

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100918\
 Data File : VF060501.D
 Acq On : 9 Oct 2018 21:00
 Operator : VA/AP
 Sample : J5164-01LOD/MDL
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Manual Integrations
 APPROVED

apatel
 10/10/2018 12:34:20 PM

Quant Time: Oct 10 09:10:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 10 02:28:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	263632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	423426	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	364265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	219949	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.98	65	215762	53.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.94%	
35) Dibromofluoromethane	4.26	113	232524	59.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.32%	
50) Toluene-d8	7.68	98	481475	51.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.78%	
62) 4-Bromofluorobenzene	11.48	95	221061	53.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.56%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.14	50	9600	2.995	ug/l #	88
4) Vinyl Chloride	1.18	62	7844	2.256	ug/l	95
5) Bromomethane	1.36	94	10020m	3.665	ug/l	
6) Chloroethane	1.42	64	4140	2.253	ug/l #	83
7) Trichlorofluoromethane	1.55	101	18140m	2.328	ug/l	
8) Diethyl Ether	1.69	74	2687m	2.410	ug/l	
9) 1,1,2-Trichlorotrifluoroet	1.87	101	9952	2.553	ug/l #	87
10) Methyl Iodide	1.95	142	14355	2.323	ug/l #	83
11) Tert butyl alcohol	2.67	59	3841m	18.335	ug/l	
12) 1,1-Dichloroethene	1.84	96	8702	2.673	ug/l	97
14) Allyl chloride	2.17	41	9995	2.083	ug/l #	85
15) Acrylonitrile	3.07	53	5379	12.196	ug/l #	76
17) Carbon Disulfide	1.89	76	19249	2.126	ug/l #	70
18) Methyl Acetate	2.44	43	10522	5.011	ug/l	97
19) Methyl tert-butyl Ether	2.52	73	17599	2.401	ug/l	98
20) Methylene Chloride	2.31	84	15154m	4.983	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	8652	2.847	ug/l #	90
22) Diisopropyl ether	2.91	45	24363	2.470	ug/l #	96
23) Vinyl Acetate	3.30	43	37889	10.971	ug/l #	94
24) 1,1-Dichloroethane	2.98	63	14593	2.204	ug/l #	93
25) 2-Butanone	4.50	43	16064	16.845	ug/l #	88
26) 2,2-Dichloropropane	3.74	77	8634	2.501	ug/l	86
27) cis-1,2-Dichloroethene	3.61	96	7471	2.106	ug/l	92
28) Bromochloromethane	3.86	49	6695	2.911	ug/l #	79
29) Tetrahydrofuran	4.22	42	7540	18.756	ug/l #	88
30) Chloroform	3.99	83	16750	2.186	ug/l #	80
31) Cyclohexane	3.83	56	10205	2.409	ug/l #	79
32) 1,1,1-Trichloroethane	4.24	97	12776	2.117	ug/l	91
36) 1,1-Dichloropropene	4.43	75	11925	2.421	ug/l #	91
37) Ethyl Acetate	4.27	43	5750m	3.305	ug/l	
38) Carbon Tetrachloride	4.13	117	11724	2.370	ug/l #	93
39) Methylcyclohexane	5.59	83	10638	2.294	ug/l	95
40) Benzene	4.77	78	21546	2.131	ug/l #	83
41) Methacrylonitrile	4.89	41	3148	3.185	ug/l	90

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	5.09	62	10699	2.332	ug/l	81
43) Isopropyl Acetate	7.08	43	7264	3.350	ug/l #	98
44) Trichloroethene	5.64	130	6974	2.214	ug/l	90
45) 1,2-Dichloropropane	6.38	63	5669	2.290	ug/l #	77
46) Dibromomethane	6.21	93	4405	2.218	ug/l #	62
47) Bromodichloromethane	6.51	83	11979	2.389	ug/l	86
48) Methyl methacrylate	6.84	41	3498	2.382	ug/l	93
49) 1,4-Dioxane	6.84	88	670	6.347	ug/l #	45
51) 4-Methyl-2-Pentanone	8.38	43	35331	23.359	ug/l	94
52) Toluene	7.74	92	12680	1.991	ug/l	92
53) t-1,3-Dichloropropene	8.40	75	7854	2.016	ug/l	99
54) cis-1,3-Dichloropropene	7.43	75	10030	2.211	ug/l #	83
55) 1,1,2-Trichloroethane	8.61	97	4037	2.063	ug/l #	91
56) Ethyl methacrylate	8.73	69	10465	4.621	ug/l #	91
57) 1,3-Dichloropropane	8.97	76	7718	2.290	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.74	63	3033	13.179	ug/l	100
59) 2-Hexanone	9.60	43	33349	30.481	ug/l	98
60) Dibromochloromethane	8.83	129	7308	2.379	ug/l	97
61) 1,2-Dibromoethane	9.10	107	4436	2.006	ug/l #	72
64) Tetrachloroethene	8.28	164	7623	2.640	ug/l #	82
65) Chlorobenzene	9.92	112	15593	2.204	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.04	131	6144	1.928	ug/l #	73
67) Ethyl Benzene	10.01	91	29765	2.230	ug/l	99
68) m/p-Xylenes	10.24	106	20839	4.574	ug/l	87
69) o-Xylene	10.80	106	10940	2.208	ug/l	93
70) Styrene	10.87	104	17959	2.518	ug/l	97
71) Bromoform	10.87	173	3601	2.229	ug/l #	72
73) Isopropylbenzene	11.21	105	36081	2.207	ug/l	99
74) N-amyl acetate	11.45	43	19816	5.568	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.77	83	6327	2.302	ug/l	83
76) 1,2,3-Trichloropropane	11.87	75	4726	2.225	ug/l	84
77) Bromobenzene	11.57	156	7360	2.026	ug/l	90
78) n-propylbenzene	11.67	91	44339	2.277	ug/l	97
79) 2-Chlorotoluene	11.79	91	27113	2.378	ug/l	87
80) 1,3,5-Trimethylbenzene	11.89	105	32168	2.345	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.94	75	3176	3.429	ug/l	96
82) 4-Chlorotoluene	11.97	91	25670	2.183	ug/l	97
83) tert-Butylbenzene	12.19	119	30389	2.204	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	30650	2.201	ug/l	95
85) sec-Butylbenzene	12.37	105	42002	2.246	ug/l	97
86) p-Isopropyltoluene	12.52	119	36297	2.364	ug/l	90
87) 1,3-Dichlorobenzene	12.54	146	17409	2.516	ug/l	90
88) 1,4-Dichlorobenzene	12.63	146	15768	2.349	ug/l	93
89) n-Butylbenzene	12.90	91	38351	2.387	ug/l	98
90) Hexachloroethane	12.97	117	8302	2.262	ug/l	69
91) 1,2-Dichlorobenzene	13.00	146	16578	2.488	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.70	75	843	1.445	ug/l	69
93) 1,2,4-Trichlorobenzene	14.25	180	12129	2.358	ug/l	94
94) Hexachlorobutadiene	14.24	225	7210	2.061	ug/l	94
95) Naphthalene	14.51	128	34656	3.919	ug/l	99

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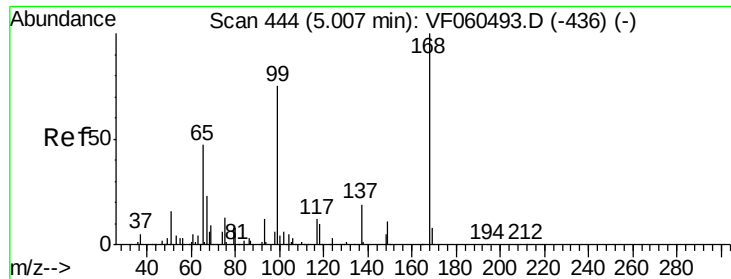
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	14.65	180	11874	2.477	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:168 Resp: 263632

Ion Ratio Lower Upper

168 100

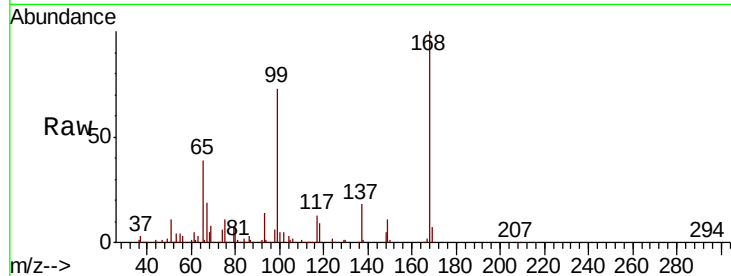
99 72.6 60.3 90.5

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

100000

80000

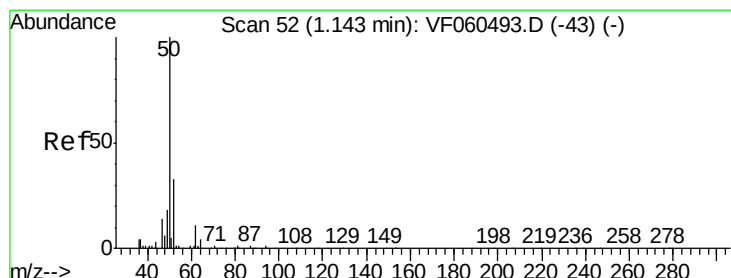
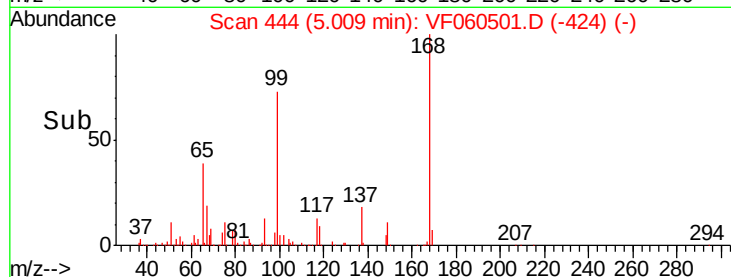
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 2.995 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060501.D

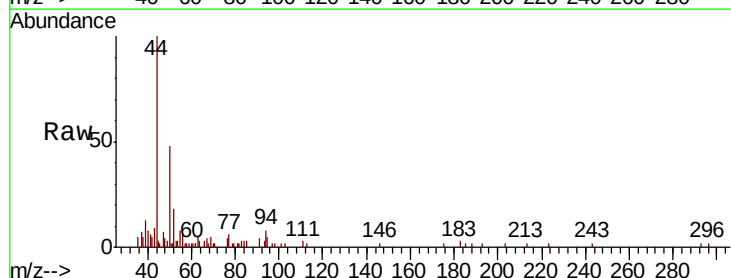
Acq: 9 Oct 2018 21:00

Tgt Ion: 50 Resp: 9600

Ion Ratio Lower Upper

50 100

52 37.5 25.0 37.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.14

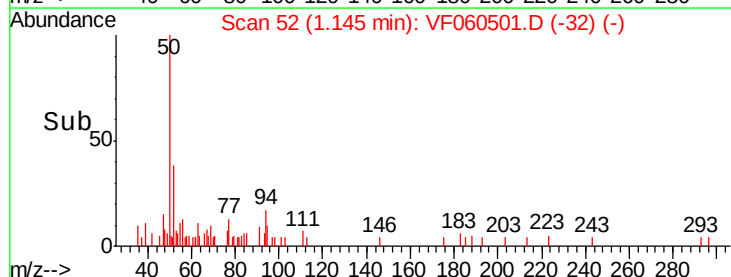
3000

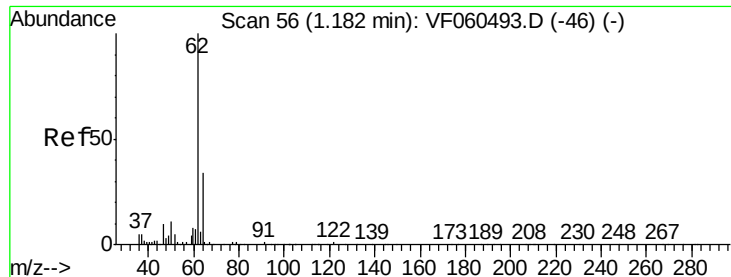
2000

1000

0

Time-->





#4

Vinyl Chloride

Concen: 2.256 ug/l

RT: 1.18 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 62 Resp: 7844

Ion Ratio Lower Upper

62 100

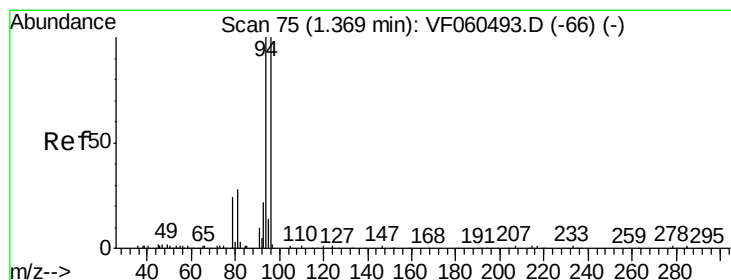
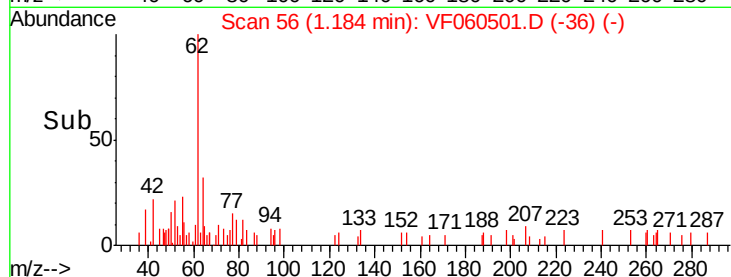
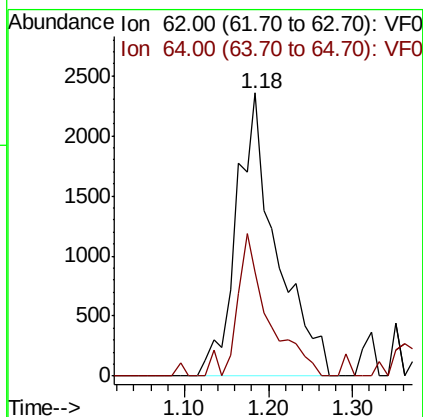
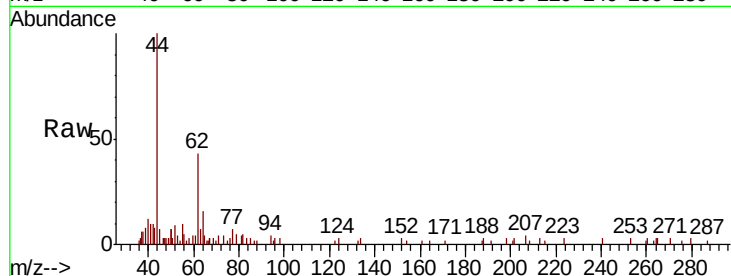
64 37.0 27.5 41.3

Manual Integrations

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#5

Bromomethane

Concen: 3.665 ug/l m

RT: 1.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VF060501.D

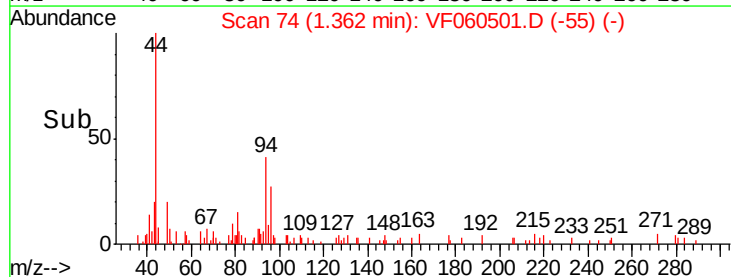
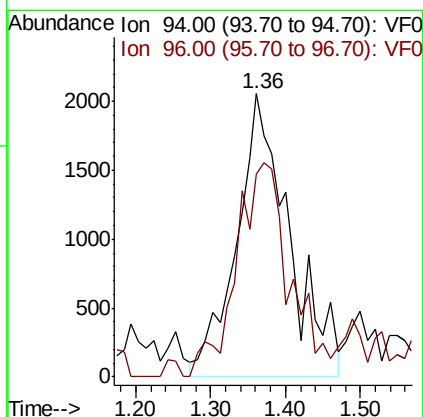
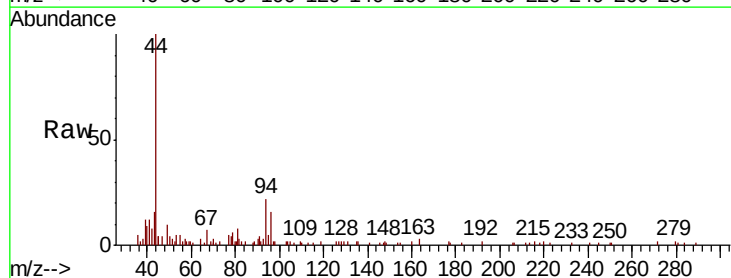
Acq: 9 Oct 2018 21:00

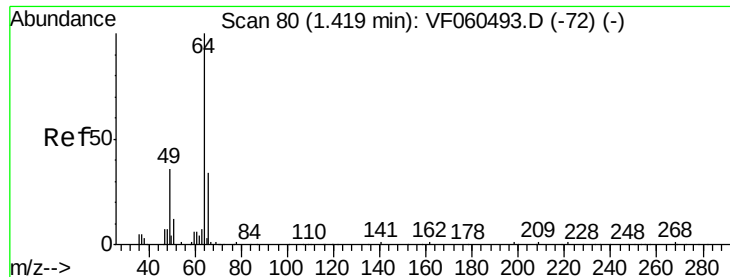
Tgt Ion: 94 Resp: 10020

Ion Ratio Lower Upper

94 100

96 71.7 80.6 120.8#





#6

Chloroethane

Concen: 2.253 ug/l

RT: 1.42 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

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ClientSampleId :

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Tot Ion: 64 Resp: 4140

Ion Ratio Lower Upper

64 100

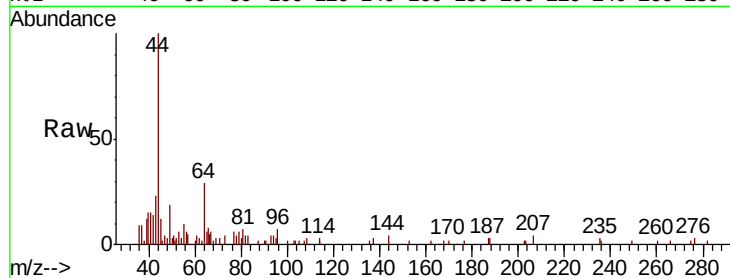
66 43.4 27.0 40.6#

Manual Integrations

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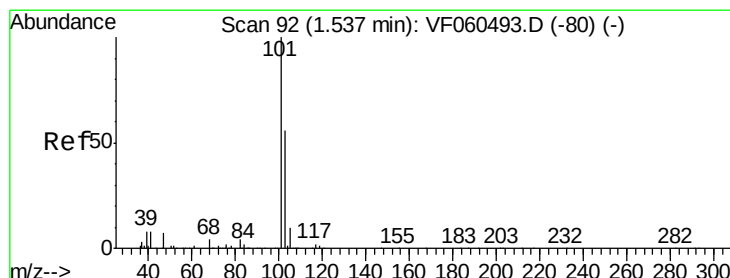
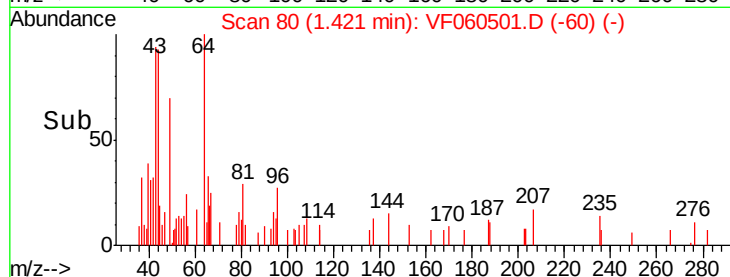
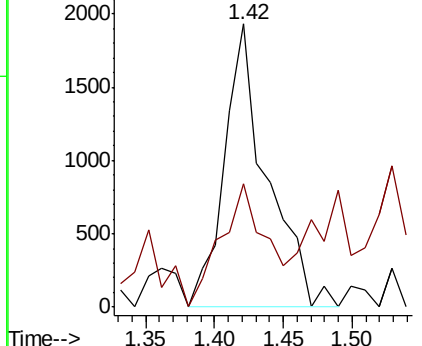
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Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#7

Trichlorofluoromethane

Concen: 2.328 ug/l m

RT: 1.55 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF060501.D

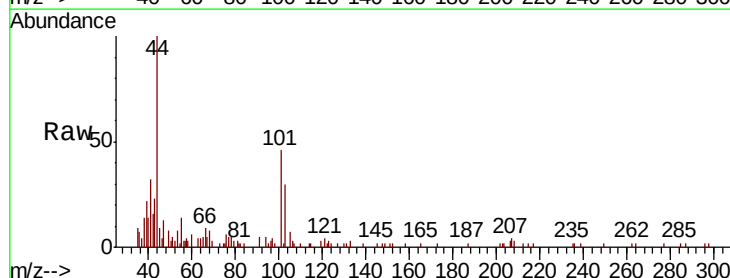
Acq: 9 Oct 2018 21:00

Tgt Ion: 101 Resp: 18140

Ion Ratio Lower Upper

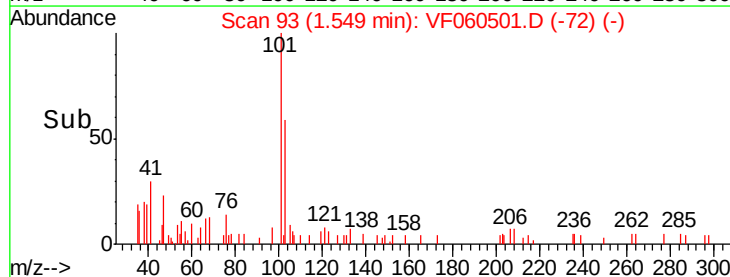
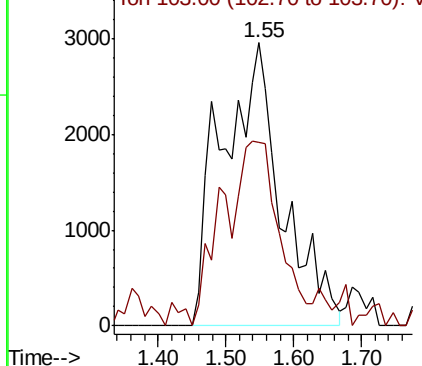
101 100

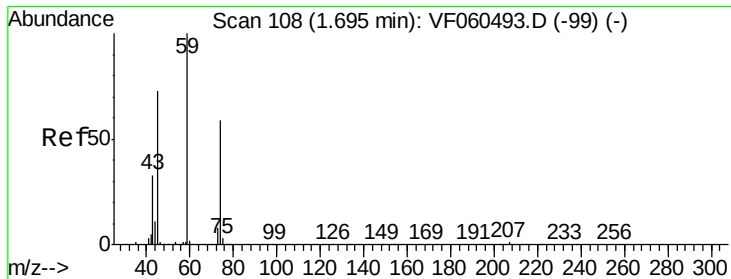
103 64.9 44.6 66.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#8

Diethyl Ether

Concen: 2.410 ug/l m

RT: 1.69 min Scan# 107

Delta R.T. -0.01 min

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Tot Ion: 74 Resp: 2687

Ion Ratio Lower Upper

74 100

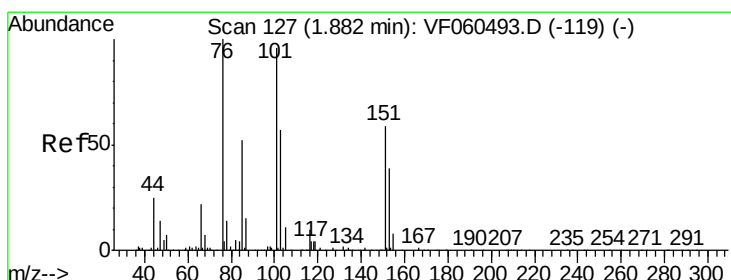
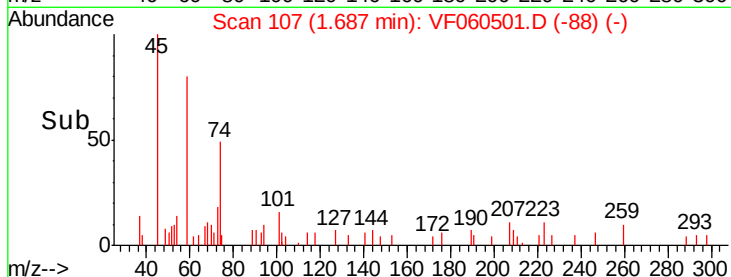
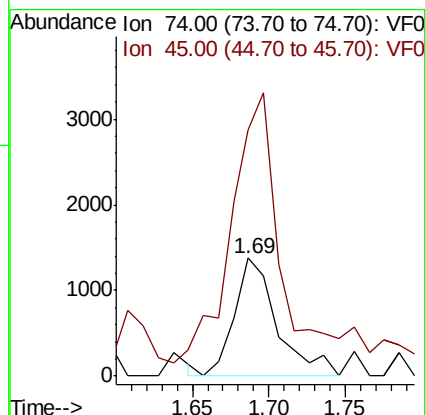
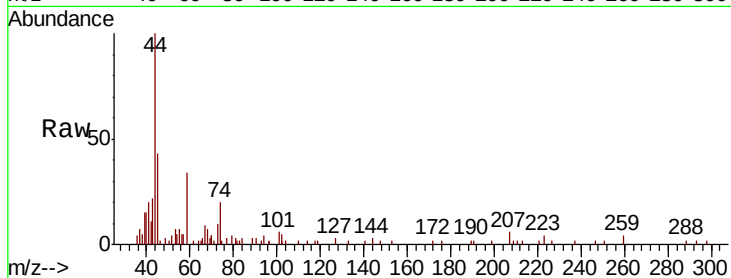
45 209.7 62.7 188.1#

Manual Integrations

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#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.553 ug/l

RT: 1.87 min Scan# 126

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

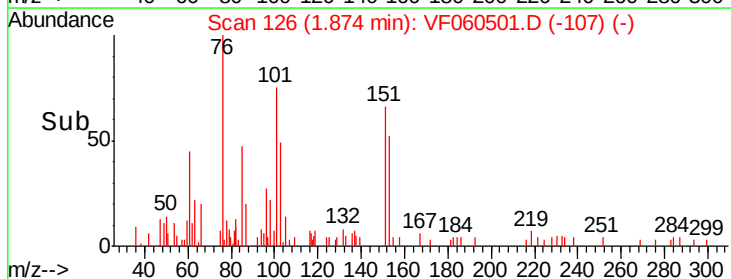
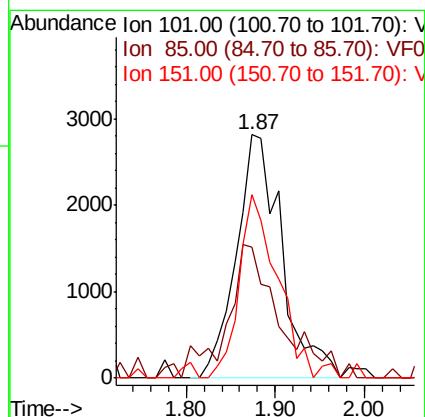
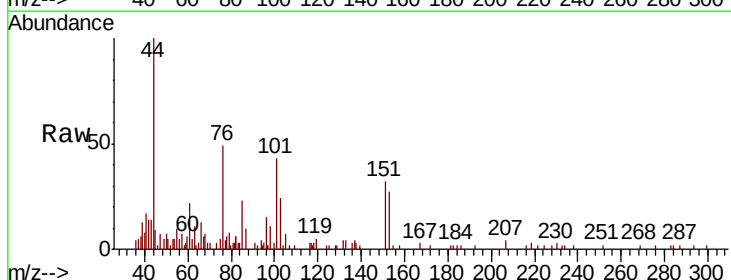
Tgt Ion: 101 Resp: 9952

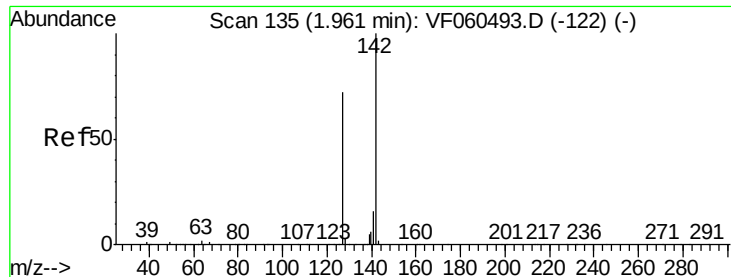
Ion Ratio Lower Upper

101 100

85 53.9 41.8 62.6

151 75.6 47.4 71.0#





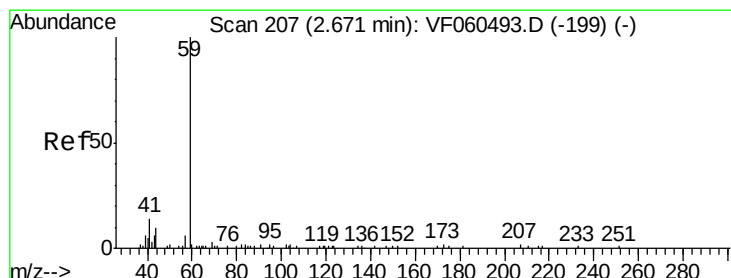
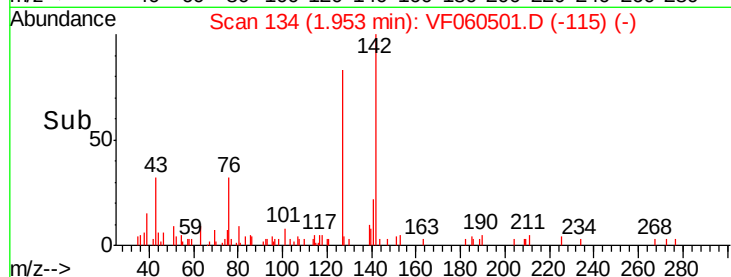
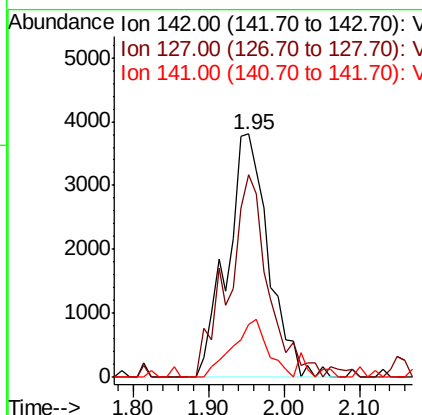
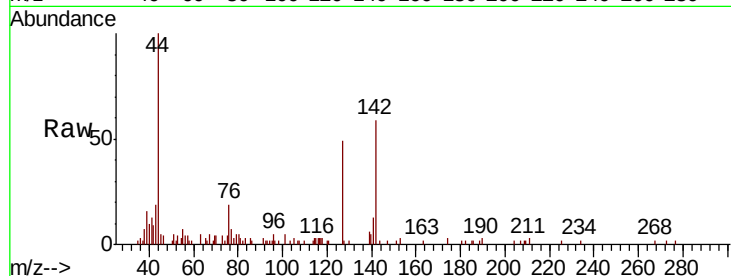
#10
Methvl Iodide
Concen: 2.323 ug/l
RT: 1.95 min Scan# 134
Delta R.T. -0.01 min
Lab File: VF060501.D
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Tot Ion	Ratio	Lower	Upper
142	100		
127	87.3	57.9	86.9#
141	21.9	12.7	19.1#

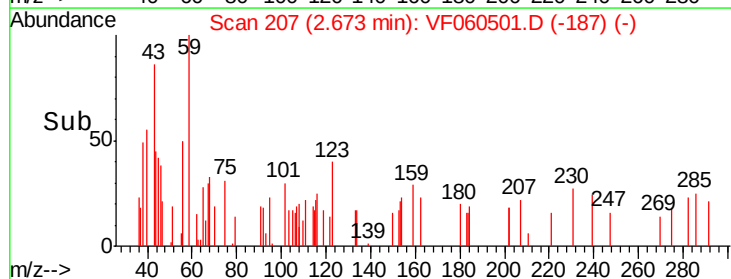
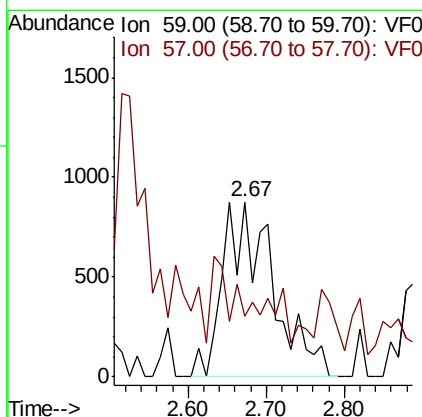
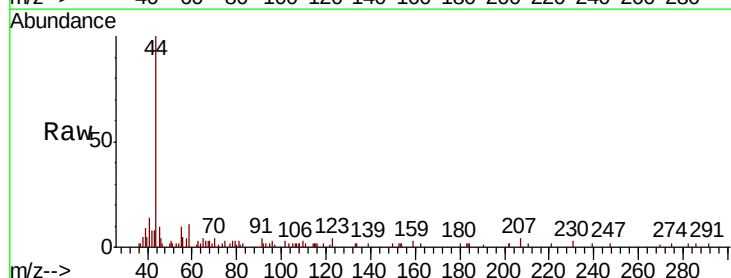
Manual Integrations
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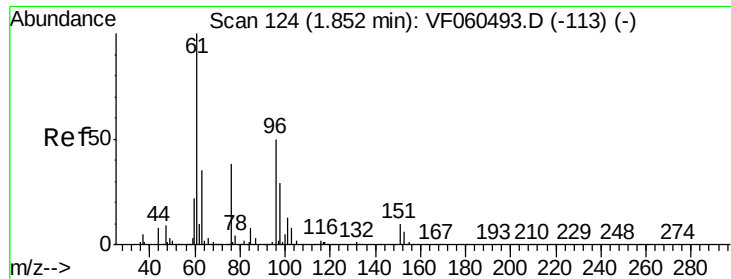
apatel
10/10/2018 12:34:20 PM



#11
Tert butyl alcohol
Concen: 18.335 ug/l m
RT: 2.67 min Scan# 207
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Lower	Upper
59	100		
57	34.5	10.2	15.2#





#12

1,1-Dichloroethene

Concen: 2.673 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

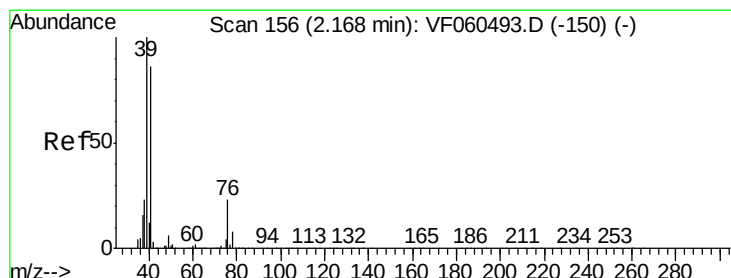
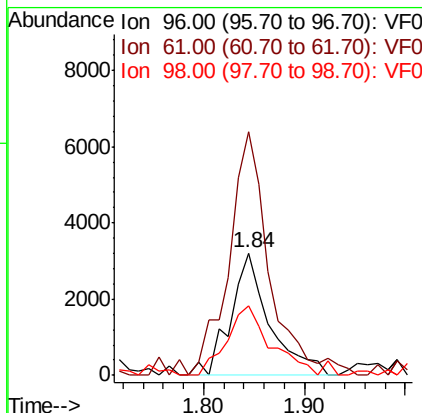
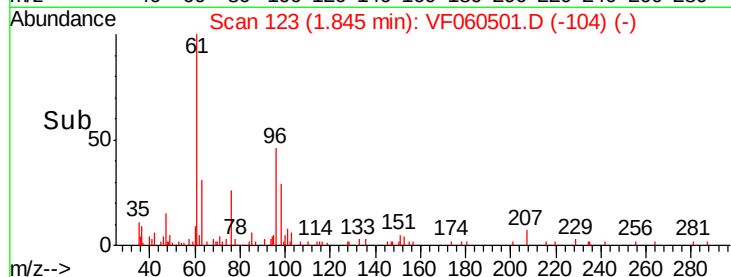
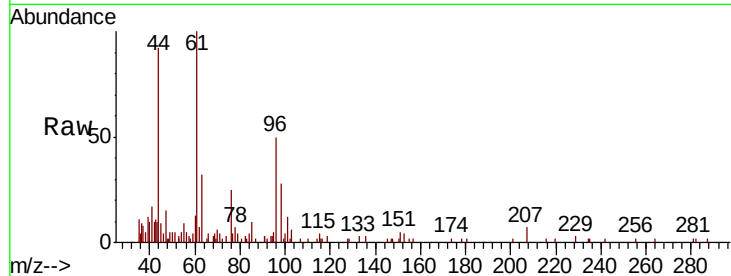
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	96	Resp:	8702
Ion Ratio	Lower	Upper	
96	100		
61	198.7	161.9	242.9
98	56.4	47.4	71.2

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#14

Allyl chloride

Concen: 2.083 ug/l

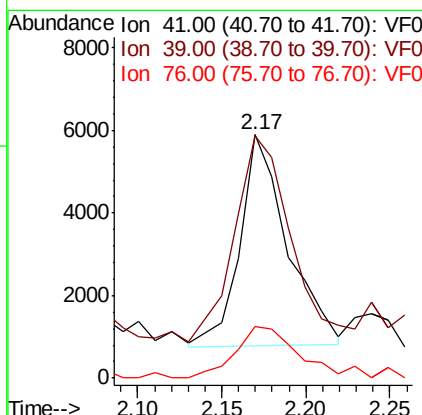
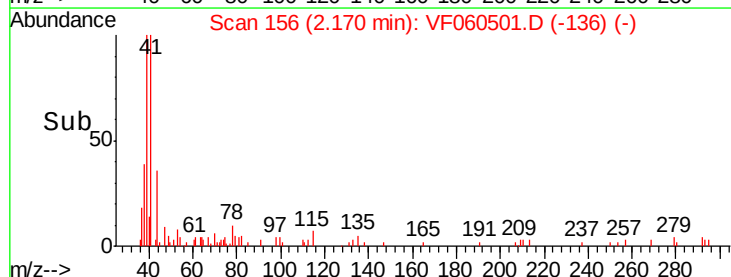
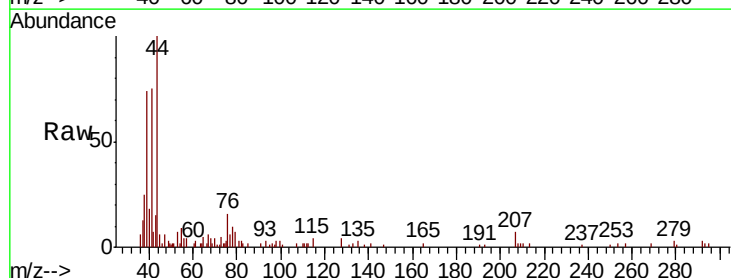
RT: 2.17 min Scan# 156

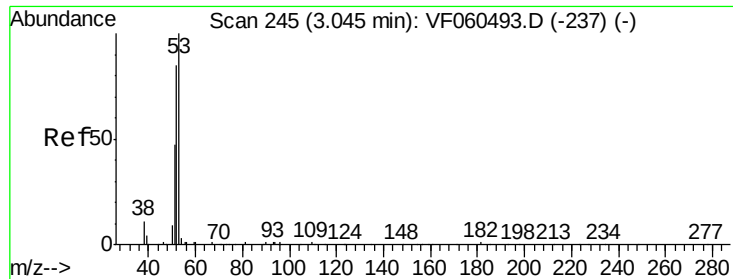
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	41	Resp:	9995
Ion Ratio	Lower	Upper	
41	100		
39	99.5	93.1	139.7
76	21.2	21.6	32.4#





#15

Acrylonitrile

Concen: 12.196 ug/l

RT: 3.07 min Scan# 247

Delta R.T. 0.02 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

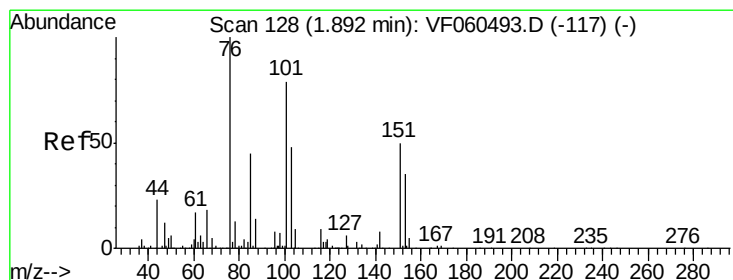
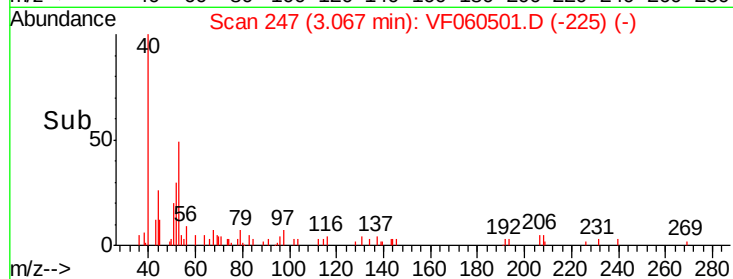
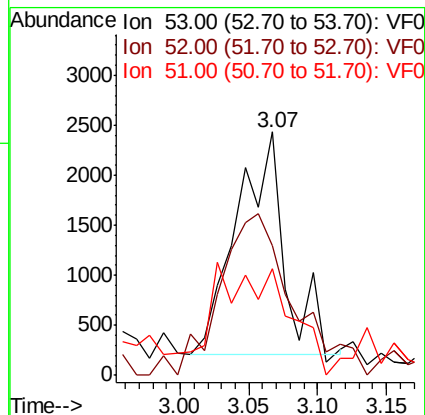
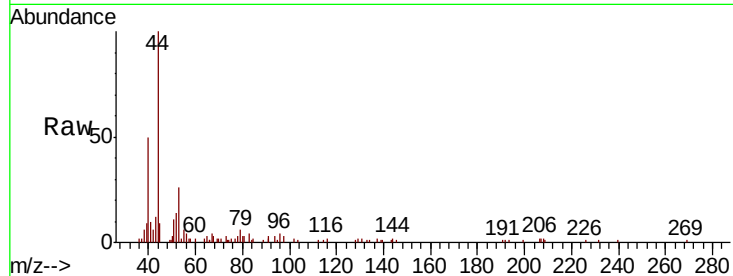
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	53	Resp:	5379
Ion Ratio	Lower	Upper	
53	100		
52	53.3	67.5	101.3#
51	43.8	38.2	57.4

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#17

Carbon Disulfide

Concen: 2.126 ug/l

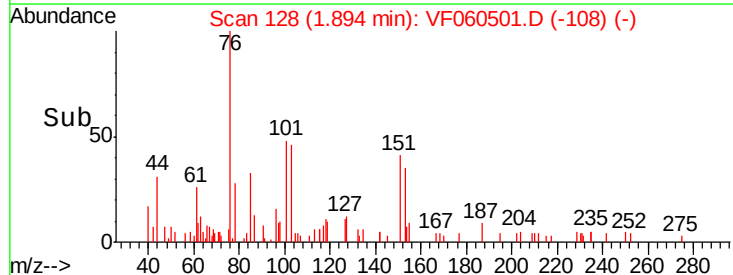
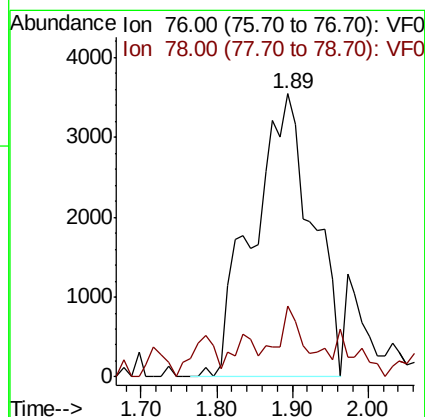
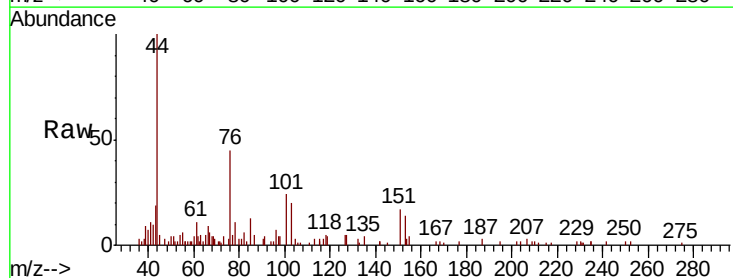
RT: 1.89 min Scan# 128

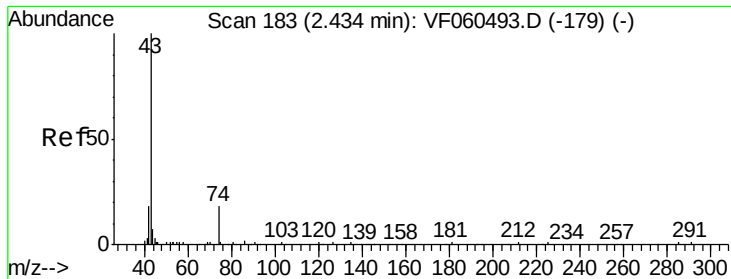
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	76	Resp:	19249
Ion Ratio	Lower	Upper	
76	100		
78	25.2	10.5	15.7#





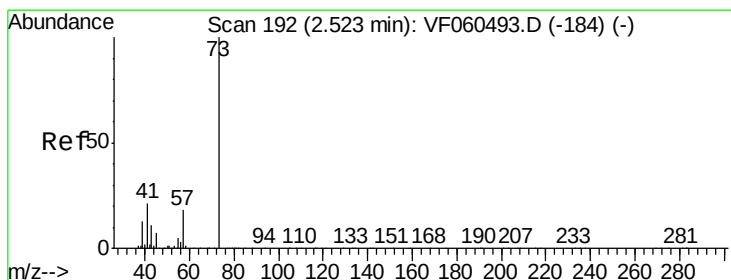
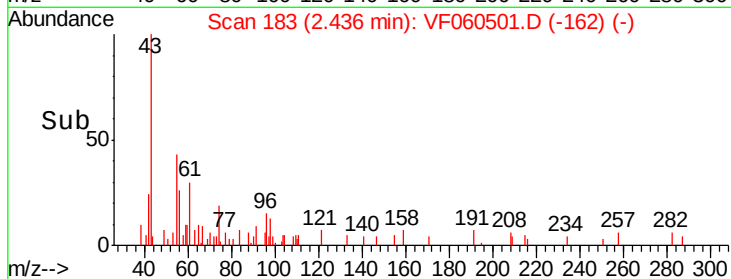
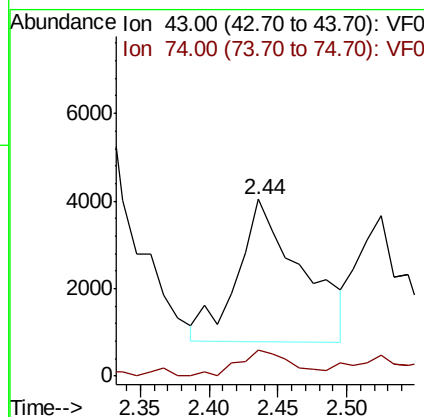
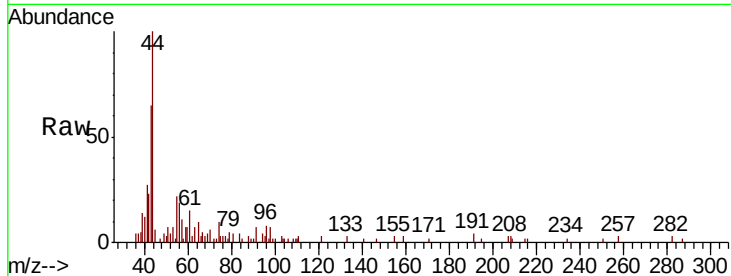
#18
Methyl Acetate
Concen: 5.011 ug/l
RT: 2.44 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	43	Resp	10522
Ion Ratio	100	Lower	Upper
74	14.9	12.9	19.3

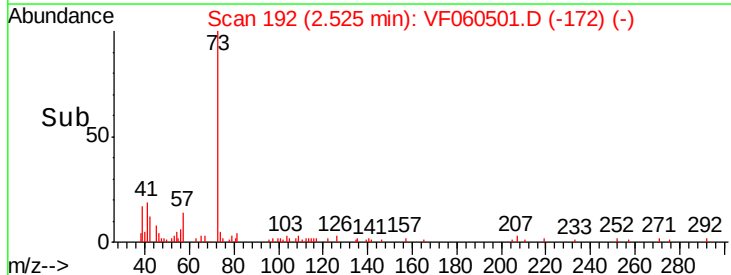
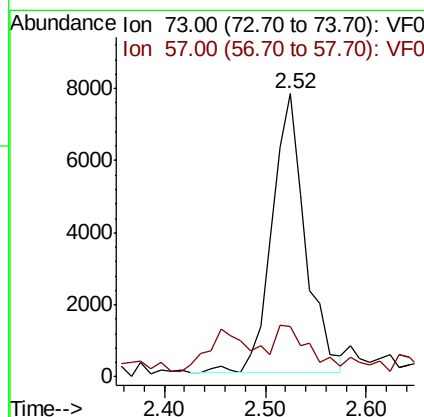
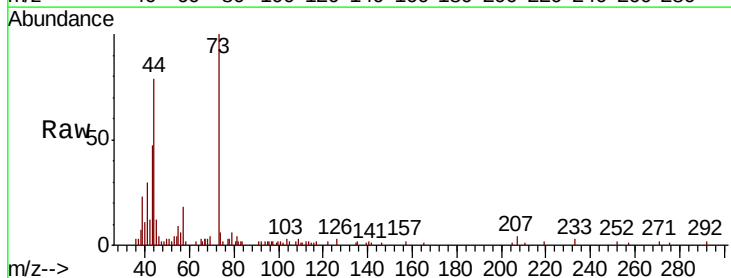
Manual Integrations
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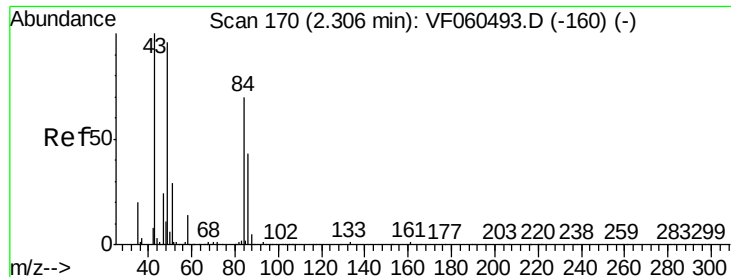
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#19
Methyl tert-butyl Ether
Concen: 2.401 ug/l
RT: 2.52 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion	73	Resp	17599
Ion Ratio	100	Lower	Upper
57	17.9	15.0	22.6





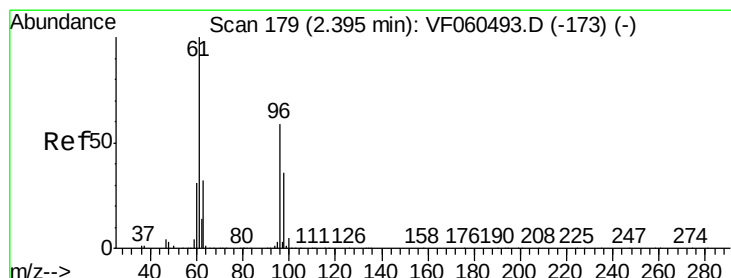
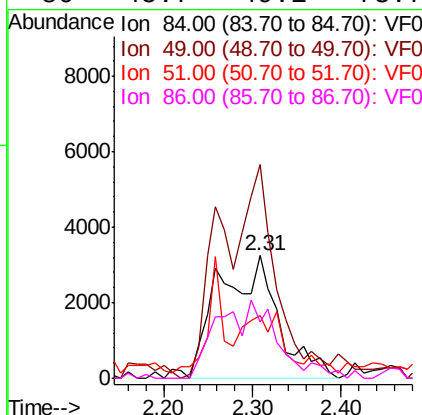
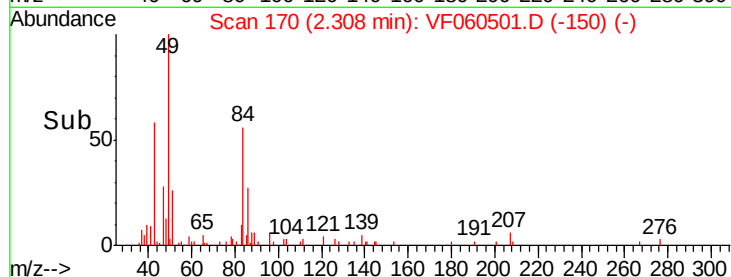
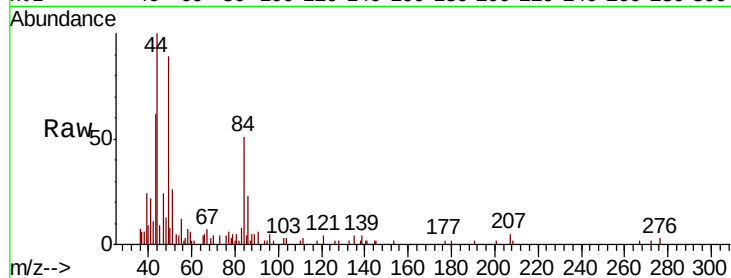
#20
Methvlene Chloride
Concen: 4.983 ug/l m
RT: 2.31 min Scan# 170
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Lower	Upper
84	100		
49	174.4	111.5	167.3#
51	51.5	34.6	52.0
86	45.7	49.1	73.7#

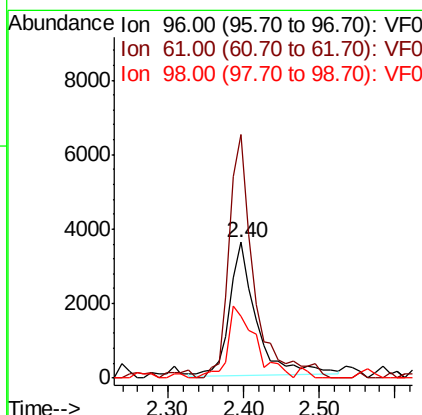
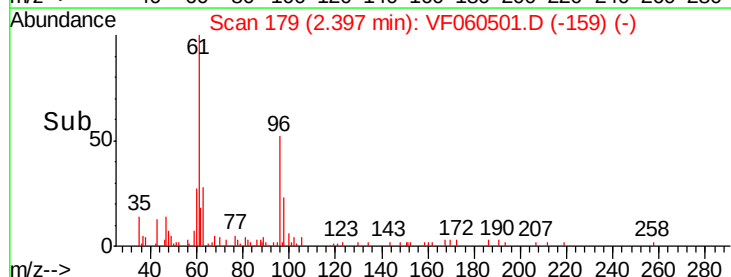
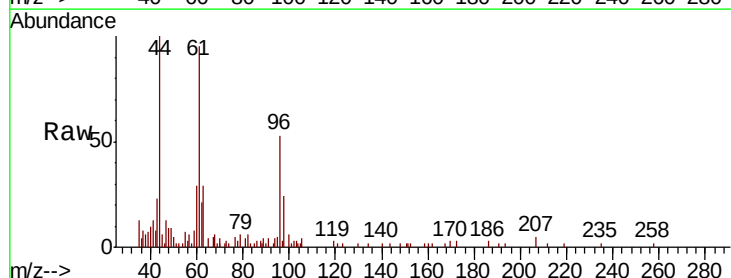
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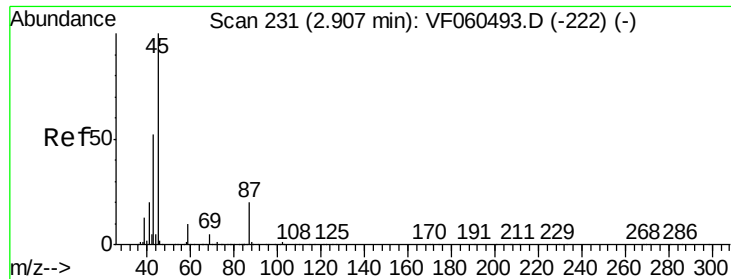
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#21
trans-1,2-Dichloroethene
Concen: 2.847 ug/l
RT: 2.40 min Scan# 179
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	179.3	136.2	204.4
98	45.8	49.7	74.5#





#22

Diisopropyl ether

Concen: 2.470 ug/l

RT: 2.91 min Scan# 231

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

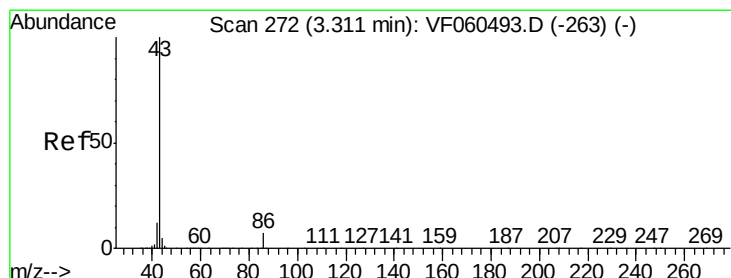
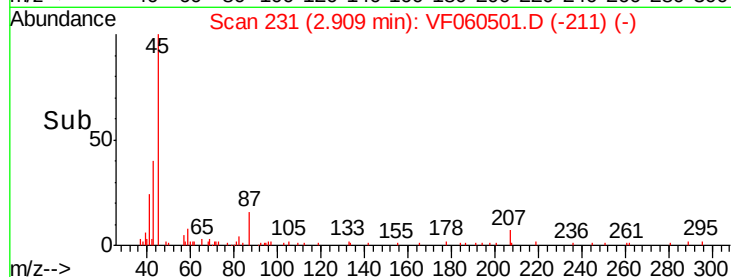
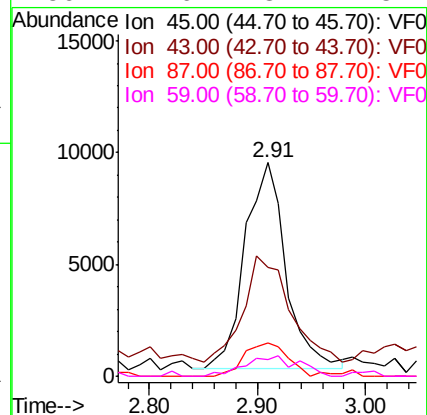
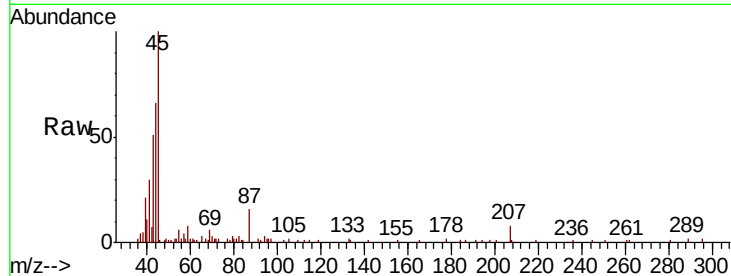
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	45	Resp	24363
Ion Ratio	Lower	Upper	
45	100		
43	50.8	41.8	62.8
87	15.8	15.7	23.5
59	7.6	8.7	13.1#

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#23

Vinyl Acetate

Concen: 10.971 ug/l

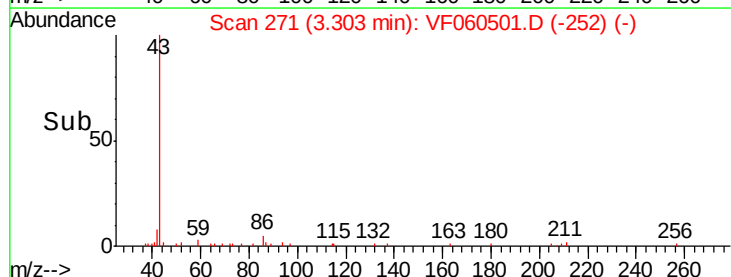
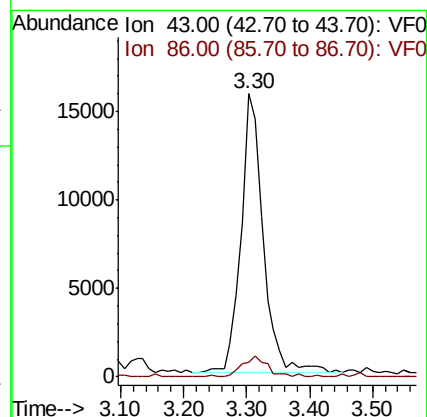
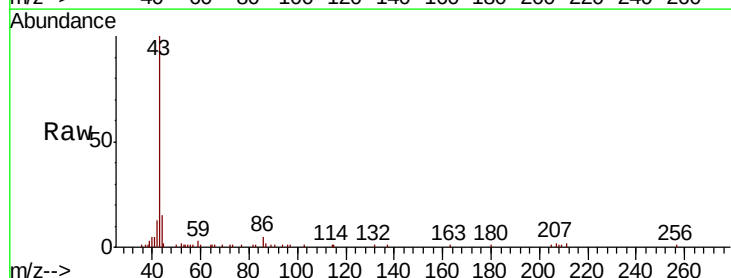
RT: 3.30 min Scan# 271

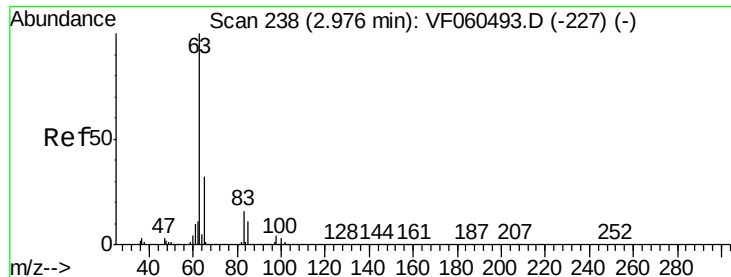
Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion	43	Resp	37889
Ion Ratio	Lower	Upper	
43	100		
86	5.1	5.8	8.8#





#24

1,1-Dichloroethane

Concen: 2.204 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

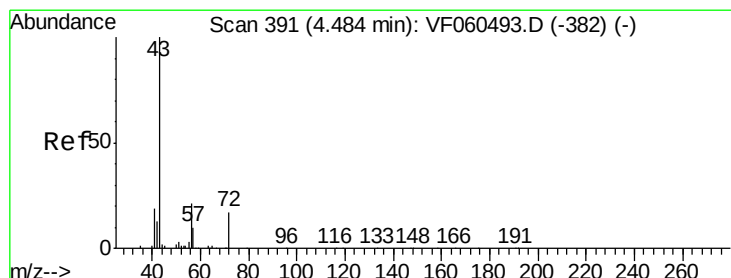
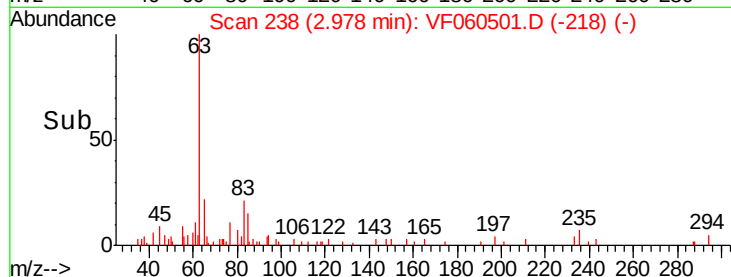
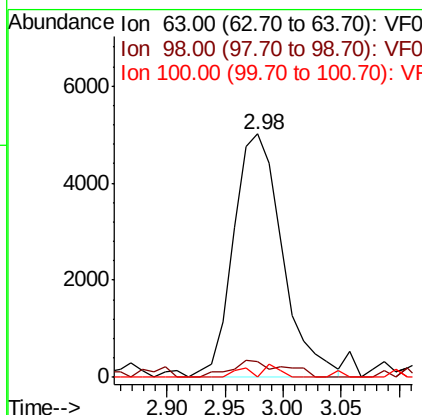
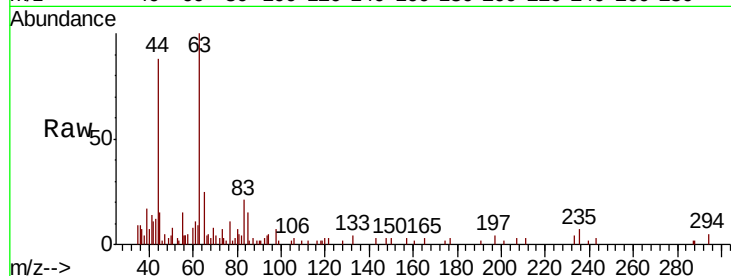
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	63	Resp:	14593
Ion Ratio	Lower	Upper	
63	100		
98	6.5	2.2	6.6
100	0.0	1.5	4.4#

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#25

2-Butanone

Concen: 16.845 ug/l

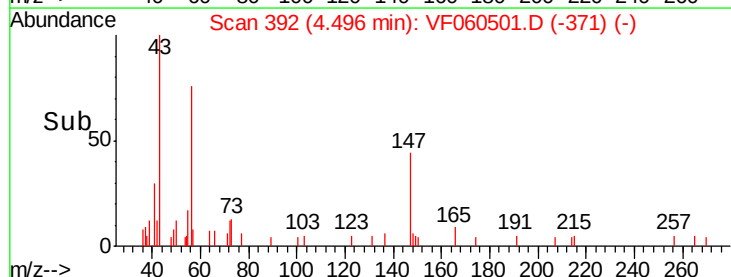
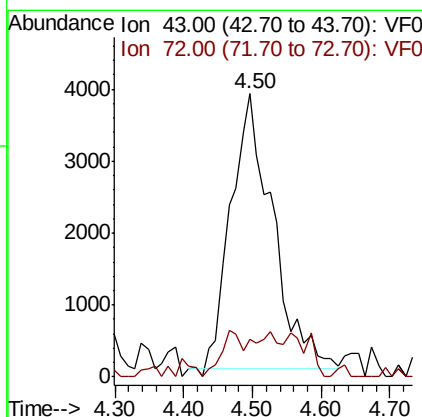
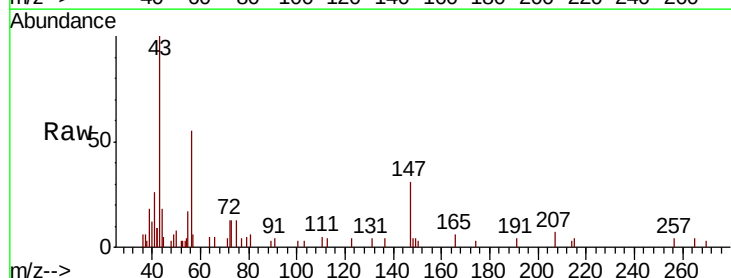
RT: 4.50 min Scan# 392

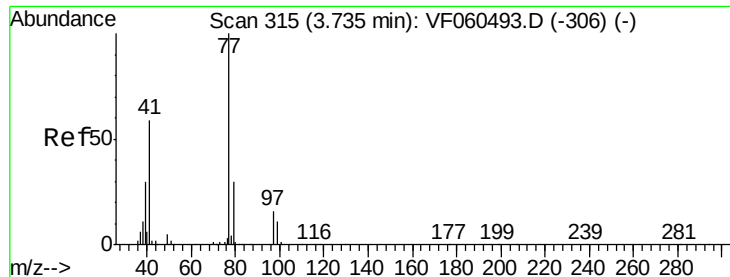
Delta R.T. 0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	43	Resp:	16064
Ion Ratio	Lower	Upper	
43	100		
72	13.4	15.0	22.6#





#26

2,2-Dichloropropane

Concen: 2.501 ug/l

RT: 3.74 min Scan# 315

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 77 Resp: 8634

Ion Ratio Lower Upper

77 100

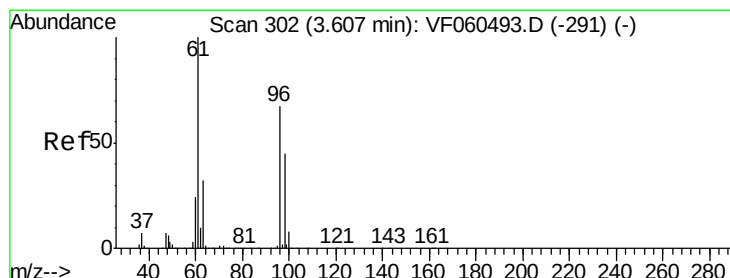
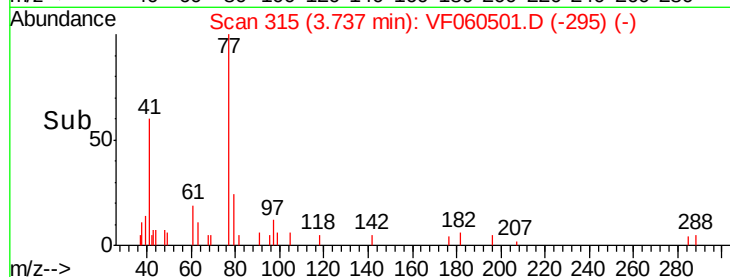
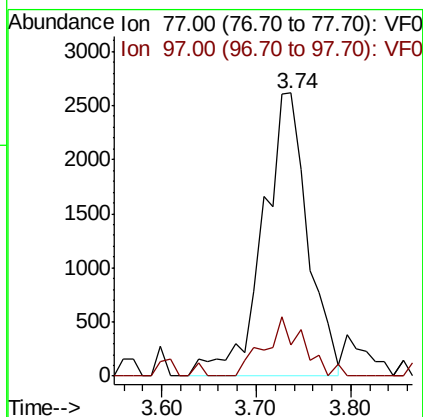
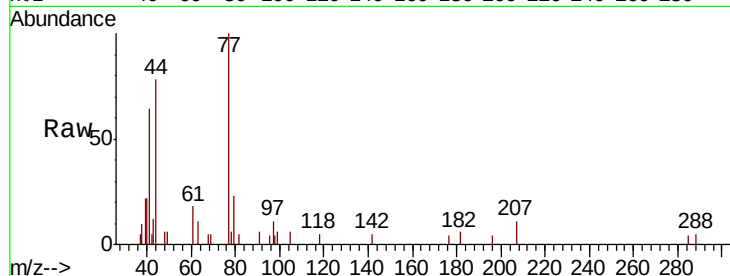
97 11.1 8.6 25.7

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#27

cis-1,2-Dichloroethene

Concen: 2.106 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

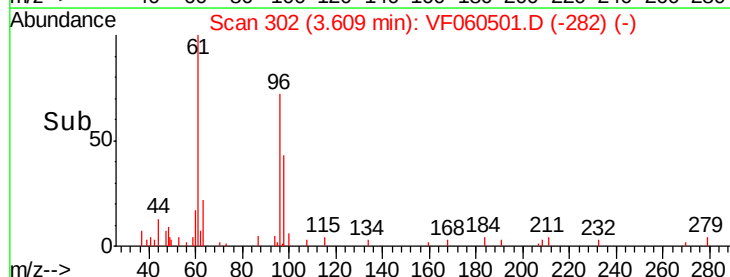
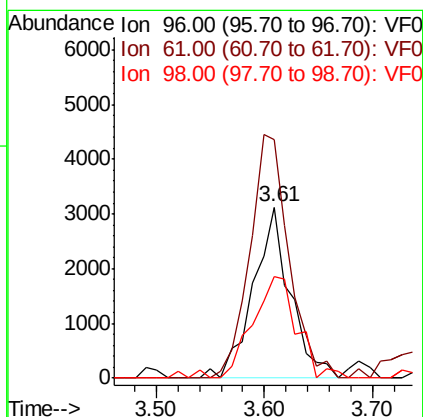
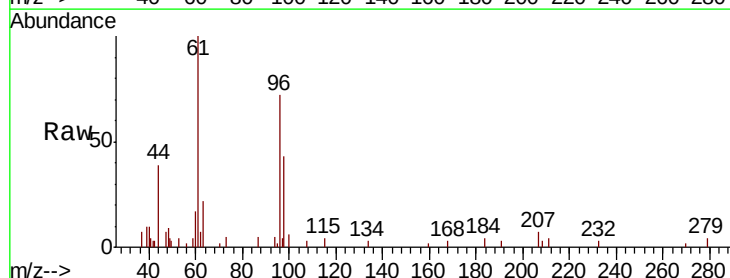
Tgt Ion: 96 Resp: 7471

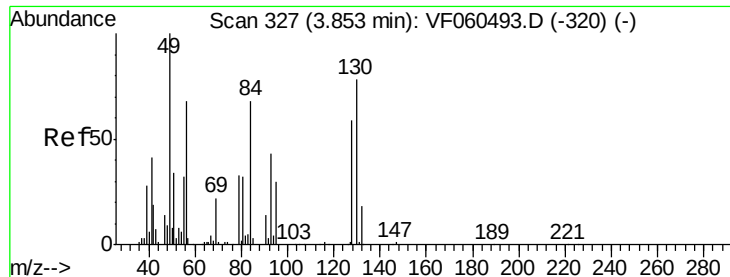
Ion Ratio Lower Upper

96 100

61 139.6 0.0 298.0

98 59.7 0.0 135.0





#28

Bromochloromethane

Concen: 2.911 ug/l

RT: 3.86 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

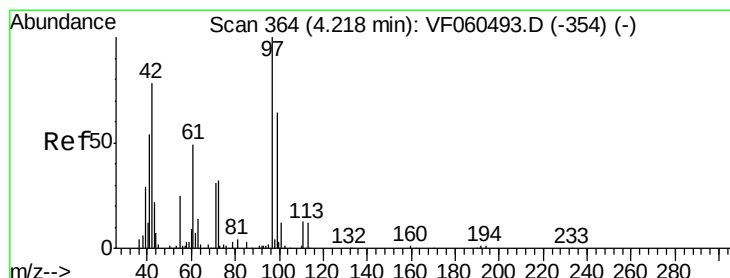
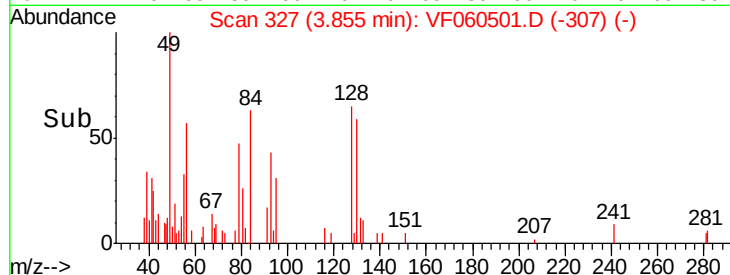
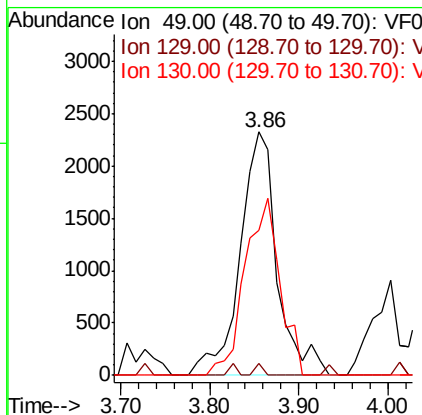
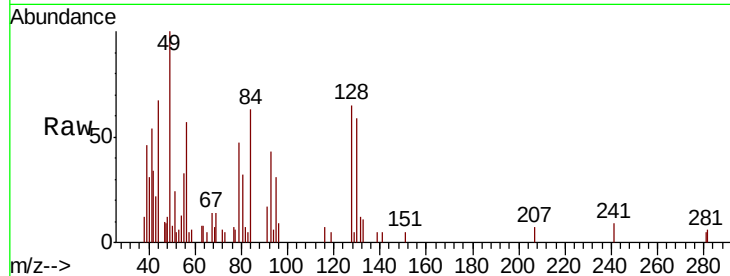
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	49	Resp:	6695
Ion Ratio	Lower	Upper	
49	100		
129	5.1	0.0	0.0#
130	59.4	62.2	93.2#

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#29

Tetrahydrofuran

Concen: 18.756 ug/l

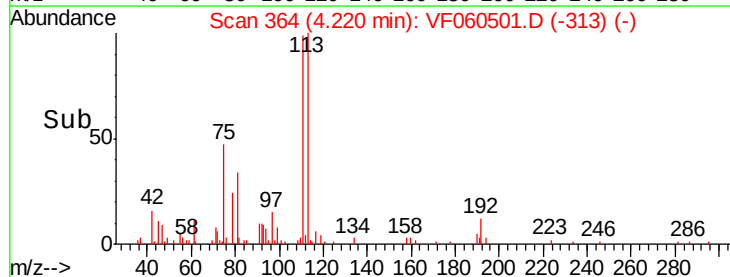
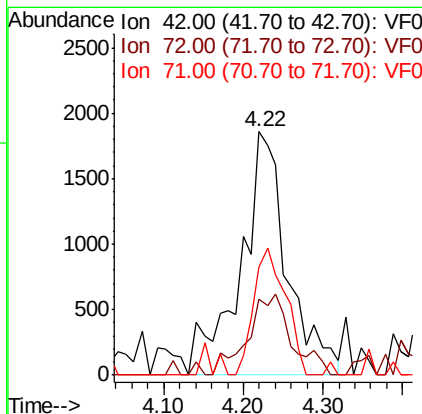
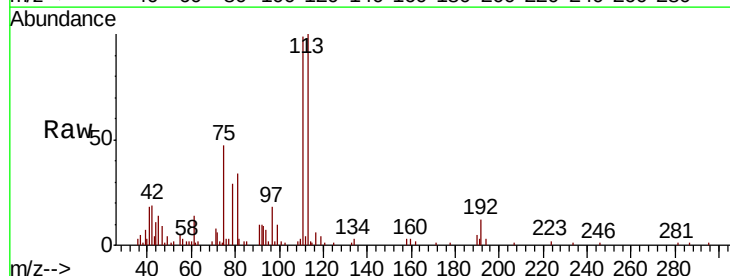
RT: 4.22 min Scan# 364

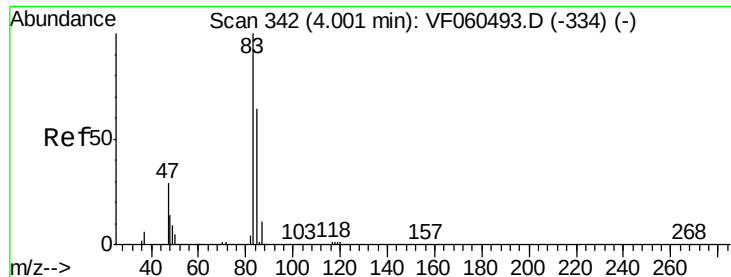
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	42	Resp:	7540
Ion Ratio	Lower	Upper	
42	100		
72	31.2	31.9	47.9#
71	35.6	33.4	50.0





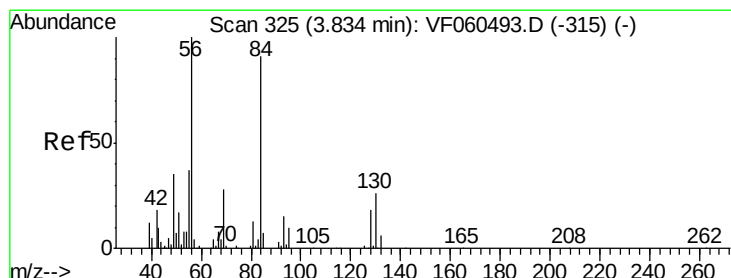
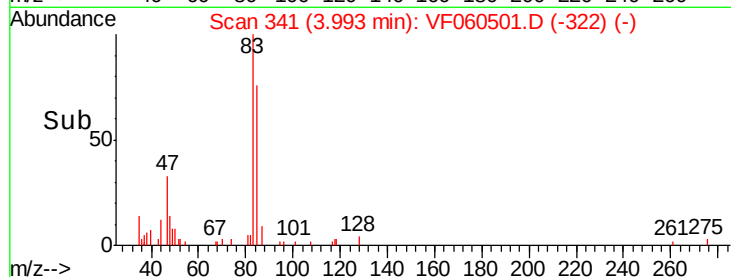
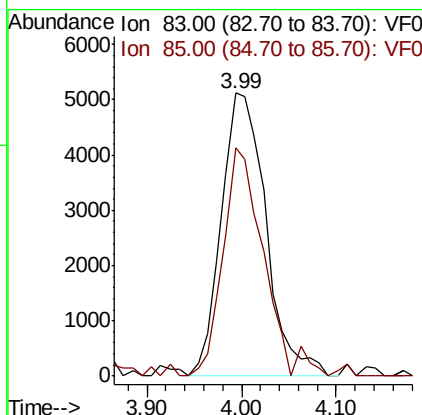
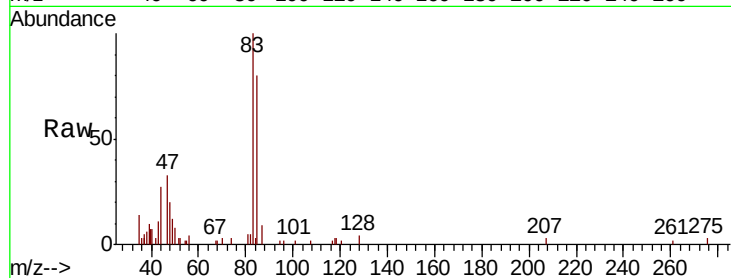
#30
Chloroform
Concen: 2.186 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	83	Resp	16750
Ion Ratio	Lower	Upper	
83	100		
85	80.4	51.7	77.5#

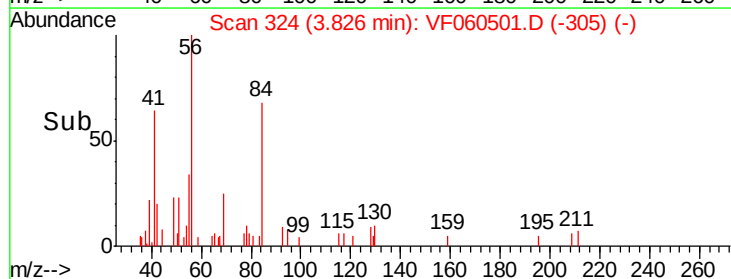
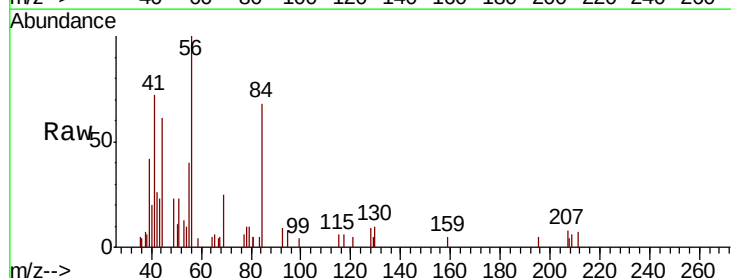
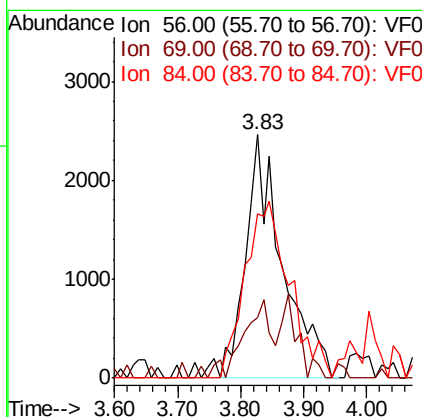
Manual Integrations
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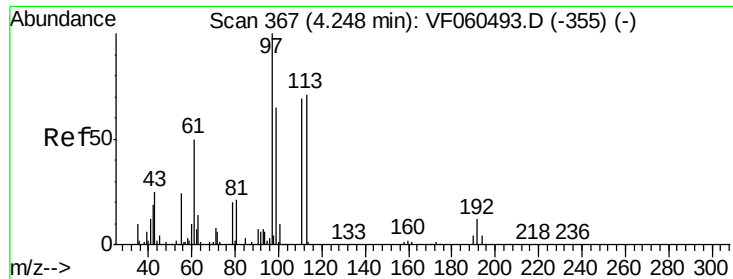
apatel
10/10/2018 12:34:20 PM



#31
Cyclohexane
Concen: 2.409 ug/l
RT: 3.83 min Scan# 324
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion	56	Resp	10205
Ion Ratio	Lower	Upper	
56	100		
69	24.8	22.7	34.1
84	67.5	73.1	109.7#





#32

1,1,1-Trichloroethane

Concen: 2.117 ug/l

RT: 4.24 min Scan# 366

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

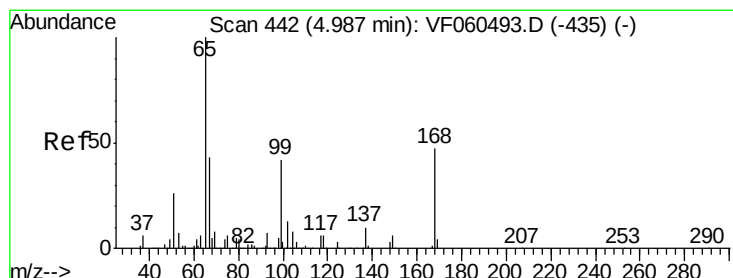
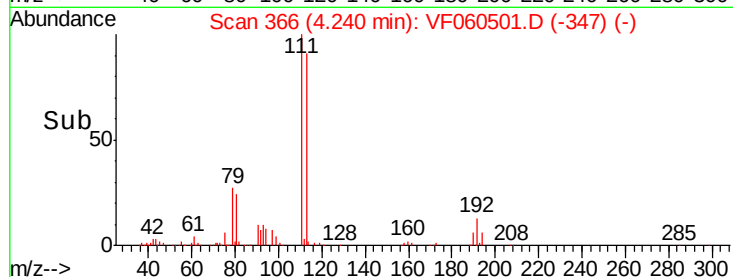
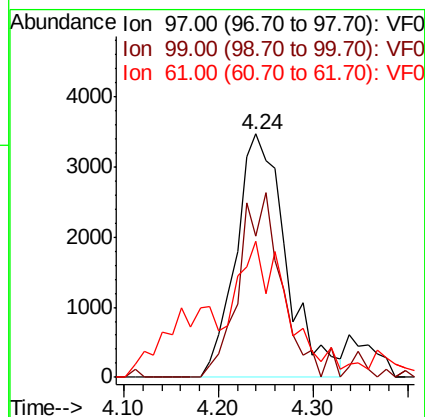
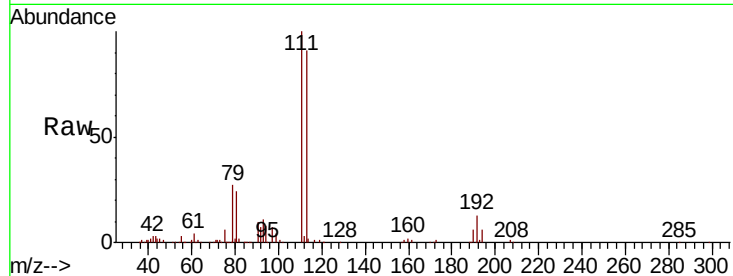
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	97	Resp:	12776
Ion Ratio	Lower	Upper	
97	100		
99	58.2	52.3	78.5
61	55.8	39.8	59.8

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apatel
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#33

1,2-Dichloroethane-d4

Concen: 53.966 ug/l

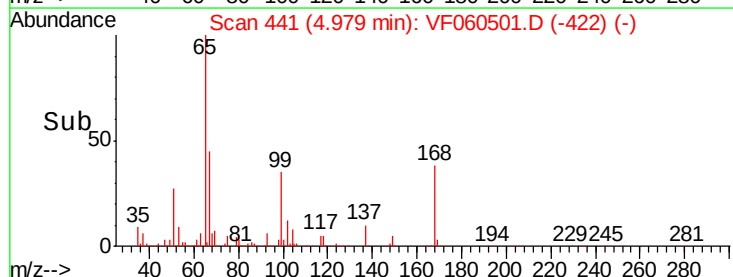
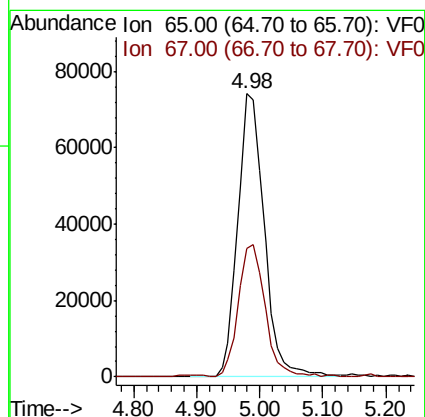
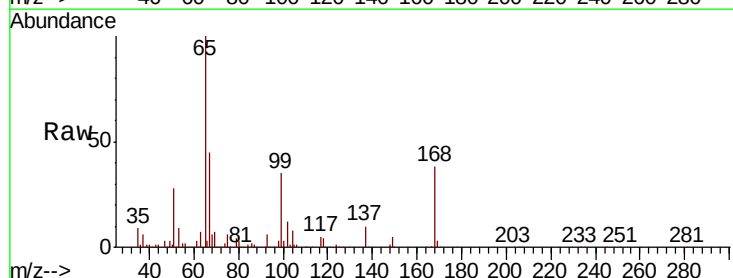
RT: 4.98 min Scan# 441

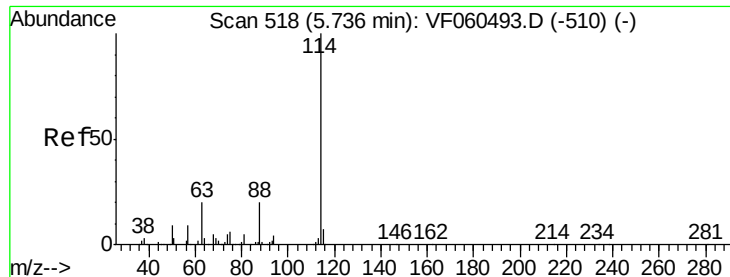
Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	65	Resp:	215762
Ion Ratio	Lower	Upper	
65	100		
67	45.5	0.0	94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 518

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

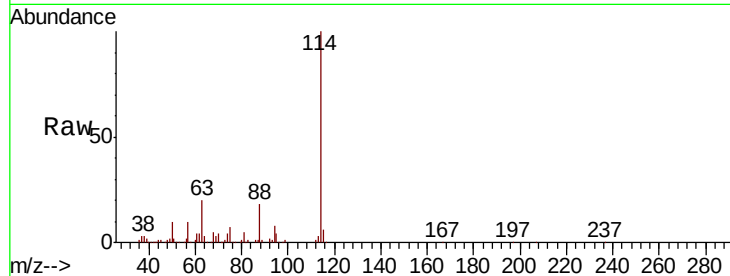
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

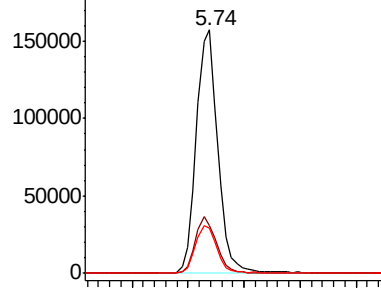
Tot Ion:	114	Resp:	423426
Ion Ratio		Lower	Upper
114	100		
63	19.7	0.0	40.2
88	18.3	0.0	40.2

Manual Integrations
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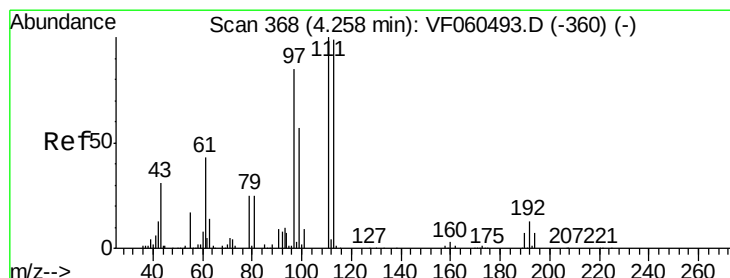
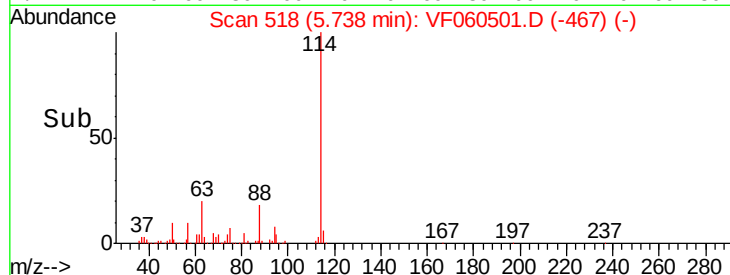
apatel
10/10/2018 12:34:20 PM



Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0



Time-->



#35

Dibromofluoromethane

Concen: 59.658 ug/l

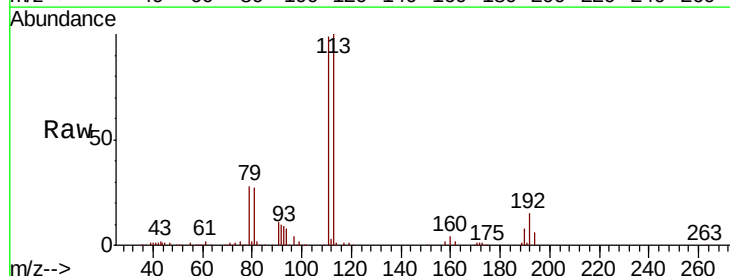
RT: 4.26 min Scan# 368

Delta R.T. 0.00 min

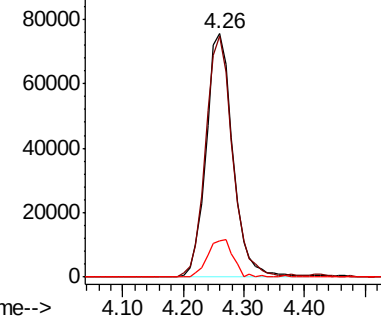
Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

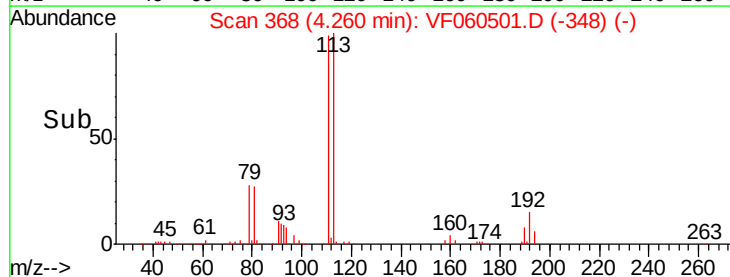
Tgt Ion:	113	Resp:	232524
Ion Ratio		Lower	Upper
113	100		
111	98.8	81.0	121.6
192	14.7	10.7	16.1

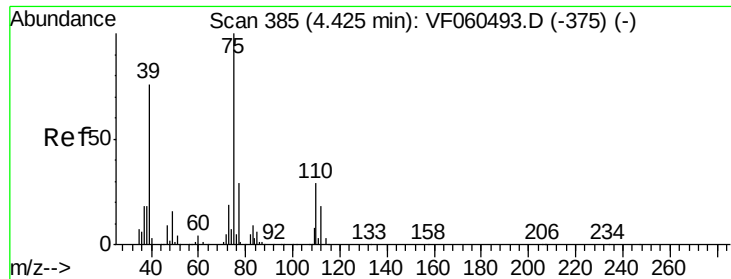


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



Time-->





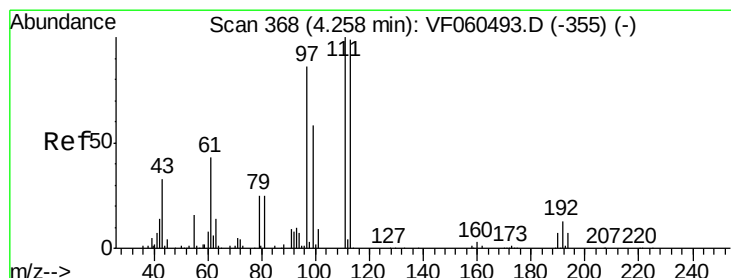
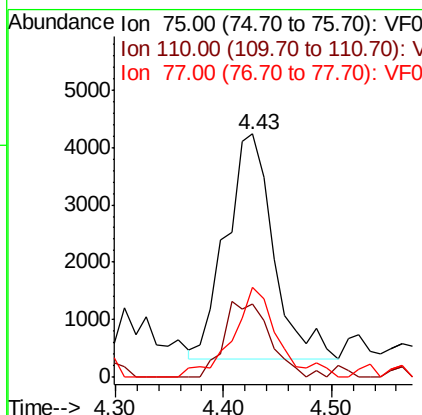
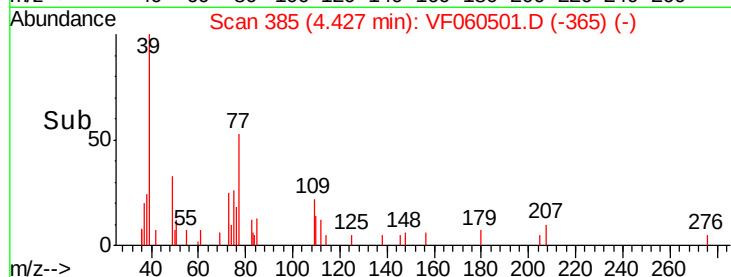
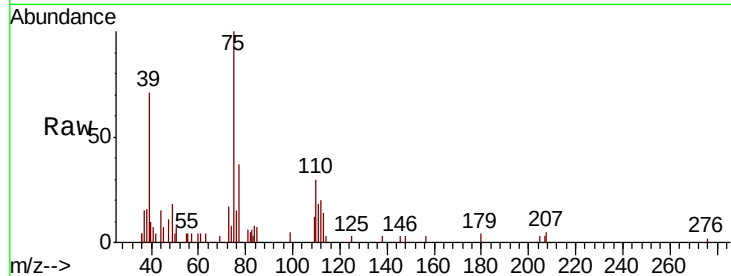
#36
 1,1-Dichloropropene
 Concen: 2.421 ug/l
 RT: 4.43 min Scan# 385
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Lower	Upper
75	100		
110	30.2	14.4	43.2
77	37.1	23.5	35.3#

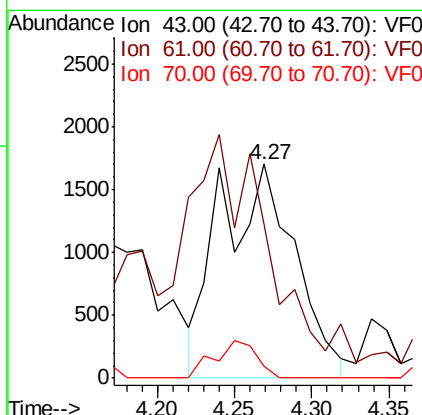
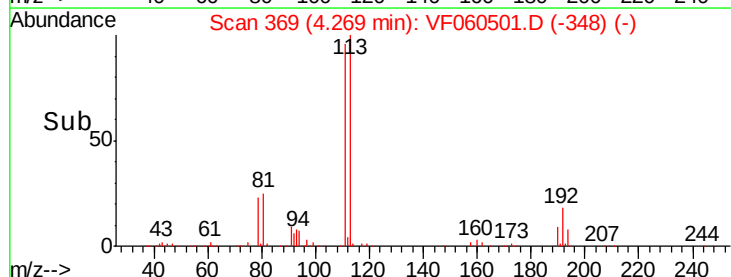
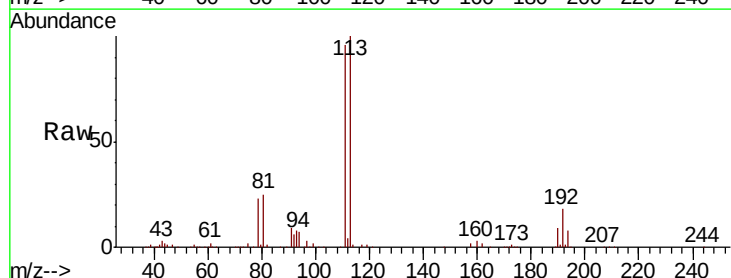
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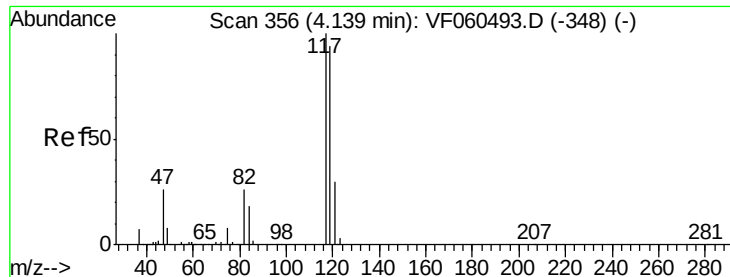
apatel
 10/10/2018 12:34:20 PM



#37
 Ethyl Acetate
 Concen: 3.305 ug/l m
 RT: 4.27 min Scan# 369
 Delta R.T. 0.01 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Lower	Upper
43	100		
61	72.0	106.5	159.7#
70	5.9	6.5	9.7#





#38

Carbon Tetrachloride

Concen: 2.370 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

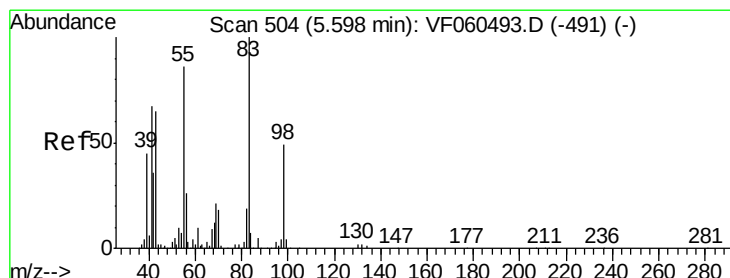
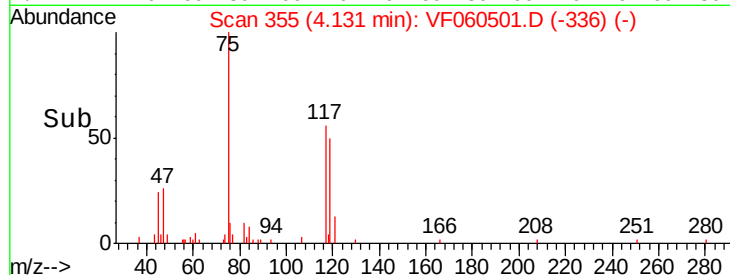
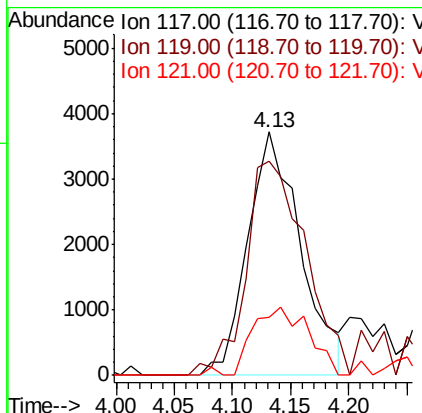
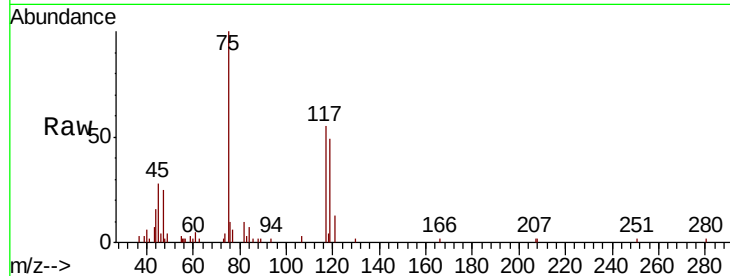
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	117	Resp:	11724
Ion Ratio	Lower	Upper	
117	100		
119	87.8	75.0	112.4
121	23.6	23.8	35.6#

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#39

Methylcyclohexane

Concen: 2.294 ug/l

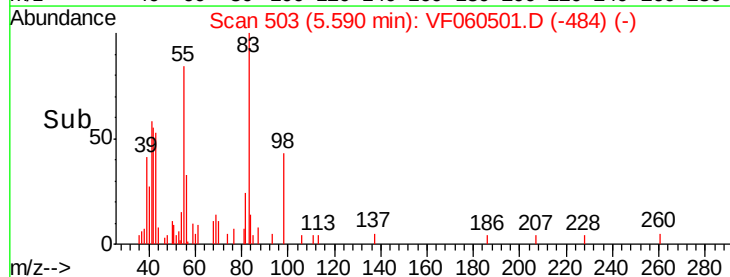
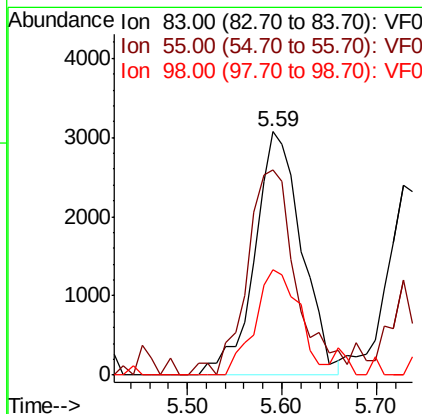
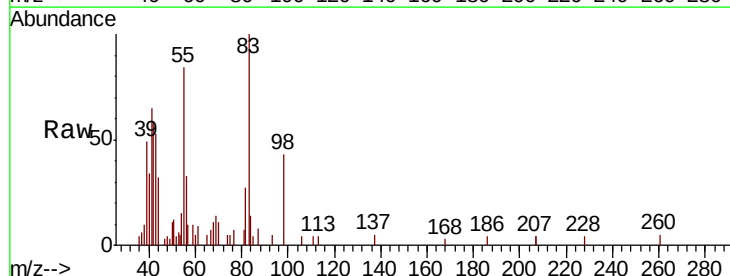
RT: 5.59 min Scan# 503

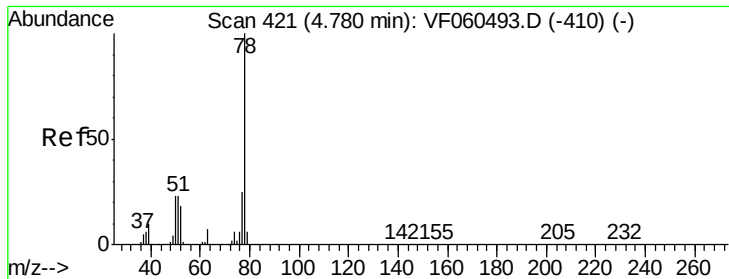
Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	83	Resp:	10638
Ion Ratio	Lower	Upper	
83	100		
55	84.2	69.2	103.8
98	43.3	39.6	59.4





#40

Benzene

Concen: 2.131 ug/l

RT: 4.77 min Scan# 420

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 78 Resp: 21546

Ion Ratio Lower Upper

78 100

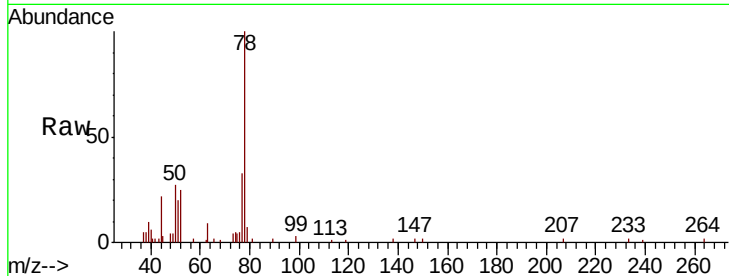
77 33.2 19.8 29.8#

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Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.77

8000

6000

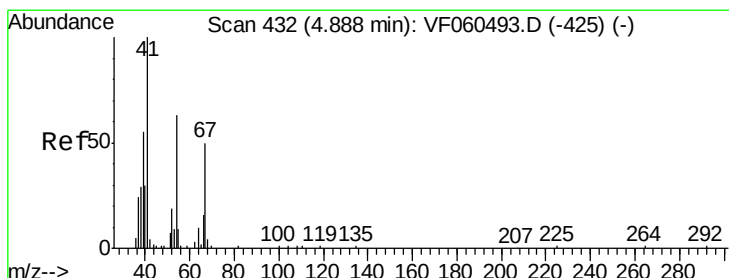
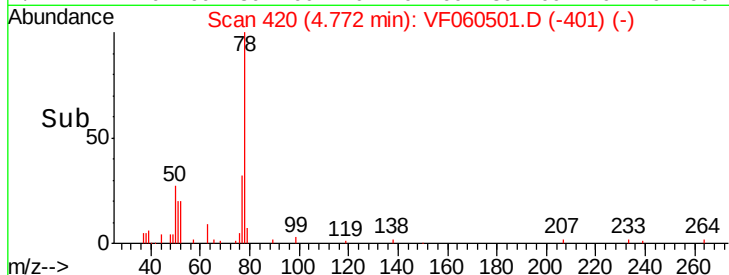
4000

2000

0

Time-->

4.70 4.80 4.90



#41

Methacrylonitrile

Concen: 3.185 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion: 41 Resp: 3148

Ion Ratio Lower Upper

41 100

39 59.3 53.1 79.7

67 41.2 39.4 59.0

52 36.7 35.0 52.6

Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

50000

40000

30000

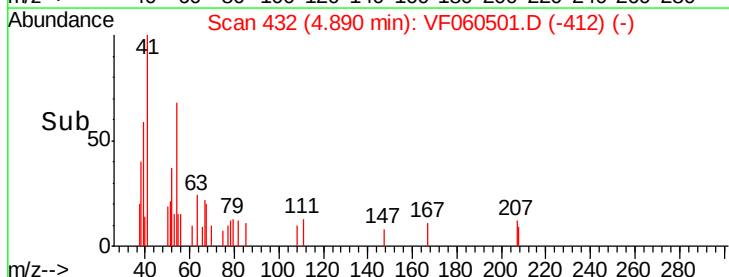
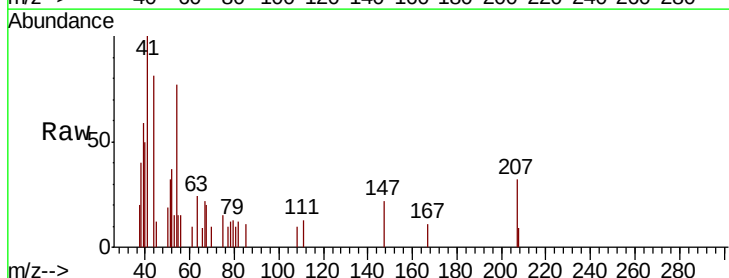
20000

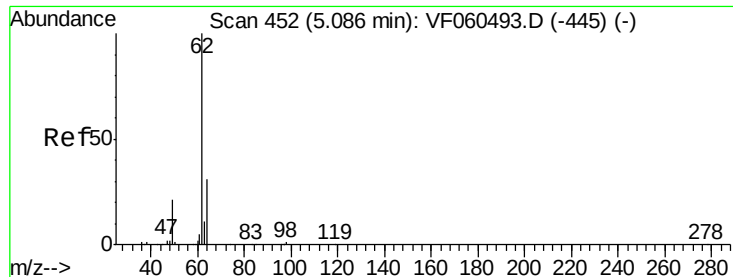
10000

0

Time-->

4.80 4.85 4.90 4.95





#42

1,2-Dichloroethane

Concen: 2.332 ug/l

RT: 5.09 min Scan# 452

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

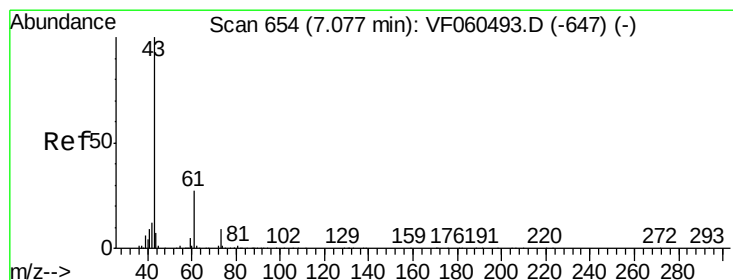
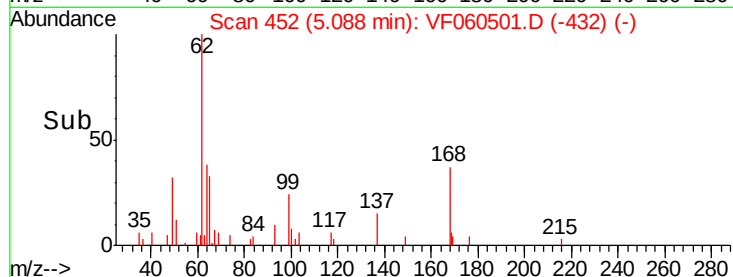
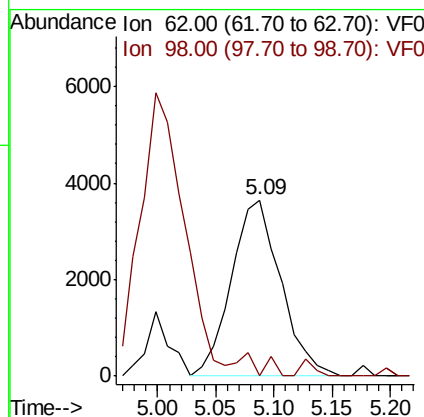
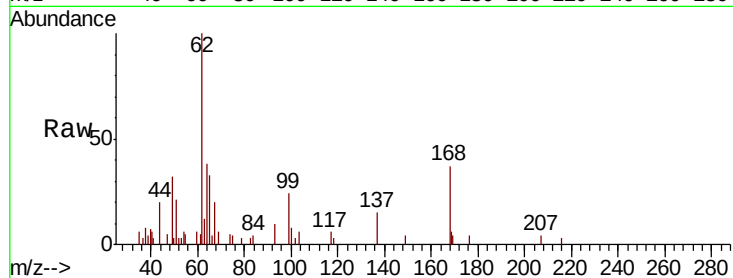
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	62	Resp:	10699
Ion Ratio	Lower	Upper	
62	100		
98	0.0	0.0	12.8

Manual Integrations
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#43

Isopropyl Acetate

Concen: 3.350 ug/l

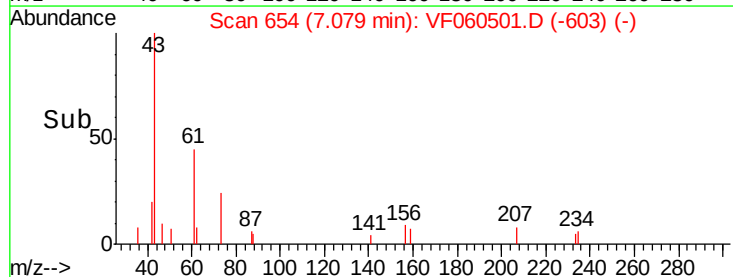
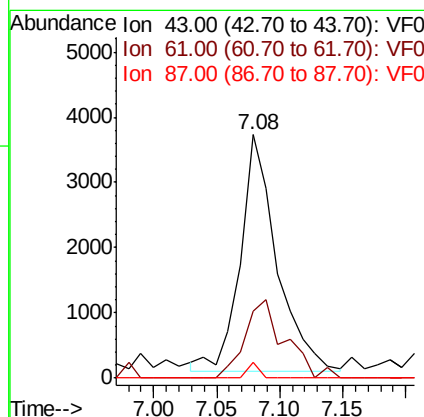
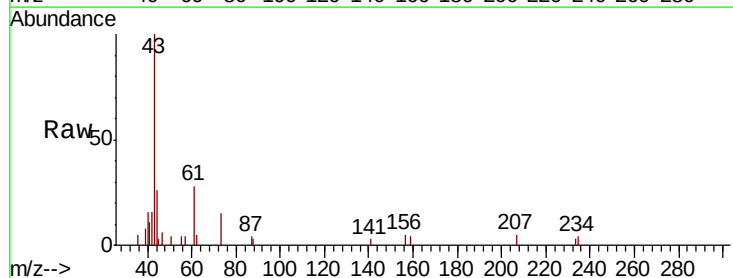
RT: 7.08 min Scan# 654

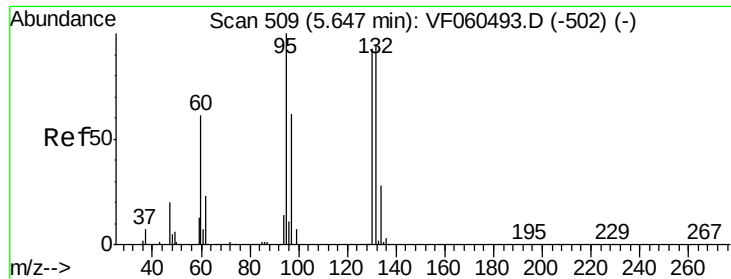
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	43	Resp:	7264
Ion Ratio	Lower	Upper	
43	100		
61	27.7	21.6	32.4
87	6.6	0.6	0.8#





#44

Trichloroethene

Concen: 2.214 ug/l

RT: 5.64 min Scan# 508

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:130 Resp: 6974

Ion Ratio Lower Upper

130 100

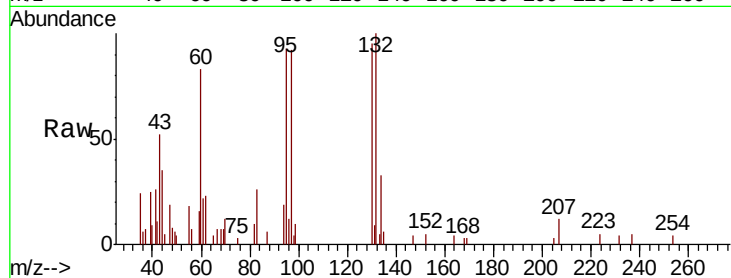
95 97.6 0.0 216.0

Manual Integrations

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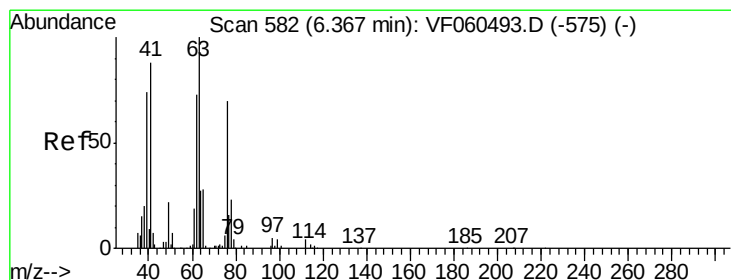
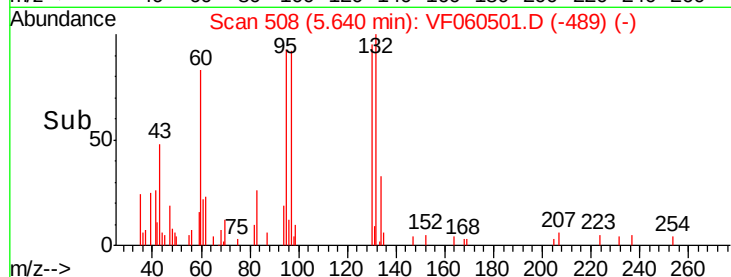
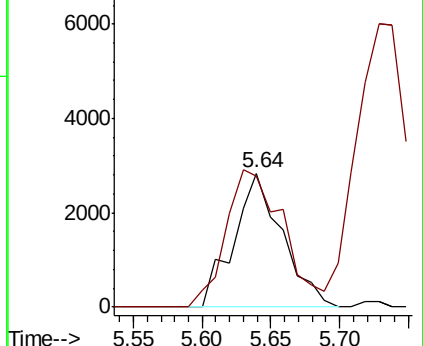
apatel

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#45

1,2-Dichloropropane

Concen: 2.290 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF060501.D

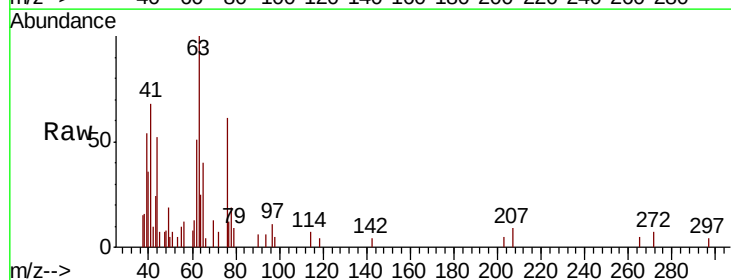
Acq: 9 Oct 2018 21:00

Tgt Ion: 63 Resp: 5669

Ion Ratio Lower Upper

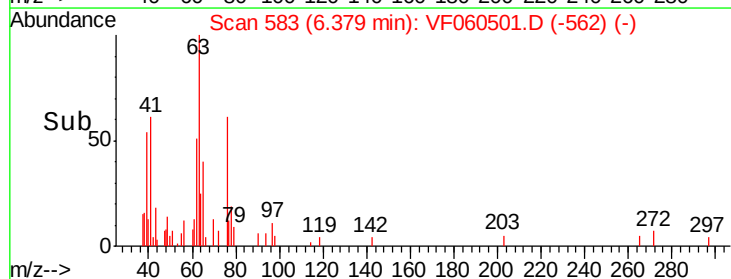
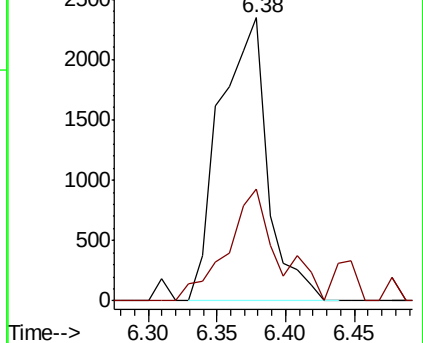
63 100

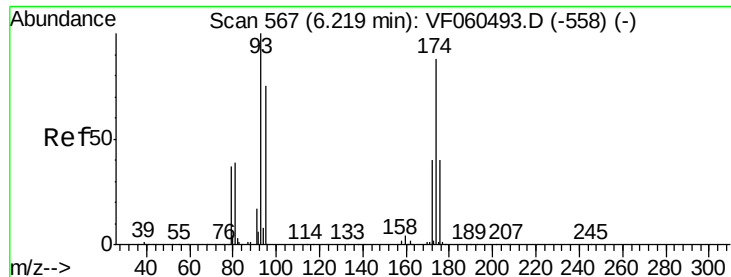
65 39.5 22.2 33.2#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#46

Dibromomethane

Concen: 2.218 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

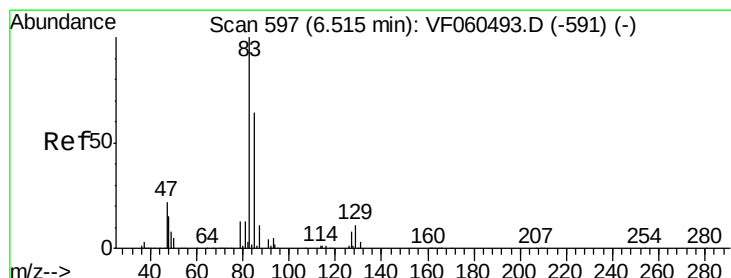
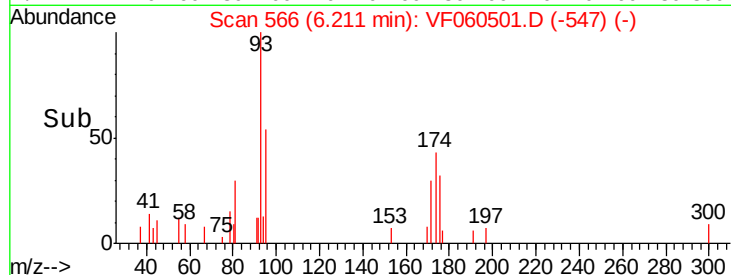
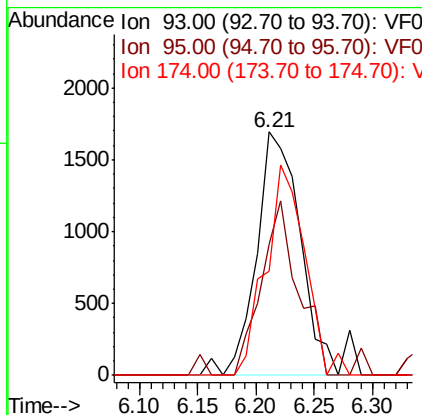
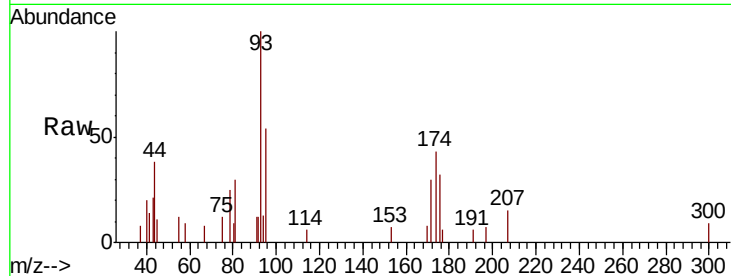
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	93	Resp:	4405
Ion Ratio	Lower	Upper	
93	100		
95	53.6	60.0	90.0#
174	43.0	71.0	106.6#

Manual Integrations
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#47

Bromodichloromethane

Concen: 2.389 ug/l

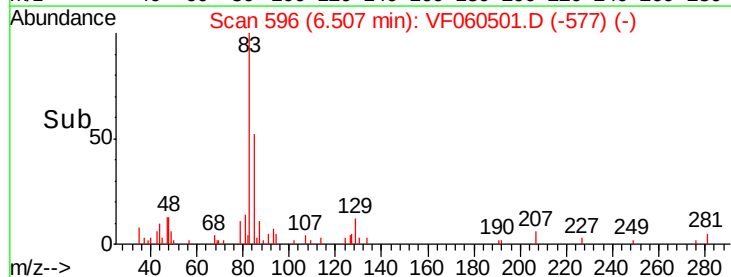
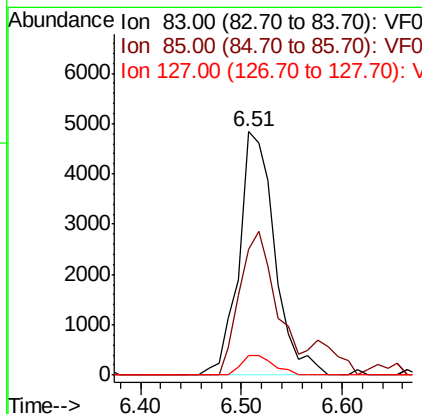
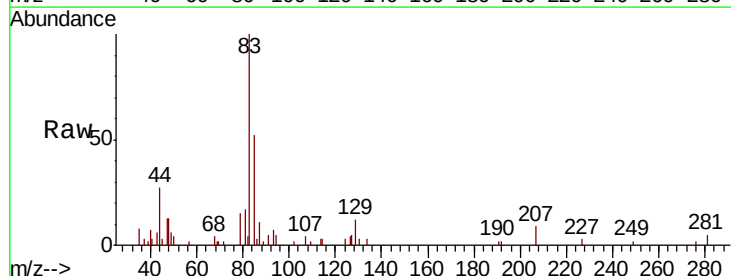
RT: 6.51 min Scan# 596

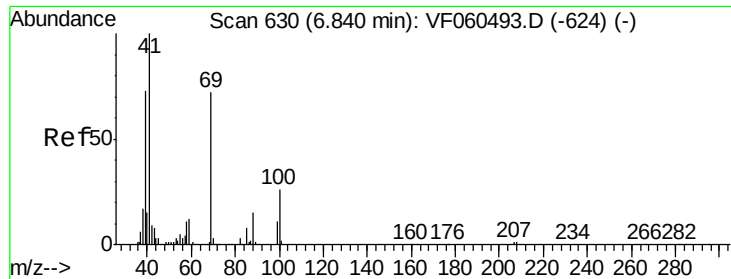
Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	83	Resp:	11979
Ion Ratio	Lower	Upper	
83	100		
85	51.9	51.2	76.8
127	8.1	6.5	9.7





#48

Methvl methacrylate

Concen: 2.382 ug/l

RT: 6.84 min Scan# 630

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

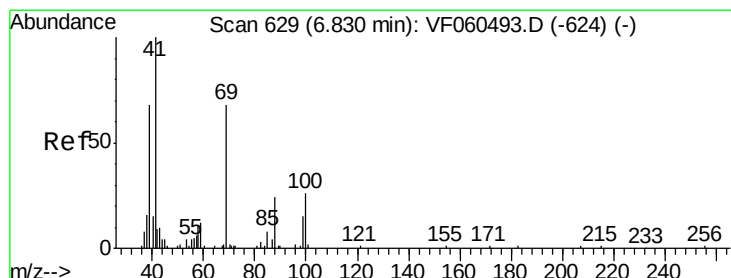
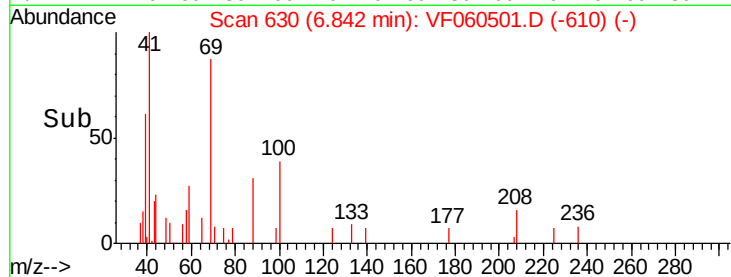
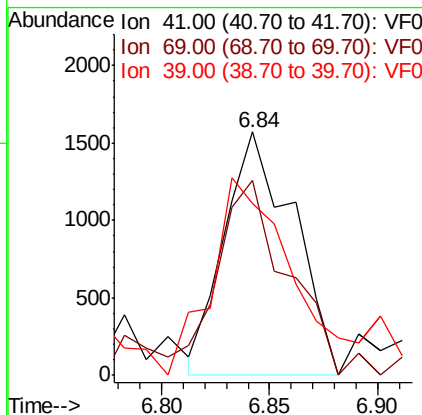
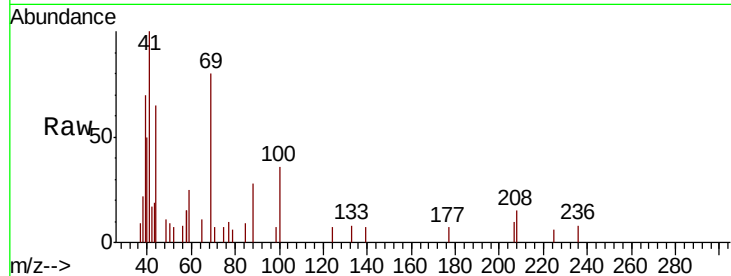
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	41	Resp:	3498
Ion	Ratio	Lower	Upper
41	100		
69	79.8	57.8	86.8
39	70.5	59.1	88.7

Manual Integrations
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#49

1,4-Dioxane

Concen: 6.347 ug/l

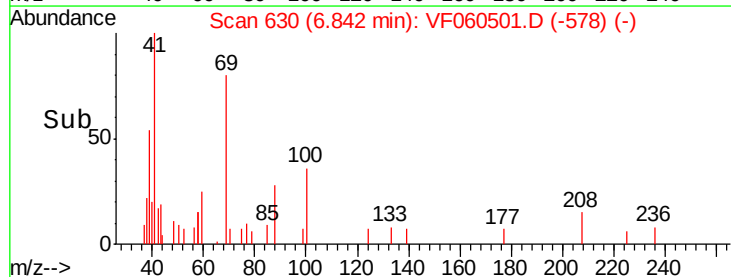
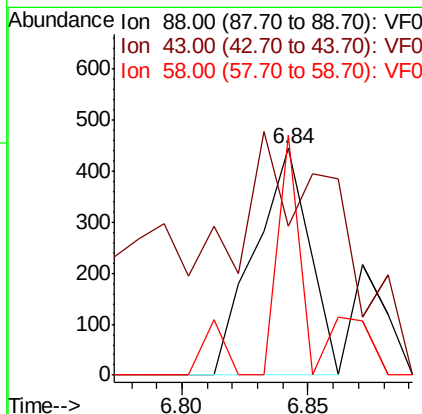
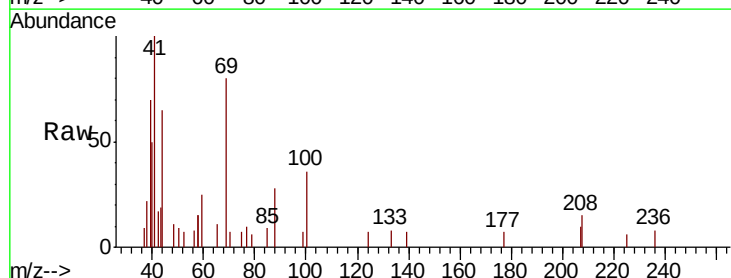
RT: 6.84 min Scan# 630

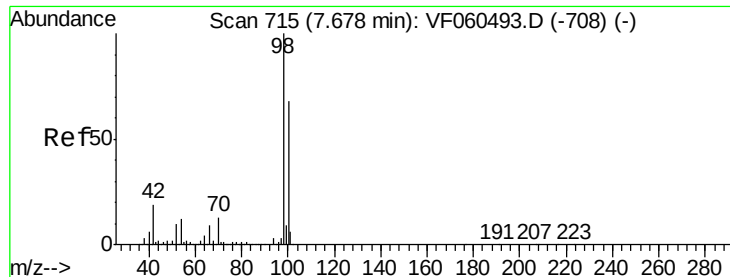
Delta R.T. 0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	88	Resp:	670
Ion	Ratio	Lower	Upper
88	100		
43	65.8	40.2	60.2#
58	105.6	36.3	54.5#





#50

Toluene-d8

Concen: 51.395 ug/l

RT: 7.68 min Scan# 715

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 98 Resp: 481475

Ion Ratio Lower Upper

98 100

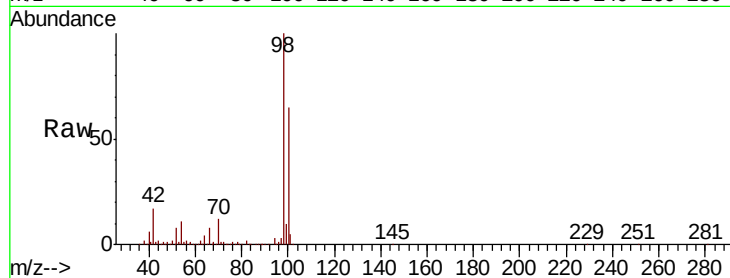
100 65.1 54.4 81.6

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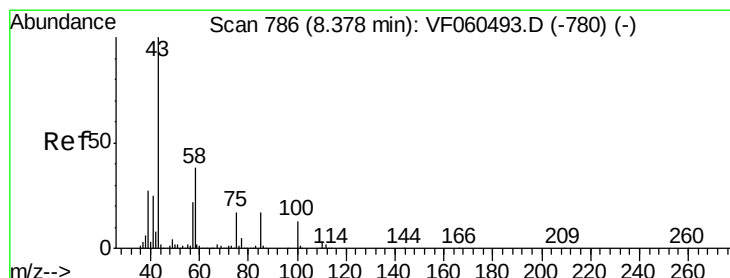
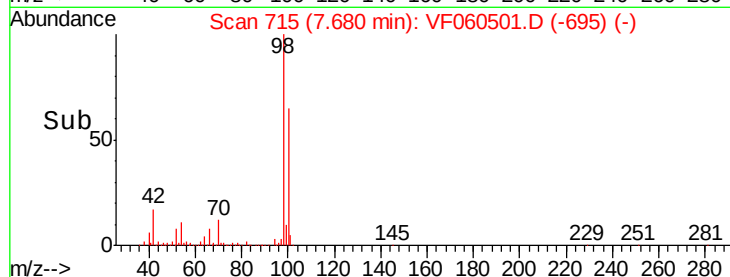
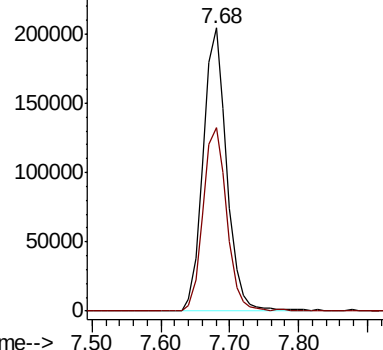
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Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#51

4-Methyl-2-Pentanone

Concen: 23.359 ug/l

RT: 8.38 min Scan# 786

Delta R.T. 0.00 min

Lab File: VF060501.D

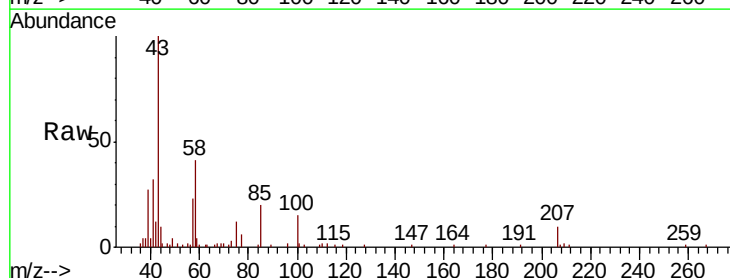
Acq: 9 Oct 2018 21:00

Tgt Ion: 43 Resp: 35331

Ion Ratio Lower Upper

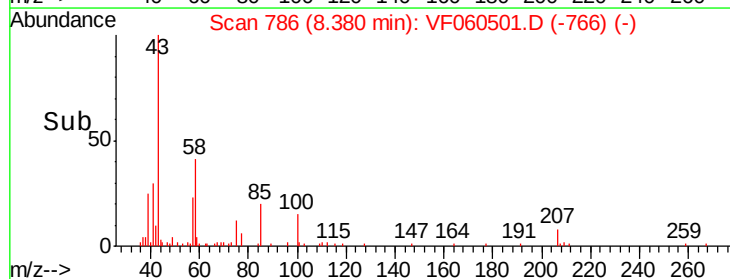
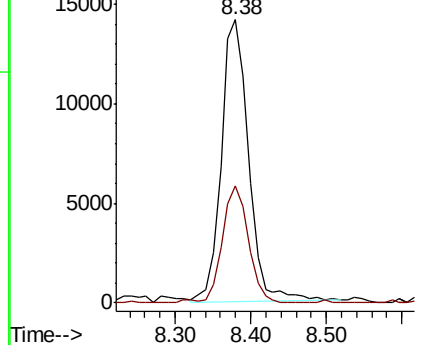
43 100

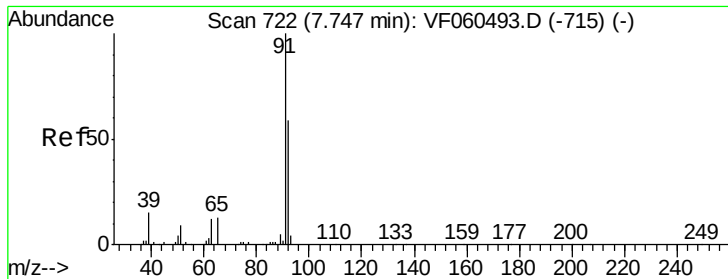
58 41.3 30.4 45.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 1.991 ug/l

RT: 7.74 min Scan# 721

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 92 Resp: 12680

Ion Ratio Lower Upper

92 100

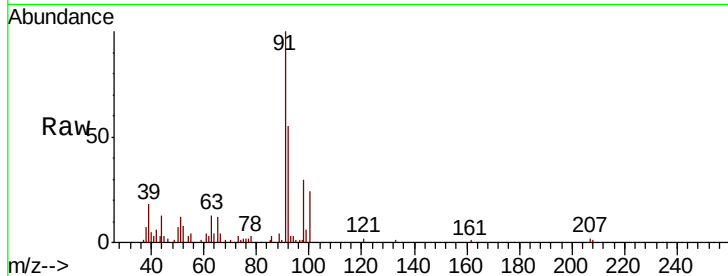
91 182.2 136.6 205.0

Manual Integrations

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Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

12000

10000

8000

6000

4000

2000

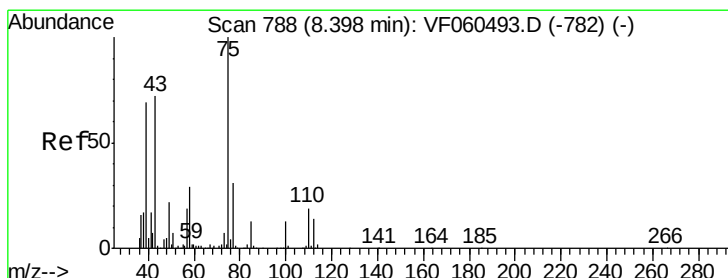
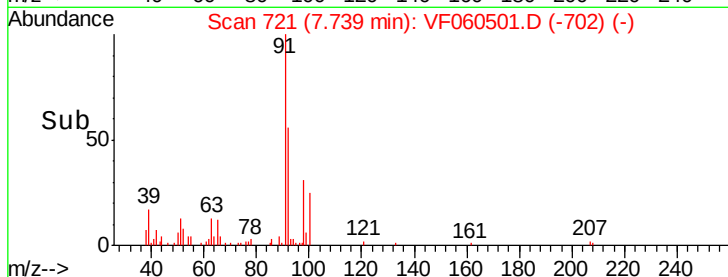
0

7.74

7.80

7.90

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.016 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060501.D

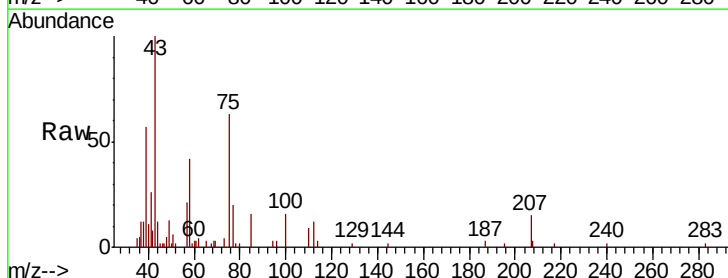
Acq: 9 Oct 2018 21:00

Tgt Ion: 75 Resp: 7854

Ion Ratio Lower Upper

75 100

77 31.0 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

4000

3000

2000

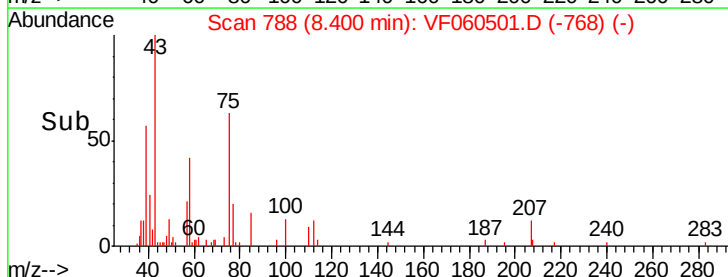
1000

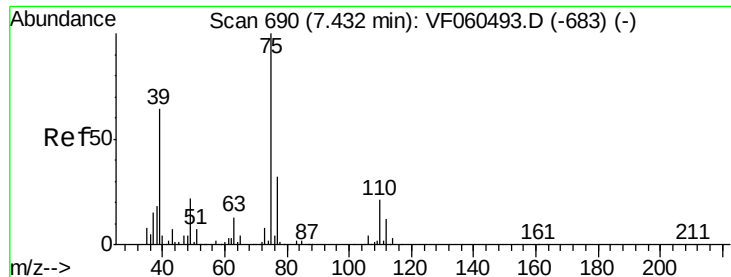
0

8.40

8.45

Time-->





#54

cis-1,3-Dichloropropene

Concen: 2.211 ug/l

RT: 7.43 min Scan# 690

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

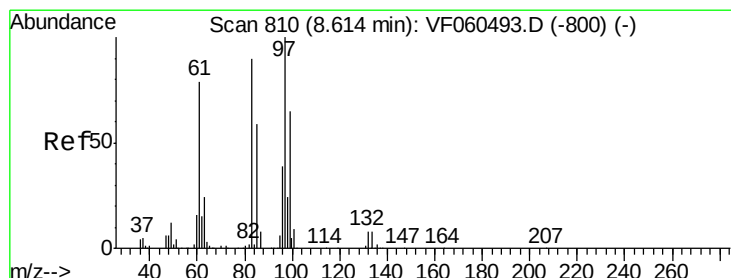
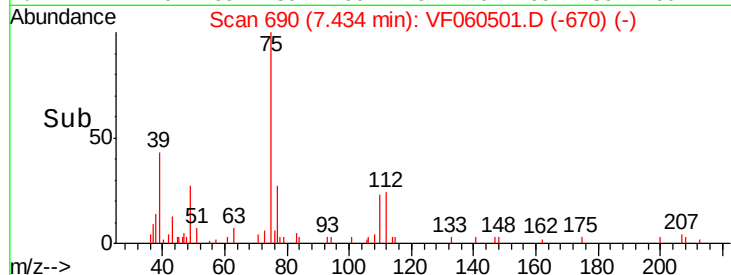
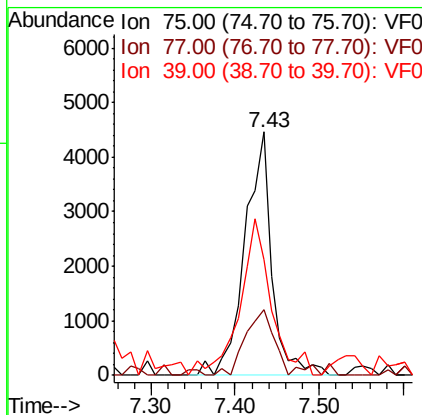
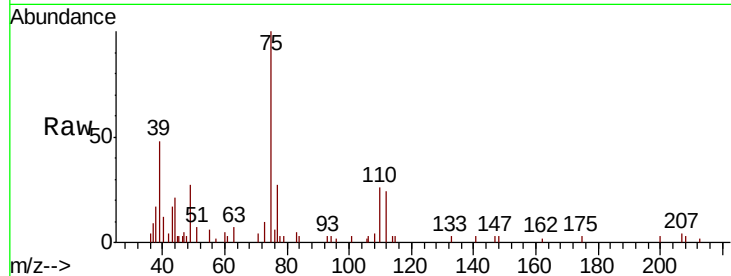
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	75	Resp:	10030
Ion Ratio	Lower	Upper	
75	100		
77	27.0	26.0	39.0
39	47.6	51.2	76.8#

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 2.063 ug/l

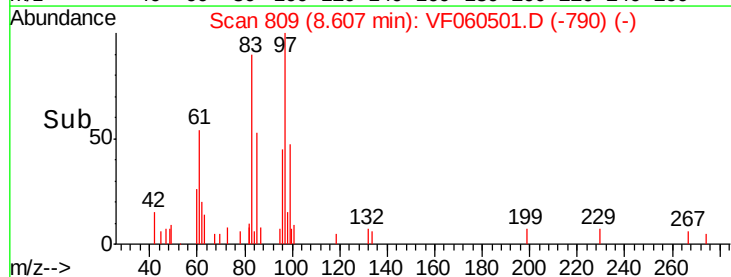
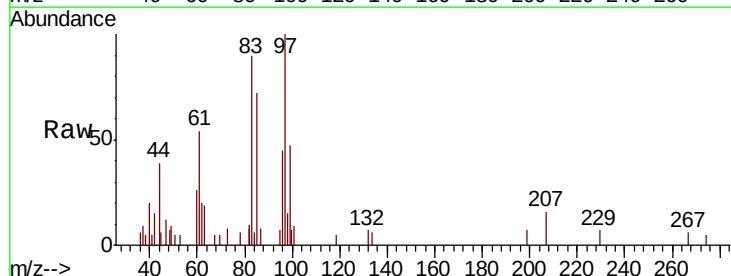
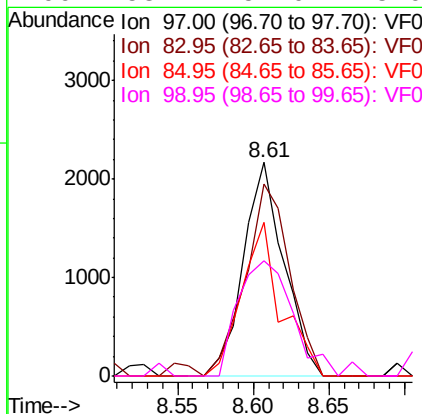
RT: 8.61 min Scan# 809

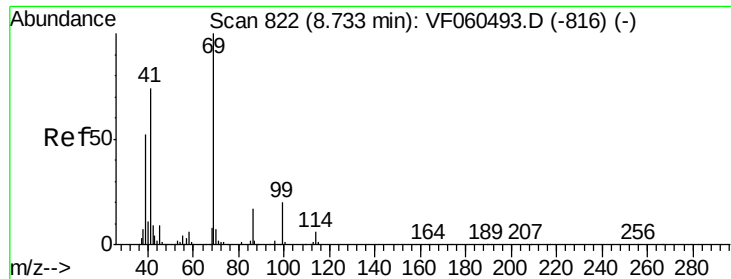
Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	97	Resp:	4037
Ion Ratio	Lower	Upper	
97	100		
83	89.8	71.9	107.9
85	72.1	47.8	71.8#
99	53.7	52.0	78.0





#56

Ethyl methacrylate

Concen: 4.621 ug/l

RT: 8.73 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

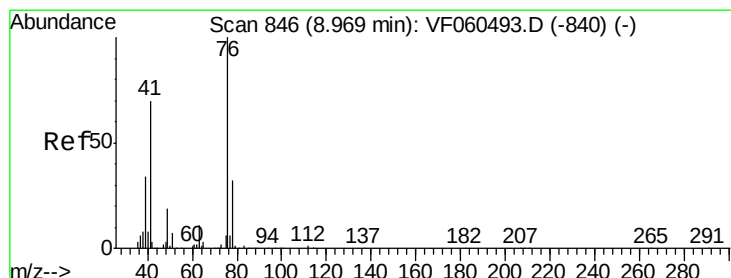
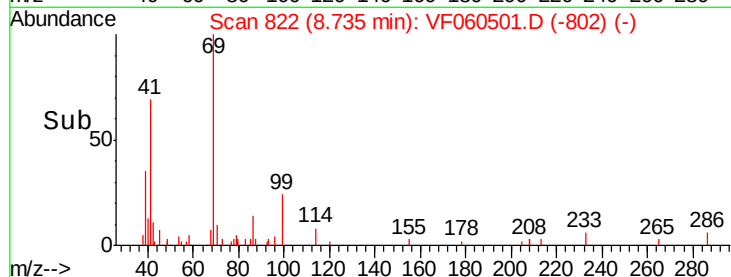
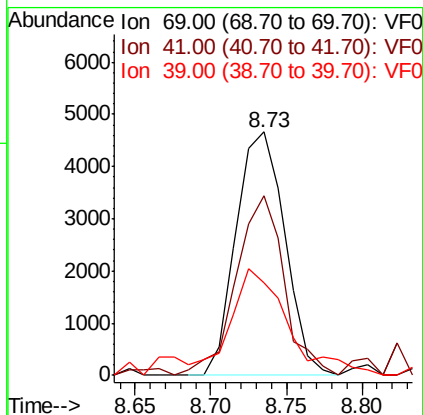
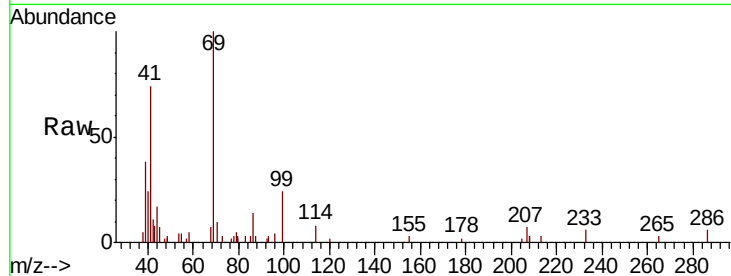
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	69	Resp:	10465
Ion Ratio	Lower	Upper	
69	100		
41	73.8	59.3	88.9
39	38.0	41.8	62.6#

Manual Integrations
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#57

1,3-Dichloropropane

Concen: 2.290 ug/l

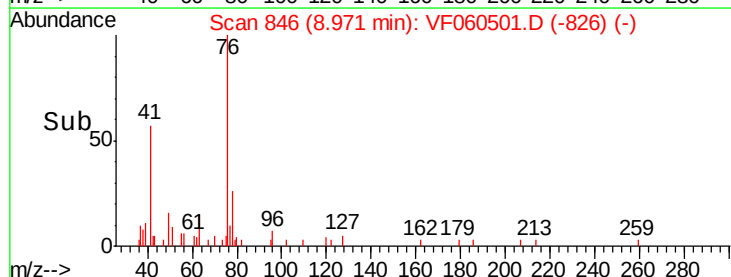
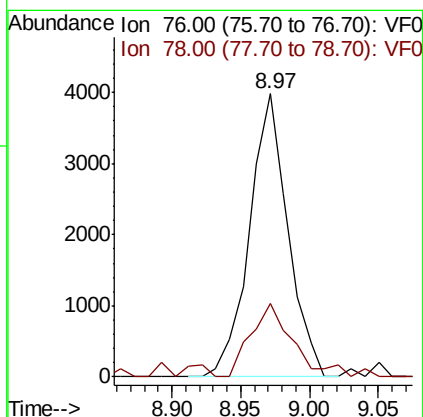
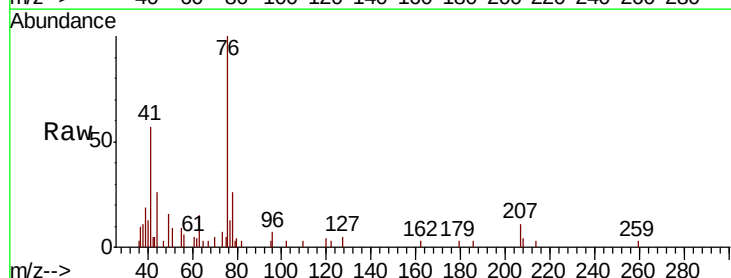
RT: 8.97 min Scan# 846

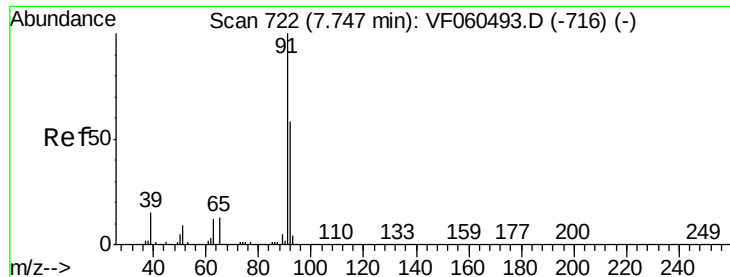
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	76	Resp:	7718
Ion Ratio	Lower	Upper	
76	100		
78	25.9	25.3	37.9





#58

2-Chloroethyl Vinyl ether

Concen: 13.179 ug/l

RT: 7.74 min Scan# 721

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 63 Resp: 3033

Ion Ratio Lower Upper

63 100

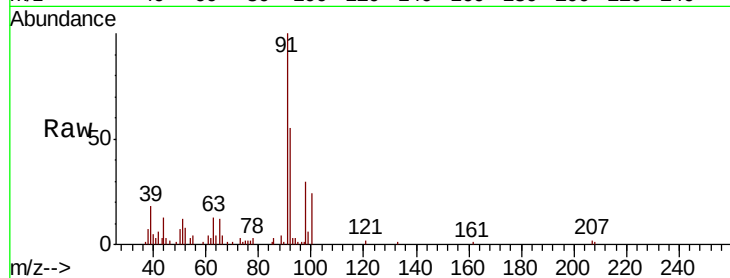
106 0.0 0.0 0.0

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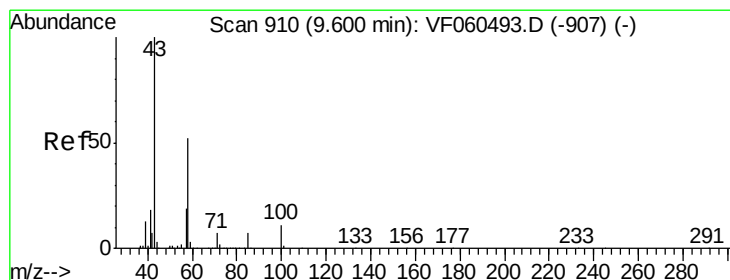
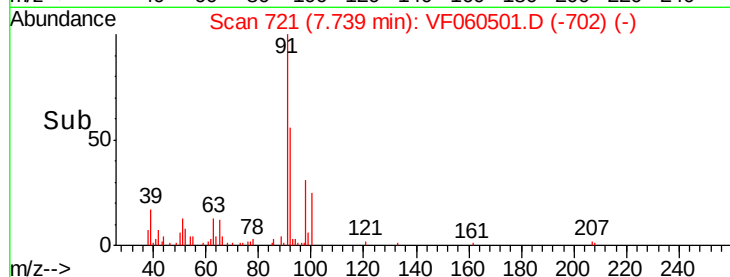
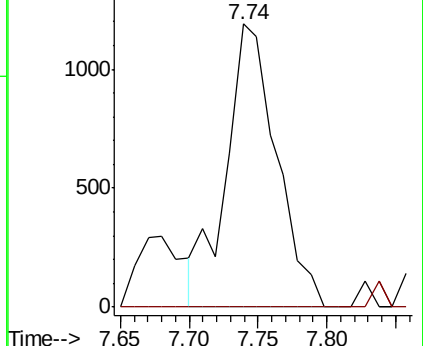
apatel

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 30.481 ug/l

RT: 9.60 min Scan# 910

Delta R.T. 0.00 min

Lab File: VF060501.D

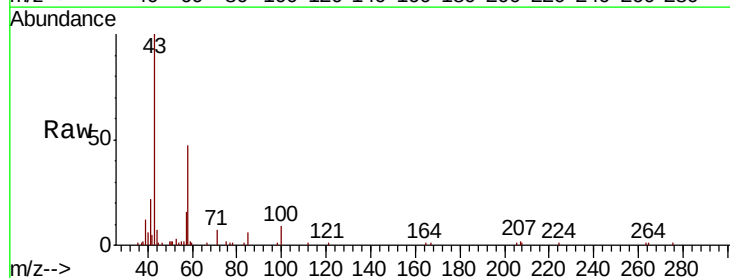
Acq: 9 Oct 2018 21:00

Tgt Ion: 43 Resp: 33349

Ion Ratio Lower Upper

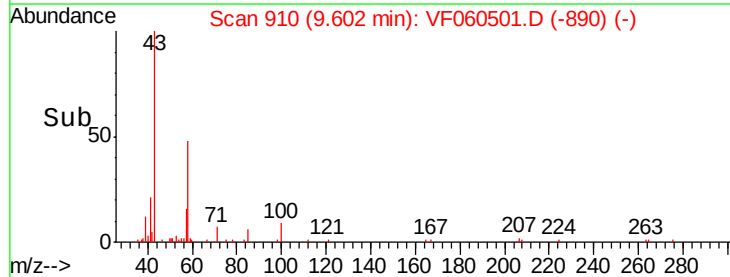
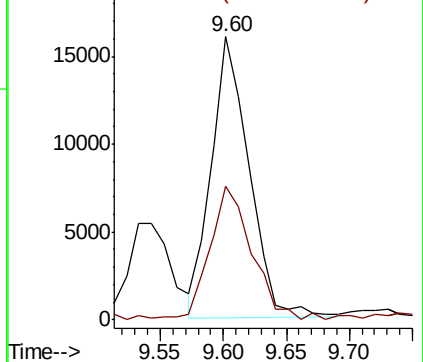
43 100

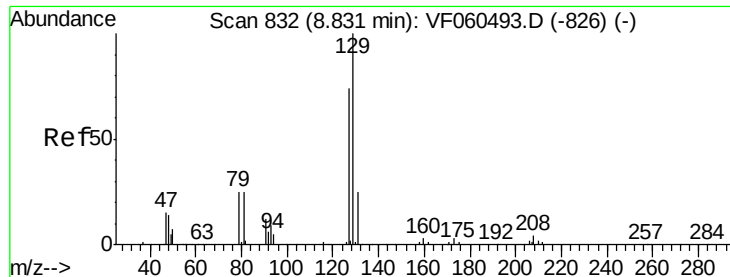
58 47.4 24.2 72.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 2.379 ug/l

RT: 8.83 min Scan# 832

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:129 Resp: 7308

Ion Ratio Lower Upper

129 100

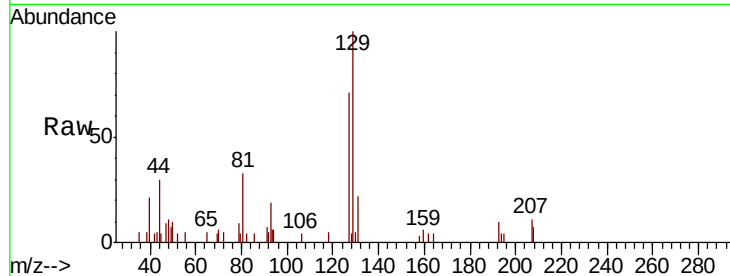
127 71.2 37.0 110.9

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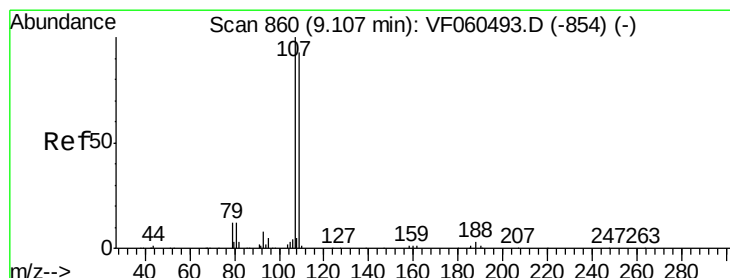
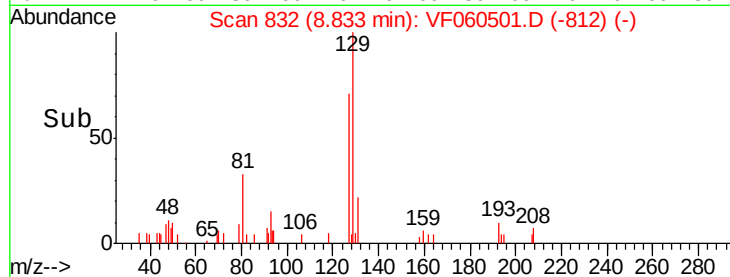
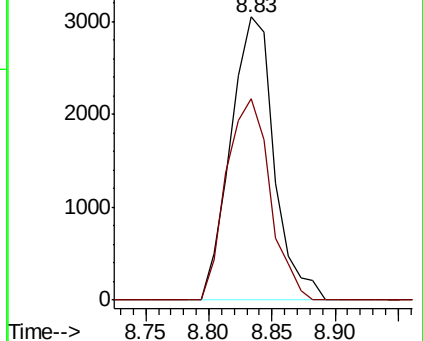
apatel

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 2.006 ug/l

RT: 9.10 min Scan# 859

Delta R.T. -0.01 min

Lab File: VF060501.D

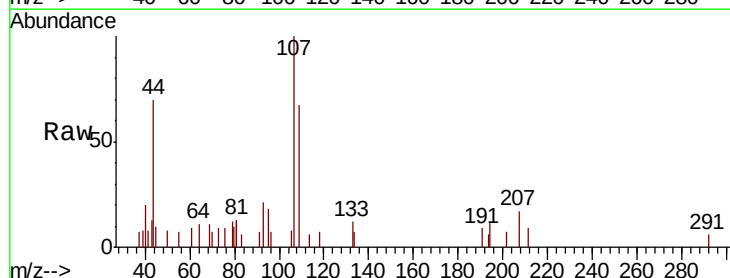
Acq: 9 Oct 2018 21:00

Tgt Ion:107 Resp: 4436

Ion Ratio Lower Upper

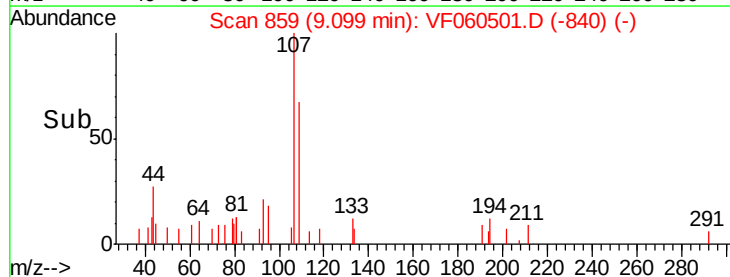
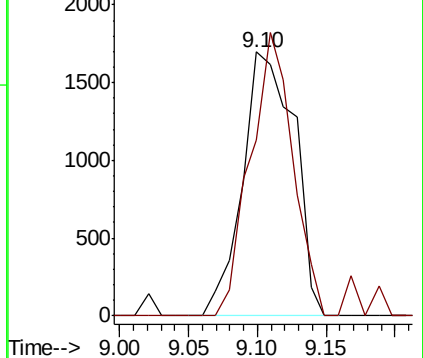
107 100

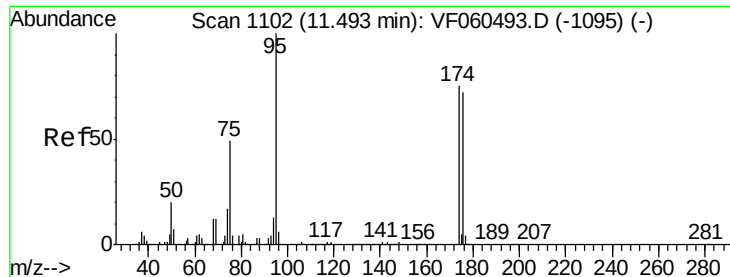
109 66.7 74.6 112.0#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





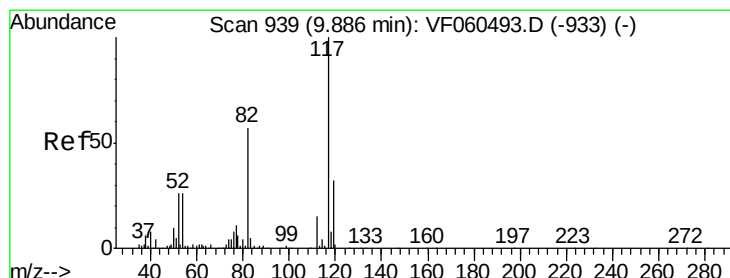
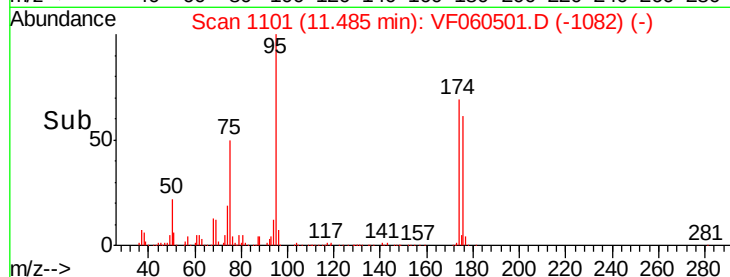
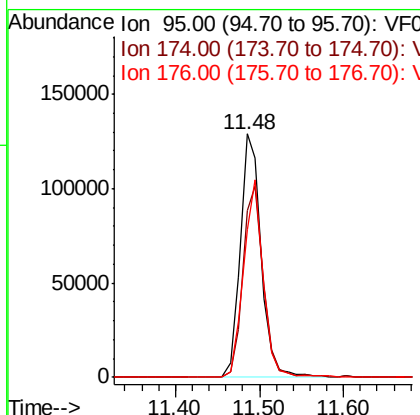
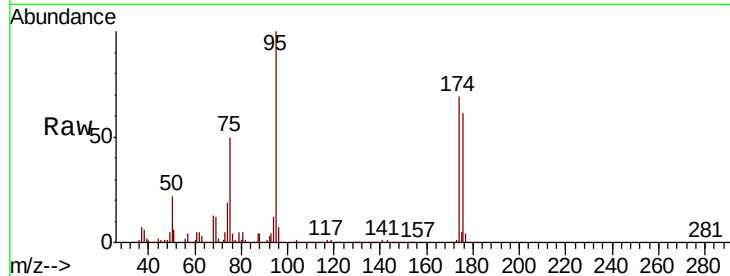
#62
4-Bromofluorobenzene
Concen: 53.782 ug/l
RT: 11.48 min Scan# 1101
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Resp	Lower	Upper
95	100	221061		
174	68.6	0.0	150.4	
176	60.6	0.0	144.6	

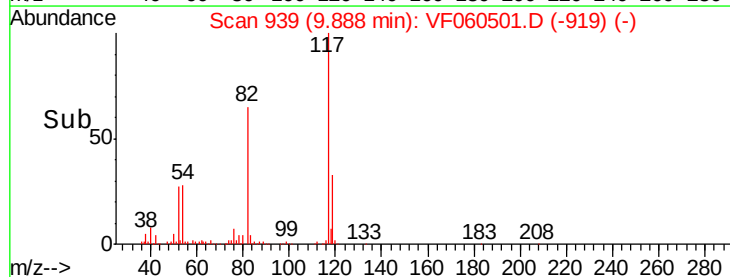
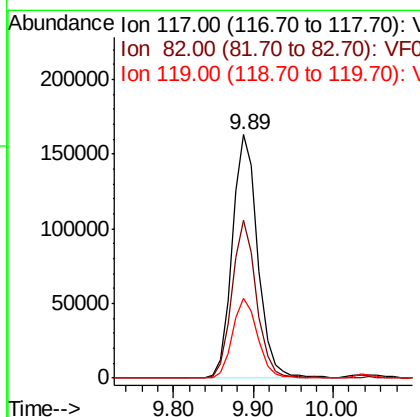
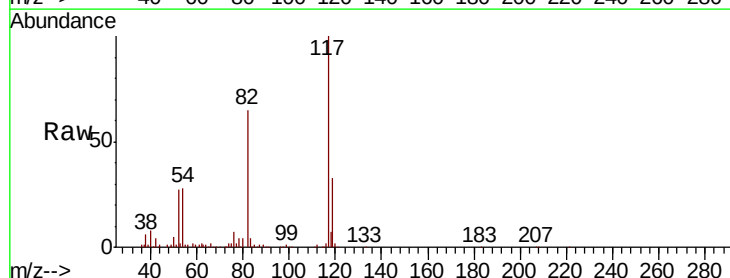
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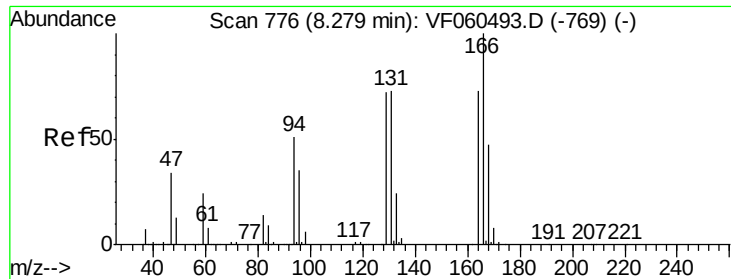
apatel
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 939
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	364265		
82	64.7	45.6	68.4	
119	32.8	25.3	37.9	





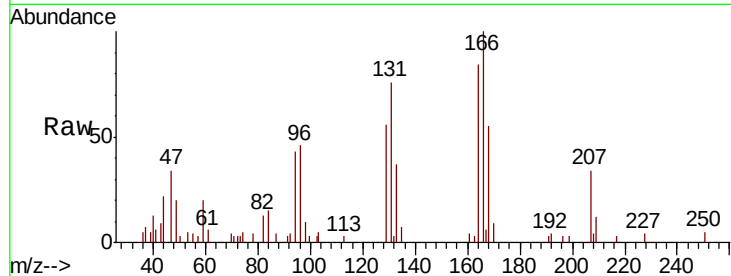
#64
Tetrachloroethene
Concen: 2.640 ug/l
RT: 8.28 min Scan# 776
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	119.6	109.4	164.0
129	67.0	78.9	118.3
131	91.3	79.5	119.3

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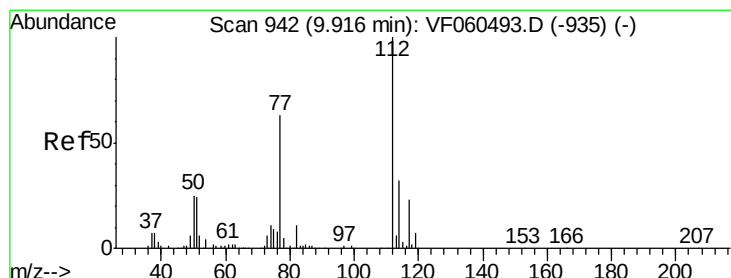
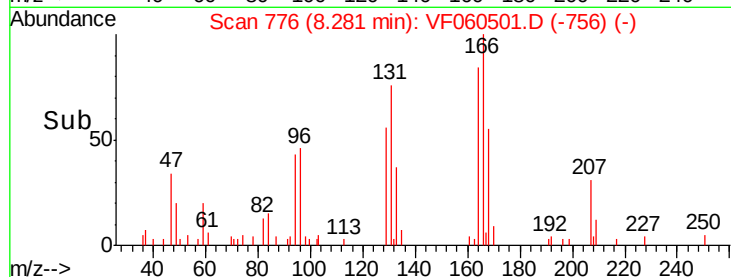
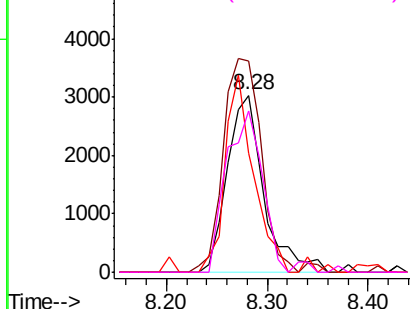
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

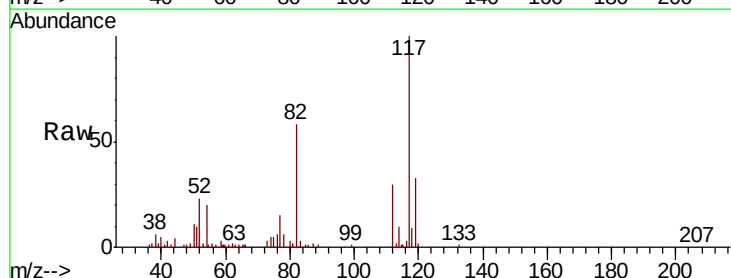
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#65
Chlorobenzene
Concen: 2.204 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

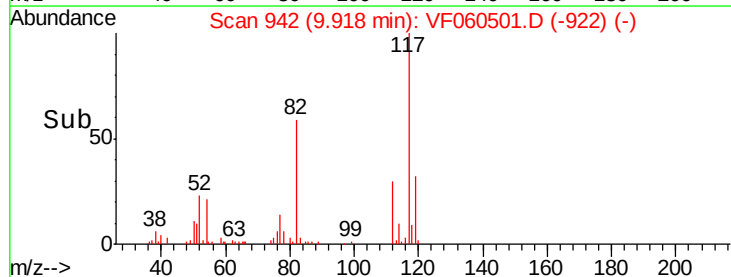
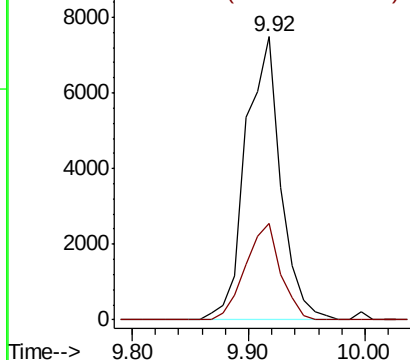
Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.3	25.9	38.9

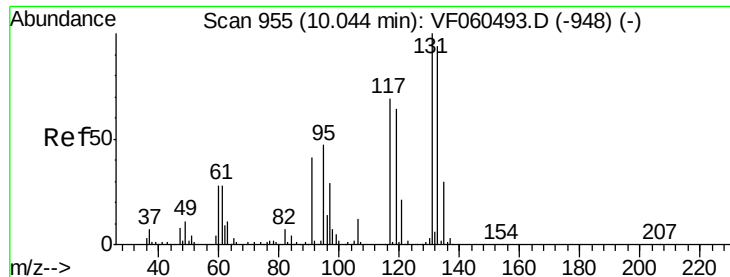


Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





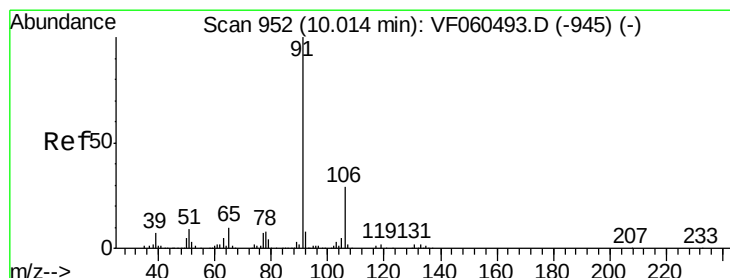
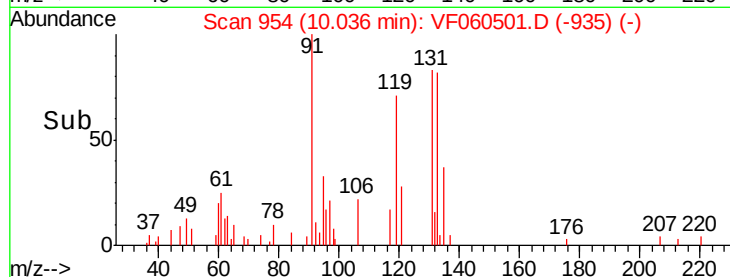
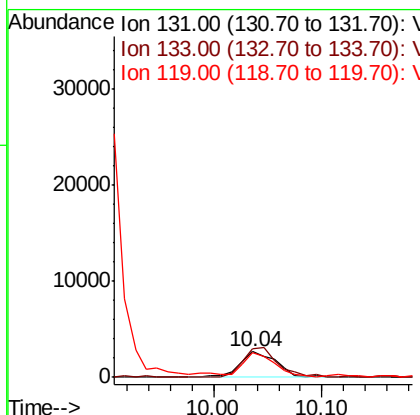
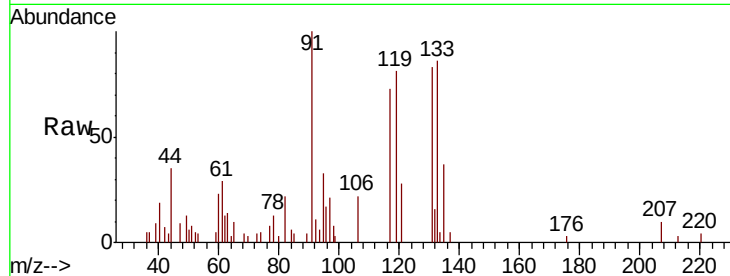
#66
 1,1,1,2-Tetrachloroethane
 Concen: 1.928 ug/l
 RT: 10.04 min Scan# 954
 Delta R.T. -0.01 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Lower	Upper
131	100		
133	109.3	47.1	141.4
119	98.4	32.0	96.2

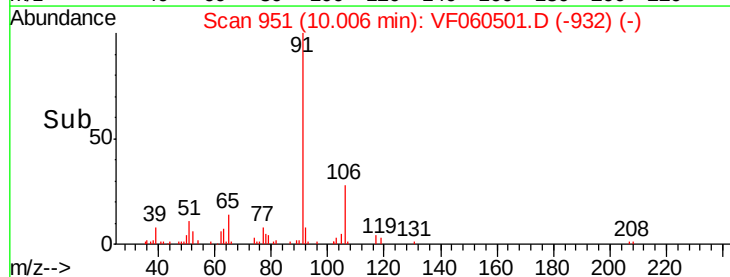
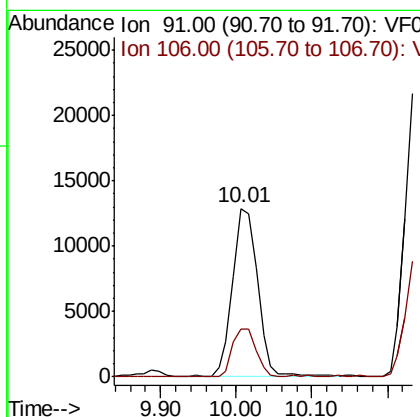
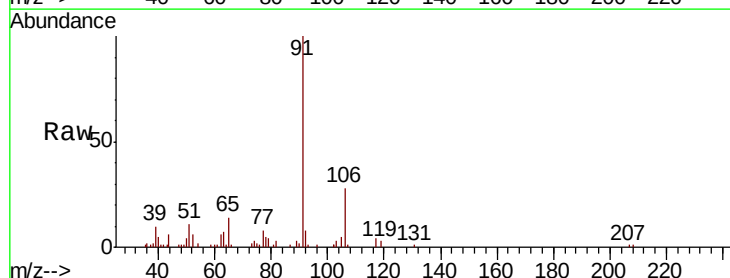
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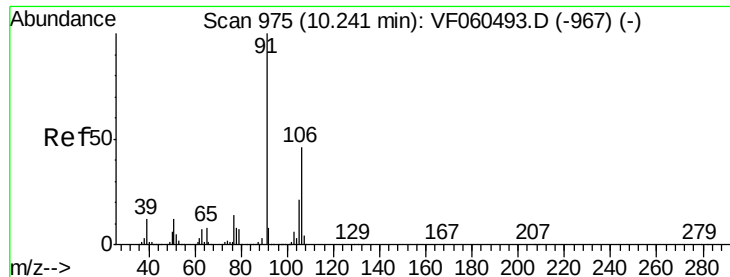
apatel
 10/10/2018 12:34:20 PM



#67
 Ethyl Benzene
 Concen: 2.230 ug/l
 RT: 10.01 min Scan# 951
 Delta R.T. -0.01 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.3	34.9





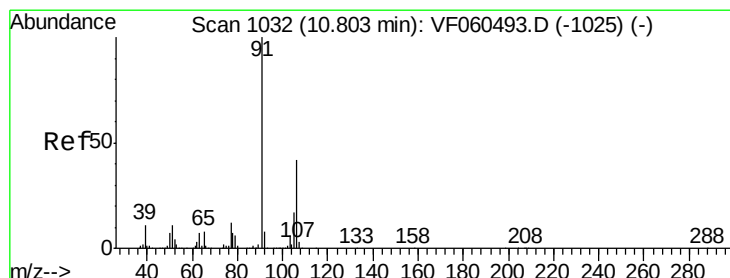
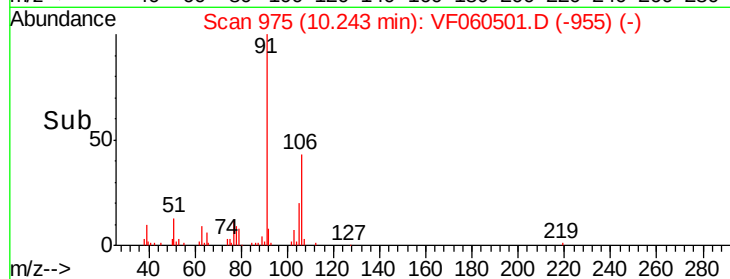
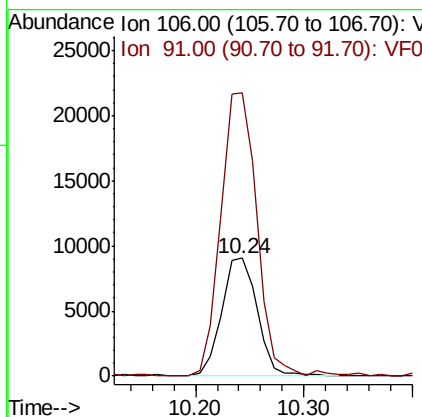
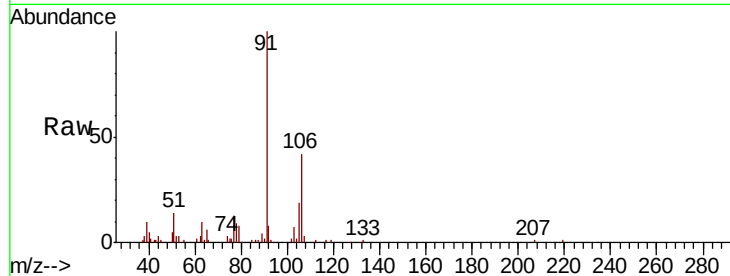
#68
m/p-Xylenes
Concen: 4.574 ug/l
RT: 10.24 min Scan# 975
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:106 Resp: 20839
Ion Ratio Lower Upper
106 100
91 239.9 174.6 262.0

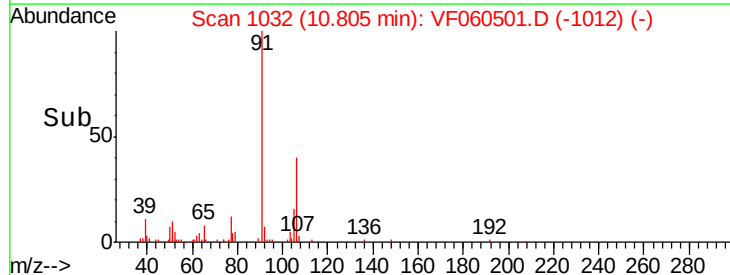
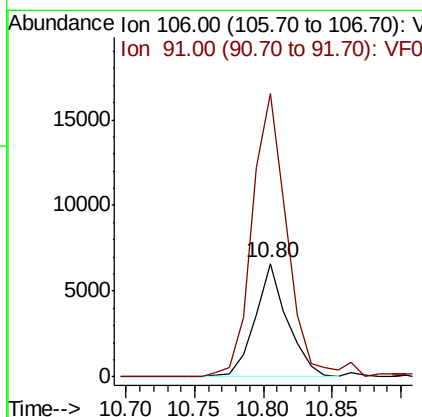
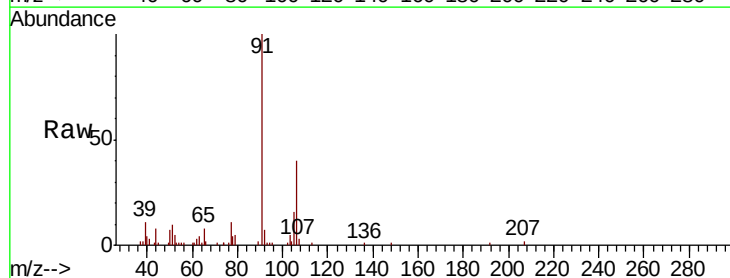
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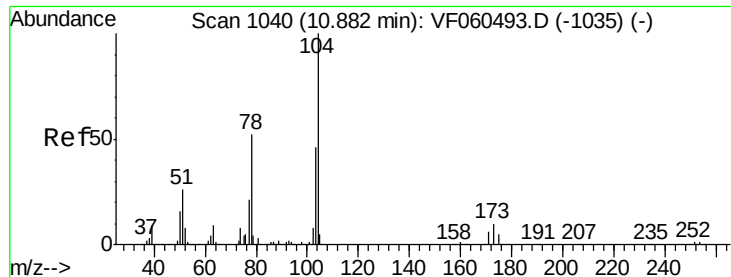
apatel
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#69
o-Xylene
Concen: 2.208 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion:106 Resp: 10940
Ion Ratio Lower Upper
106 100
91 249.2 118.8 356.3





#70

Stvrene

Concen: 2.518 ug/l

RT: 10.87 min Scan# 1039

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

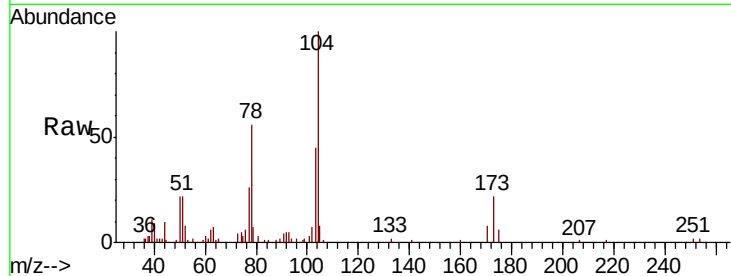
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

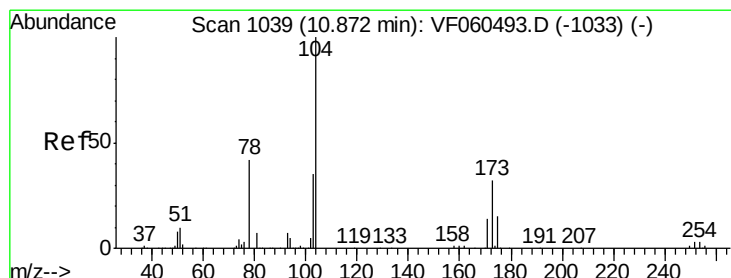
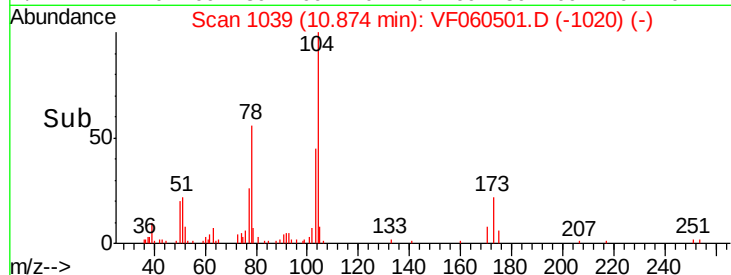
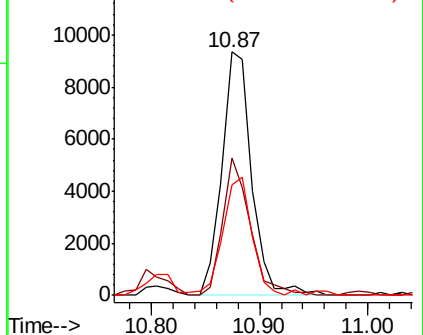
Tot Ion:	104	Resp:	17959
Ion Ratio	Lower	Upper	
104	100		
78	56.4	42.7	64.1
103	45.3	37.6	56.4

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Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.229 ug/l

RT: 10.87 min Scan# 1039

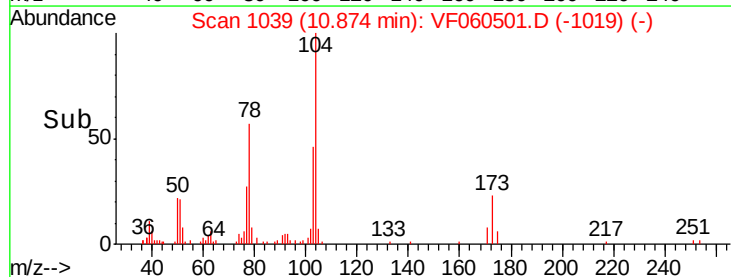
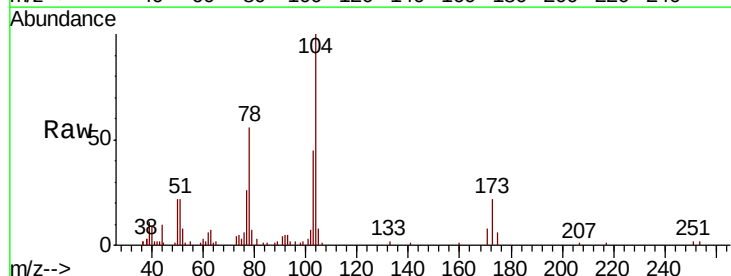
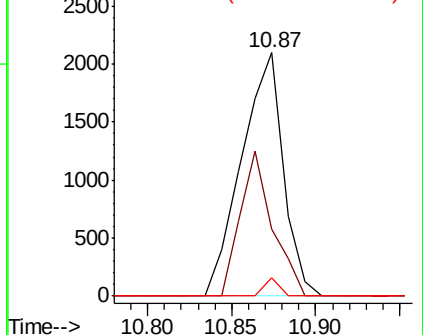
Delta R.T. 0.00 min

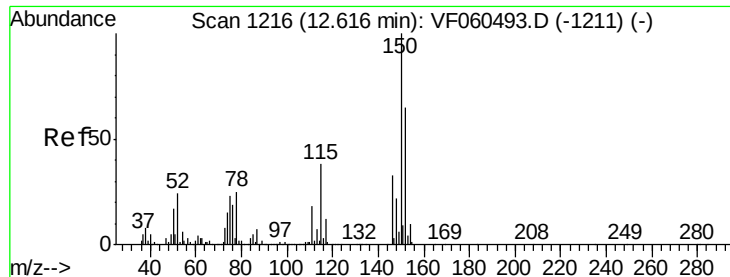
Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	173	Resp:	3601
Ion Ratio	Lower	Upper	
173	100		
175	27.6	23.2	69.6
254	7.4	0.2	0.2#

Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V





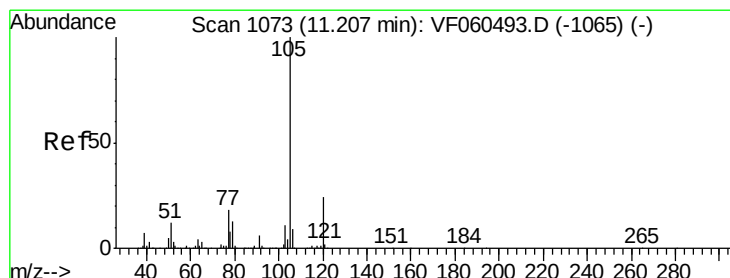
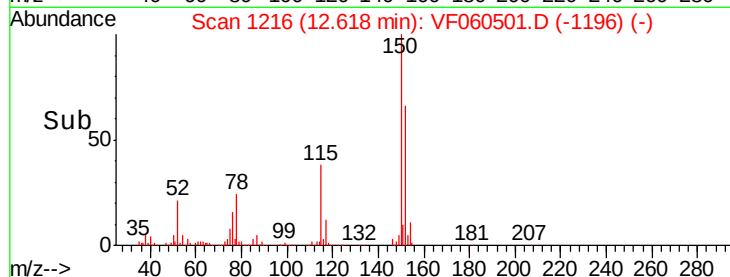
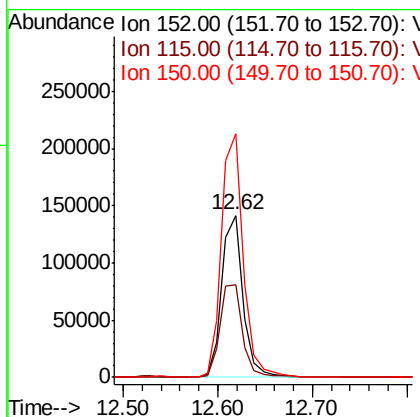
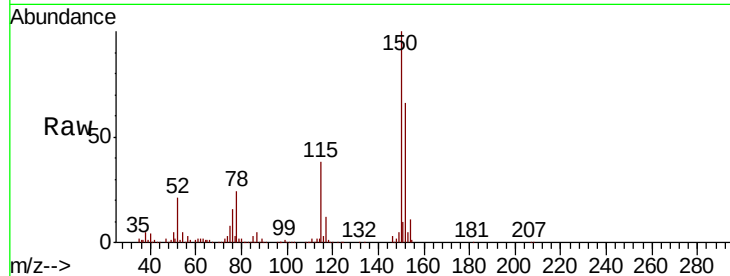
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.62 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.3	29.5	88.5
150	150.4	0.0	310.0

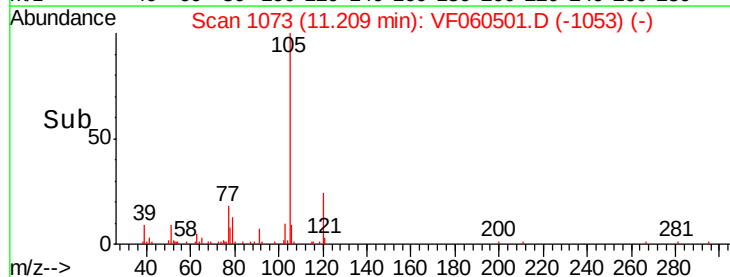
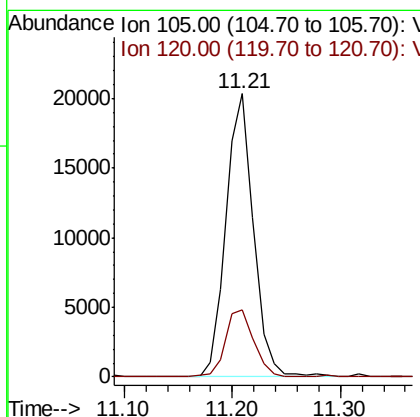
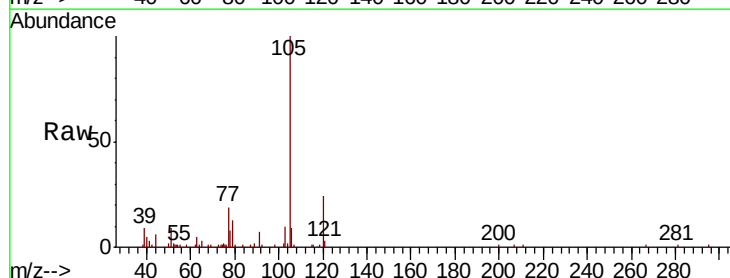
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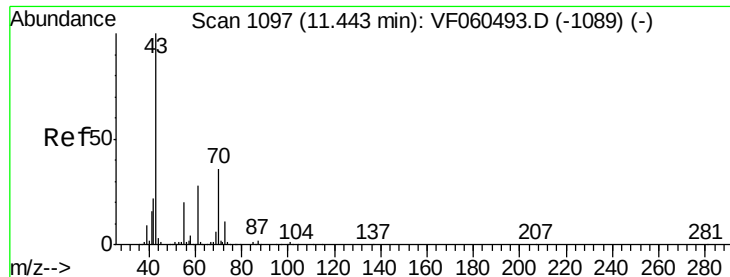
apatel
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#73
 Isopropylbenzene
 Concen: 2.207 ug/l
 RT: 11.21 min Scan# 1073
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.6	11.9	35.9





#74

N-amvl acetate

Concen: 5.568 ug/l

RT: 11.45 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

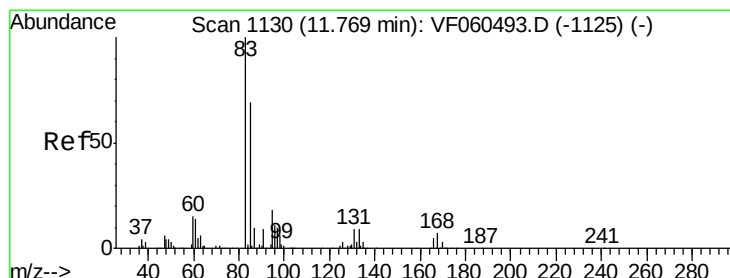
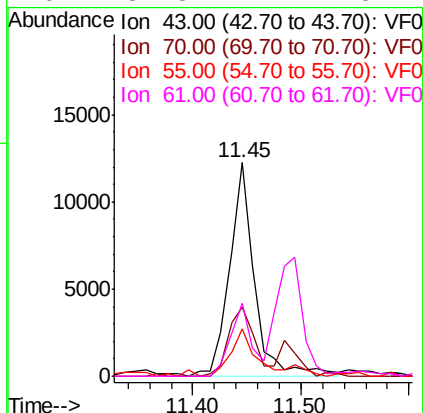
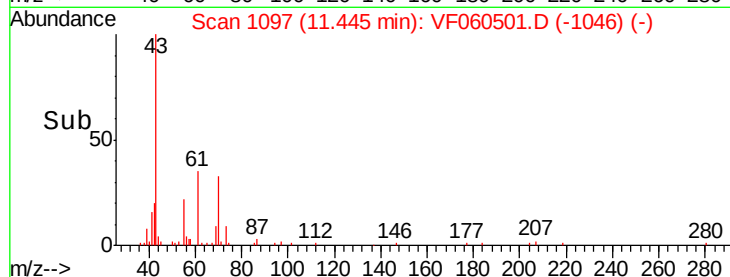
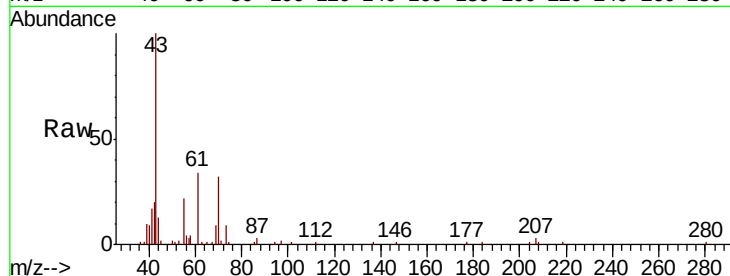
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		19816		
70	32.5	28.7	43.1		
55	22.0	16.1	24.1		
61	34.3	22.7	34.1#		

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#75

1,1,2,2-Tetrachloroethane

Concen: 2.302 ug/l

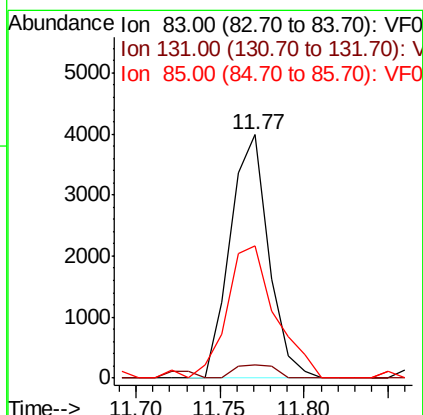
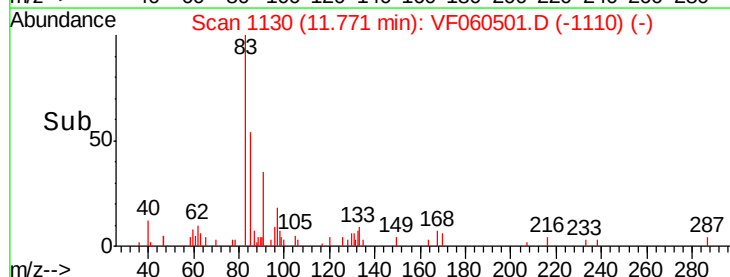
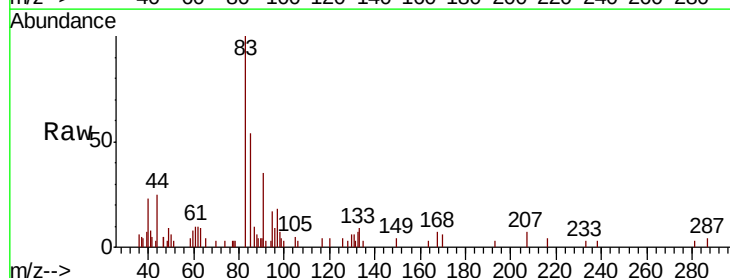
RT: 11.77 min Scan# 1130

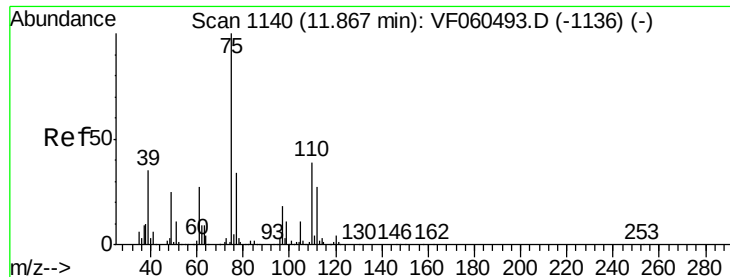
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		6327		
131	8.2	4.5	13.4		
85	54.2	34.8	104.4		





#76

1,2,3-Trichloropropane

Concen: 2.225 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 75 Resp: 4726

Ion Ratio Lower Upper

75 100

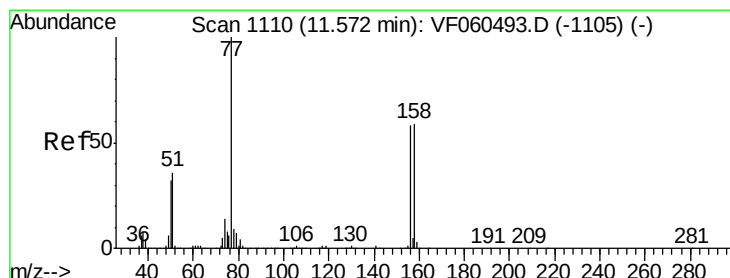
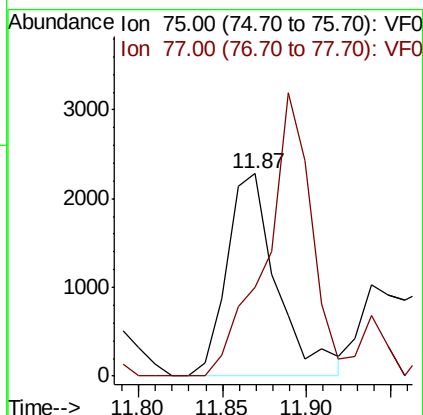
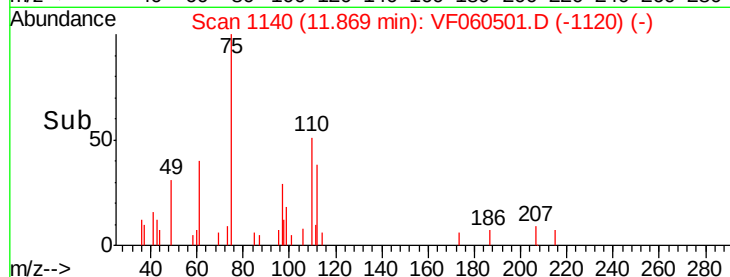
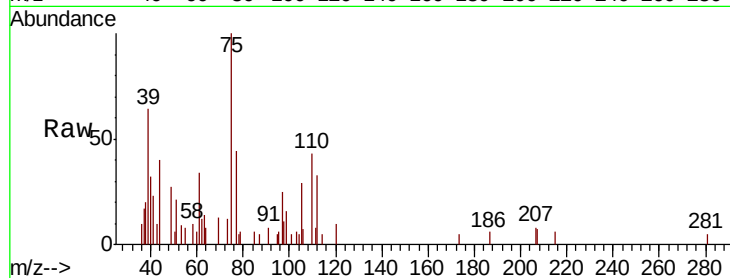
77 44.1 17.4 52.2

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#77

Bromobenzene

Concen: 2.026 ug/l

RT: 11.57 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

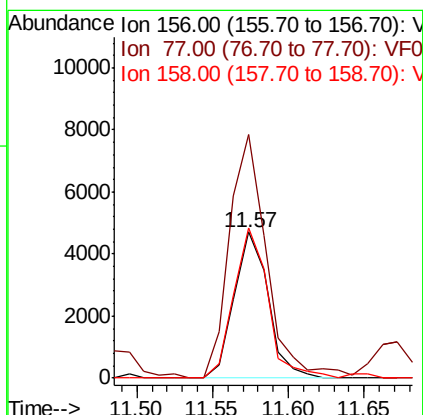
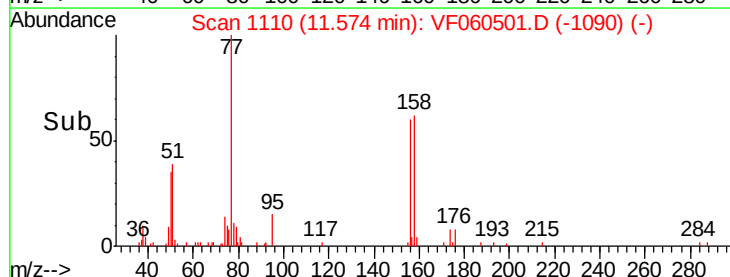
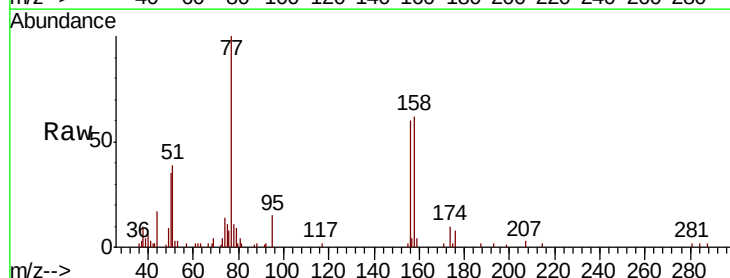
Tgt Ion: 156 Resp: 7360

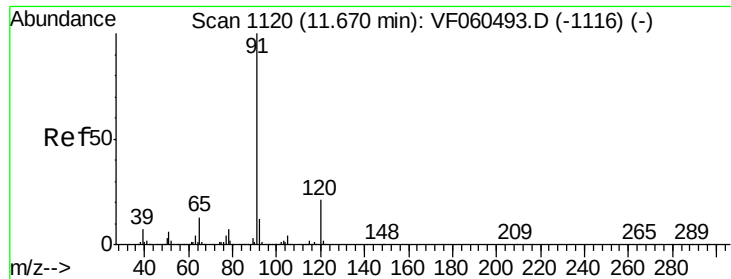
Ion Ratio Lower Upper

156 100

77 156.0 86.3 258.8

158 96.2 51.1 153.3





#78

n-propylbenzene

Concen: 2.277 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 91 Resp: 44339

Ion Ratio Lower Upper

91 100

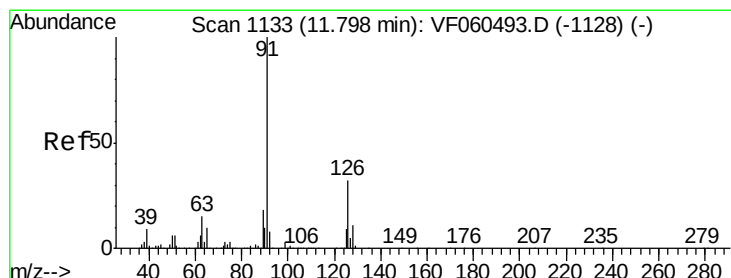
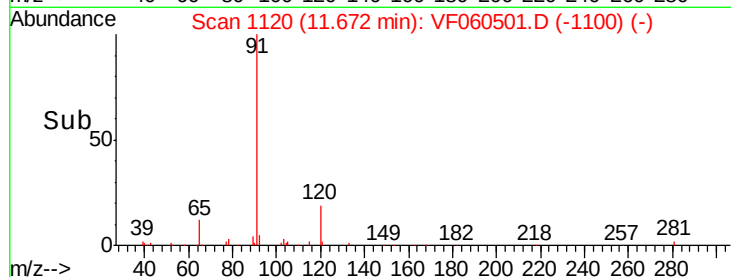
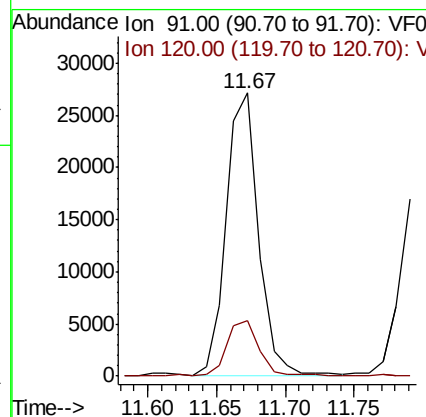
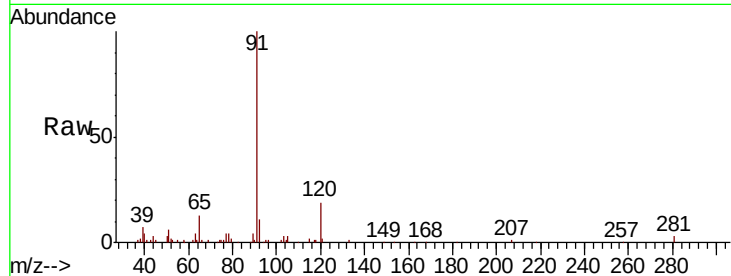
120 19.5 10.5 31.6

Manual Integrations

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#79

2-Chlorotoluene

Concen: 2.378 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF060501.D

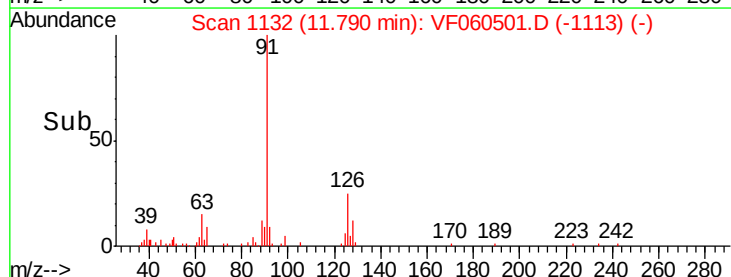
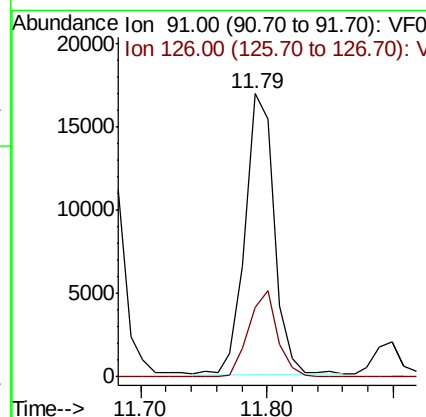
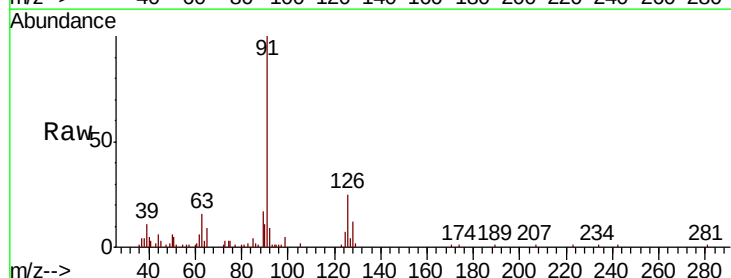
Acq: 9 Oct 2018 21:00

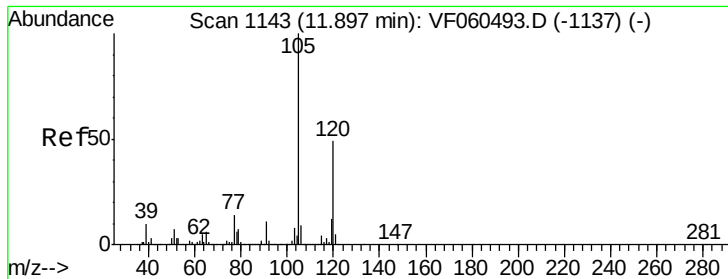
Tgt Ion: 91 Resp: 27113

Ion Ratio Lower Upper

91 100

126 24.8 16.1 48.3





#80

1,3,5-Trimethylbenzene

Concen: 2.345 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:105 Resp: 32168

Ion Ratio Lower Upper

105 100

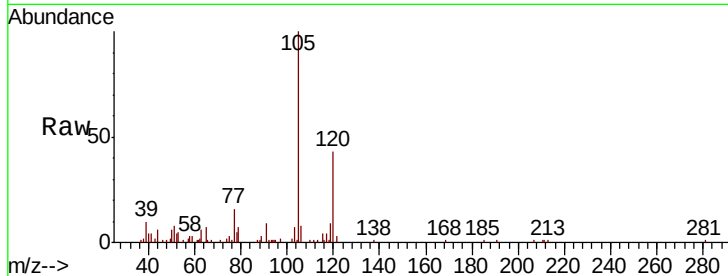
120 43.0 24.4 73.2

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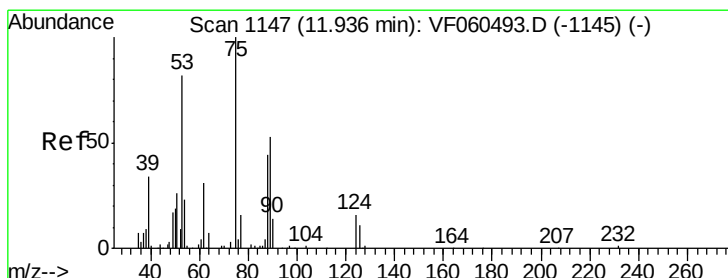
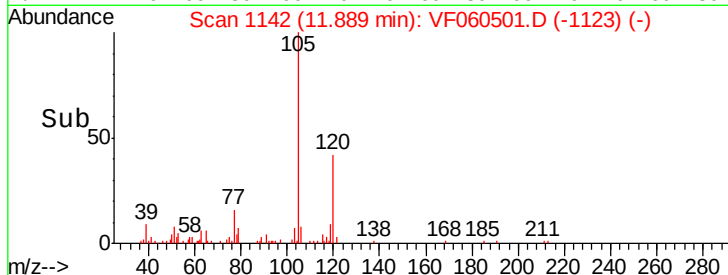
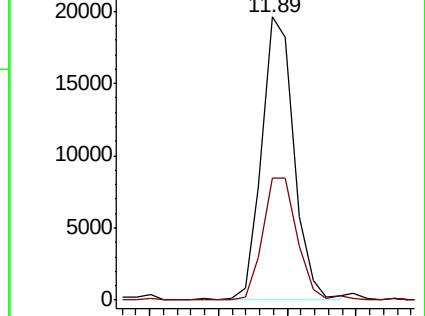
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 3.429 ug/l

RT: 11.94 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

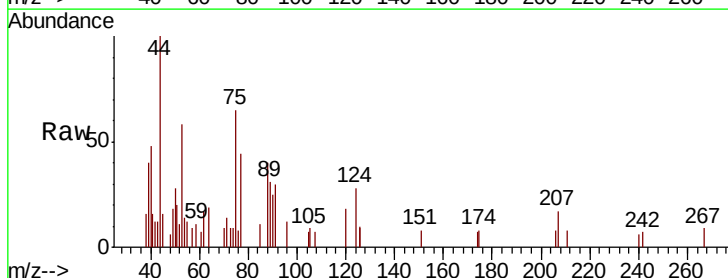
Tgt Ion: 75 Resp: 3176

Ion Ratio Lower Upper

75 100

53 89.6 71.0 106.6

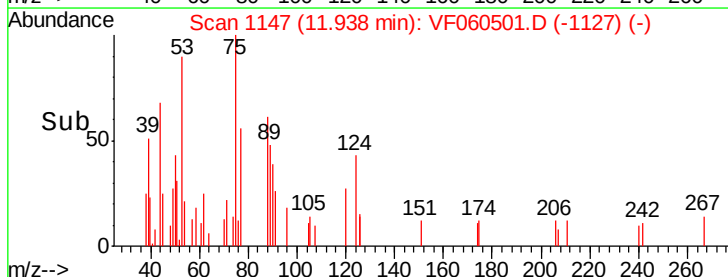
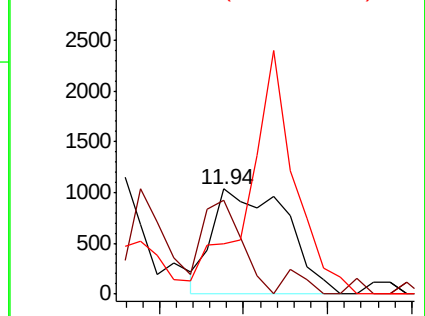
89 47.6 43.1 64.7

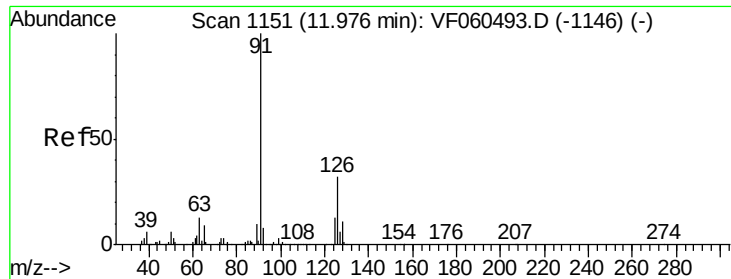


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#82

4-Chlorotoluene

Concen: 2.183 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion: 91 Resp: 25670

Ion Ratio Lower Upper

91 100

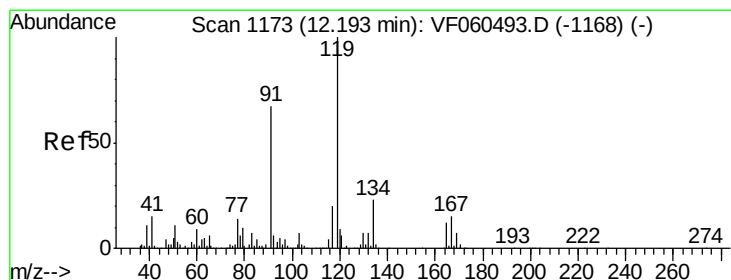
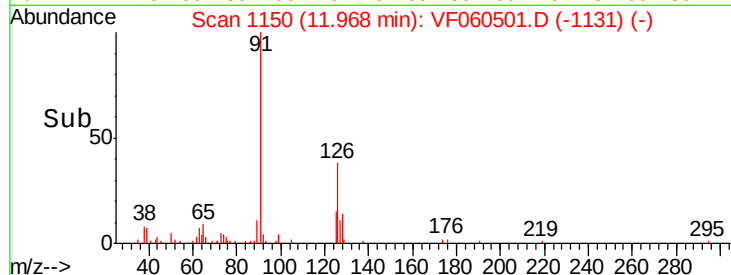
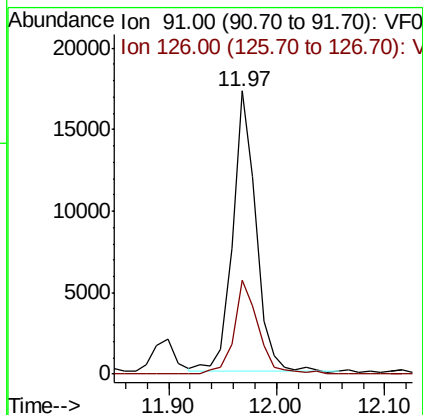
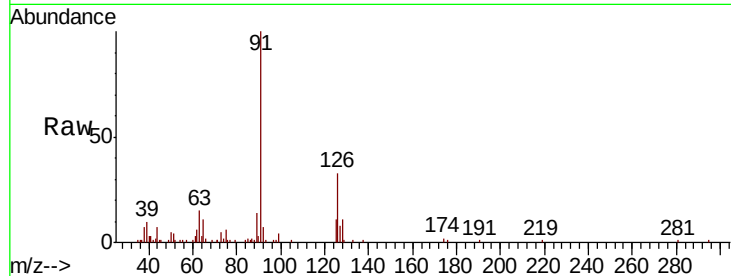
126 33.4 16.0 47.9

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#83

tert-Butylbenzene

Concen: 2.204 ug/l

RT: 12.19 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

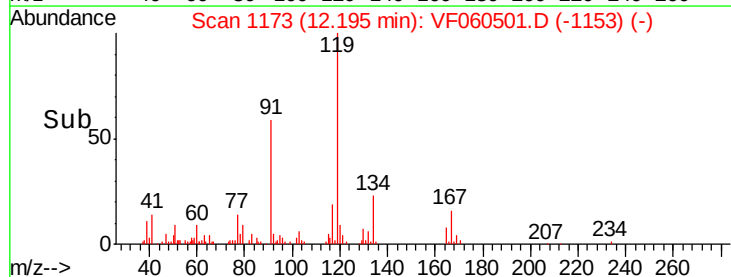
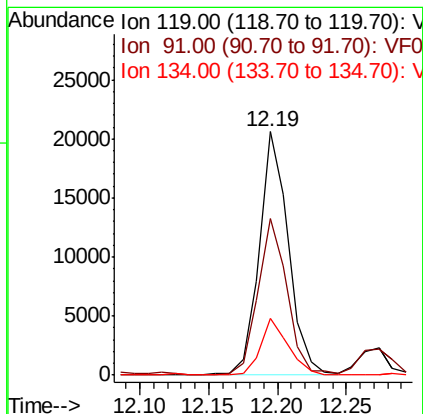
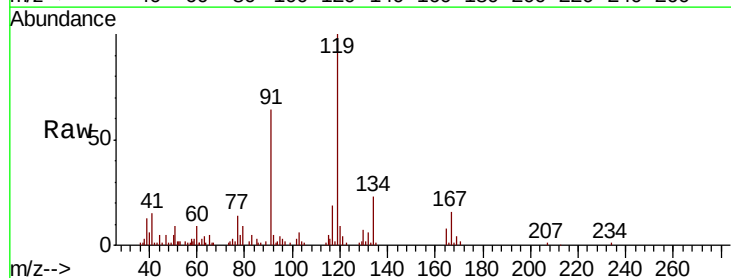
Tgt Ion: 119 Resp: 30389

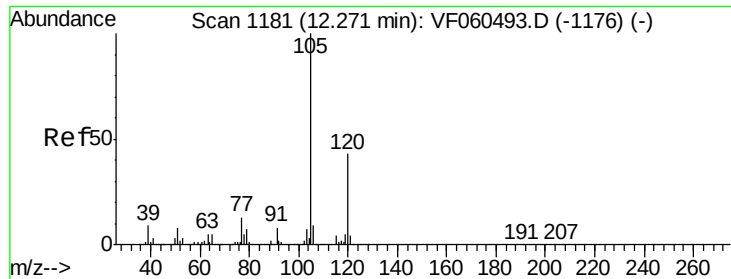
Ion Ratio Lower Upper

119 100

91 64.5 33.6 100.8

134 23.1 11.5 34.5





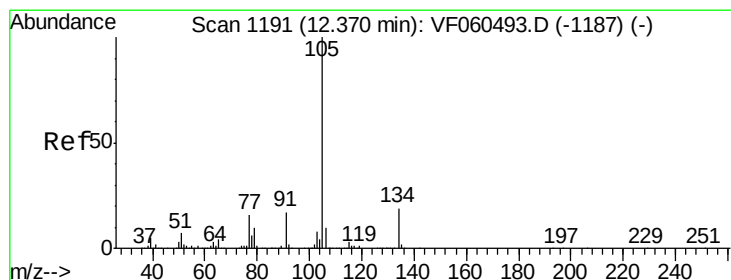
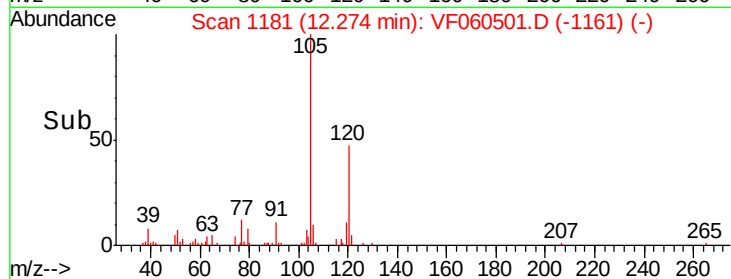
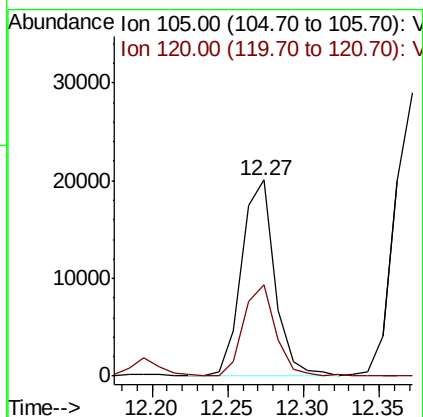
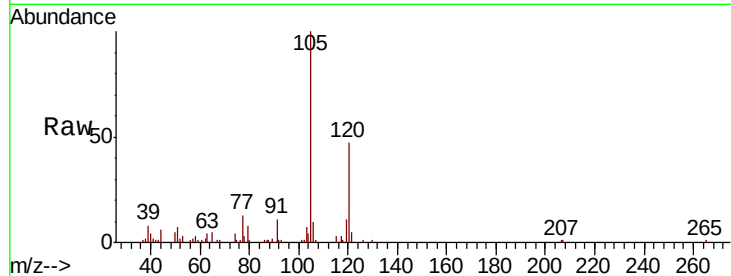
#84
 1,2,4-Trimethylbenzene
 Concen: 2.201 ug/l
 RT: 12.27 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	46.9	21.7	65.1

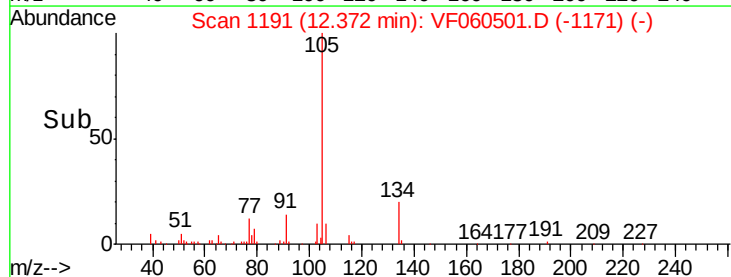
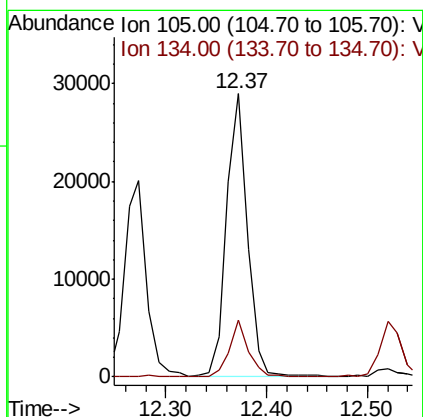
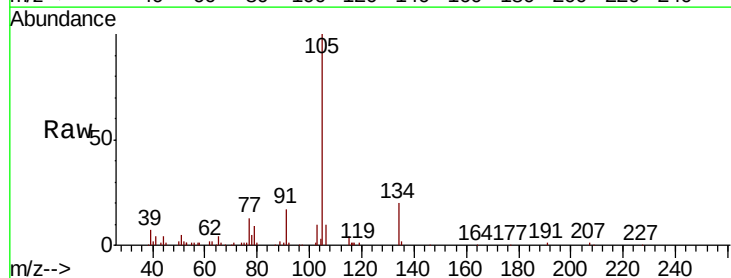
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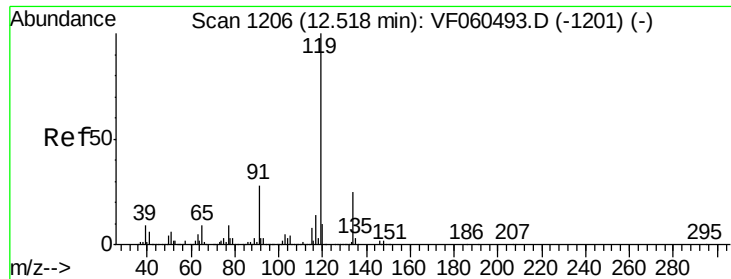
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#85
 sec-Butylbenzene
 Concen: 2.246 ug/l
 RT: 12.37 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.3	27.9





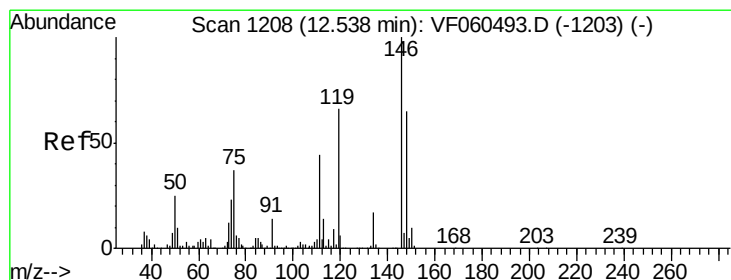
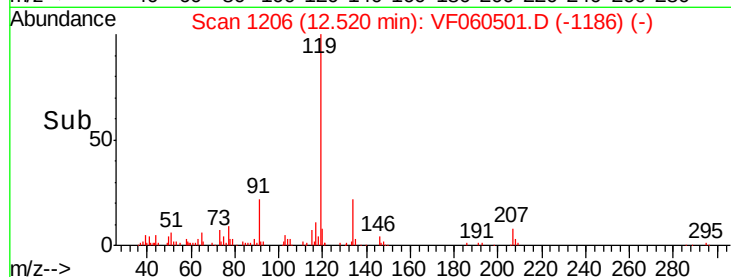
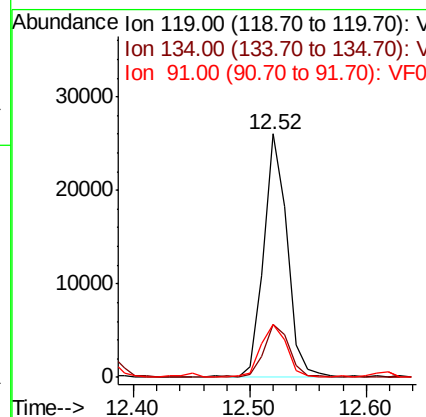
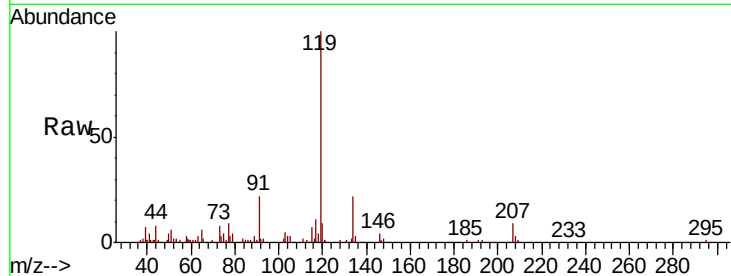
#86
 p-Isopropyltoluene
 Concen: 2.364 ug/l
 RT: 12.52 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	119	Resp:	36297
Ion Ratio	Lower	Upper	
119	100		
134	21.9	12.6	37.6
91	21.5	14.1	42.4

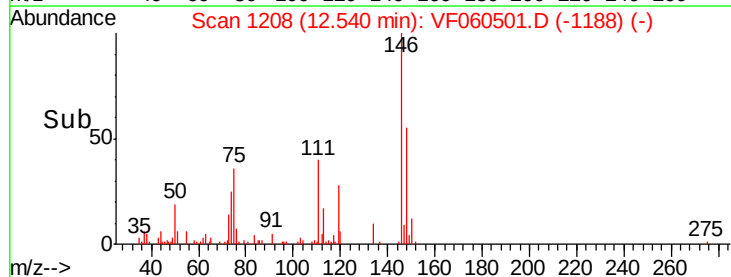
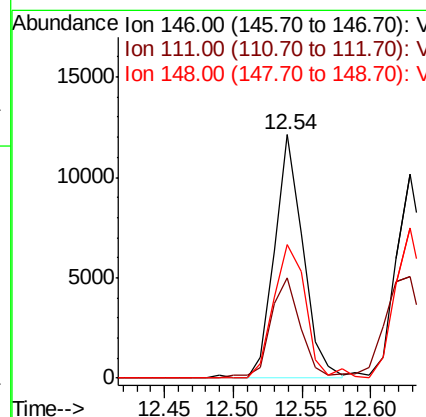
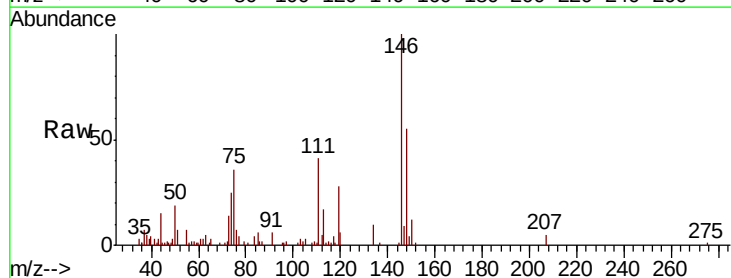
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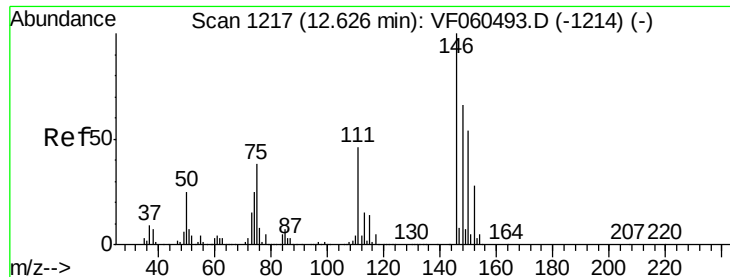
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#87
 1,3-Dichlorobenzene
 Concen: 2.516 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion:	146	Resp:	17409
Ion Ratio	Lower	Upper	
146	100		
111	41.3	22.2	66.6
148	54.6	32.7	98.1





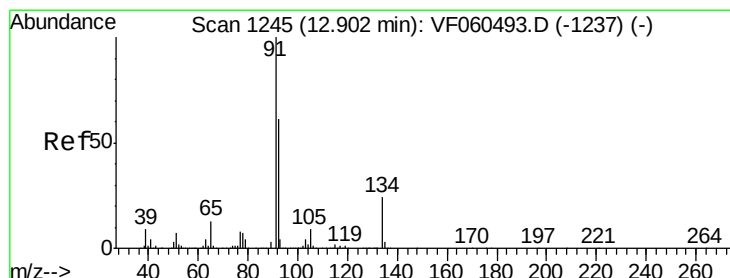
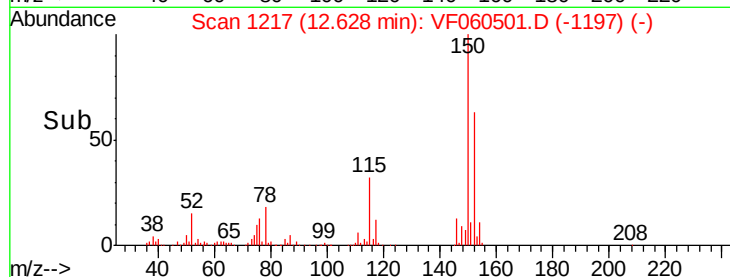
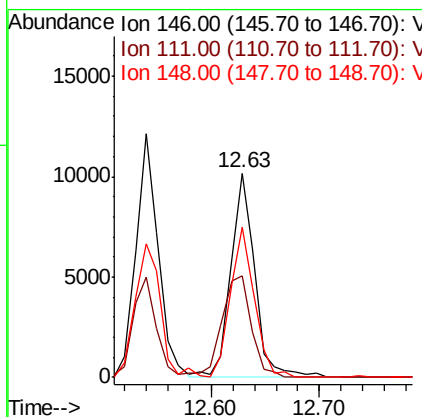
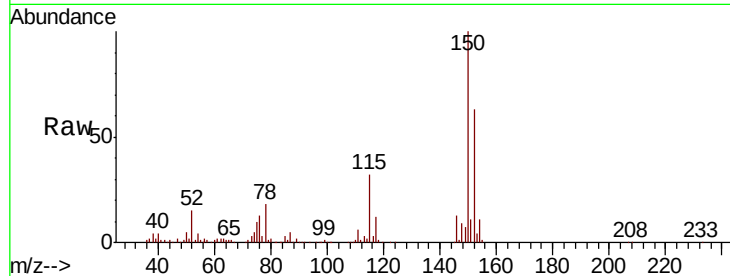
#88
 1,4-Dichlorobenzene
 Concen: 2.349 ug/l
 RT: 12.63 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.7	23.2	69.6
148	73.4	33.3	99.9

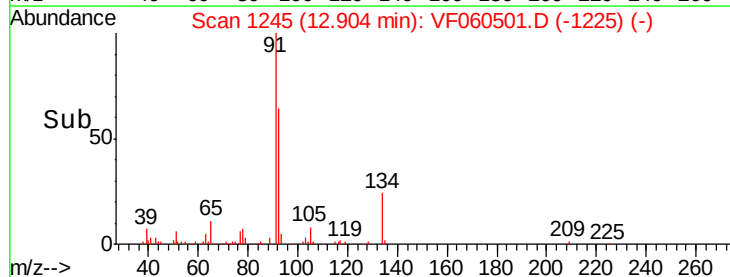
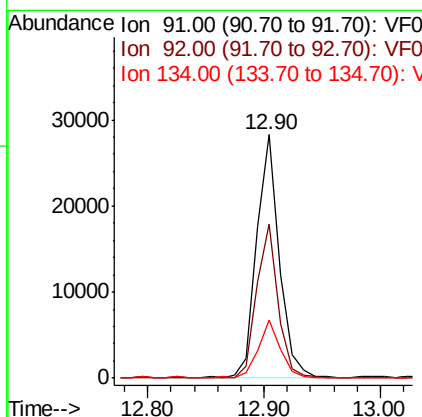
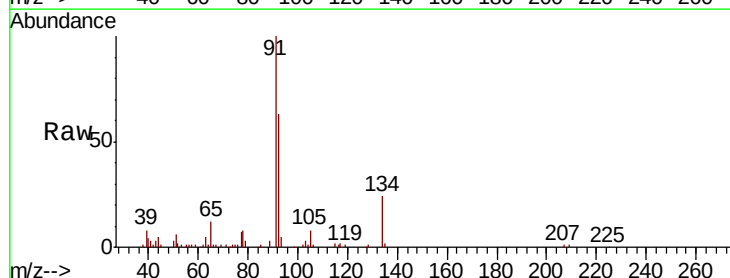
Manual Integrations
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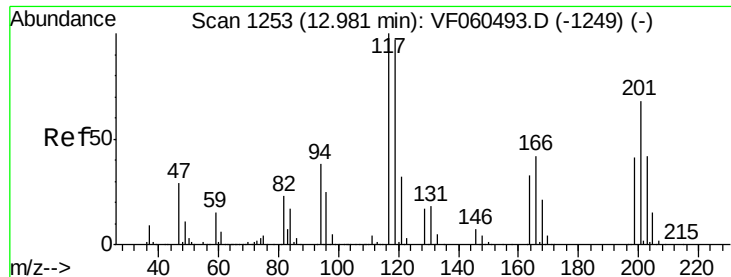
apatel
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#89
 n-Butylbenzene
 Concen: 2.387 ug/l
 RT: 12.90 min Scan# 1245
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.4	30.8	92.3
134	24.0	12.1	36.3





#90

Hexachloroethane

Concen: 2.262 ug/l

RT: 12.97 min Scan# 1252

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:117 Resp: 8302

Ion Ratio Lower Upper

117 100

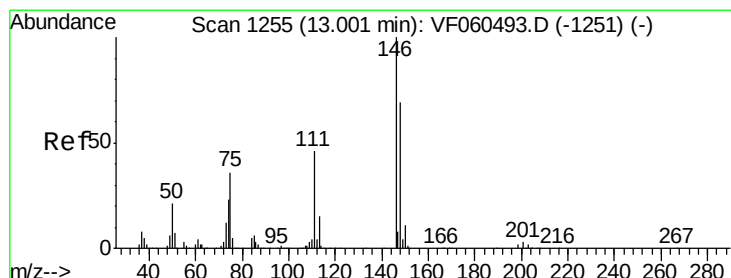
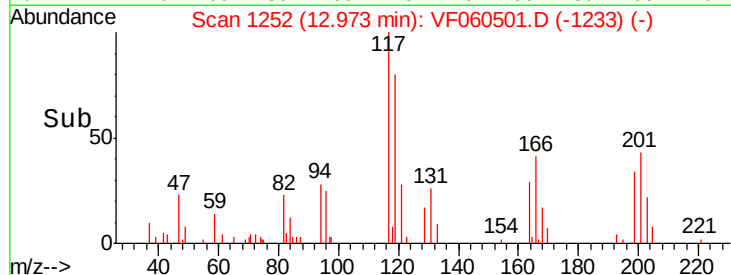
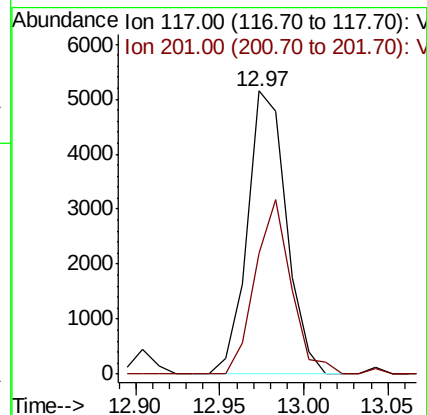
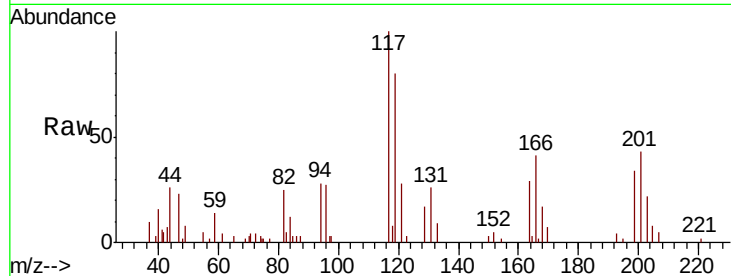
201 42.7 34.0 102.0

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#91

1,2-Dichlorobenzene

Concen: 2.488 ug/l

RT: 13.00 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

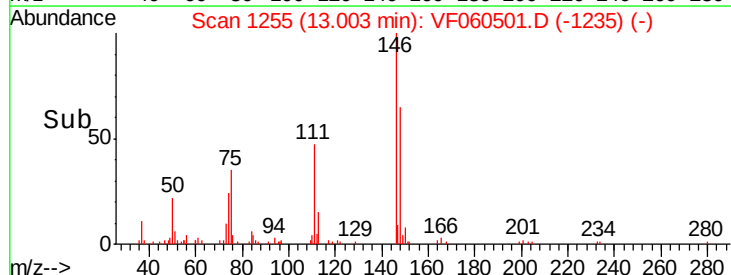
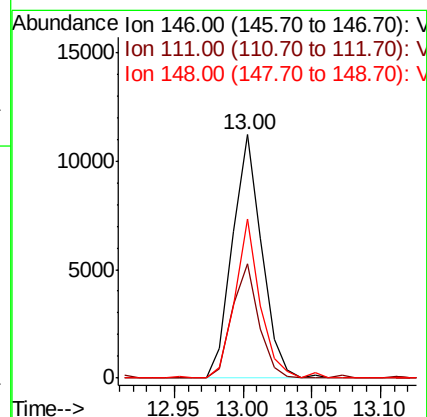
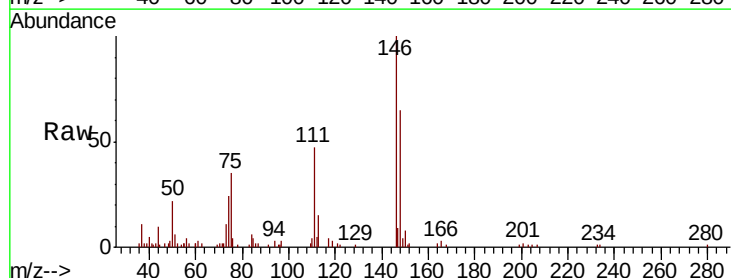
Tgt Ion:146 Resp: 16578

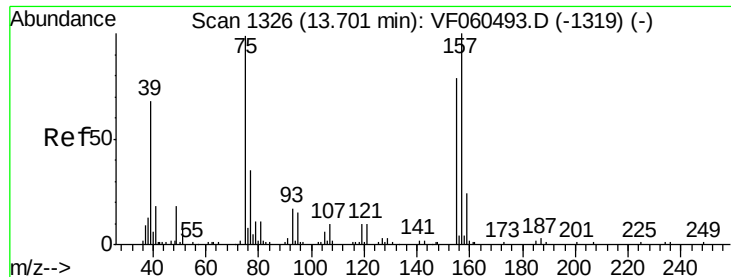
Ion Ratio Lower Upper

146 100

111 47.2 22.9 68.7

148 65.3 34.5 103.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.445 ug/l

RT: 13.70 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

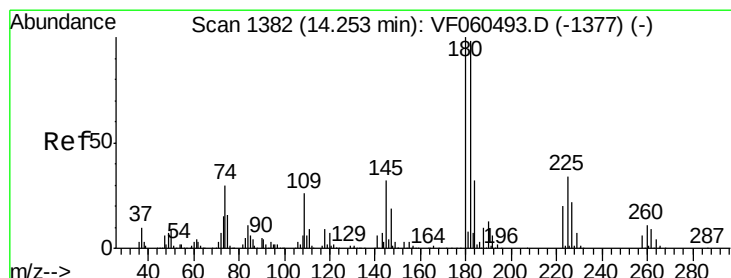
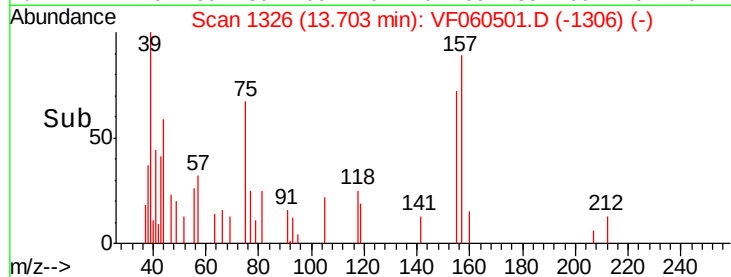
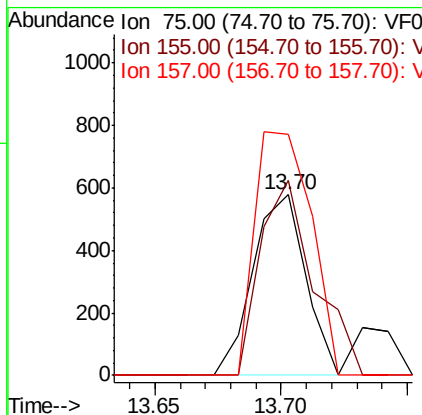
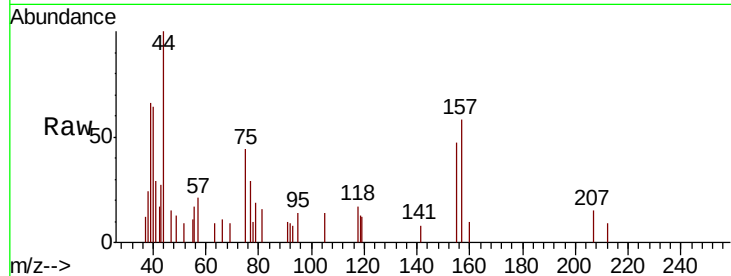
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	75	Resp:	843
Ion	Ratio	Lower	Upper
75	100		
155	107.6	40.6	121.7
157	133.2	50.8	152.5

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#93

1,2,4-Trichlorobenzene

Concen: 2.358 ug/l

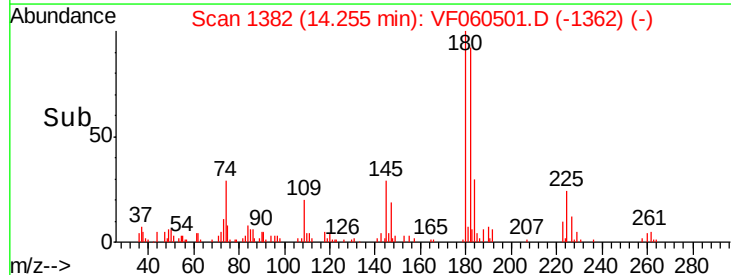
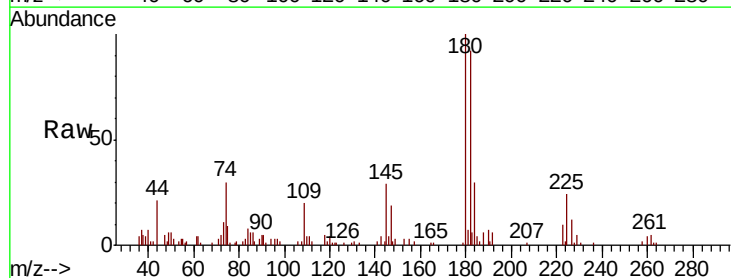
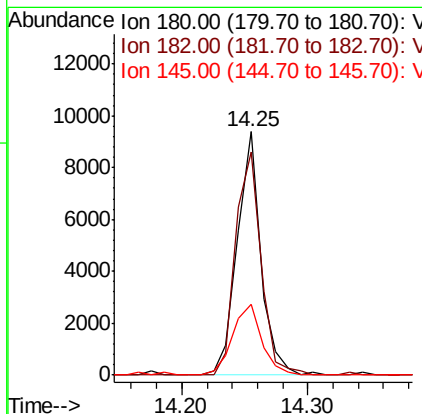
RT: 14.25 min Scan# 1382

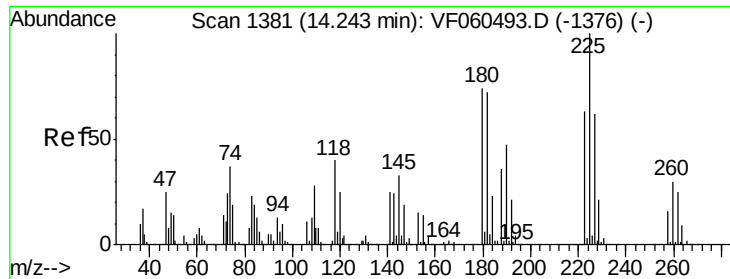
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	180	Resp:	12129
Ion	Ratio	Lower	Upper
180	100		
182	91.8	48.9	146.8
145	29.0	16.2	48.5





#94

Hexachlorobutadiene

Concen: 2.061 ug/l

RT: 14.24 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

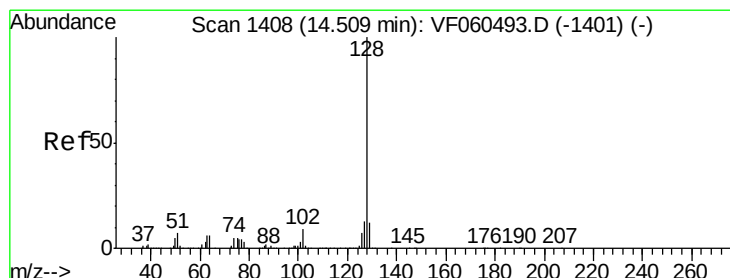
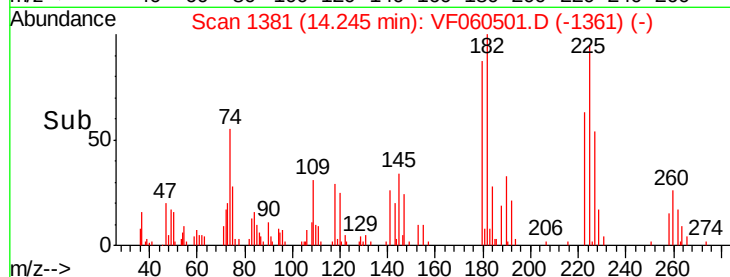
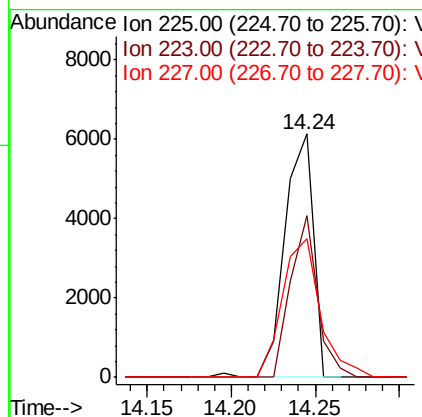
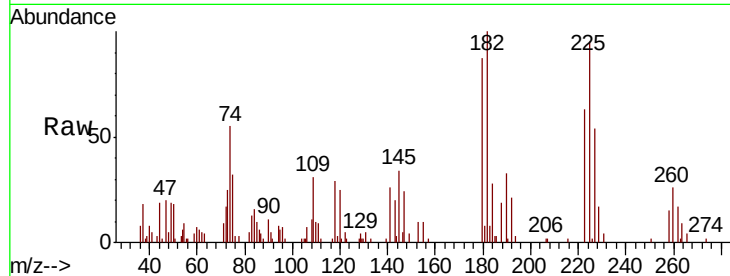
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion:	225	Resp:	7210
Ion Ratio	Lower	Upper	
225	100		
223	66.4	31.4	94.2
227	56.8	30.9	92.7

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#95

Naphthalene

Concen: 3.919 ug/l

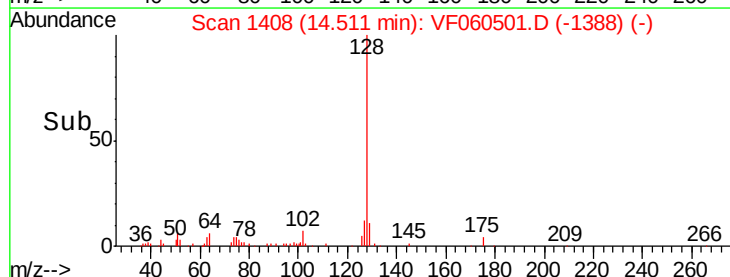
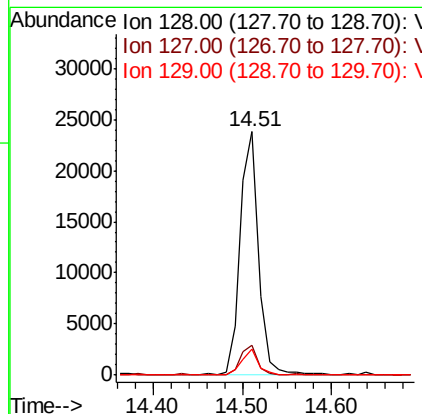
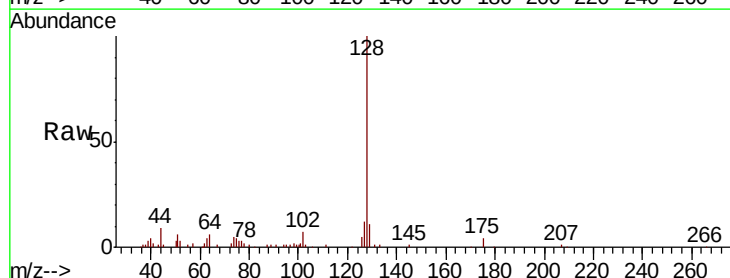
RT: 14.51 min Scan# 1408

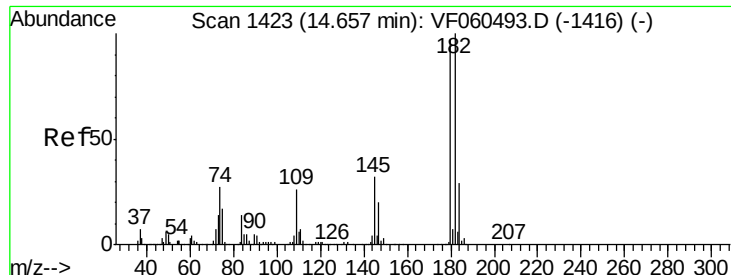
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	128	Resp:	34656
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.2	15.2
129	10.6	9.2	13.8





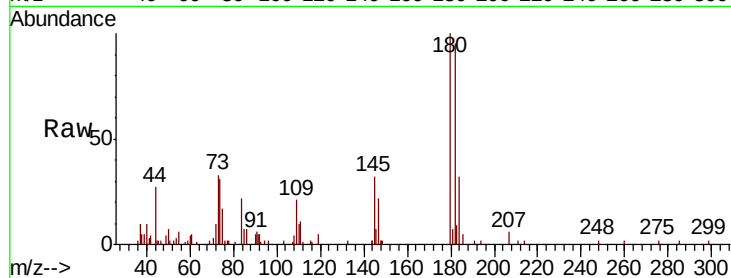
#96
 1,2,3-Trichlorobenzene
 Concen: 2.477 ug/l
 RT: 14.65 min Scan# 1422
 Delta R.T. -0.01 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.2	51.3	153.9	
145	32.5	16.4	49.2	

Manual Integrations
 APPROVED

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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

