

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100918\
 Data File : VF060502.D
 Acq On : 9 Oct 2018 21:29
 Operator : VA/AP
 Sample : J5164-02L00
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Manual Integrations
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 10/10/2018 12:34:23 PM

Quant Time: Oct 10 09:11:18 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	254249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.73	114	417586	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	334061	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	201089	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	214057	55.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.04%	
35) Dibromofluoromethane	4.26	113	207336	53.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.88%	
50) Toluene-d8	7.68	98	452068	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
62) 4-Bromofluorobenzene	11.49	95	203086	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	61560	10.227	ug/l	95
3) Chloromethane	1.14	50	34128	11.042	ug/l	96
4) Vinyl Chloride	1.17	62	37205	11.097	ug/l	98
5) Bromomethane	1.35	94	31338	11.886	ug/l	84
6) Chloroethane	1.42	64	19407	10.950	ug/l	92
7) Trichlorofluoromethane	1.54	101	79206	10.540	ug/l	90
8) Diethyl Ether	1.69	74	11525	10.718	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	1.87	101	40472	10.767	ug/l	93
10) Methyl Iodide	1.94	142	63054	10.580	ug/l #	90
11) Tert butyl alcohol	2.67	59	13334	65.997	ug/l #	82
12) 1,1-Dichloroethene	1.85	96	33137	10.553	ug/l #	74
13) Acrolein	2.07	56	8395	57.146	ug/l #	81
14) Allyl chloride	2.17	41	51341	11.092	ug/l	93
15) Acrylonitrile	3.05	53	21494	50.533	ug/l #	82
16) Acetone	2.32	43	53269	44.176	ug/l #	90
17) Carbon Disulfide	1.88	76	92767	10.624	ug/l #	90
18) Methyl Acetate	2.44	43	17639	10.413	ug/l	98
19) Methyl tert-butyl Ether	2.53	73	78909	11.164	ug/l	97
20) Methylene Chloride	2.30	84	38331m	13.069	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	33435	11.408	ug/l	95
22) Diisopropyl ether	2.90	45	108098	11.362	ug/l #	93
23) Vinyl Acetate	3.30	43	177318	53.240	ug/l	100
24) 1,1-Dichloroethane	2.97	63	63727	9.981	ug/l	98
25) 2-Butanone	4.48	43	54817	59.602	ug/l	92
26) 2,2-Dichloropropane	3.73	77	36192	10.872	ug/l	89
27) cis-1,2-Dichloroethene	3.60	96	33851	9.895	ug/l	80
28) Bromochloromethane	3.86	49	23672	10.674	ug/l	96
29) Tetrahydrofuran	4.23	42	22527	58.103	ug/l	93
30) Chloroform	4.00	83	84007	11.370	ug/l	90
31) Cyclohexane	3.84	56	43545	10.661	ug/l #	81
32) 1,1,1-Trichloroethane	4.24	97	64891	11.148	ug/l	92
36) 1,1-Dichloropropene	4.42	75	54226	11.164	ug/l	92
37) Ethyl Acetate	4.26	43	21927	12.780	ug/l #	66
38) Carbon Tetrachloride	4.13	117	69466	14.237	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.59	83	52004	11.371	ug/l	93
40) Benzene	4.77	78	108169	10.846	ug/l	96
41) Methacrylonitrile	4.89	41	9971	10.228	ug/l	89
42) 1,2-Dichloroethane	5.08	62	49256	10.887	ug/l	100
43) Isopropyl Acetate	7.08	43	20816	9.735	ug/l #	97
44) Trichloroethene	5.64	130	33574	10.807	ug/l	94
45) 1,2-Dichloropropane	6.37	63	26619	10.904	ug/l #	83
46) Dibromomethane	6.22	93	19873	10.148	ug/l	92
47) Bromodichloromethane	6.52	83	53708	10.859	ug/l	96
48) Methyl methacrylate	6.84	41	16100	11.115	ug/l	92
49) 1,4-Dioxane	6.84	88	2636	167.580	ug/l #	82
51) 4-Methyl-2-Pentanone	8.38	43	81155	54.405	ug/l	100
52) Toluene	7.75	92	60942	9.703	ug/l	93
53) t-1,3-Dichloropropene	8.40	75	39743	10.347	ug/l	98
54) cis-1,3-Dichloropropene	7.42	75	46594	10.415	ug/l	95
55) 1,1,2-Trichloroethane	8.62	97	18448	9.557	ug/l	89
56) Ethyl methacrylate	8.74	69	20594	9.221	ug/l	95
57) 1,3-Dichloropropane	8.97	76	33734	10.149	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.75	63	11914	52.495	ug/l	100
59) 2-Hexanone	9.60	43	58472	54.191	ug/l	100
60) Dibromochloromethane	8.83	129	29785	9.830	ug/l	96
61) 1,2-Dibromoethane	9.11	107	23214	10.643	ug/l	93
64) Tetrachloroethene	8.27	164	30520	11.527	ug/l	90
65) Chlorobenzene	9.91	112	73532	11.334	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.04	131	33776	11.558	ug/l	90
67) Ethyl Benzene	10.01	91	135674	11.084	ug/l	98
68) m/p-Xylenes	10.24	106	93775	22.443	ug/l	97
69) o-Xylene	10.81	106	49485	10.890	ug/l	91
70) Styrene	10.87	104	78577	12.013	ug/l	93
71) Bromoform	10.86	173	16800	11.339	ug/l #	91
73) Isopropylbenzene	11.21	105	162077	10.843	ug/l	97
74) N-amyl acetate	11.45	43	35370	10.871	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.76	83	27002	10.748	ug/l	92
76) 1,2,3-Trichloropropane	11.87	75	21532	11.086	ug/l	89
77) Bromobenzene	11.57	156	34561	10.404	ug/l	90
78) n-propylbenzene	11.67	91	200028	11.236	ug/l	96
79) 2-Chlorotoluene	11.79	91	111582	10.706	ug/l	95
80) 1,3,5-Trimethylbenzene	11.89	105	135476	10.804	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	13892	16.405	ug/l	92
82) 4-Chlorotoluene	11.97	91	116641	10.848	ug/l	98
83) tert-Butylbenzene	12.20	119	137817	10.933	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	138536	10.882	ug/l	100
85) sec-Butylbenzene	12.37	105	183449	10.730	ug/l	98
86) p-Isopropyltoluene	12.52	119	155575	11.085	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	73271	11.580	ug/l	95
88) 1,4-Dichlorobenzene	12.63	146	67583	11.014	ug/l	91
89) n-Butylbenzene	12.91	91	160332	10.917	ug/l	94
90) Hexachloroethane	12.97	117	35025	10.436	ug/l	82
91) 1,2-Dichlorobenzene	13.00	146	68263	11.207	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.69	75	5024	9.421	ug/l	84

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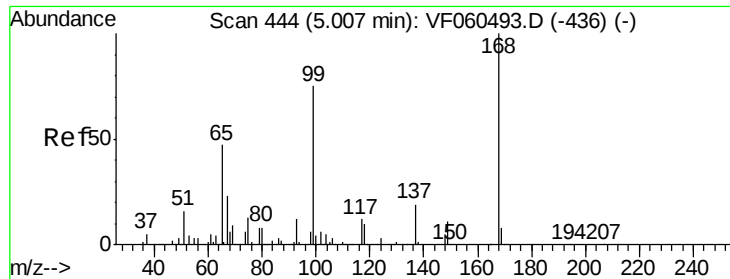
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	49546	10.533	ug/l	92
94) Hexachlorobutadiene	14.25	225	34119	10.669	ug/l	97
95) Naphthalene	14.51	128	85534	10.578	ug/l #	95
96) 1,2,3-Trichlorobenzene	14.65	180	47347	10.804	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: VF060502.D

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Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:168 Resp: 254249

Ion Ratio Lower Upper

168 100

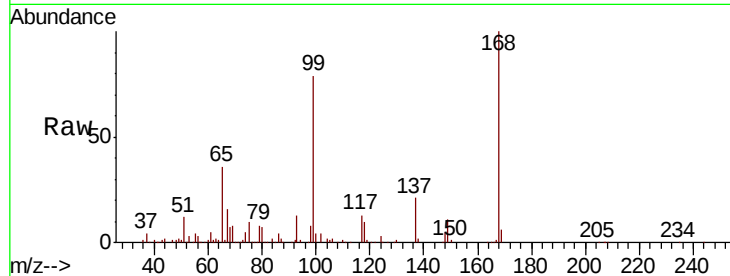
99 79.0 60.3 90.5

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Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

100000

80000

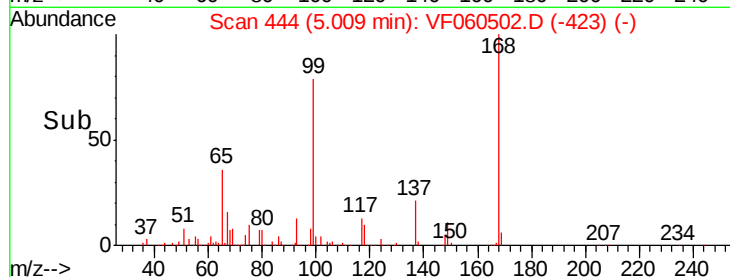
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40000

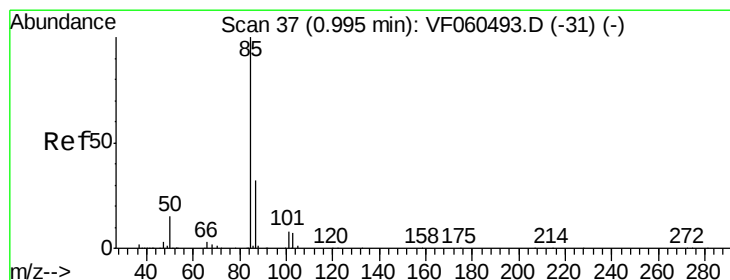
20000

0

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 10.227 ug/l

RT: 0.99 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060502.D

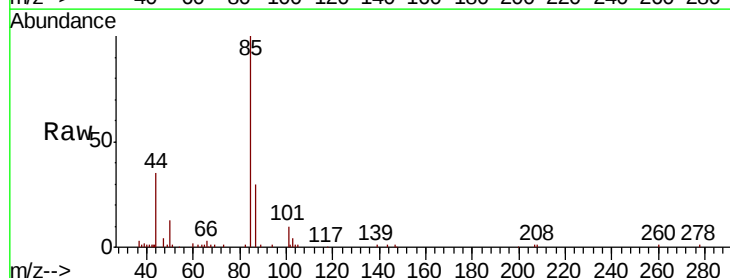
Acq: 9 Oct 2018 21:29

Tgt Ion: 85 Resp: 61560

Ion Ratio Lower Upper

85 100

87 29.6 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

25000

20000

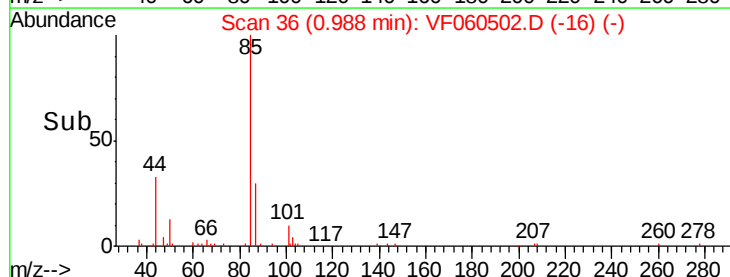
15000

10000

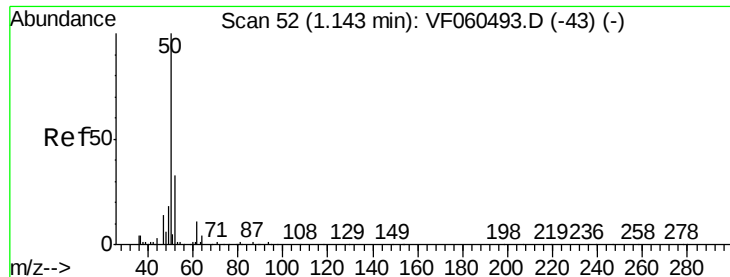
5000

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Time-->



Time-->



#3

Chloromethane

Concen: 11.042 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 50 Resp: 34128

Ion Ratio Lower Upper

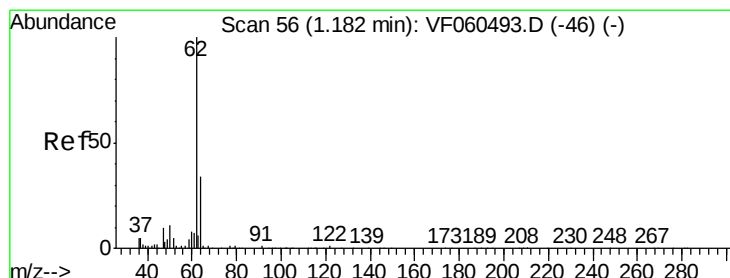
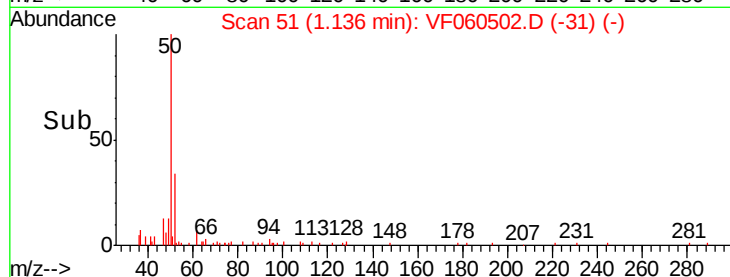
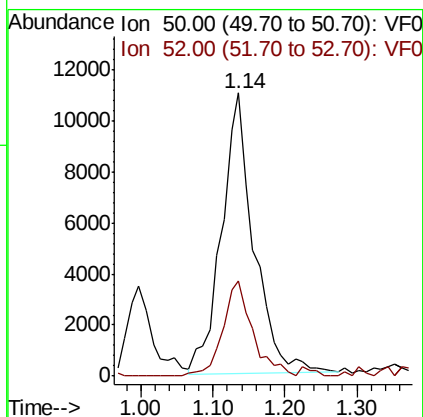
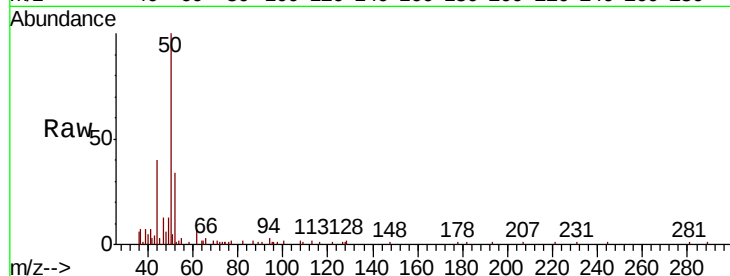
50 100

52 33.6 25.0 37.4

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#4

Vinyl Chloride

Concen: 11.097 ug/l

RT: 1.17 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF060502.D

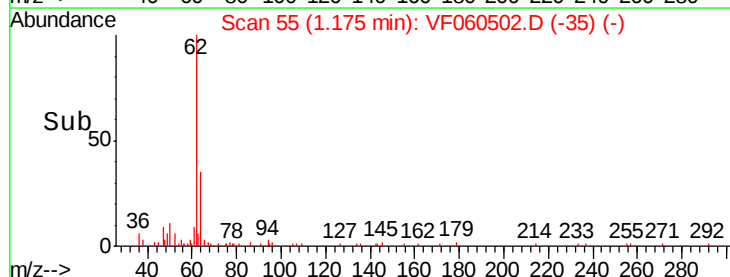
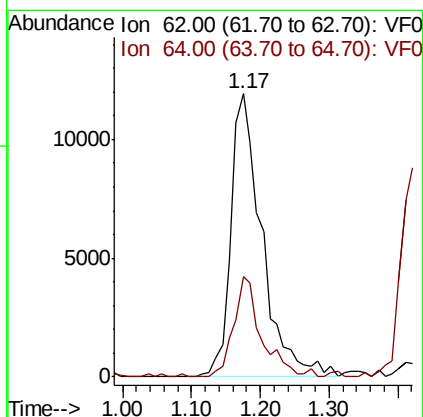
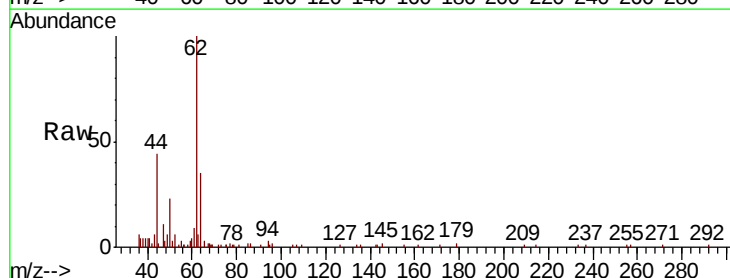
Acq: 9 Oct 2018 21:29

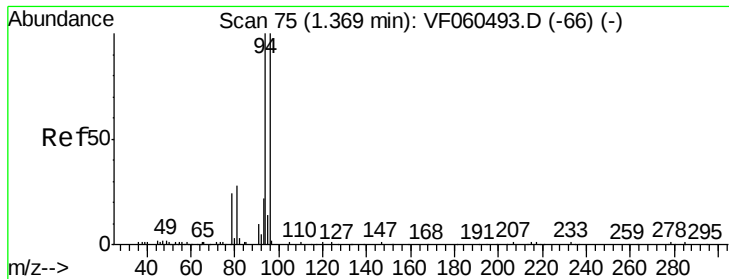
Tgt Ion: 62 Resp: 37205

Ion Ratio Lower Upper

62 100

64 35.4 27.5 41.3





#5

Bromomethane

Concen: 11.886 ug/l

RT: 1.35 min Scan# 73

Delta R.T. -0.02 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

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Tot Ion: 94 Resp: 31338

Ion Ratio Lower Upper

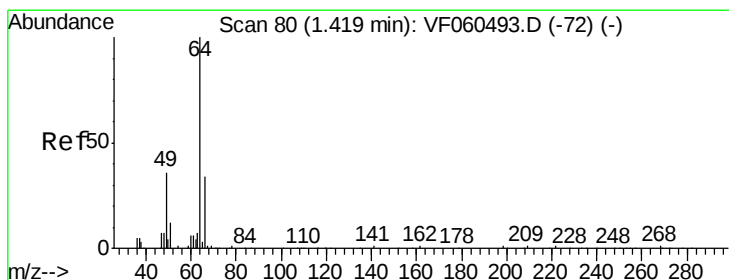
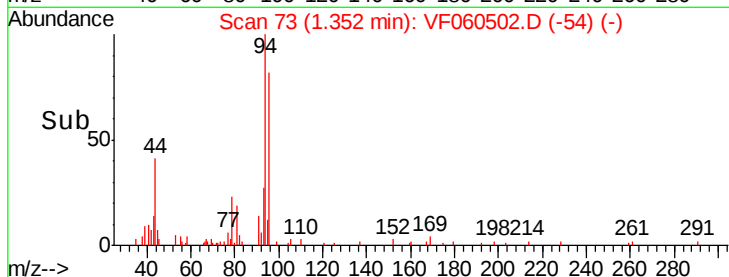
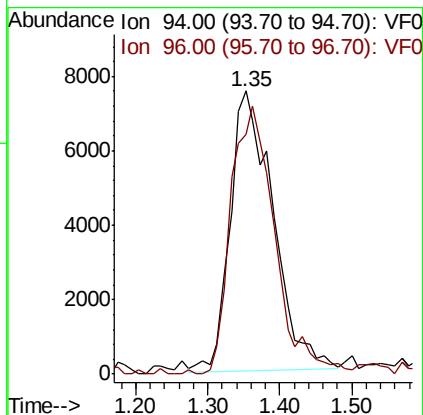
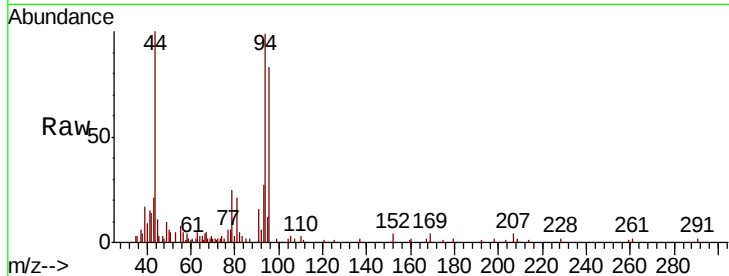
94 100

96 84.5 80.6 120.8

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#6

Chloroethane

Concen: 10.950 ug/l

RT: 1.42 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060502.D

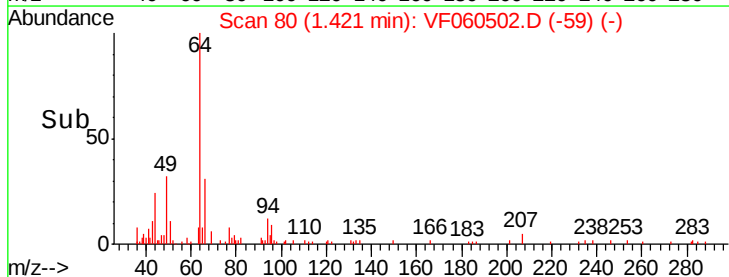
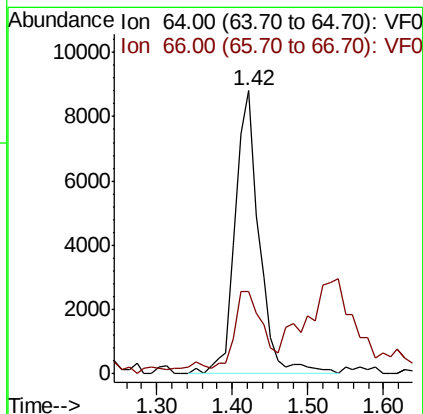
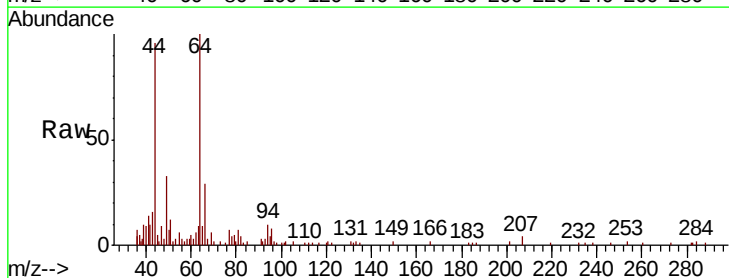
Acq: 9 Oct 2018 21:29

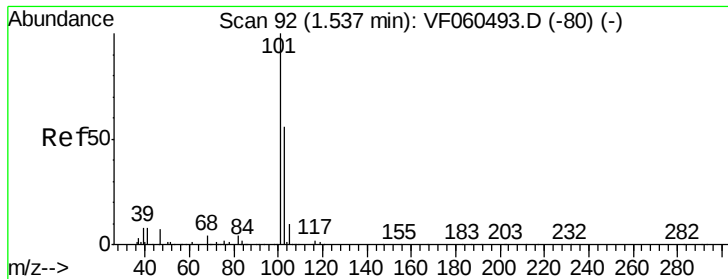
Tgt Ion: 64 Resp: 19407

Ion Ratio Lower Upper

64 100

66 29.0 27.0 40.6





#7

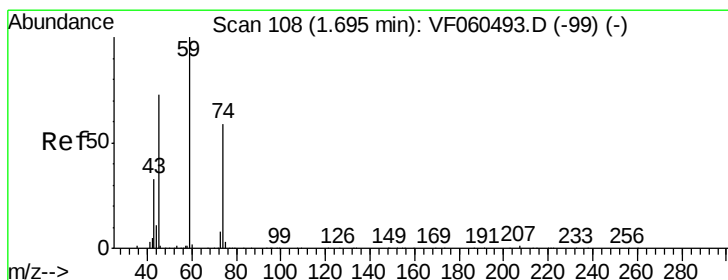
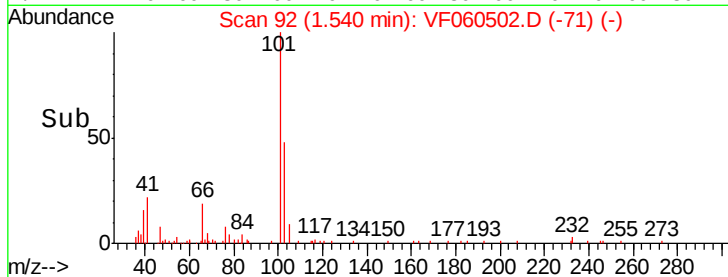
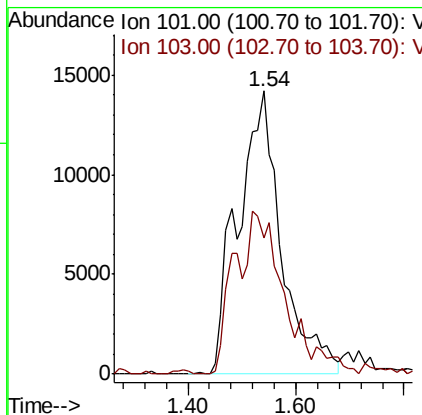
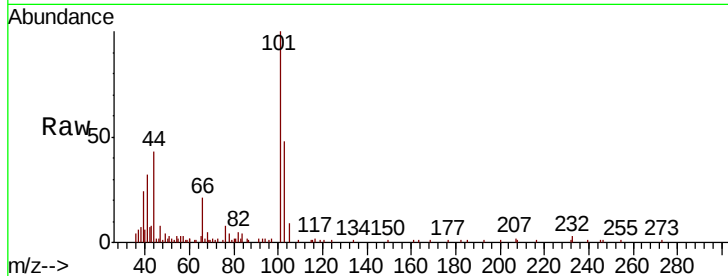
Trichlorofluoromethane
Concen: 10.540 ug/l
RT: 1.54 min Scan# 92
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

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LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
101	100		
103	48.2	44.6	66.8

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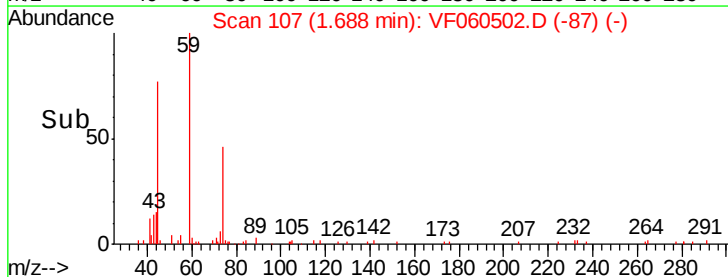
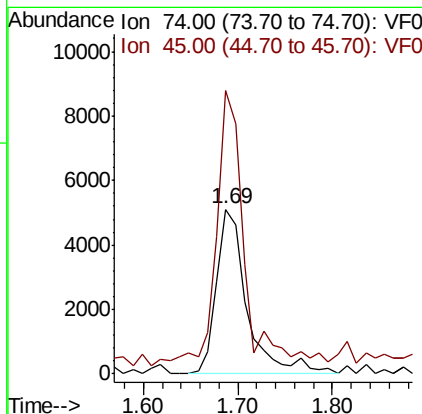
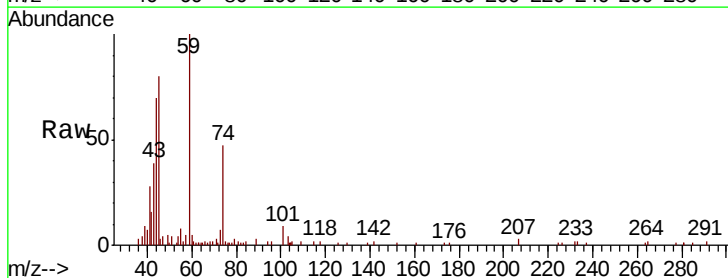
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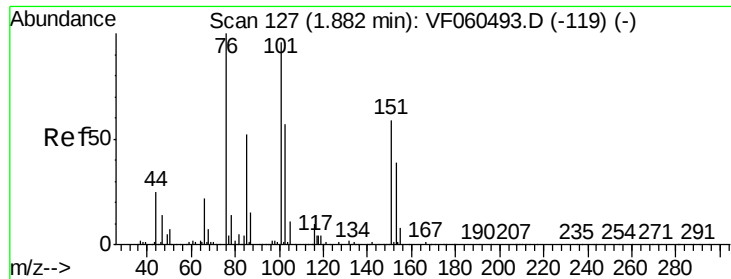


#8

Diethyl Ether
Concen: 10.718 ug/l
RT: 1.69 min Scan# 107
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	171.8	62.7	188.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.767 ug/l

RT: 1.87 min Scan# 126

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

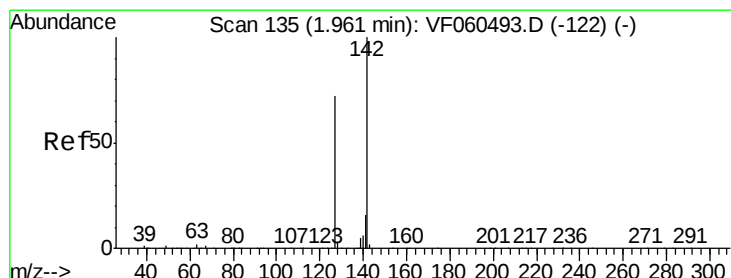
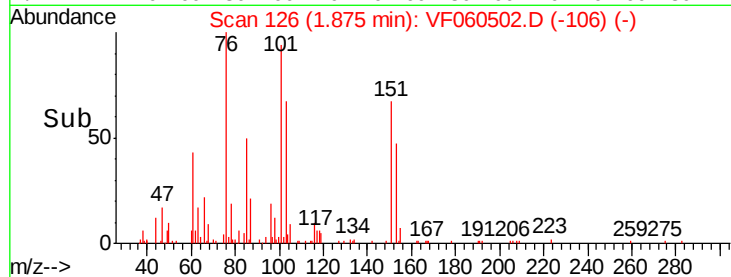
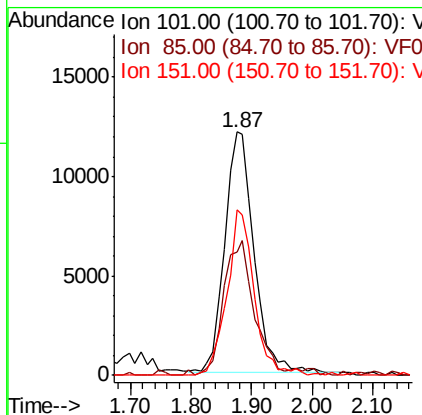
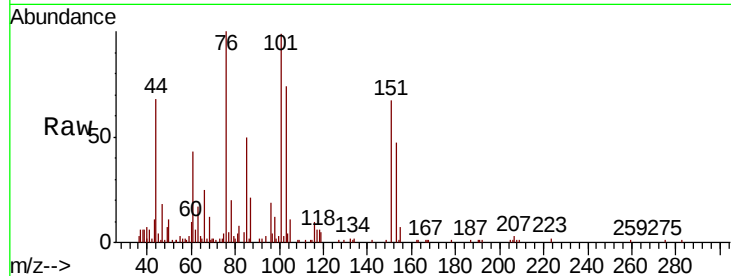
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	101	Resp:	40472
Ion Ratio	Lower	Upper	
101	100		
85	50.8	41.8	62.6
151	68.1	47.4	71.0

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#10

Methyl Iodide

Concen: 10.580 ug/l

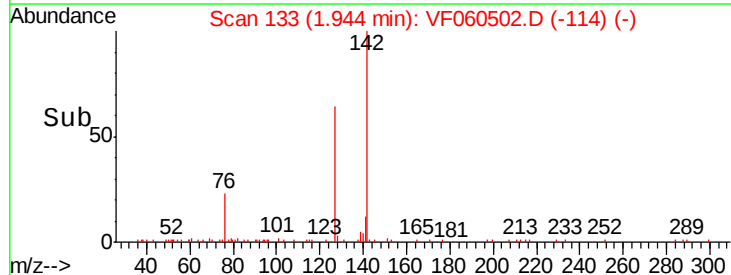
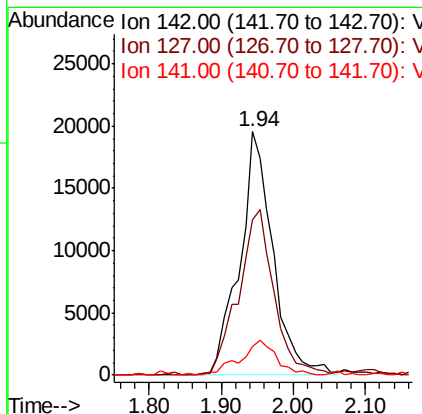
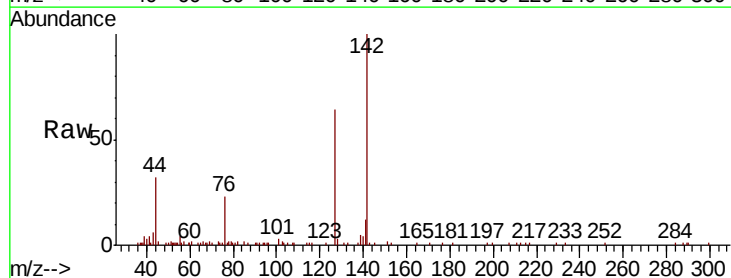
RT: 1.94 min Scan# 133

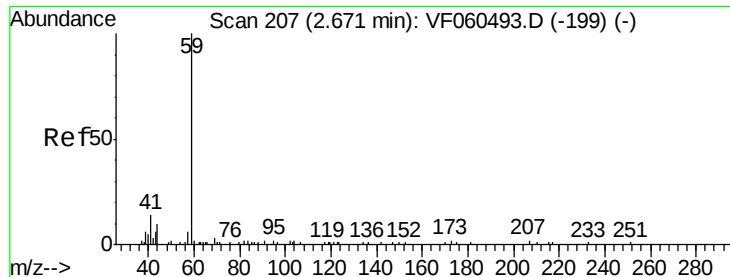
Delta R.T. -0.02 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	142	Resp:	63054
Ion Ratio	Lower	Upper	
142	100		
127	63.9	57.9	86.9
141	11.6	12.7	19.1#





#11

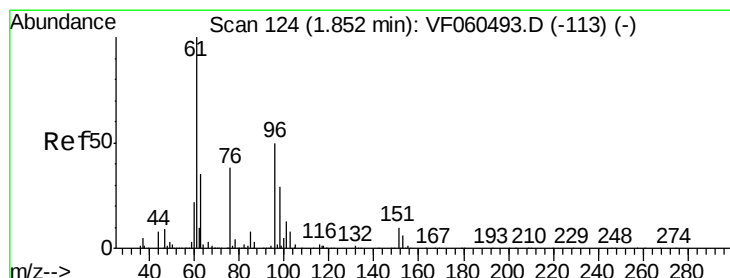
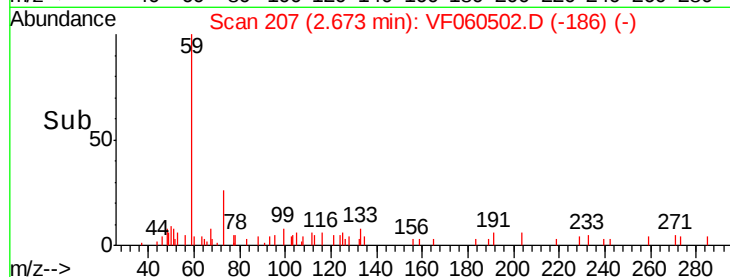
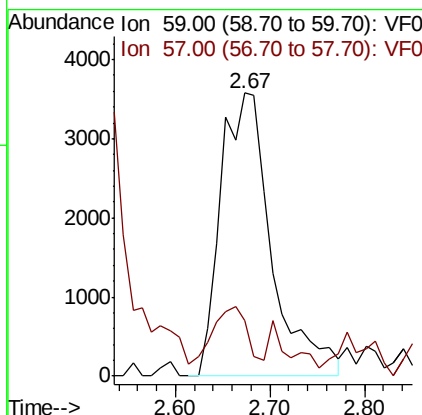
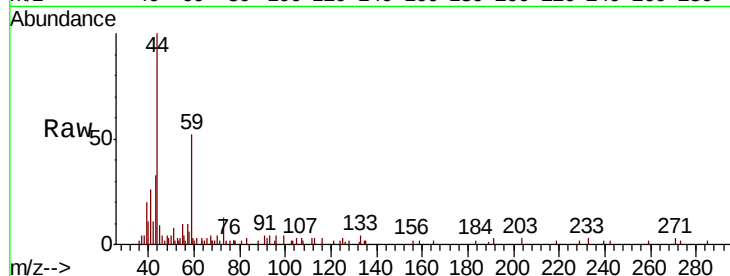
Tert butyl alcohol
Concen: 65.997 ug/l
RT: 2.67 min Scan# 207
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
59	100		
57	19.7	10.2	15.2#

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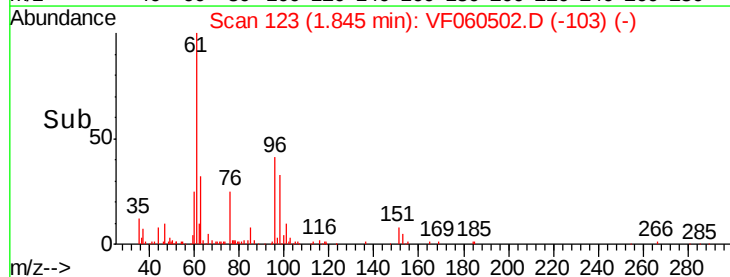
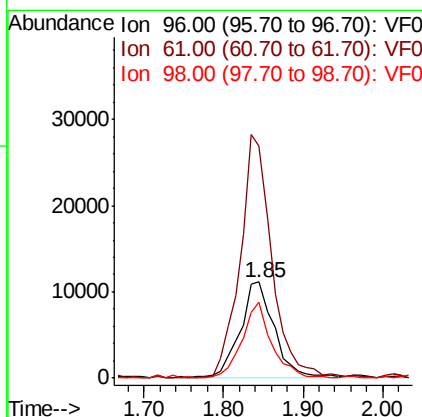
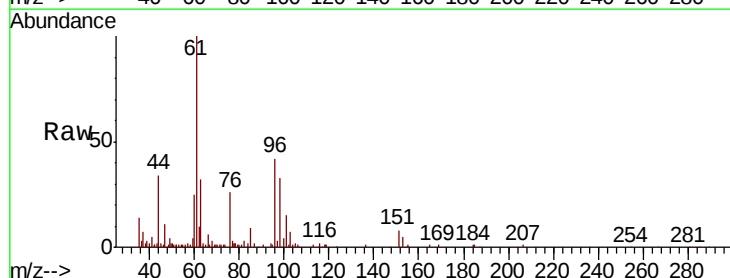
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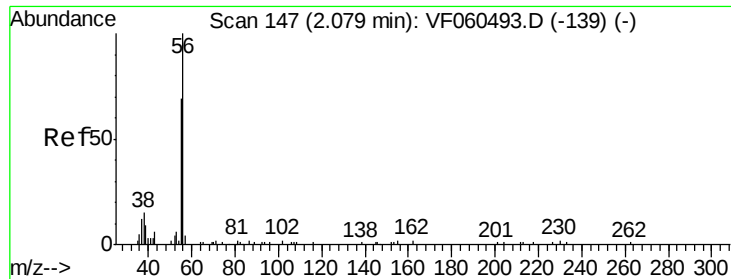


#12

1,1-Dichloroethene
Concen: 10.553 ug/l
RT: 1.85 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	240.9	161.9	242.9
98	79.3	47.4	71.2#





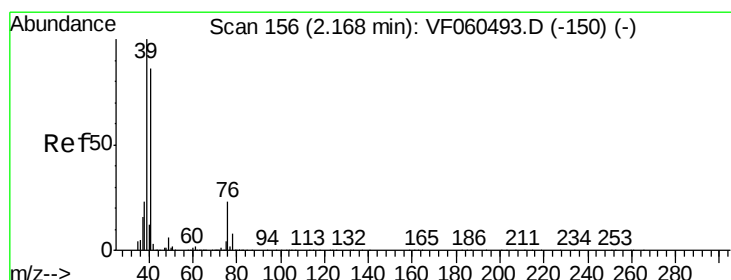
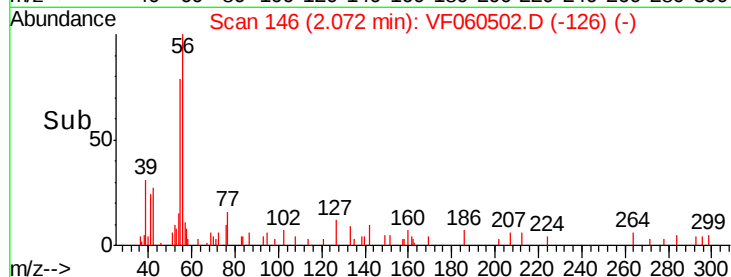
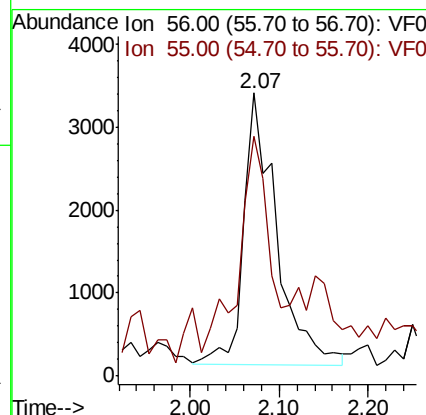
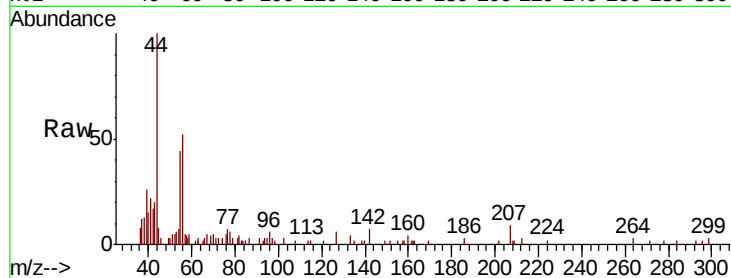
#13
Acrolein
Concen: 57.146 ug/l
RT: 2.07 min Scan# 146
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
56	100		
55	84.5	55.3	82.9#

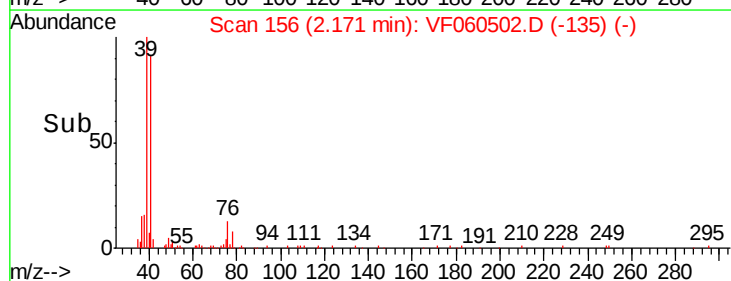
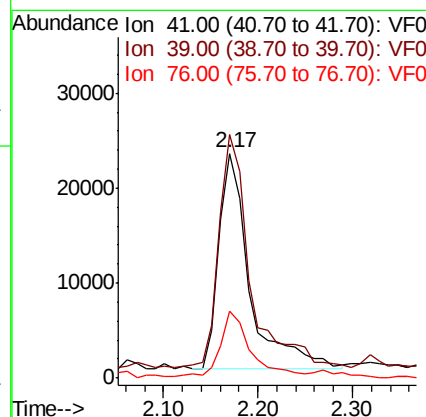
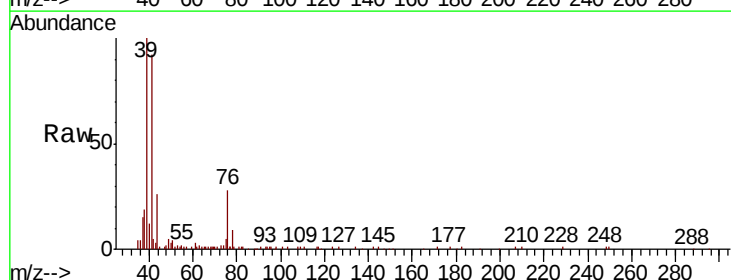
Manual Integrations
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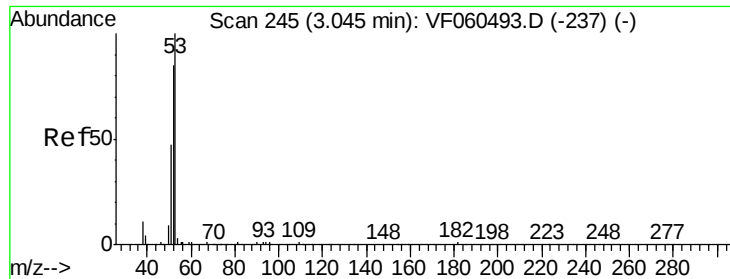
apatel
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#14
Allyl chloride
Concen: 11.092 ug/l
RT: 2.17 min Scan# 156
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
41	100		
39	108.3	93.1	139.7
76	29.9	21.6	32.4





#15

Acrylonitrile

Concen: 50.533 ug/l

RT: 3.05 min Scan# 245

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

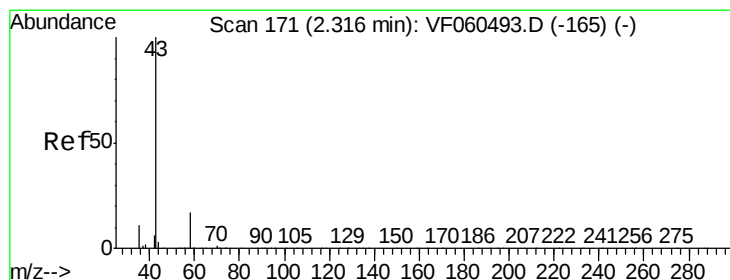
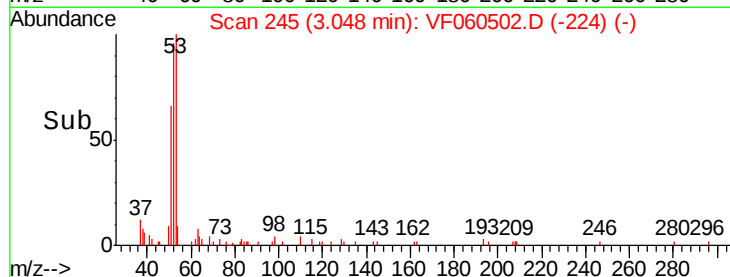
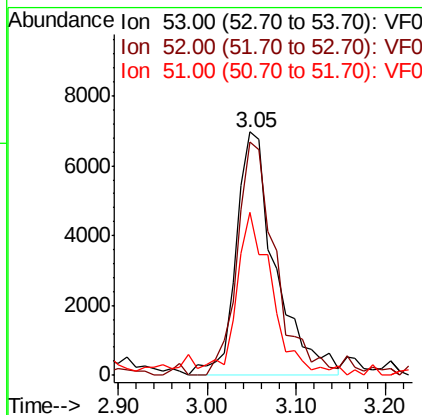
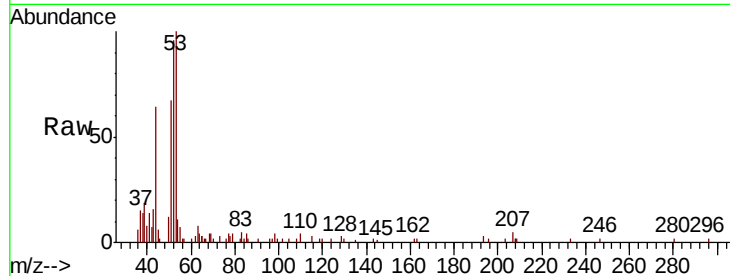
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	53	Resp:	21494
Ion Ratio	Lower	Upper	
53	100		
52	95.7	67.5	101.3
51	67.0	38.2	57.4#

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#16

Acetone

Concen: 44.176 ug/l

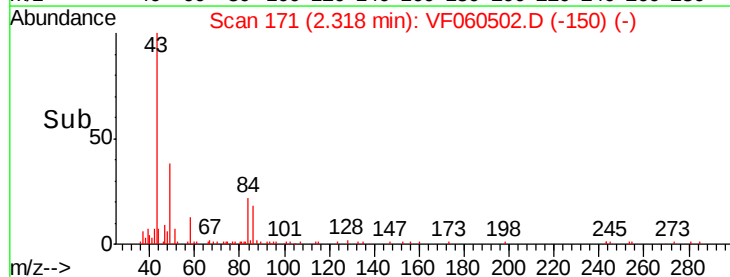
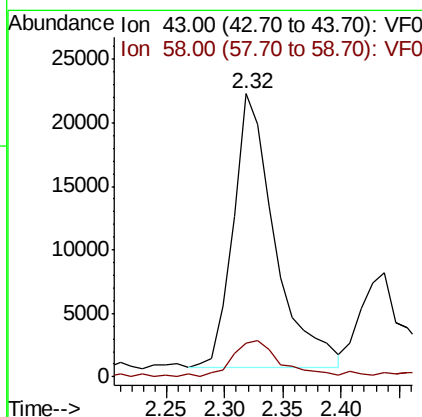
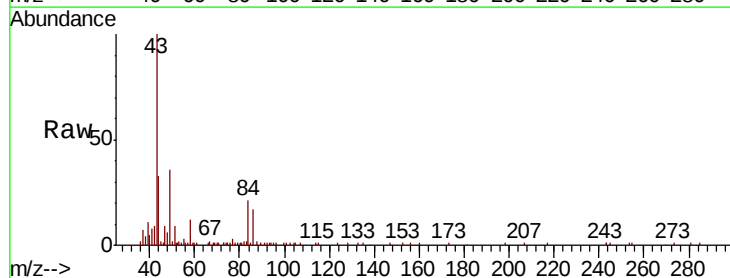
RT: 2.32 min Scan# 171

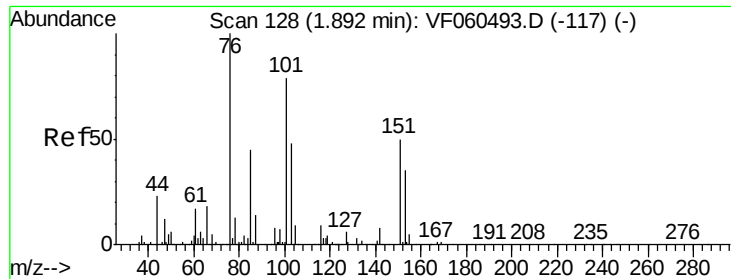
Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	43	Resp:	53269
Ion Ratio	Lower	Upper	
43	100		
58	12.1	13.2	19.8#





#17

Carbon Disulfide

Concen: 10.624 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 76 Resp: 92767

Ion Ratio Lower Upper

76 100

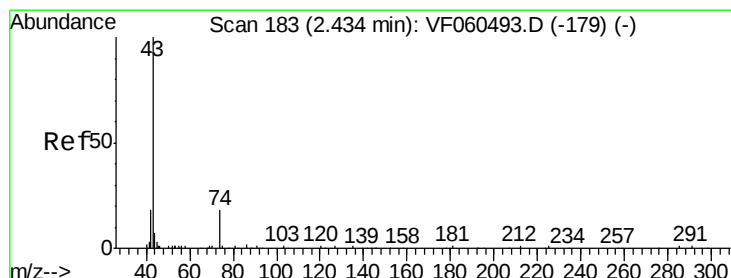
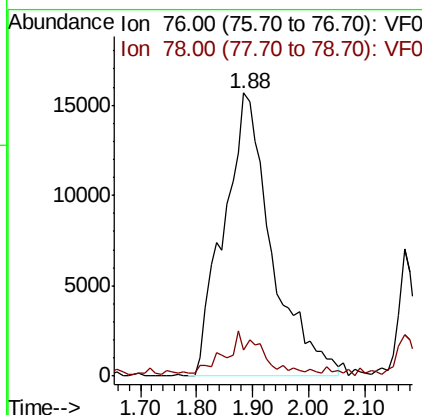
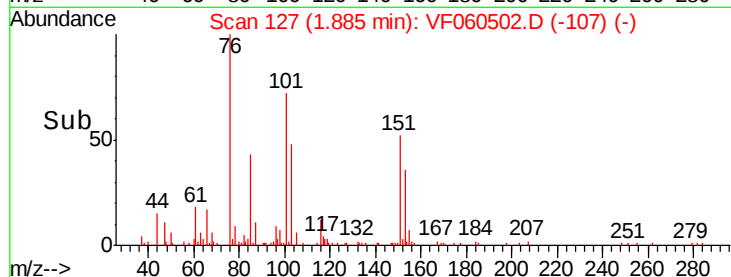
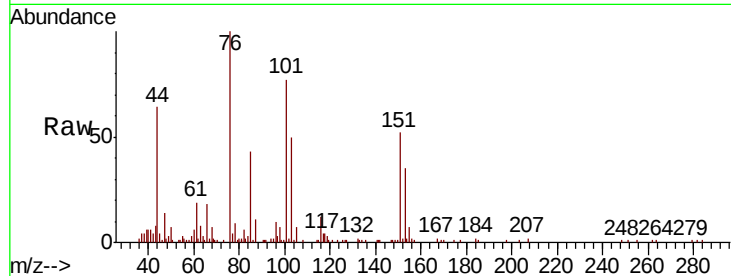
78 9.1 10.5 15.7#

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#18

Methyl Acetate

Concen: 10.413 ug/l

RT: 2.44 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF060502.D

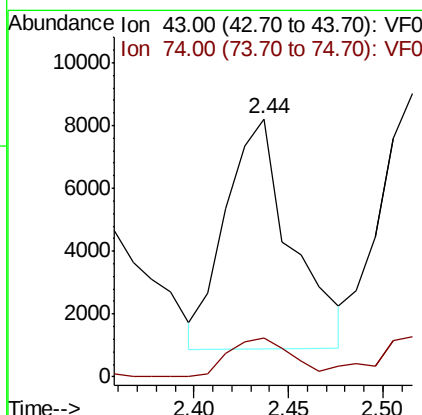
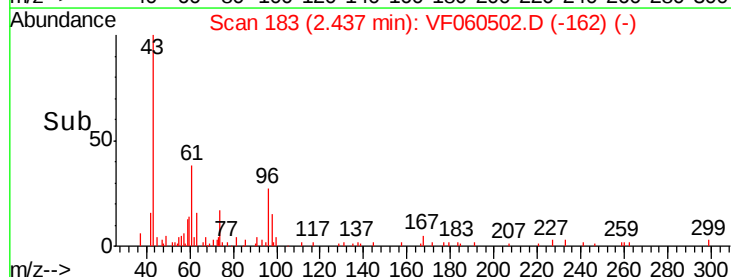
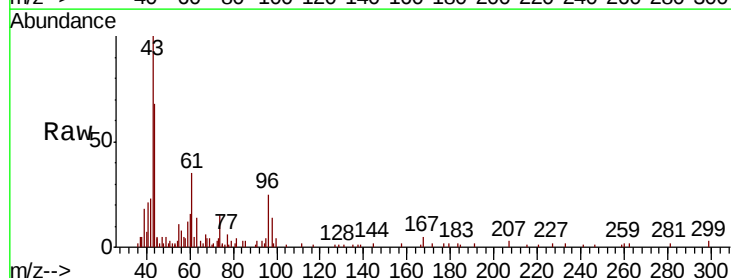
Acq: 9 Oct 2018 21:29

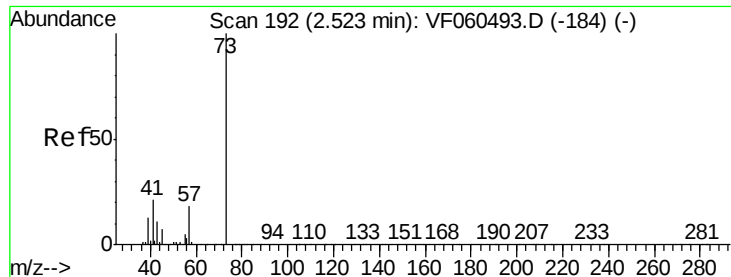
Tgt Ion: 43 Resp: 17639

Ion Ratio Lower Upper

43 100

74 15.2 12.9 19.3





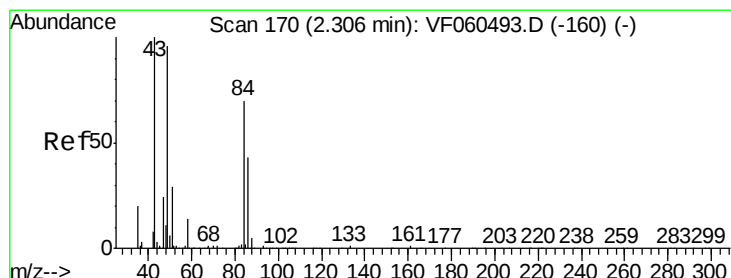
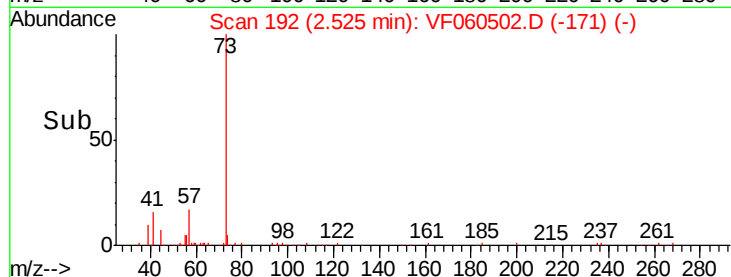
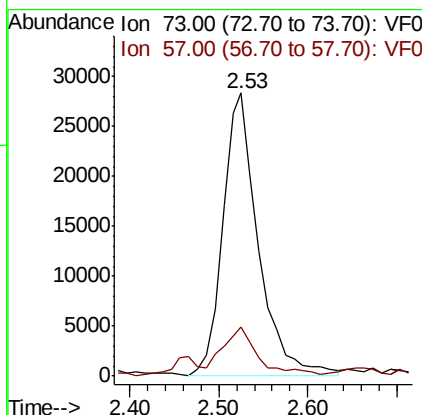
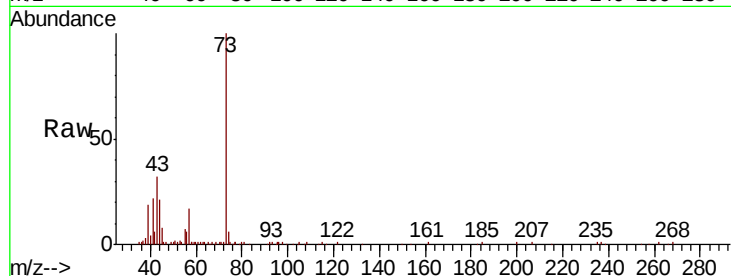
#19
Methyl tert-butyl Ether
Concen: 11.164 ug/l
RT: 2.53 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.4	15.0	22.6

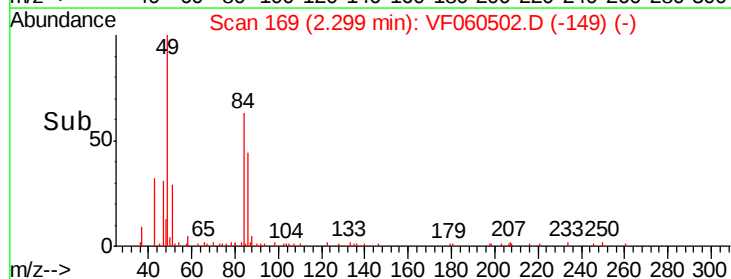
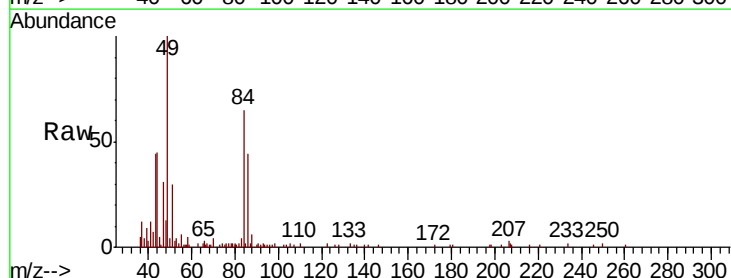
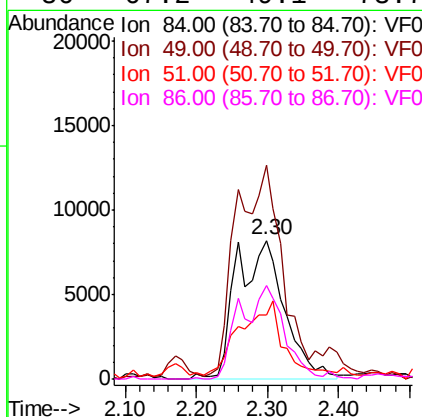
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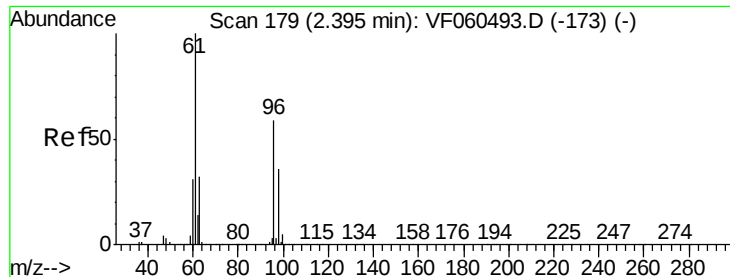
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#20
Methylene Chloride
Concen: 13.069 ug/l m
RT: 2.30 min Scan# 169
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
84	100		
49	154.4	111.5	167.3
51	46.3	34.6	52.0
86	67.2	49.1	73.7





#21

trans-1,2-Dichloroethene

Concen: 11.408 ug/l

RT: 2.40 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

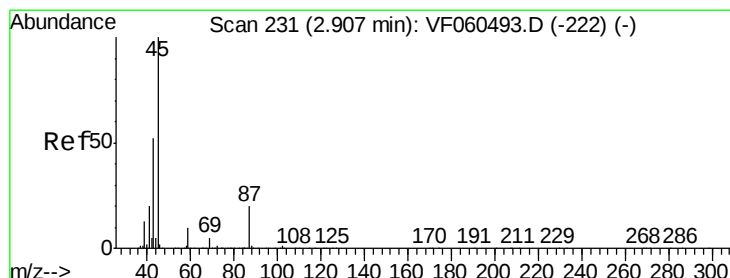
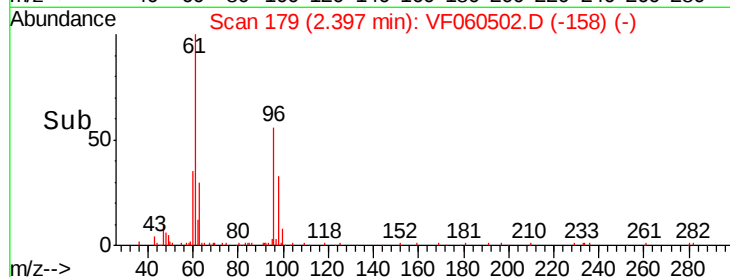
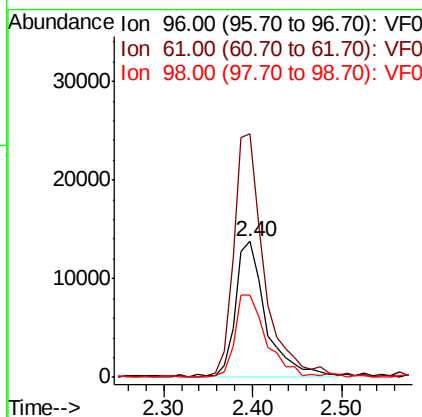
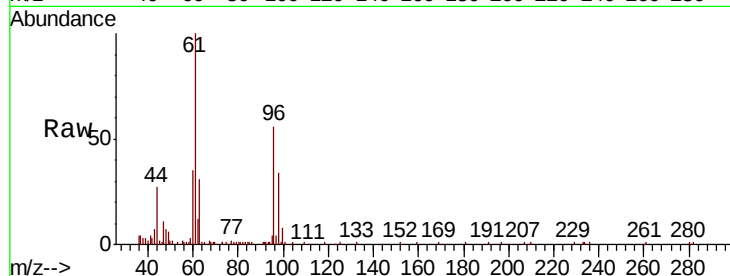
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	96	Resp:	33435
Ion	Ratio	Lower	Upper
96	100		
61	179.3	136.2	204.4
98	60.6	49.7	74.5

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#22

Diisopropyl ether

Concen: 11.362 ug/l

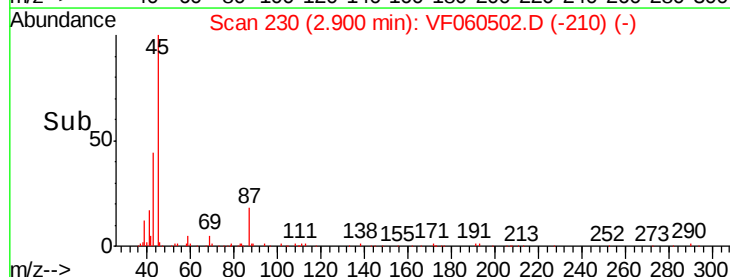
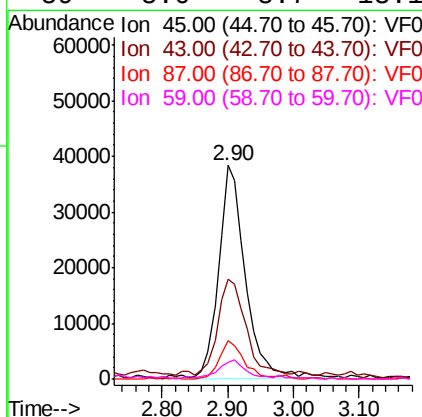
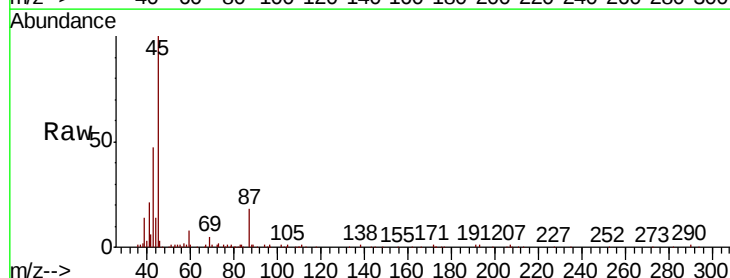
RT: 2.90 min Scan# 230

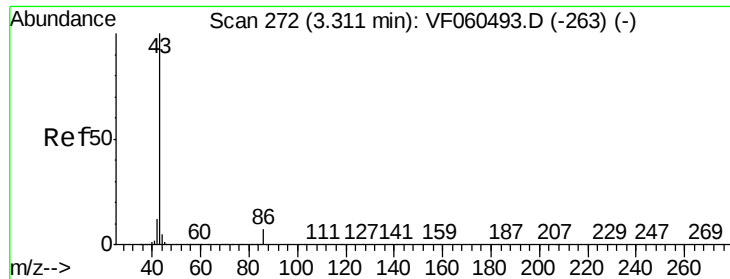
Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	45	Resp:	108098
Ion	Ratio	Lower	Upper
45	100		
43	46.6	41.8	62.8
87	18.1	15.7	23.5
59	8.0	8.7	13.1#





#23

Vinyl Acetate

Concen: 53.240 ug/l

RT: 3.30 min Scan# 271

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 43 Resp: 177318

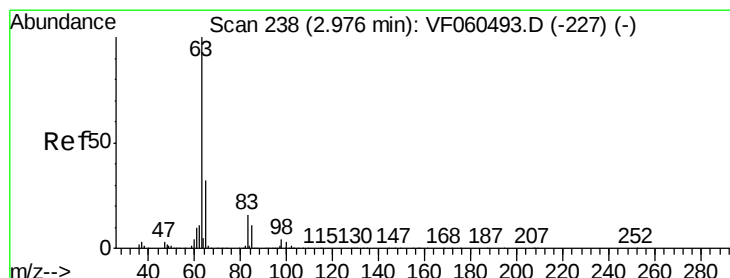
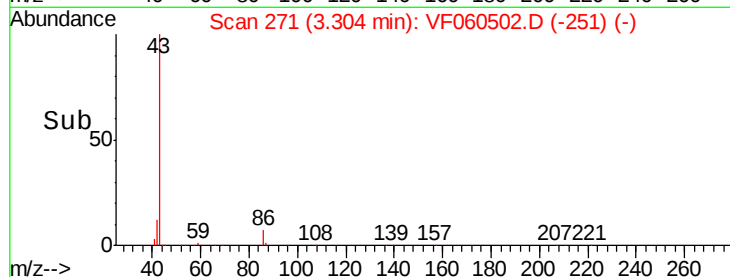
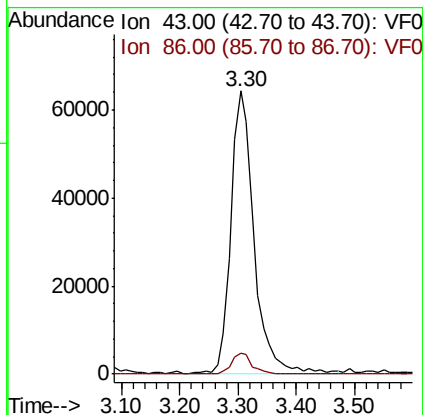
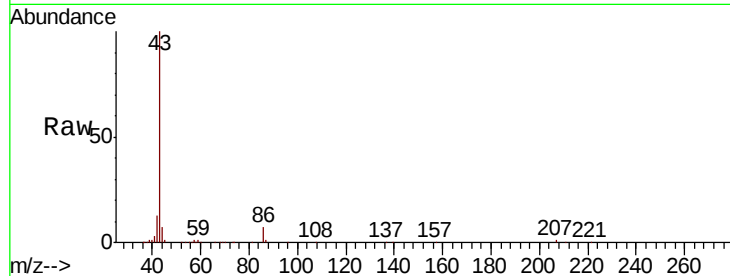
Ion Ratio Lower Upper

43 100

86 7.2 5.8 8.8

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#24

1,1-Dichloroethane

Concen: 9.981 ug/l

RT: 2.97 min Scan# 237

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

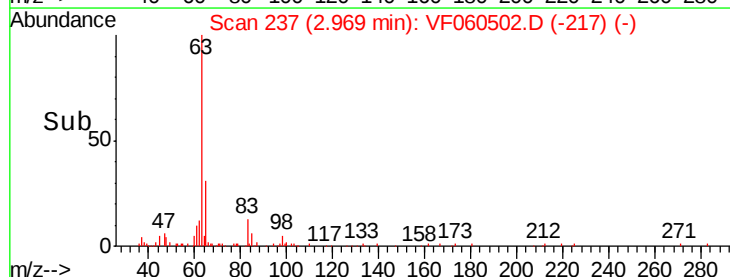
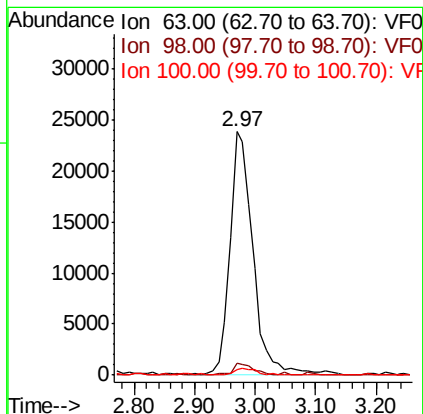
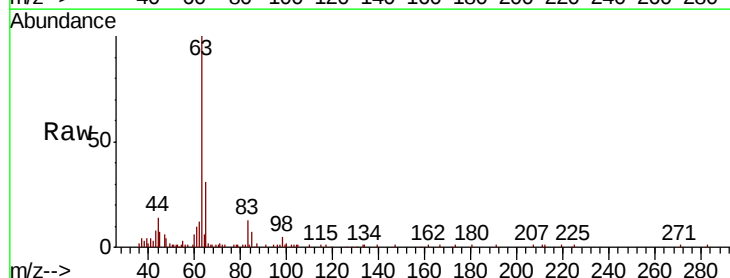
Tgt Ion: 63 Resp: 63727

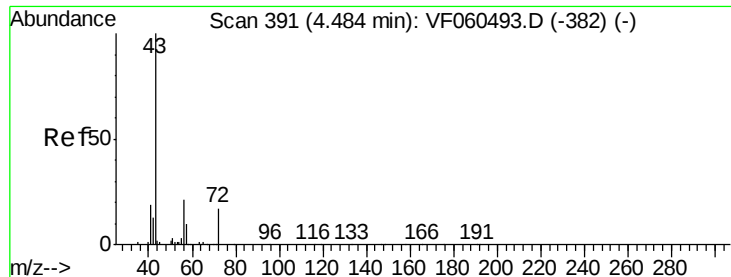
Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

100 2.3 1.5 4.4





#25

2-Butanone

Concen: 59.602 ug/l

RT: 4.48 min Scan# 390

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 43 Resp: 54817

Ion Ratio Lower Upper

43 100

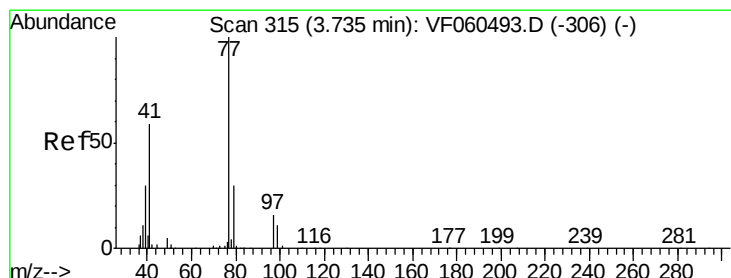
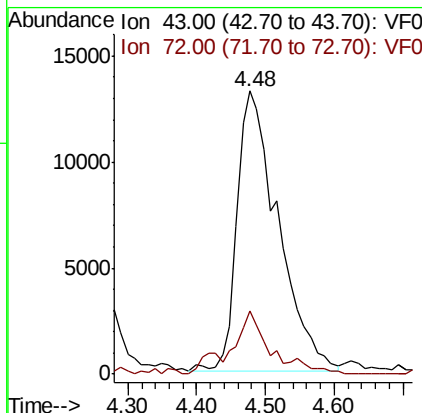
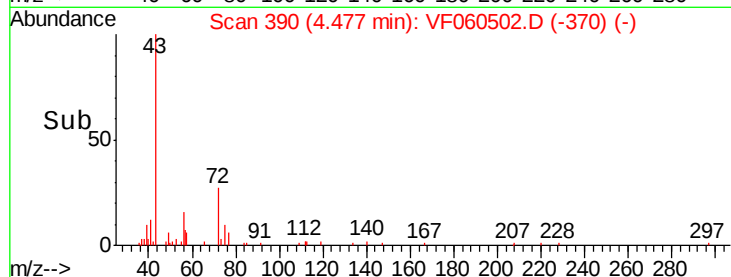
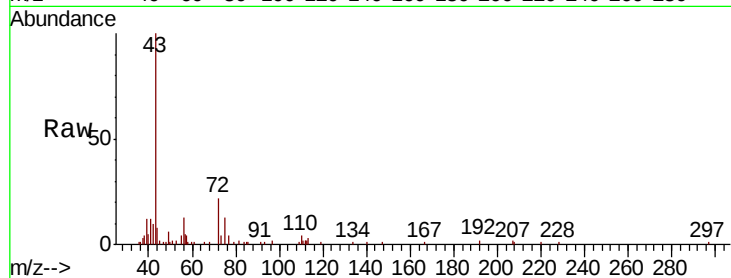
72 22.3 15.0 22.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 10.872 ug/l

RT: 3.73 min Scan# 314

Delta R.T. -0.01 min

Lab File: VF060502.D

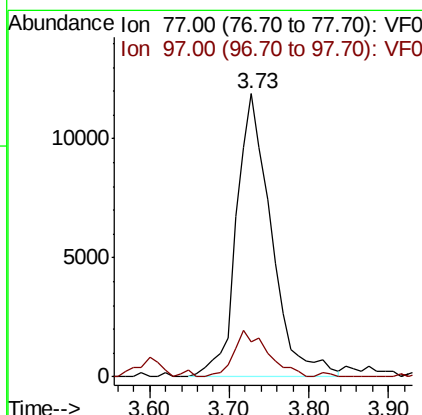
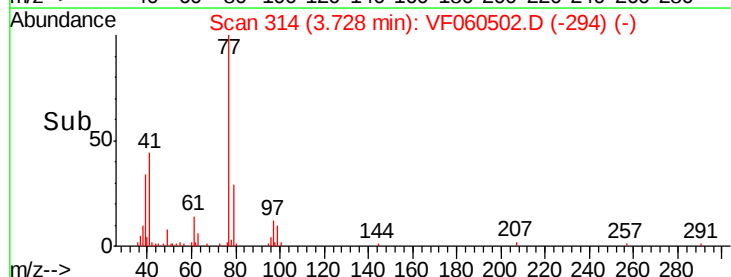
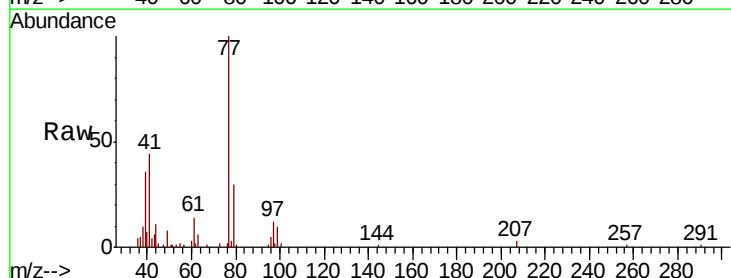
Acq: 9 Oct 2018 21:29

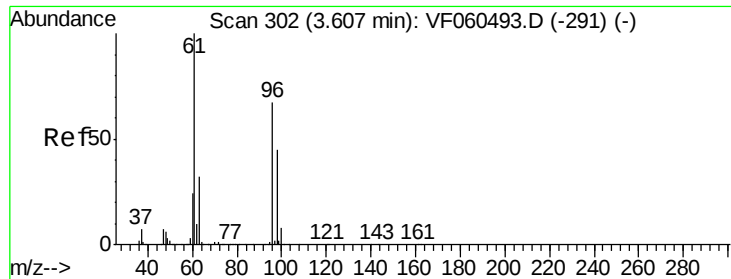
Tgt Ion: 77 Resp: 36192

Ion Ratio Lower Upper

77 100

97 12.4 8.6 25.7





#27

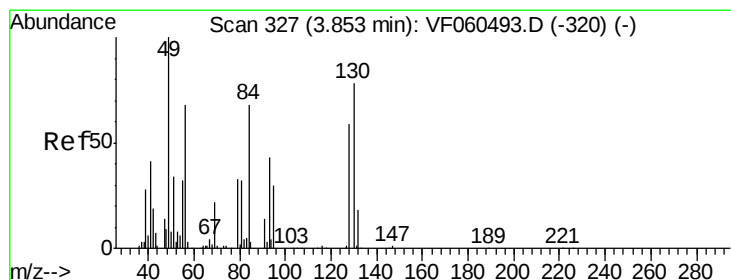
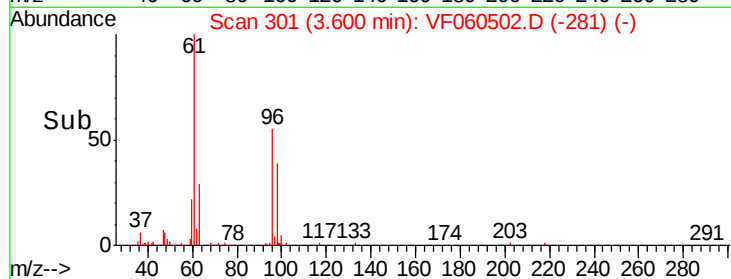
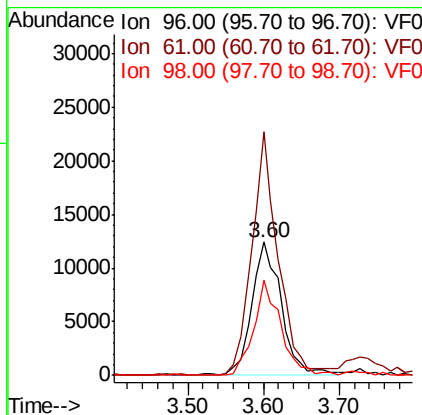
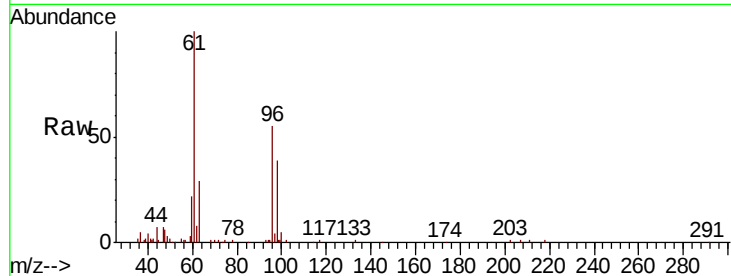
cis-1,2-Dichloroethene
 Concen: 9.895 ug/l
 RT: 3.60 min Scan# 301
 Delta R.T. -0.01 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
96	100		
61	183.0	0.0	298.0
98	71.6	0.0	135.0

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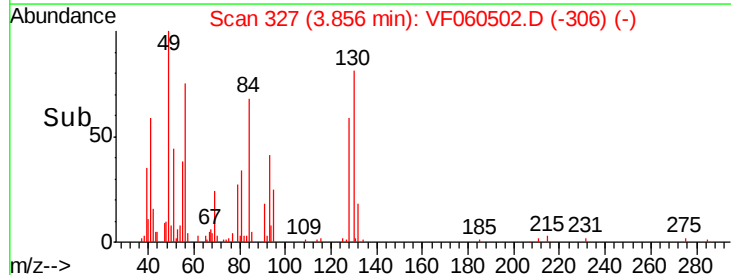
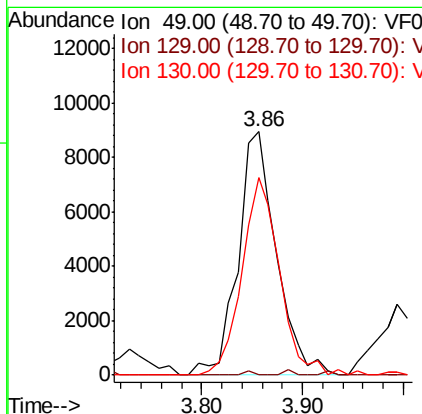
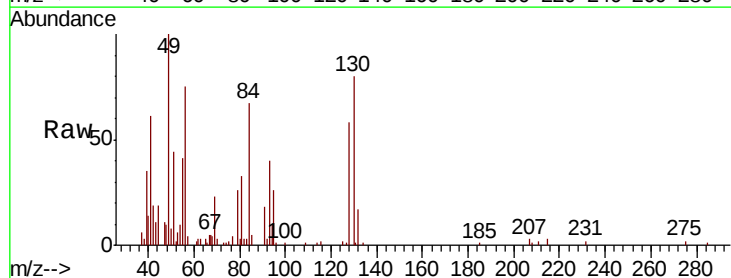
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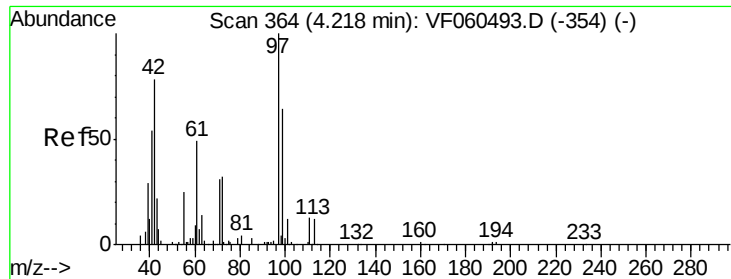


#28

Bromochloromethane
 Concen: 10.674 ug/l
 RT: 3.86 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	81.3	62.2	93.2





#29

Tetrahydrofuran

Concen: 58.103 ug/l

RT: 4.23 min Scan# 365

Delta R.T. 0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

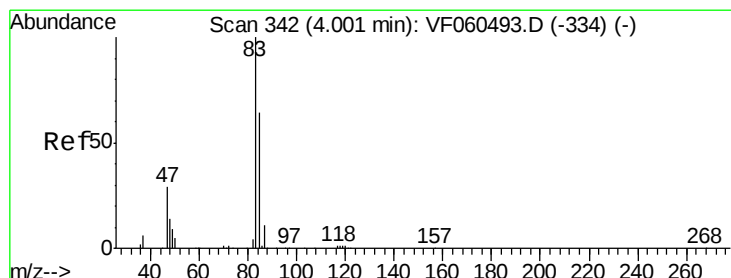
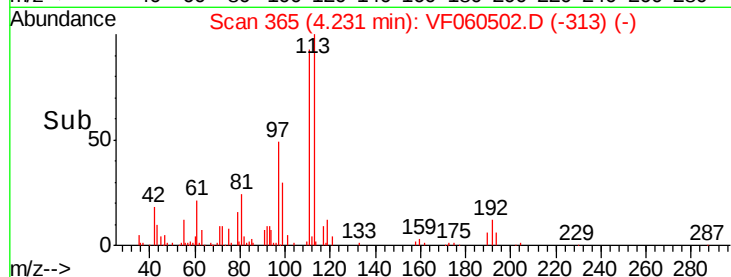
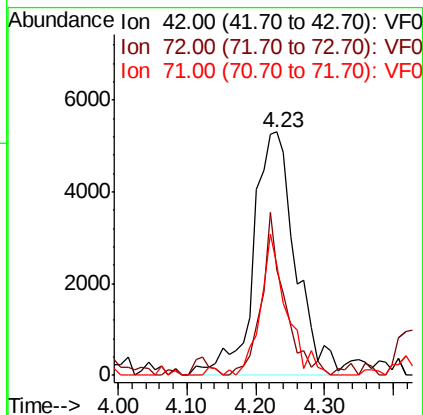
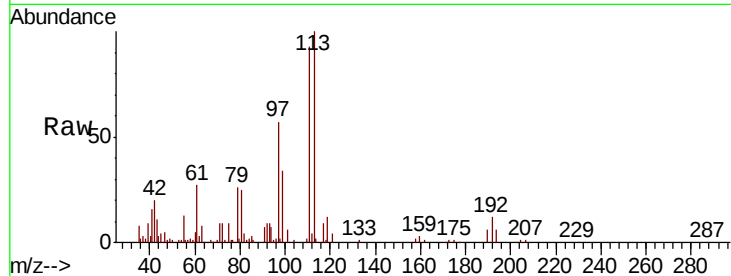
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	42	Resp:	22527
Ion Ratio	Lower	Upper	
42	100		
72	36.7	31.9	47.9
71	36.5	33.4	50.0

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#30

Chloroform

Concen: 11.370 ug/l

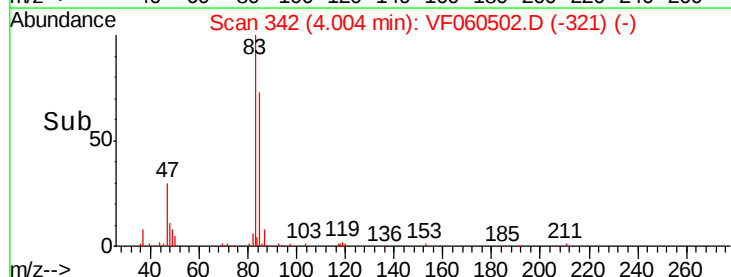
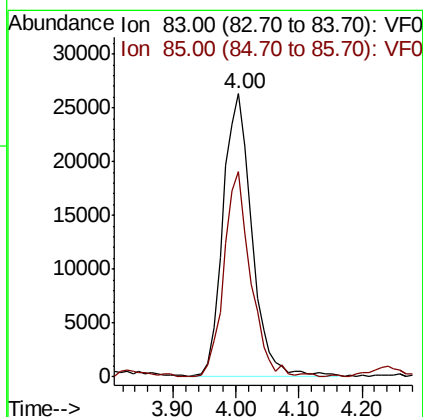
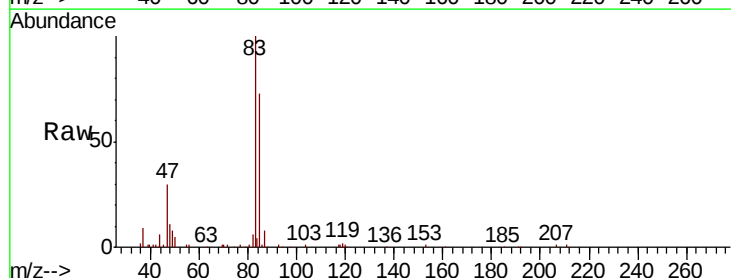
RT: 4.00 min Scan# 342

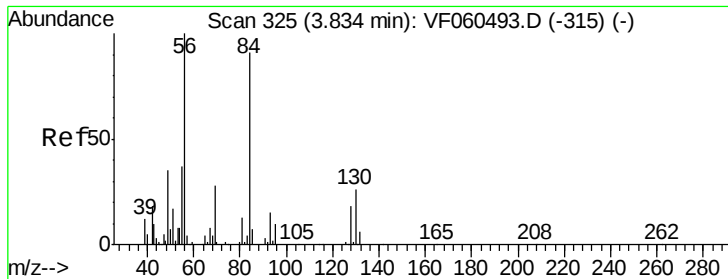
Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	83	Resp:	84007
Ion Ratio	Lower	Upper	
83	100		
85	72.7	51.7	77.5





#31

Cyclohexane

Concen: 10.661 ug/l

RT: 3.84 min Scan# 325

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

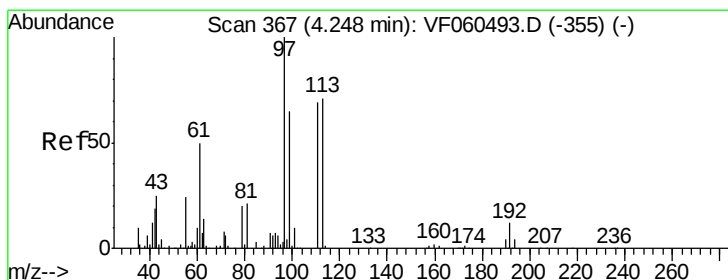
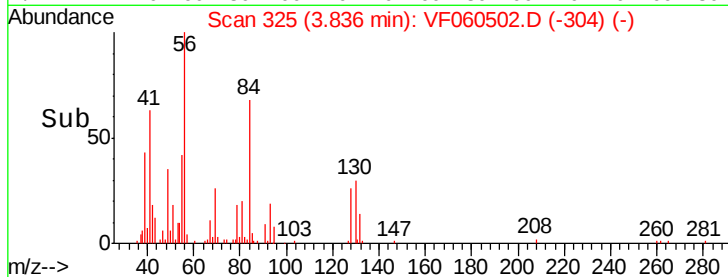
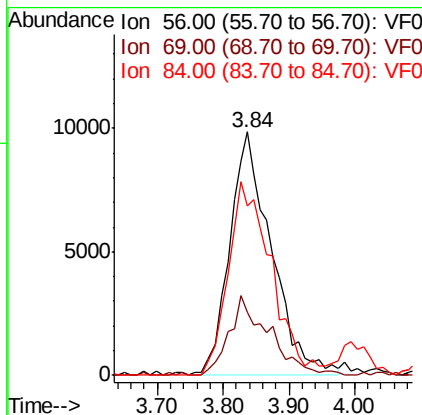
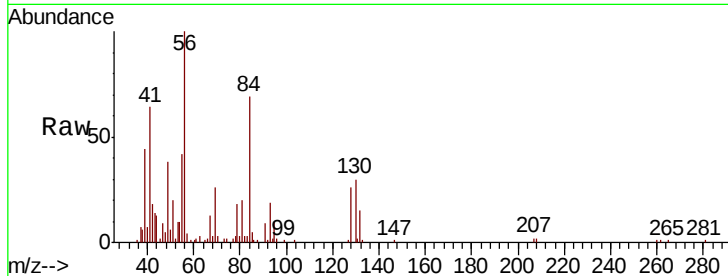
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	56	Resp:	43545
Ion	Ratio	Lower	Upper
56	100		
69	26.0	22.7	34.1
84	69.5	73.1	109.7#

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#32

1,1,1-Trichloroethane

Concen: 11.148 ug/l

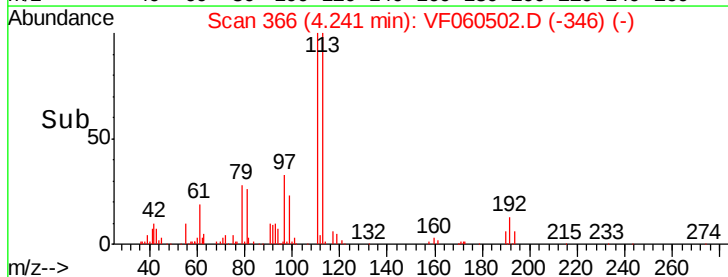
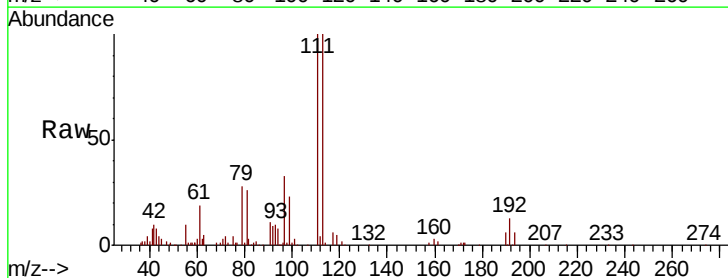
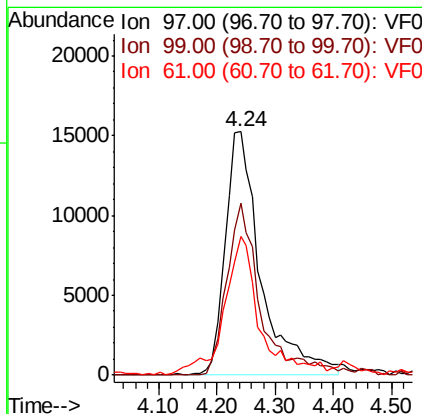
RT: 4.24 min Scan# 366

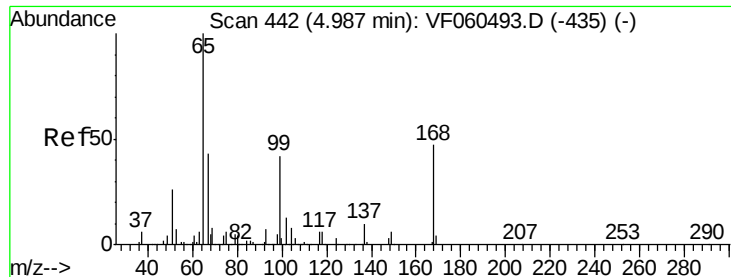
Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	97	Resp:	64891
Ion	Ratio	Lower	Upper
97	100		
99	70.5	52.3	78.5
61	56.8	39.8	59.8





#33

1,2-Dichloroethane-d4

Concen: 55.515 ug/l

RT: 4.99 min Scan# 442

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 65 Resp: 214057

Ion Ratio Lower Upper

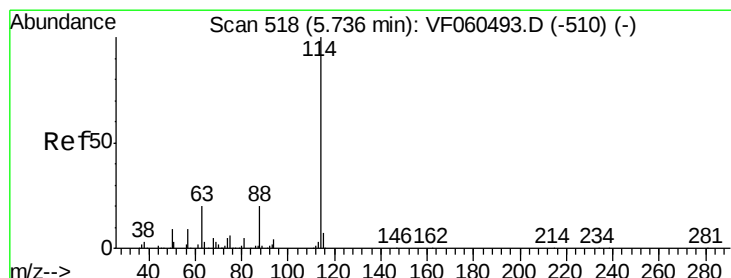
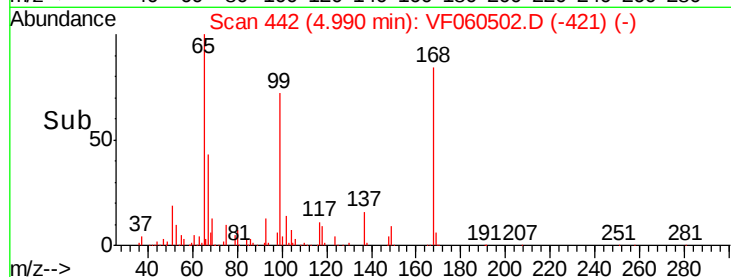
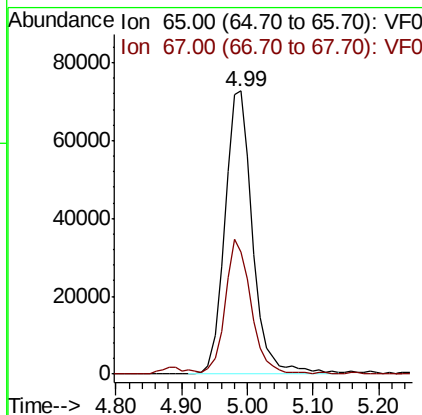
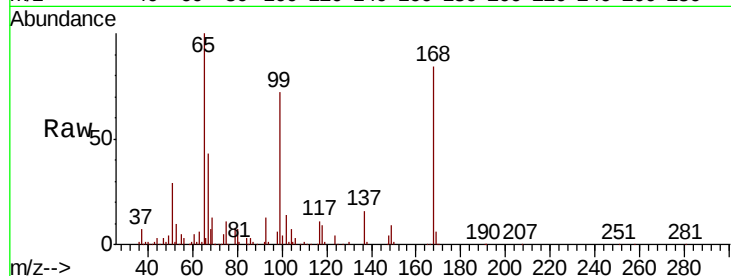
65 100

67 43.3 0.0 94.6

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 517

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

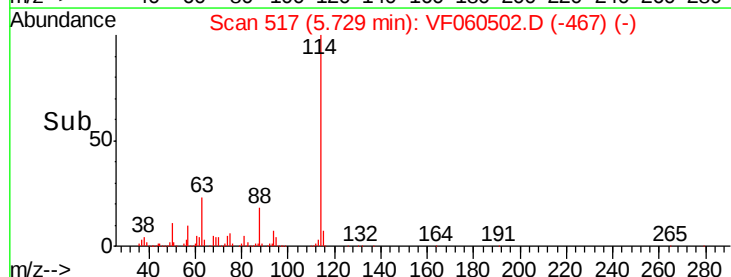
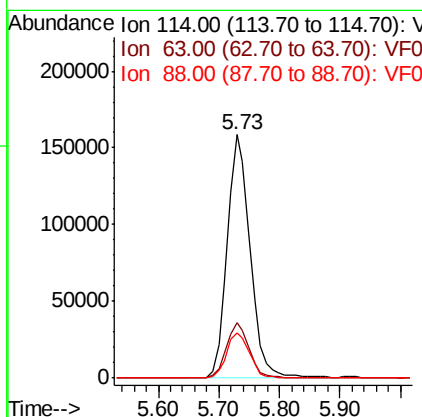
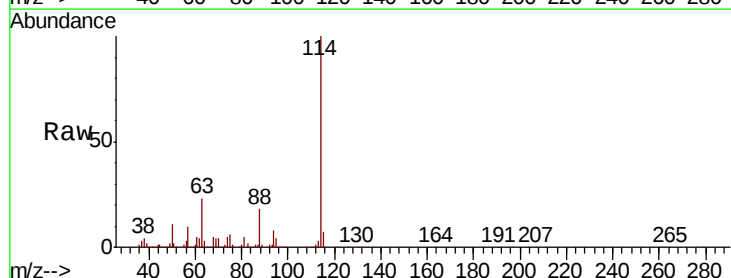
Tgt Ion: 114 Resp: 417586

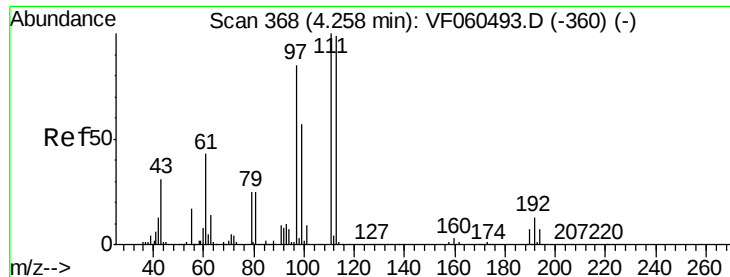
Ion Ratio Lower Upper

114 100

63 22.7 0.0 40.2

88 18.4 0.0 40.2





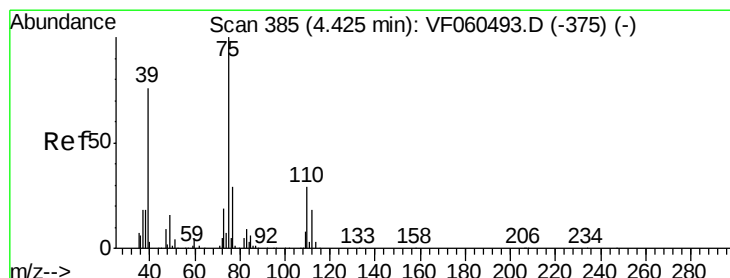
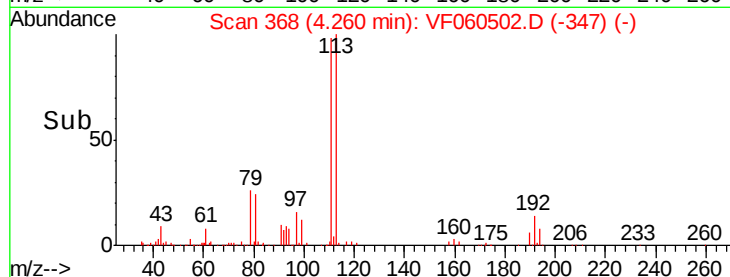
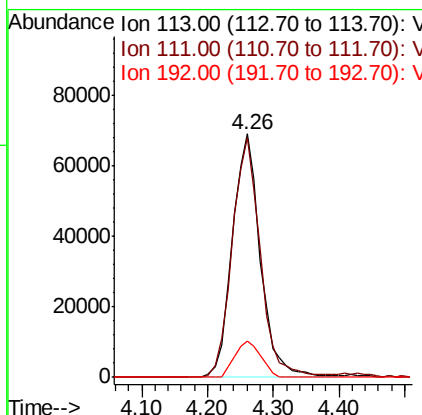
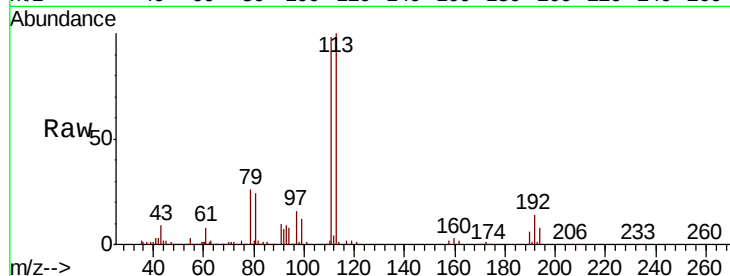
#35
 Dibromofluoromethane
 Concen: 53.940 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Resp	Lower	Upper
113	100	207336		
111	98.4	81.0	121.6	
192	15.0	10.7	16.1	

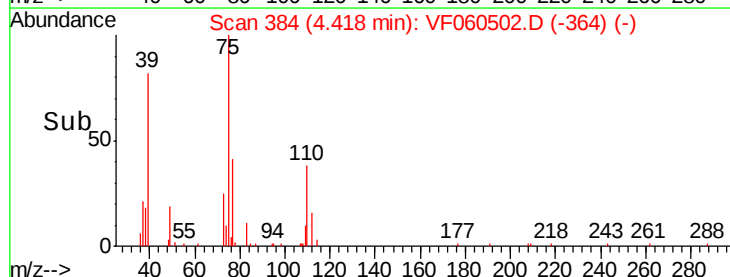
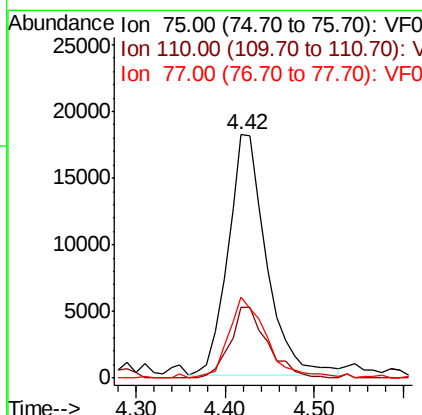
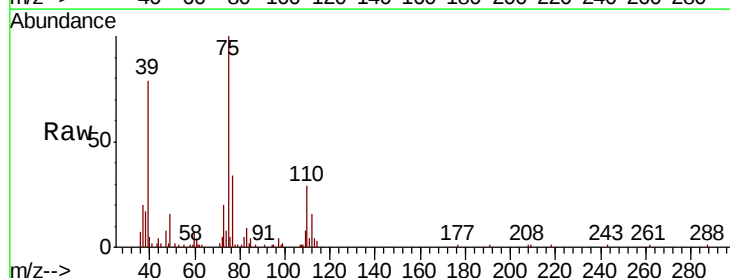
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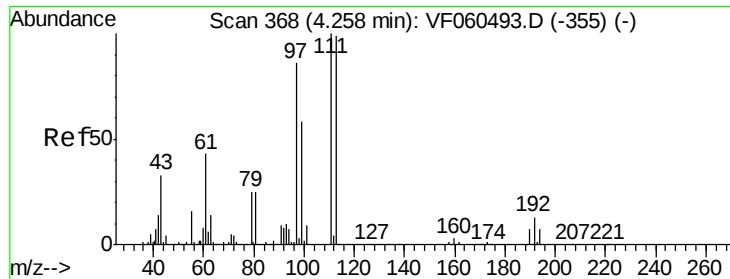
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#36
 1,1-Dichloropropene
 Concen: 11.164 ug/l
 RT: 4.42 min Scan# 384
 Delta R.T. -0.01 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	54226		
110	33.7	14.4	43.2	
77	33.5	23.5	35.3	





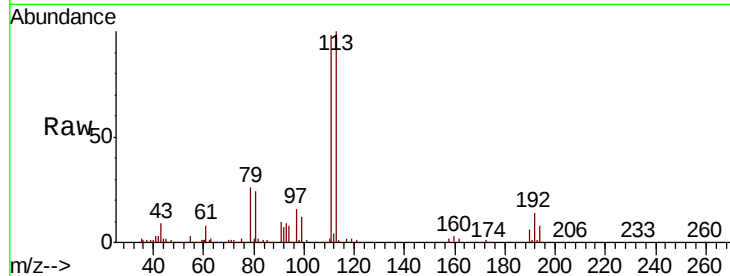
#37
Ethyl Acetate
Concen: 12.780 ug/l
RT: 4.26 min Scan# 368
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	43	61	70
Resp	21927		
Ratio	100	90.4	7.8
Lower		106.5	6.5
Upper		159.7#	9.7

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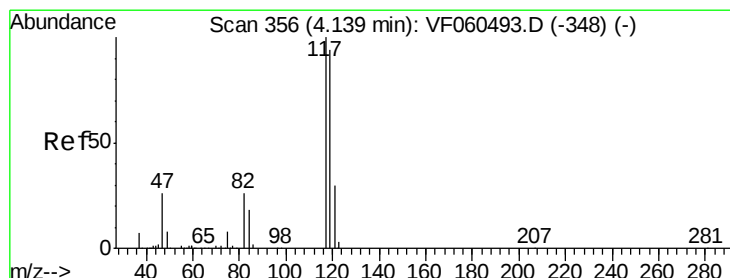
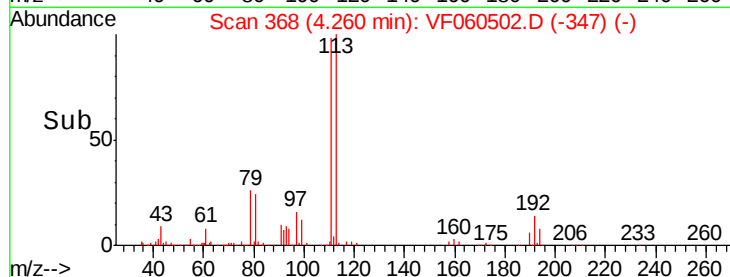
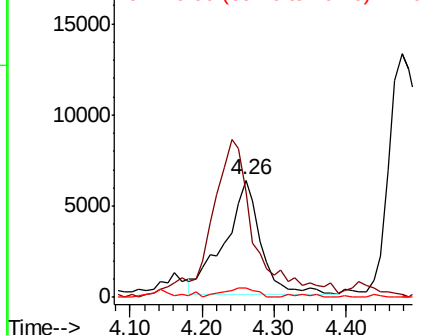


Abundance

Ion 43.00 (42.70 to 43.70): VF0

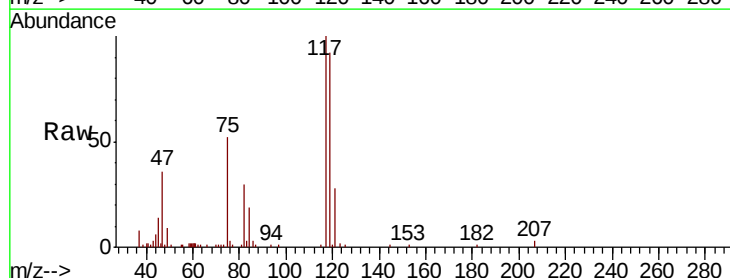
Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38
Carbon Tetrachloride
Concen: 14.237 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	117	119	121
Resp	69466		
Ratio	100	91.7	28.2
Lower		75.0	23.8
Upper		112.4	35.6

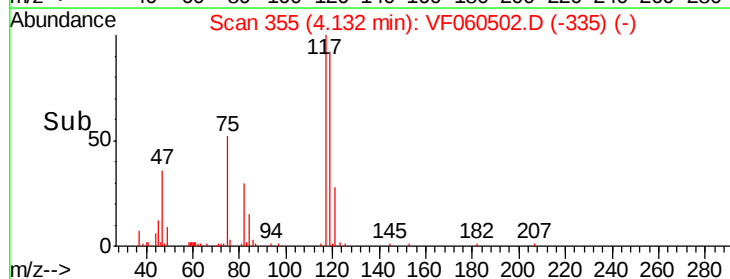
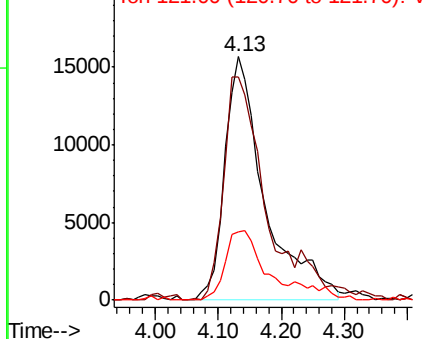


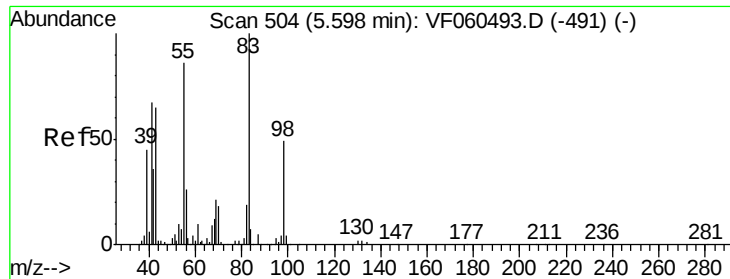
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





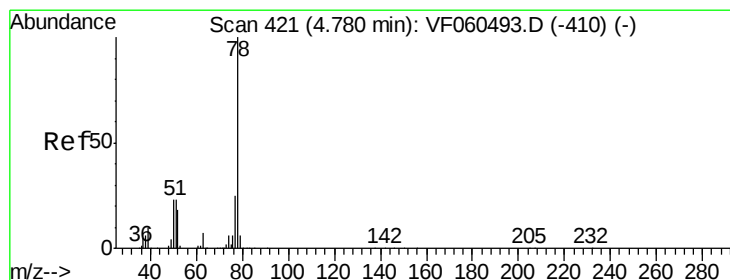
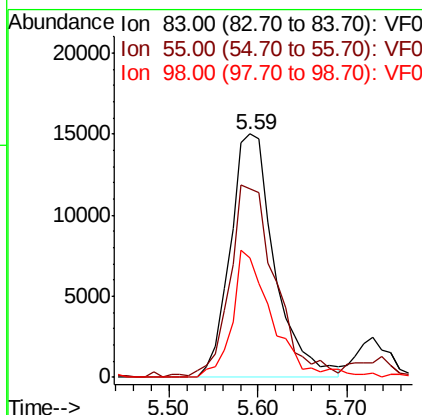
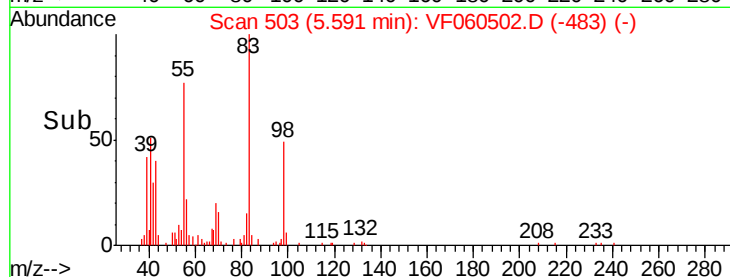
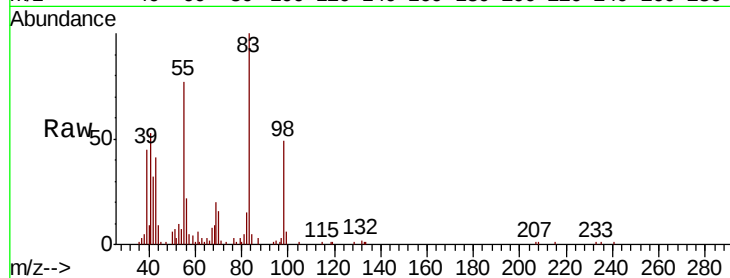
#39
Methylcyclohexane
Concen: 11.371 ug/l
RT: 5.59 min Scan# 503
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.4	69.2	103.8
98	49.0	39.6	59.4

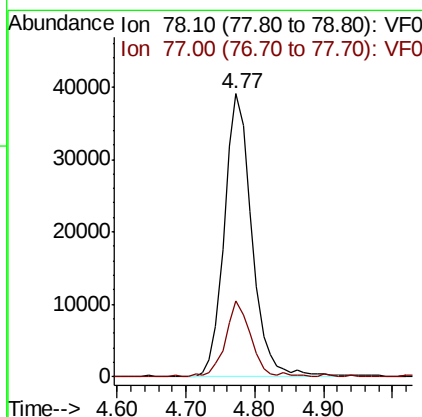
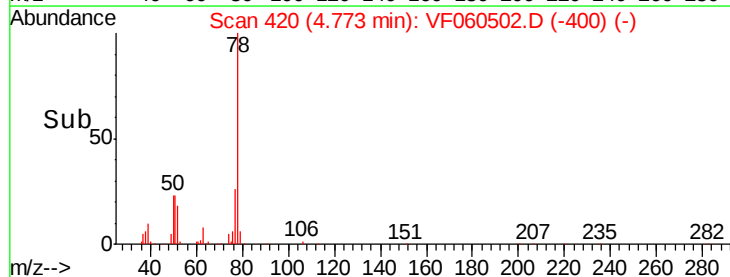
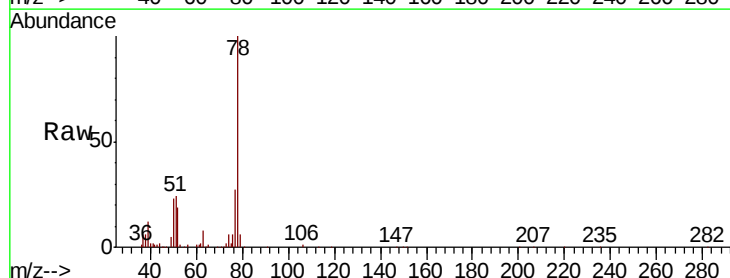
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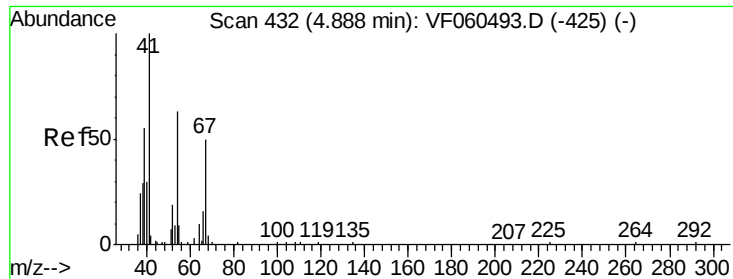
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#40
Benzene
Concen: 10.846 ug/l
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.9	19.8	29.8





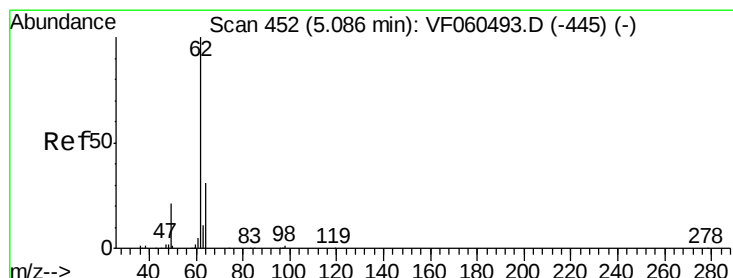
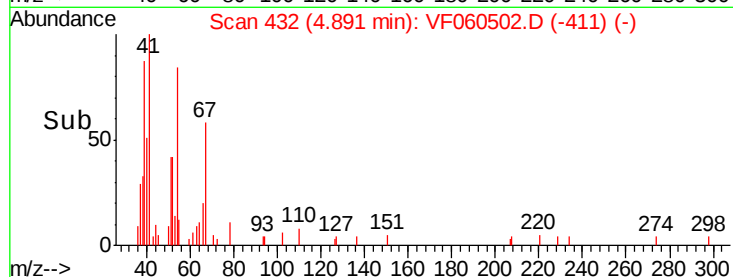
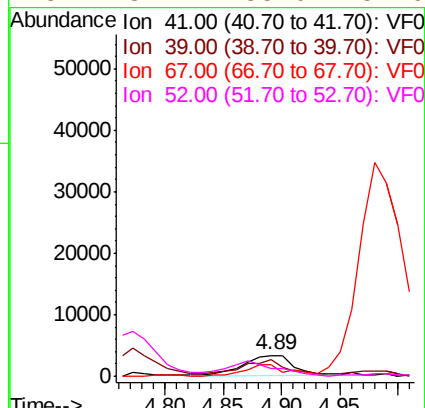
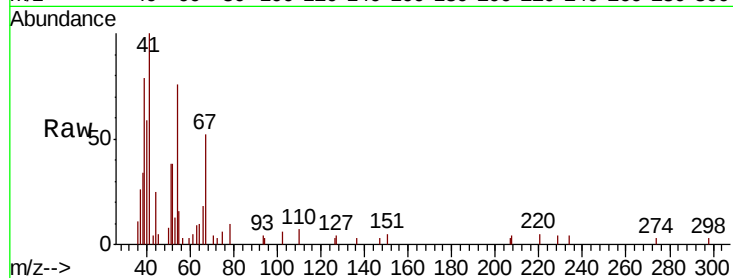
#41
Methacrylonitrile
Concen: 10.228 ug/l
RT: 4.89 min Scan# 432
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion:	41	Resp:	9971
Ion	Ratio	Lower	Upper
41	100		
39	79.2	53.1	79.7
67	52.5	39.4	59.0
52	37.7	35.0	52.6

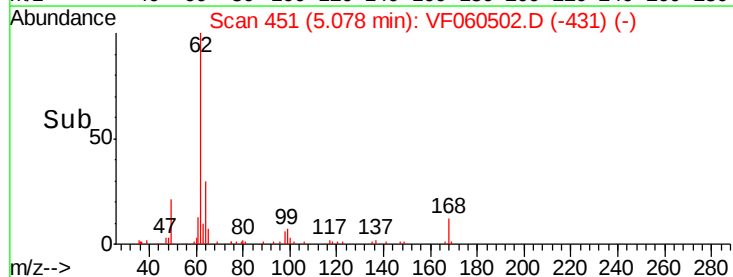
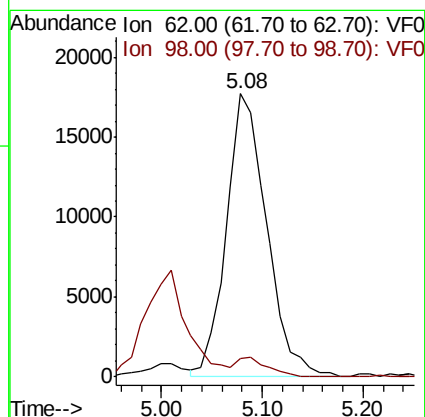
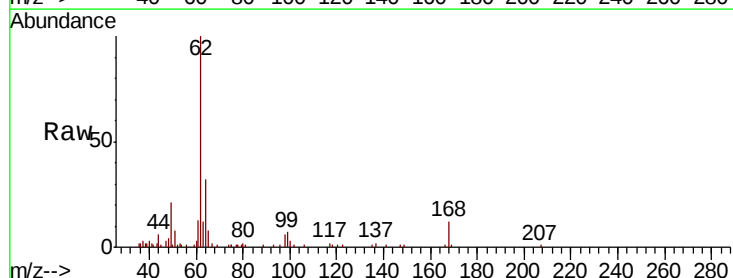
Manual Integrations
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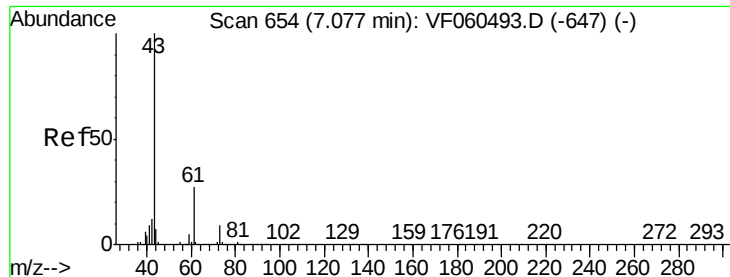
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#42
1,2-Dichloroethane
Concen: 10.887 ug/l
RT: 5.08 min Scan# 451
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion:	62	Resp:	49256
Ion	Ratio	Lower	Upper
62	100		
98	6.4	0.0	12.8





#43

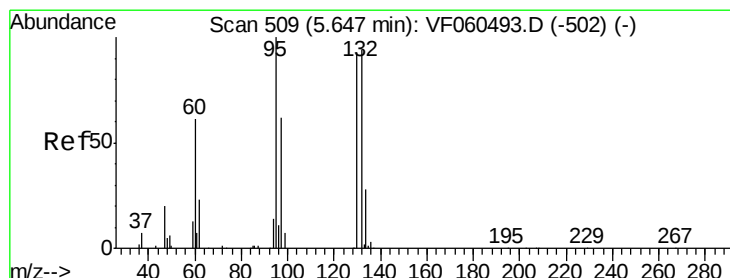
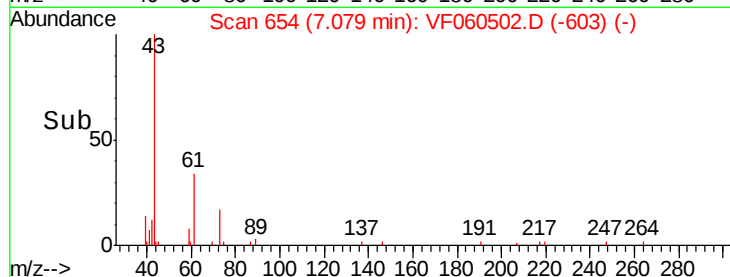
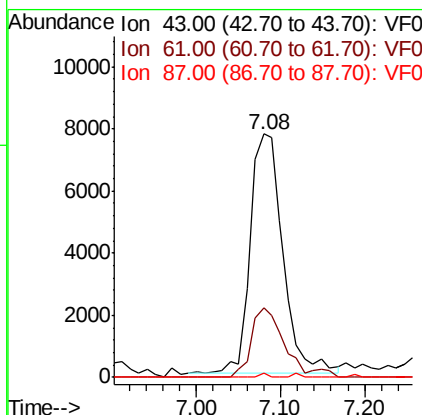
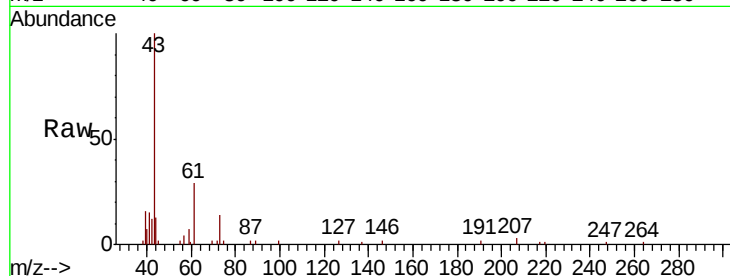
Isopropyl Acetate
 Concen: 9.735 ug/l
 RT: 7.08 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.8	21.6	32.4
87	1.5	0.6	0.8

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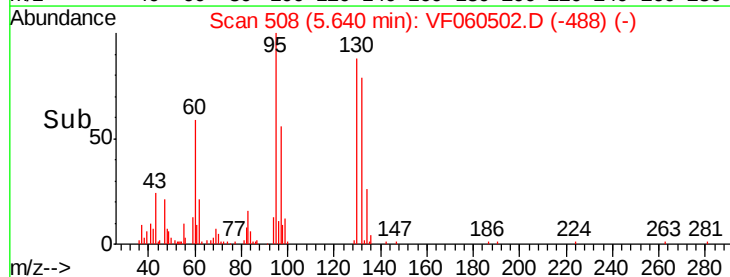
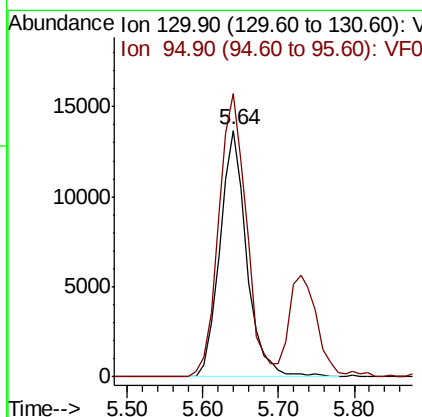
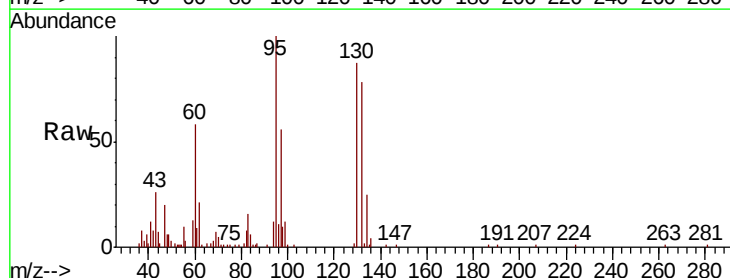
apatel
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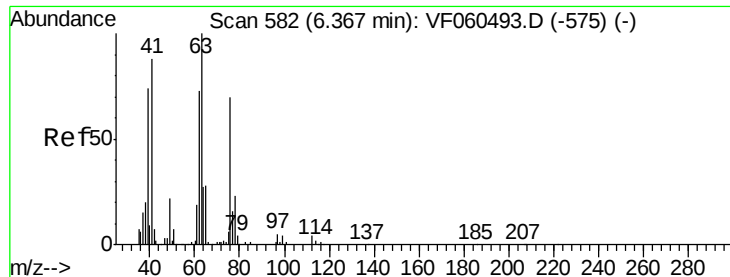


#44

Trichloroethene
 Concen: 10.807 ug/l
 RT: 5.64 min Scan# 508
 Delta R.T. -0.01 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
130	100		
95	114.8	0.0	216.0





#45

1,2-Dichloropropane

Concen: 10.904 ug/l

RT: 6.37 min Scan# 582

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 63 Resp: 26619

Ion Ratio Lower Upper

63 100

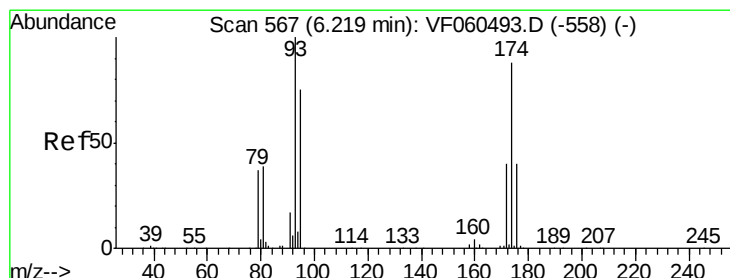
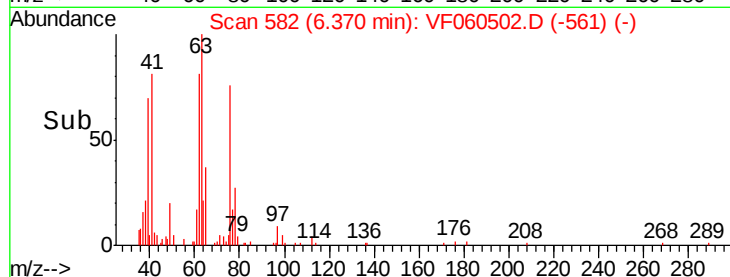
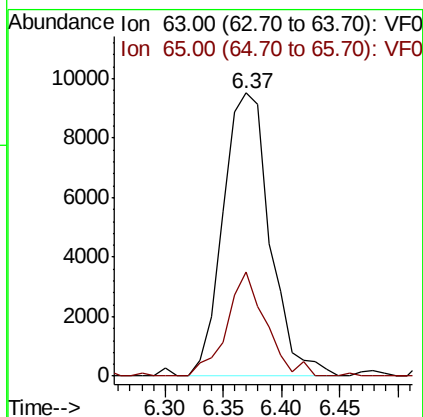
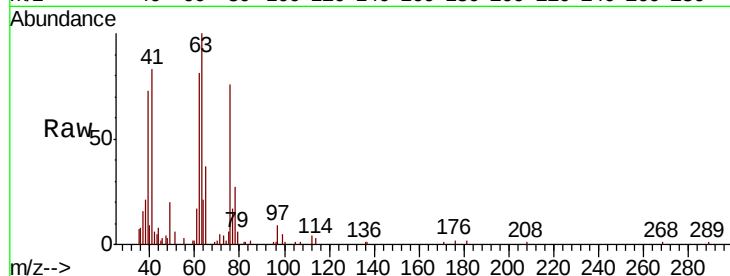
65 36.8 22.2 33.2#

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#46

Dibromomethane

Concen: 10.148 ug/l

RT: 6.22 min Scan# 567

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

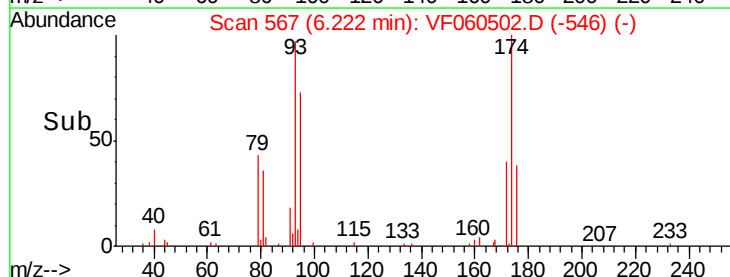
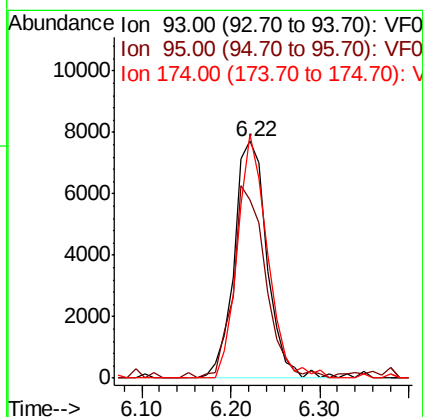
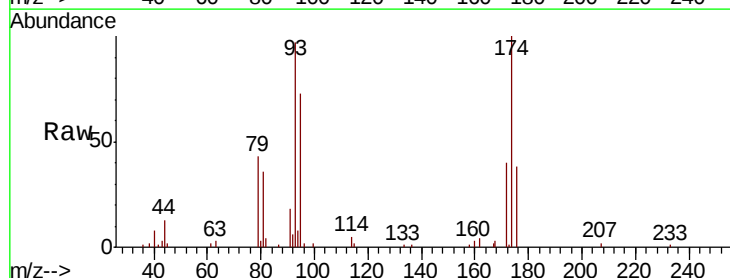
Tgt Ion: 93 Resp: 19873

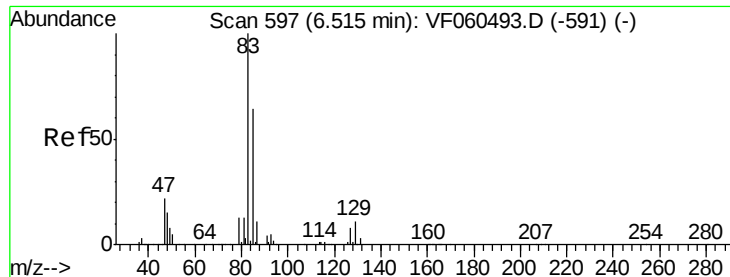
Ion Ratio Lower Upper

93 100

95 75.3 60.0 90.0

174 102.9 71.0 106.6





#47

Bromodichloromethane

Concen: 10.859 ug/l

RT: 6.52 min Scan# 597

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

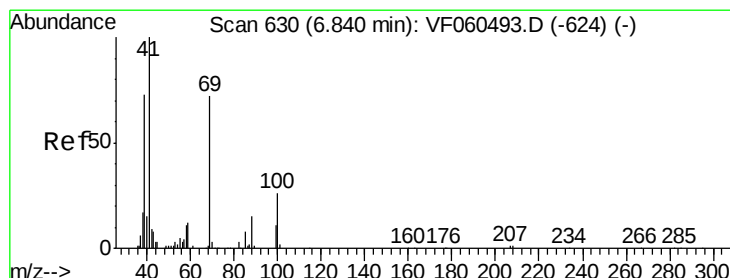
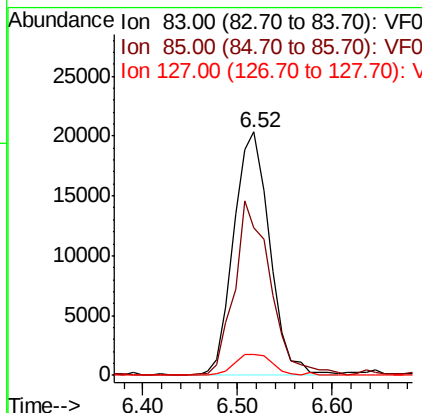
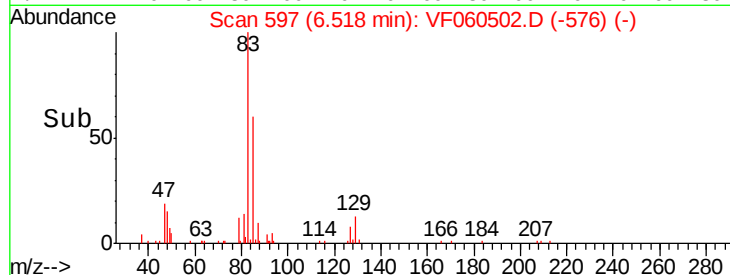
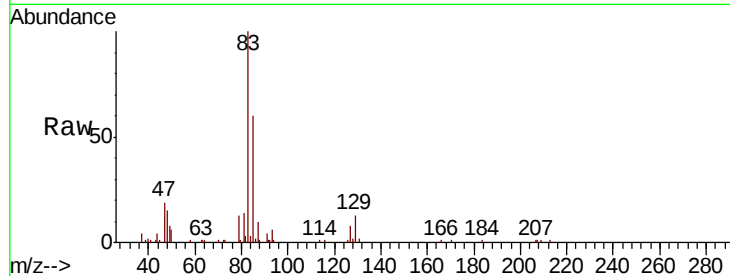
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	83	Resp:	53708
Ion Ratio	Lower	Upper	
83	100		
85	60.5	51.2	76.8
127	8.4	6.5	9.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 11.115 ug/l

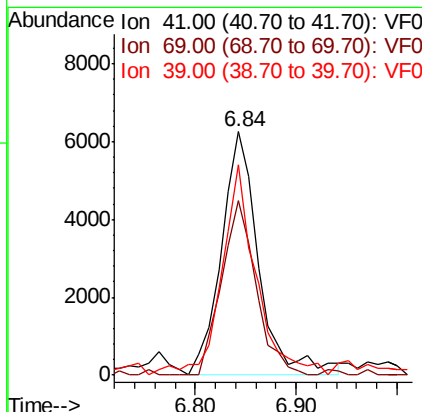
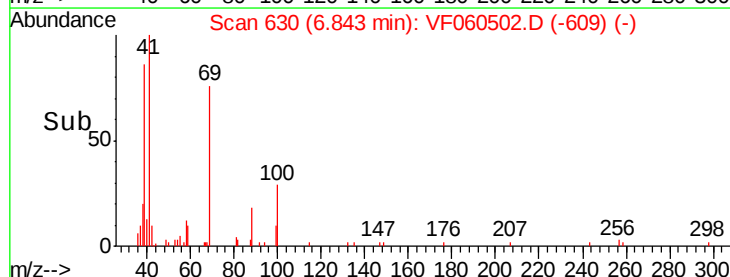
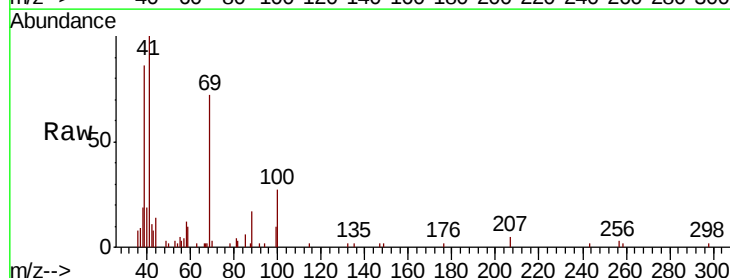
RT: 6.84 min Scan# 630

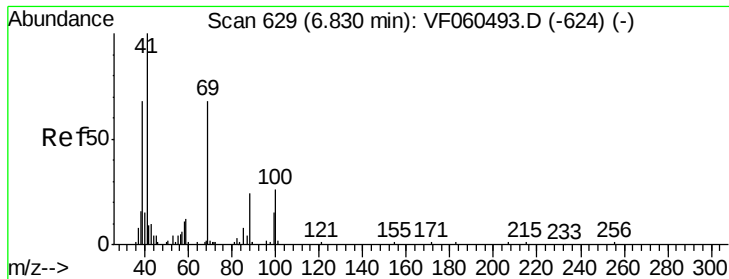
Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	41	Resp:	16100
Ion Ratio	Lower	Upper	
41	100		
69	71.6	57.8	86.8
39	86.3	59.1	88.7





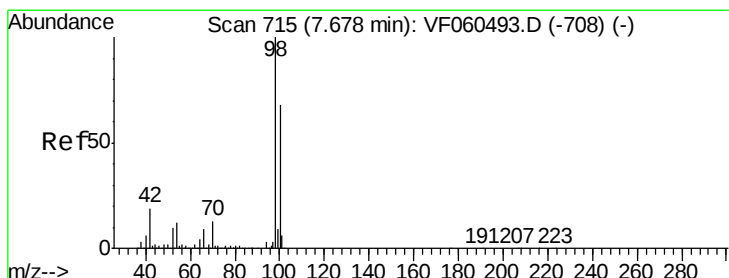
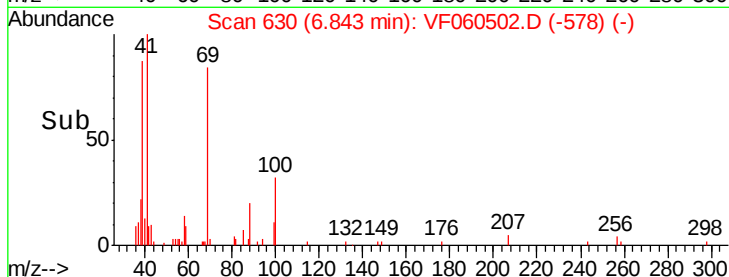
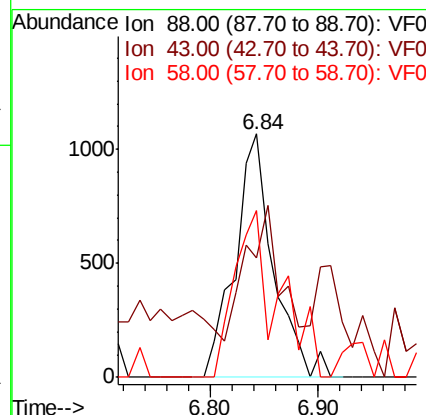
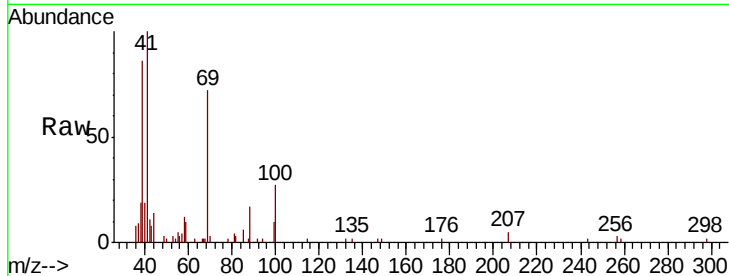
#49
1,4-Dioxane
Concen: 167.580 ug/l
RT: 6.84 min Scan# 630
Delta R.T. 0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
88	100		
43	49.0	40.2	60.2
58	68.4	36.3	54.5

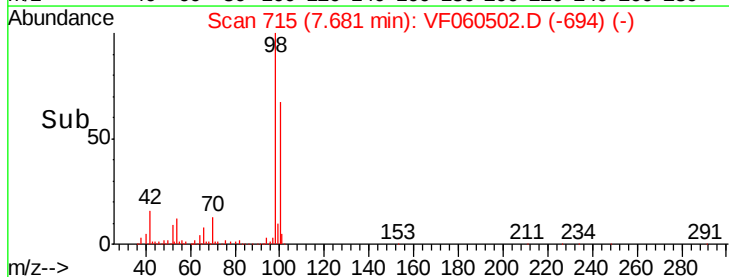
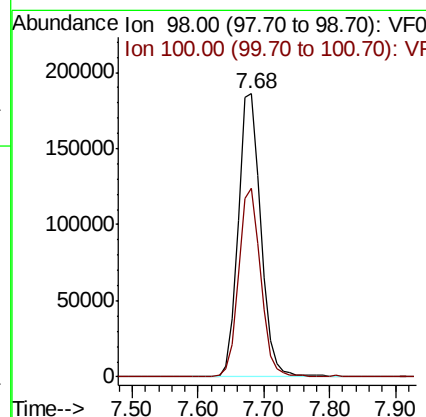
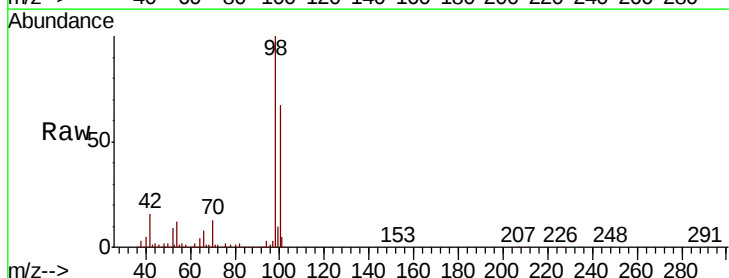
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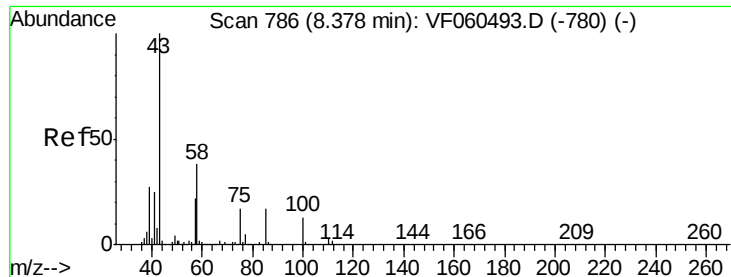
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#50
Toluene-d8
Concen: 48.930 ug/l
RT: 7.68 min Scan# 715
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.7	54.4	81.6





#51

4-Methyl-2-Pentanone

Concen: 54.405 ug/l

RT: 8.38 min Scan# 786

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 43 Resp: 81155

Ion Ratio Lower Upper

43 100

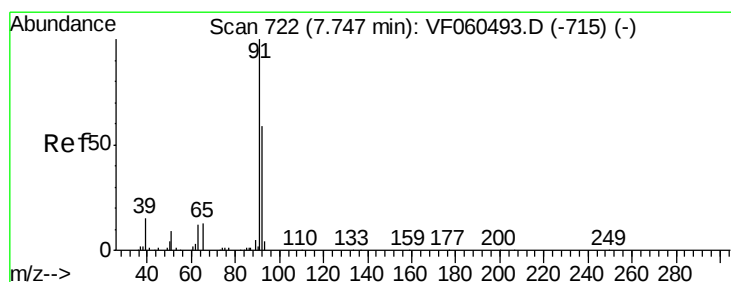
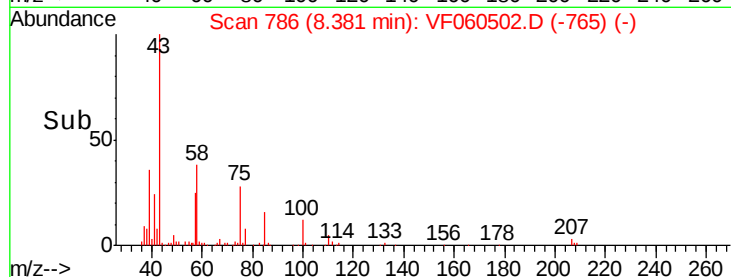
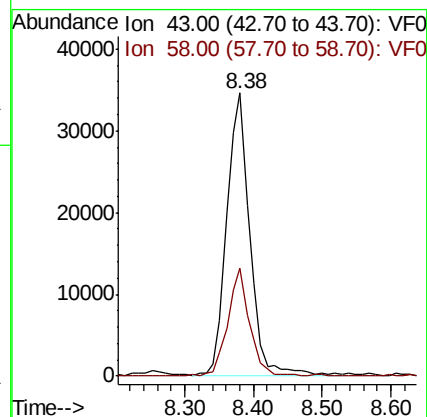
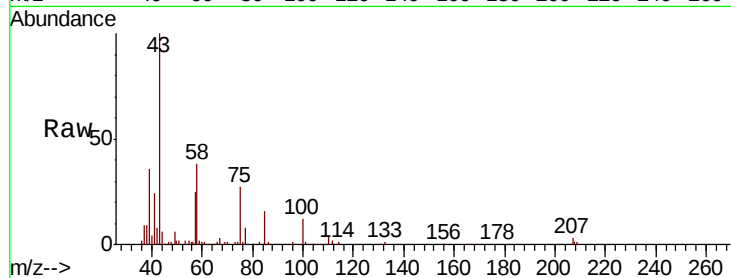
58 38.0 30.4 45.6

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#52

Toluene

Concen: 9.703 ug/l

RT: 7.75 min Scan# 722

Delta R.T. 0.00 min

Lab File: VF060502.D

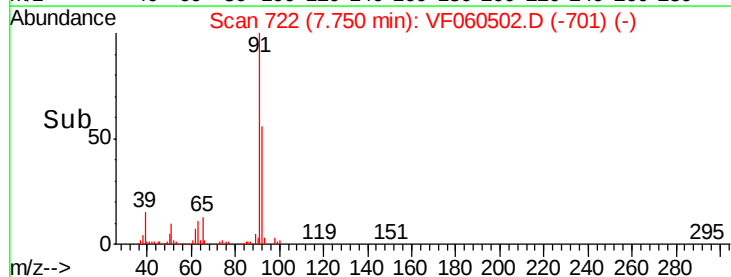
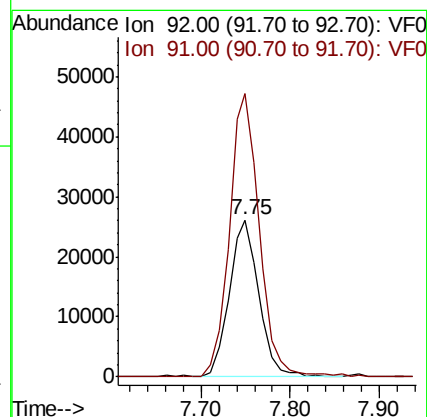
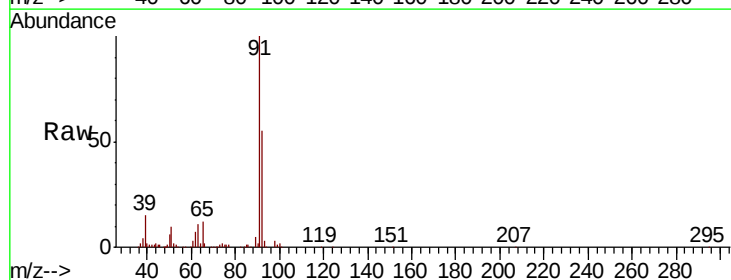
Acq: 9 Oct 2018 21:29

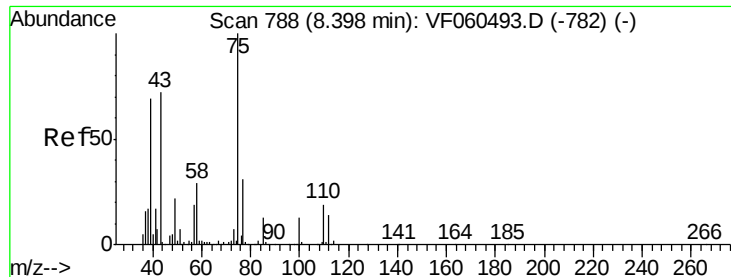
Tgt Ion: 92 Resp: 60942

Ion Ratio Lower Upper

92 100

91 180.4 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 10.347 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 75 Resp: 39743

Ion Ratio Lower Upper

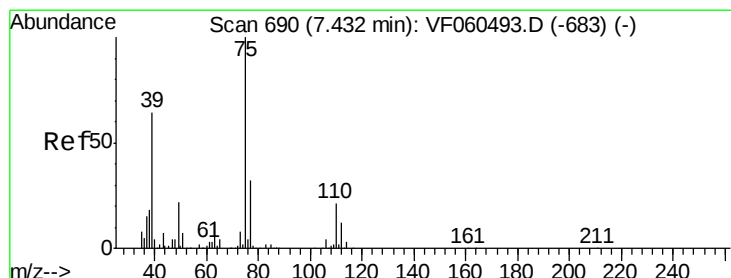
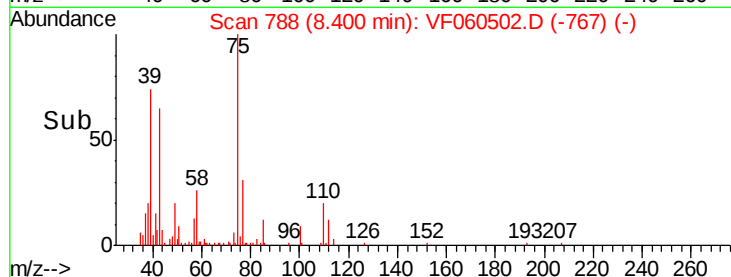
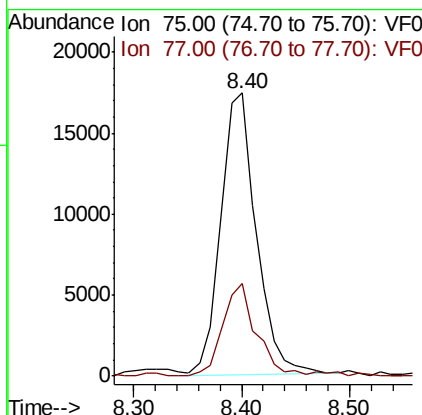
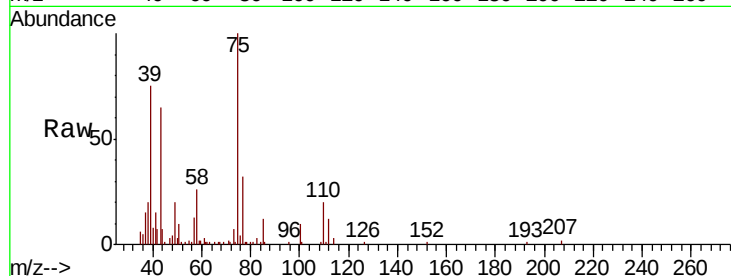
75 100

77 32.8 25.2 37.8

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#54

cis-1,3-Dichloropropene

Concen: 10.415 ug/l

RT: 7.42 min Scan# 689

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

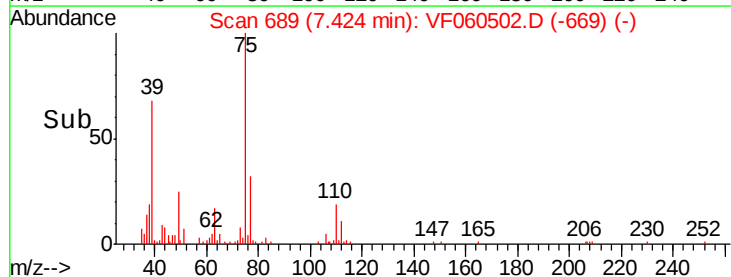
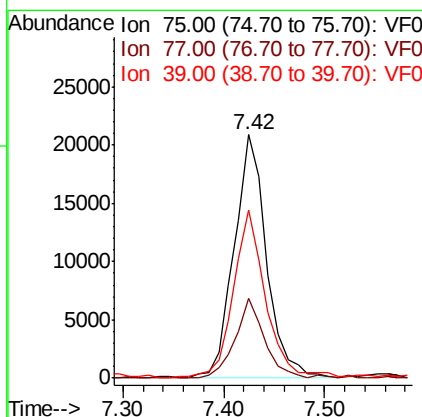
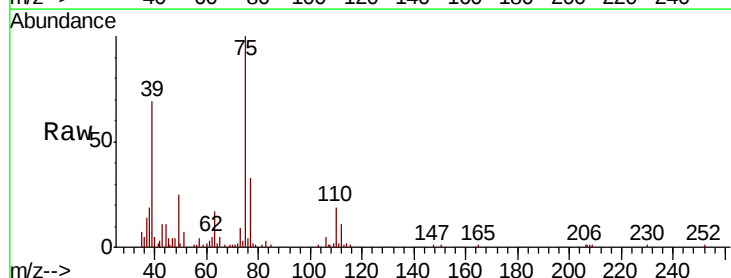
Tgt Ion: 75 Resp: 46594

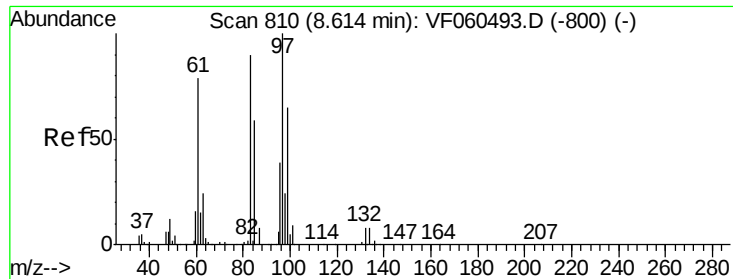
Ion Ratio Lower Upper

75 100

77 33.0 26.0 39.0

39 69.2 51.2 76.8





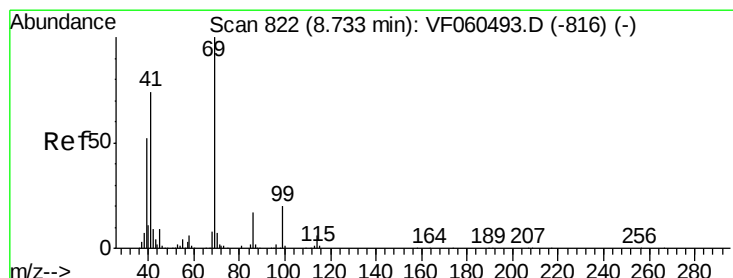
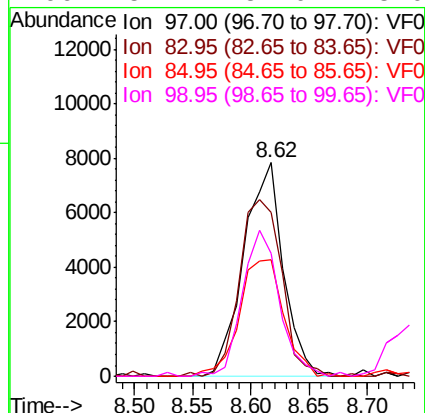
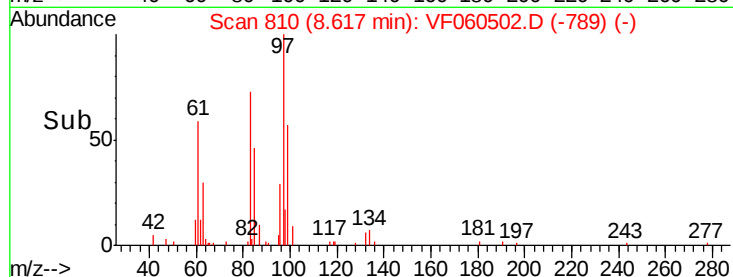
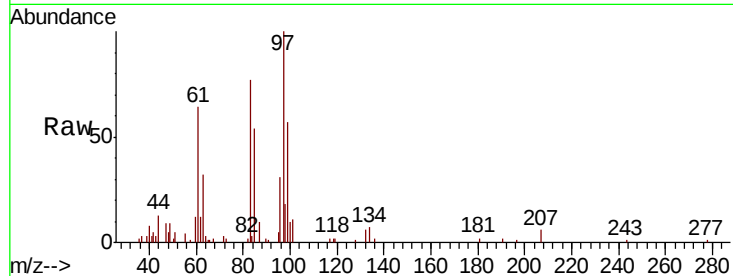
#55
1,1,2-Trichloroethane
Concen: 9.557 ug/l
RT: 8.62 min Scan# 810
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion:	97	Resp:	18448
Ion	Ratio	Lower	Upper
97	100		
83	76.5	71.9	107.9
85	54.4	47.8	71.8
99	57.4	52.0	78.0

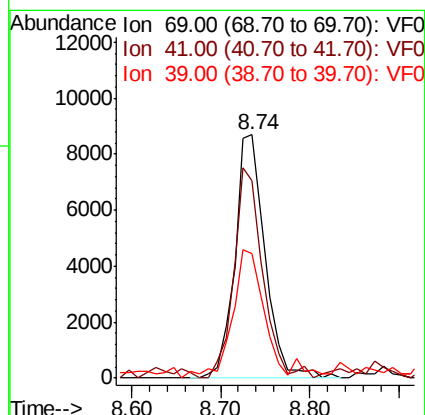
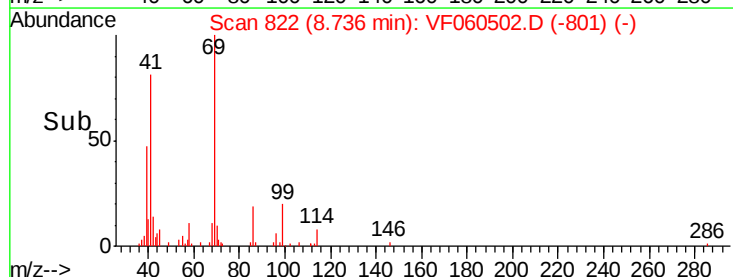
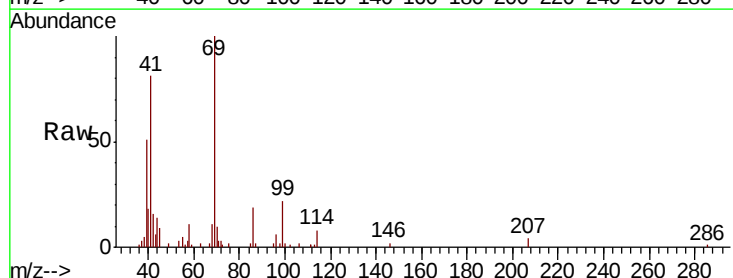
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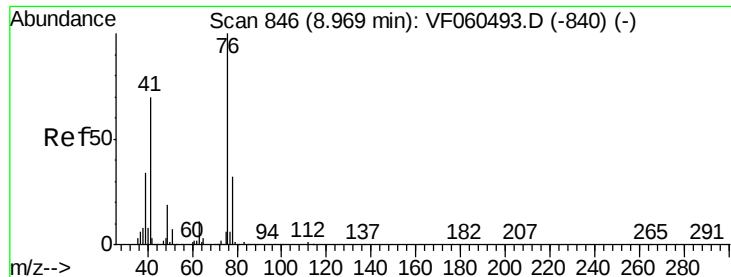
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#56
Ethyl methacrylate
Concen: 9.221 ug/l
RT: 8.74 min Scan# 822
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion:	69	Resp:	20594
Ion	Ratio	Lower	Upper
69	100		
41	81.0	59.3	88.9
39	51.1	41.8	62.6





#57

1,3-Dichloropropane

Concen: 10.149 ug/l

RT: 8.97 min Scan# 846

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 76 Resp: 33734

Ion Ratio Lower Upper

76 100

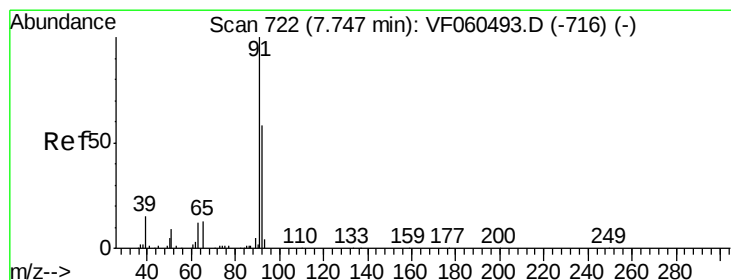
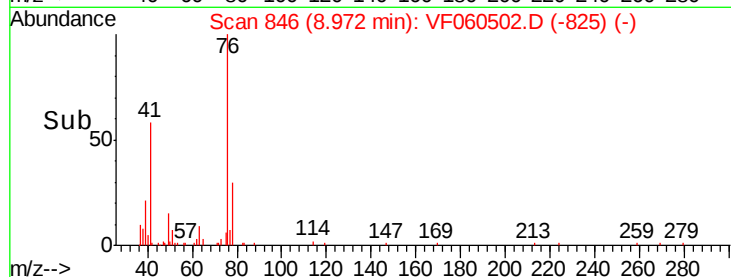
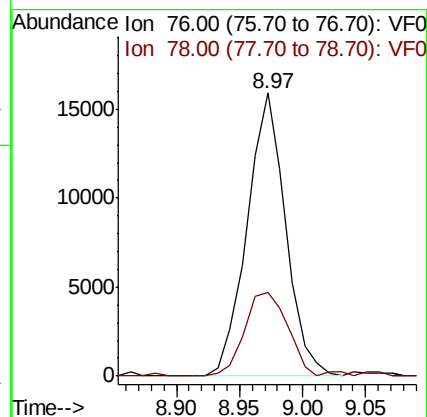
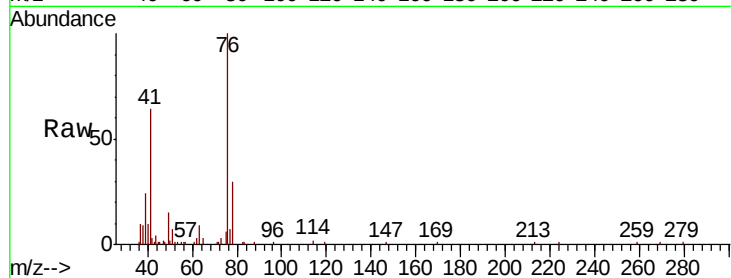
78 29.5 25.3 37.9

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 52.495 ug/l

RT: 7.75 min Scan# 722

Delta R.T. 0.00 min

Lab File: VF060502.D

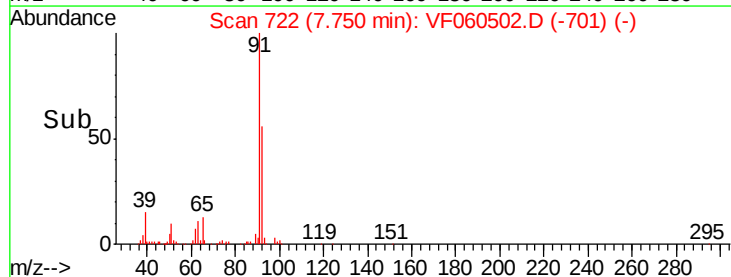
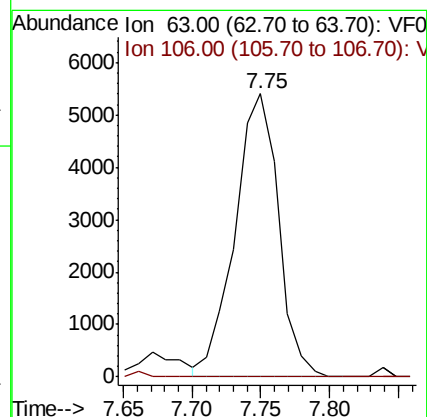
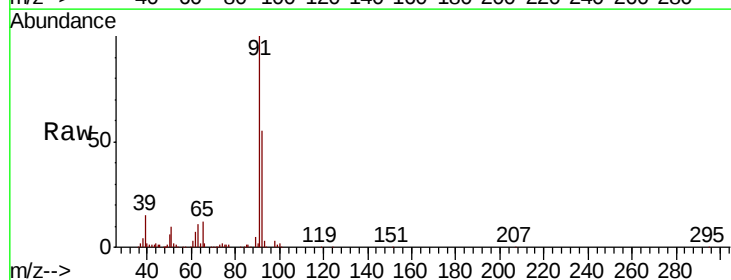
Acq: 9 Oct 2018 21:29

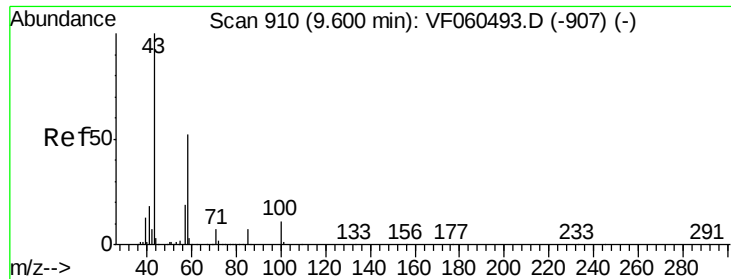
Tgt Ion: 63 Resp: 11914

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





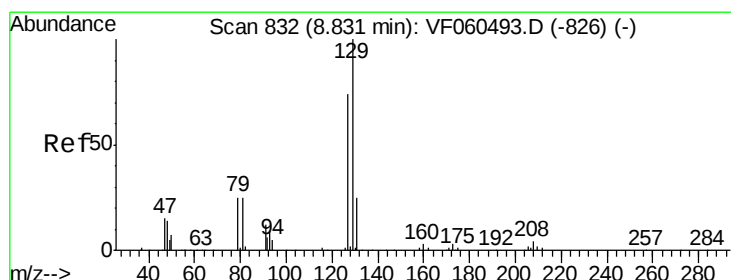
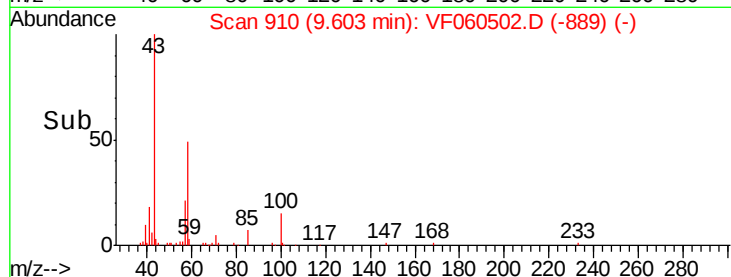
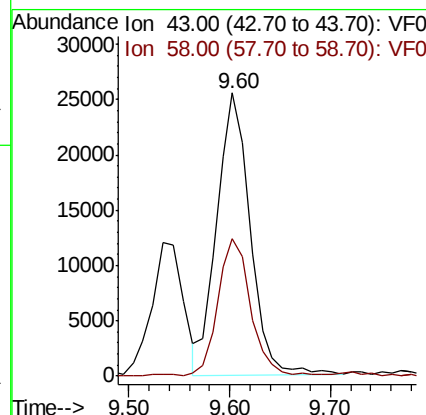
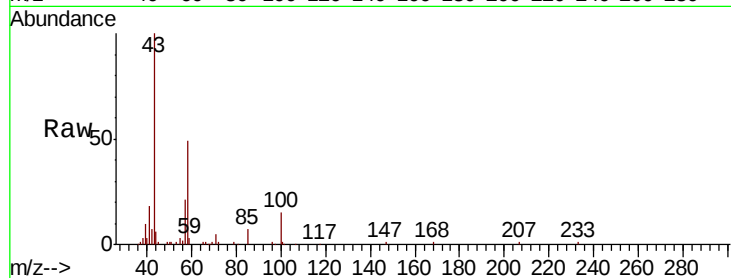
#59
2-Hexanone
Concen: 54.191 ug/l
RT: 9.60 min Scan# 910
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion: 43 Resp: 58472
Ion Ratio Lower Upper
43 100
58 48.7 24.2 72.6

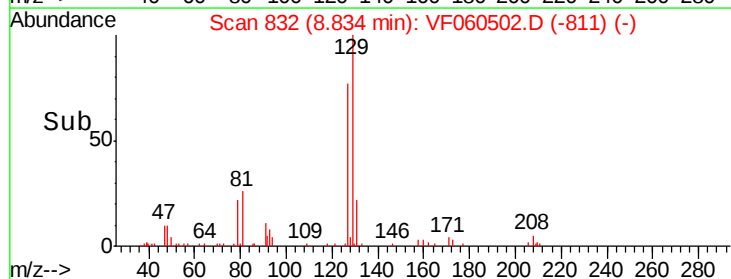
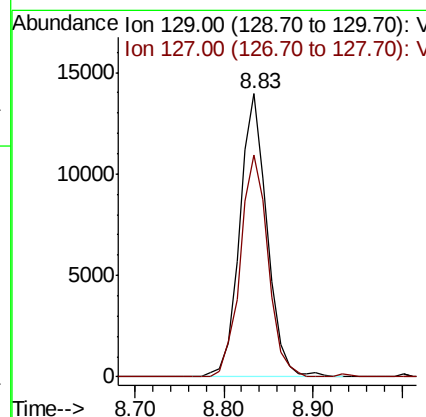
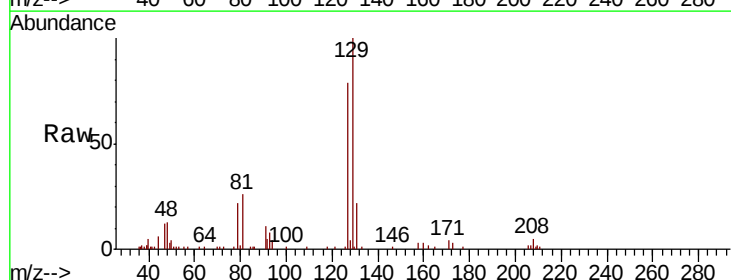
Manual Integrations
APPROVED

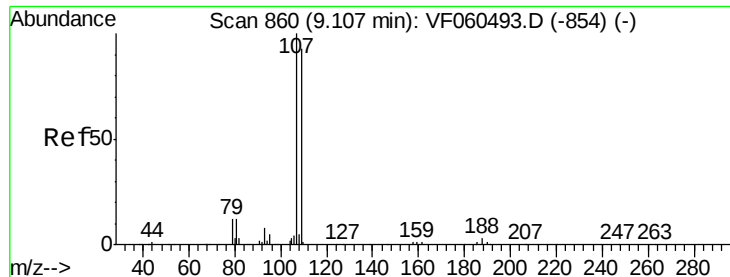
apatel
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#60
Dibromochloromethane
Concen: 9.830 ug/l
RT: 8.83 min Scan# 832
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion: 129 Resp: 29785
Ion Ratio Lower Upper
129 100
127 77.5 37.0 110.9





#61

1,2-Dibromoethane

Concen: 10.643 ug/l

RT: 9.11 min Scan# 860

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:107 Resp: 23214

Ion Ratio Lower Upper

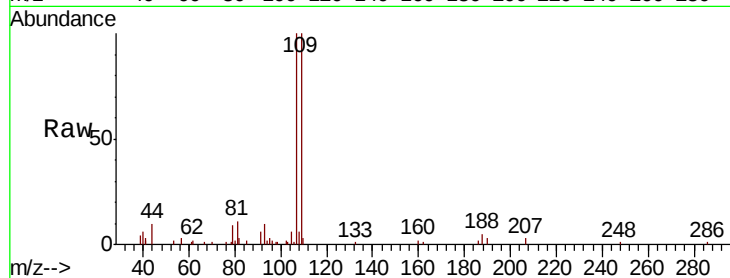
107 100

109 100.2 74.6 112.0

Manual Integrations
APPROVED

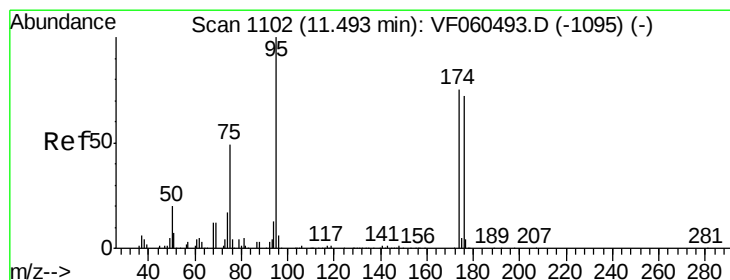
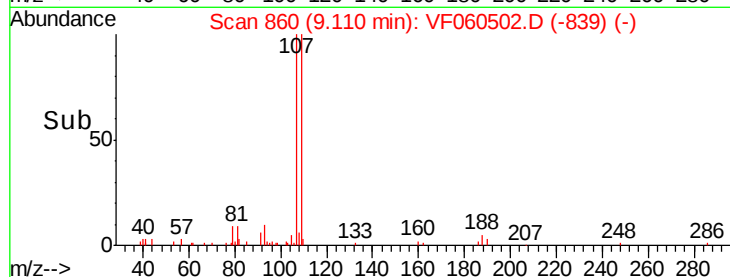
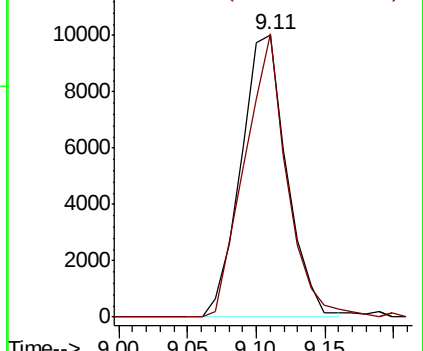
apatel

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.100 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

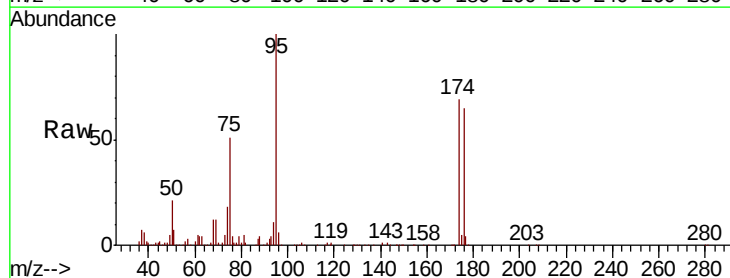
Tgt Ion: 95 Resp: 203086

Ion Ratio Lower Upper

95 100

174 68.8 0.0 150.4

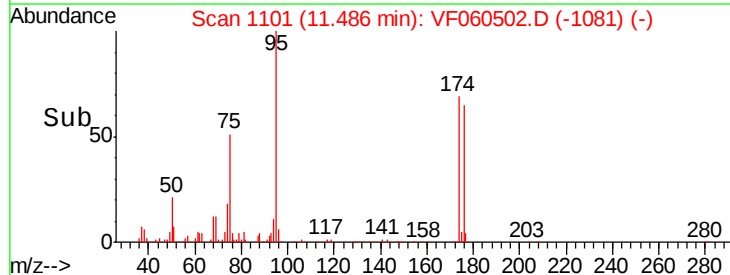
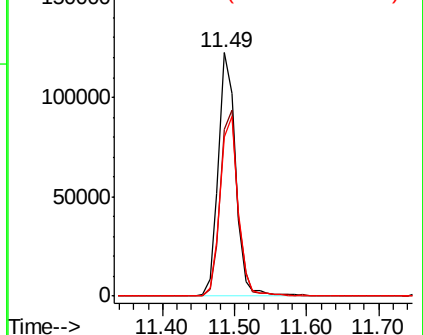
176 65.4 0.0 144.6

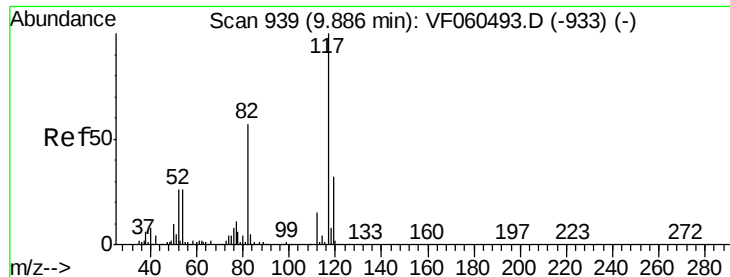


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





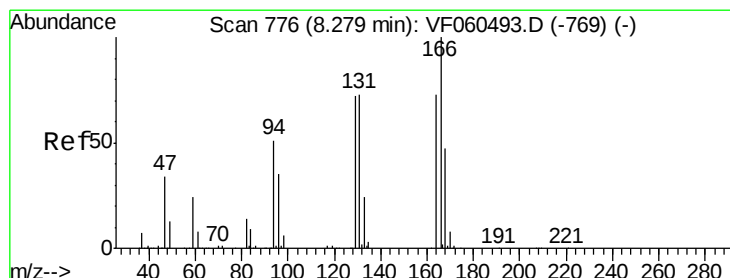
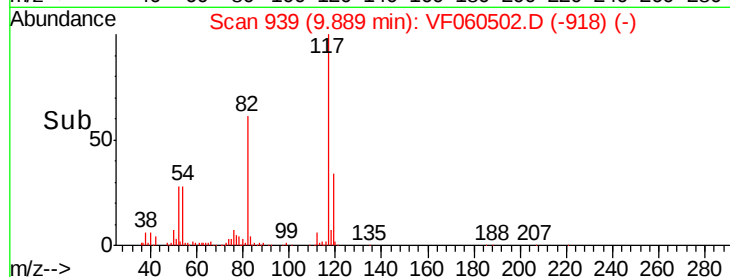
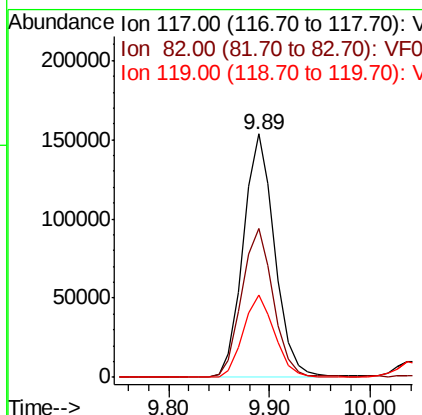
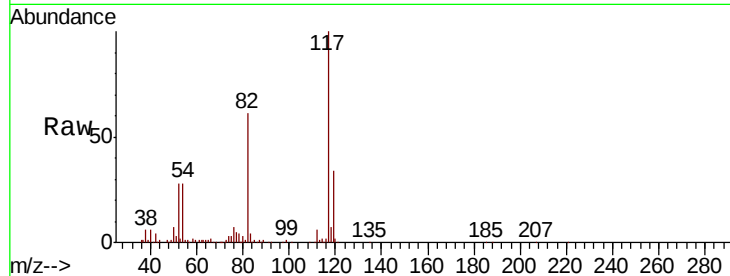
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 939
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.3	45.6	68.4
119	33.7	25.3	37.9

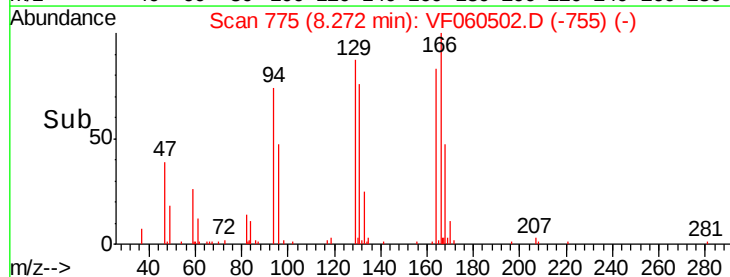
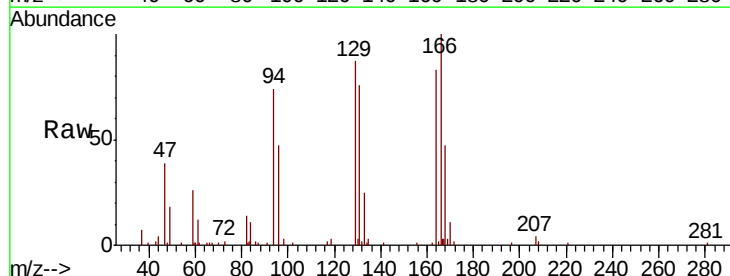
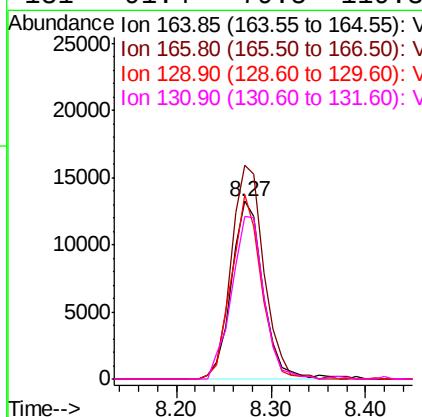
Manual Integrations
APPROVED

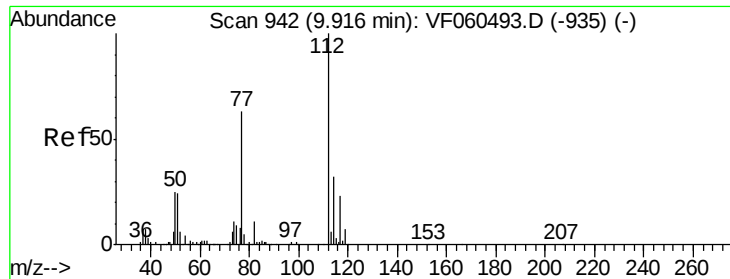
apatel
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#64
Tetrachloroethene
Concen: 11.527 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.2	109.4	164.0
129	104.1	78.9	118.3
131	91.4	79.5	119.3





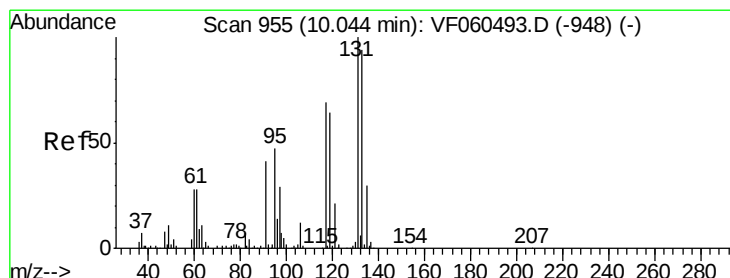
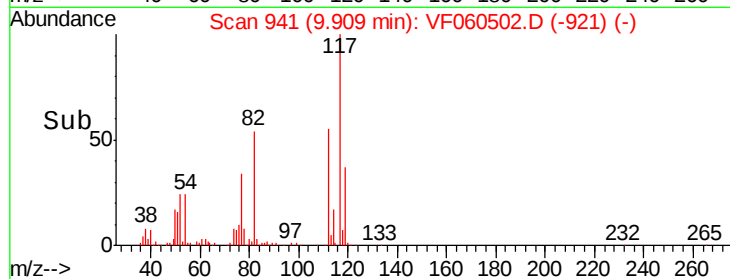
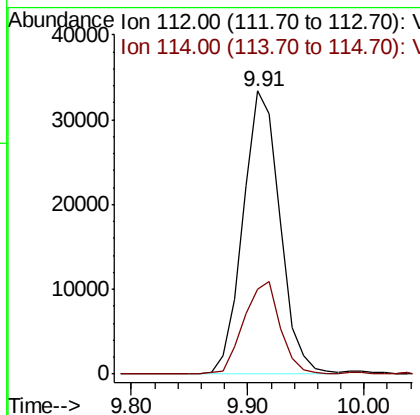
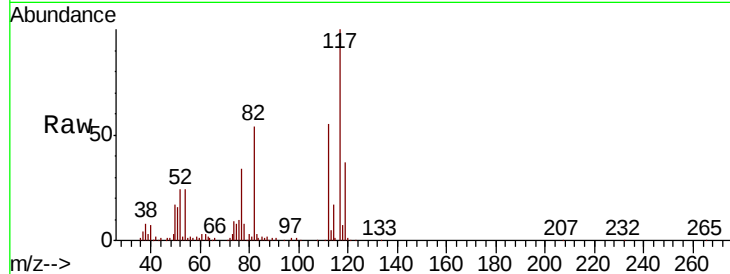
#65
Chlorobenzene
Concen: 11.334 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.2	25.9	38.9

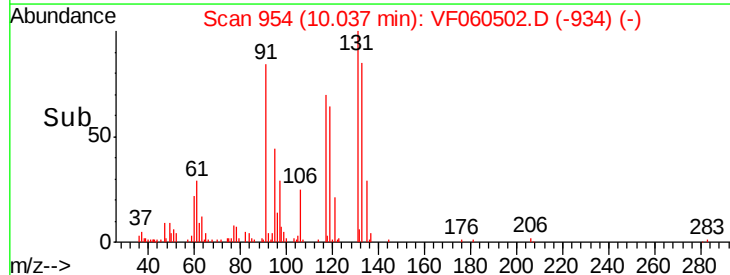
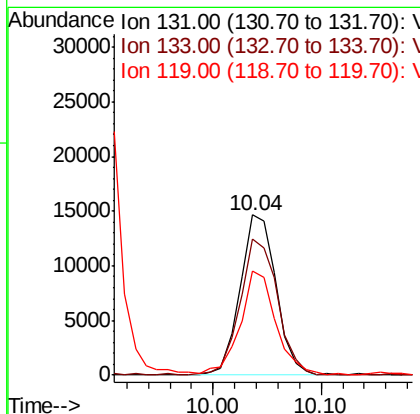
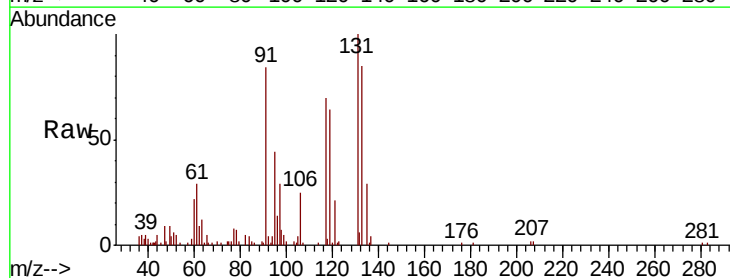
Manual Integrations
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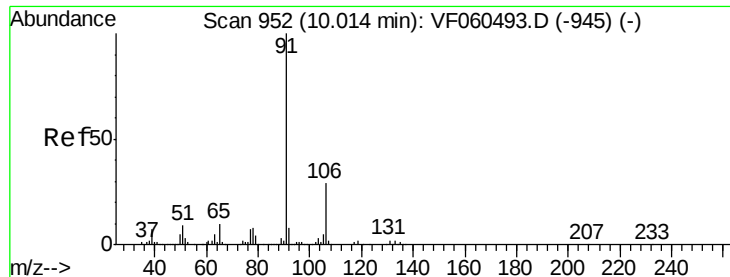
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 11.558 ug/l
RT: 10.04 min Scan# 954
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
131	100		
133	80.5	47.1	141.4
119	61.7	32.0	96.2





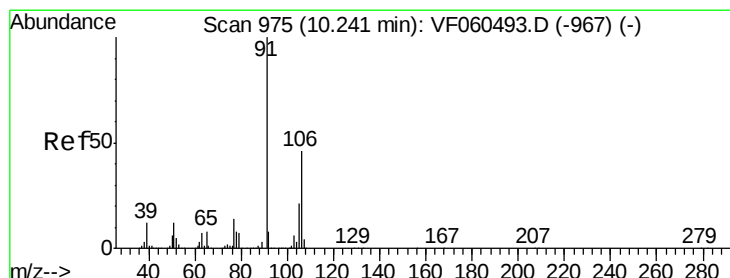
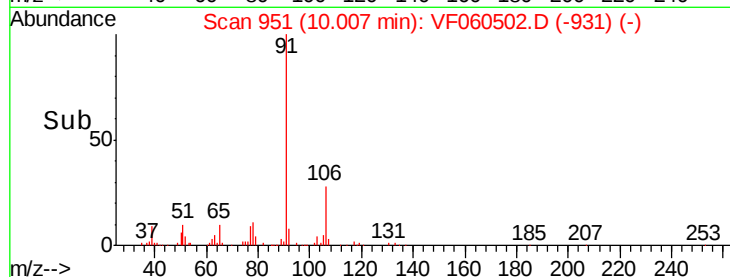
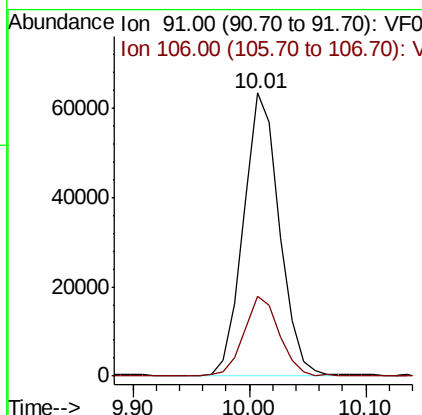
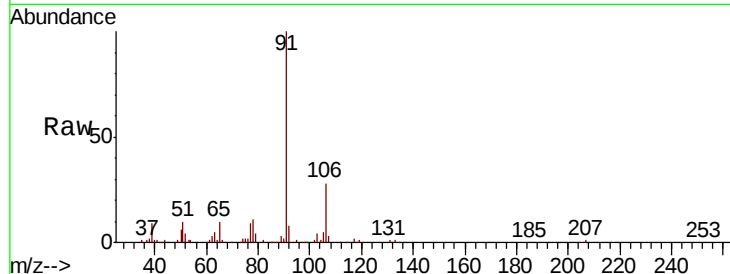
#67
Ethyl Benzene
Concen: 11.084 ug/l
RT: 10.01 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	91	Resp	135674
Ion Ratio	Lower	Upper	
91	100		
106	28.1	23.3	34.9

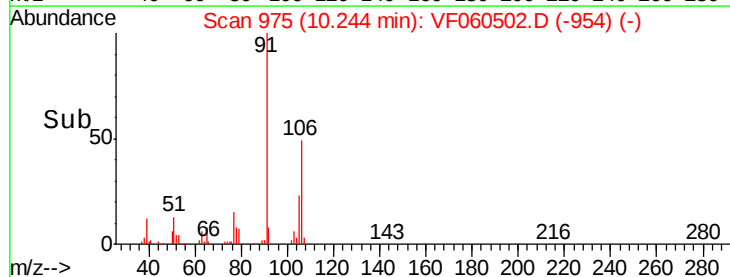
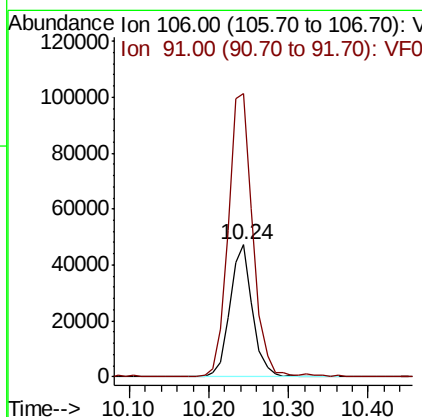
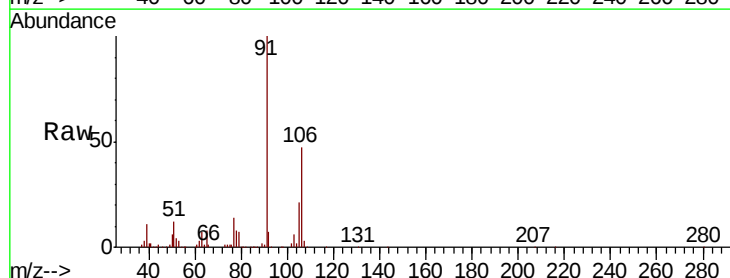
Manual Integrations
APPROVED

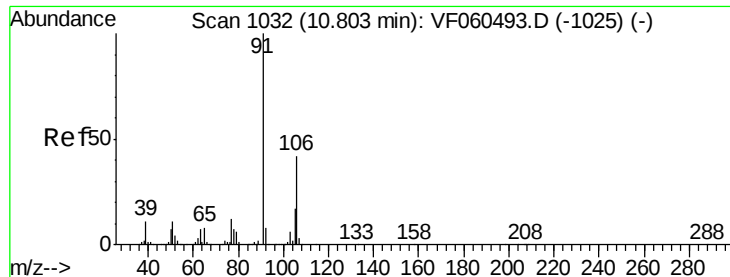
apatel
10/10/2018 12:34:23 PM



#68
m/p-Xylenes
Concen: 22.443 ug/l
RT: 10.24 min Scan# 975
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	106	Resp	93775
Ion Ratio	Lower	Upper	
106	100		
91	214.0	174.6	262.0





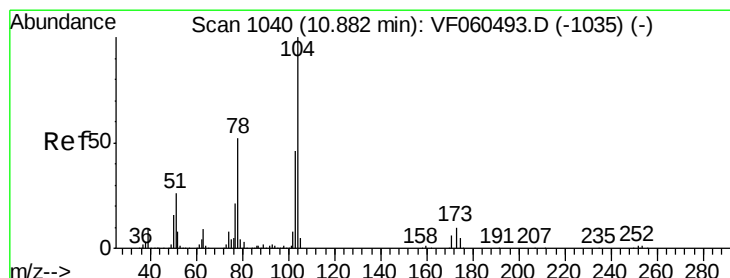
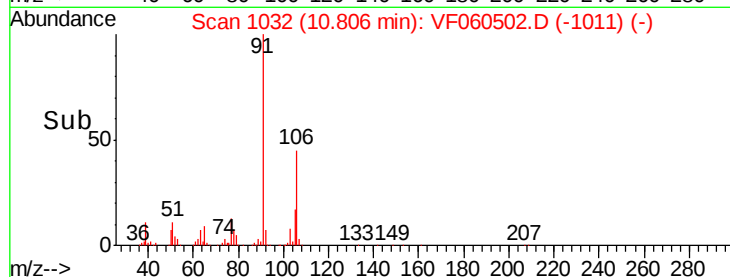
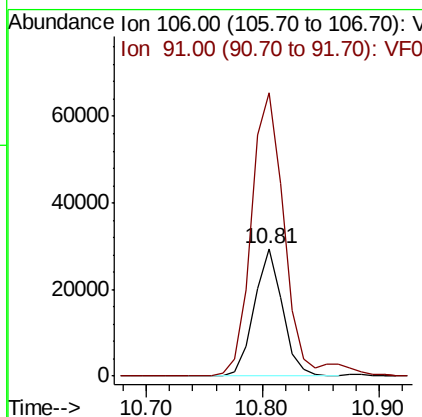
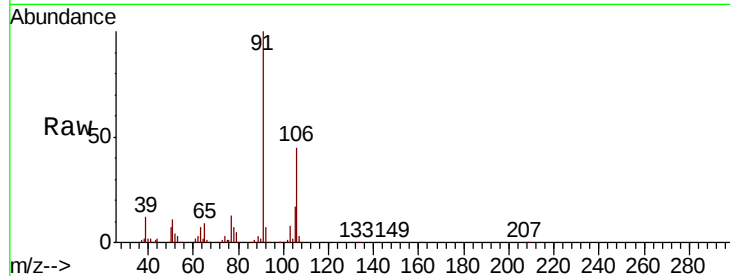
#69
o-Xylene
Concen: 10.890 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion:106 Resp: 49485
Ion Ratio Lower Upper
106 100
91 221.8 118.8 356.3

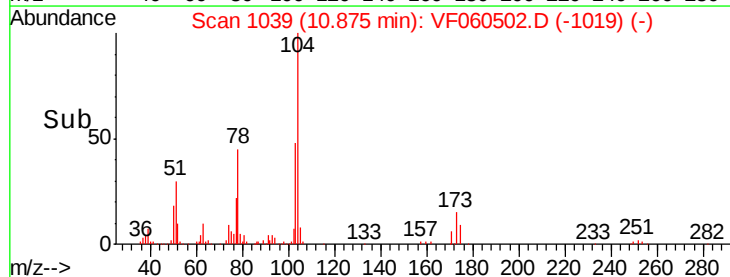
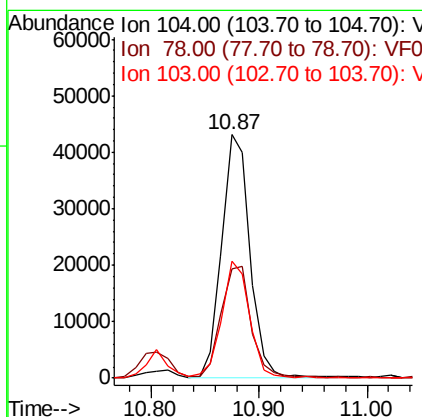
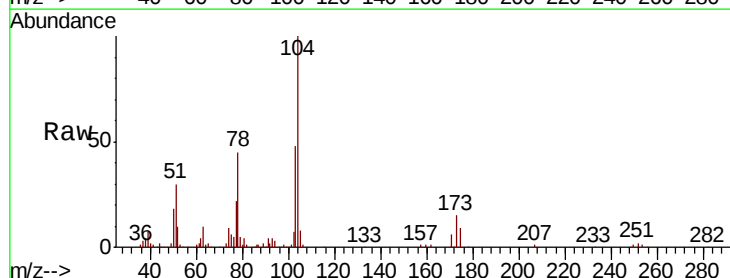
Manual Integrations
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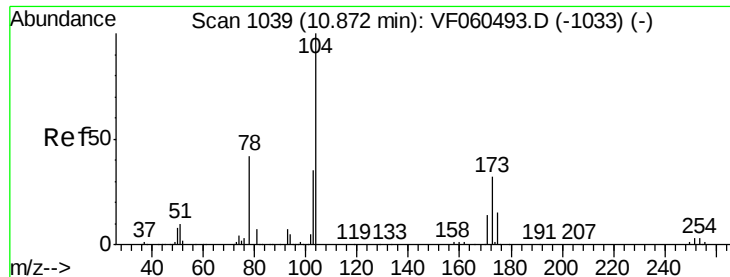
apatel
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#70
Styrene
Concen: 12.013 ug/l
RT: 10.87 min Scan# 1039
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion:104 Resp: 78577
Ion Ratio Lower Upper
104 100
78 44.7 42.7 64.1
103 47.8 37.6 56.4





#71

Bromoform

Concen: 11.339 ug/l

RT: 10.86 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:173 Resp: 16800

Ion Ratio Lower Upper

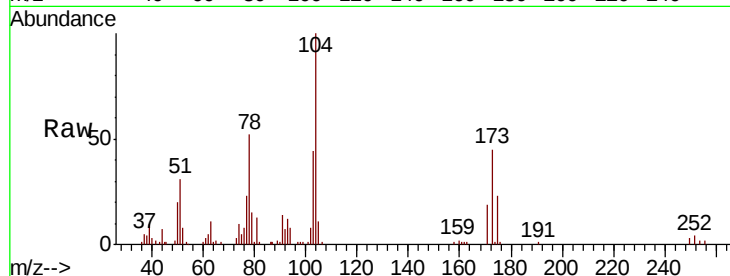
173 100

175 52.1 23.2 69.6

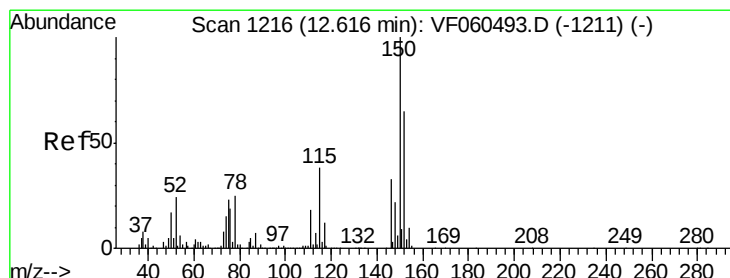
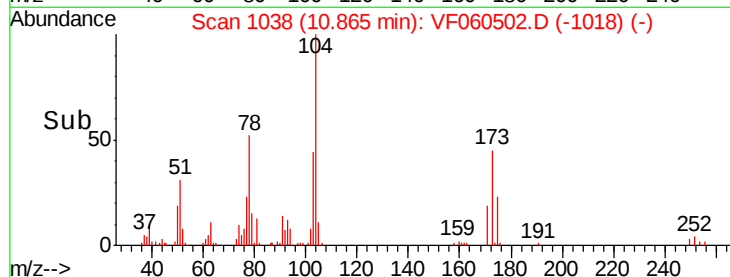
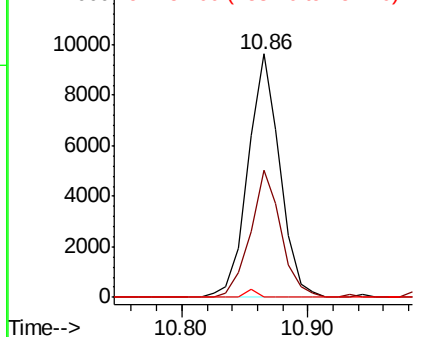
254 0.0 0.2 0.2#

Manual Integrations
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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: VF060502.D

Acq: 9 Oct 2018 21:29

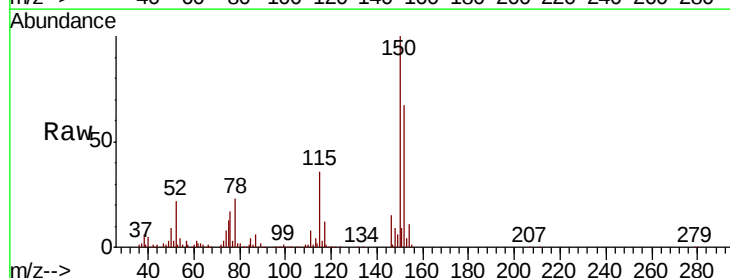
Tgt Ion:152 Resp: 201089

Ion Ratio Lower Upper

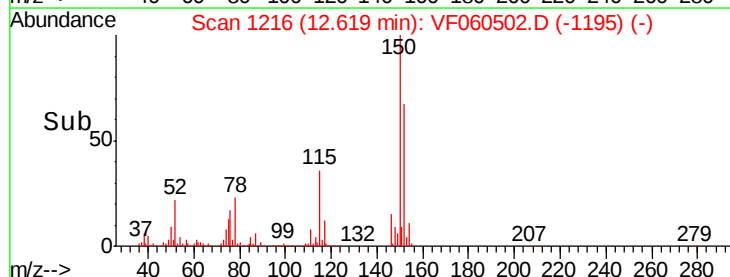
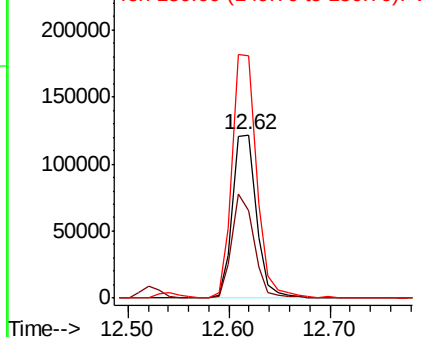
152 100

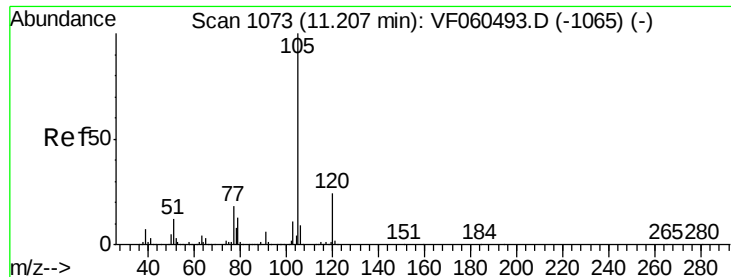
115 53.2 29.5 88.5

150 148.2 0.0 310.0



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 10.843 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 105 Resp: 162077

Ion Ratio Lower Upper

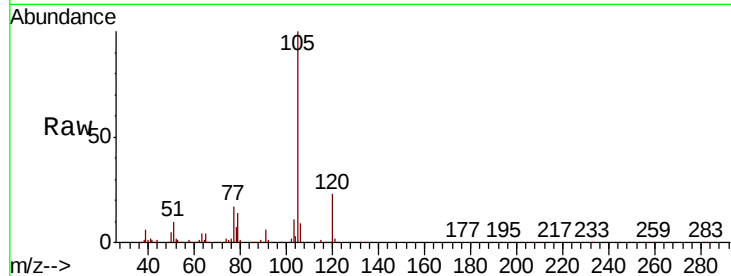
105 100

120 22.6 11.9 35.9

Manual Integrations
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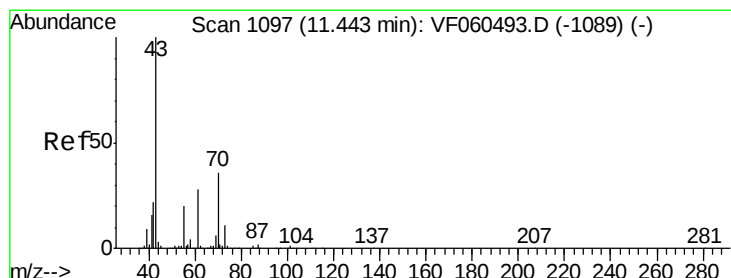
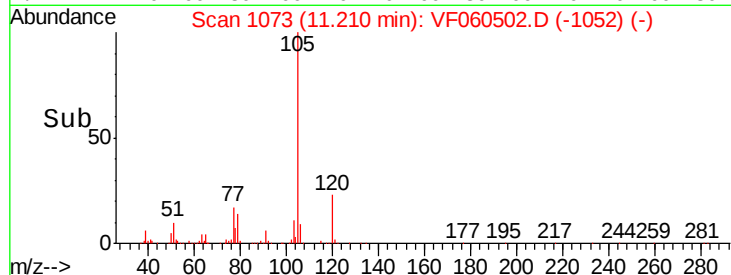
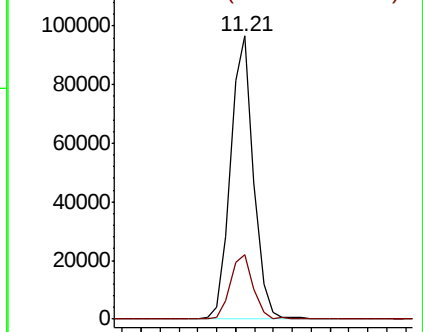
apatel

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 10.871 ug/l

RT: 11.45 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion: 43 Resp: 35370

Ion Ratio Lower Upper

43 100

70 36.8 28.7 43.1

55 20.1 16.1 24.1

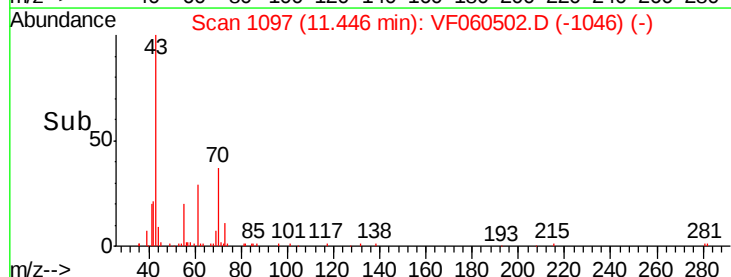
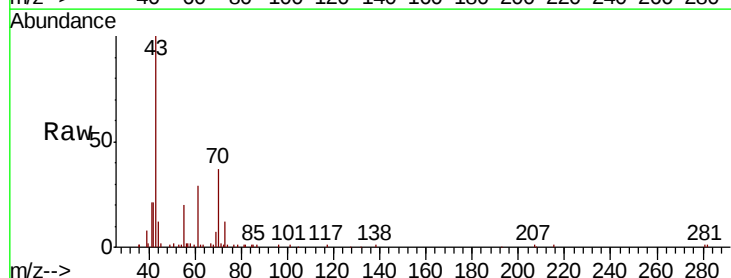
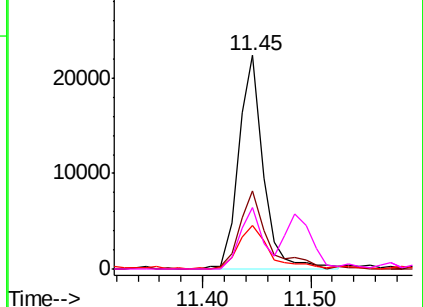
61 28.7 22.7 34.1

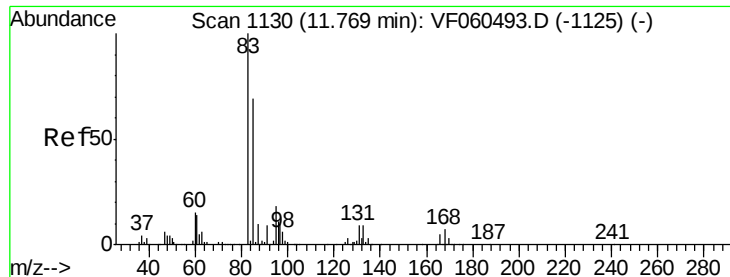
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 10.748 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

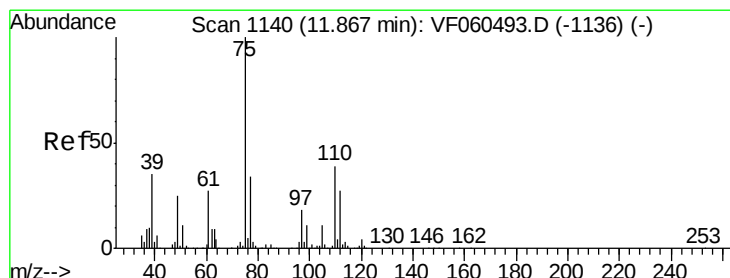
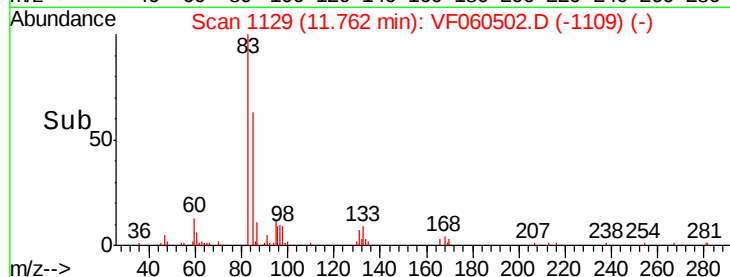
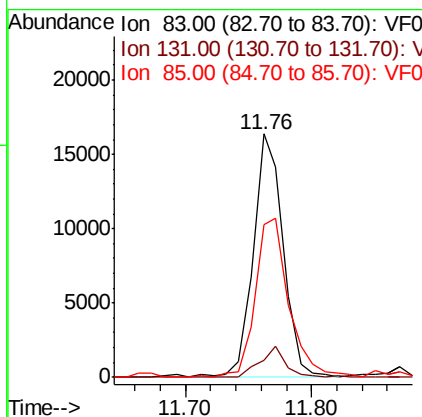
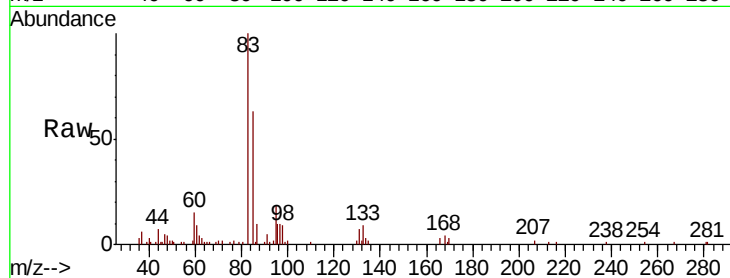
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	83	Resp:	27002
Ion Ratio	Lower	Upper	
83	100		
131	7.2	4.5	13.4
85	62.6	34.8	104.4

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 11.086 ug/l

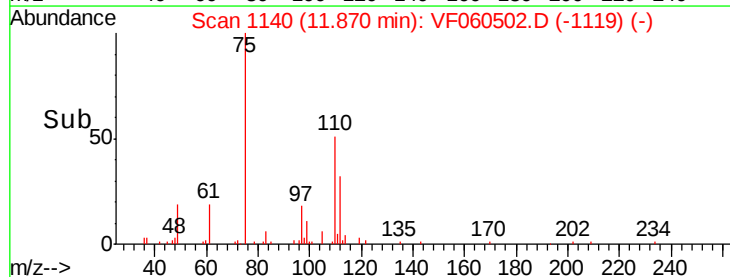
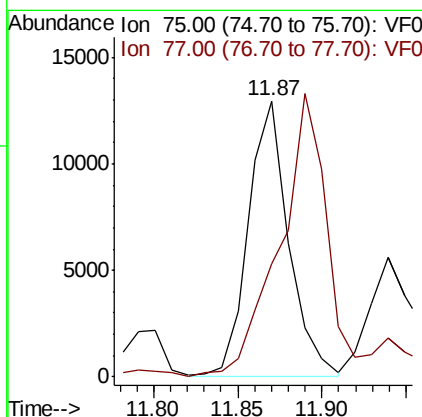
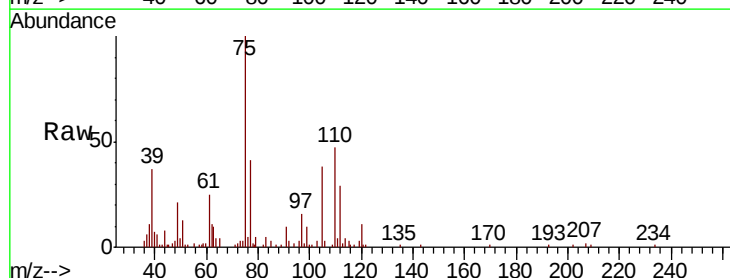
RT: 11.87 min Scan# 1140

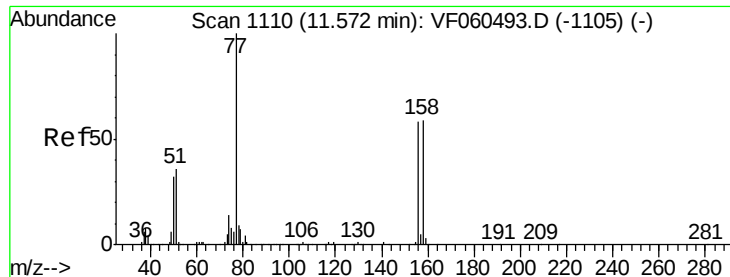
Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	75	Resp:	21532
Ion Ratio	Lower	Upper	
75	100		
77	41.3	17.4	52.2





#77

Bromobenzene

Concen: 10.404 ug/l

RT: 11.57 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

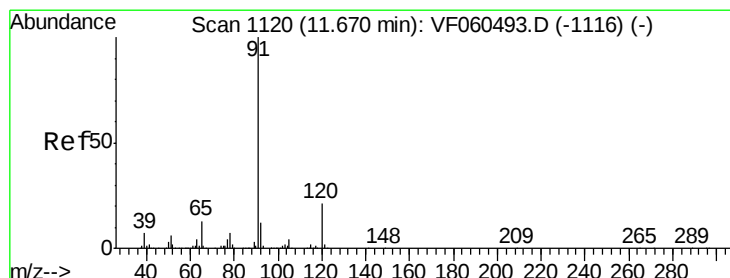
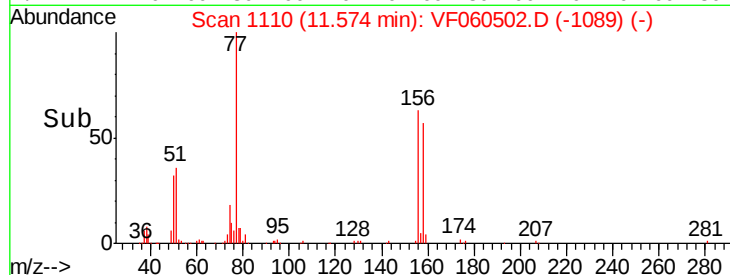
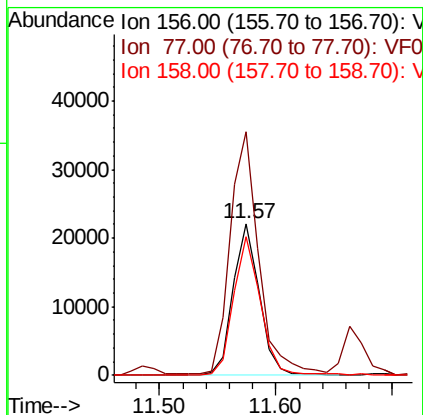
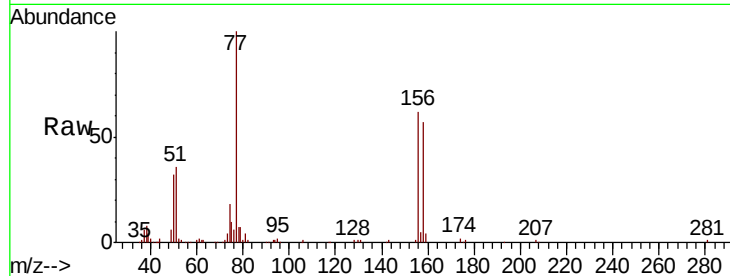
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	156	Resp:	34561
Ion	Ratio	Lower	Upper
156	100		
77	160.1	86.3	258.8
158	91.3	51.1	153.3

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#78

n-propylbenzene

Concen: 11.236 ug/l

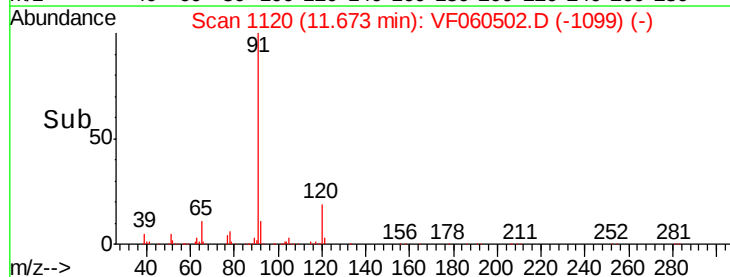
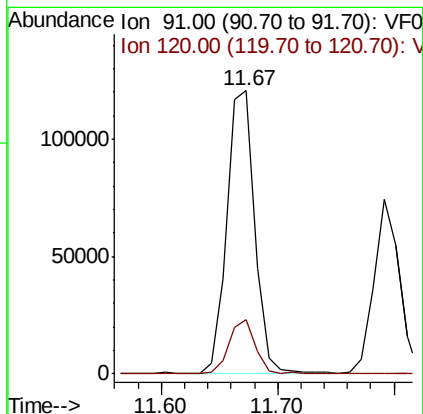
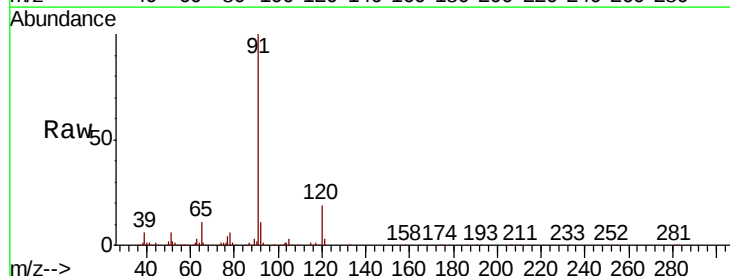
RT: 11.67 min Scan# 1120

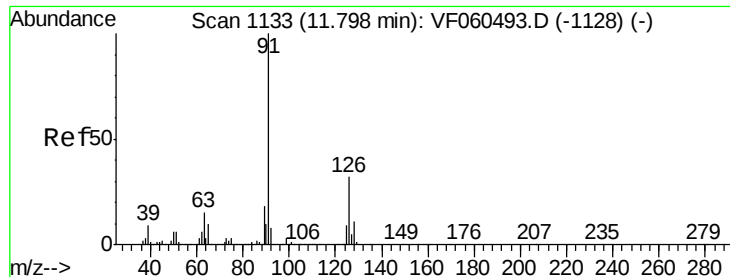
Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	91	Resp:	200028
Ion	Ratio	Lower	Upper
91	100		
120	19.0	10.5	31.6





#79

2-Chlorotoluene

Concen: 10.706 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion: 91 Resp: 111582

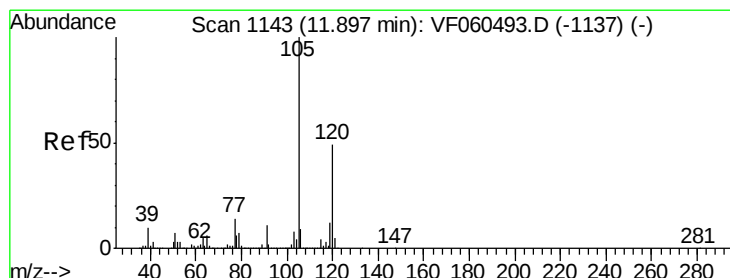
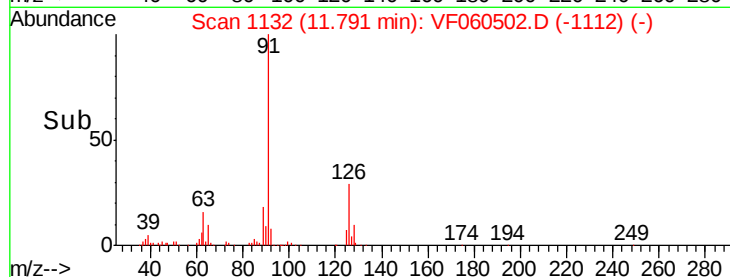
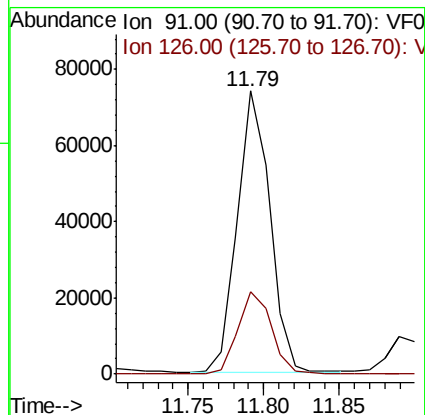
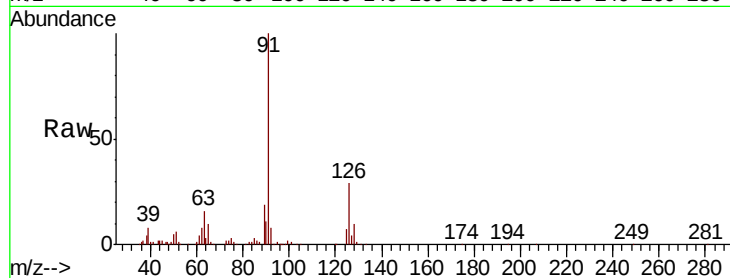
Ion Ratio Lower Upper

91 100

126 29.3 16.1 48.3

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#80

1,3,5-Trimethylbenzene

Concen: 10.804 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF060502.D

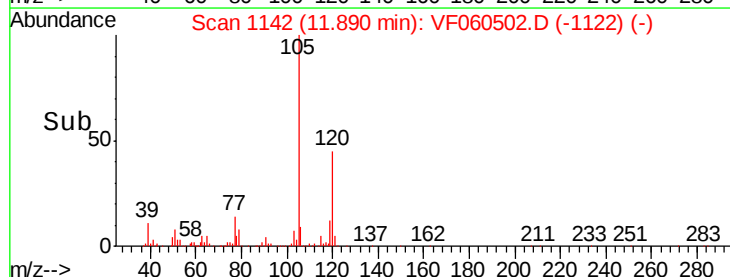
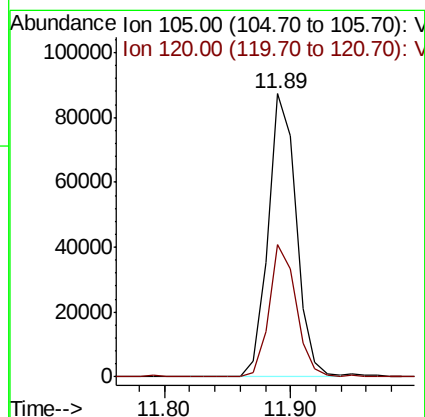
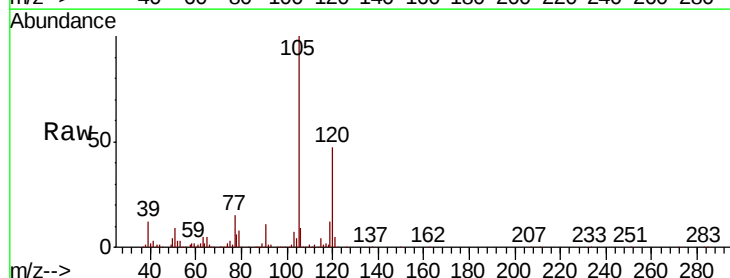
Acq: 9 Oct 2018 21:29

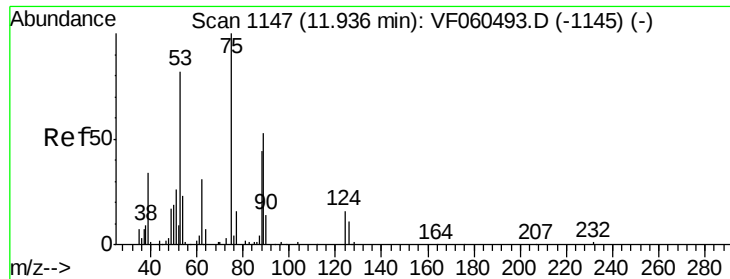
Tgt Ion: 105 Resp: 135476

Ion Ratio Lower Upper

105 100

120 46.8 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 16.405 ug/l

RT: 11.94 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Instrument :

MSVOA_F

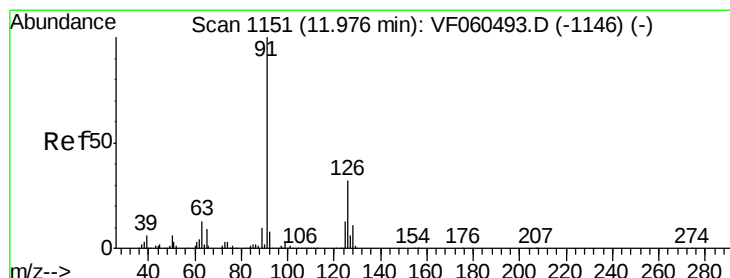
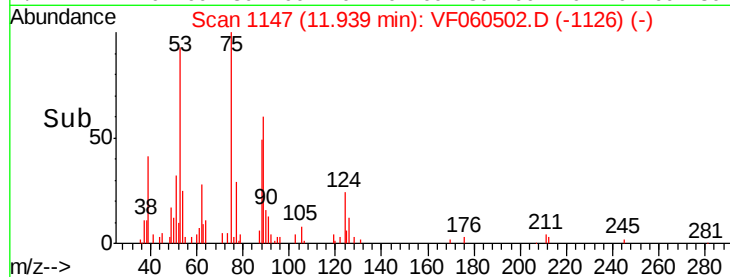
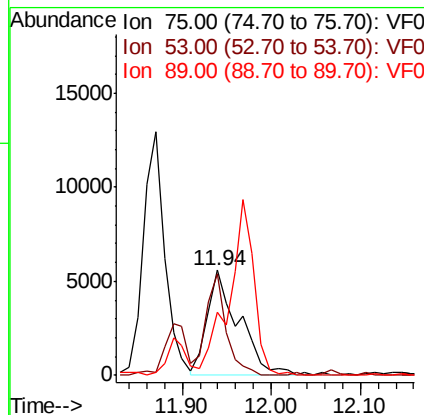
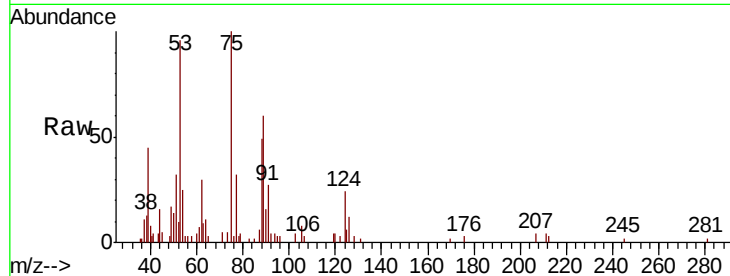
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:	75	Resp:	13892
Ion Ratio	Lower	Upper	
75	100		
53	95.9	71.0	106.6
89	59.9	43.1	64.7

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#82

4-Chlorotoluene

Concen: 10.848 ug/l

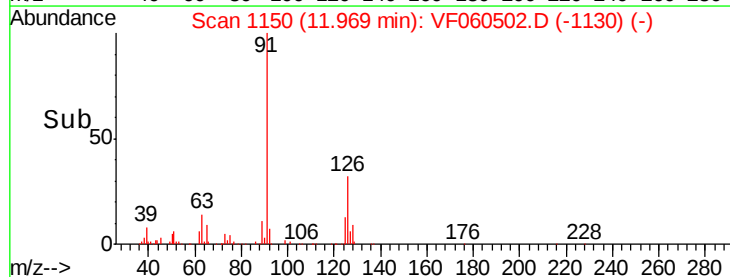
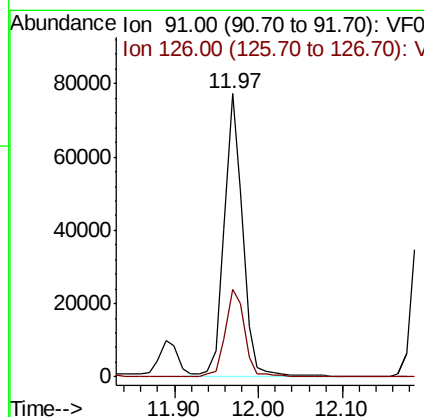
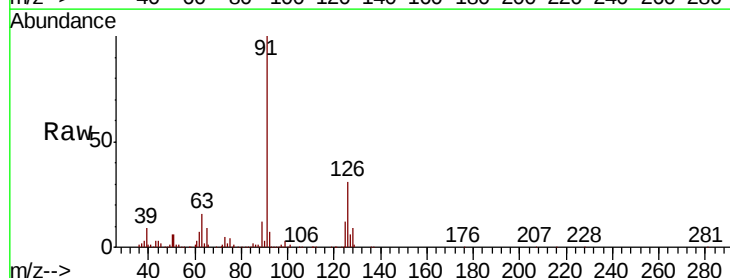
RT: 11.97 min Scan# 1150

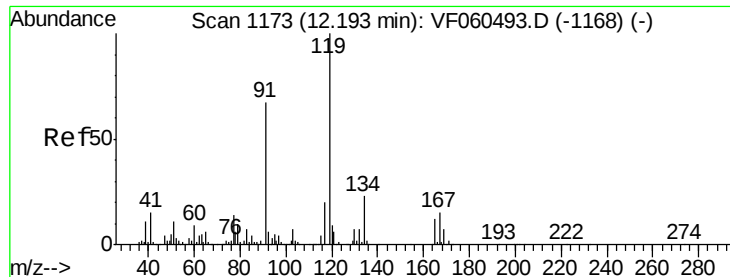
Delta R.T. -0.01 min

Lab File: VF060502.D

Acq: 9 Oct 2018 21:29

Tgt Ion:	91	Resp:	116641
Ion Ratio	Lower	Upper	
91	100		
126	30.8	16.0	47.9





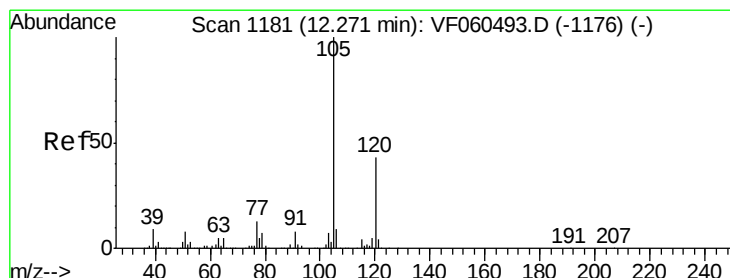
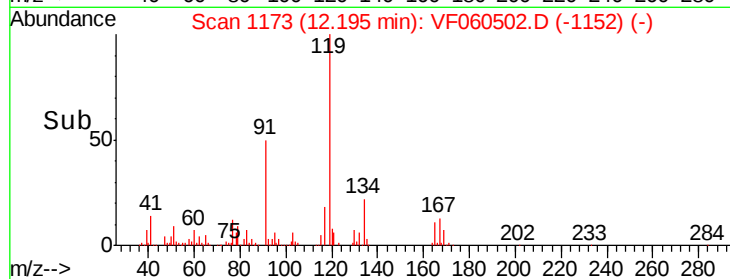
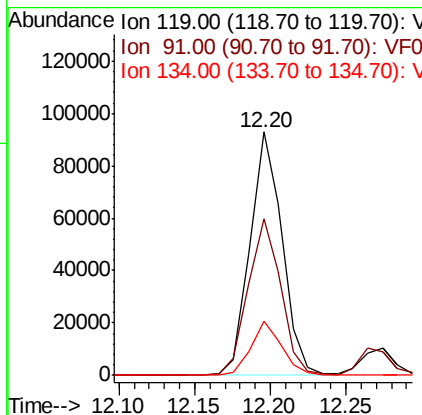
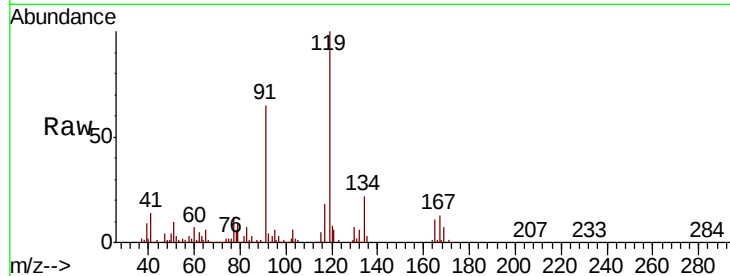
#83
 tert-Butylbenzene
 Concen: 10.933 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	137817		
91	64.5	33.6	100.8	
134	22.2	11.5	34.5	

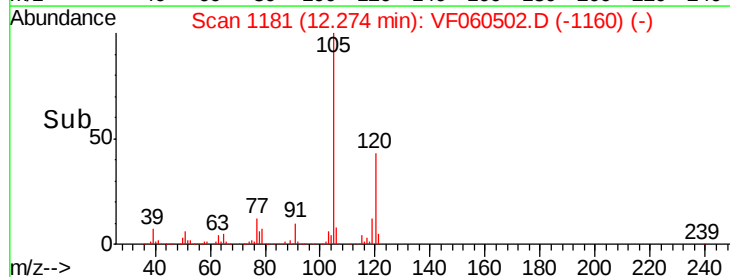
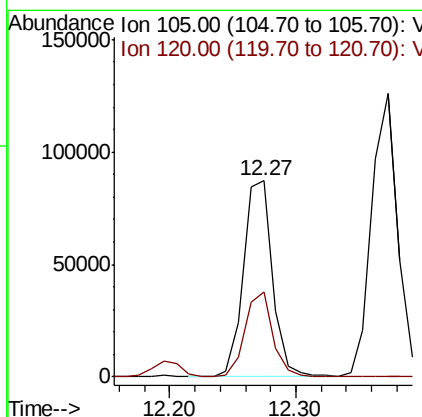
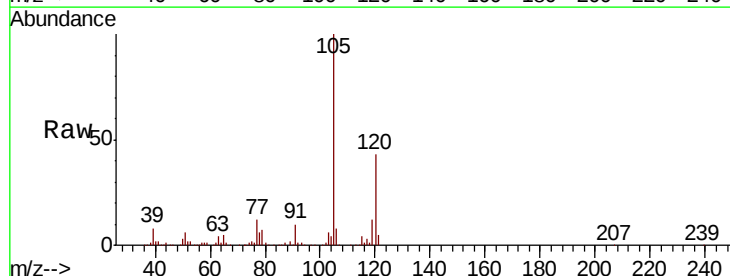
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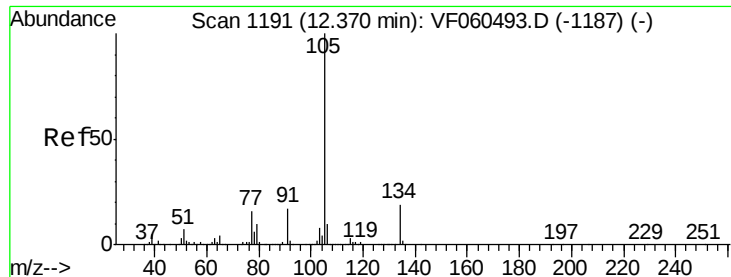
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#84
 1,2,4-Trimethylbenzene
 Concen: 10.882 ug/l
 RT: 12.27 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	138536		
120	43.2	21.7	65.1	





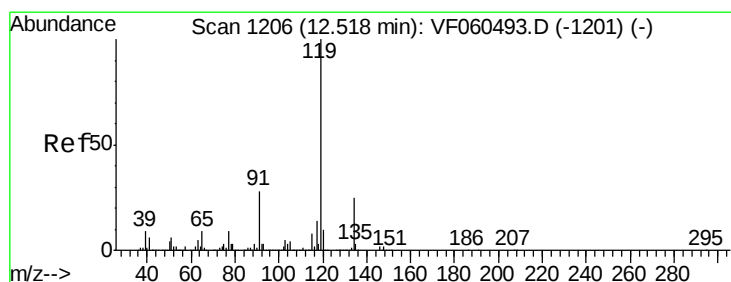
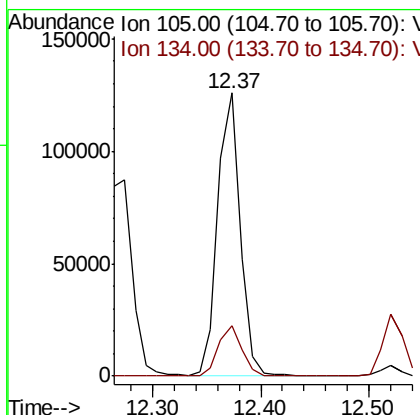
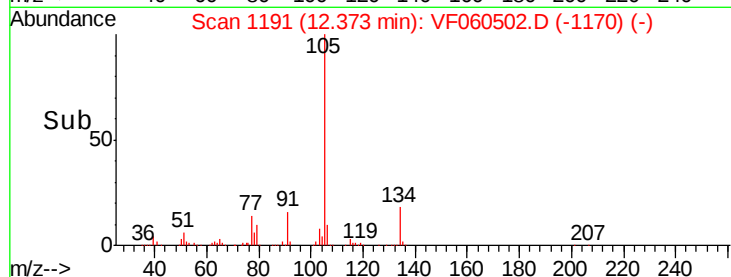
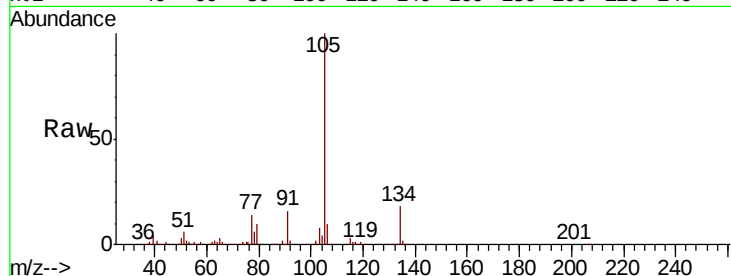
#85
 sec-Butylbenzene
 Concen: 10.730 ug/l
 RT: 12.37 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.6	9.3	27.9

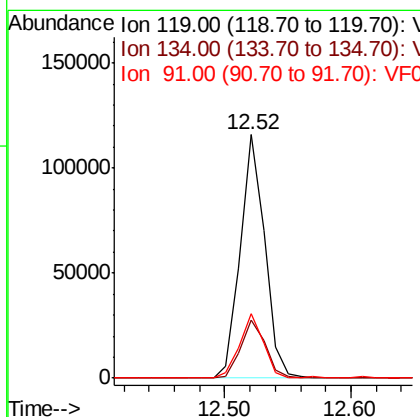
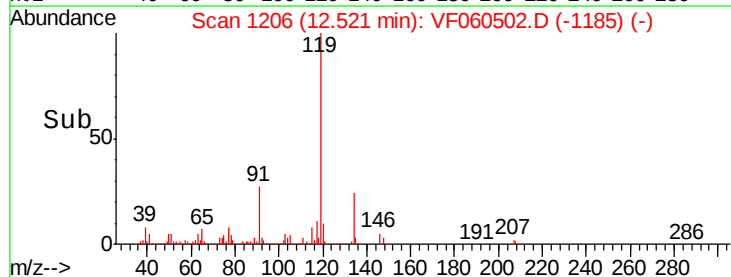
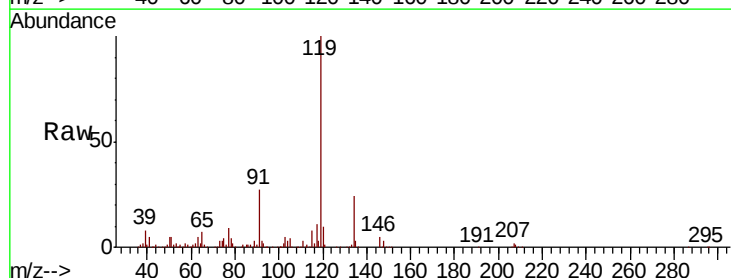
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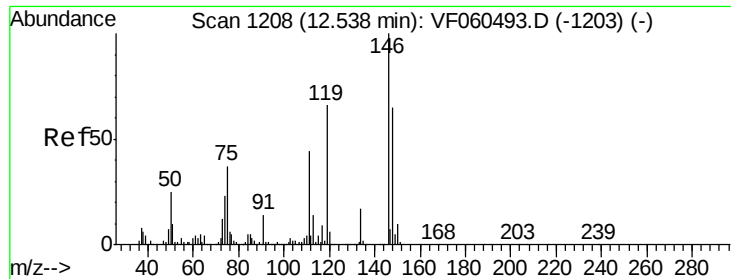
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#86
 p-Isopropyltoluene
 Concen: 11.085 ug/l
 RT: 12.52 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.8	12.6	37.6
91	26.7	14.1	42.4





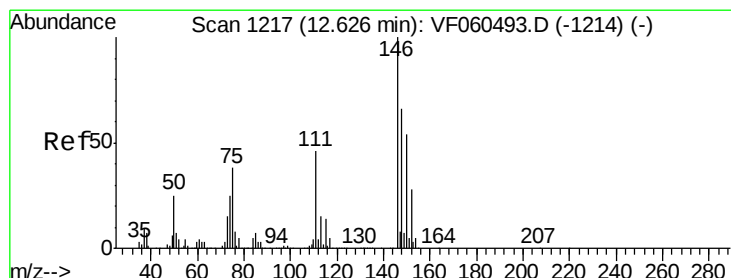
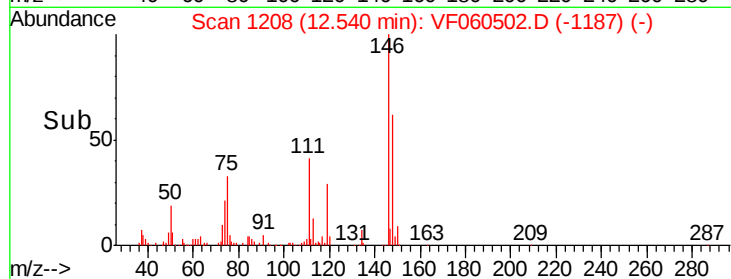
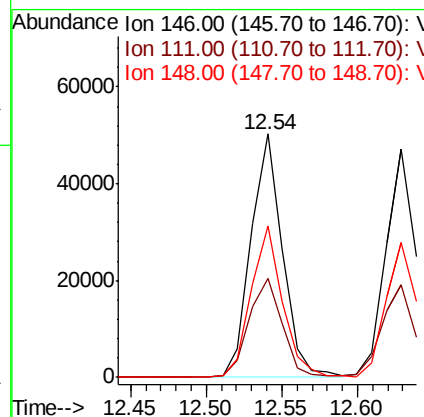
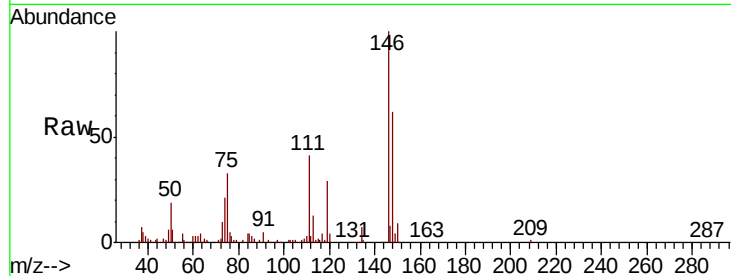
#87
 1,3-Dichlorobenzene
 Concen: 11.580 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	22.2	66.6
148	62.5	32.7	98.1

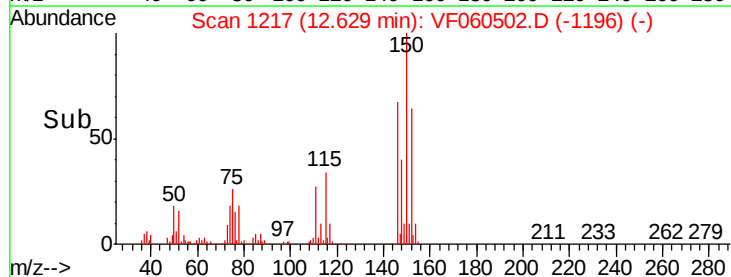
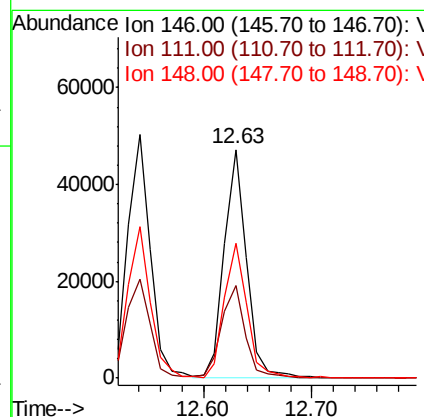
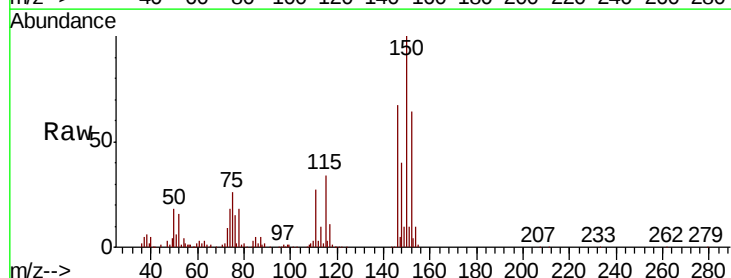
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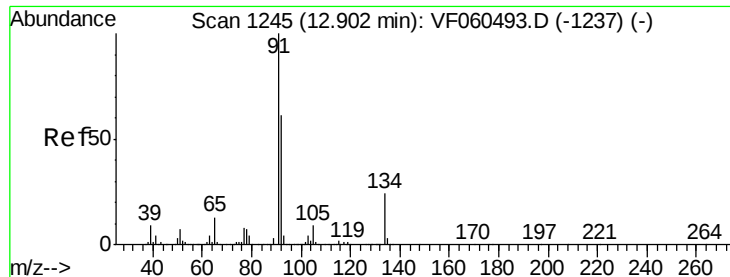
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#88
 1,4-Dichlorobenzene
 Concen: 11.014 ug/l
 RT: 12.63 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	23.2	69.6
148	59.3	33.3	99.9





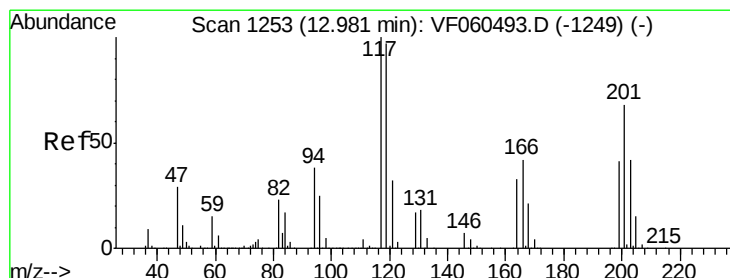
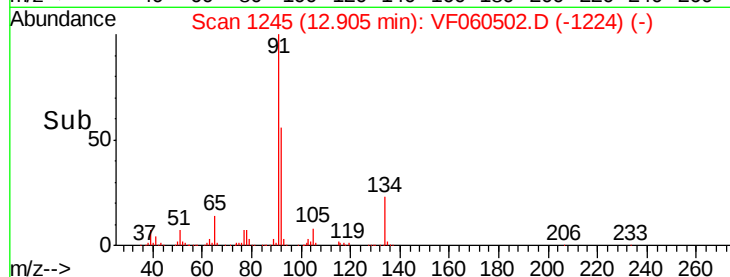
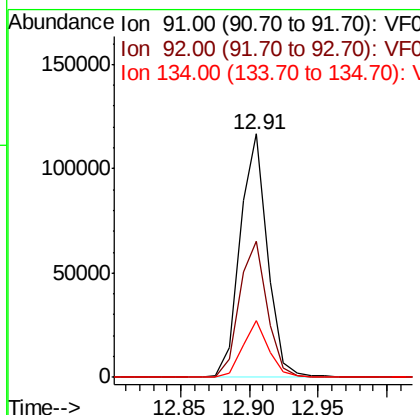
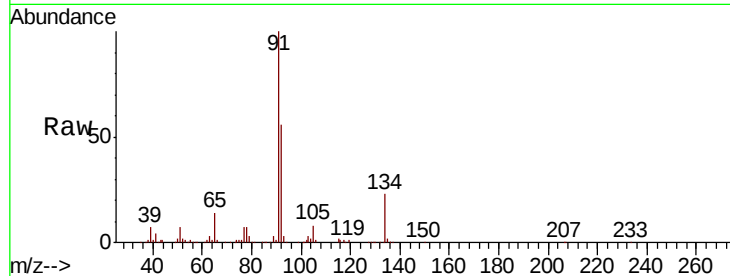
#89
n-Butylbenzene
Concen: 10.917 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.1	30.8	92.3
134	23.3	12.1	36.3

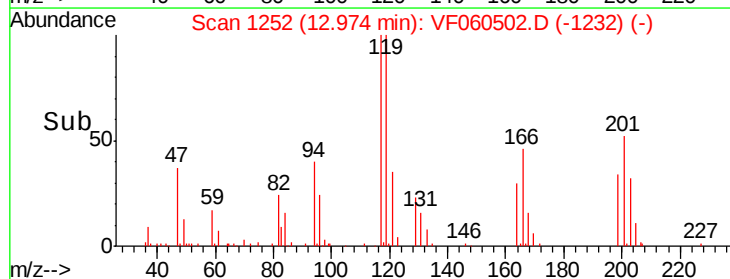
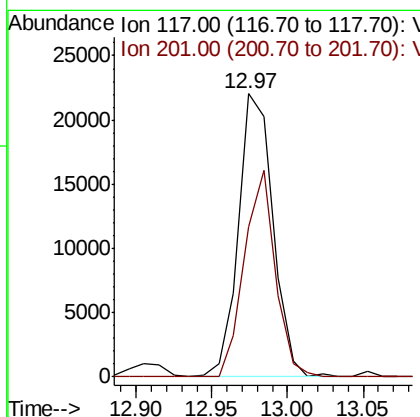
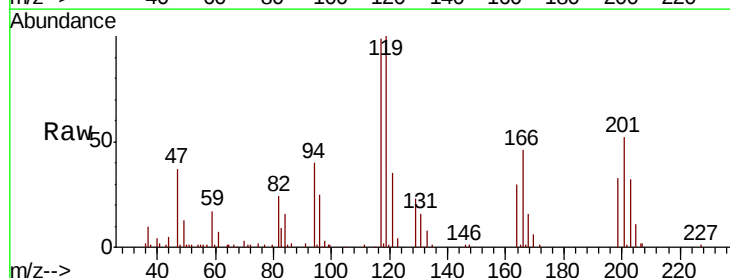
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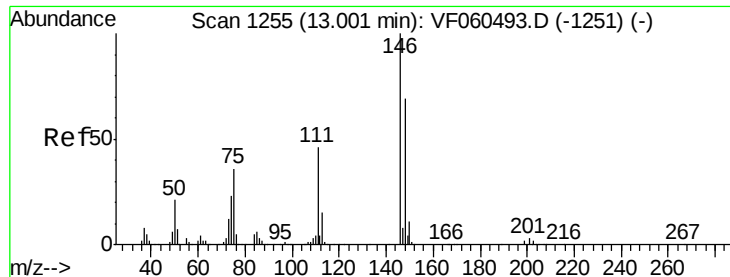
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#90
Hexachloroethane
Concen: 10.436 ug/l
RT: 12.97 min Scan# 1252
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.1	34.0	102.0





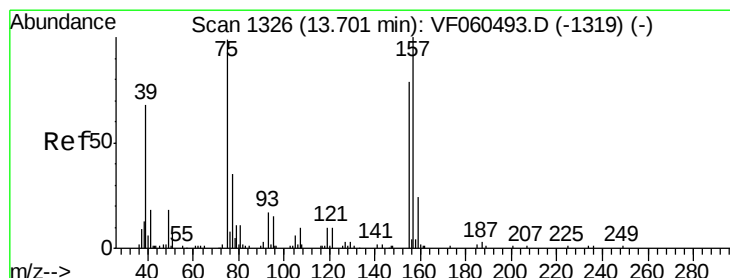
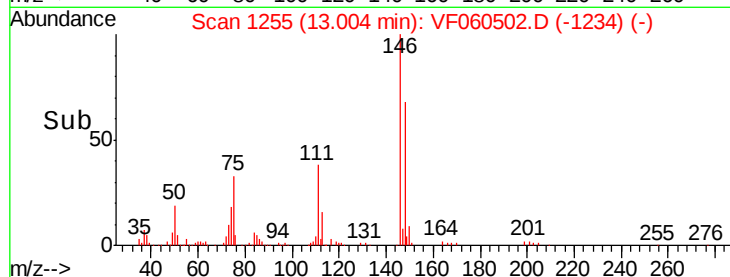
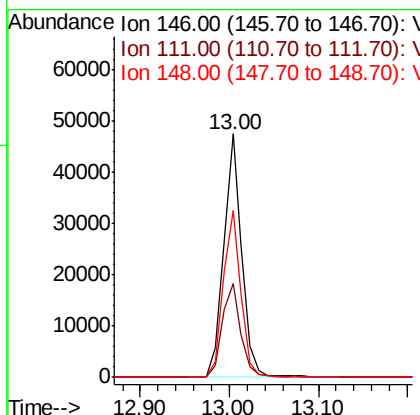
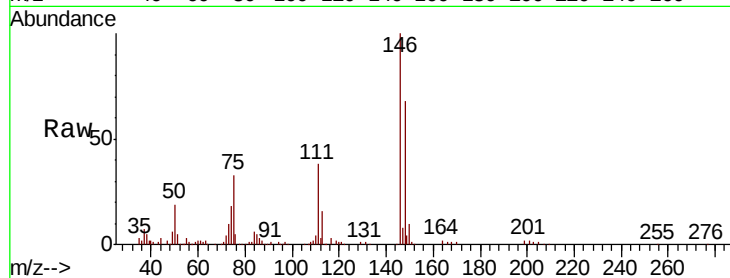
#91
 1,2-Dichlorobenzene
 Concen: 11.207 ug/l
 RT: 13.00 min Scan# 1255
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	22.9	68.7
148	68.4	34.5	103.5

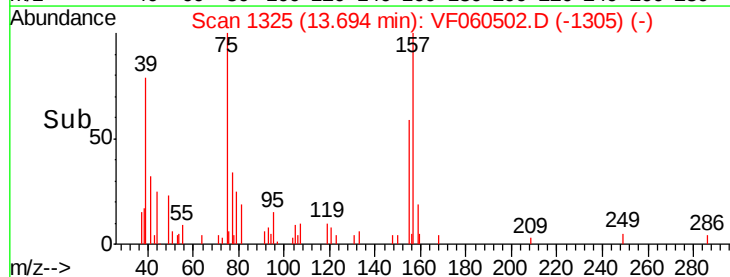
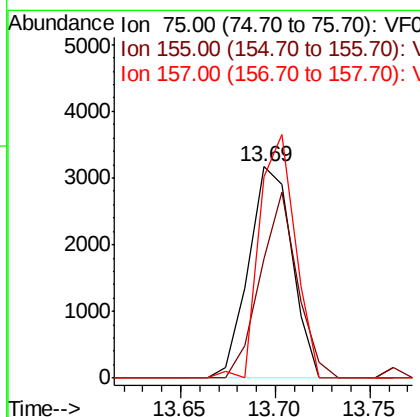
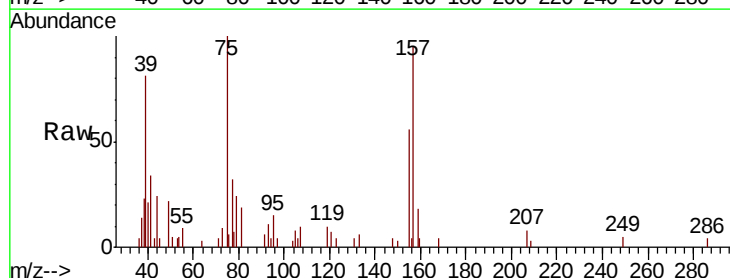
Manual Integrations
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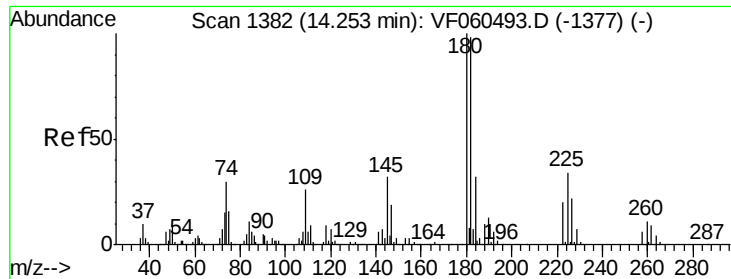
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 10/10/2018 12:34:23 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.421 ug/l
 RT: 13.69 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	56.4	40.6	121.7
157	95.4	50.8	152.5





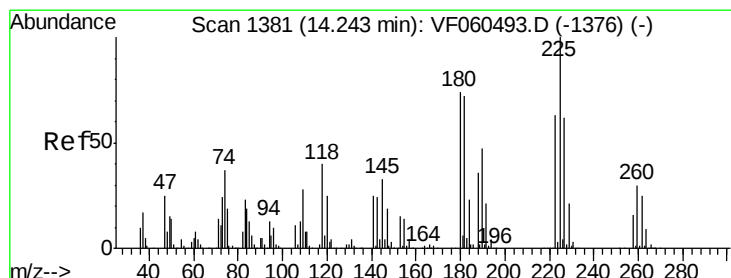
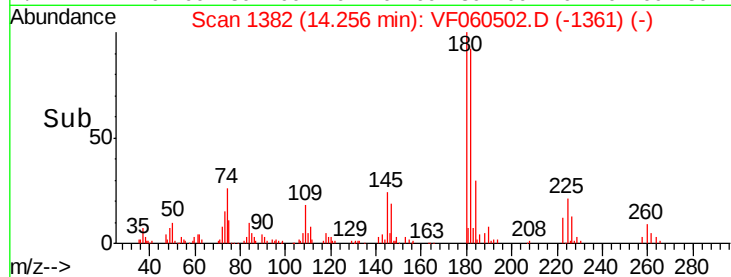
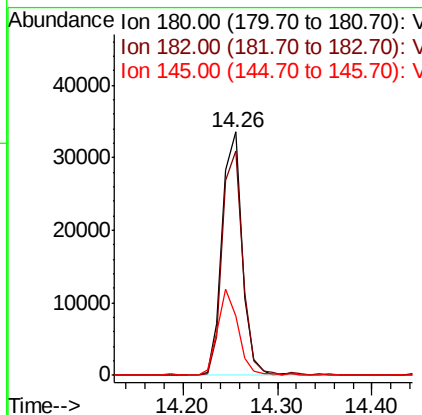
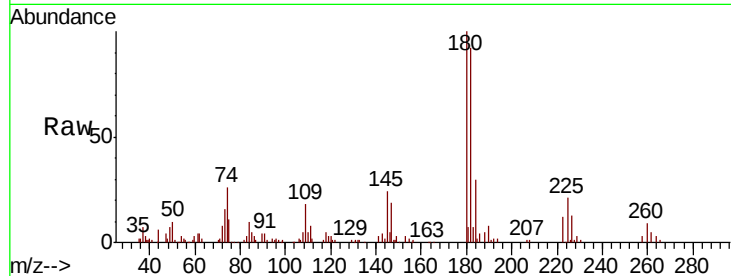
#93
 1,2,4-Trichlorobenzene
 Concen: 10.533 ug/l
 RT: 14.26 min Scan# 1382
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Resp	Lower	Upper
180	100	49546		
182	92.3		48.9	146.8
145	24.4		16.2	48.5

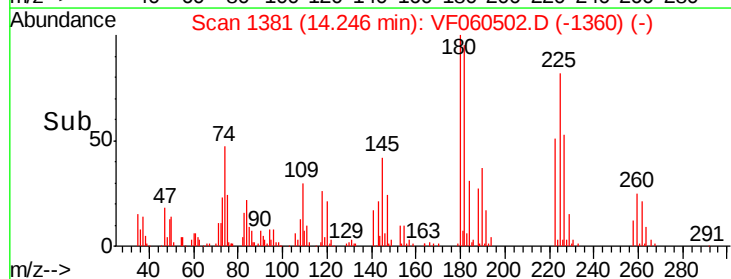
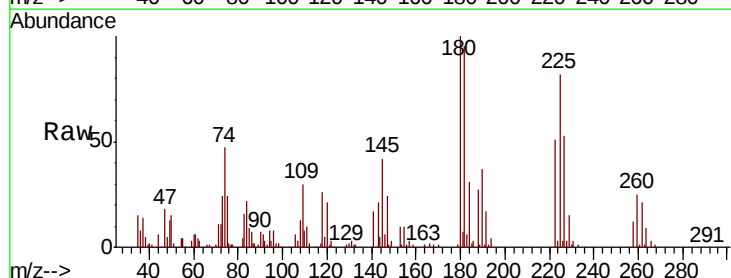
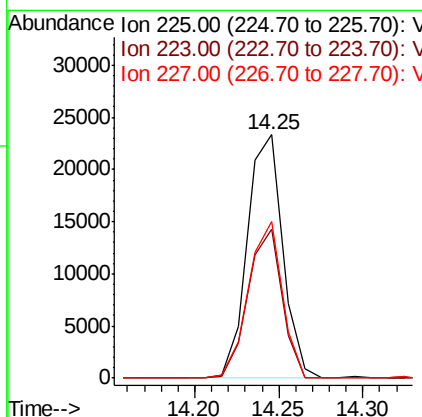
Manual Integrations
 APPROVED

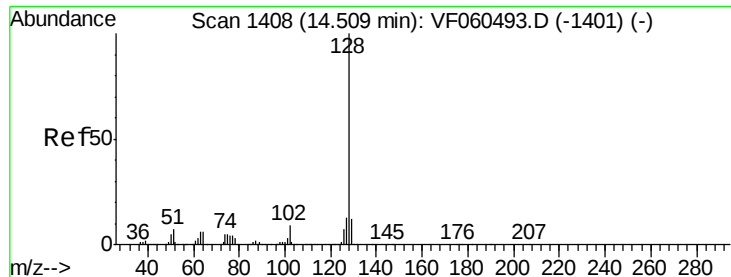
apatel
 10/10/2018 12:34:23 PM



#94
 Hexachlorobutadiene
 Concen: 10.669 ug/l
 RT: 14.25 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VF060502.D
 Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	34119		
223	61.4		31.4	94.2
227	64.5		30.9	92.7





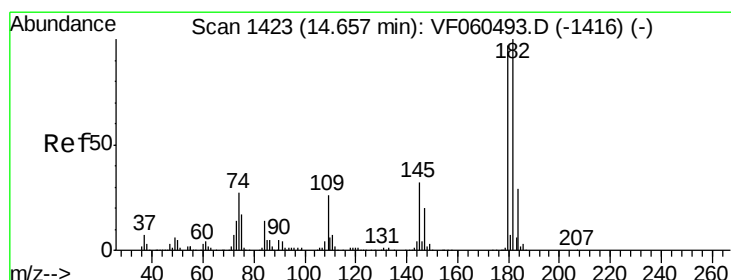
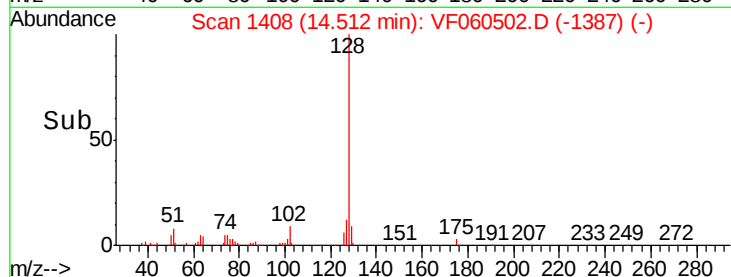
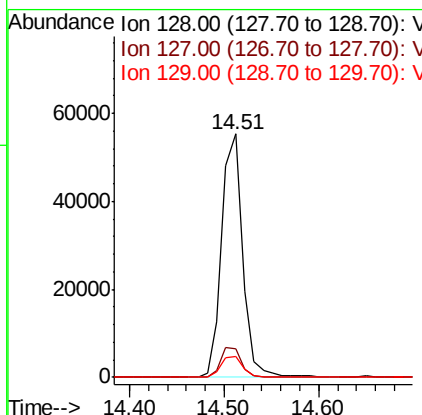
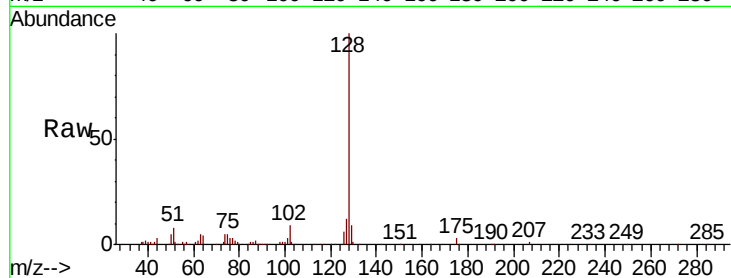
#95
Naphthalene
Concen: 10.578 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. 0.00 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.7	10.2	15.2
129	8.6	9.2	13.8

Manual Integrations
APPROVED

apatel
10/10/2018 12:34:23 PM



#96
1,2,3-Trichlorobenzene
Concen: 10.804 ug/l
RT: 14.65 min Scan# 1422
Delta R.T. -0.01 min
Lab File: VF060502.D
Acq: 9 Oct 2018 21:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	51.3	153.9
145	33.7	16.4	49.2

