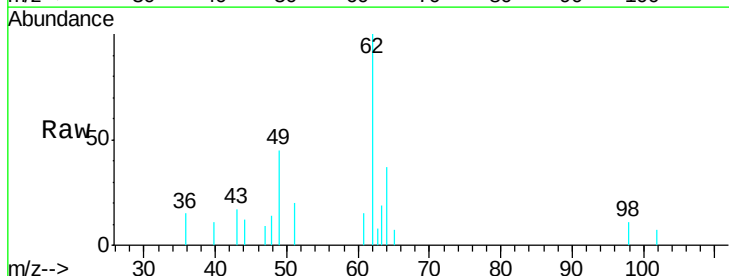
Acq: 04 Oct 2019 16:44

Tgt Ion: 62 Resp: 5364

Ion Ratio Lower Upper

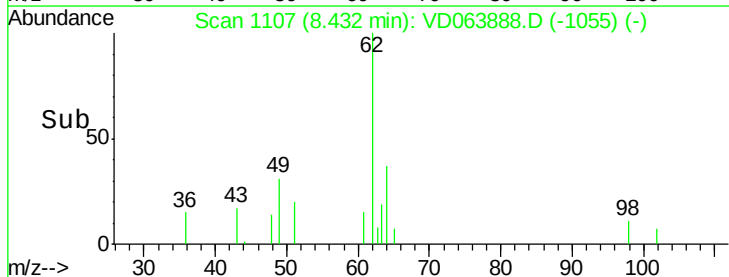
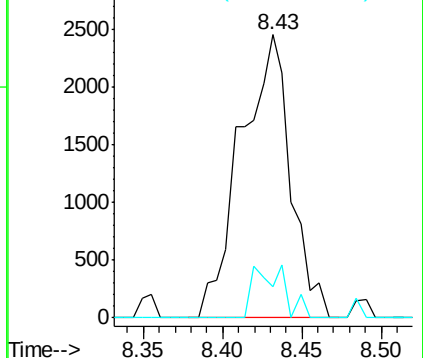
62 100

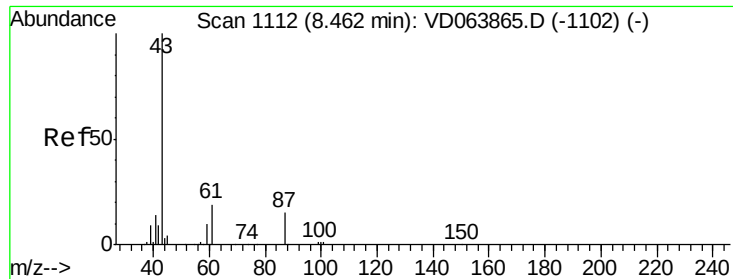
98 11.3 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 2.525 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

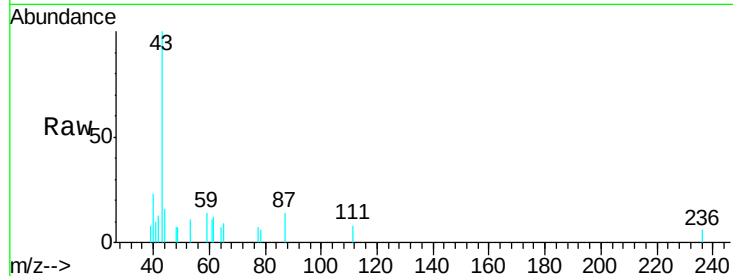
Tgt Ion: 43 Resp: 5756

Ion Ratio Lower Upper

43 100

61 9.7 25.7 38.5#

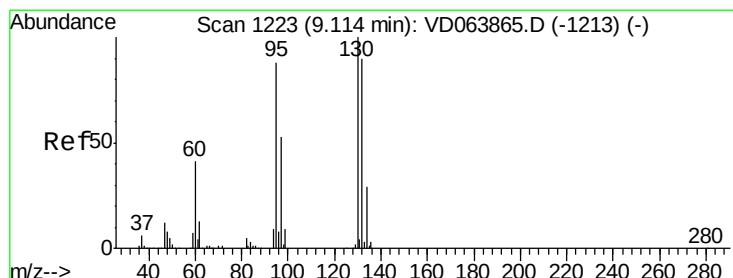
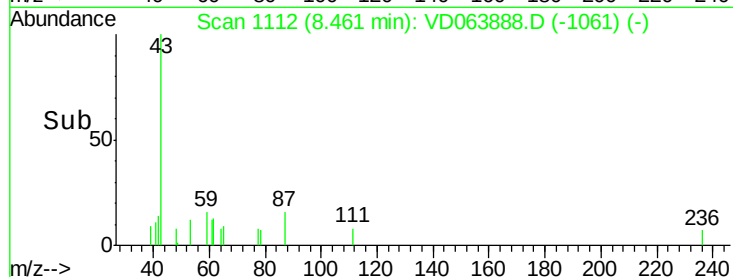
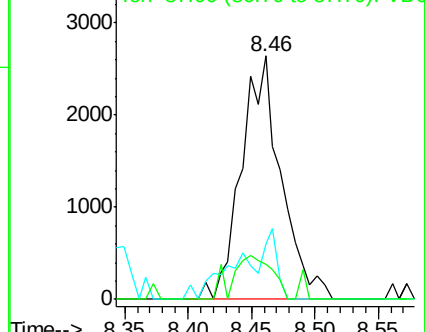
87 0.0 11.6 17.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 2.489 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD063888.D

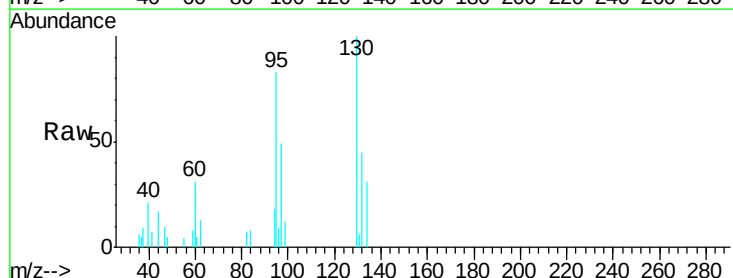
Acq: 04 Oct 2019 16:44

Tgt Ion: 130 Resp: 5590

Ion Ratio Lower Upper

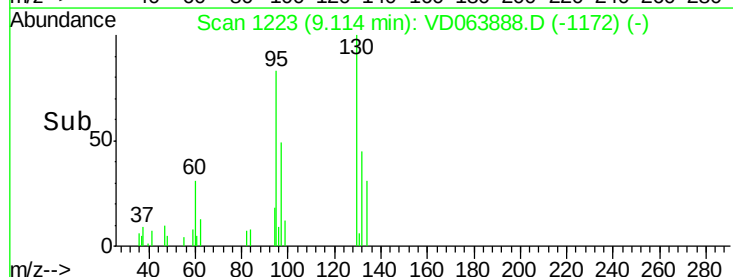
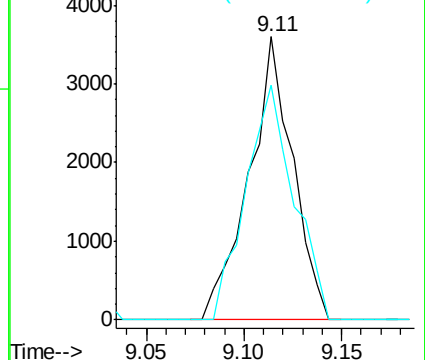
130 100

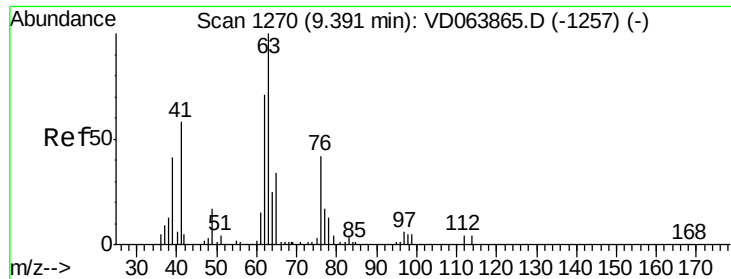
95 82.8 0.0 175.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

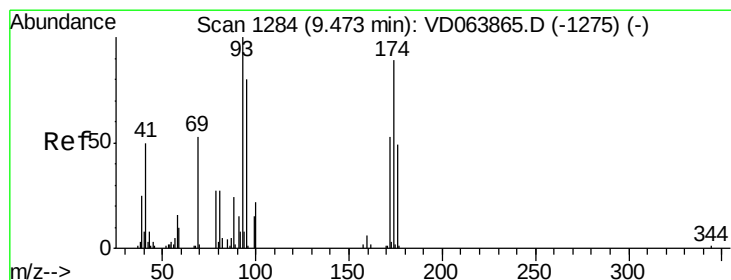
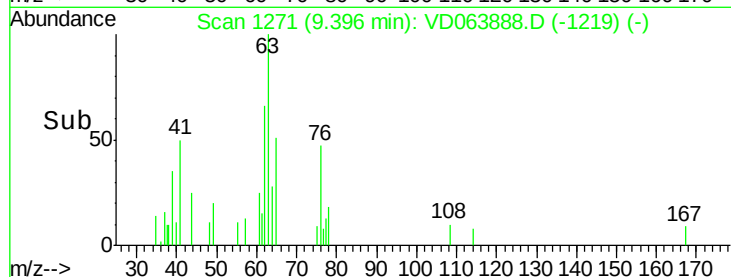
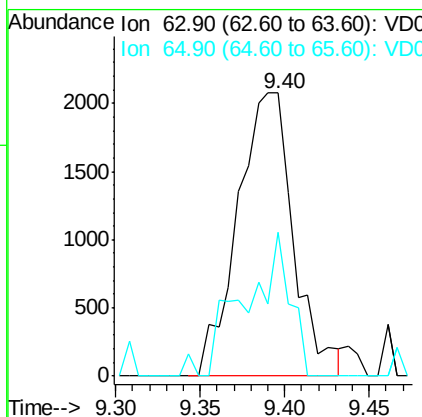
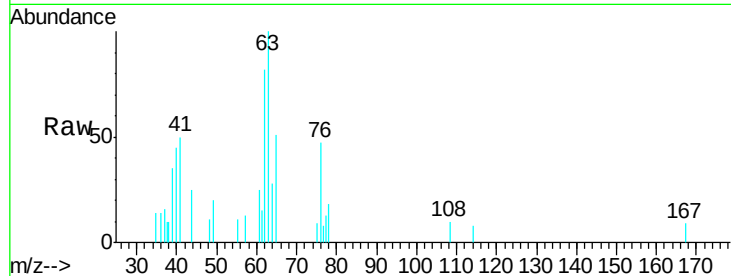




#45
 1,2-Dichloropropane
 Concen: 2.504 ug/l
 RT: 9.40 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

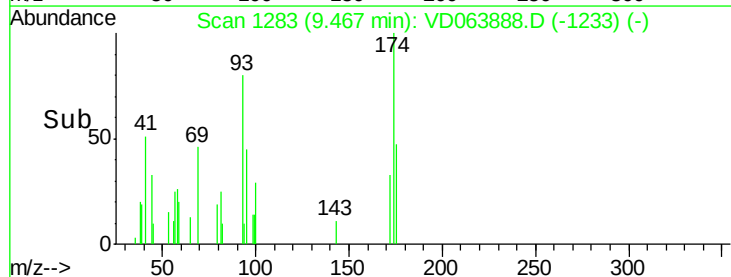
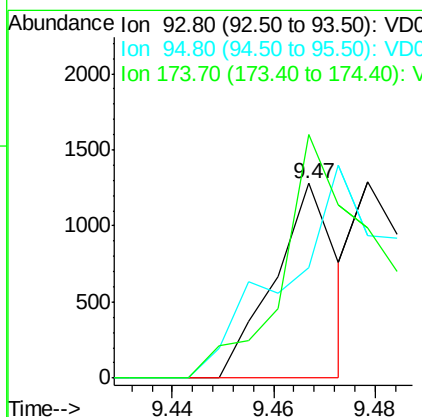
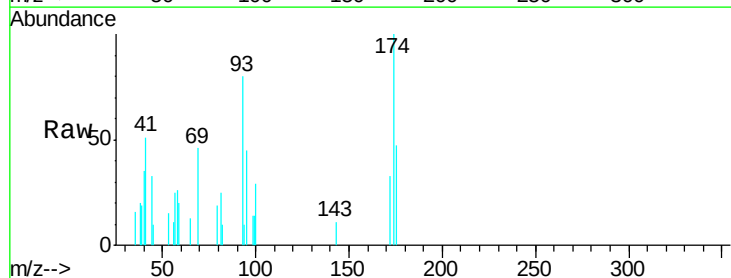
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

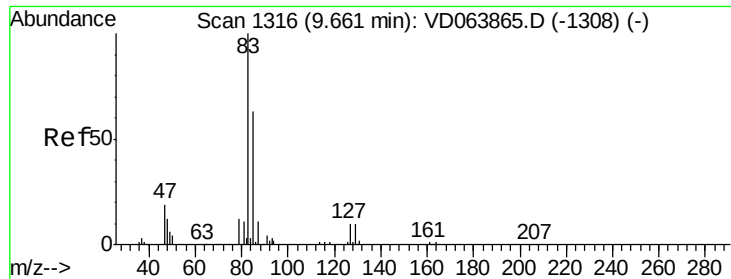
Tgt Ion: 63 Resp: 4774
 Ion Ratio Lower Upper
 63 100
 65 50.7 27.3 40.9#



#46
 Dibromomethane
 Concen: 1.001 ug/l
 RT: 9.47 min Scan# 1283
 Delta R.T. -0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion: 93 Resp: 1087
 Ion Ratio Lower Upper
 93 100
 95 230.0 66.0 99.0#
 174 237.4 83.4 125.0#





#47

Bromodichloromethane

Concen: 2.368 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

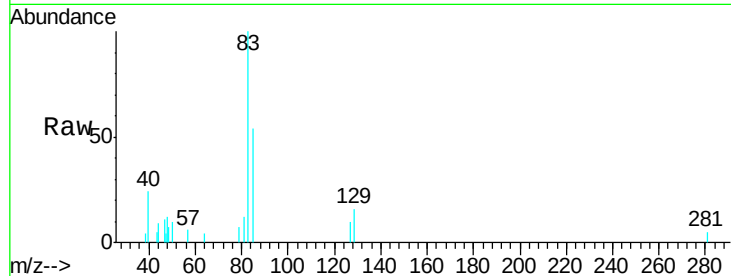
Tgt Ion: 83 Resp: 6620

Ion Ratio Lower Upper

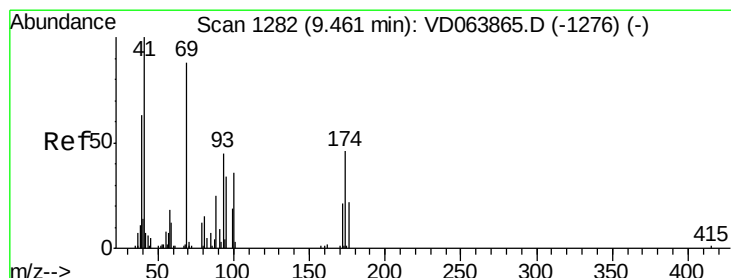
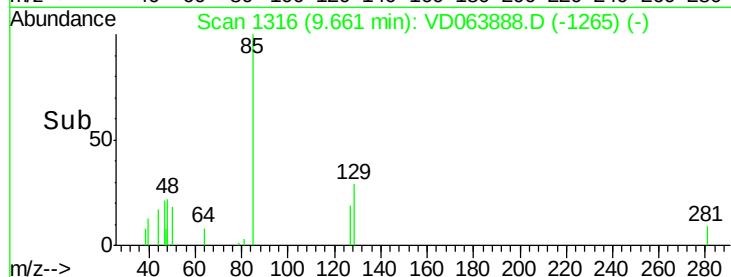
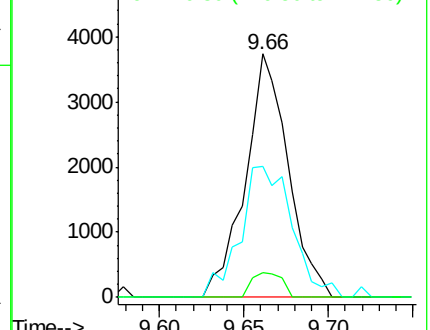
83 100

85 53.8 50.2 75.2

127 10.0 7.6 11.4



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 2.318 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

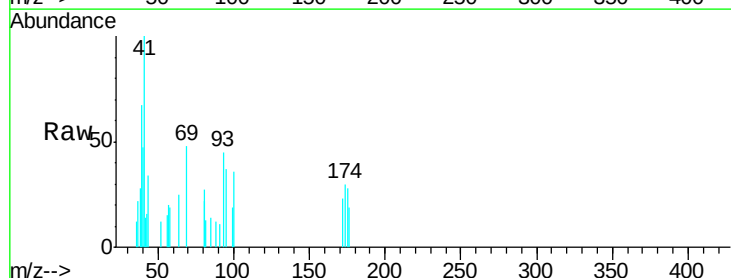
Tgt Ion: 41 Resp: 2531

Ion Ratio Lower Upper

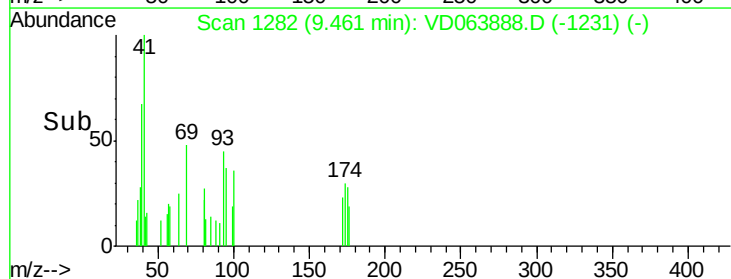
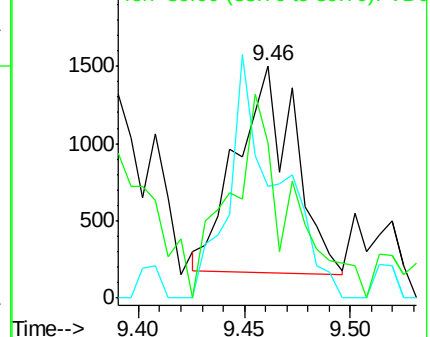
41 100

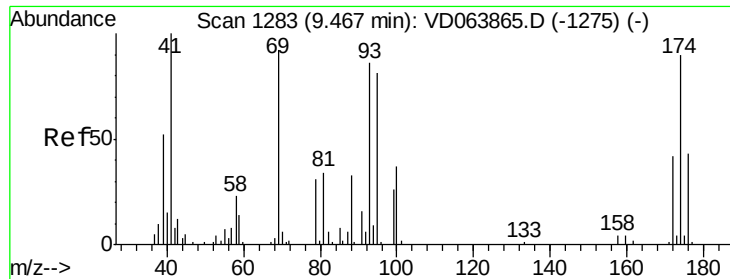
69 97.3 75.1 112.7

39 101.1 50.2 75.2#



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

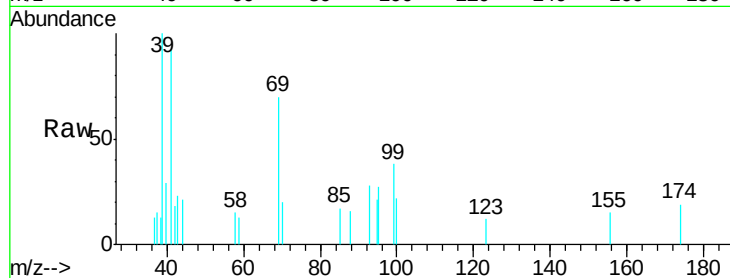




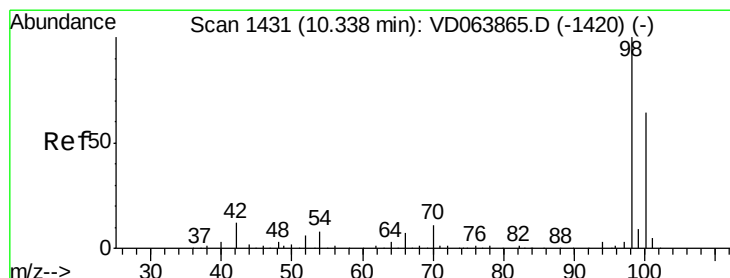
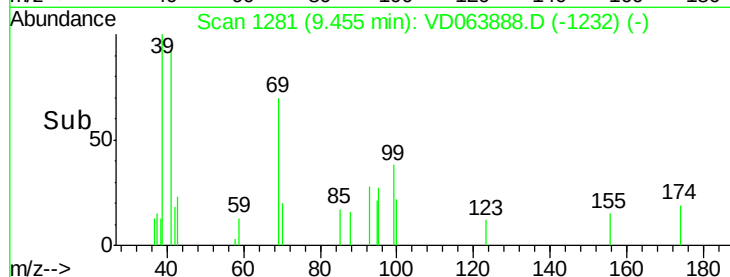
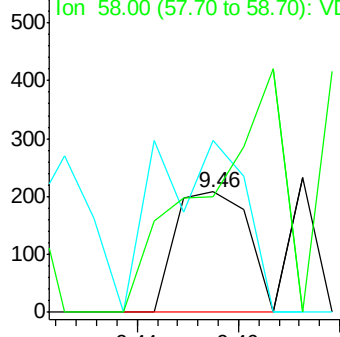
#49
1,4-Dioxane
Concen: 13.901 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

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

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

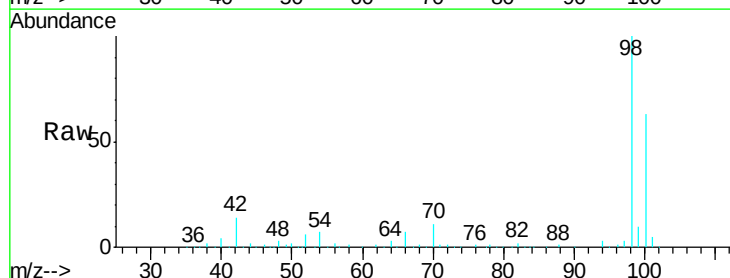


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

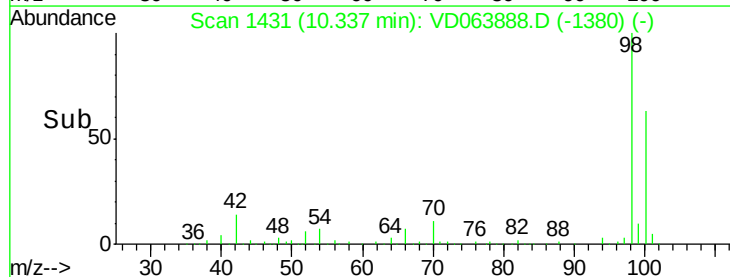
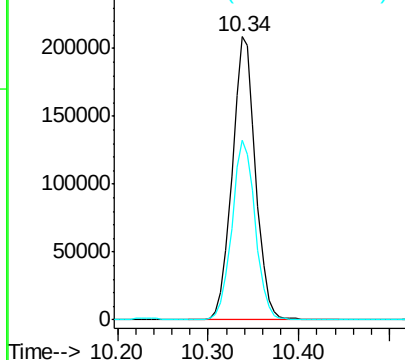


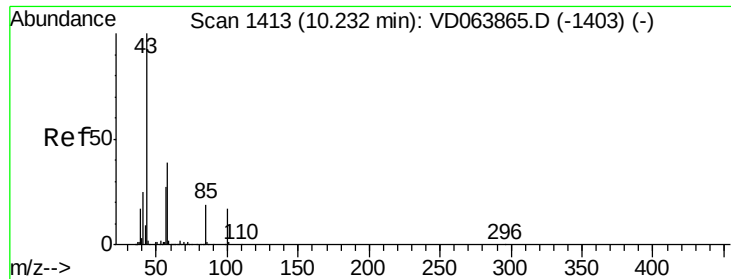
#50
Toluene-d8
Concen: 50.697 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

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



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

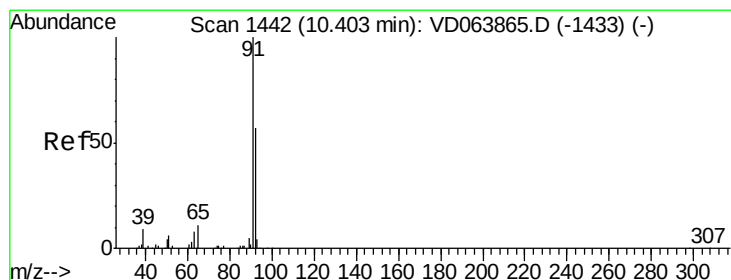
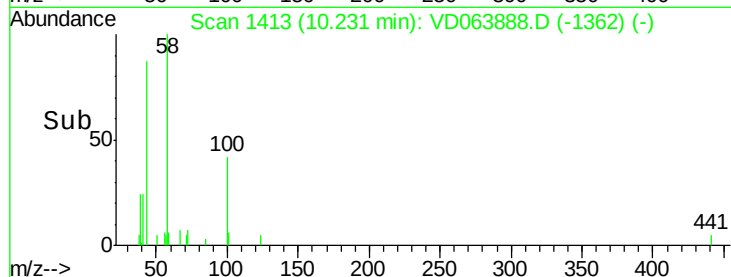
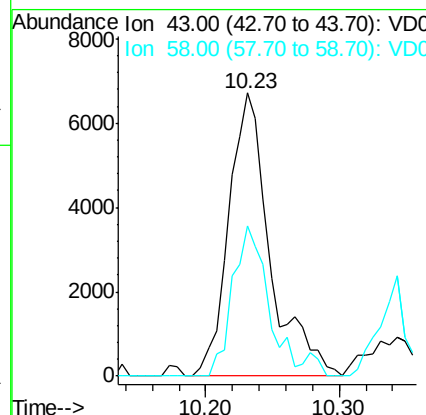
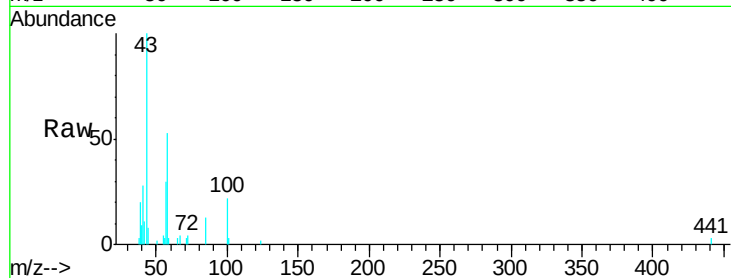




#51
 4-Methyl-2-Pentanone
 Concen: 12.264 ug/l
 RT: 10.23 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

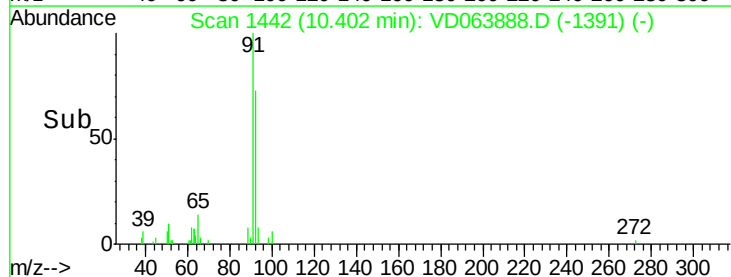
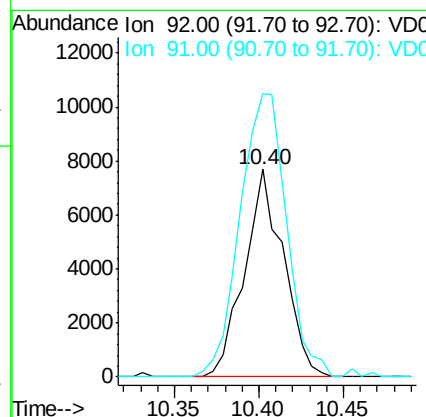
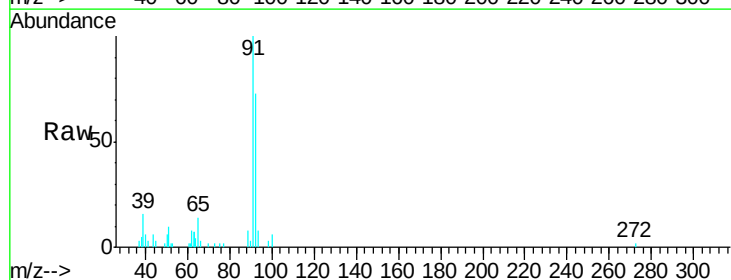
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

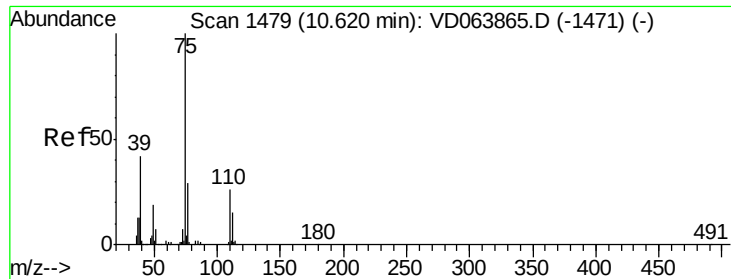
Tgt Ion: 43 Resp: 14497
 Ion Ratio Lower Upper
 43 100
 58 45.4 33.0 49.4



#52
 Toluene
 Concen: 2.311 ug/l
 RT: 10.40 min Scan# 1442
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion: 92 Resp: 12356
 Ion Ratio Lower Upper
 92 100
 91 162.7 139.5 209.3

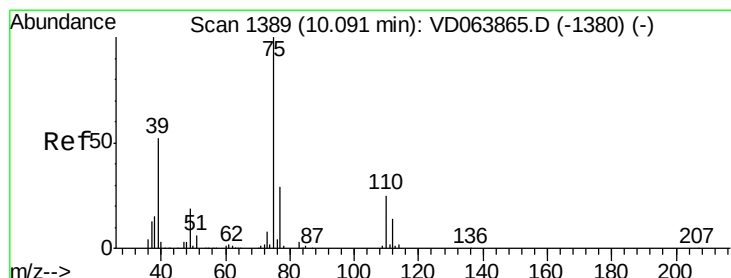
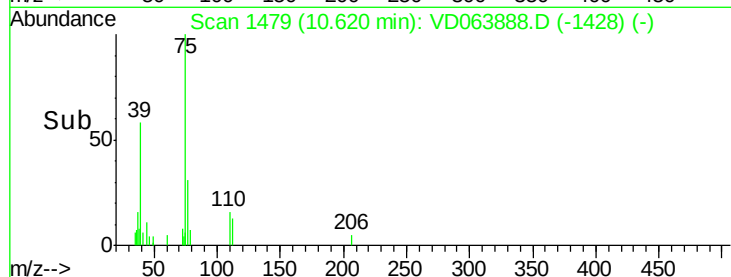
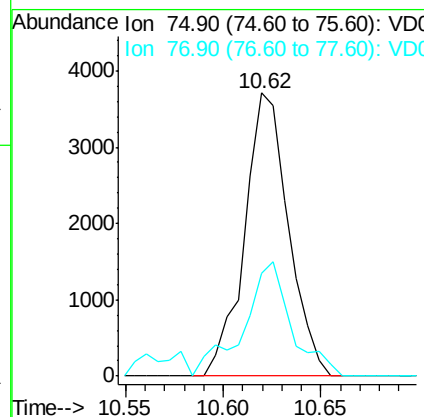
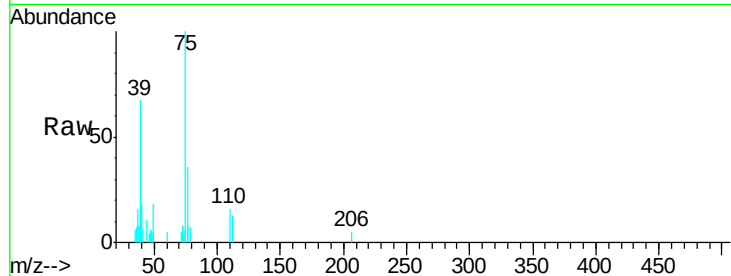




#53
t-1,3-Dichloropropene
Concen: 2.121 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

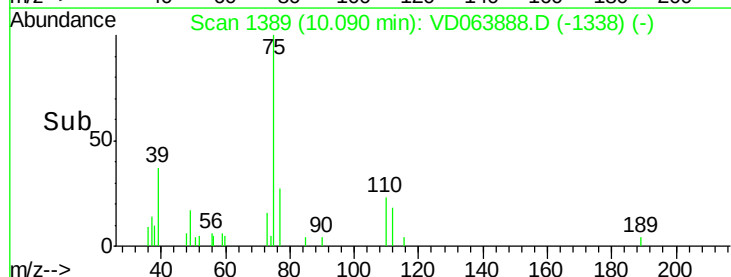
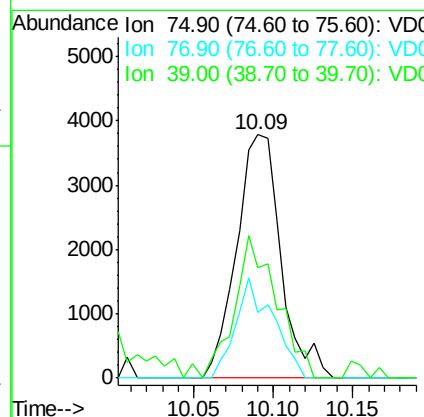
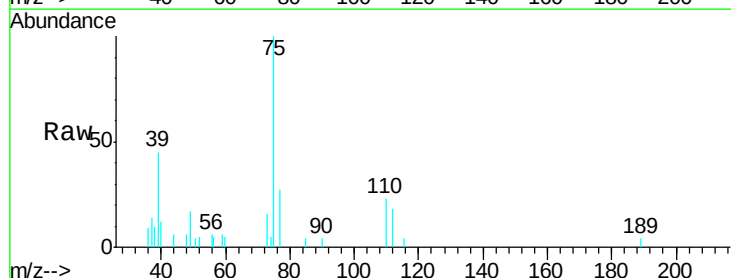
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

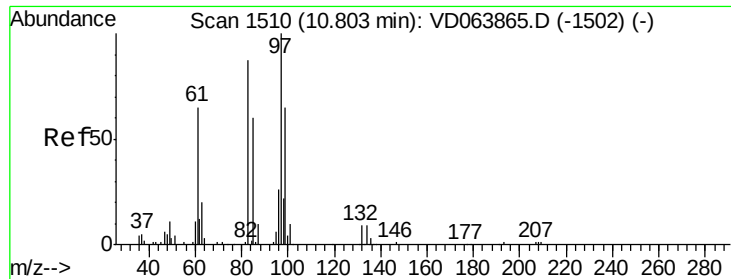
Tgt Ion: 75 Resp: 5786
Ion Ratio Lower Upper
75 100
77 36.2 22.8 34.2#



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

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

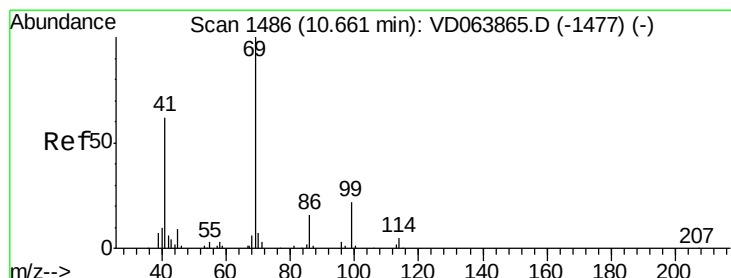
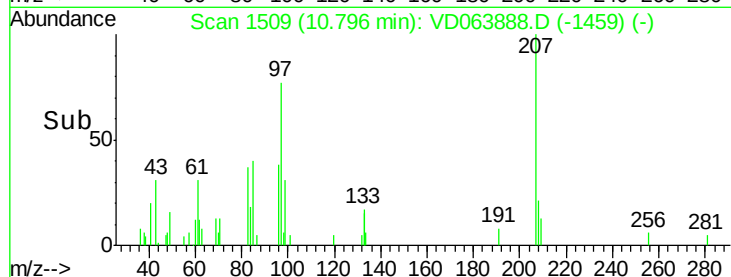
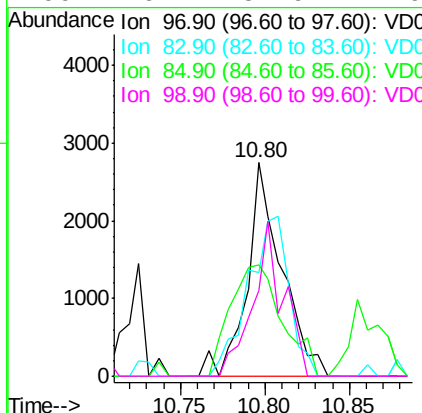
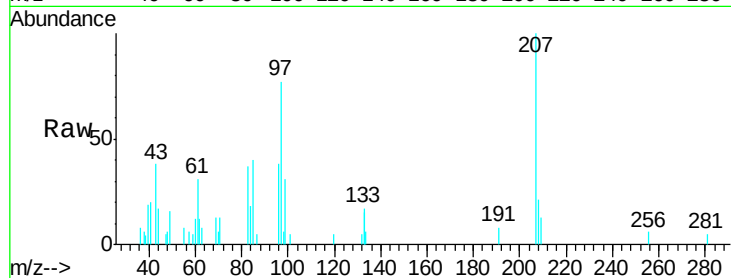




#55
 1,1,2-Trichloroethane
 Concen: 2.568 ug/l
 RT: 10.80 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

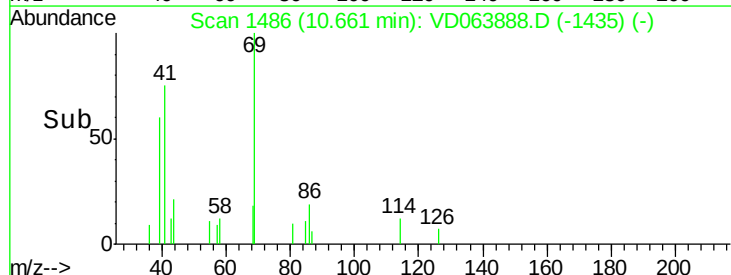
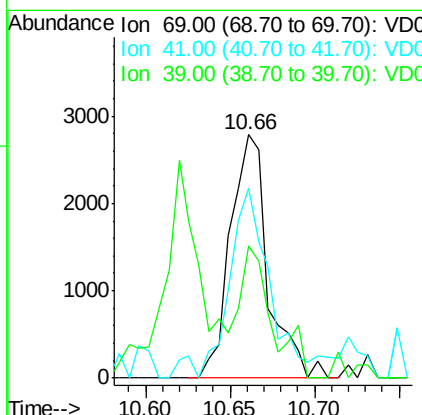
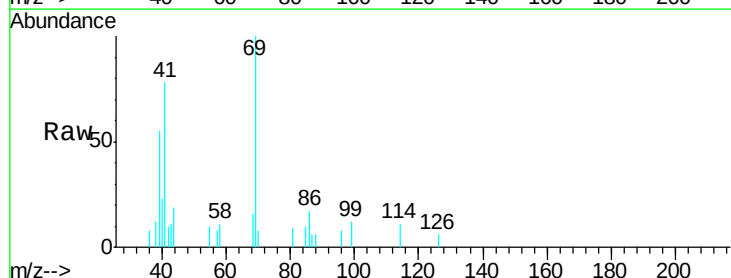
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

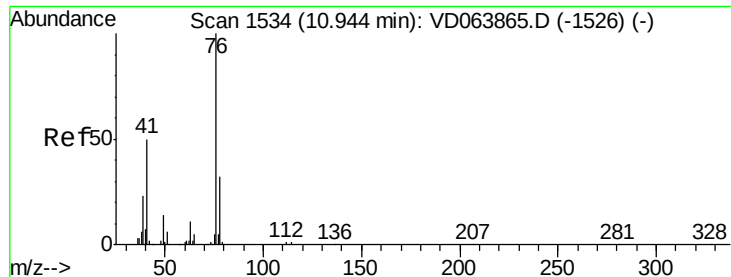
Tgt Ion: 97 Resp: 3936
 Ion Ratio Lower Upper
 97 100
 83 48.4 69.7 104.5#
 85 52.2 48.1 72.1
 99 40.2 51.9 77.9#



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

Tgt Ion: 69 Resp: 4326
 Ion Ratio Lower Upper
 69 100
 41 80.7 51.3 76.9#
 39 46.6 28.0 42.0#

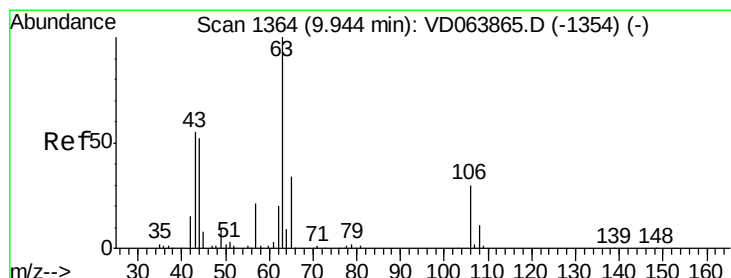
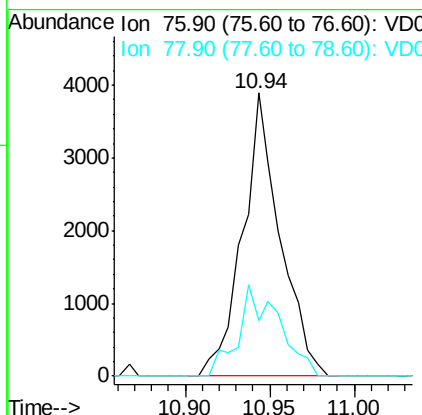
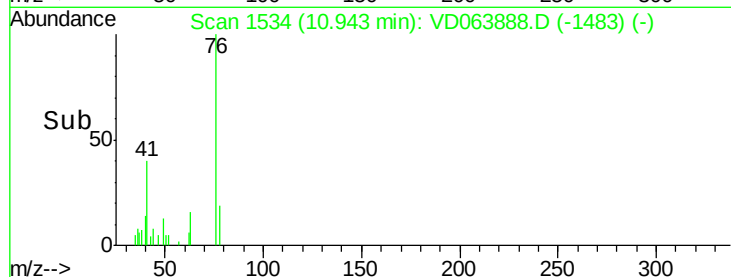
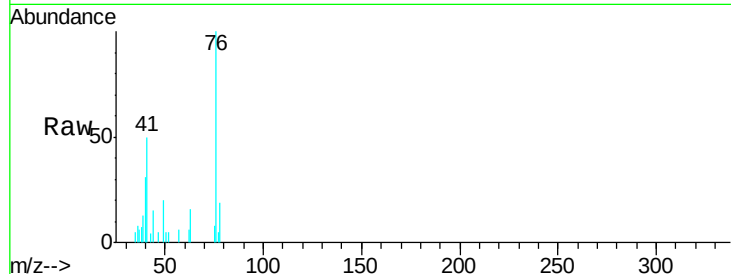




#57
 1,3-Dichloropropane
 Concen: 2.295 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

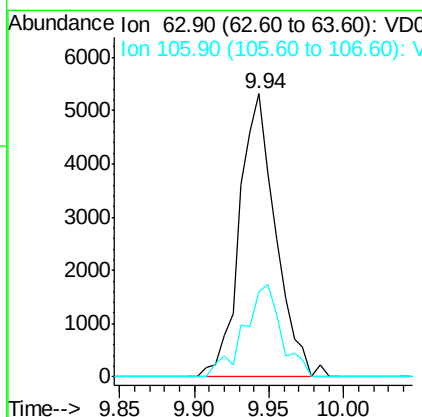
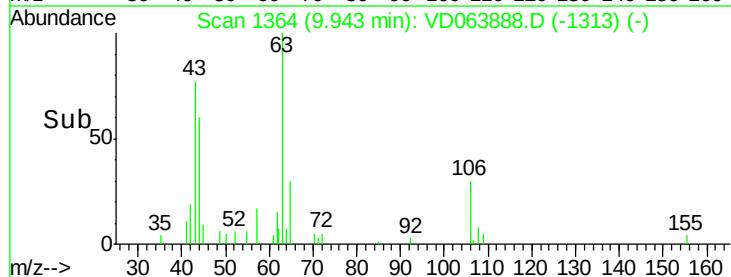
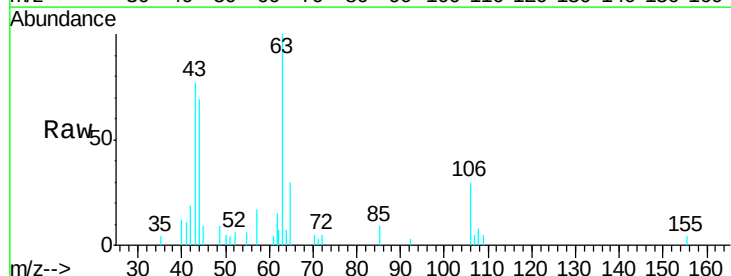
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

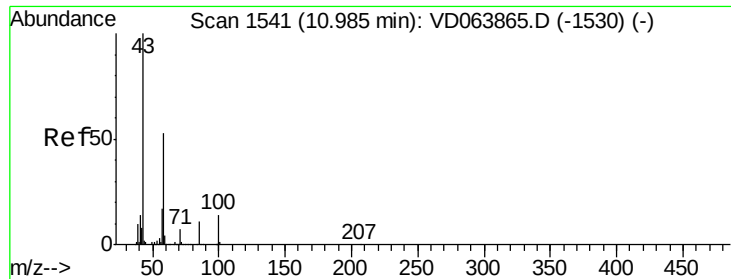
Tgt Ion: 76 Resp: 6019
 Ion Ratio Lower Upper
 76 100
 78 35.1 26.6 40.0



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

Tgt Ion: 63 Resp: 8914
 Ion Ratio Lower Upper
 63 100
 106 33.5 24.3 36.5

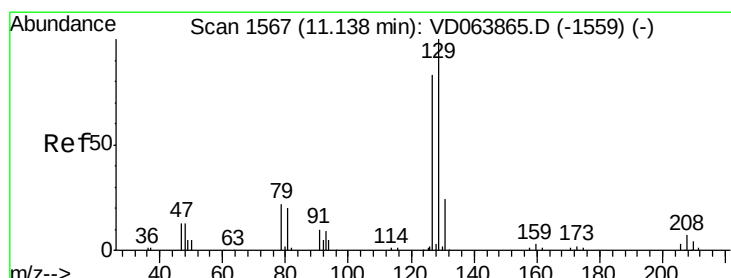
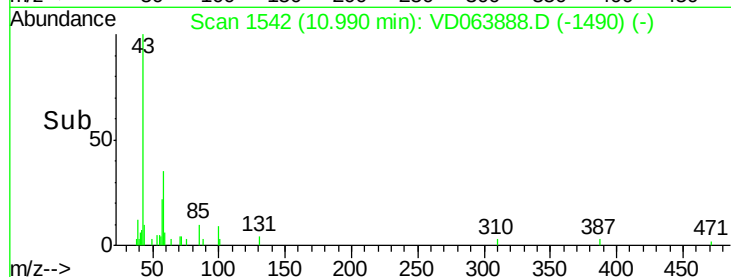
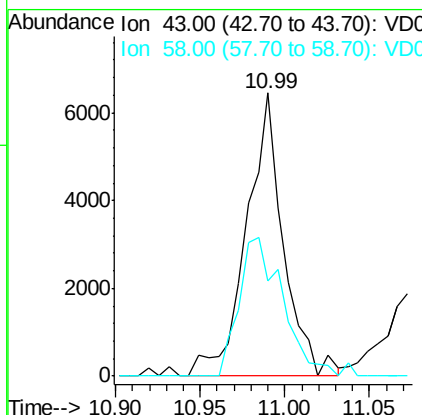
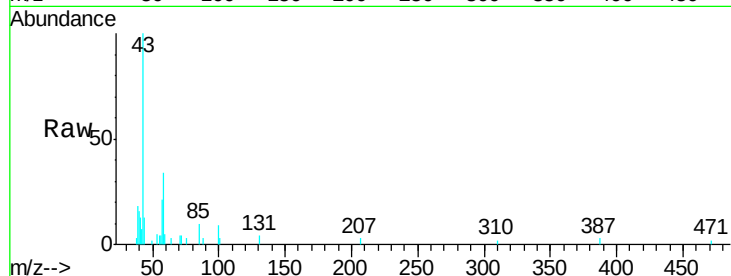




#59
2-Hexanone
Concen: 11.494 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

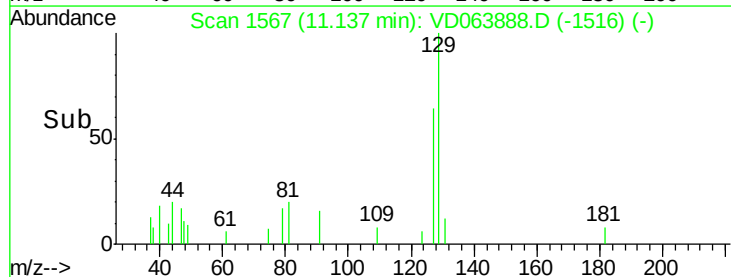
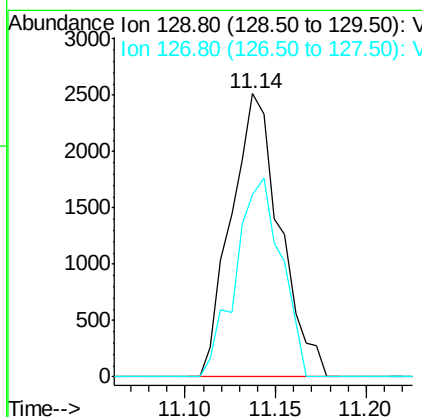
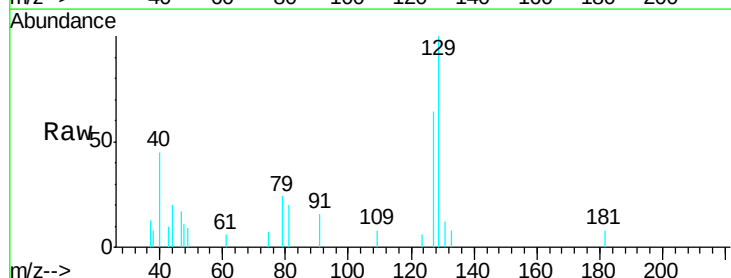
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

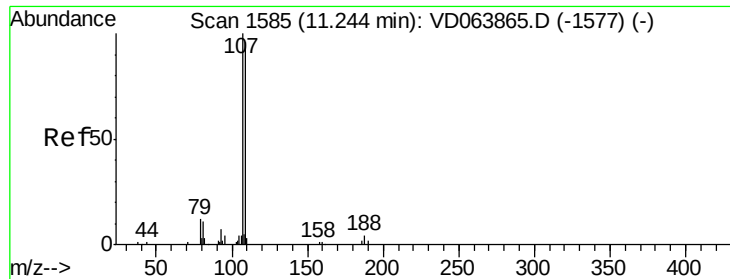
Tgt Ion: 43 Resp: 9828
Ion Ratio Lower Upper
43 100
58 57.5 27.7 83.0



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

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

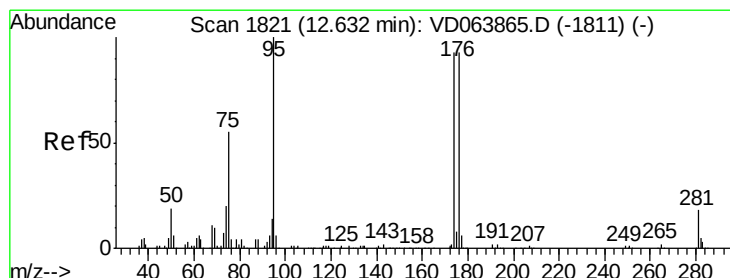
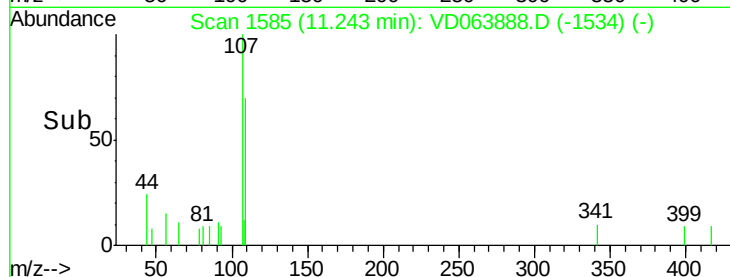
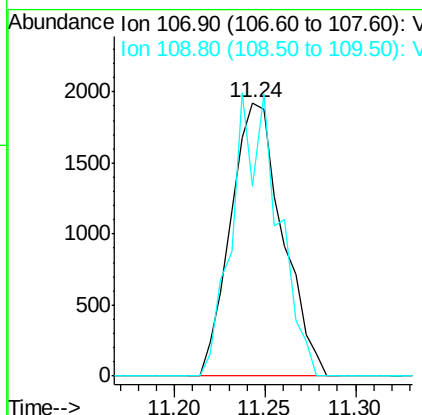
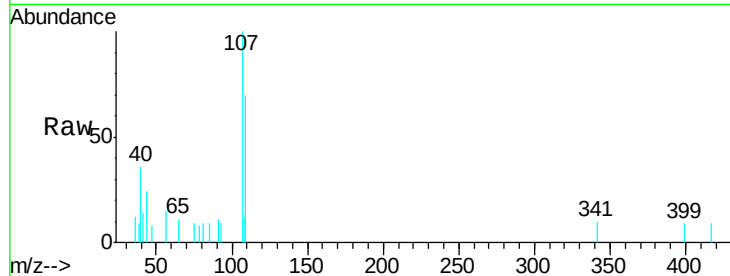




#61
1,2-Dibromoethane
Concen: 2.567 ug/l
RT: 11.24 min Scan# 1585
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

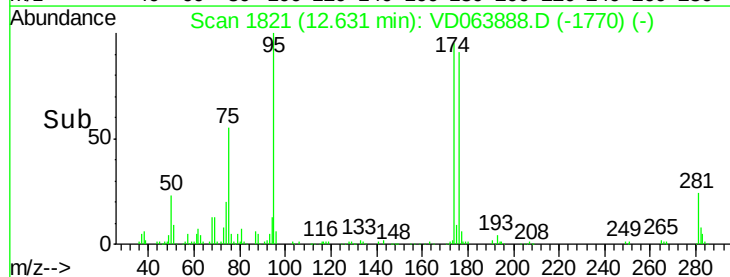
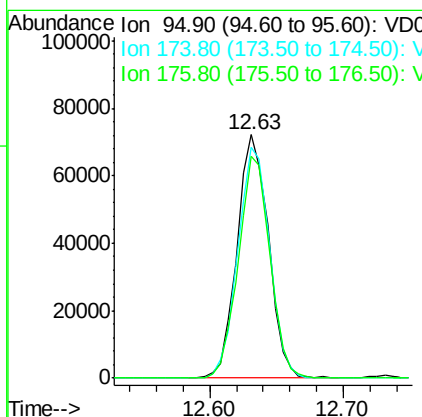
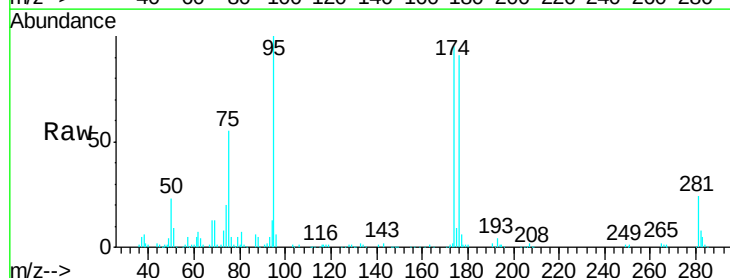
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

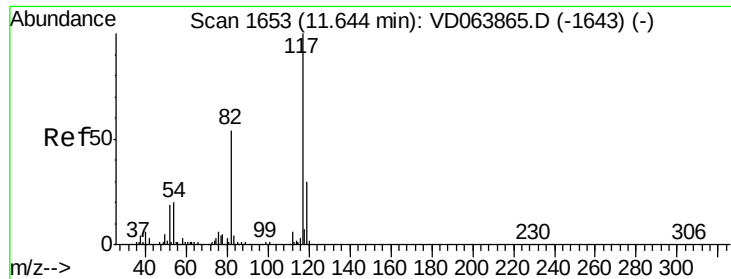
Tgt Ion: 107 Resp: 3815
Ion Ratio Lower Upper
107 100
109 91.0 75.2 112.8



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

Tgt Ion: 95 Resp: 117378
Ion Ratio Lower Upper
95 100
174 96.0 0.0 186.4
176 91.4 0.0 184.2

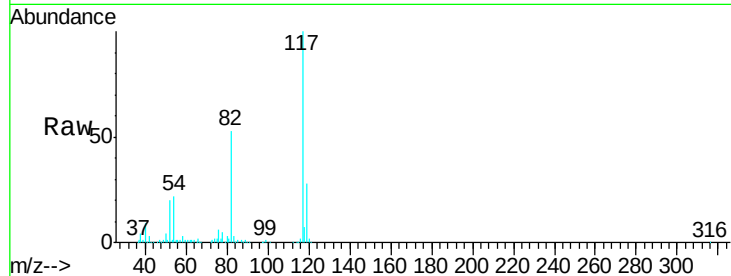




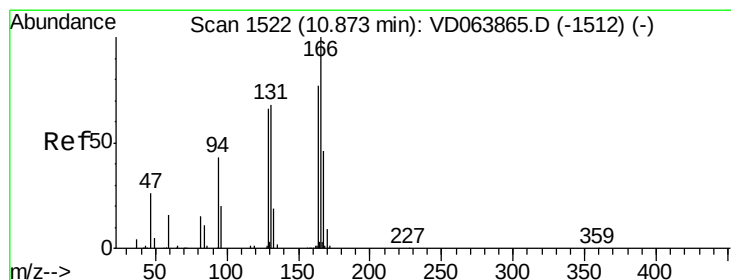
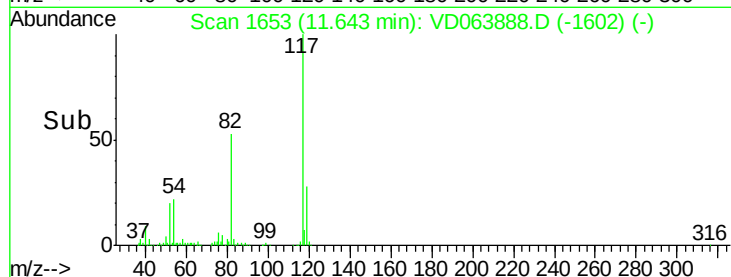
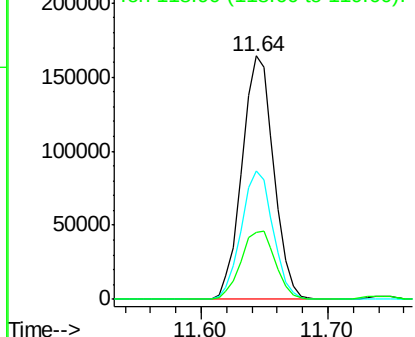
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

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

Tgt Ion:117 Resp: 285503
Ion Ratio Lower Upper
117 100
82 52.9 42.8 64.2
119 27.7 24.4 36.6

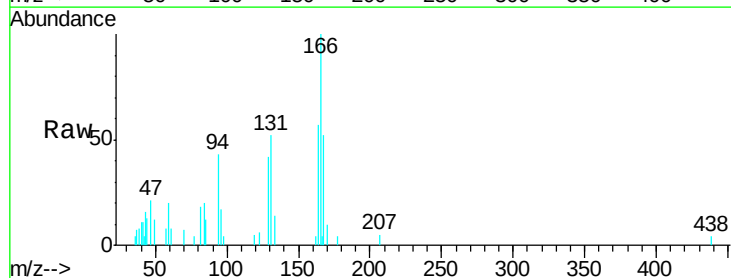


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

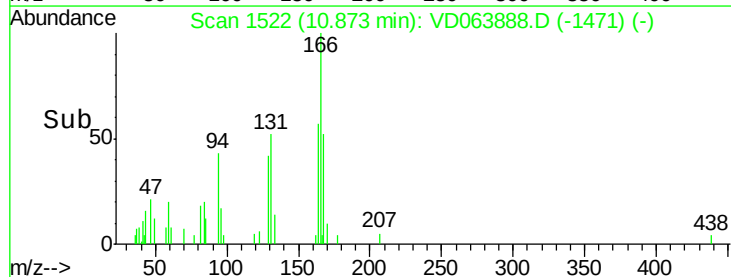
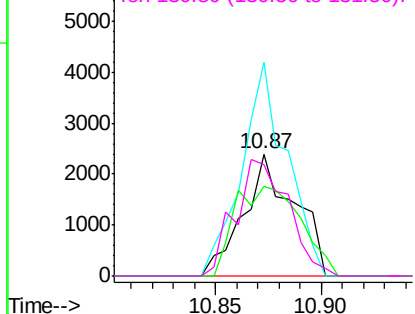


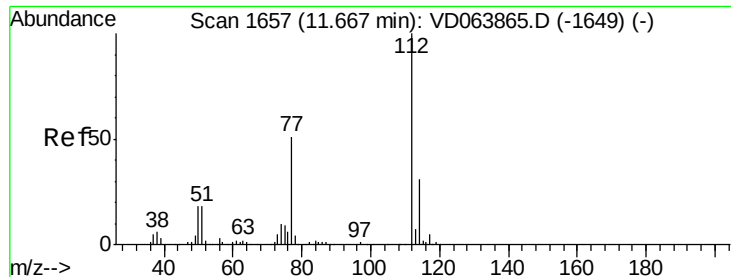
#64
Tetrachloroethene
Concen: 2.069 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion:164 Resp: 4033
Ion Ratio Lower Upper
164 100
166 175.6 103.8 155.6#
129 73.4 68.9 103.3
131 91.5 70.9 106.3



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

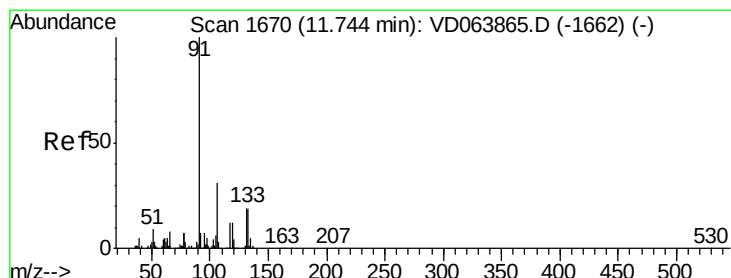
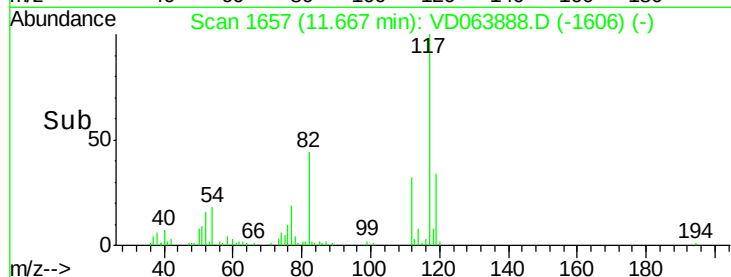
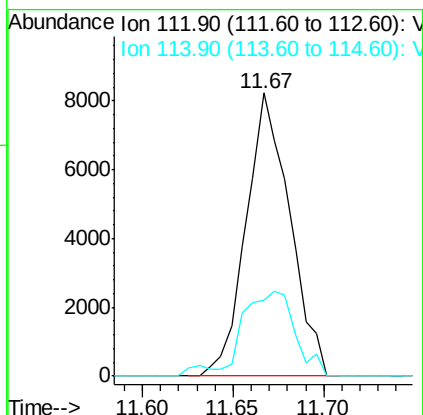
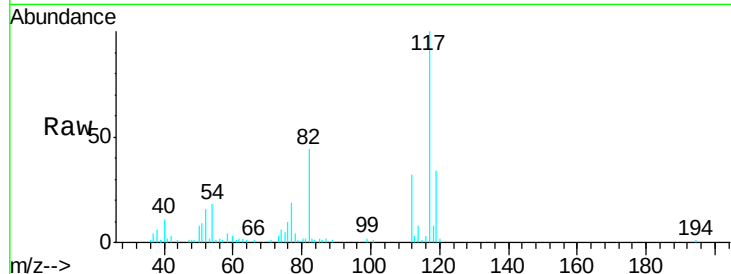




#65
Chlorobenzene
Concen: 2.409 ug/l
RT: 11.67 min Scan# 1657
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

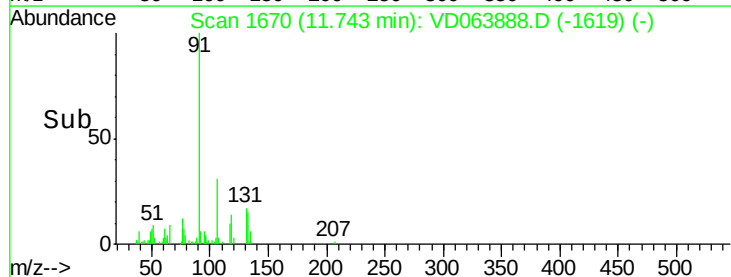
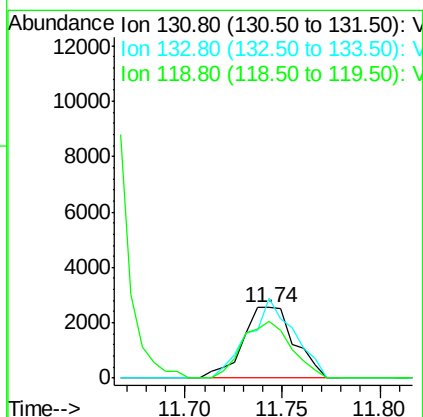
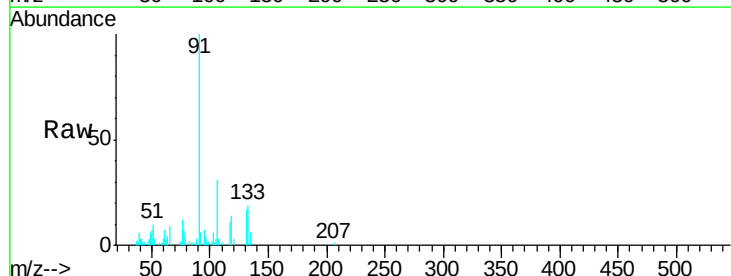
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

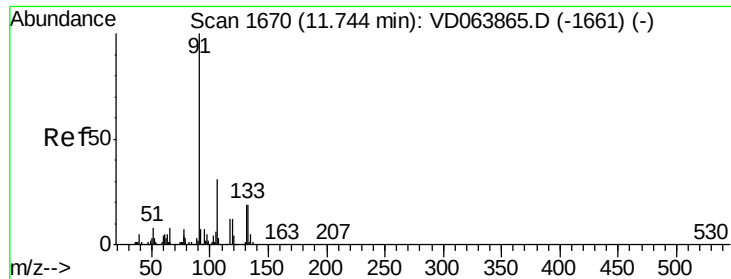
Tgt Ion:112 Resp: 13810
Ion Ratio Lower Upper
112 100
114 26.8 25.1 37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 2.204 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

Tgt Ion:131 Resp: 4656
Ion Ratio Lower Upper
131 100
133 99.8 48.9 146.7
119 76.3 32.6 97.8





#67

Ethyl Benzene

Concen: 2.363 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

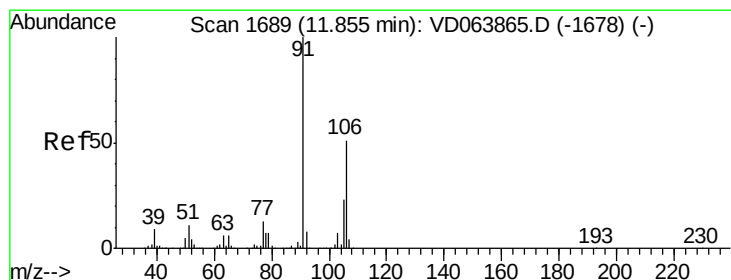
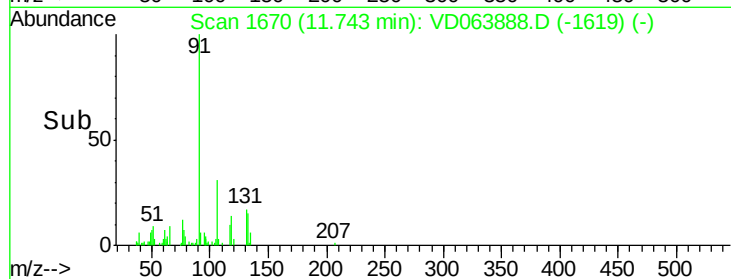
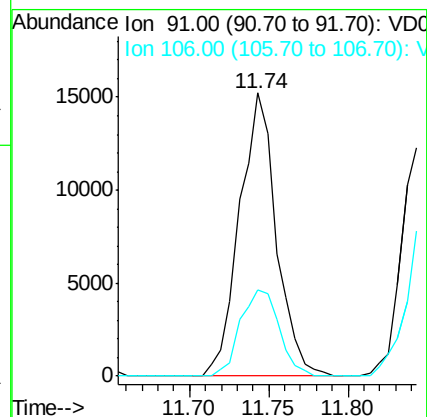
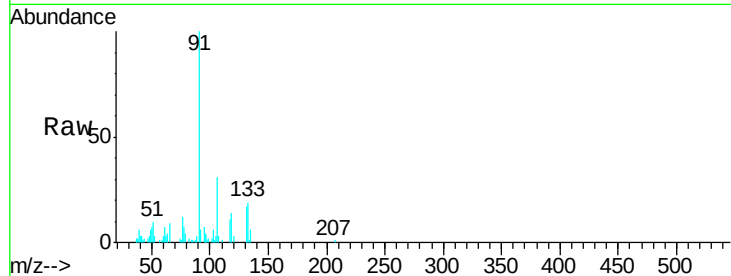
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 91 Resp: 24430

Ion Ratio Lower Upper

91 100

106 30.6 24.6 37.0



#68

m/p-Xylenes

Concen: 4.497 ug/l

RT: 11.85 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD063888.D

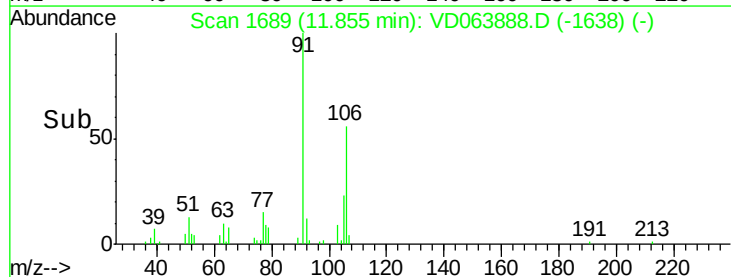
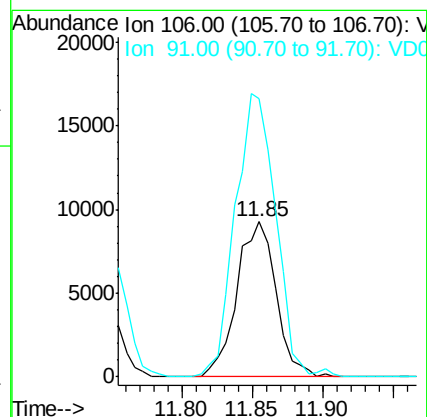
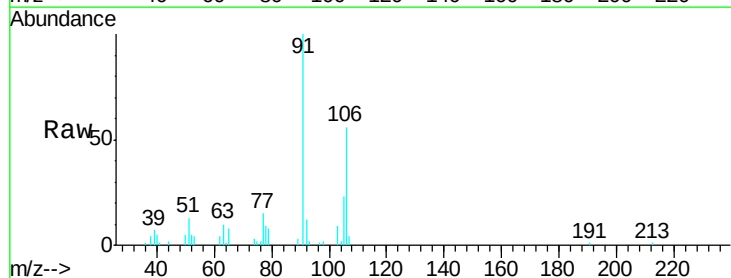
Acq: 04 Oct 2019 16:44

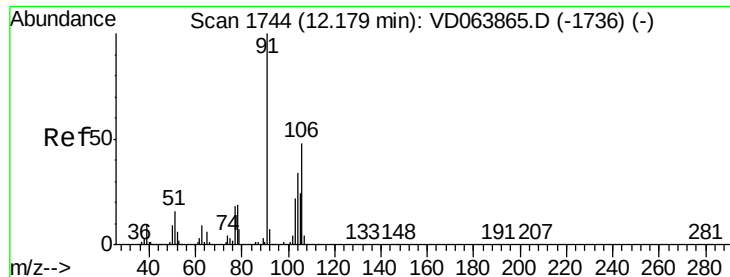
Tgt Ion: 106 Resp: 17947

Ion Ratio Lower Upper

106 100

91 187.9 154.8 232.2

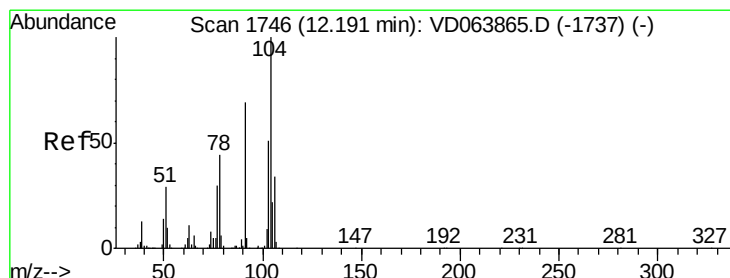
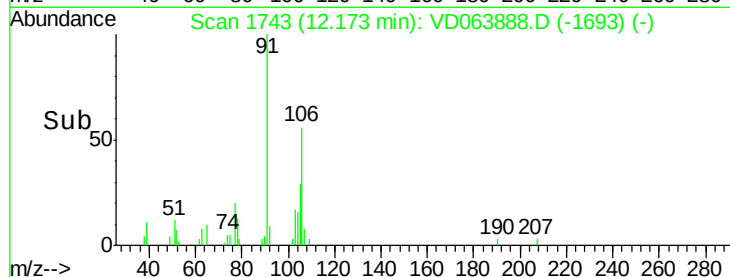
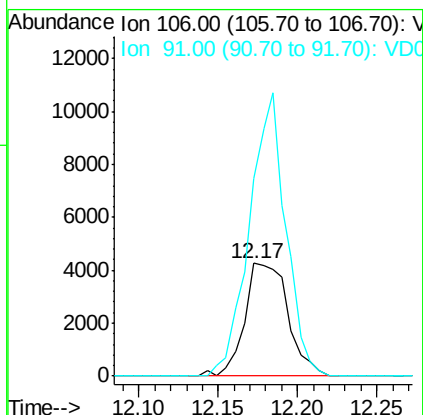
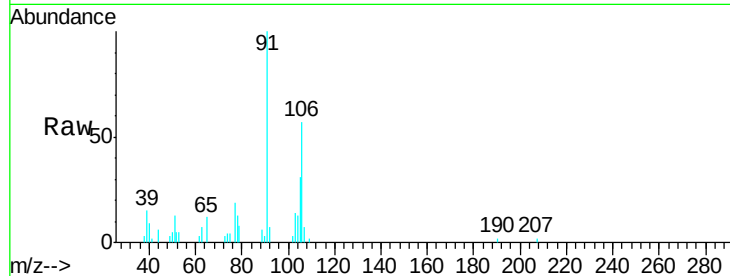




#69
o-Xylene
Concen: 2.117 ug/l
RT: 12.17 min Scan# 1743
Delta R.T. -0.01 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

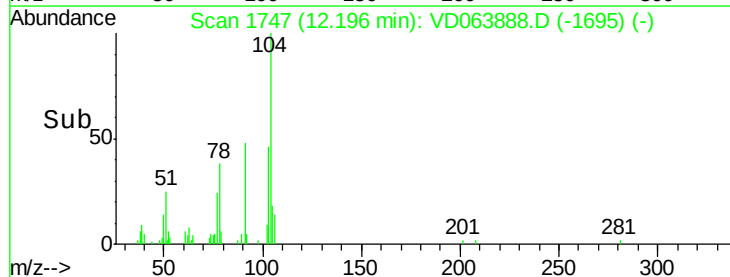
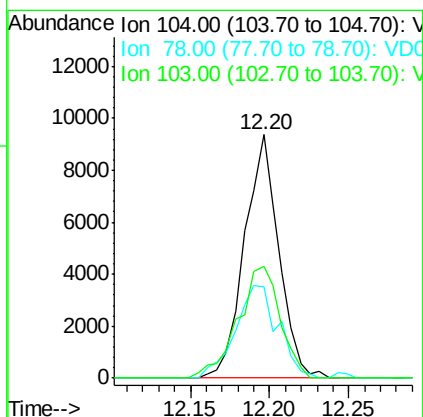
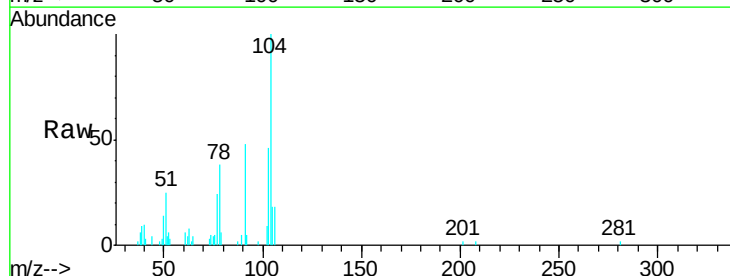
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

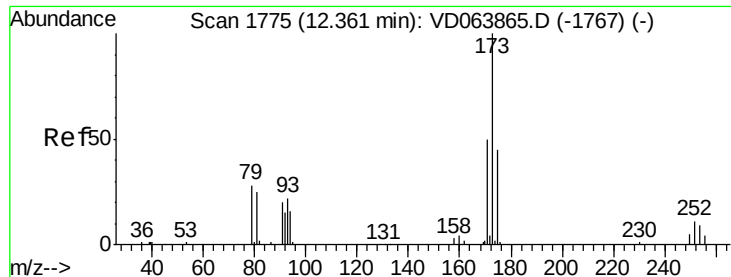
Tgt Ion:106 Resp: 8089
Ion Ratio Lower Upper
106 100
91 210.9 103.9 311.7



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

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

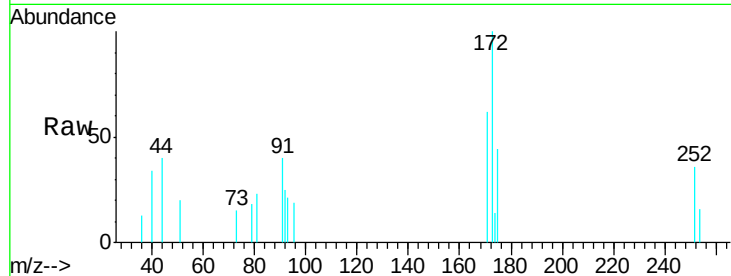




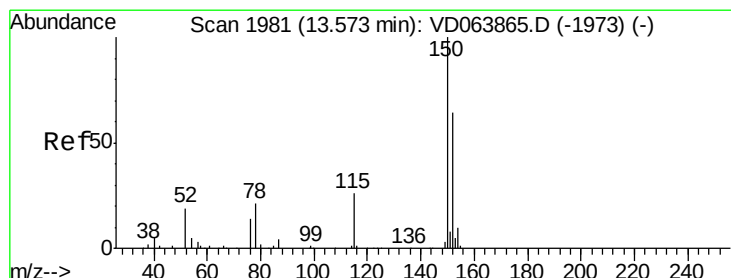
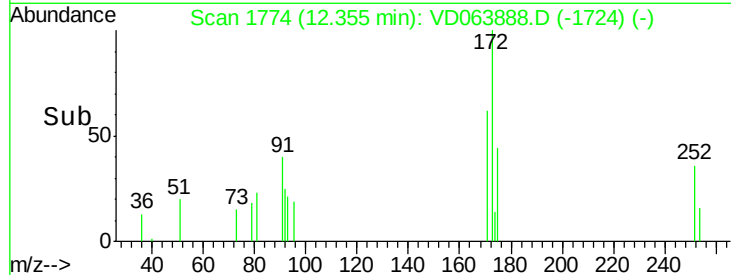
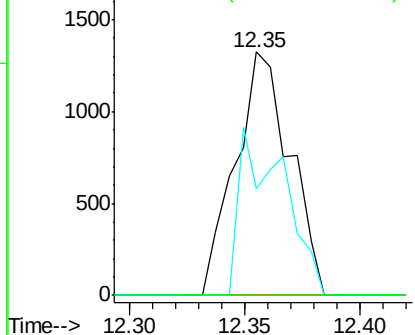
#71
 Bromoform
 Concen: 1.925 ug/l
 RT: 12.35 min Scan# 1774
 Delta R.T. -0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

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

Tgt Ion:173 Resp: 2183
 Ion Ratio Lower Upper
 173 100
 175 56.8 24.6 74.0
 254 0.0 0.0 0.0

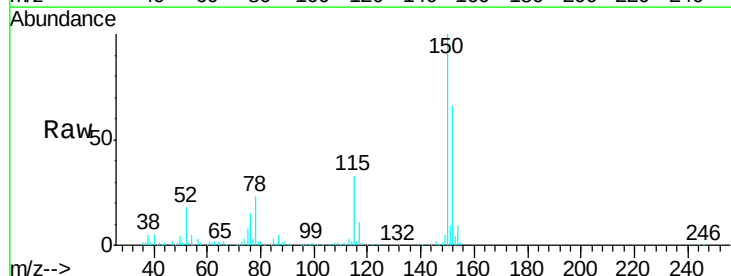


Abundance Ion 172.70 (172.40 to 173.40): V
 Ion 174.70 (174.40 to 175.40): V
 Ion 254.40 (254.10 to 255.10): V

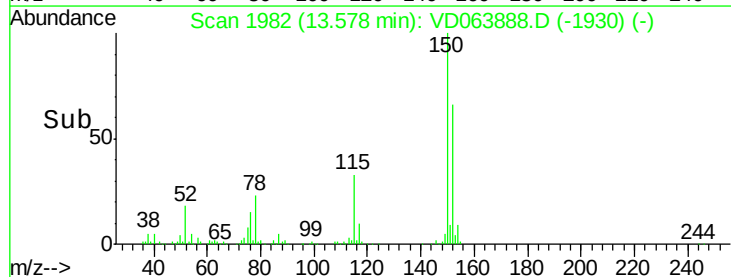
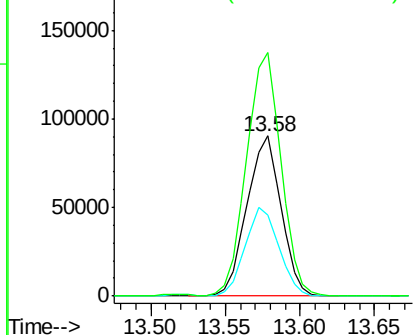


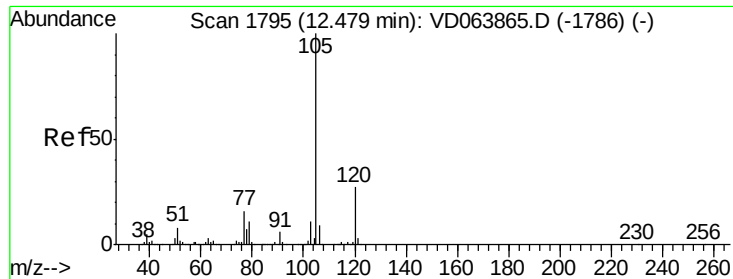
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.58 min Scan# 1982
 Delta R.T. 0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

Tgt Ion:152 Resp: 142293
 Ion Ratio Lower Upper
 152 100
 115 55.2 25.9 77.7
 150 153.9 0.0 344.2



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





#73

Isopropylbenzene

Concen: 2.321 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

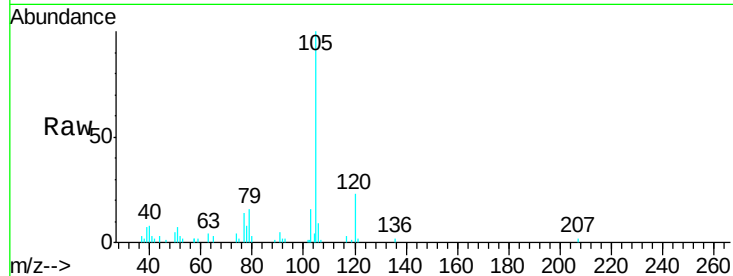
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion:105 Resp: 22199

Ion Ratio Lower Upper

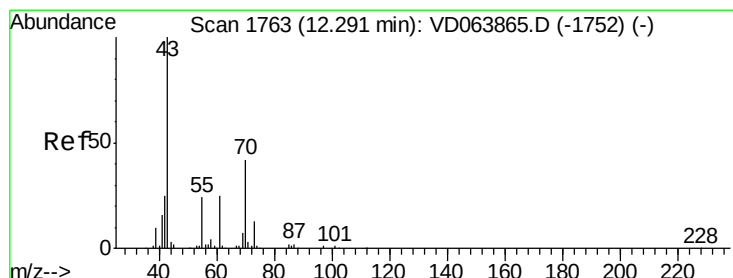
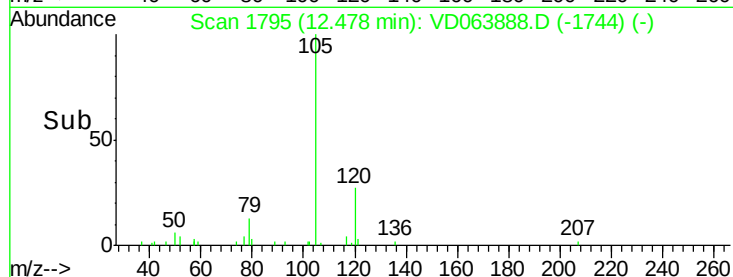
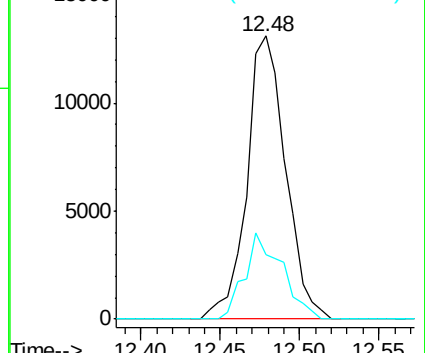
105 100

120 29.4 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-amyl acetate

Concen: 2.453 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion: 43 Resp: 5051

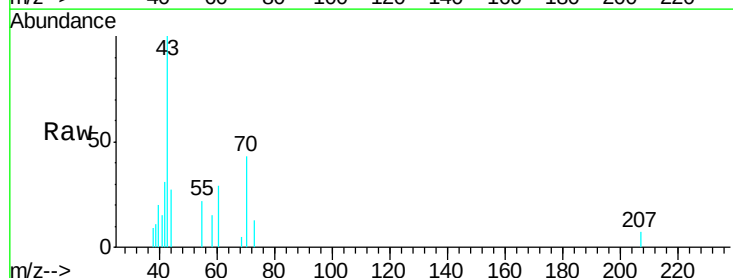
Ion Ratio Lower Upper

43 100

70 45.6 35.8 53.6

55 24.8 19.4 29.0

61 23.4 20.4 30.6

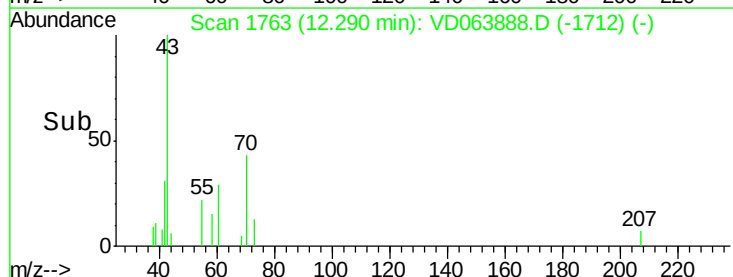
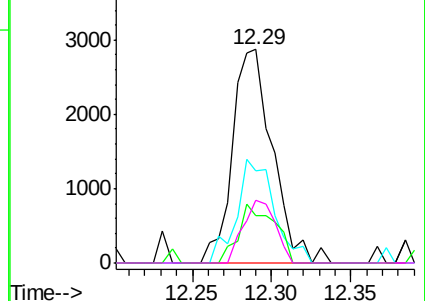


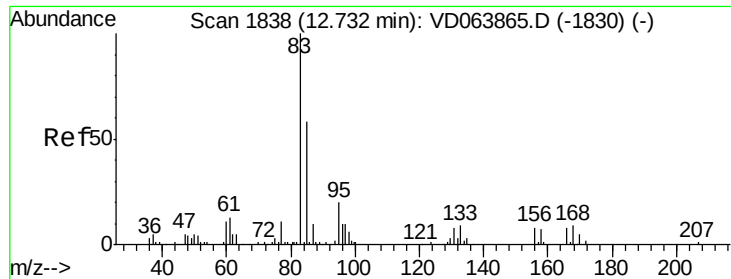
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.473 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

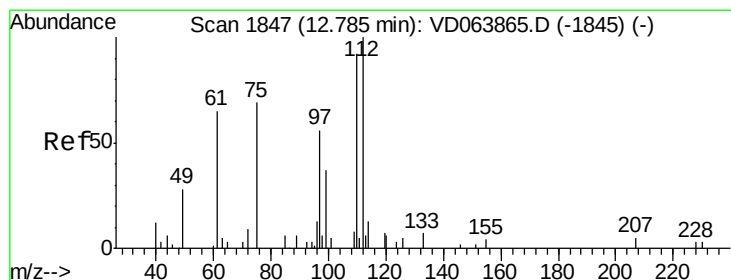
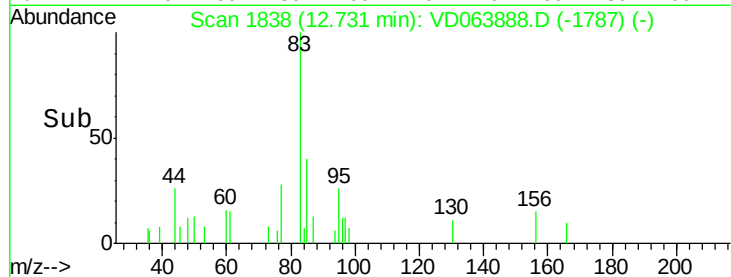
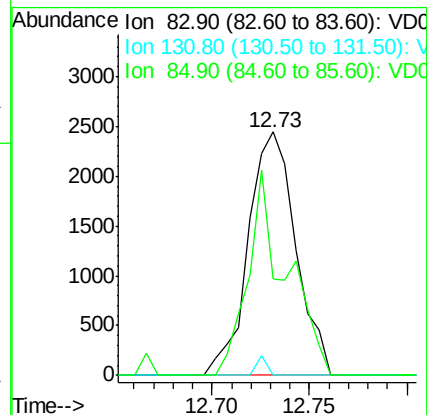
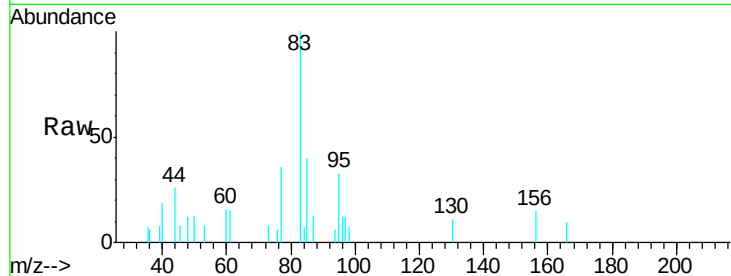
Tgt Ion: 83 Resp: 4116

Ion Ratio Lower Upper

83 100

131 1.7 5.6 16.8#

85 68.1 32.3 96.8



#76

1,2,3-Trichloropropane

Concen: 5.657 ug/l

RT: 12.78 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VD063888.D

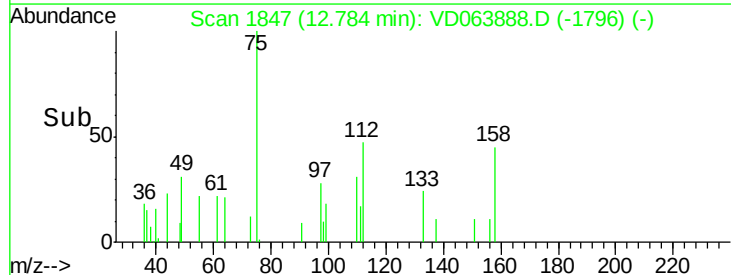
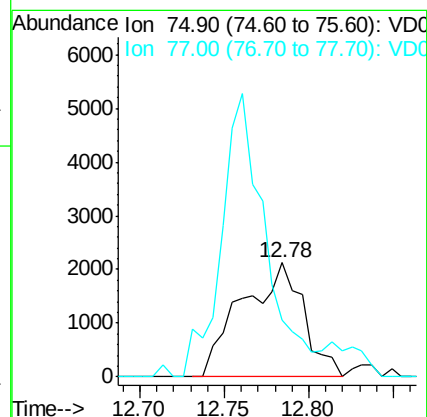
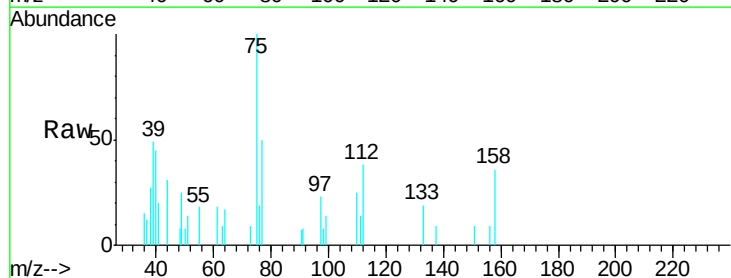
Acq: 04 Oct 2019 16:44

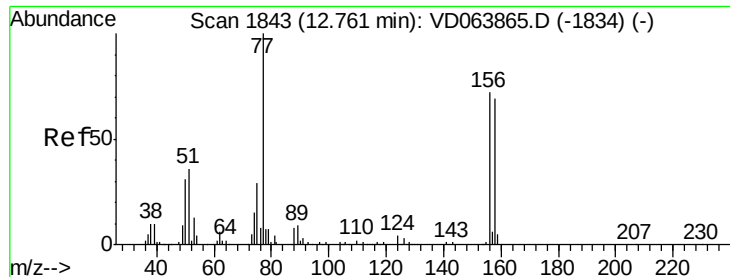
Tgt Ion: 75 Resp: 5391

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 2.112 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

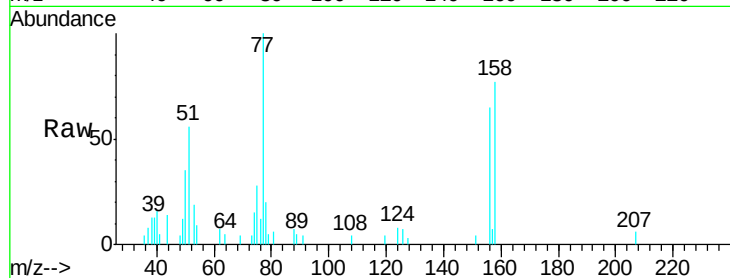
Tgt Ion:156 Resp: 5034

Ion Ratio Lower Upper

156 100

77 194.8 80.3 241.0

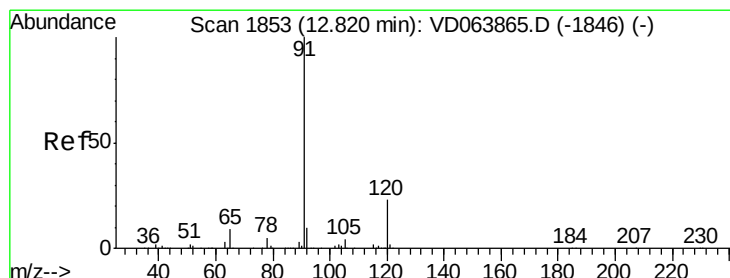
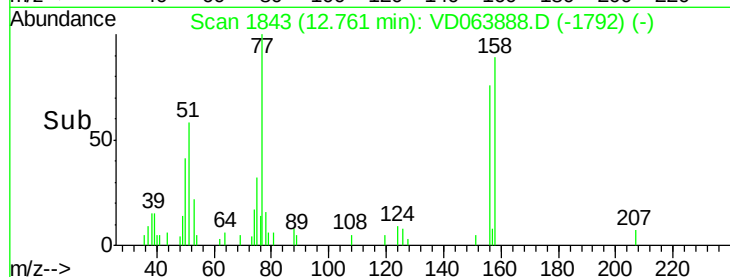
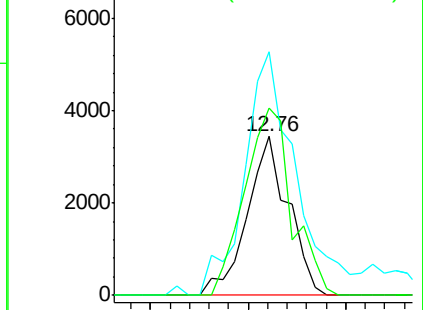
158 135.9 47.4 142.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.362 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VD063888.D

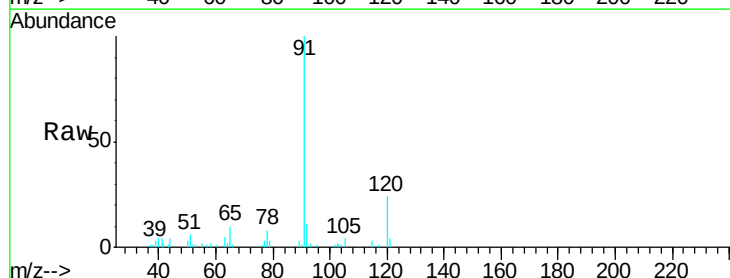
Acq: 04 Oct 2019 16:44

Tgt Ion: 91 Resp: 26525

Ion Ratio Lower Upper

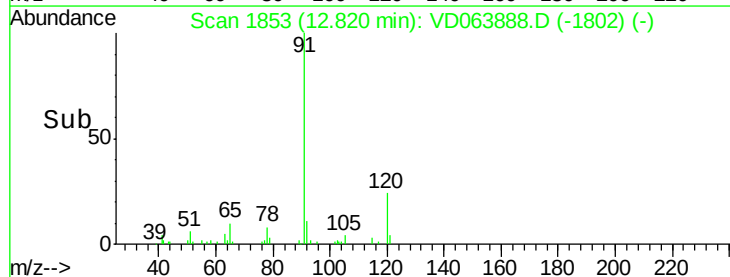
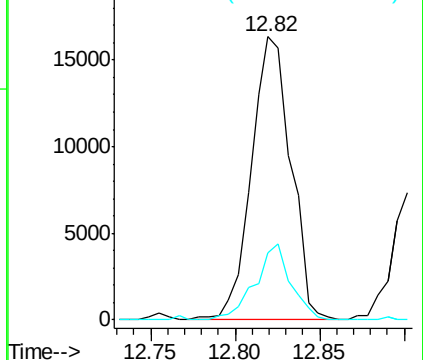
91 100

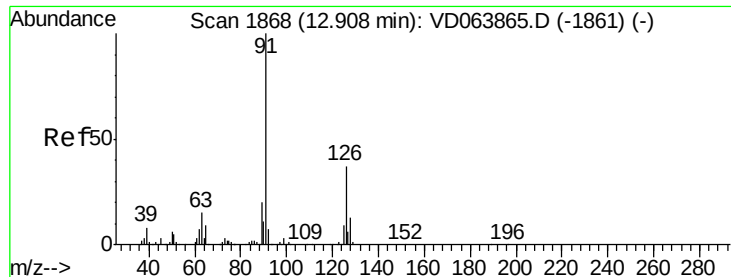
120 24.1 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.356 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

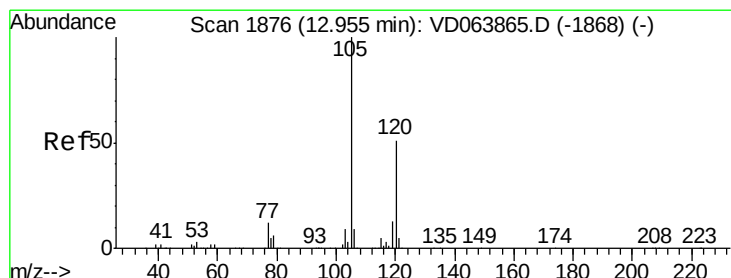
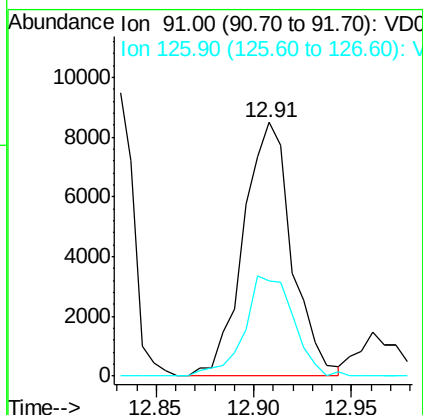
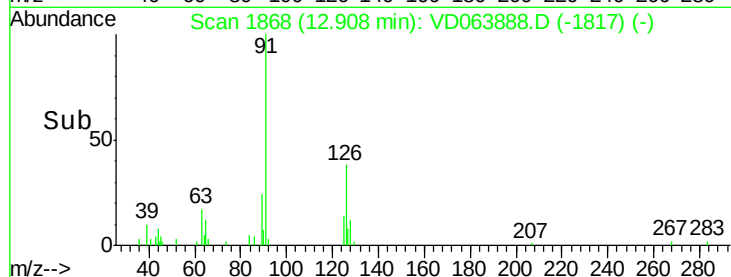
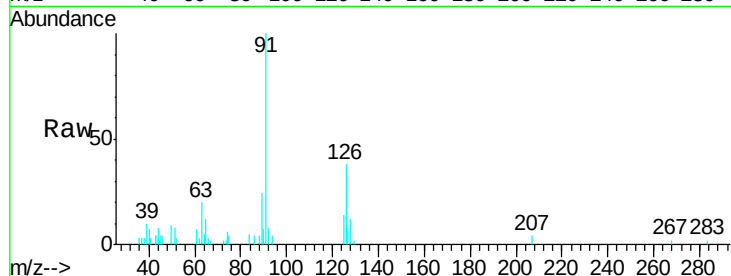
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 91 Resp: 14589

Ion Ratio Lower Upper

91 100

126 39.9 18.4 55.2



#80

1,3,5-Trimethylbenzene

Concen: 2.197 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.01 min

Lab File: VD063888.D

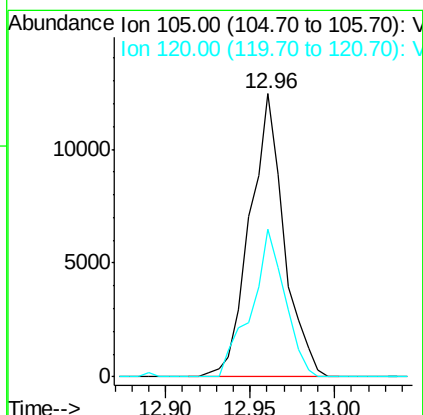
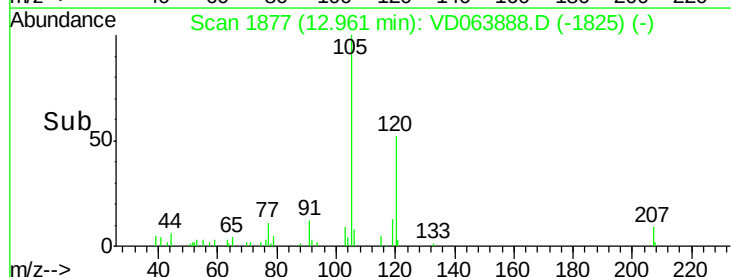
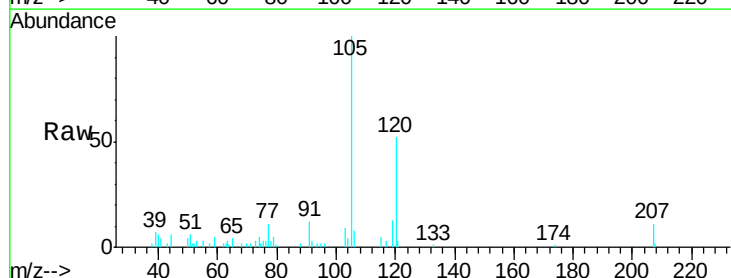
Acq: 04 Oct 2019 16:44

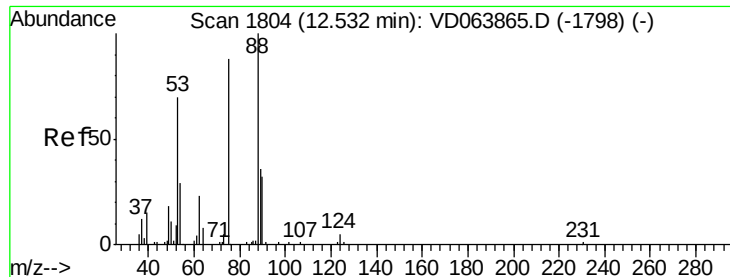
Tgt Ion: 105 Resp: 17536

Ion Ratio Lower Upper

105 100

120 50.9 25.9 77.8





#81

trans-1,4-Dichloro-2-butene

Concen: 124.552 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

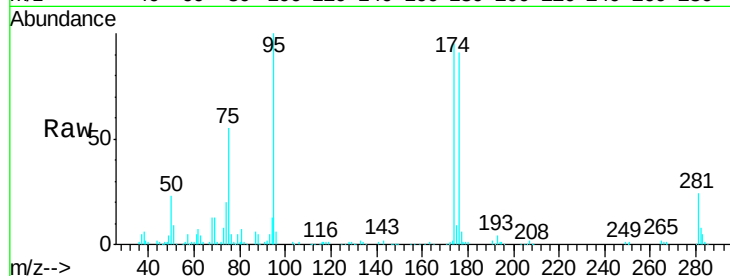
Tgt Ion: 75 Resp: 67079

Ion Ratio Lower Upper

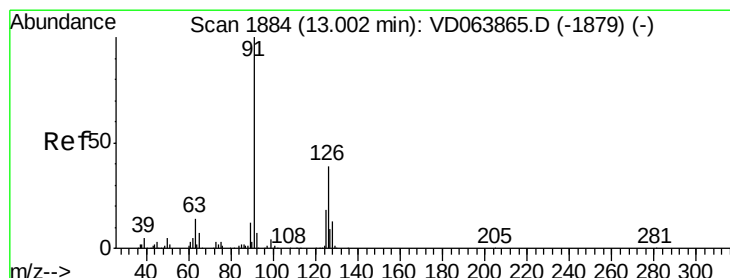
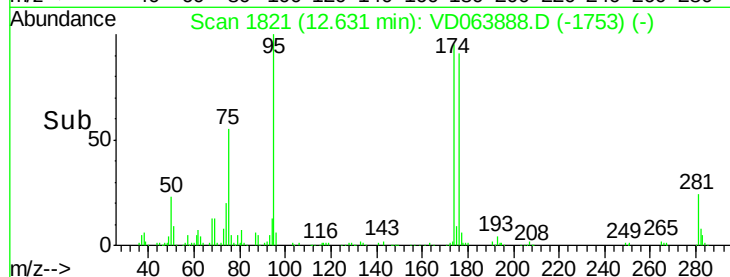
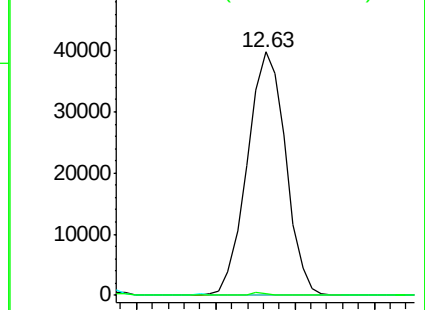
75 100

53 0.1 75.0 112.6#

89 0.4 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 2.242 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.01 min

Lab File: VD063888.D

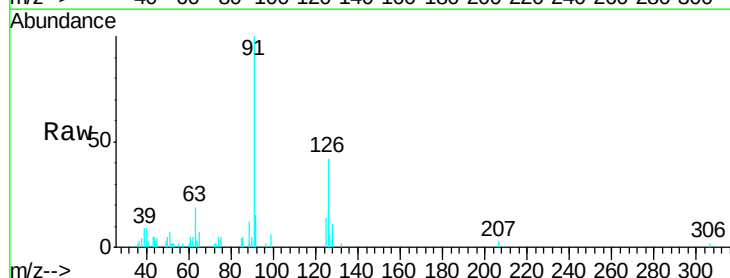
Acq: 04 Oct 2019 16:44

Tgt Ion: 91 Resp: 14723

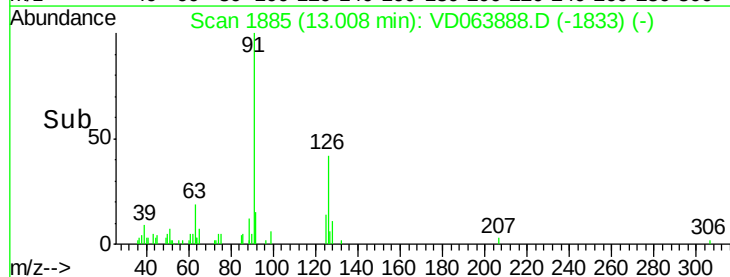
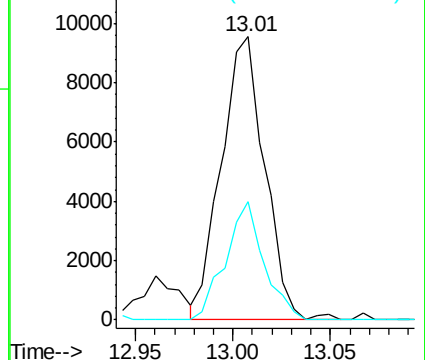
Ion Ratio Lower Upper

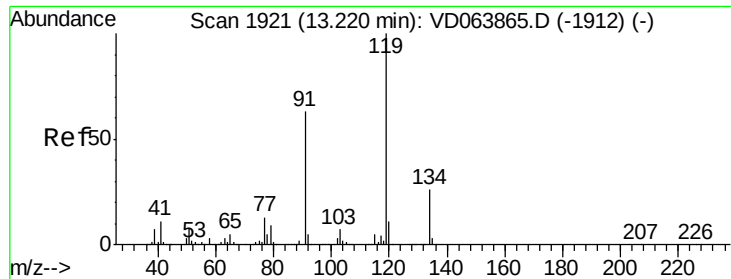
91 100

126 36.8 18.6 55.8



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

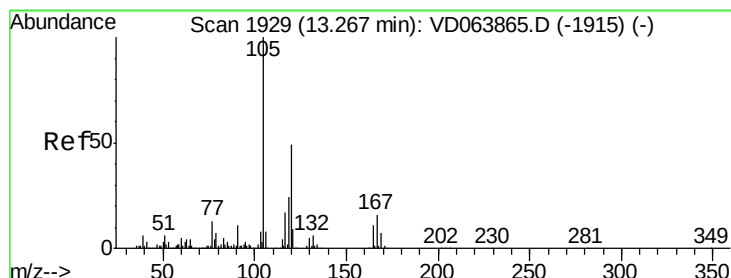
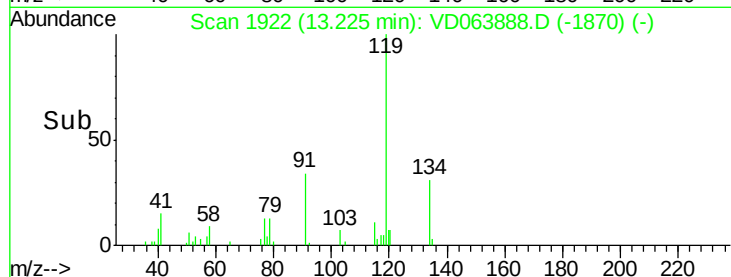
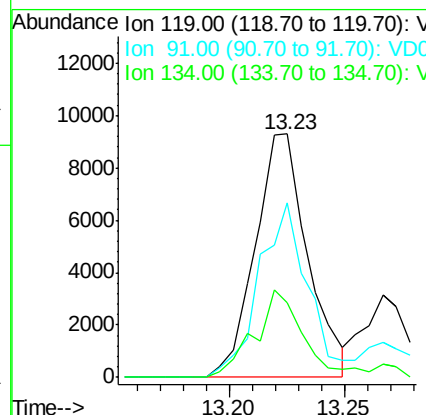
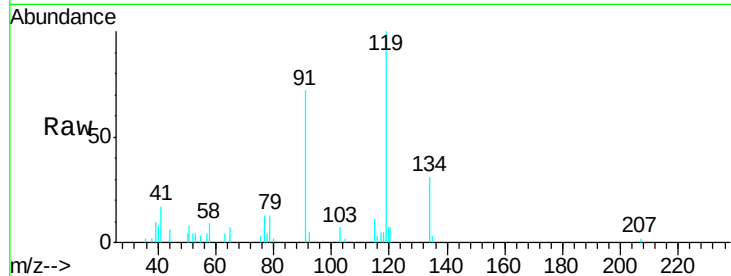




#83
 tert-Butylbenzene
 Concen: 2.074 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

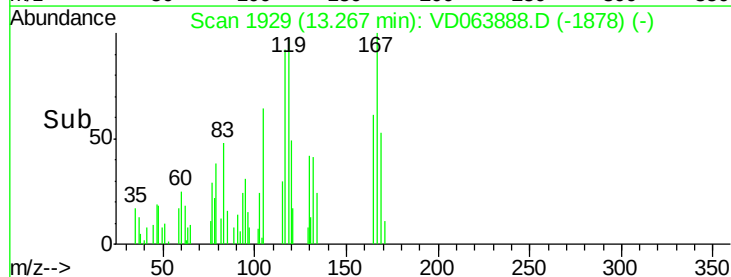
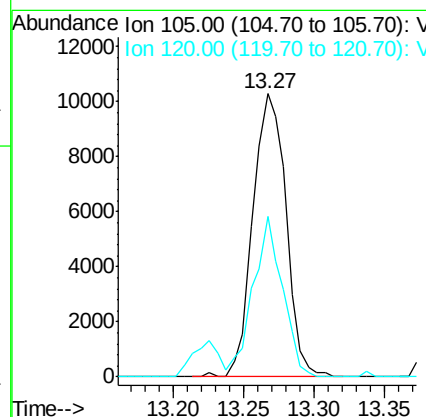
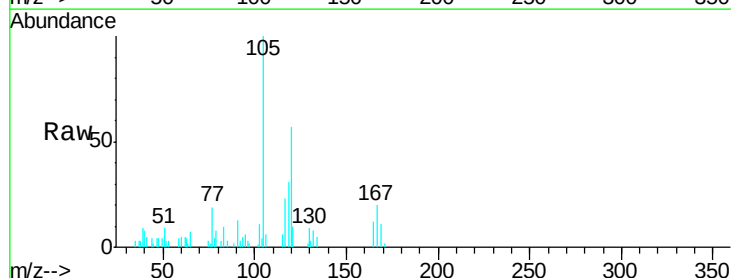
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

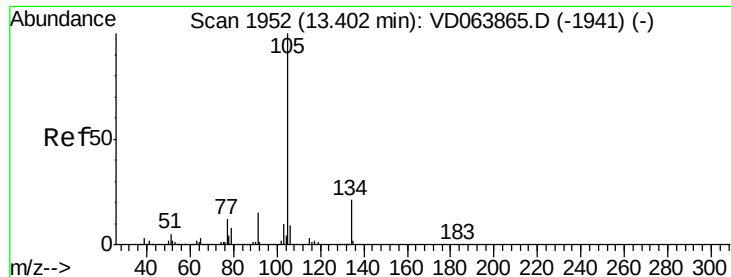
Tgt Ion:119 Resp: 14728
 Ion Ratio Lower Upper
 119 100
 91 65.9 30.0 90.0
 134 32.0 13.0 38.9



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

Tgt Ion:105 Resp: 16982
 Ion Ratio Lower Upper
 105 100
 120 50.4 23.8 71.5





#85

sec-Butylbenzene

Concen: 2.413 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

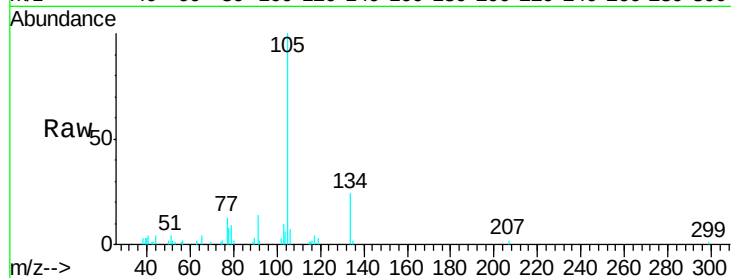
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion:105 Resp: 23146

Ion Ratio Lower Upper

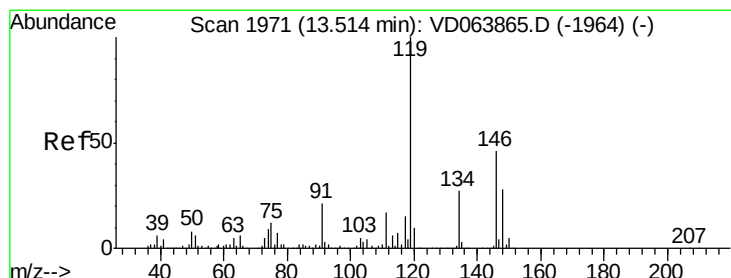
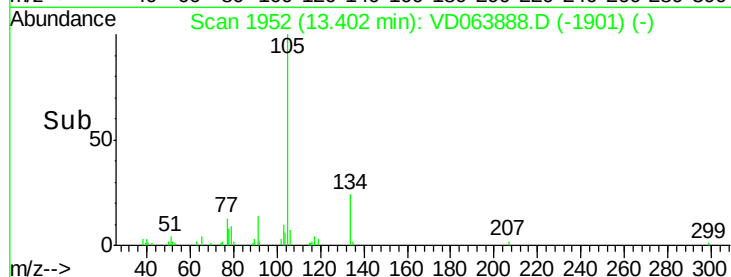
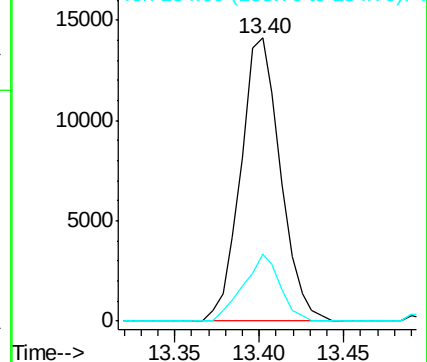
105 100

134 21.7 10.6 31.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.153 ug/l

RT: 13.51 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

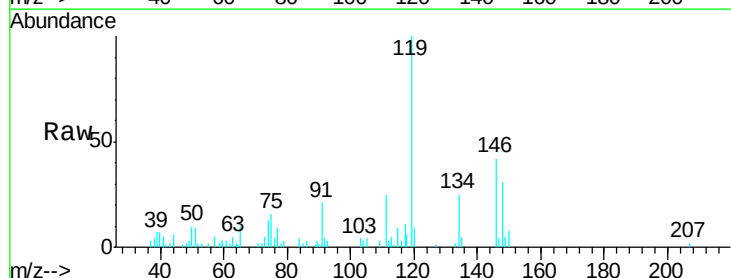
Tgt Ion:119 Resp: 19537

Ion Ratio Lower Upper

119 100

134 30.3 13.9 41.6

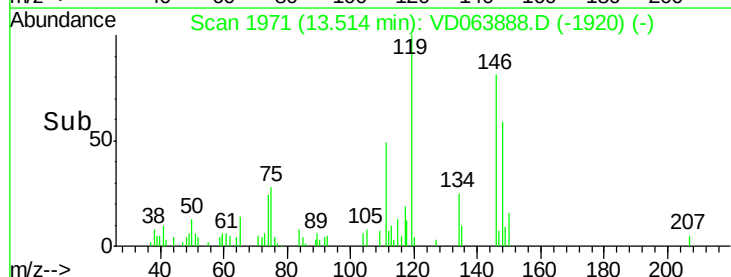
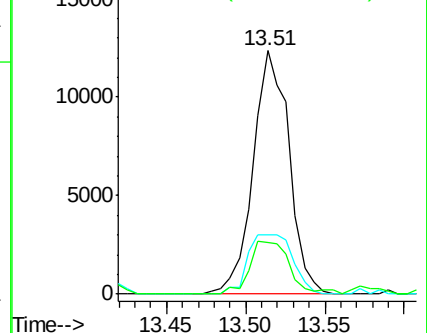
91 24.0 11.2 33.5

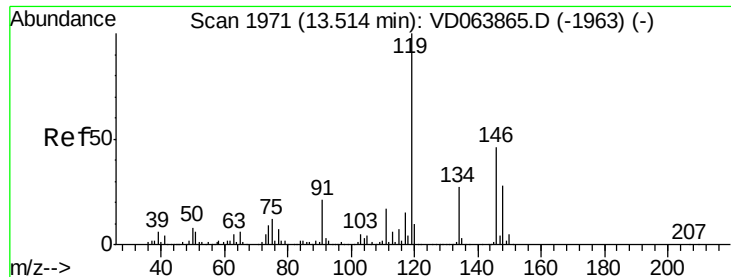


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 2.243 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.01 min

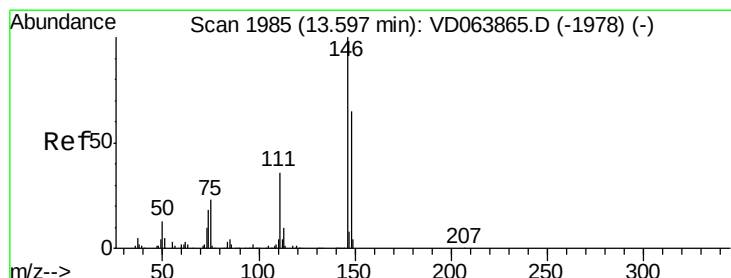
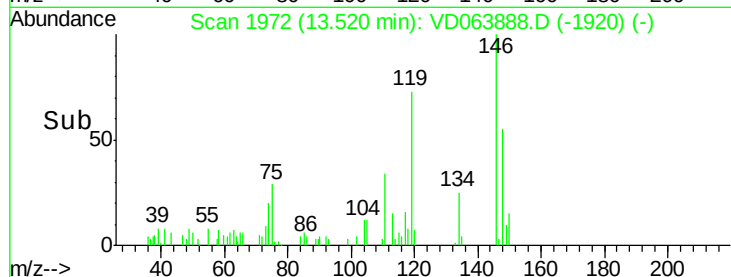
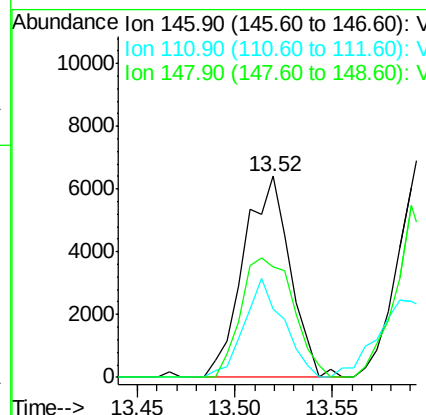
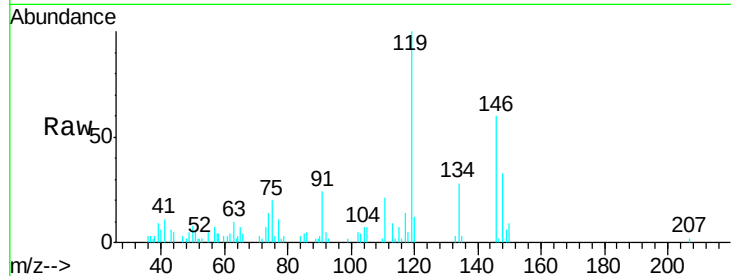
Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

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

Tgt Ion:146 Resp: 10563

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



#88

1,4-Dichlorobenzene

Concen: 2.526 ug/l

RT: 13.60 min Scan# 1985

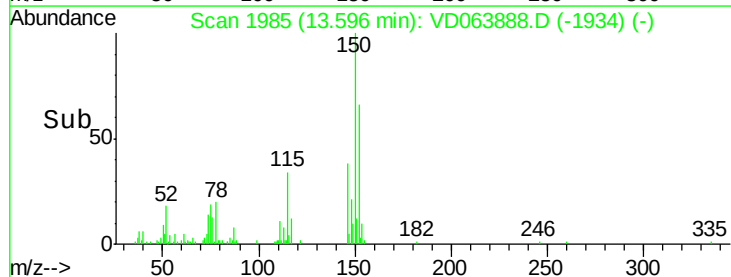
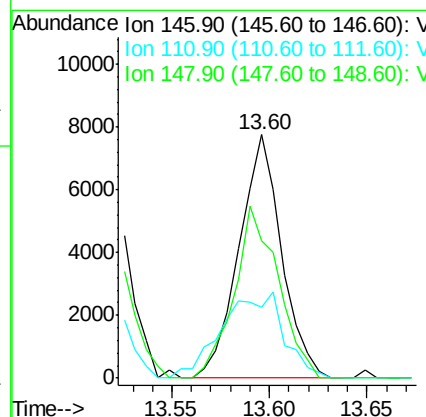
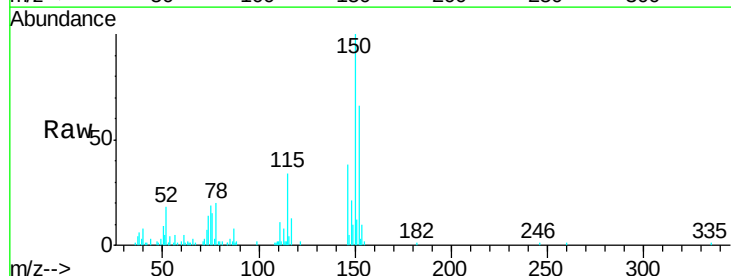
Delta R.T. -0.00 min

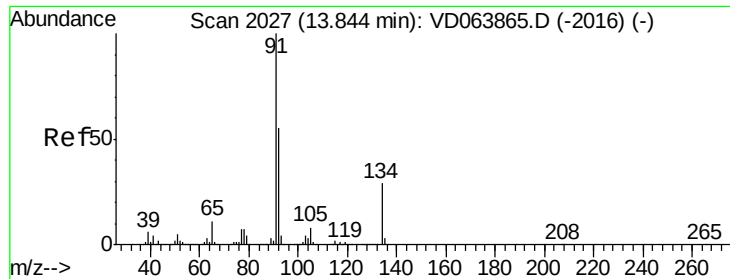
Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Tgt Ion:146 Resp: 11734

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

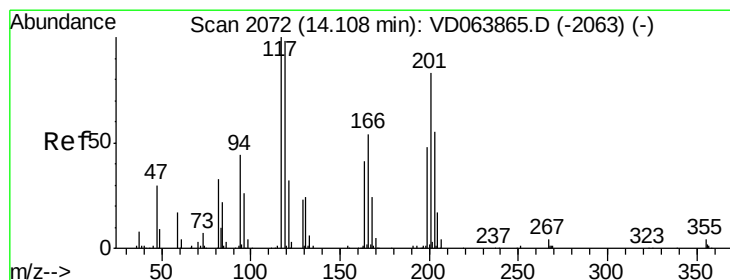
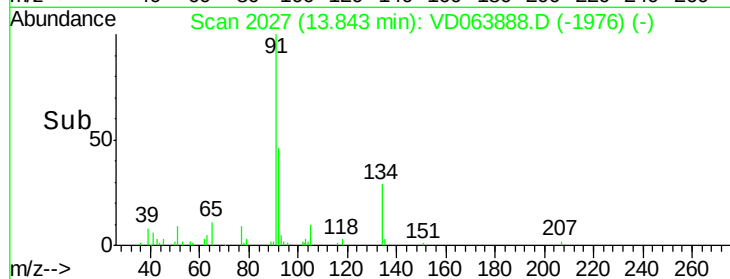
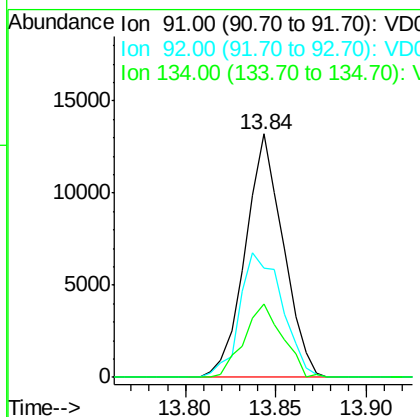
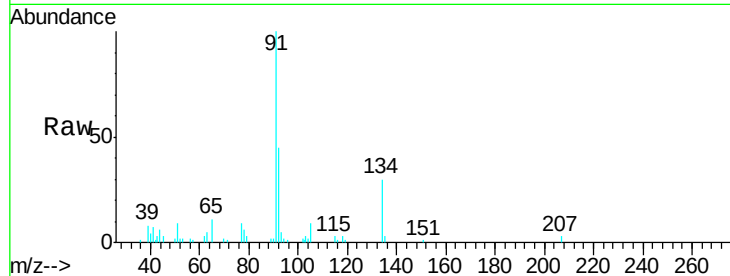




#89
n-Butylbenzene
Concen: 2.273 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063888.D
Acq: 04 Oct 2019 16:44

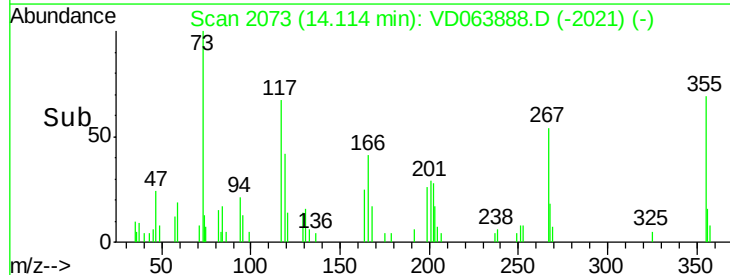
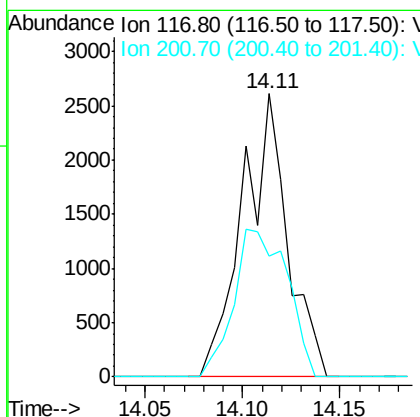
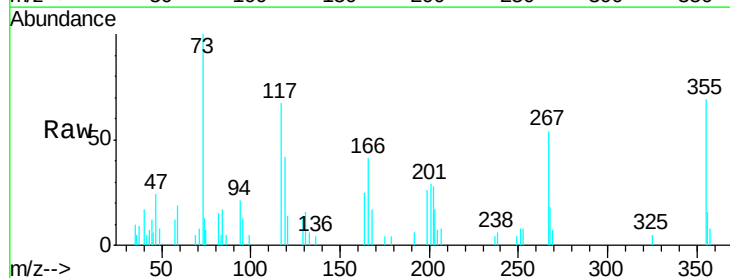
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

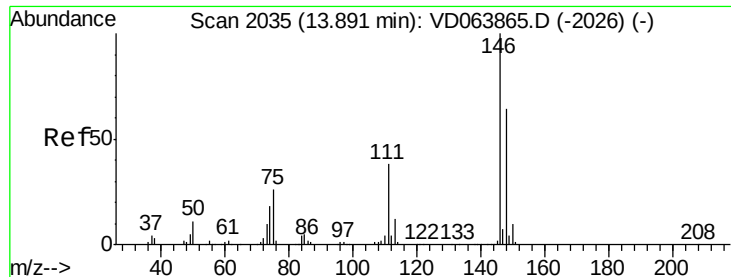
Tgt Ion: 91 Resp: 19200
Ion Ratio Lower Upper
91 100
92 57.4 26.8 80.3
134 30.5 14.4 43.0



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

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

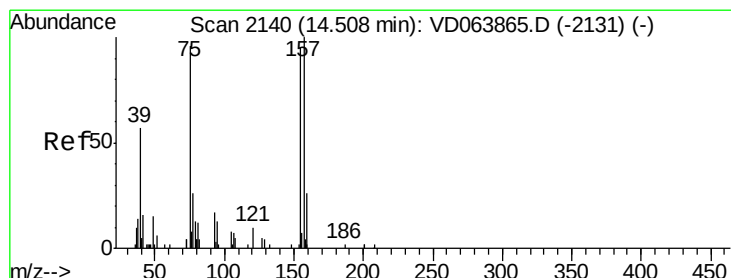
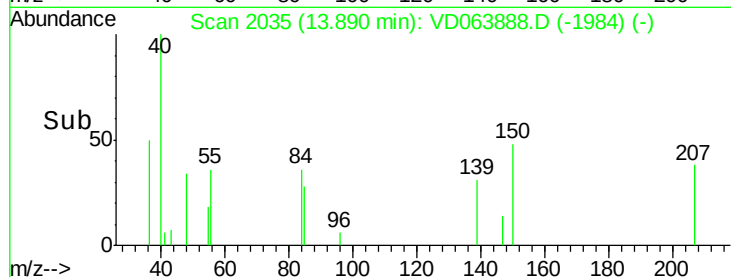
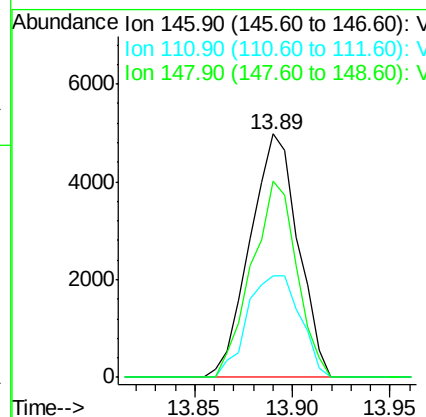
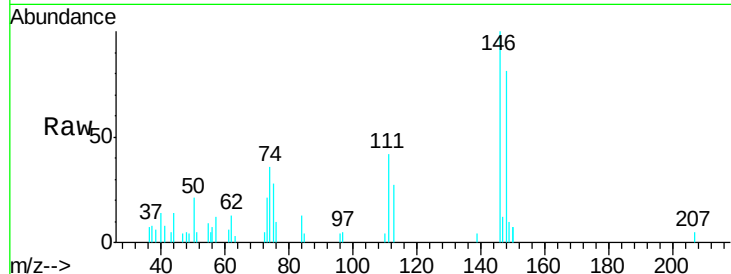




#91
 1,2-Dichlorobenzene
 Concen: 2.090 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

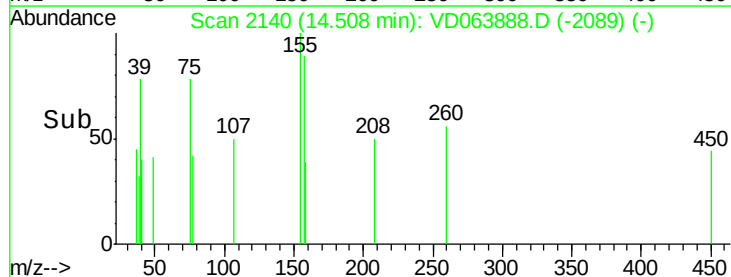
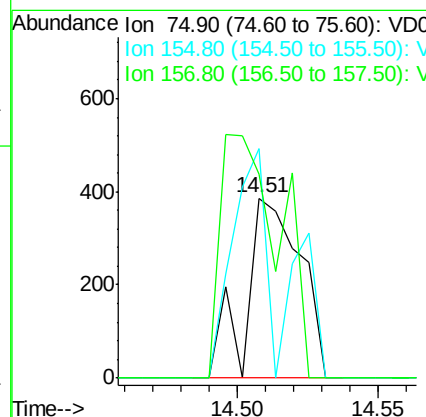
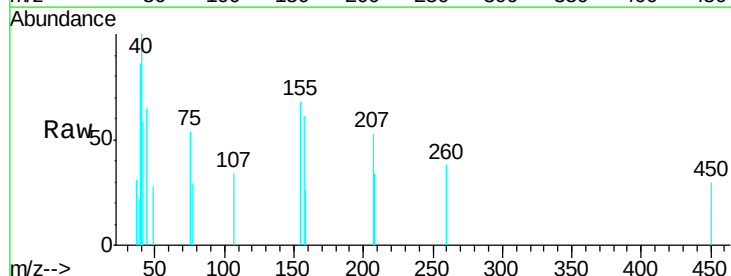
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

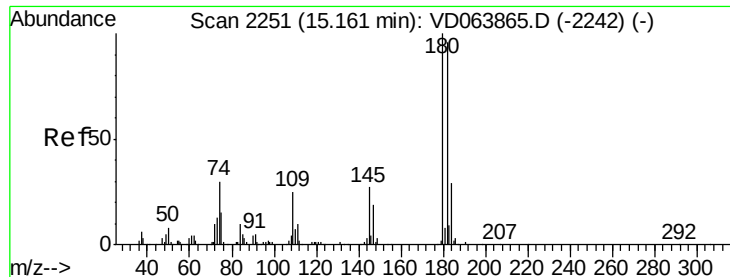
Tgt Ion: 146 Resp: 8482
 Ion Ratio Lower Upper
 146 100
 111 46.0 18.6 55.6
 148 75.7 31.6 95.0



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

Tgt Ion: 75 Resp: 518
 Ion Ratio Lower Upper
 75 100
 155 76.6 43.9 131.6
 157 146.5 56.0 167.9

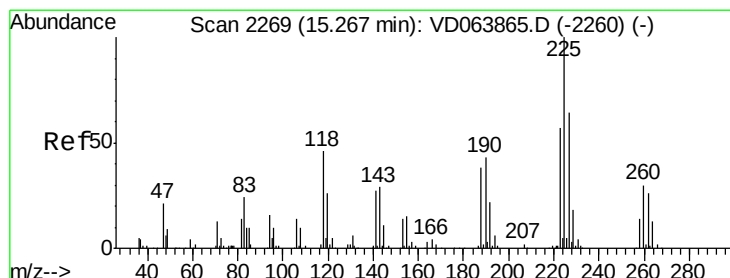
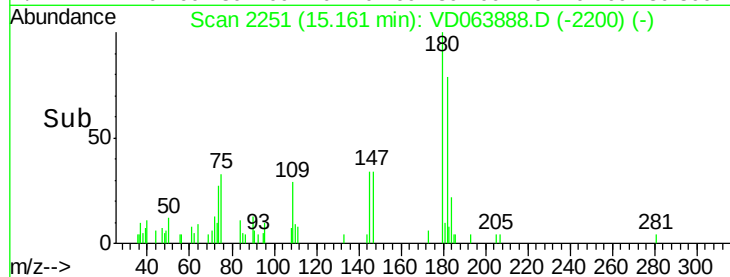
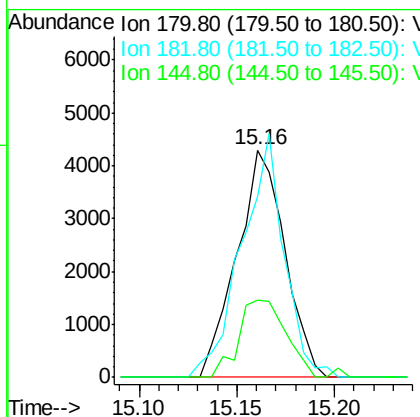
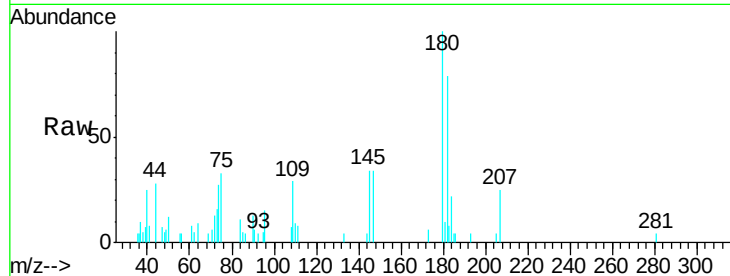




#93
 1,2,4-Trichlorobenzene
 Concen: 2.342 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VD063888.D
 Acq: 04 Oct 2019 16:44

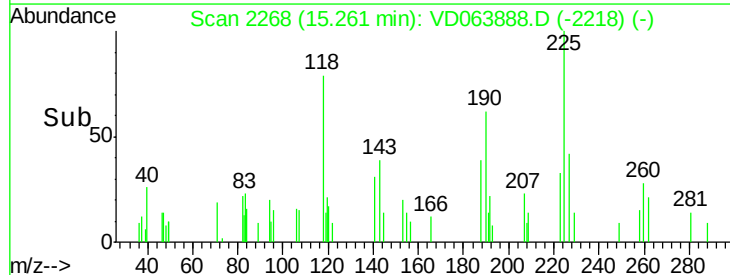
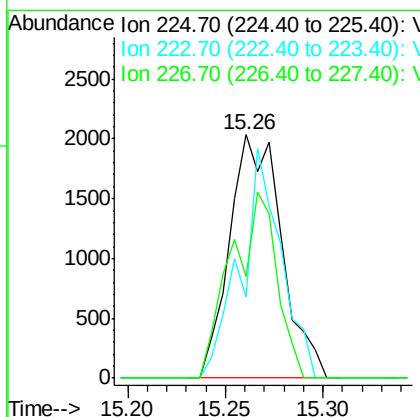
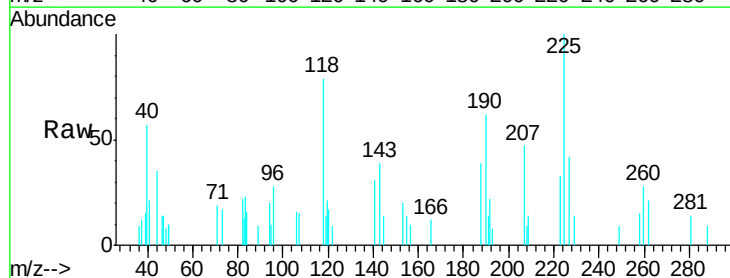
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

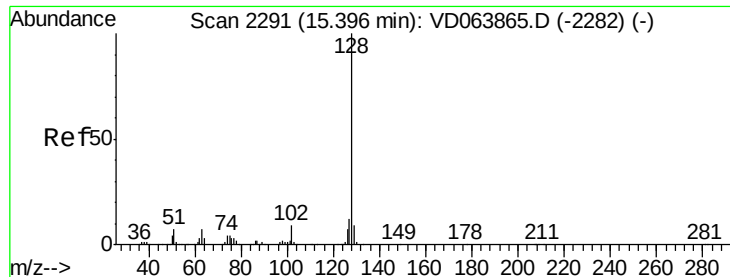
Tgt Ion:180 Resp: 7332
 Ion Ratio Lower Upper
 180 100
 182 94.4 47.4 142.3
 145 33.6 13.9 41.7



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

Tgt Ion:225 Resp: 3745
 Ion Ratio Lower Upper
 225 100
 223 73.2 29.5 88.6
 227 66.9 30.8 92.4





#95

Naphthalene

Concen: 2.137 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.01 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

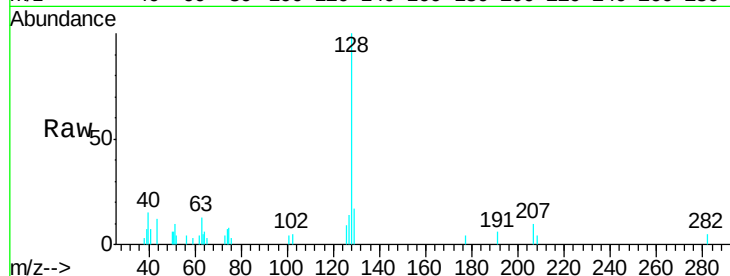
Tgt Ion:128 Resp: 11246

Ion Ratio Lower Upper

128 100

127 16.5 10.6 16.0#

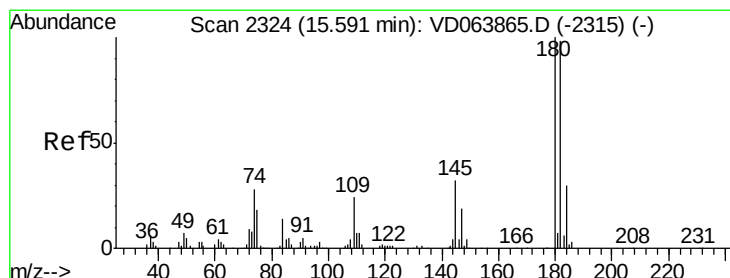
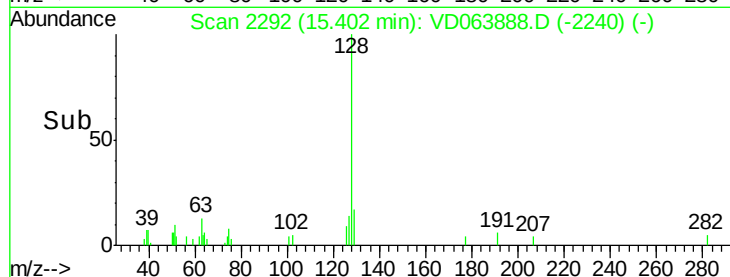
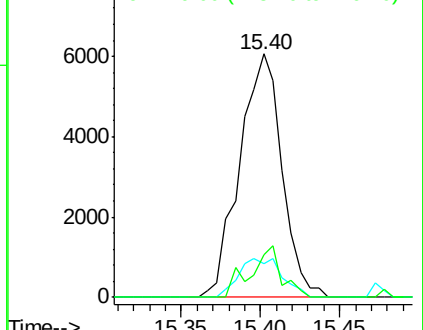
129 15.3 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.423 ug/l

RT: 15.59 min Scan# 2324

Delta R.T. -0.00 min

Lab File: VD063888.D

Acq: 04 Oct 2019 16:44

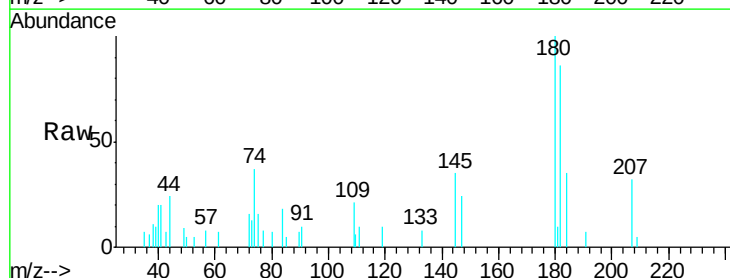
Tgt Ion:180 Resp: 6545

Ion Ratio Lower Upper

180 100

182 95.5 47.0 141.0

145 34.8 15.3 45.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

