

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF022519\
 Data File : VF061732.D
 Acq On : 25 Feb 2019 16:07
 Operator : VA/AP
 Sample : K1560-01LOD
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Quant Time: Feb 26 04:46:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	298953	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	471341	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	413178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	239591	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	124702	56.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.76%	
35) Dibromofluoromethane	4.12	113	179987	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
50) Toluene-d8	7.55	98	510059	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.41	95	210039	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.96	85	9476	2.760 ug/l	93
3) Chloromethane	1.10	50	10760	2.987 ug/l	89
4) Vinyl Chloride	1.13	62	8553	2.554 ug/l #	82
5) Bromomethane	1.32	94	8538	3.705 ug/l #	59
6) Chloroethane	1.39	64	3920	2.375 ug/l	89
7) Trichlorofluoromethane	1.47	101	10908	2.701 ug/l	89
8) Diethyl Ether	1.63	74	2519	2.475 ug/l	50
9) 1,1,2-Trichlorotrifluoroet	1.83	101	8329	2.859 ug/l	93
10) Methyl Iodide	1.90	142	12797	2.299 ug/l #	85
11) Tert butyl alcohol	2.59	59	1969	15.519 ug/l #	68
12) 1,1-Dichloroethene	1.78	96	7959	3.107 ug/l #	69
13) Acrolein	2.00	56	3409	21.379 ug/l #	58
14) Allyl chloride	2.10	41	8055	2.562 ug/l	89
15) Acrylonitrile	2.95	53	6463	14.361 ug/l	89
16) Acetone	2.25	43	6909	14.689 ug/l #	72
17) Carbon Disulfide	1.84	76	21787	2.706 ug/l	98
18) Methyl Acetate	2.37	43	10076	9.509 ug/l #	72
19) Methyl tert-butyl Ether	2.43	73	12326	2.815 ug/l #	90
20) Methylene Chloride	2.18	84	4970	Below Cal #	82
21) trans-1,2-Dichloroethene	2.31	96	8052	2.891 ug/l	91
22) Diisopropyl ether	2.81	45	20086	2.662 ug/l #	86
23) Vinyl Acetate	3.19	43	40794	11.069 ug/l	99
24) 1,1-Dichloroethane	2.88	63	12454	2.727 ug/l	99
25) 2-Butanone	4.34	43	14296	13.914 ug/l #	82
26) 2,2-Dichloropropane	3.60	77	5745	2.970 ug/l	97
27) cis-1,2-Dichloroethene	3.48	96	9844	2.693 ug/l	89
28) Bromochloromethane	3.71	49	6236	2.846 ug/l	87
29) Tetrahydrofuran	4.08	42	6667	14.277 ug/l #	86
30) Chloroform	3.86	83	14620	2.815 ug/l	97
31) Cyclohexane	3.71	56	14622	2.958 ug/l #	90
32) 1,1,1-Trichloroethane	4.10	97	9597	2.821 ug/l #	83
36) 1,1-Dichloropropene	4.29	75	12849	2.752 ug/l	88
37) Ethyl Acetate	4.12	43	4588	2.116 ug/l	93
38) Carbon Tetrachloride	3.99	117	8929	2.769 ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	13466	2.439	ug/l	97
40) Benzene	4.63	78	28907	2.367	ug/l	97
41) Methacrylonitrile	4.75	41	3782	3.410	ug/l #	81
42) 1,2-Dichloroethane	4.95	62	7489	2.563	ug/l	98
43) Isopropyl Acetate	6.96	43	5628	2.192	ug/l #	87
44) Trichloroethene	5.51	130	10087	2.554	ug/l	64
45) 1,2-Dichloropropane	6.23	63	6723	2.277	ug/l #	84
46) Dibromomethane	6.09	93	4163	2.290	ug/l	91
47) Bromodichloromethane	6.39	83	9611	2.415	ug/l	97
48) Methyl methacrylate	6.72	41	3914	2.534	ug/l #	87
49) 1,4-Dioxane	6.71	88	419	28.852	ug/l #	42
51) 4-Methyl-2-Pentanone	8.26	43	21561	11.755	ug/l	98
52) Toluene	7.62	92	21279	2.873	ug/l	100
53) t-1,3-Dichloropropene	8.28	75	7785	2.350	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	10199	2.311	ug/l	91
55) 1,1,2-Trichloroethane	8.49	97	4968	2.283	ug/l	87
56) Ethyl methacrylate	8.62	69	6213	2.564	ug/l	90
57) 1,3-Dichloropropane	8.85	76	8602	2.368	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.29	63	4245	10.154	ug/l	91
59) 2-Hexanone	9.49	43	15346	11.935	ug/l	92
60) Dibromochloromethane	8.70	129	6784	2.240	ug/l	99
61) 1,2-Dibromoethane	8.99	107	5877	2.490	ug/l	84
64) Tetrachloroethene	8.15	164	9454	2.799	ug/l	94
65) Chlorobenzene	9.80	112	22722	2.710	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	8709	2.651	ug/l	93
67) Ethyl Benzene	9.90	91	41860	3.002	ug/l	96
68) m/p-Xylenes	10.13	106	32218	6.038	ug/l	100
69) o-Xylene	10.72	106	15237	2.676	ug/l	94
70) Styrene	10.78	104	20052	2.489	ug/l	94
71) Bromoform	10.77	173	3939	2.208	ug/l	92
73) Isopropylbenzene	11.12	105	41282	2.420	ug/l	98
74) N-amyl acetate	11.38	43	9562	2.335	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.69	83	7574	2.478	ug/l	95
76) 1,2,3-Trichloropropane	11.79	75	4516	2.173	ug/l	100
77) Bromobenzene	11.49	156	10115	2.400	ug/l	91
78) n-propylbenzene	11.59	91	53795	2.748	ug/l	95
79) 2-Chlorotoluene	11.72	91	29654	2.705	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	37782	2.771	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	2690	2.700	ug/l #	83
82) 4-Chlorotoluene	11.90	91	29798	2.619	ug/l	87
83) tert-Butylbenzene	12.13	119	38232	2.532	ug/l	96
84) 1,2,4-Trimethylbenzene	12.20	105	43220	3.191	ug/l	98
85) sec-Butylbenzene	12.30	105	49475	2.534	ug/l	95
86) p-Isopropyltoluene	12.46	119	45125	2.753	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	23290	2.835	ug/l	92
88) 1,4-Dichlorobenzene	12.56	146	20944	2.651	ug/l	96
89) n-Butylbenzene	12.85	91	41103	2.656	ug/l	97
90) Hexachloroethane	12.91	117	9363	2.456	ug/l	86
91) 1,2-Dichlorobenzene	12.94	146	20083	2.570	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	883	1.822	ug/l	77

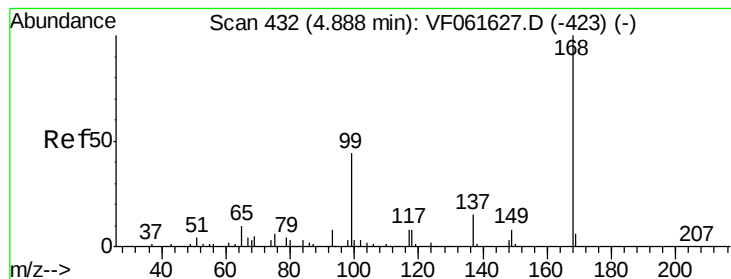
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	13911	2.484	ug/l	96
94) Hexachlorobutadiene	14.19	225	8493	2.455	ug/l	91
95) Naphthalene	14.45	128	20918	2.135	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.60	180	11923	2.319	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

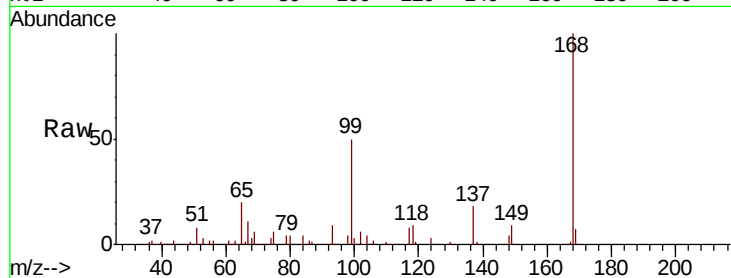
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:168 Resp: 298953

Ion Ratio Lower Upper

168 100

99 49.8 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

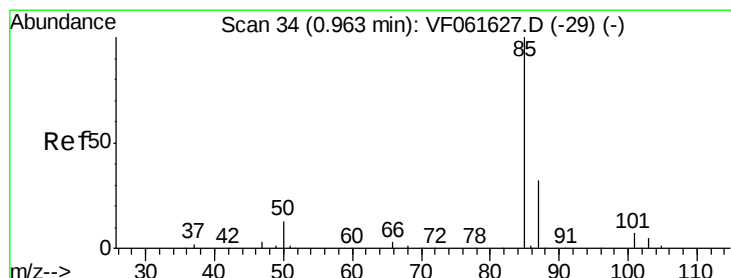
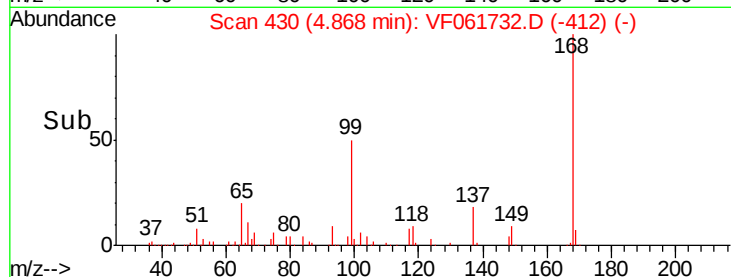
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 2.760 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061732.D

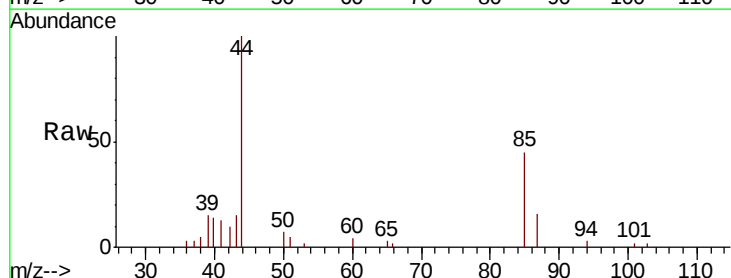
Acq: 25 Feb 2019 16:07

Tgt Ion: 85 Resp: 9476

Ion Ratio Lower Upper

85 100

87 35.9 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

3000

2500

2000

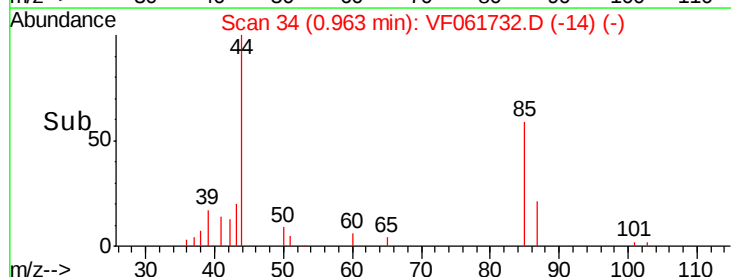
1500

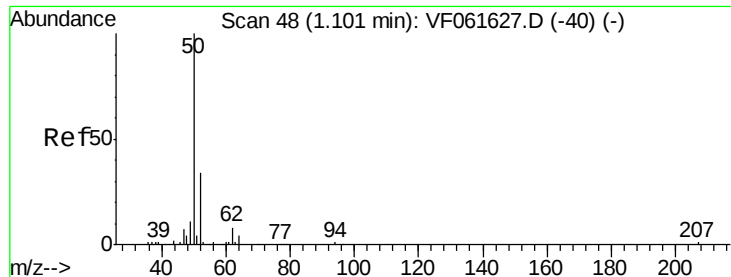
1000

500

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 2.987 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

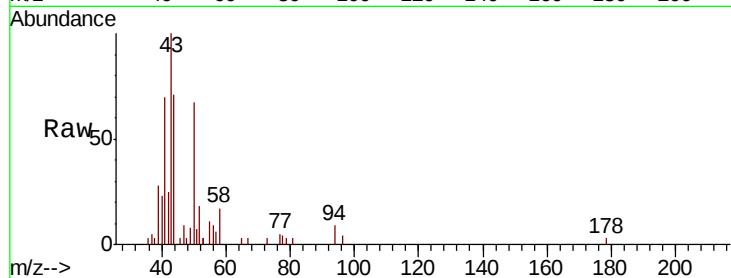
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 50 Resp: 10760

Ion Ratio Lower Upper

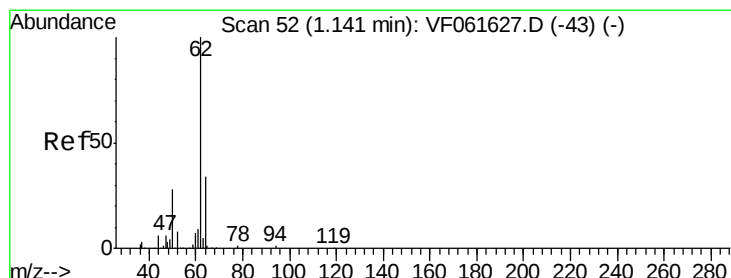
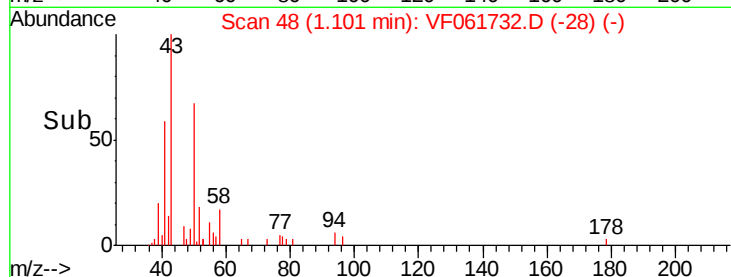
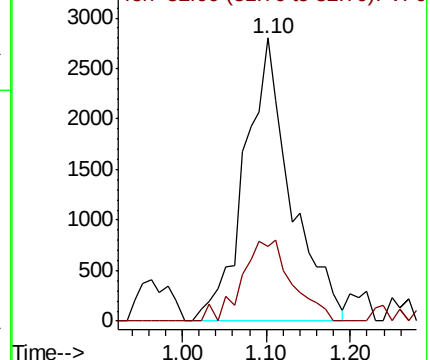
50 100

52 26.6 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 2.554 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061732.D

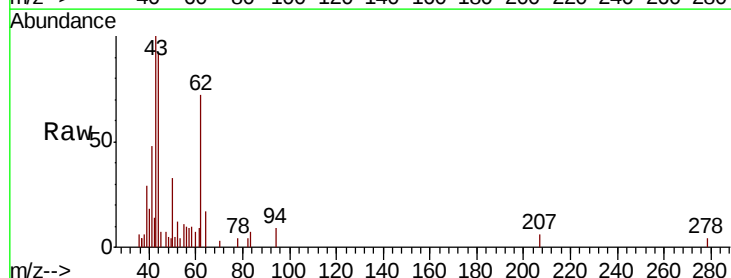
Acq: 25 Feb 2019 16:07

Tgt Ion: 62 Resp: 8553

Ion Ratio Lower Upper

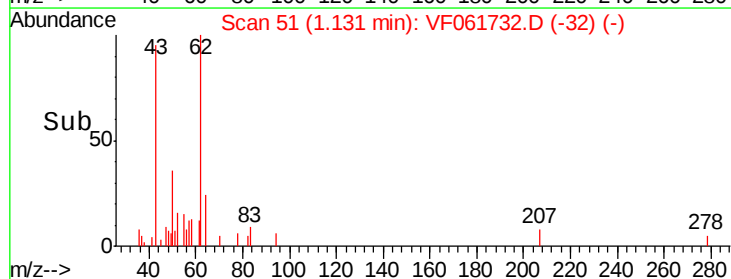
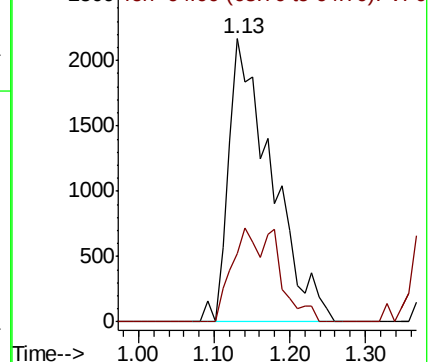
62 100

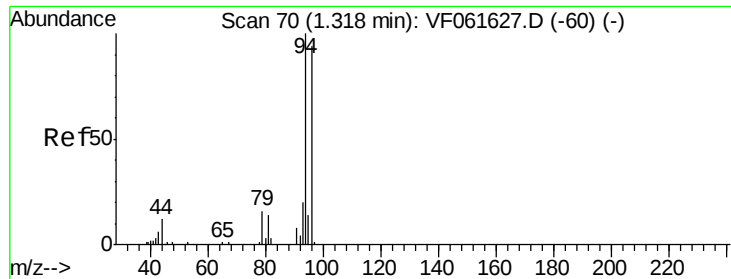
64 24.1 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 3.705 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

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ClientSampleId :

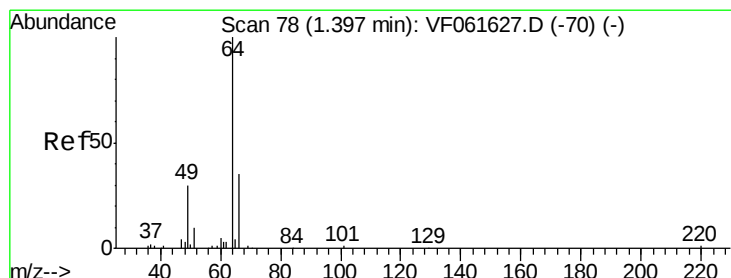
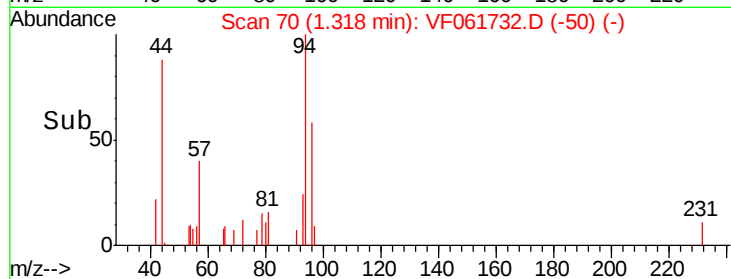
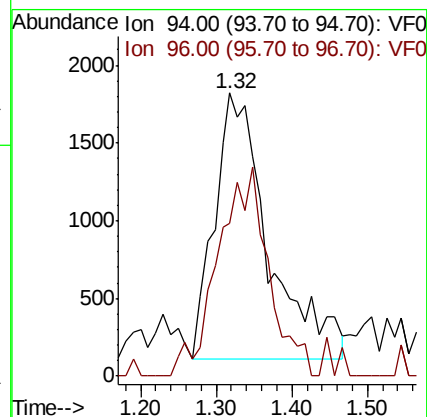
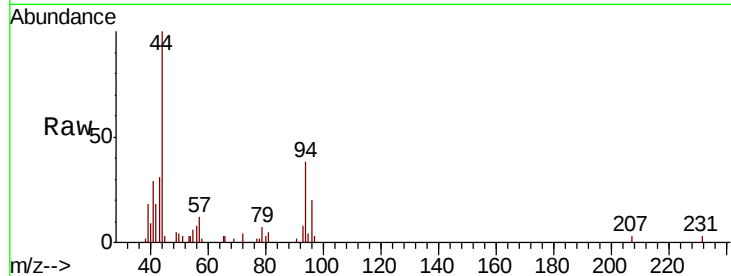
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 94 Resp: 8538

Ion Ratio Lower Upper

94 100

96 54.2 74.6 112.0#



#6

Chloroethane

Concen: 2.375 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061732.D

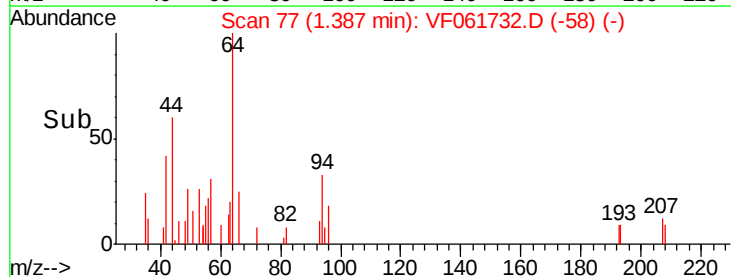
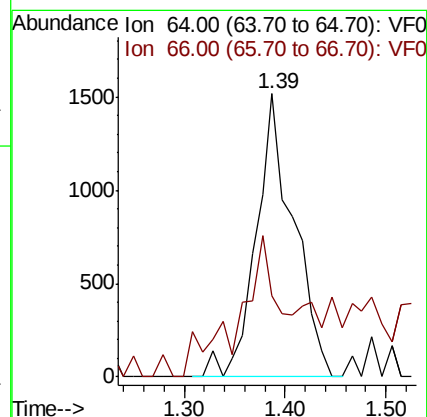
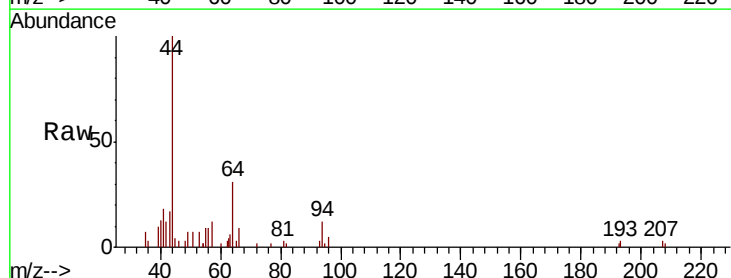
Acq: 25 Feb 2019 16:07

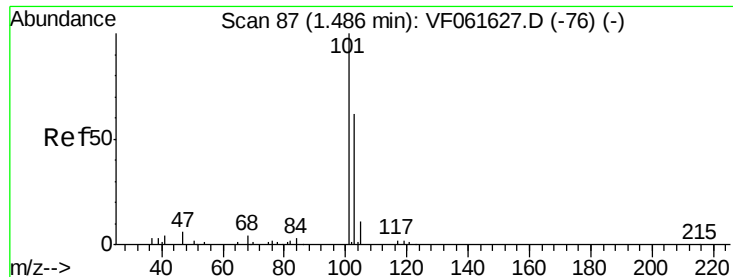
Tgt Ion: 64 Resp: 3920

Ion Ratio Lower Upper

64 100

66 28.5 27.9 41.9





#7

Trichlorofluoromethane

Concen: 2.701 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

Lab File: VF061732.D

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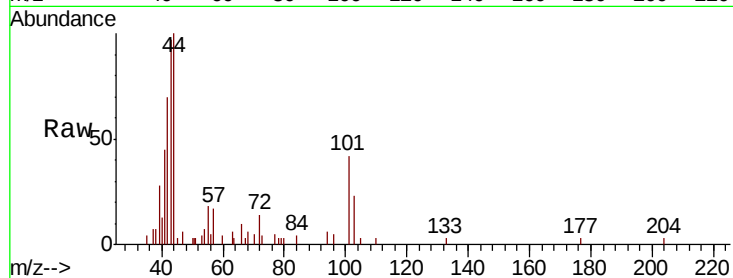
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:101 Resp: 10908

Ion Ratio Lower Upper

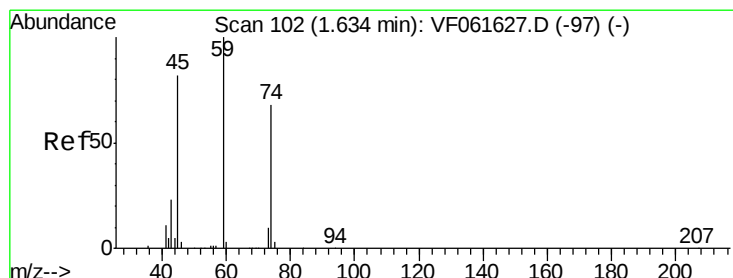
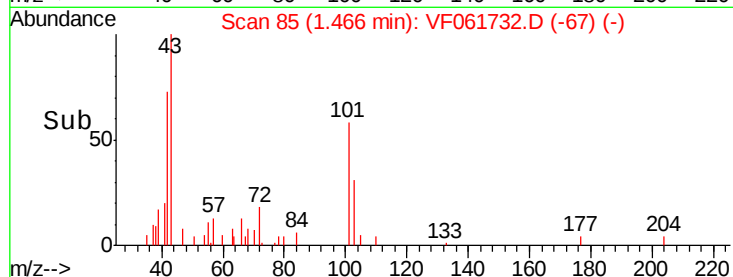
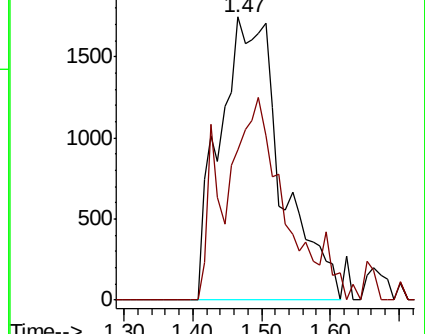
101 100

103 53.2 49.3 73.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.475 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061732.D

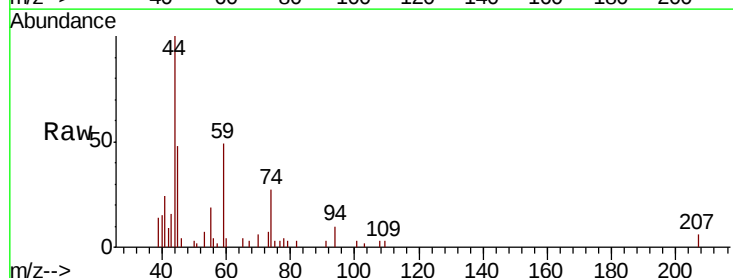
Acq: 25 Feb 2019 16:07

Tgt Ion: 74 Resp: 2519

Ion Ratio Lower Upper

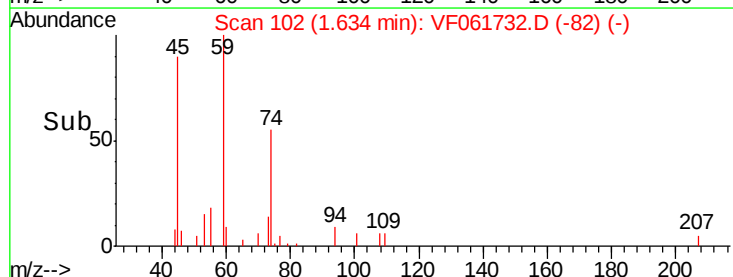
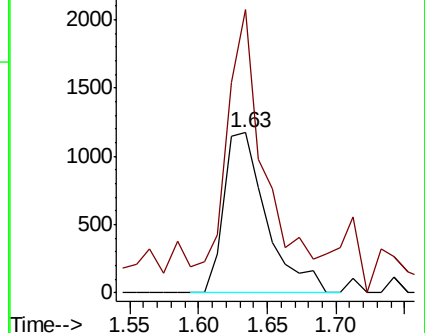
74 100

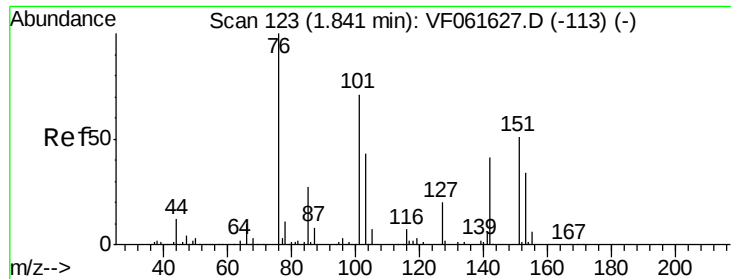
45 176.9 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.859 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061732.D

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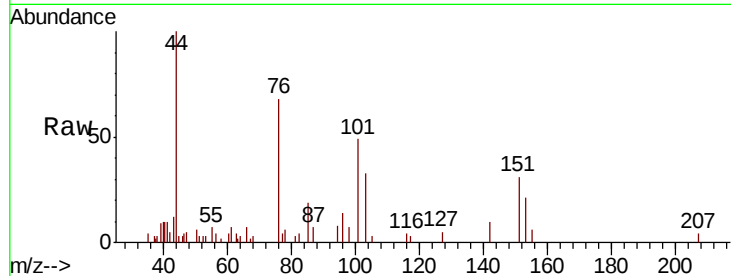
Tgt Ion:101 Resp: 8329

Ion Ratio Lower Upper

101 100

85 39.7 29.8 44.6

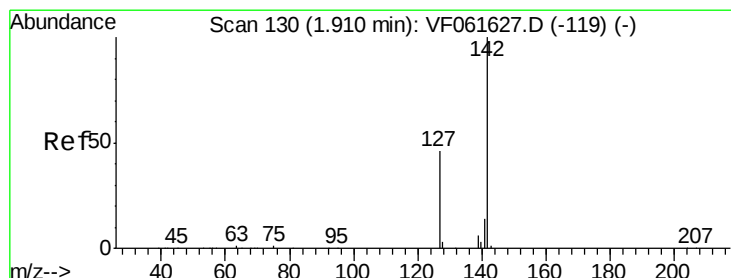
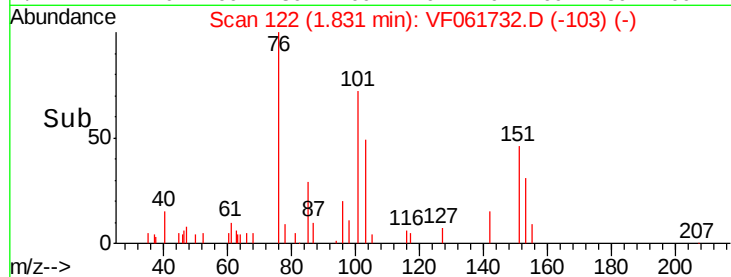
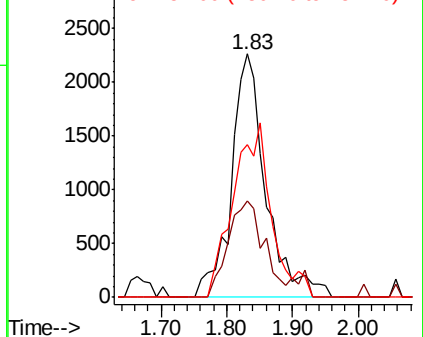
151 63.0 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 2.299 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

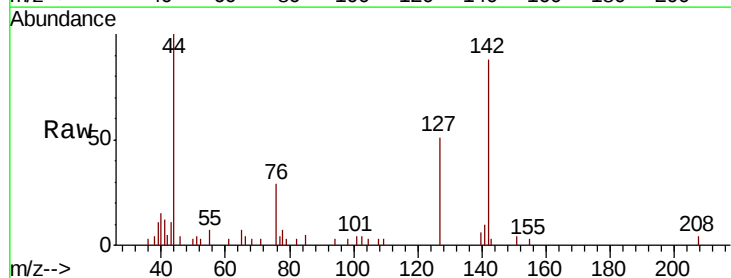
Tgt Ion:142 Resp: 12797

Ion Ratio Lower Upper

142 100

127 58.0 36.6 55.0#

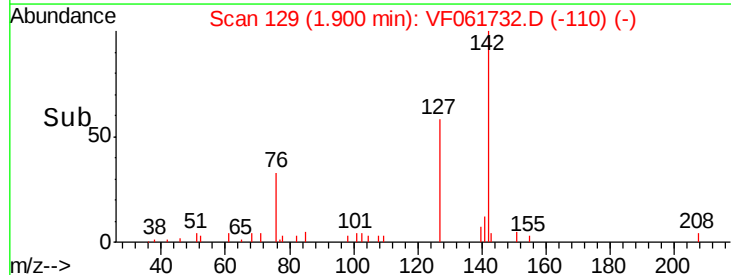
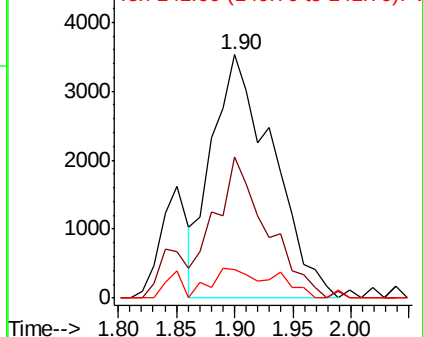
141 11.6 11.0 16.6

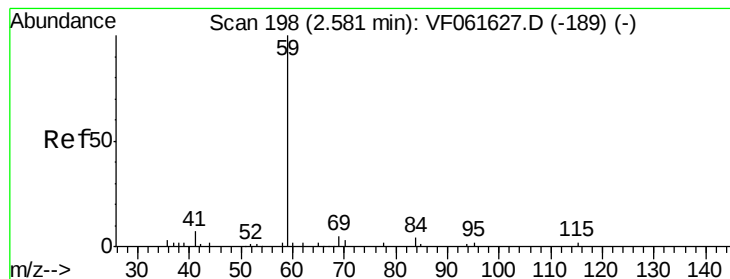


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



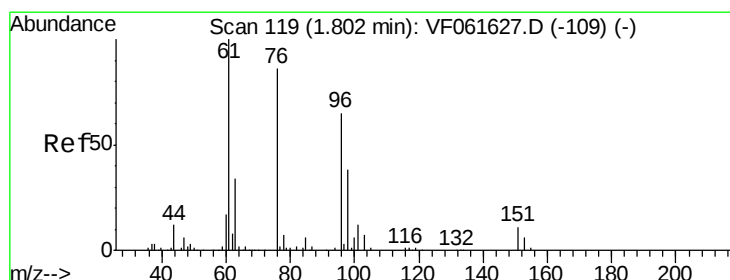
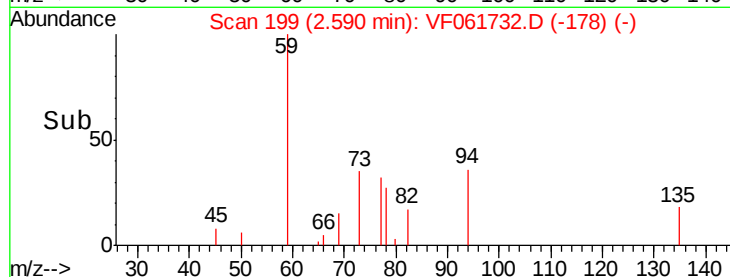
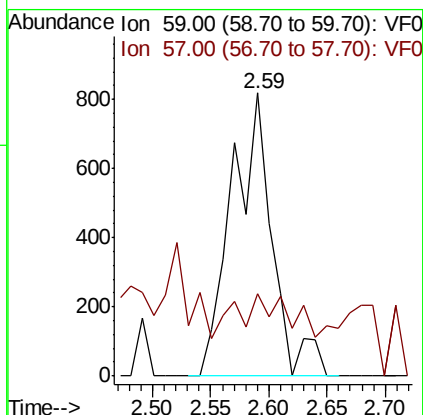
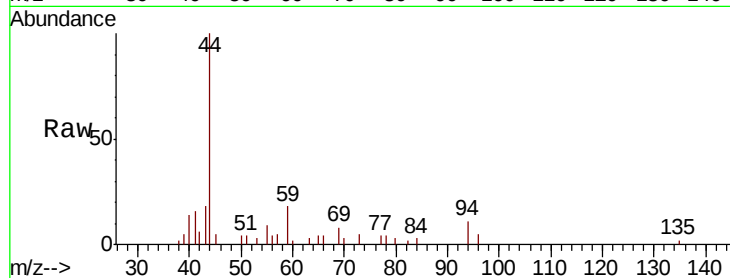


#11

Tert butyl alcohol
 Concen: 15.519 ug/l
 RT: 2.59 min Scan# 199
 Delta R.T. 0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

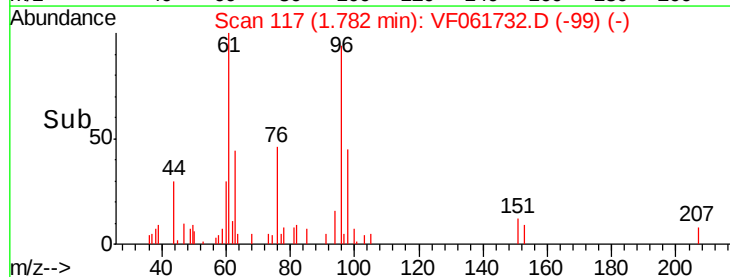
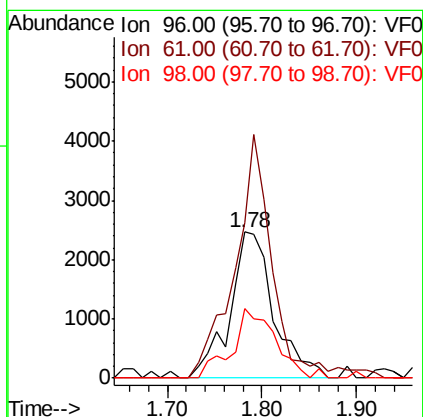
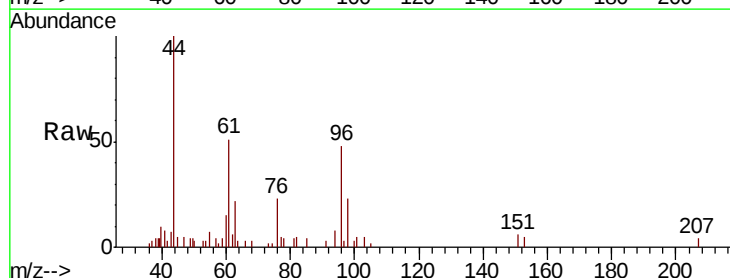
Tgt Ion: 59 Resp: 1969
 Ion Ratio Lower Upper
 59 100
 57 29.0 12.5 18.7#

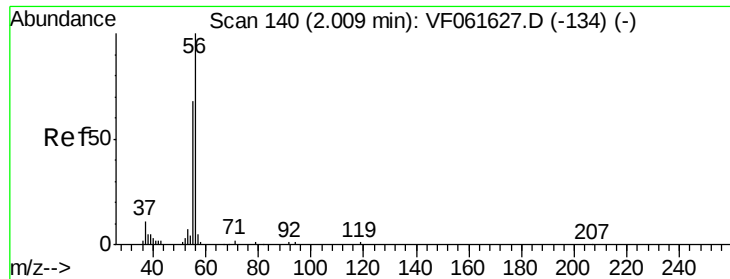


#12

1,1-Dichloroethene
 Concen: 3.107 ug/l
 RT: 1.78 min Scan# 117
 Delta R.T. -0.02 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 96 Resp: 7959
 Ion Ratio Lower Upper
 96 100
 61 106.3 122.6 184.0#
 98 47.5 47.2 70.8





#13

Acrolein

Concen: 21.379 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

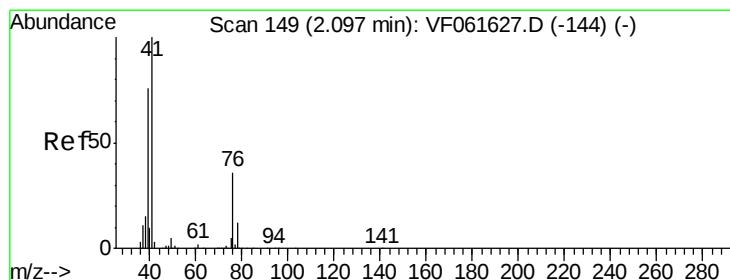
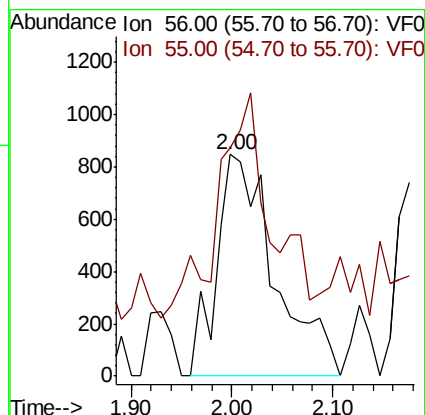
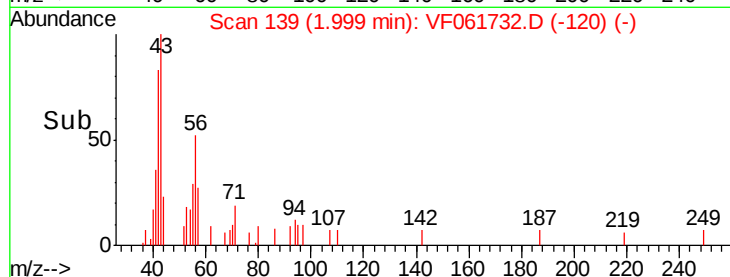
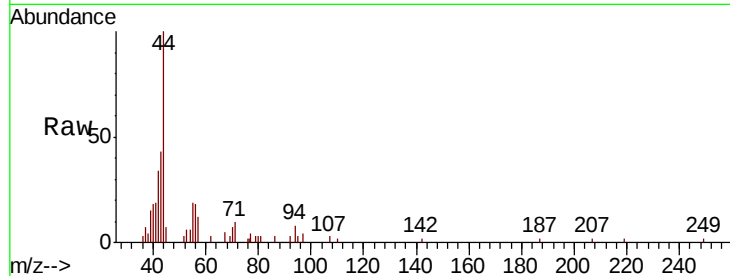
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 56 Resp: 3409

Ion Ratio Lower Upper

56 100

55 103.3 55.0 82.6#



#14

Allyl chloride

Concen: 2.562 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

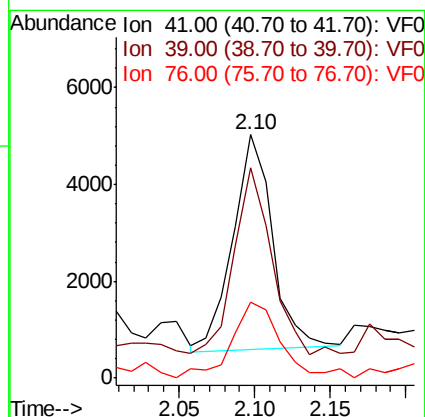
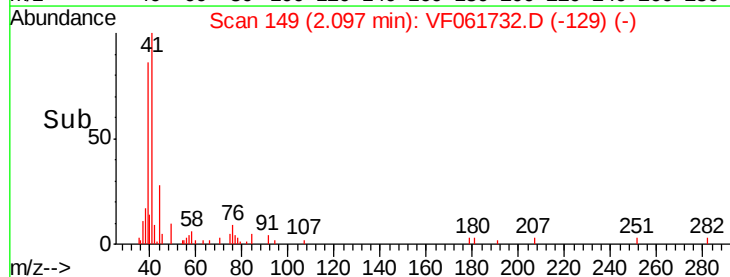
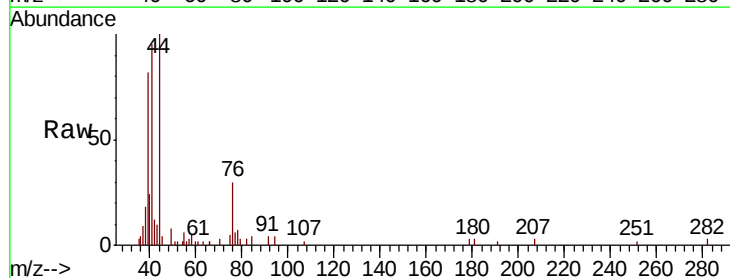
Tgt Ion: 41 Resp: 8055

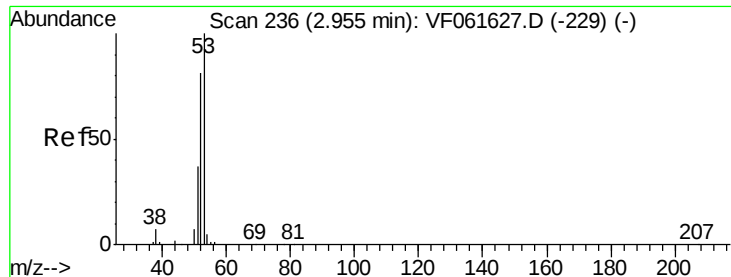
Ion Ratio Lower Upper

41 100

39 86.2 61.6 92.4

76 31.4 30.3 45.5





#15

Acrylonitrile

Concen: 14.361 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

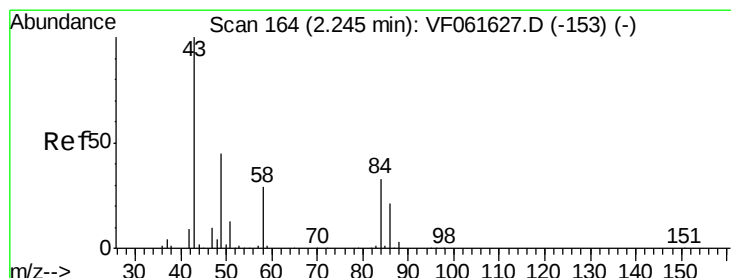
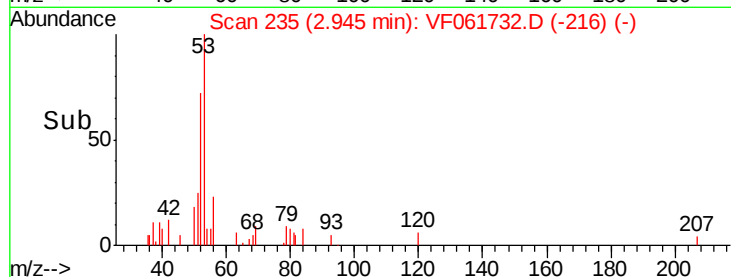
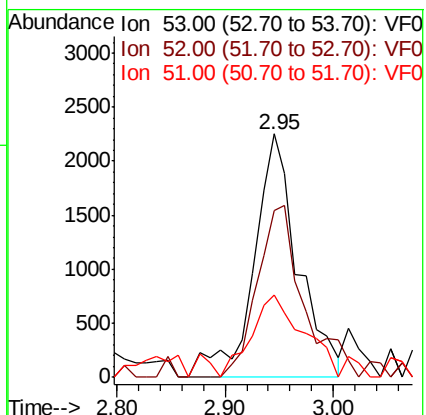
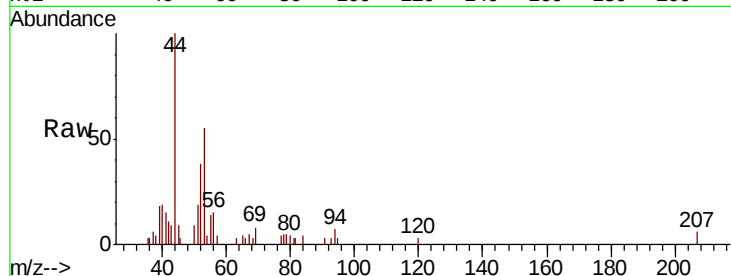
Tgt Ion: 53 Resp: 6463

Ion Ratio Lower Upper

53 100

52 68.7 64.6 97.0

51 33.8 29.8 44.8



#16

Acetone

Concen: 14.689 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF061732.D

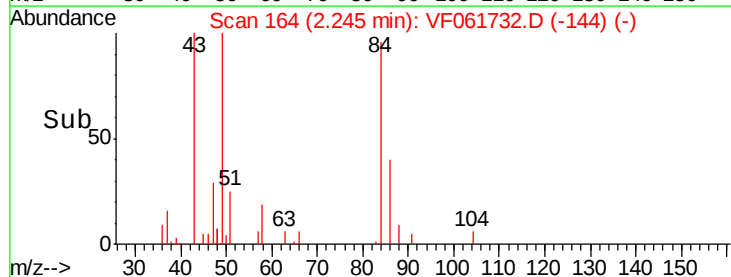
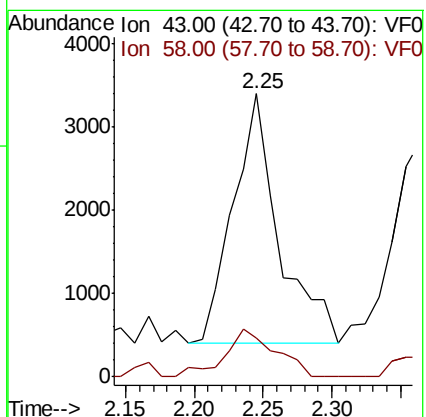
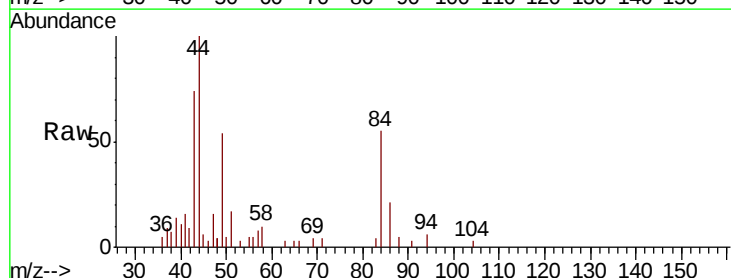
Acq: 25 Feb 2019 16:07

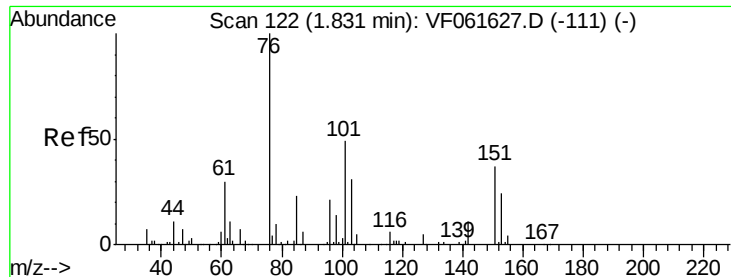
Tgt Ion: 43 Resp: 6909

Ion Ratio Lower Upper

43 100

58 13.8 22.9 34.3#

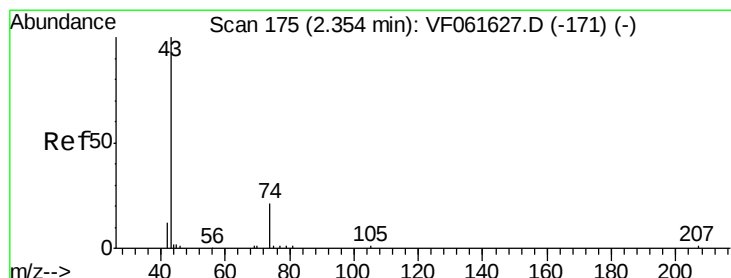
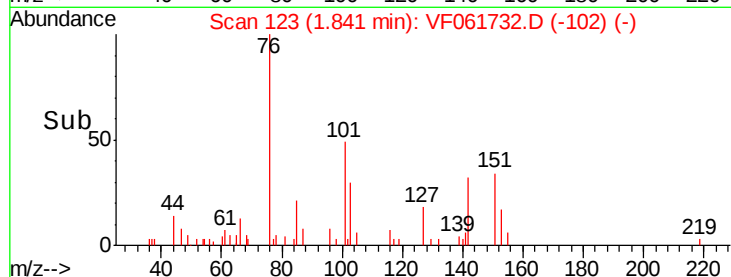
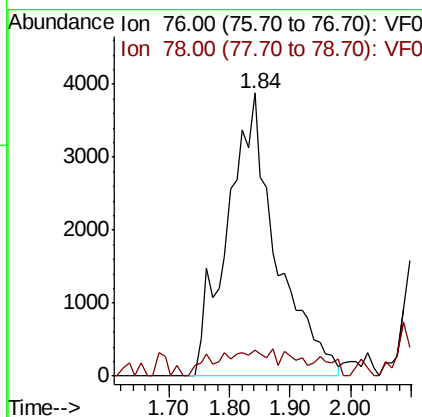
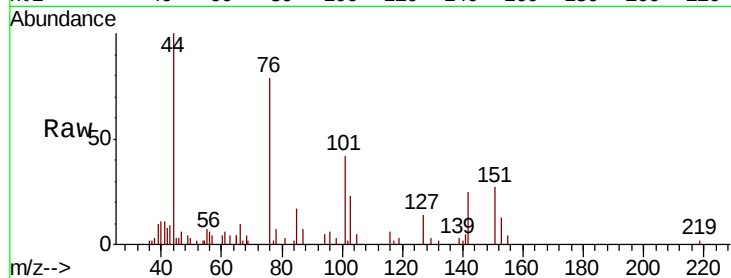




#17
Carbon Disulfide
Concen: 2.706 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

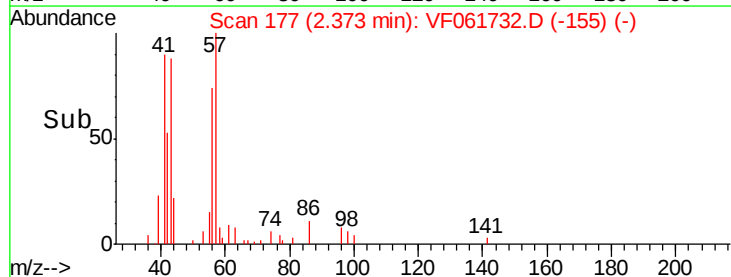
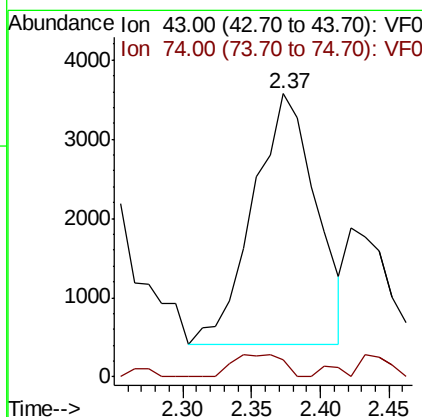
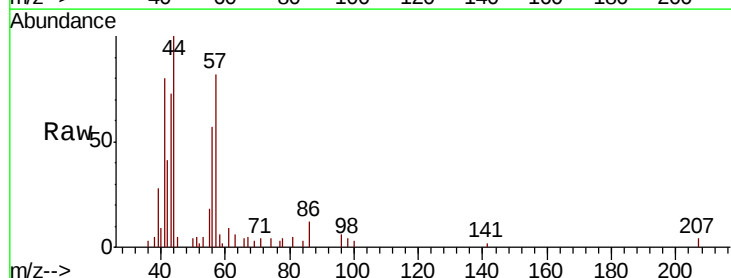
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

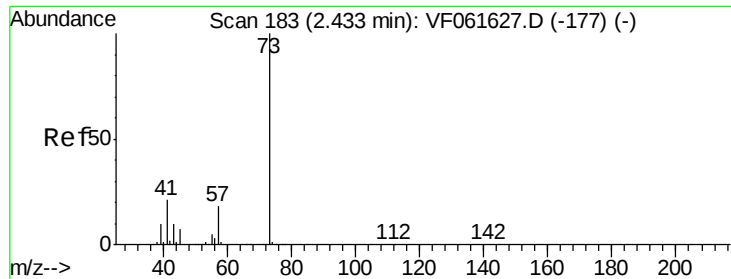
Tgt Ion: 76 Resp: 21787
Ion Ratio Lower Upper
76 100
78 9.3 7.9 11.9



#18
Methyl Acetate
Concen: 9.509 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 43 Resp: 10076
Ion Ratio Lower Upper
43 100
74 5.9 14.6 21.8#

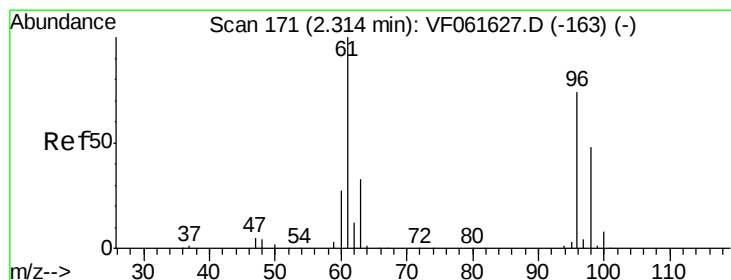
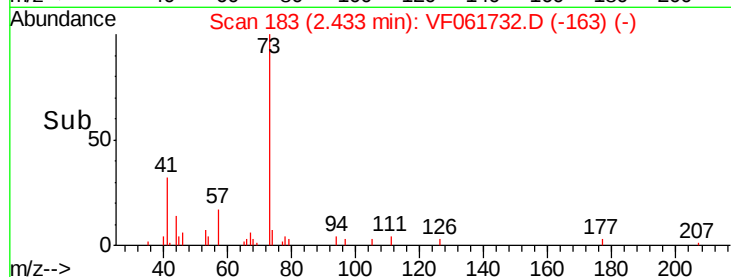
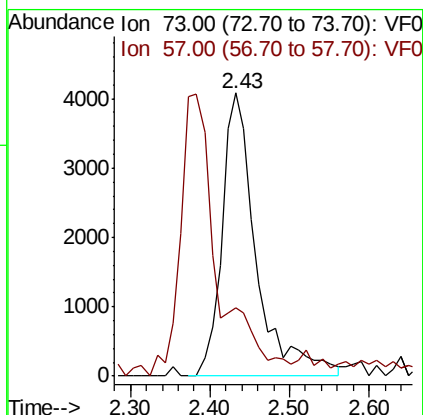
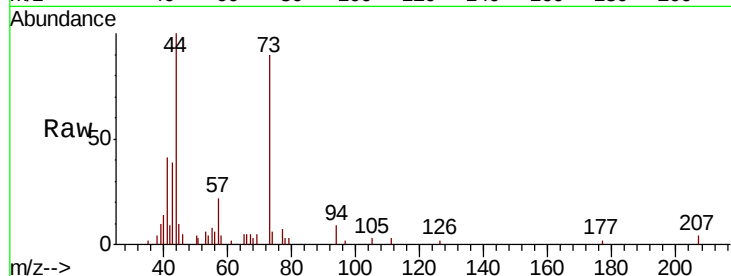




#19
Methyl tert-butyl Ether
Concen: 2.815 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

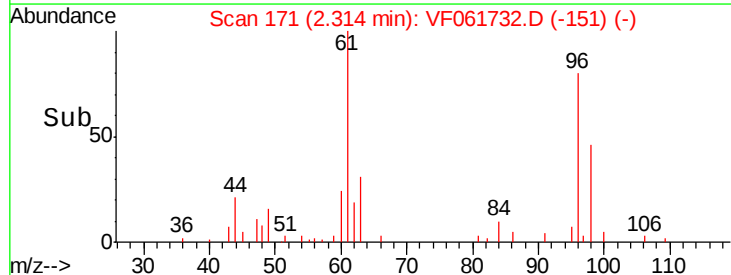
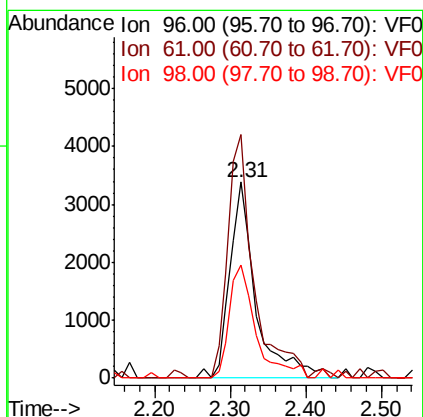
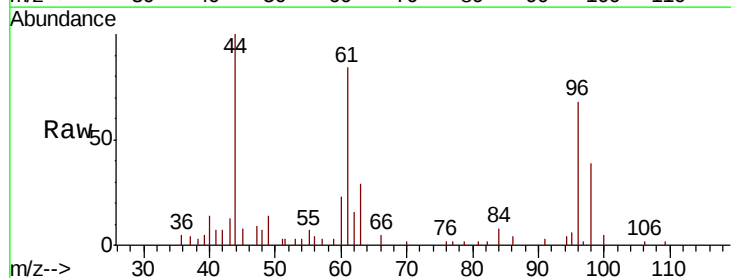
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

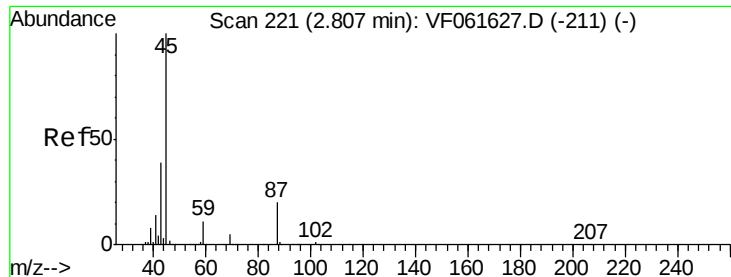
Tgt Ion: 73 Resp: 12326
Ion Ratio Lower Upper
73 100
57 24.3 15.8 23.8#



#21
trans-1,2-Dichloroethene
Concen: 2.891 ug/l
RT: 2.31 min Scan# 171
Delta R.T. -0.00 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 96 Resp: 8052
Ion Ratio Lower Upper
96 100
61 124.3 108.2 162.4
98 57.6 52.2 78.2





#22

Diisopropyl ether

Concen: 2.662 ug/l

RT: 2.81 min Scan# 221

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

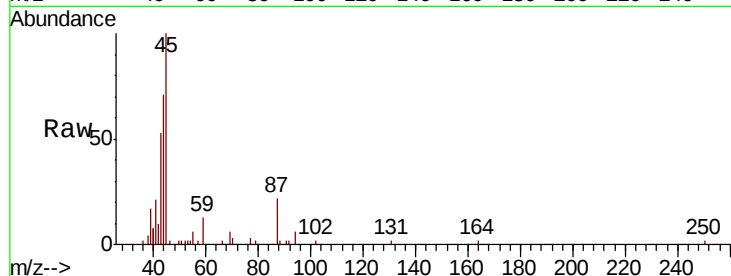
Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:	45	Resp:	20086
Ion	Ratio	Lower	Upper
45	100		
43	52.8	31.4	47.2#
87	22.0	16.3	24.5
59	12.5	8.7	13.1

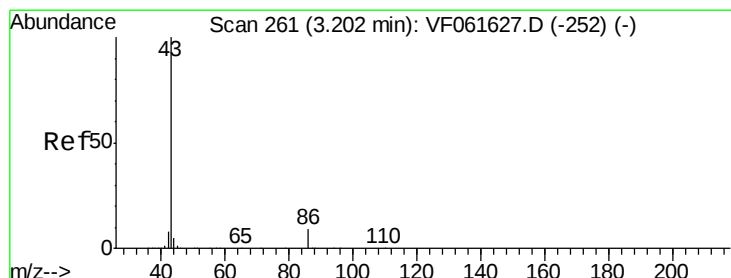
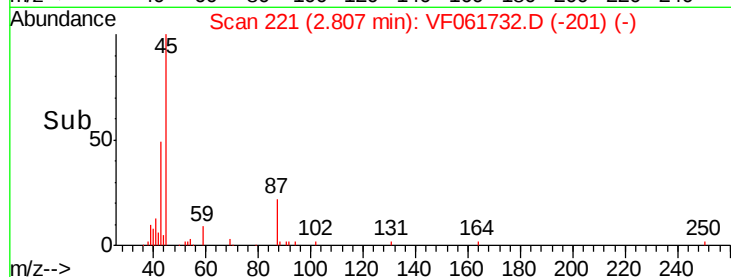
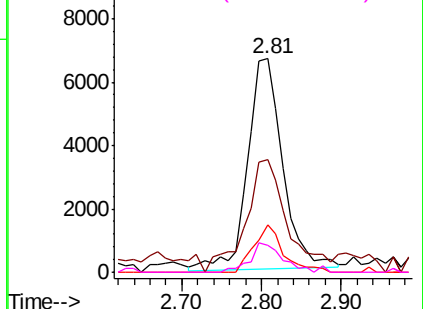


Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0



#23

Vinyl Acetate

Concen: 11.069 ug/l

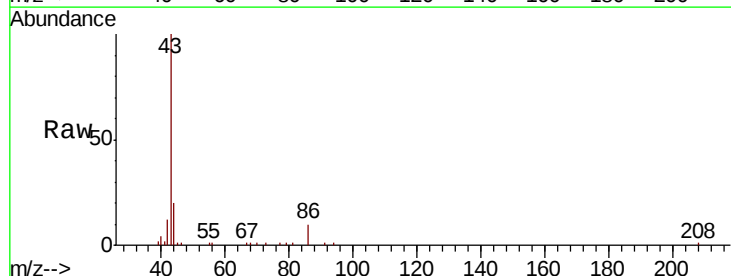
RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061732.D

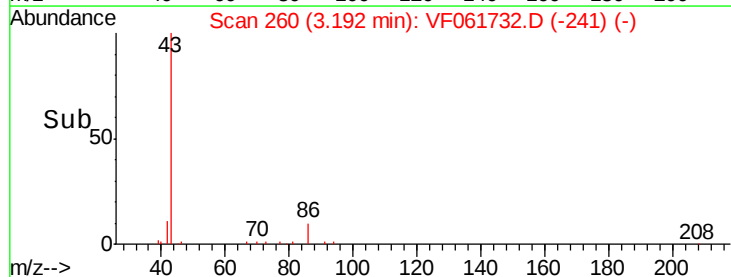
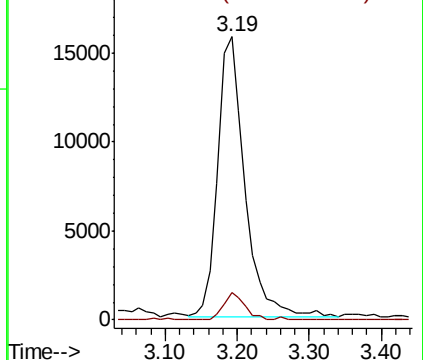
Acq: 25 Feb 2019 16:07

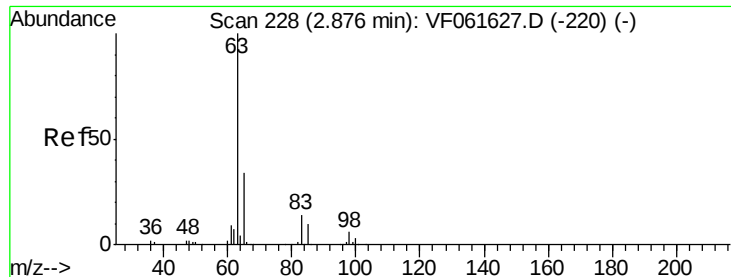
Tgt Ion:	43	Resp:	40794
Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.5	11.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 2.727 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

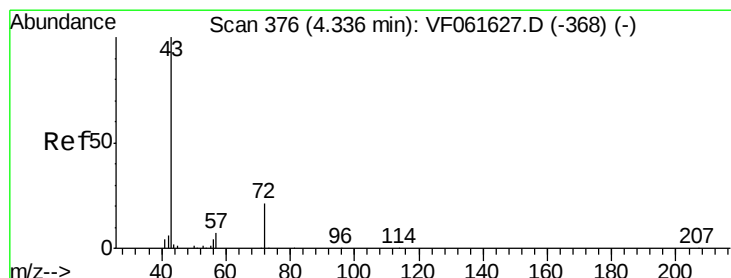
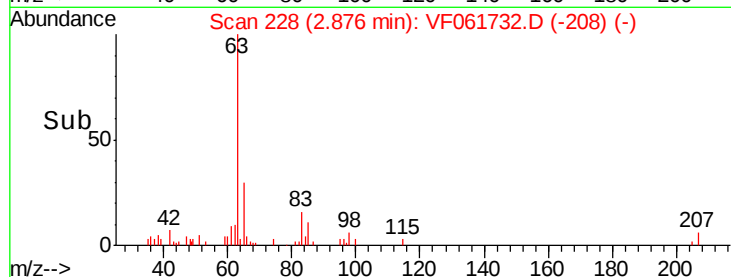
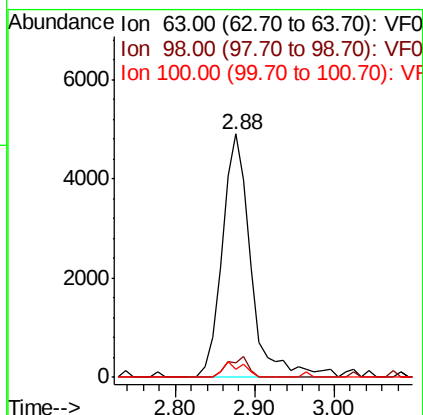
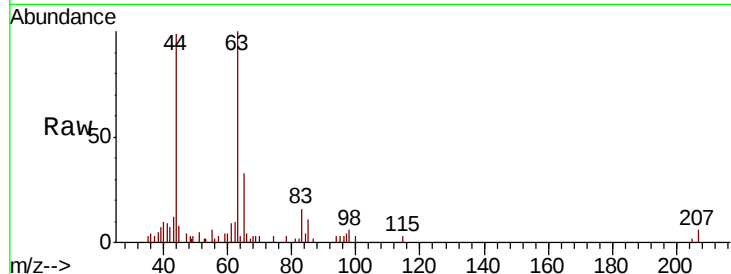
Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:	63	Resp:	12454
Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.8	8.3
100	3.4	1.8	5.4



#25

2-Butanone

Concen: 13.914 ug/l

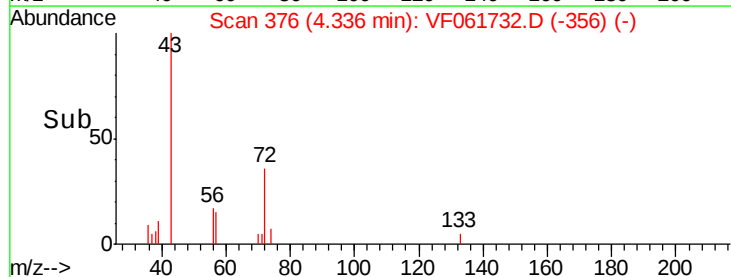
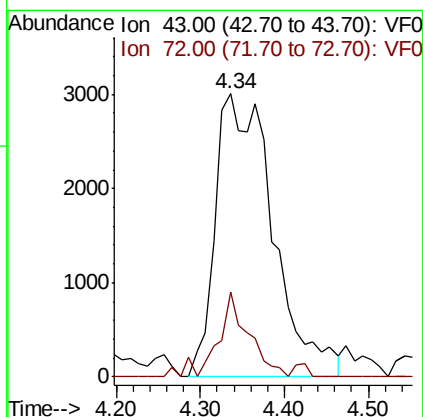
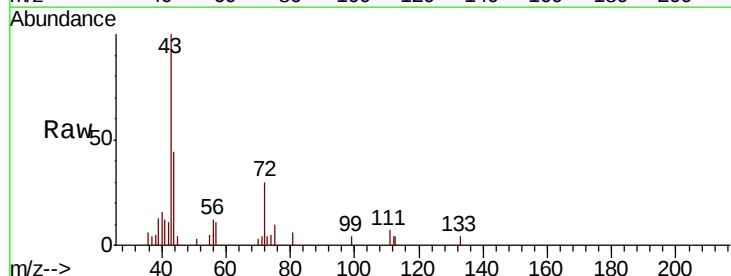
RT: 4.34 min Scan# 376

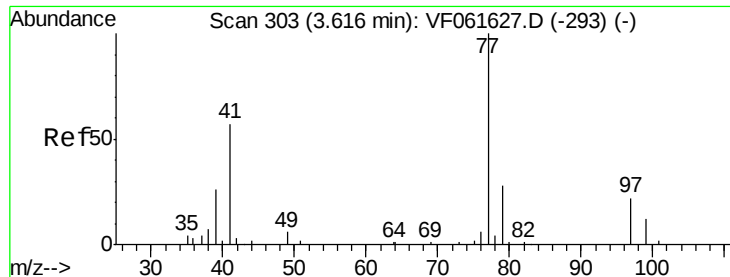
Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Tgt Ion:	43	Resp:	14296
Ion	Ratio	Lower	Upper
43	100		
72	30.0	17.1	25.7#





#26

2,2-Dichloropropane

Concen: 2.970 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

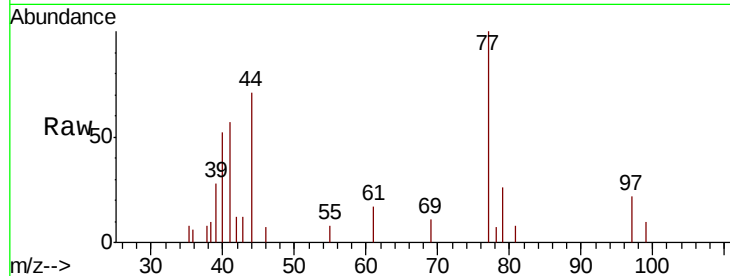
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 77 Resp: 5745

Ion Ratio Lower Upper

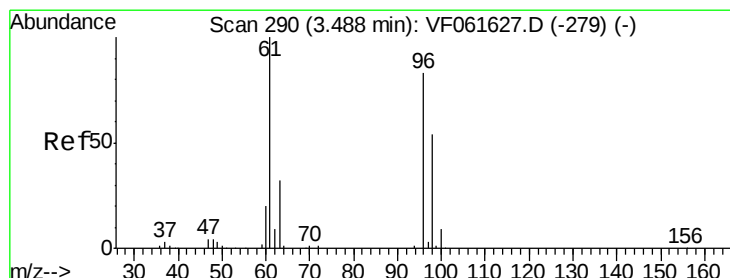
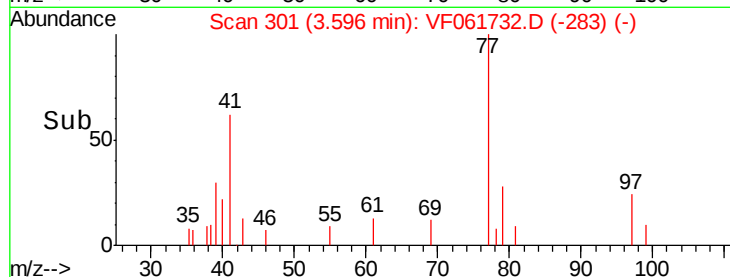
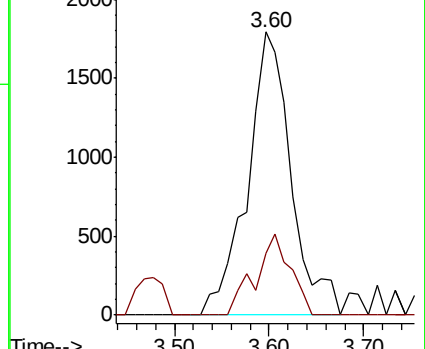
77 100

97 22.0 11.7 35.0



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 2.693 ug/l

RT: 3.48 min Scan# 289

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

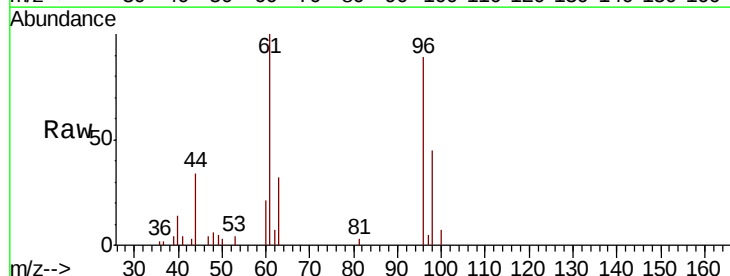
Tgt Ion: 96 Resp: 9844

Ion Ratio Lower Upper

96 100

61 112.2 0.0 241.6

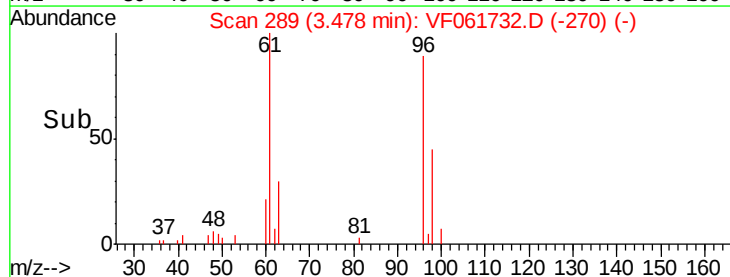
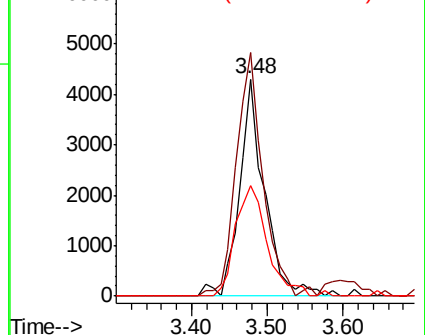
98 50.7 0.0 130.2

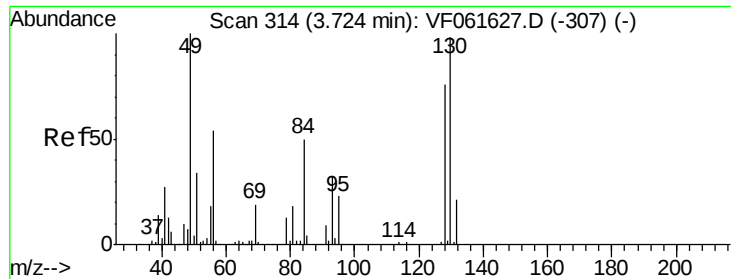


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

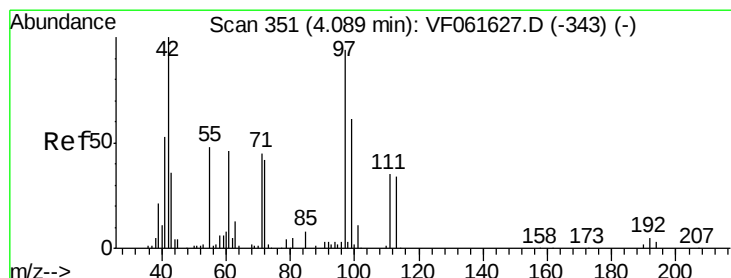
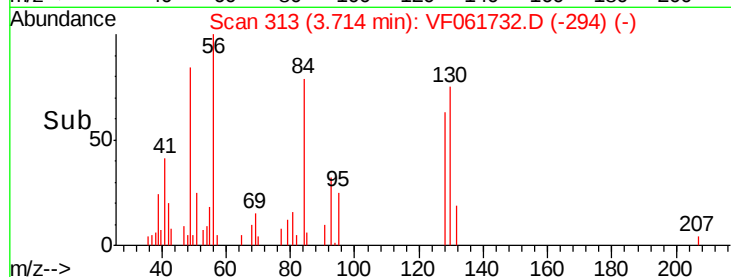
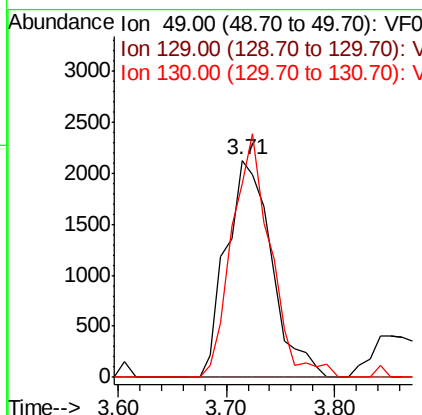
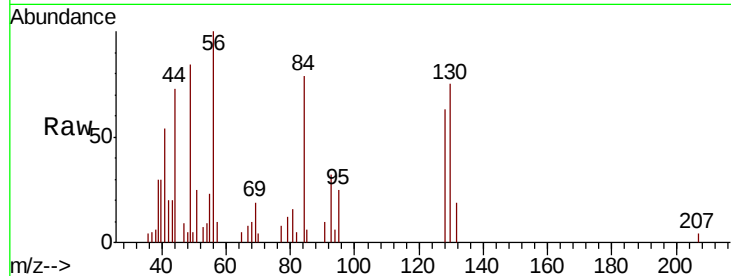




#28
Bromochloromethane
Concen: 2.846 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

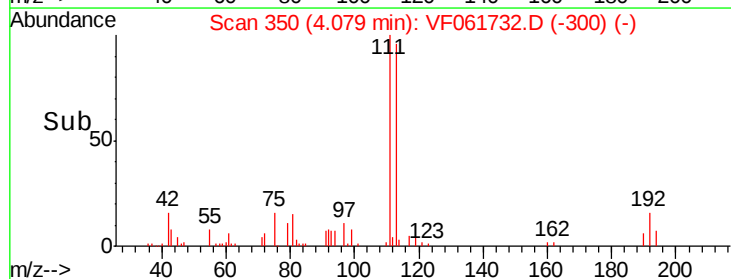
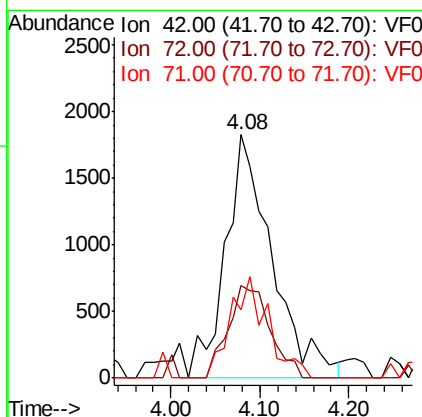
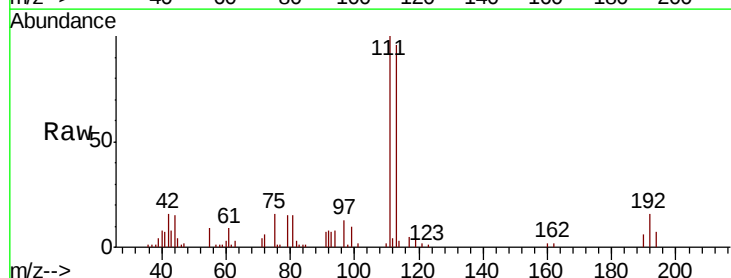
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

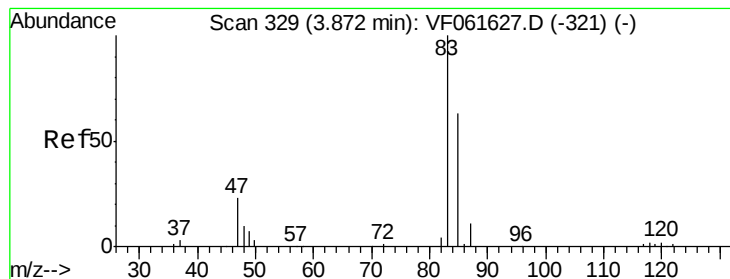
Tgt Ion: 49 Resp: 6236
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.4
130 83.9 77.7 116.5



#29
Tetrahydrofuran
Concen: 14.277 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 42 Resp: 6667
Ion Ratio Lower Upper
42 100
72 34.4 35.2 52.8#
71 33.5 32.9 49.3





#30

Chloroform

Concen: 2.815 ug/l

RT: 3.86 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

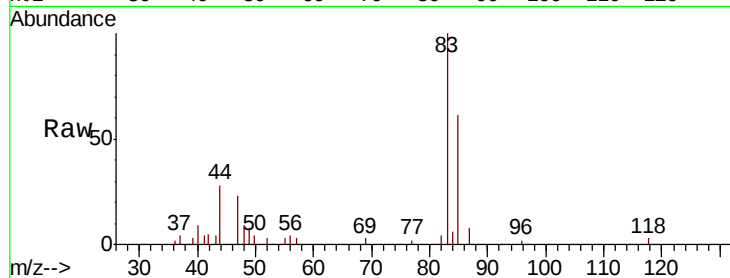
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 83 Resp: 14620

Ion Ratio Lower Upper

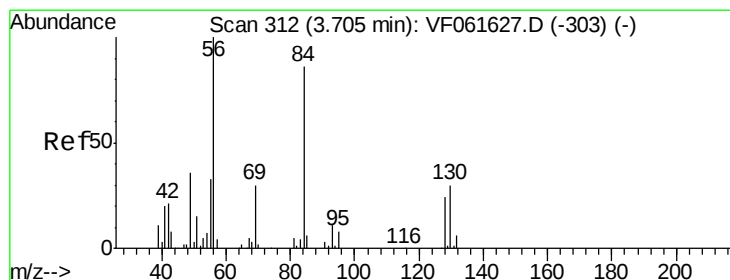
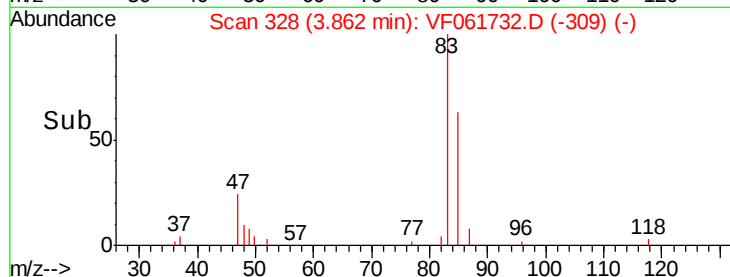
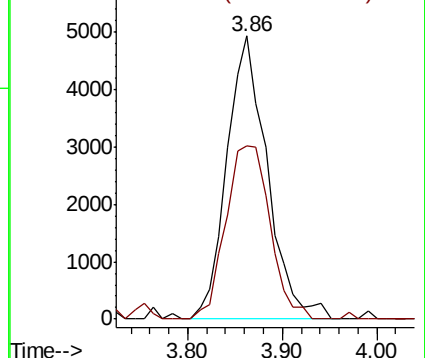
83 100

85 61.3 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#31

Cyclohexane

Concen: 2.958 ug/l

RT: 3.71 min Scan# 313

Delta R.T. 0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

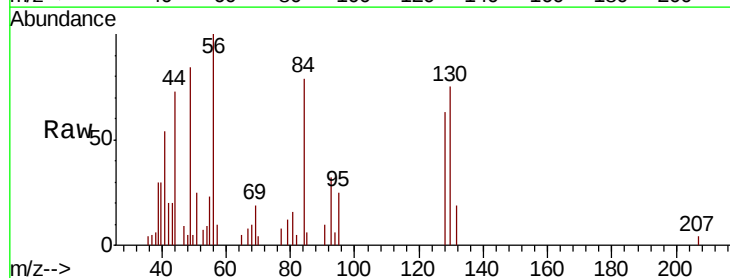
Tgt Ion: 56 Resp: 14622

Ion Ratio Lower Upper

56 100

69 18.9 23.8 35.8#

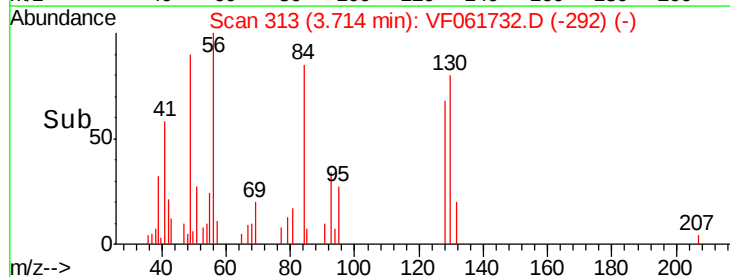
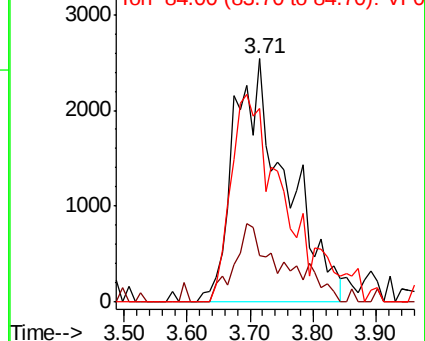
84 79.3 68.6 103.0

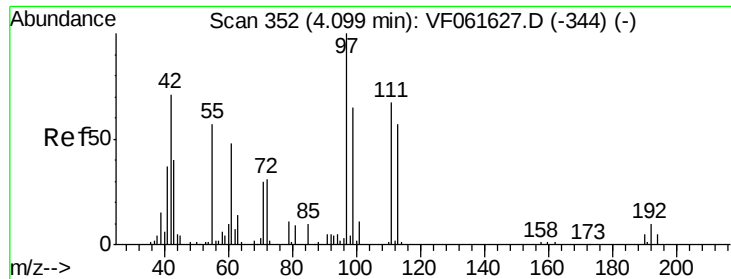


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#32

1,1,1-Trichloroethane

Concen: 2.821 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

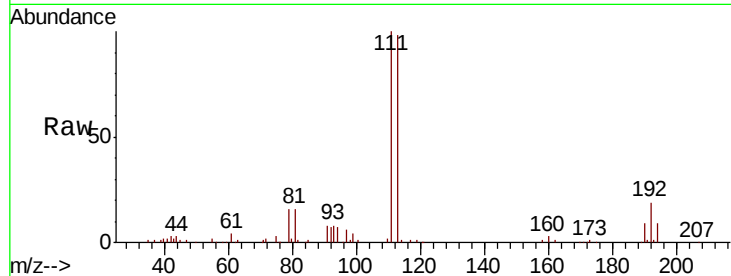
Tgt Ion: 97 Resp: 9597

Ion Ratio Lower Upper

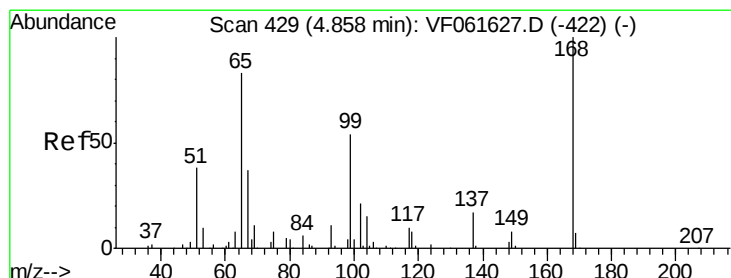
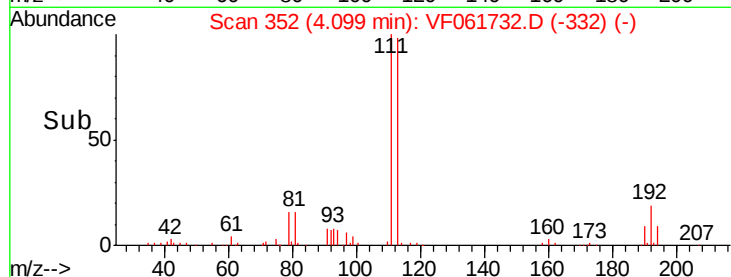
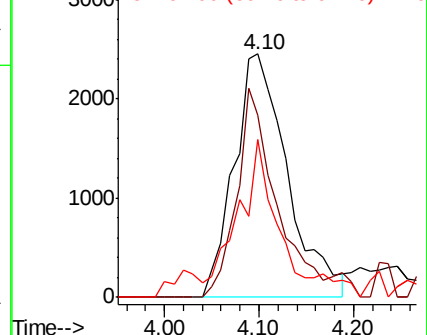
97 100

99 74.7 52.2 78.2

61 64.6 39.2 58.8#



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 56.883 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061732.D

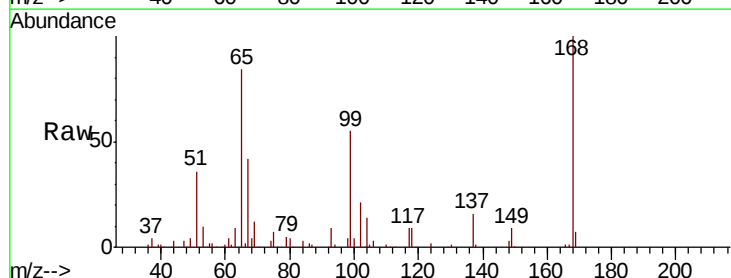
Acq: 25 Feb 2019 16:07

Tgt Ion: 65 Resp: 124702

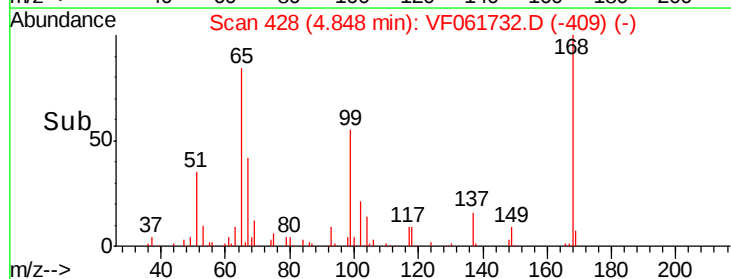
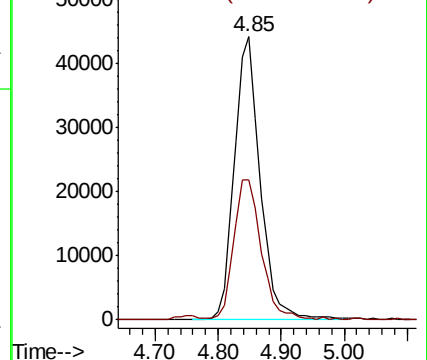
Ion Ratio Lower Upper

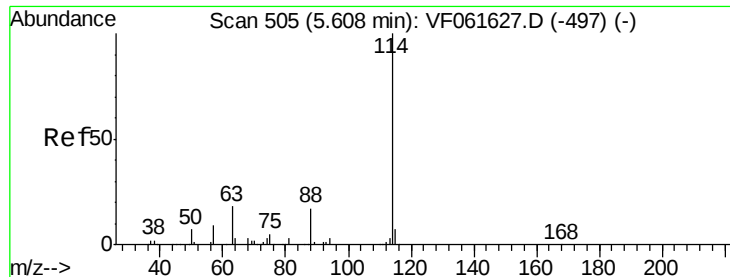
65 100

67 49.6 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

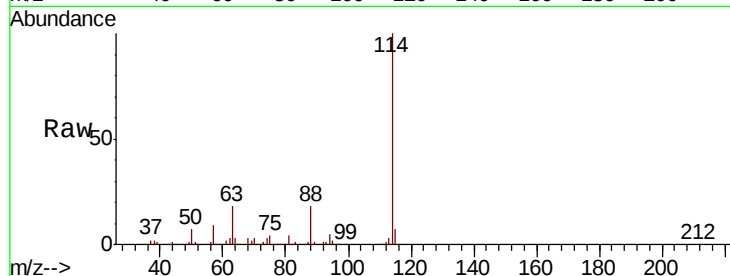
Tgt Ion:114 Resp: 471341

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.6

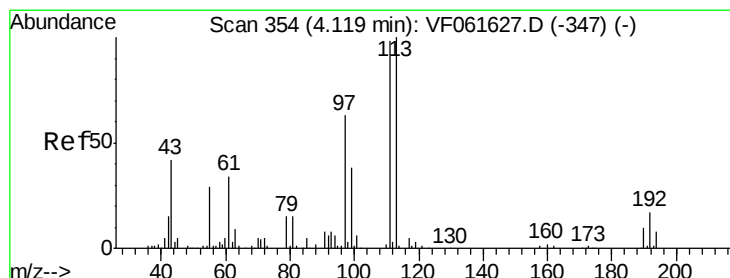
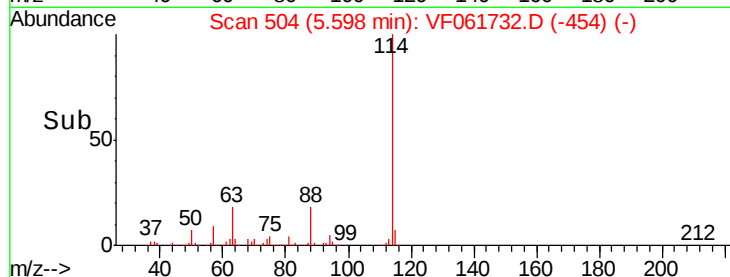
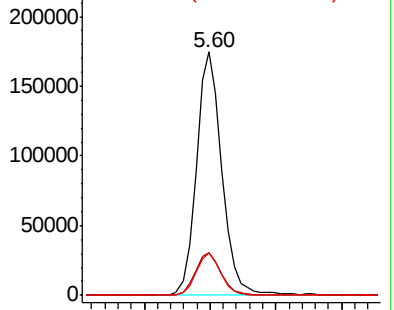
88 17.5 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 51.422 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

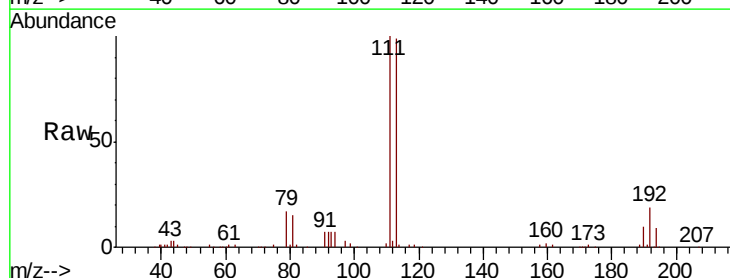
Tgt Ion:113 Resp: 179987

Ion Ratio Lower Upper

113 100

111 101.4 78.8 118.2

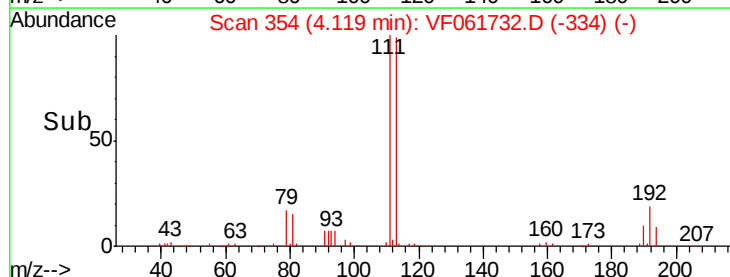
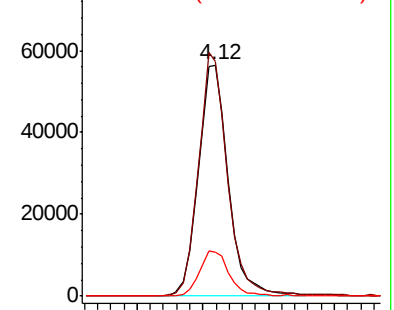
192 19.3 13.4 20.0

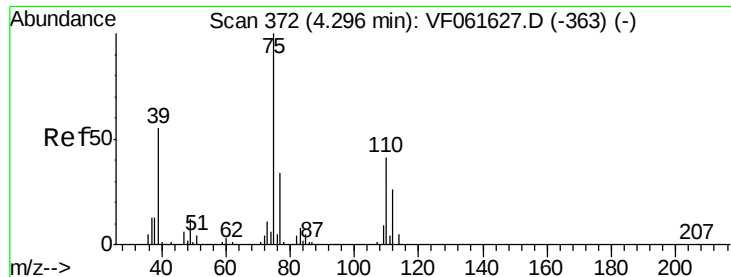


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 2.752 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

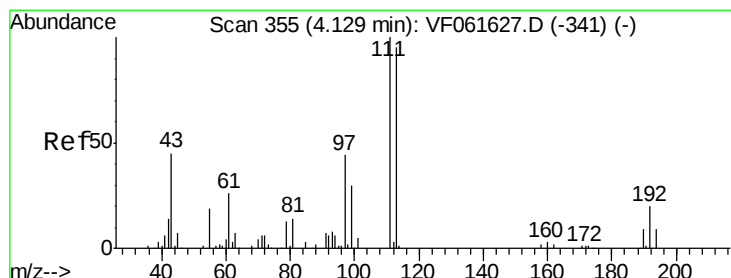
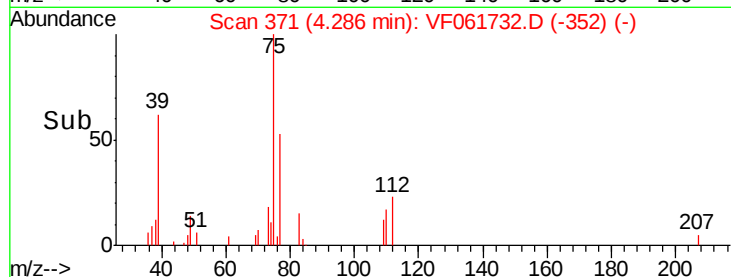
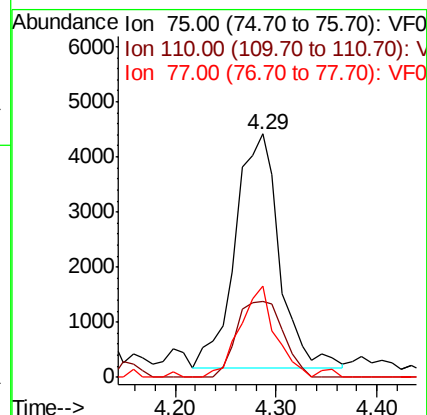
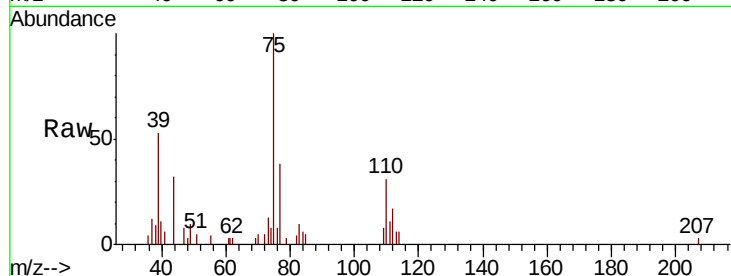
Tgt Ion: 75 Resp: 12849

Ion Ratio Lower Upper

75 100

110 31.4 20.5 61.6

77 37.7 27.0 40.4



#37

Ethyl Acetate

Concen: 2.116 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

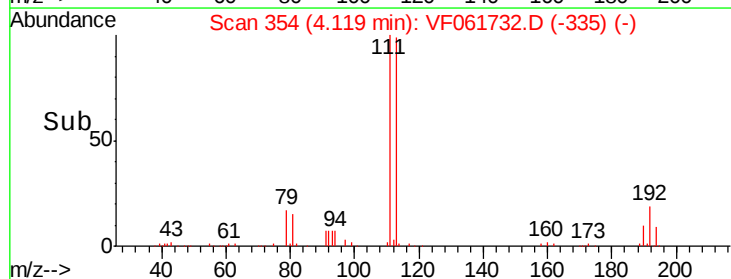
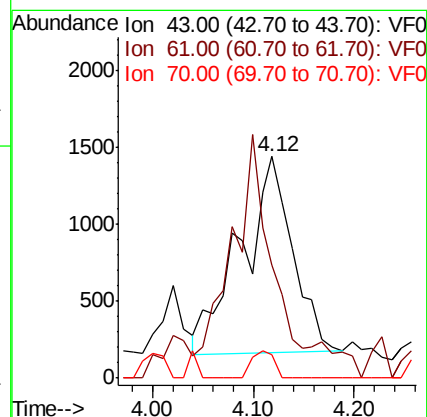
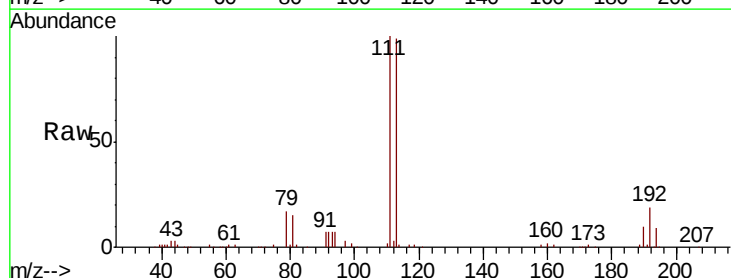
Tgt Ion: 43 Resp: 4588

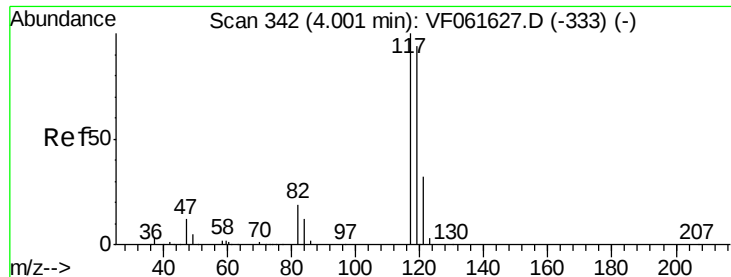
Ion Ratio Lower Upper

43 100

61 51.2 45.7 68.5

70 10.8 8.5 12.7

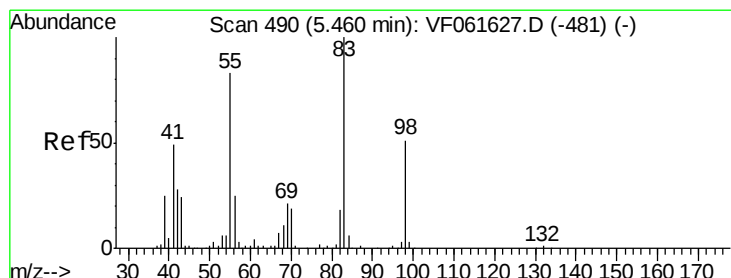
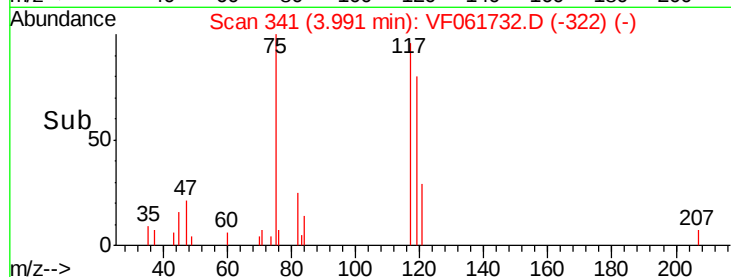
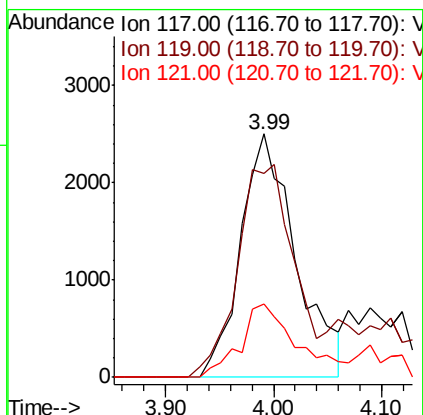
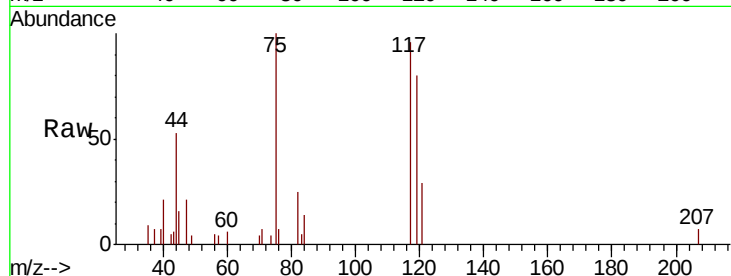




#38
Carbon Tetrachloride
Concen: 2.769 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

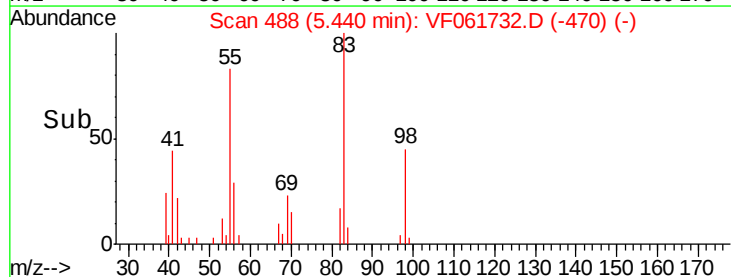
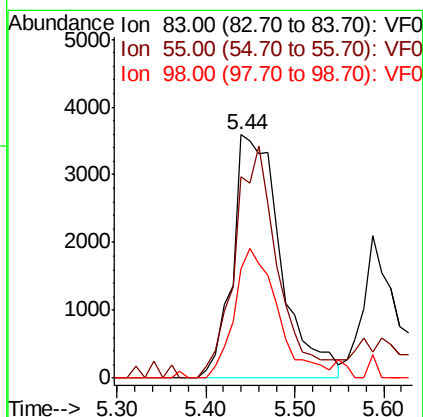
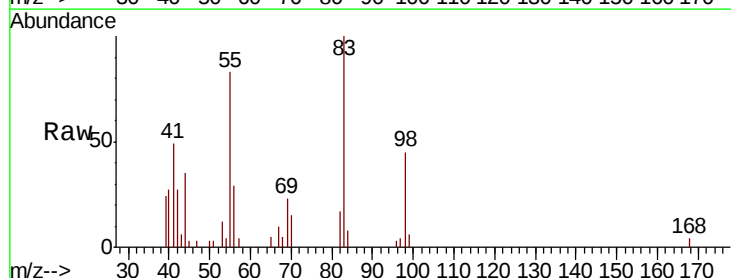
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

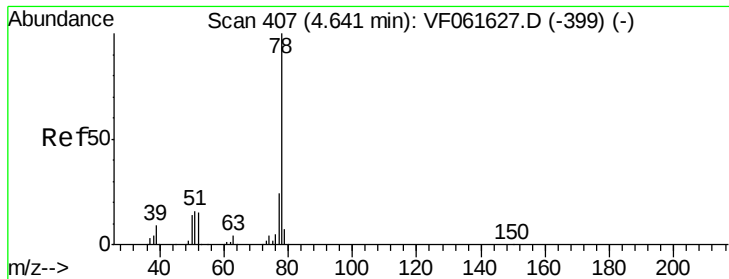
Tgt Ion: 117 Resp: 8929
Ion Ratio Lower Upper
117 100
119 83.7 75.6 113.4
121 30.0 25.2 37.8



#39
Methylcyclohexane
Concen: 2.439 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 83 Resp: 13466
Ion Ratio Lower Upper
83 100
55 82.7 66.6 99.8
98 44.8 40.4 60.6





#40

Benzene

Concen: 2.367 ug/l

RT: 4.63 min Scan# 406

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

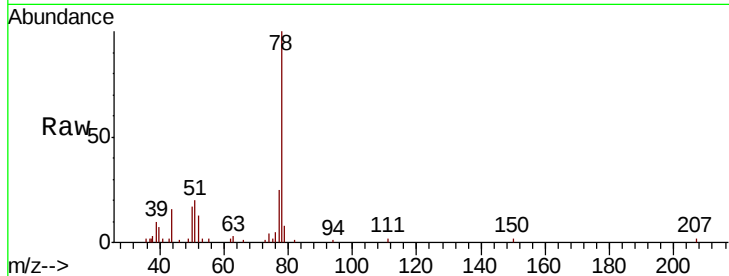
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 78 Resp: 28907

Ion Ratio Lower Upper

78 100

77 25.3 19.0 28.6



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.63

10000

8000

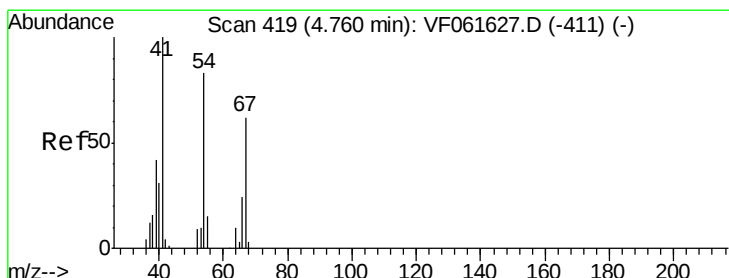
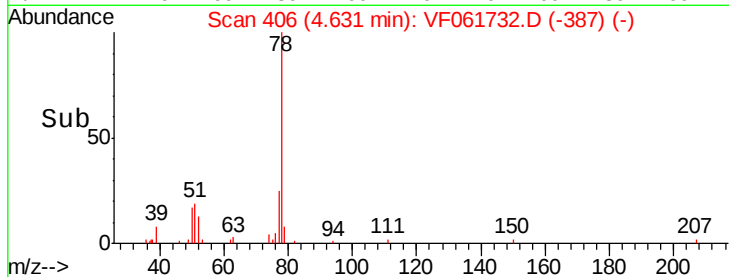
6000

4000

2000

0

Time-->



#41

Methacrylonitrile

Concen: 3.410 ug/l

RT: 4.75 min Scan# 418

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Tgt Ion: 41 Resp: 3782

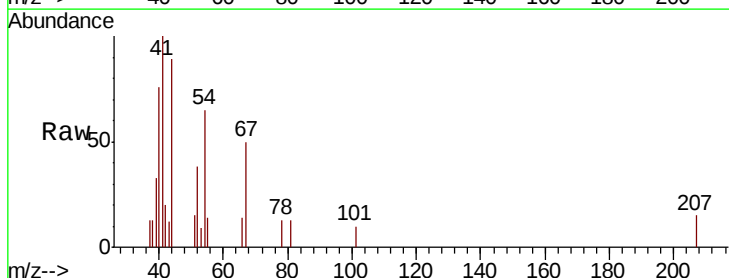
Ion Ratio Lower Upper

41 100

39 33.5 45.3 67.9#

67 49.6 49.3 73.9

52 37.7 32.6 49.0



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

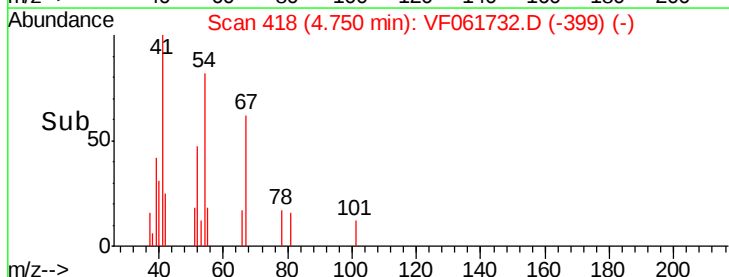
30000

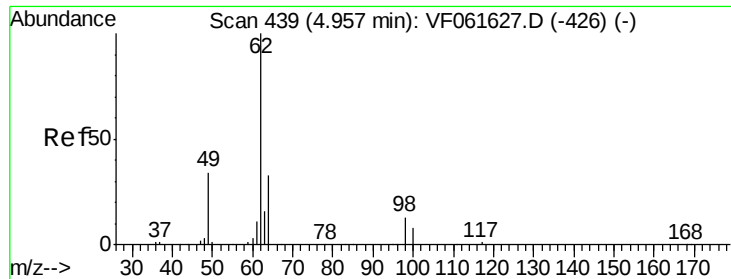
20000

10000

0

Time-->

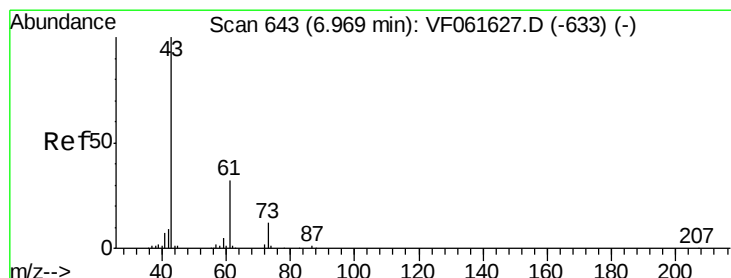
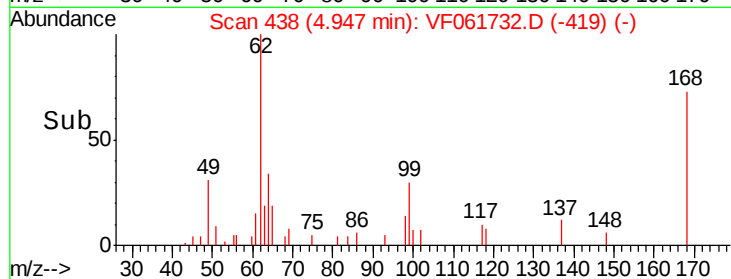
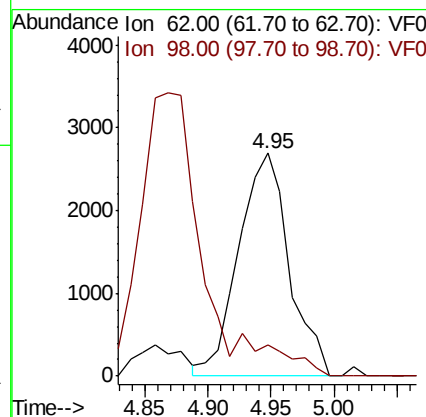
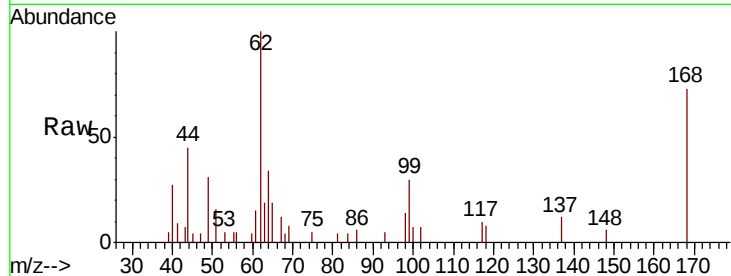




#42
1,2-Dichloroethane
Concen: 2.563 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

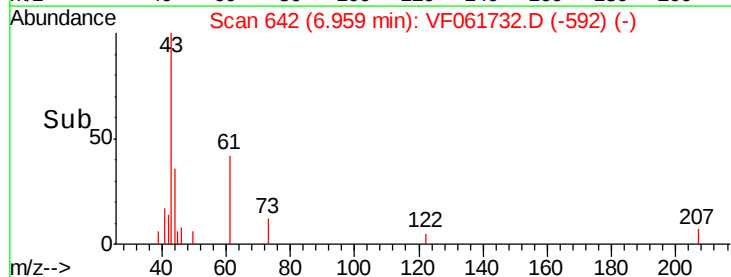
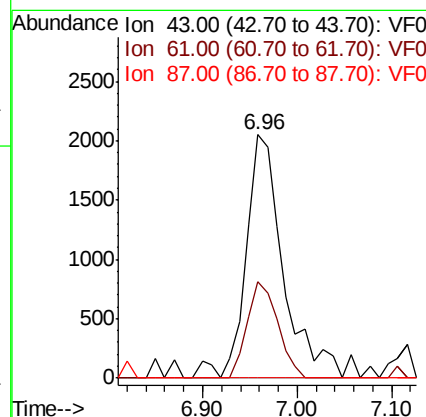
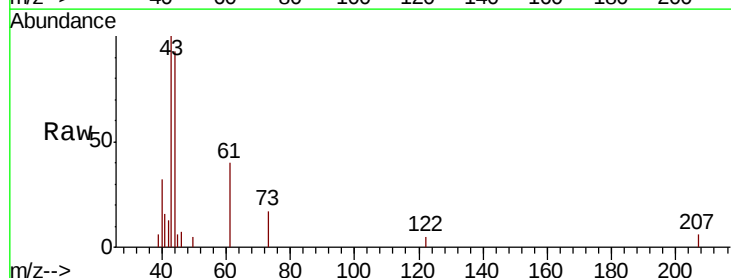
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

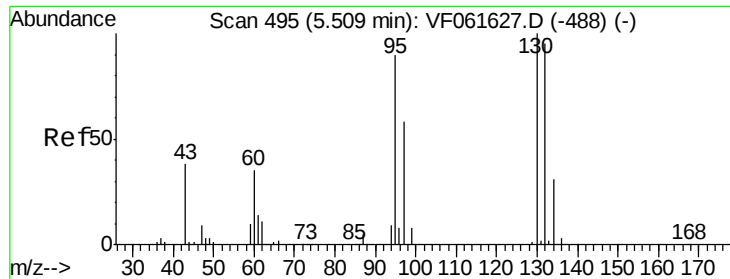
Tgt Ion: 62 Resp: 7489
Ion Ratio Lower Upper
62 100
98 13.9 0.0 26.0



#43
Isopropyl Acetate
Concen: 2.192 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 43 Resp: 5628
Ion Ratio Lower Upper
43 100
61 39.6 25.8 38.6#
87 0.0 0.4 0.6#

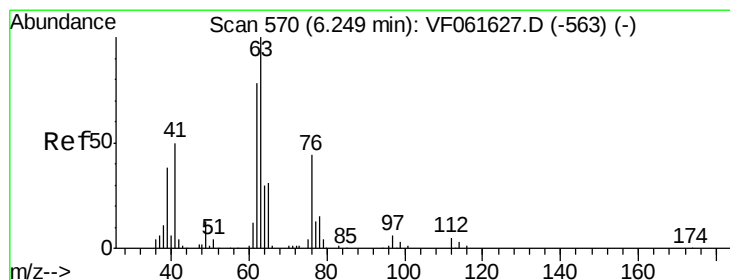
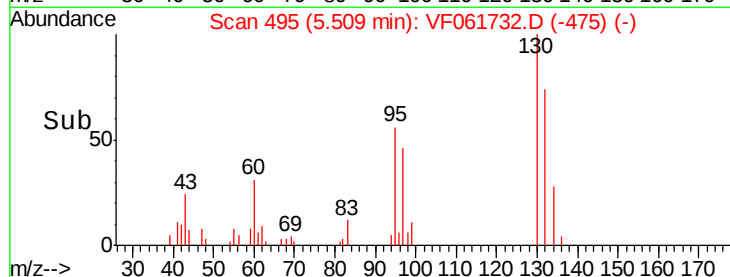
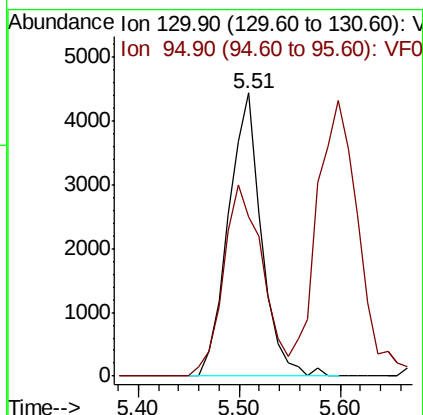
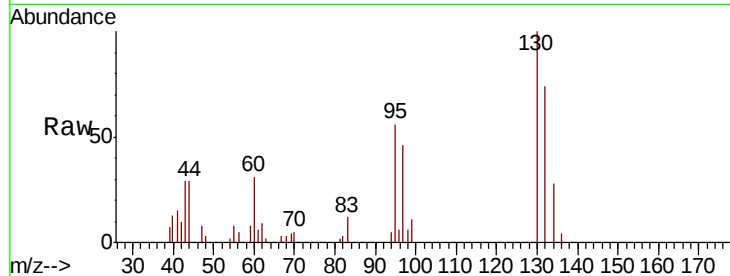




#44
 Trichloroethene
 Concen: 2.554 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

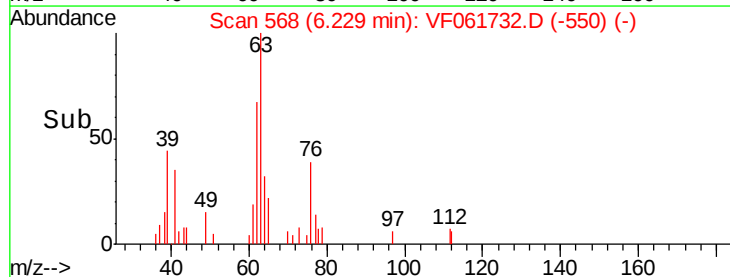
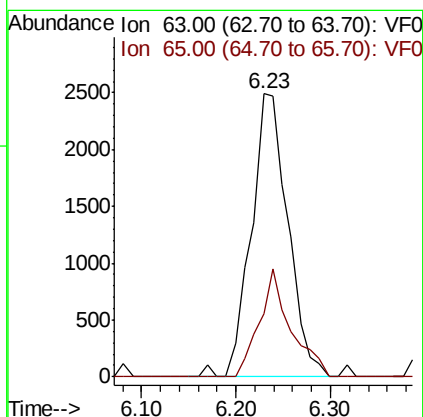
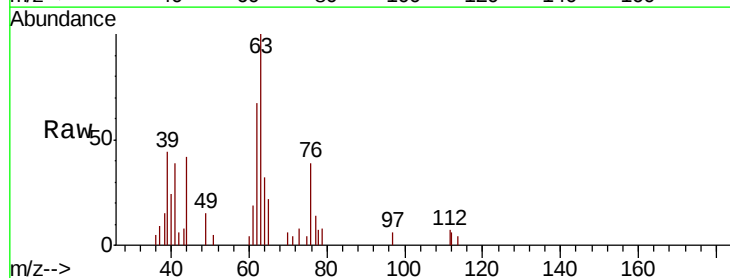
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

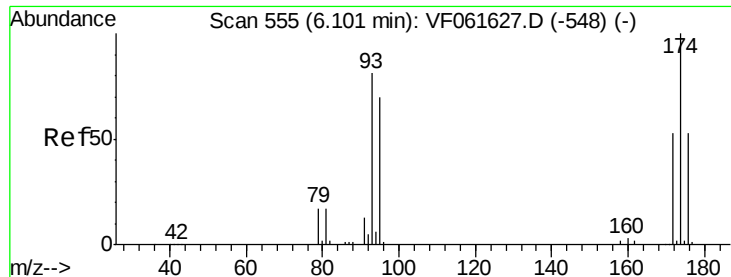
Tgt Ion:130 Resp: 10087
 Ion Ratio Lower Upper
 130 100
 95 56.1 0.0 179.4



#45
 1,2-Dichloropropane
 Concen: 2.277 ug/l
 RT: 6.23 min Scan# 568
 Delta R.T. -0.02 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 63 Resp: 6723
 Ion Ratio Lower Upper
 63 100
 65 22.2 24.9 37.3#

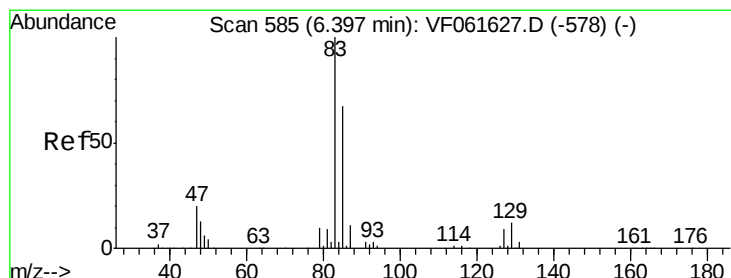
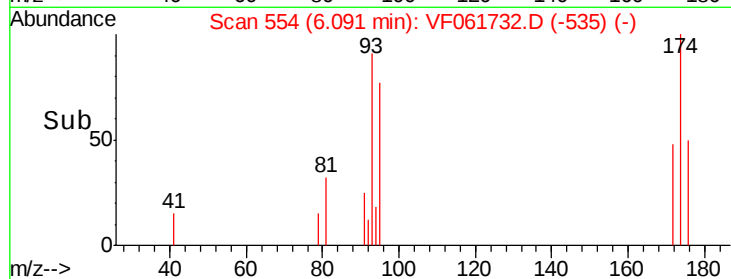
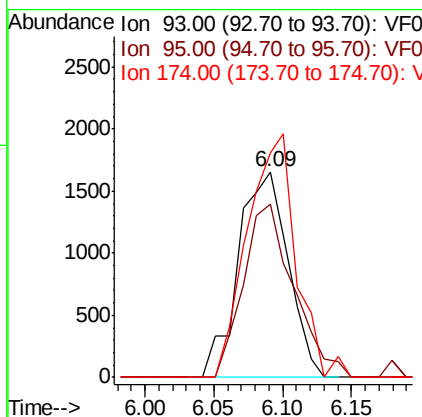
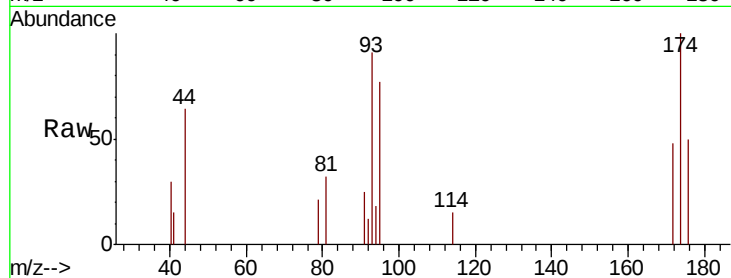




#46
 Dibromomethane
 Concen: 2.290 ug/l
 RT: 6.09 min Scan# 554
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

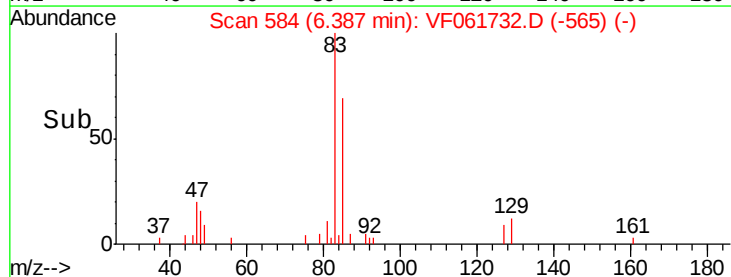
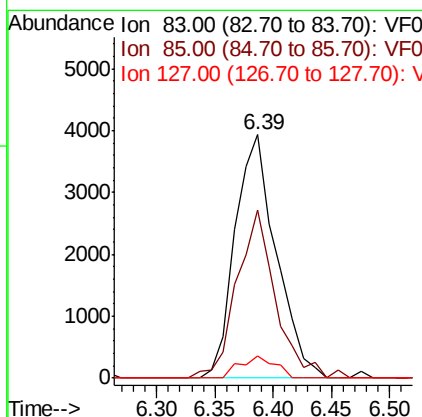
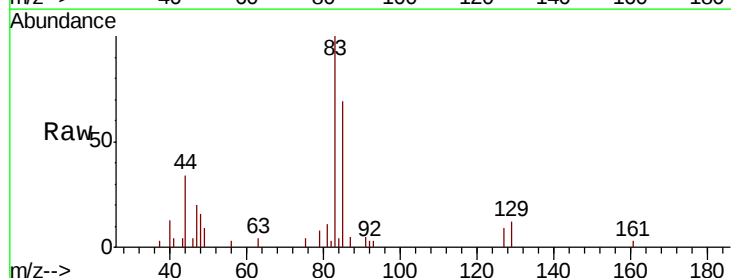
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

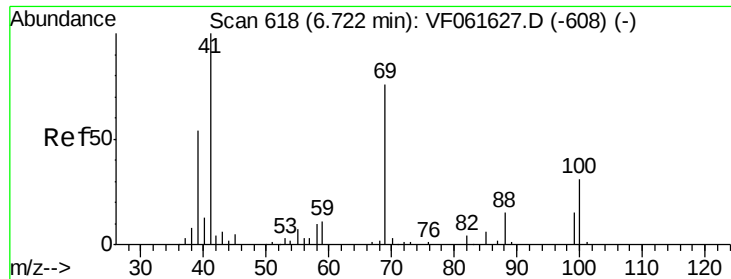
Tgt Ion: 93 Resp: 4163
 Ion Ratio Lower Upper
 93 100
 95 84.3 69.0 103.6
 174 109.3 99.3 148.9



#47
 Bromodichloromethane
 Concen: 2.415 ug/l
 RT: 6.39 min Scan# 584
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 83 Resp: 9611
 Ion Ratio Lower Upper
 83 100
 85 69.0 53.4 80.2
 127 9.0 7.5 11.3

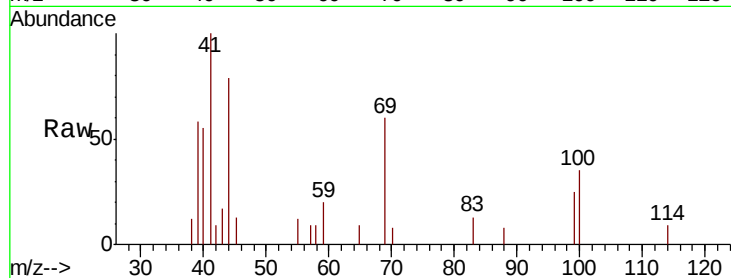




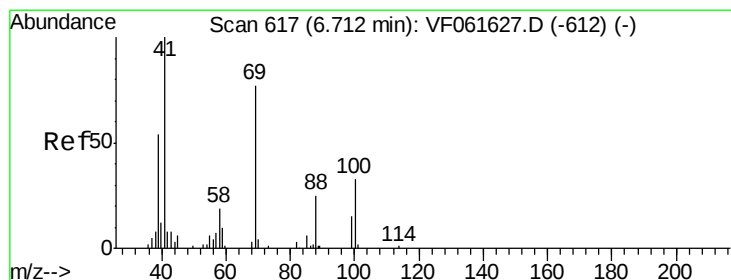
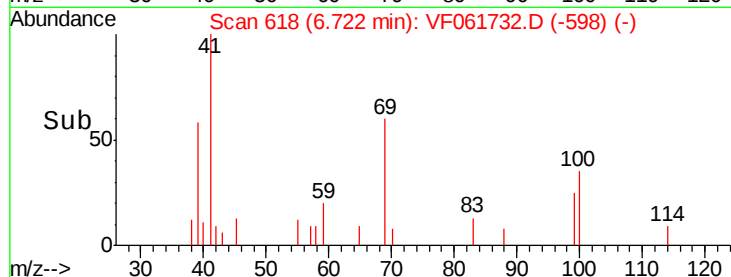
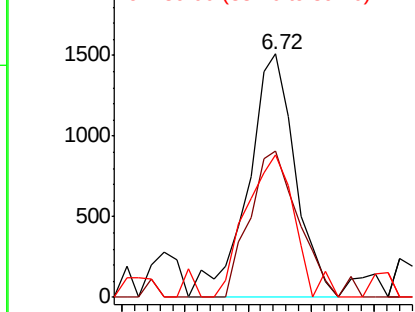
#48
Methyl methacrylate
Concen: 2.534 ug/l
RT: 6.72 min Scan# 618
Delta R.T. -0.00 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 41 Resp: 3914
Ion Ratio Lower Upper
41 100
69 60.2 60.4 90.6#
39 58.4 43.7 65.5

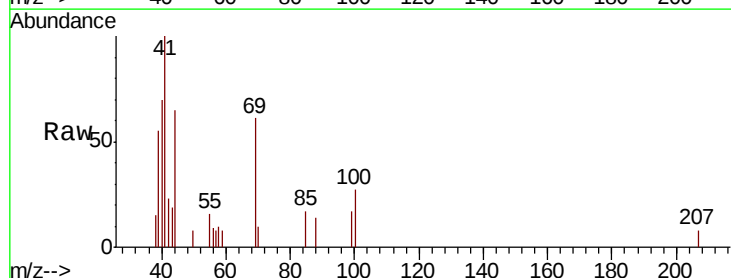


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

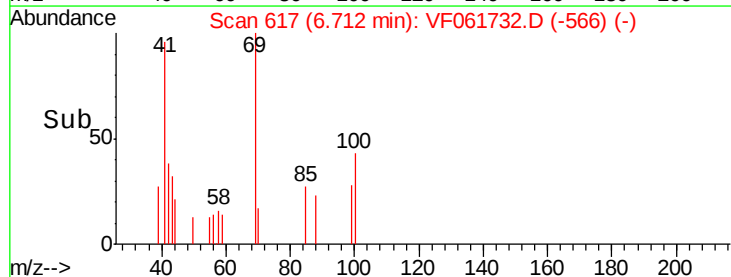
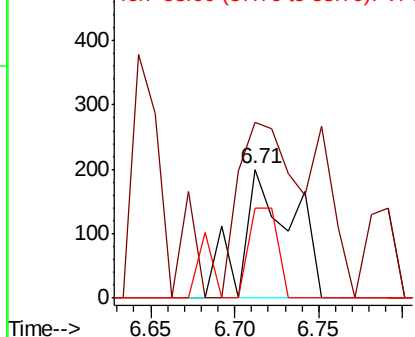


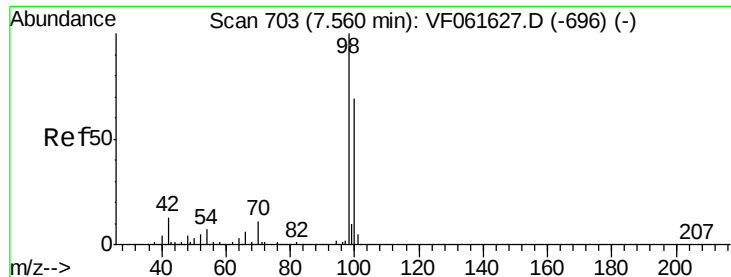
#49
1,4-Dioxane
Concen: 28.852 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 88 Resp: 419
Ion Ratio Lower Upper
88 100
43 136.0 32.3 48.5#
58 69.5 59.4 89.2



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 50.691 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

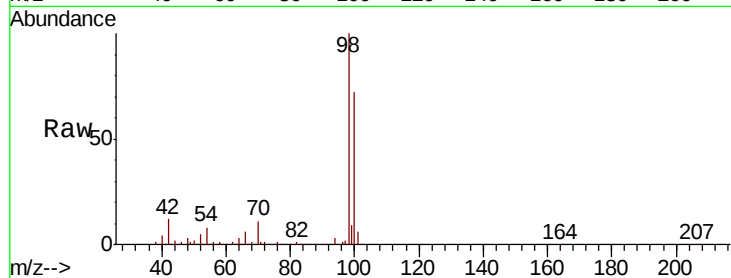
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 98 Resp: 510059

Ion Ratio Lower Upper

98 100

100 72.1 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

250000

200000

150000

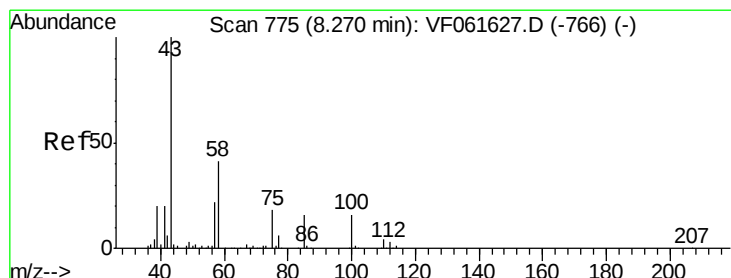
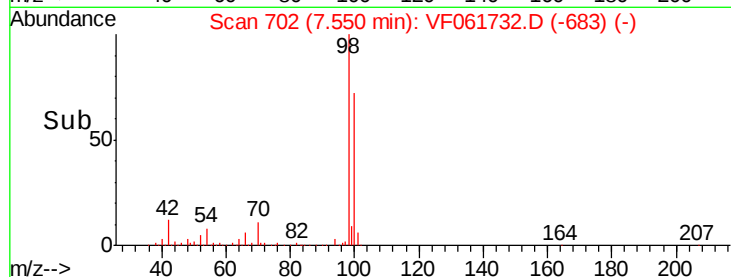
100000

50000

0

7.40 7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 11.755 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061732.D

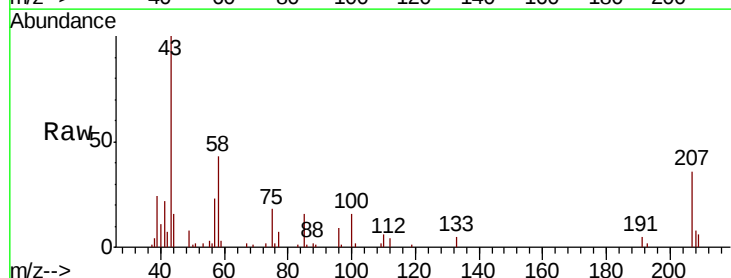
Acq: 25 Feb 2019 16:07

Tgt Ion: 43 Resp: 21561

Ion Ratio Lower Upper

43 100

58 42.8 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8000

6000

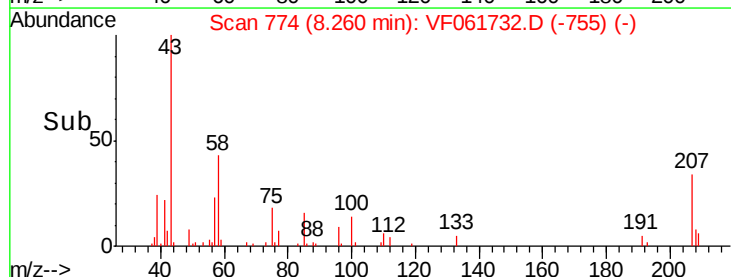
4000

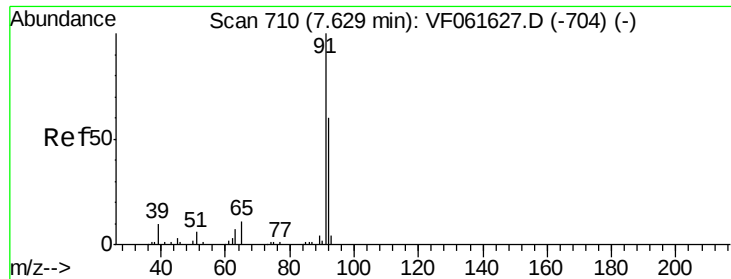
2000

0

8.10 8.20 8.30 8.40

Time-->





#52

Toluene

Concen: 2.873 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

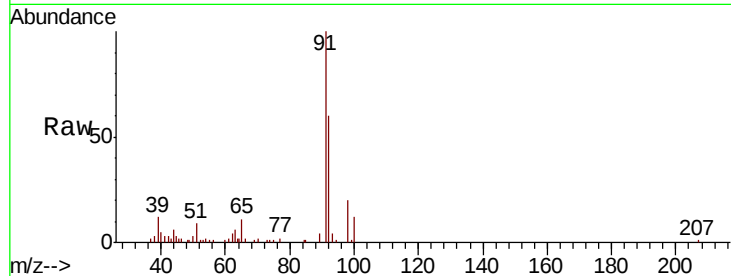
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 92 Resp: 21279

Ion Ratio Lower Upper

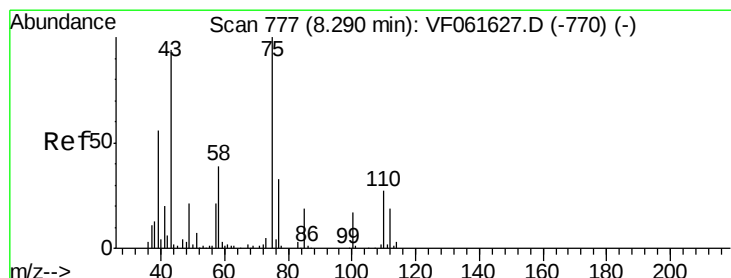
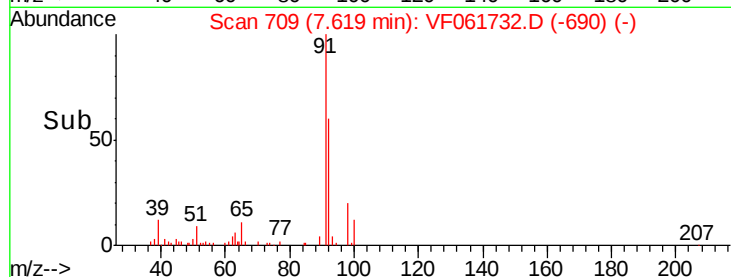
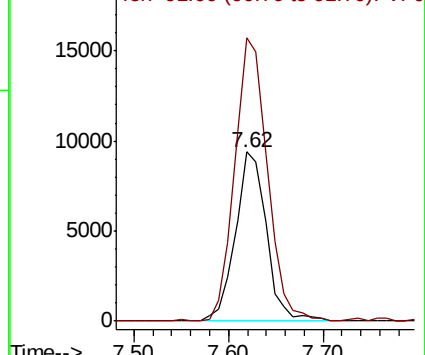
92 100

91 167.2 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 2.350 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF061732.D

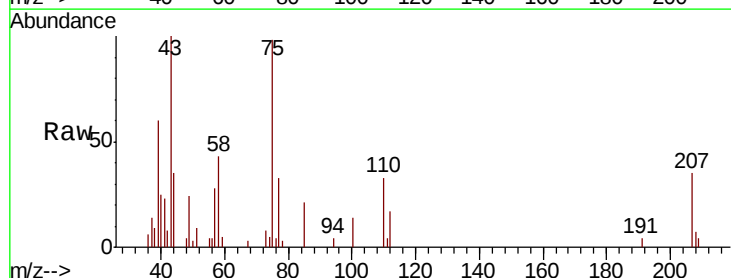
Acq: 25 Feb 2019 16:07

Tgt Ion: 75 Resp: 7785

Ion Ratio Lower Upper

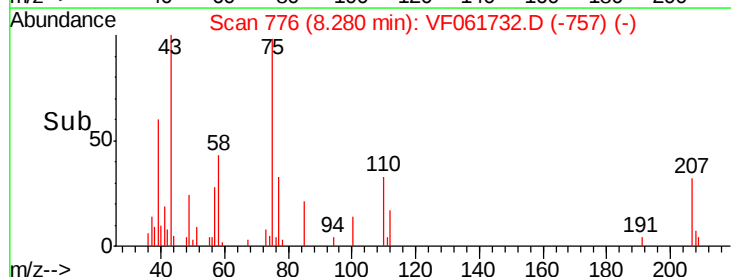
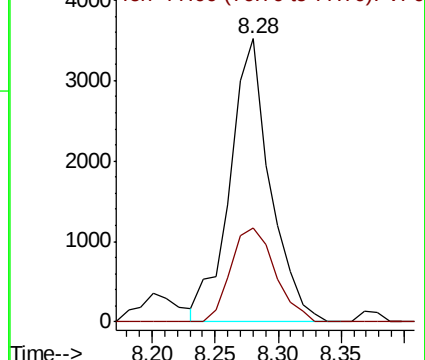
75 100

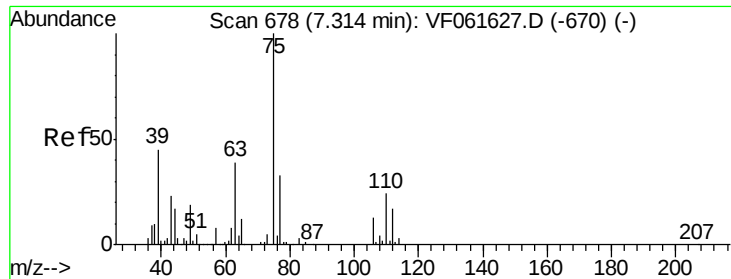
77 33.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 2.311 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

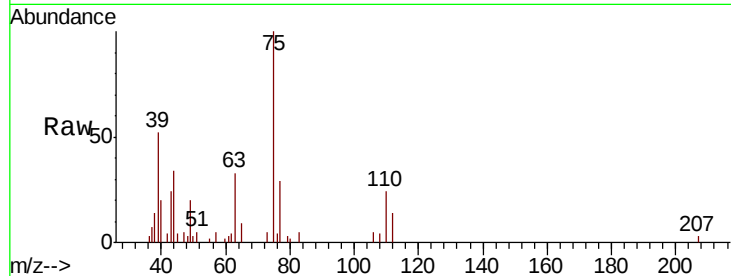
Tgt Ion: 75 Resp: 10199

Ion Ratio Lower Upper

75 100

77 28.8 26.4 39.6

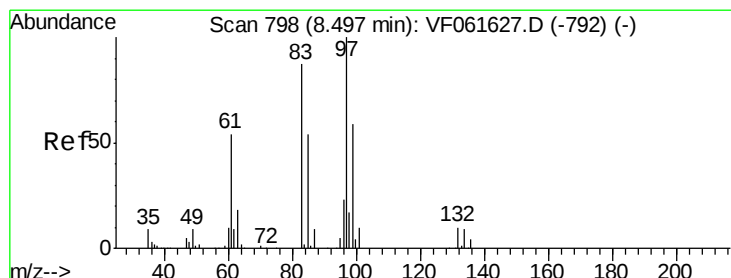
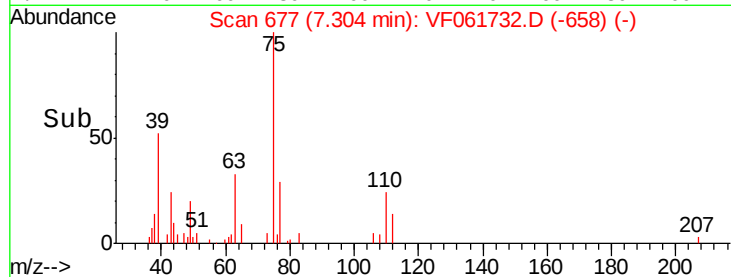
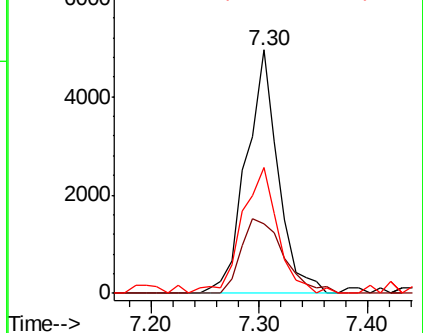
39 51.7 36.0 54.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#55

1,1,2-Trichloroethane

Concen: 2.283 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Tgt Ion: 97 Resp: 4968

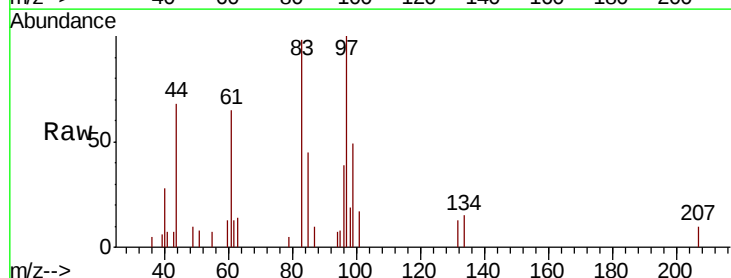
Ion Ratio Lower Upper

97 100

83 97.9 69.2 103.8

85 44.8 43.0 64.4

99 49.2 47.2 70.8

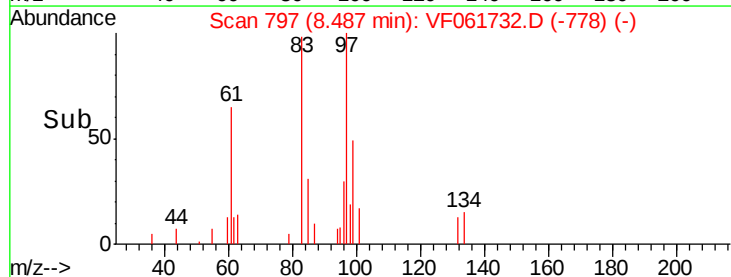
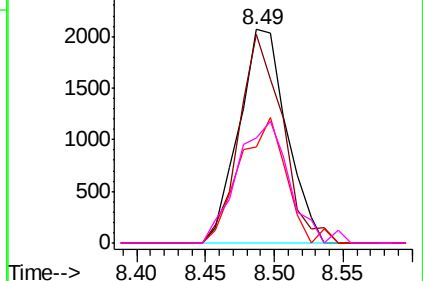


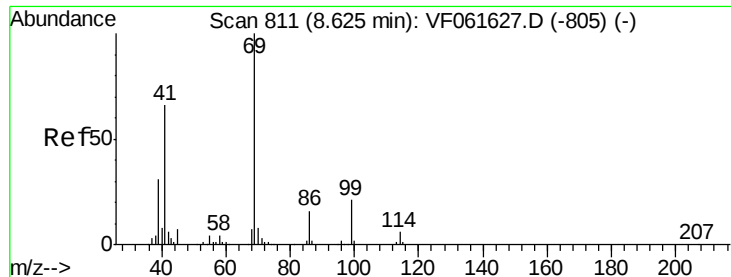
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0





#56

Ethyl methacrylate

Concen: 2.564 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

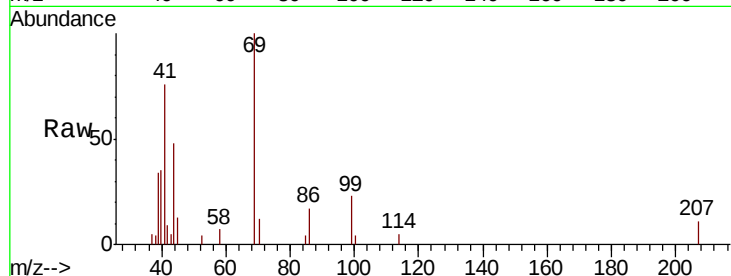
Tgt Ion: 69 Resp: 6213

Ion Ratio Lower Upper

69 100

41 76.1 52.9 79.3

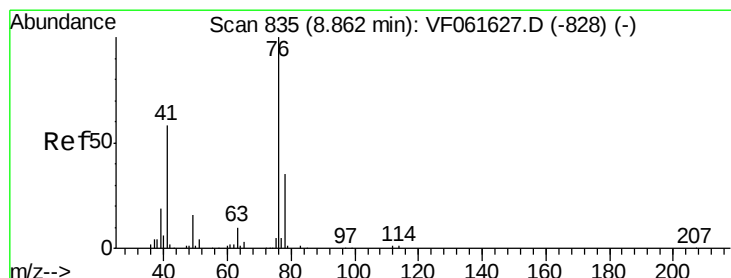
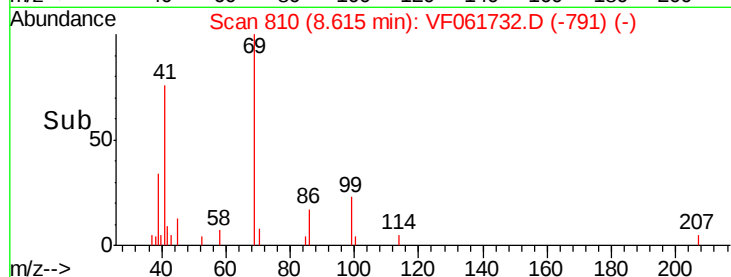
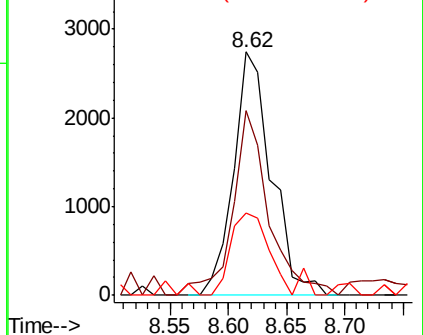
39 33.9 24.5 36.7



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 2.368 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061732.D

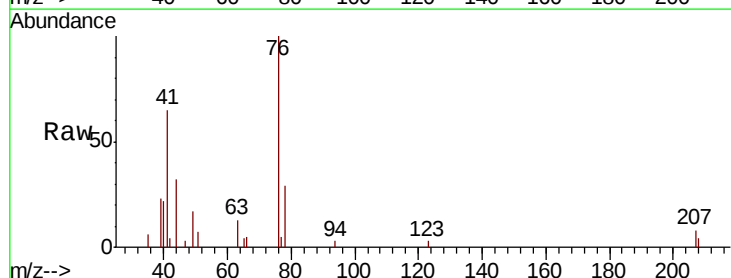
Acq: 25 Feb 2019 16:07

Tgt Ion: 76 Resp: 8602

Ion Ratio Lower Upper

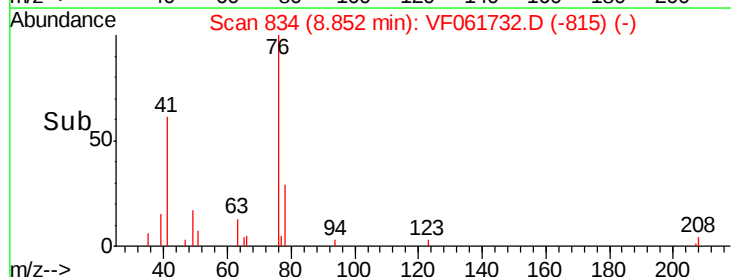
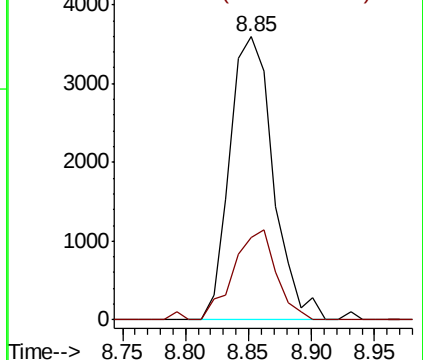
76 100

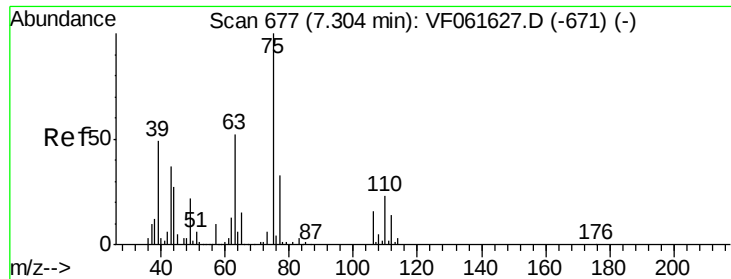
78 29.3 27.8 41.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

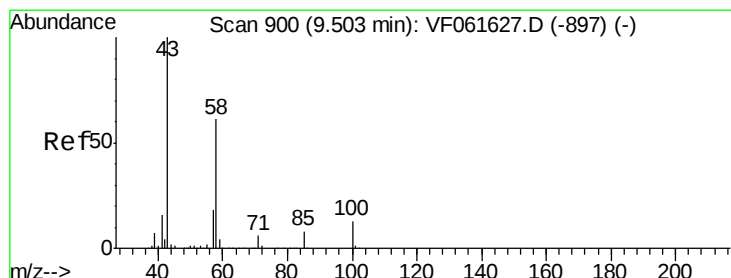
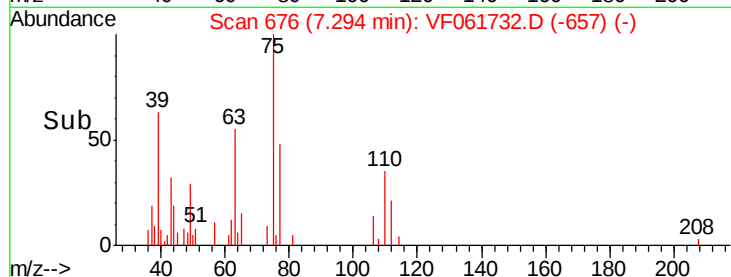
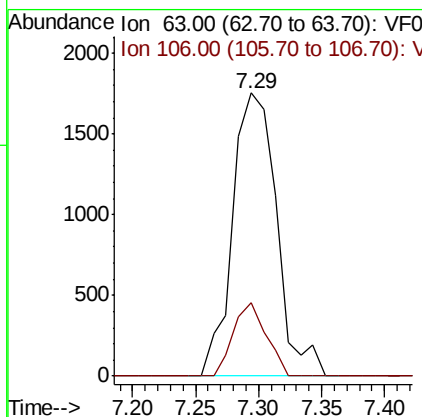
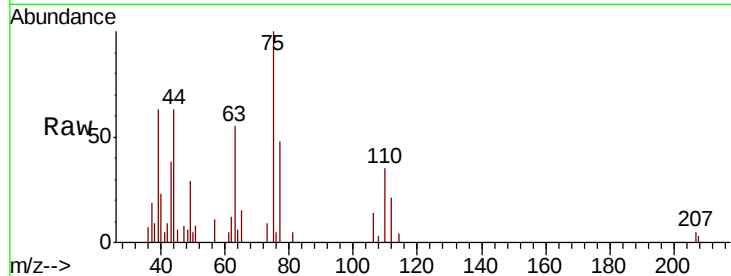




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.154 ug/l
 RT: 7.29 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

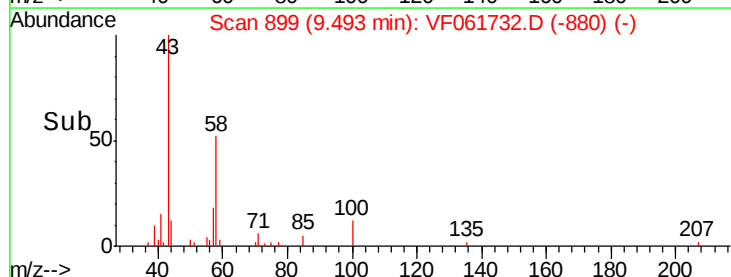
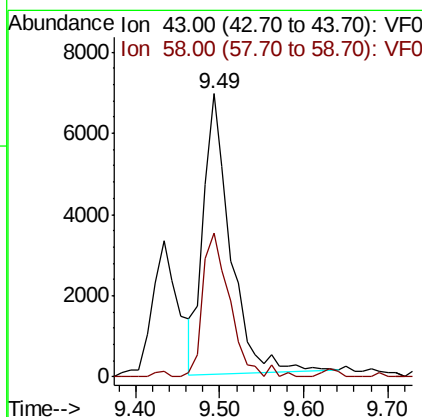
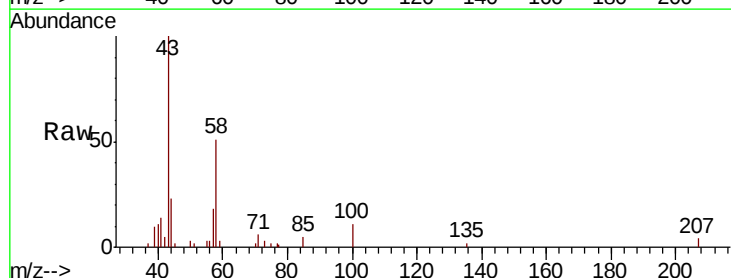
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

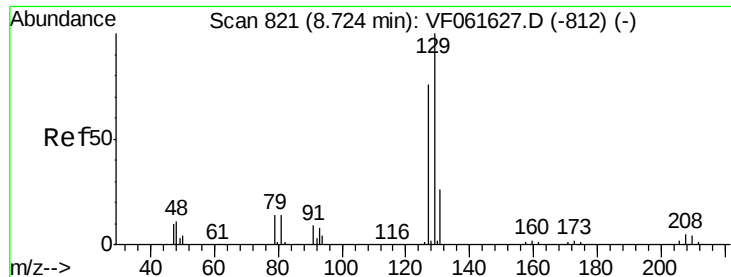
Tgt Ion: 63 Resp: 4245
 Ion Ratio Lower Upper
 63 100
 106 26.0 24.6 36.8



#59
 2-Hexanone
 Concen: 11.935 ug/l
 RT: 9.49 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 43 Resp: 15346
 Ion Ratio Lower Upper
 43 100
 58 51.0 28.5 85.5





#60

Dibromochloromethane

Concen: 2.240 ug/l

RT: 8.70 min Scan# 819

Delta R.T. -0.02 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

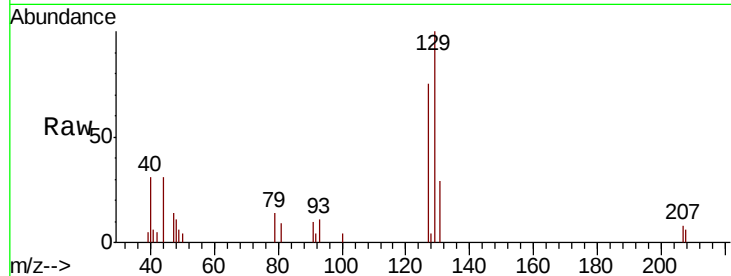
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:129 Resp: 6784

Ion Ratio Lower Upper

129 100

127 74.7 37.8 113.4

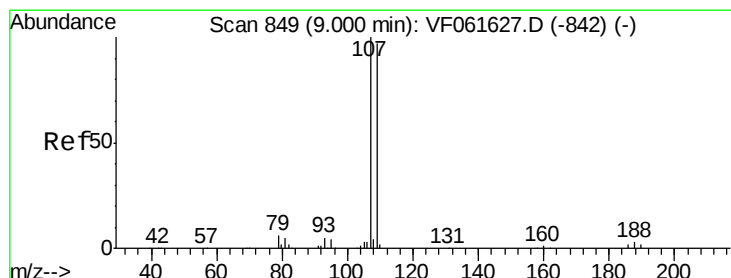
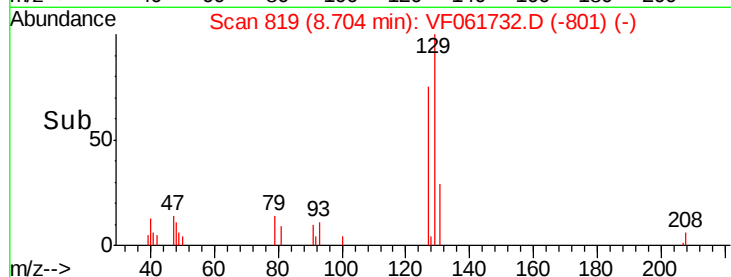


Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.70

Time--> 8.60 8.65 8.70 8.75 8.80



#61

1,2-Dibromoethane

Concen: 2.490 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061732.D

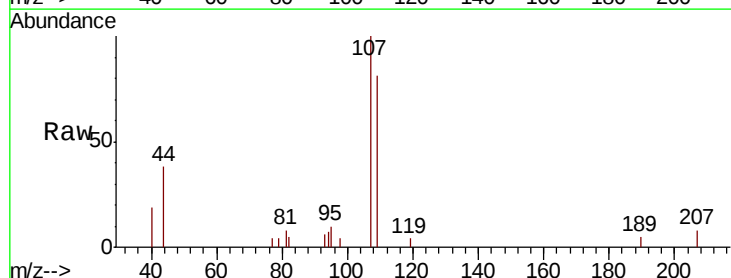
Acq: 25 Feb 2019 16:07

Tgt Ion:107 Resp: 5877

Ion Ratio Lower Upper

107 100

109 81.0 77.4 116.0

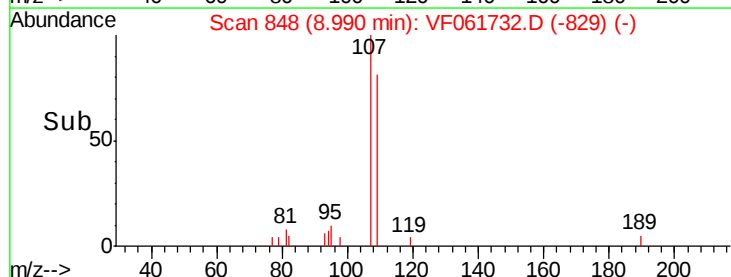


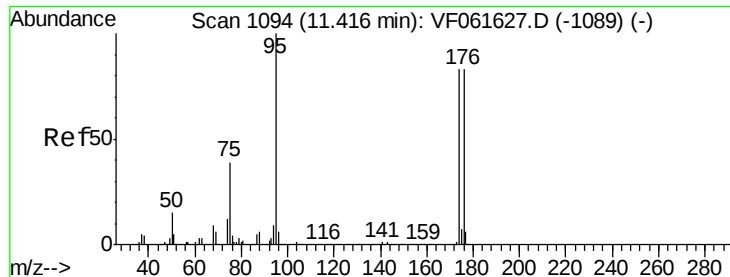
Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.99

Time--> 8.90 8.95 9.00 9.05

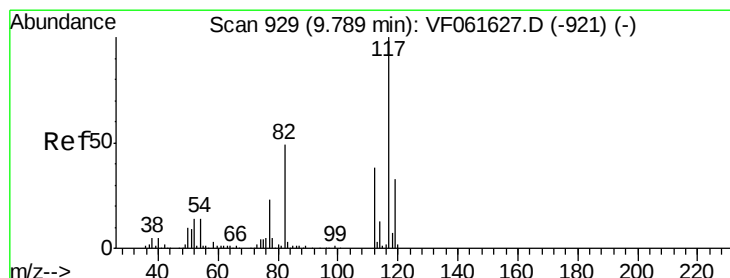
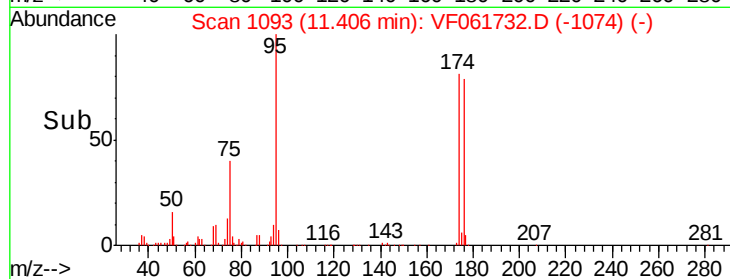
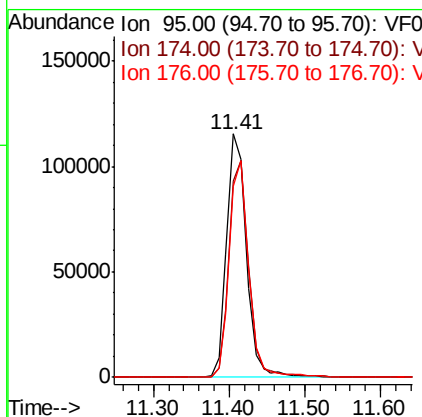
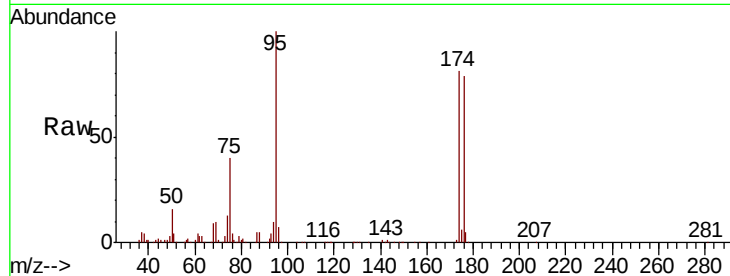




#62
4-Bromofluorobenzene
Concen: 51.590 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

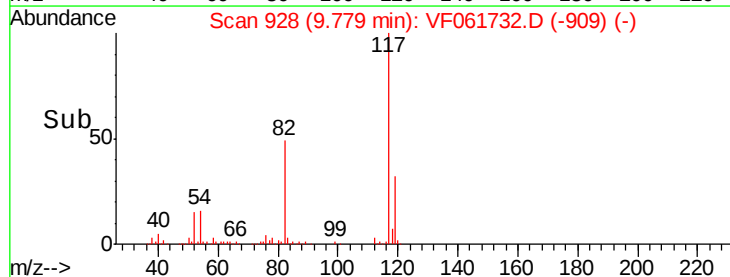
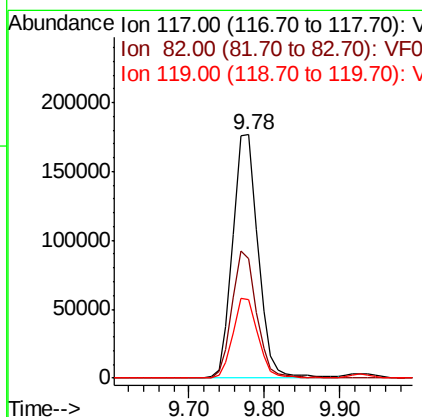
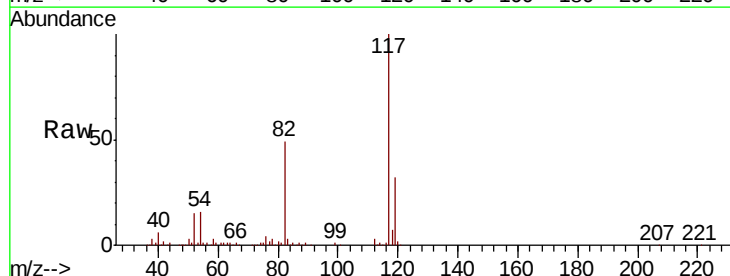
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

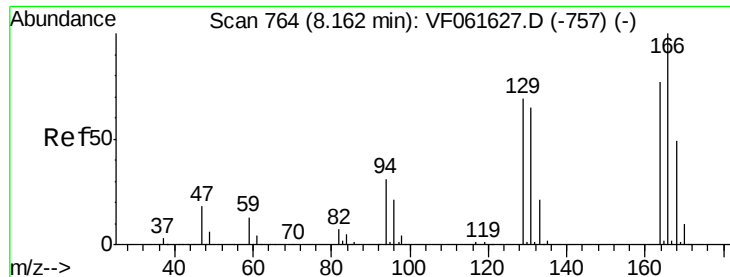
Tgt Ion: 95 Resp: 210039
Ion Ratio Lower Upper
95 100
174 80.5 0.0 165.8
176 78.7 0.0 167.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion: 117 Resp: 413178
Ion Ratio Lower Upper
117 100
82 48.9 39.3 58.9
119 32.5 26.6 40.0





#64

Tetrachloroethene

Concen: 2.799 ug/l

RT: 8.15 min Scan# 763

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:164 Resp: 9454

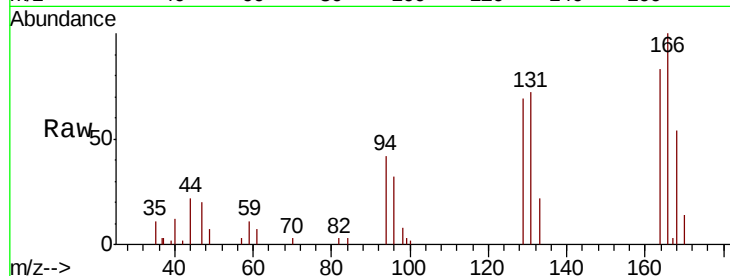
Ion Ratio Lower Upper

164 100

166 120.0 103.9 155.9

129 83.1 71.3 106.9

131 86.2 67.1 100.7

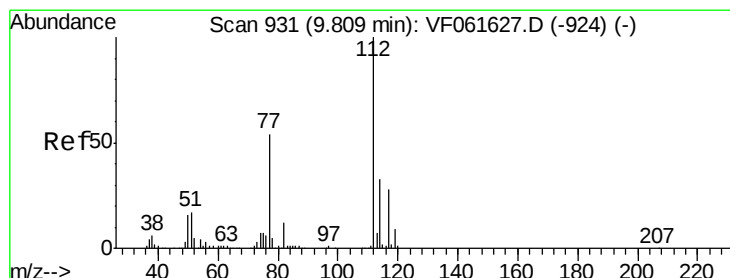
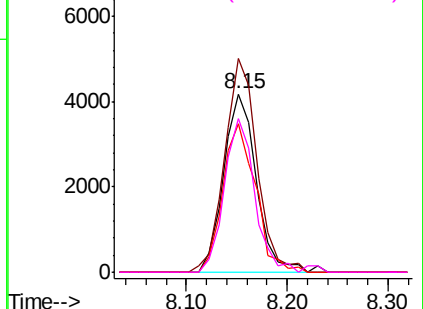
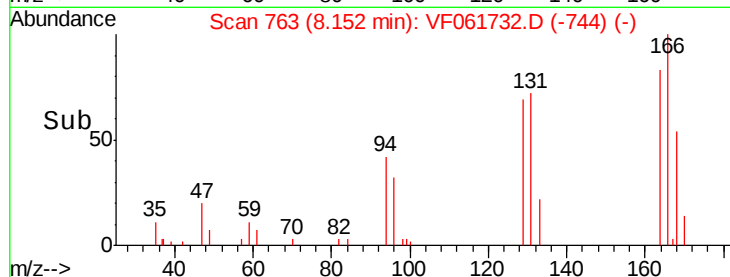


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#65

Chlorobenzene

Concen: 2.710 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF061732.D

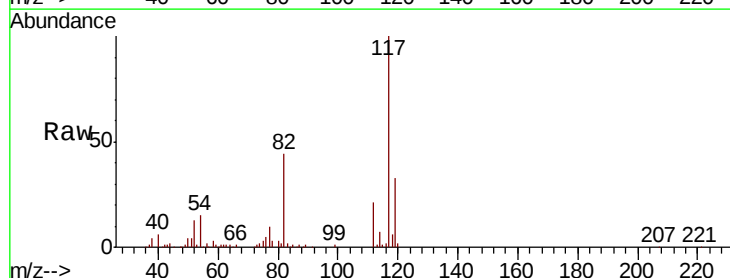
Acq: 25 Feb 2019 16:07

Tgt Ion:112 Resp: 22722

Ion Ratio Lower Upper

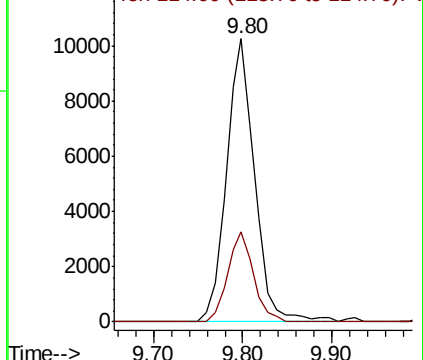
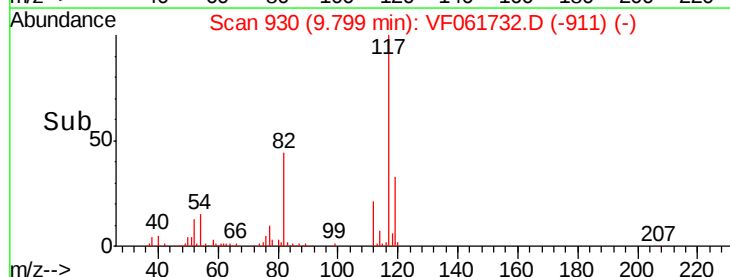
112 100

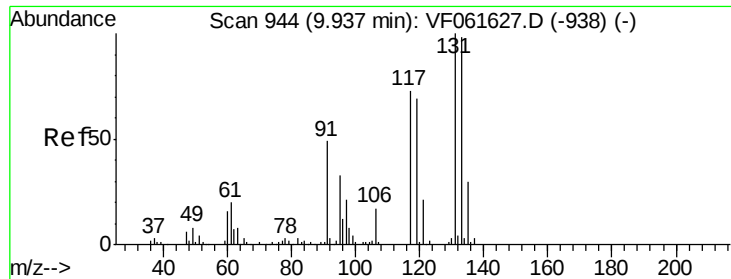
114 32.0 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 2.651 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

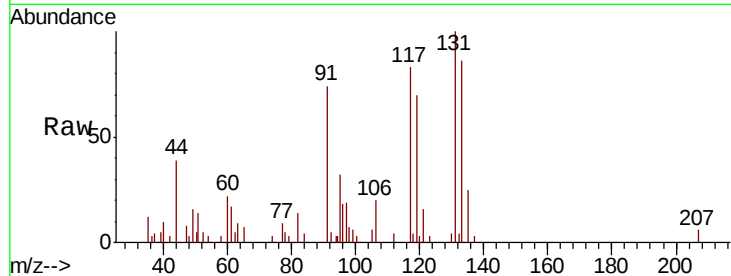
Tgt Ion: 131 Resp: 8709

Ion Ratio Lower Upper

131 100

133 86.4 48.9 146.6

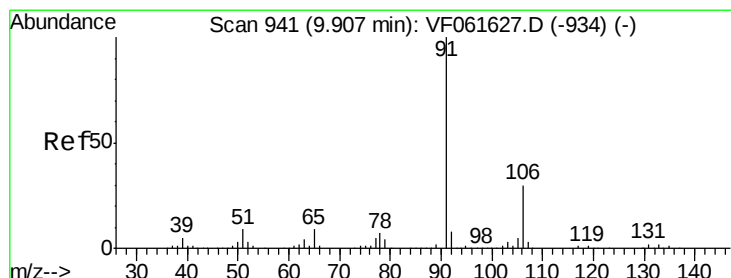
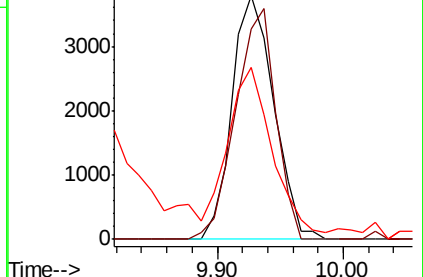
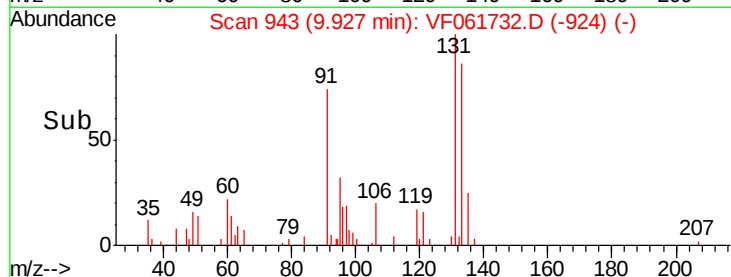
119 70.4 34.8 104.3



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 3.002 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061732.D

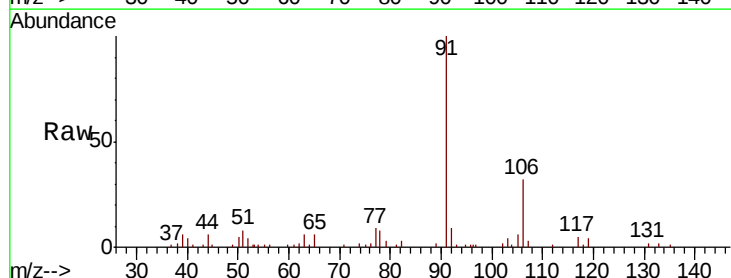
Acq: 25 Feb 2019 16:07

Tgt Ion: 91 Resp: 41860

Ion Ratio Lower Upper

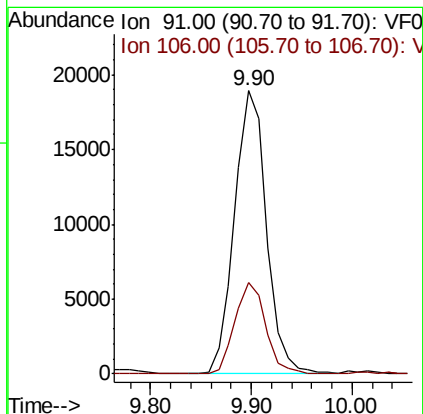
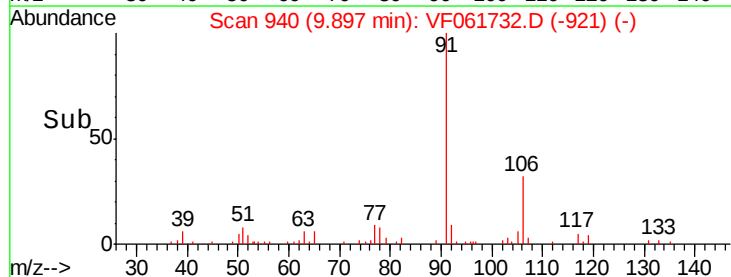
91 100

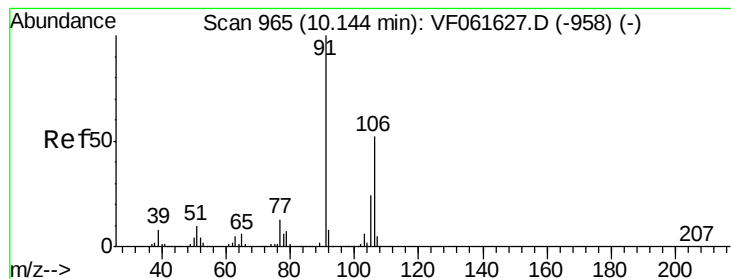
106 32.2 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 6.038 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

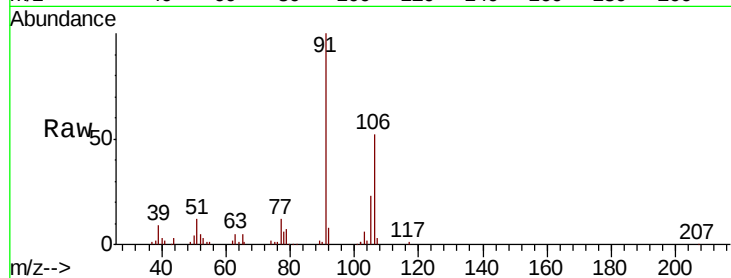
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:106 Resp: 32218

Ion Ratio Lower Upper

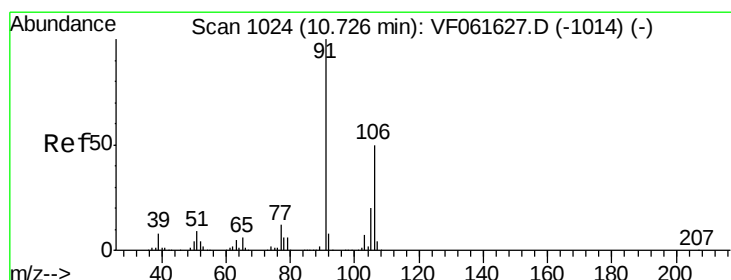
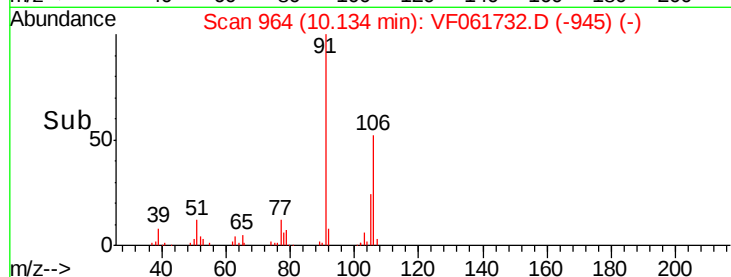
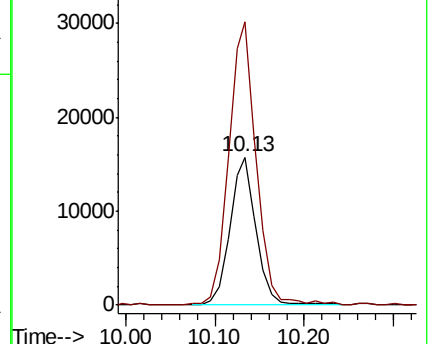
106 100

91 191.4 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 2.676 ug/l

RT: 10.72 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VF061732.D

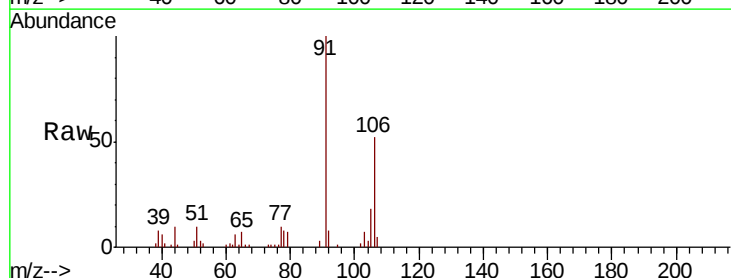
Acq: 25 Feb 2019 16:07

Tgt Ion:106 Resp: 15237

Ion Ratio Lower Upper

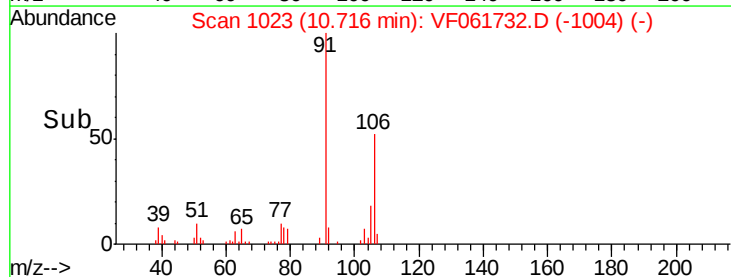
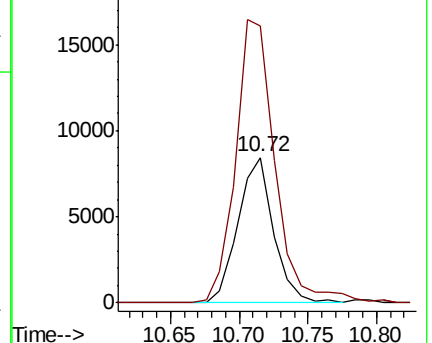
106 100

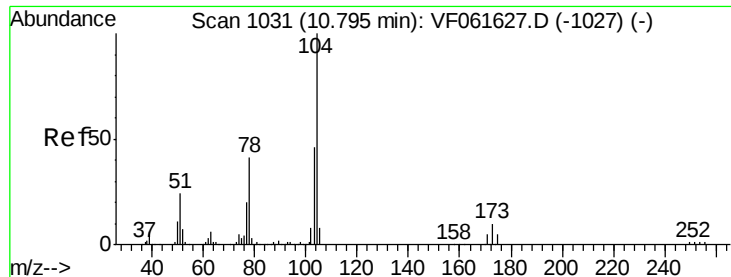
91 191.2 100.1 300.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

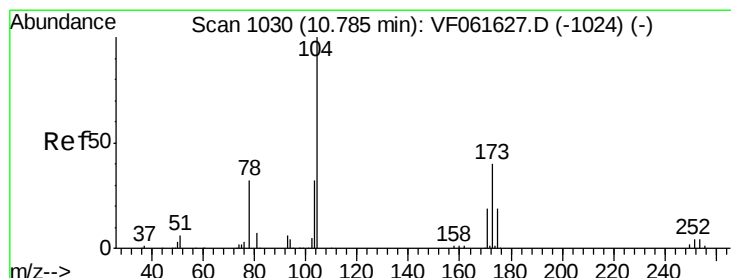
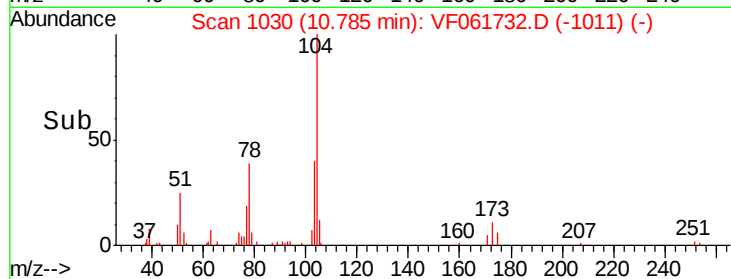
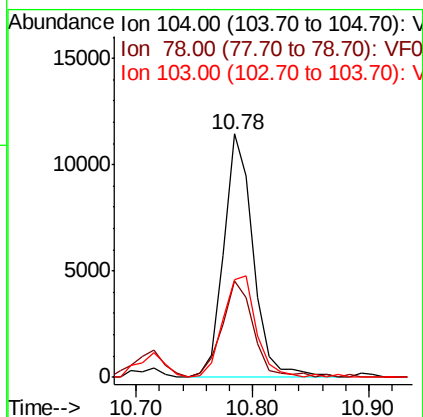
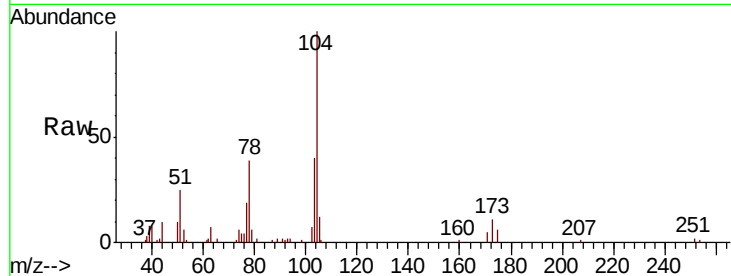




#70
 Styrene
 Concen: 2.489 ug/l
 RT: 10.78 min Scan# 1030
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

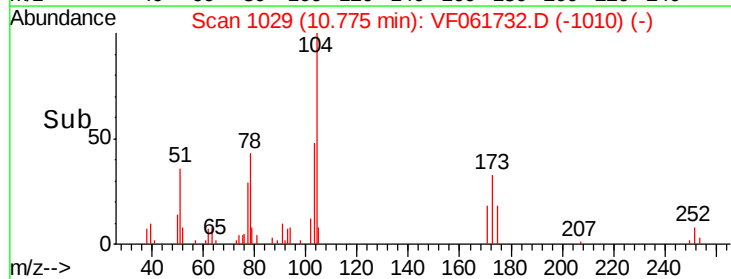
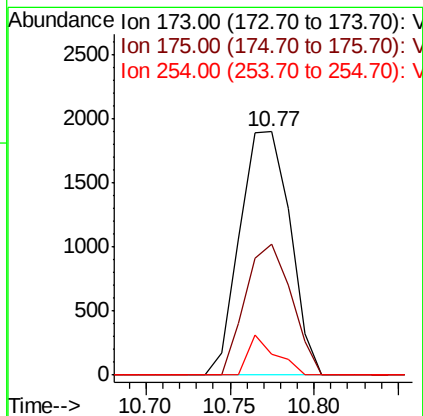
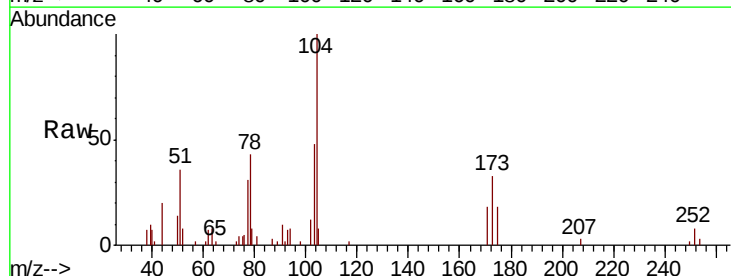
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

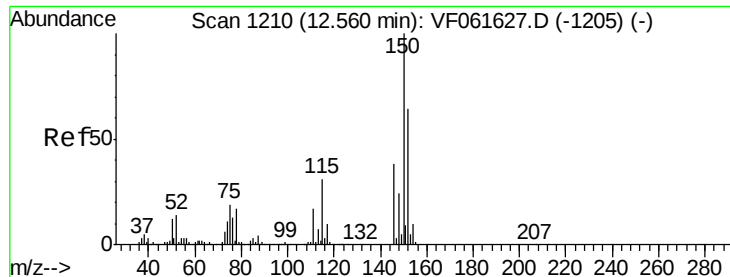
Tgt Ion:104 Resp: 20052
 Ion Ratio Lower Upper
 104 100
 78 39.5 33.2 49.8
 103 40.3 37.2 55.8



#71
 Bromoform
 Concen: 2.208 ug/l
 RT: 10.77 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion:173 Resp: 3939
 Ion Ratio Lower Upper
 173 100
 175 53.9 24.0 72.0
 254 8.5 8.2 12.2



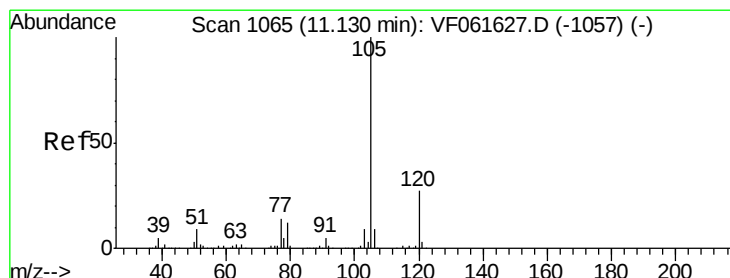
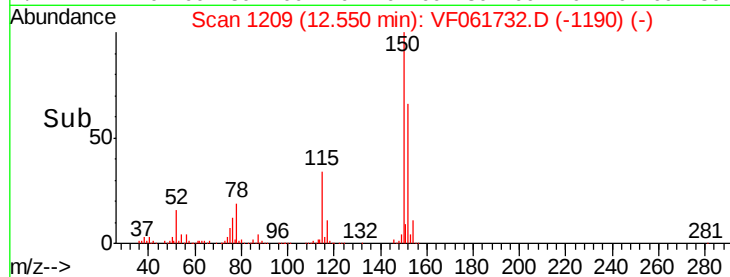
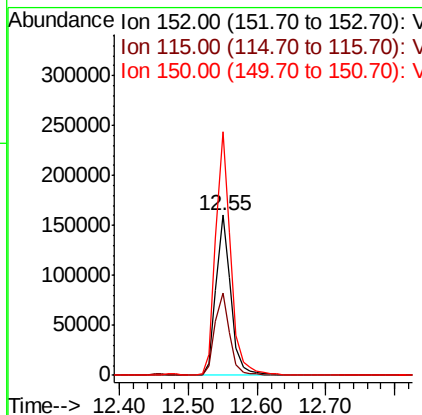
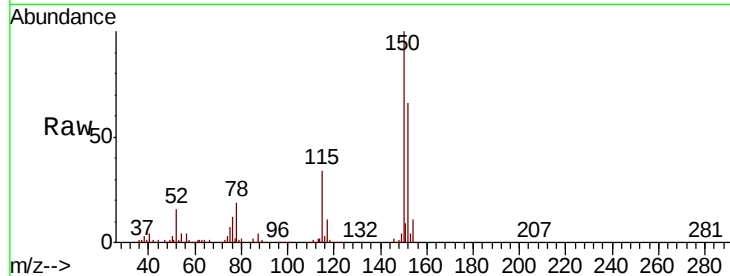


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

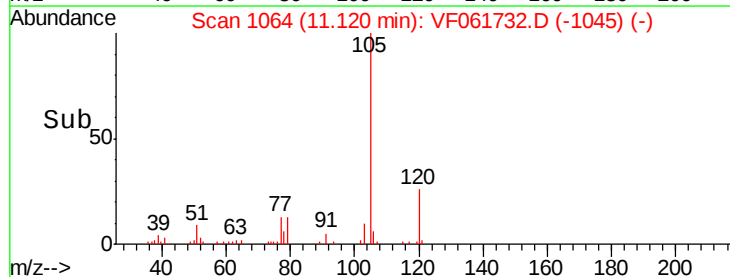
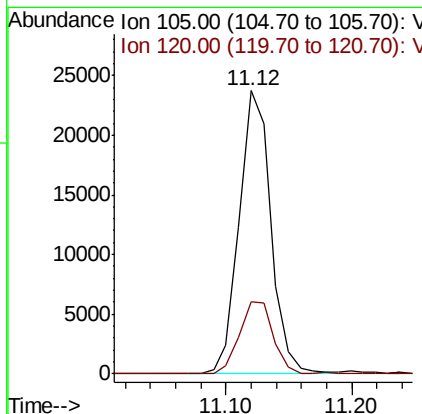
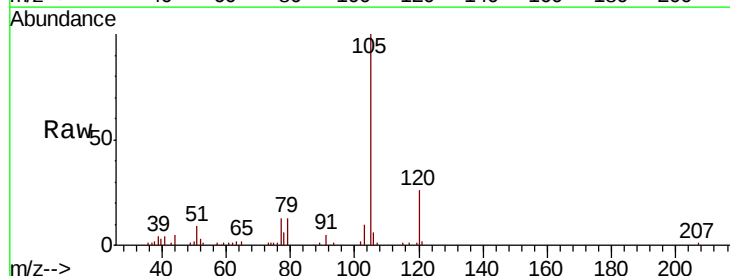
Tgt Ion:152 Resp: 239591
Ion Ratio Lower Upper
152 100
115 51.2 24.3 72.8
150 151.9 0.0 312.0

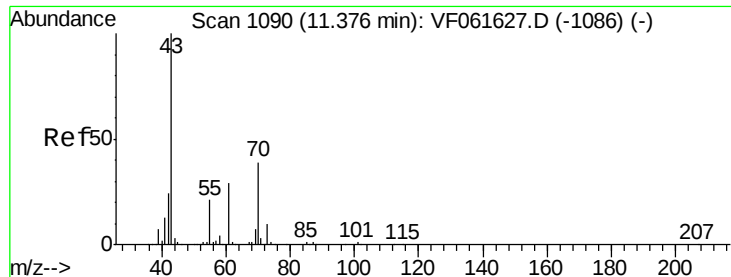


#73

Isopropylbenzene
Concen: 2.420 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion:105 Resp: 41282
Ion Ratio Lower Upper
105 100
120 25.5 13.4 40.1





#74

N-ethyl acetate

Concen: 2.335 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 43 Resp: 9562

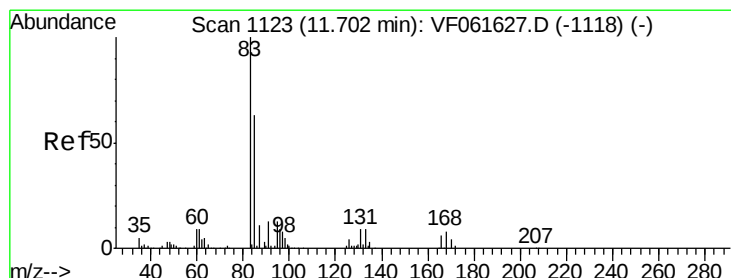
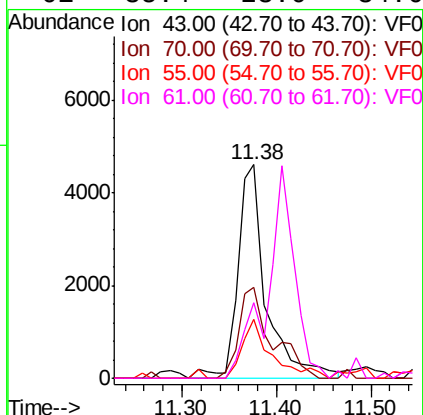
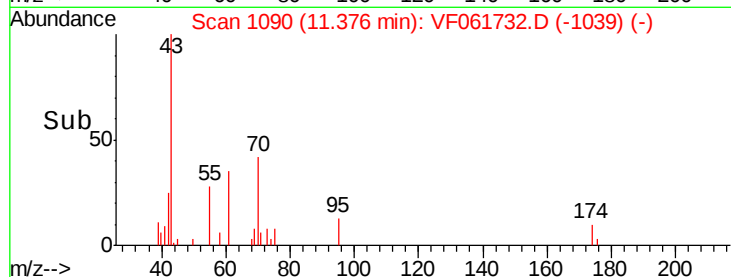
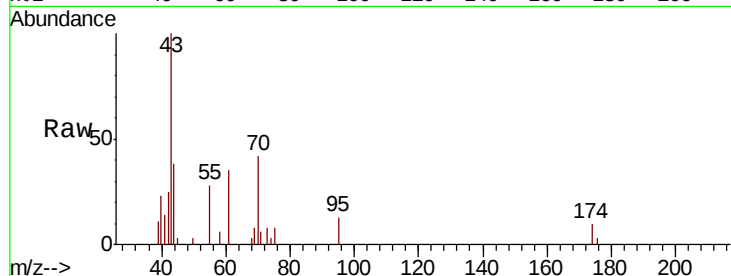
Ion Ratio Lower Upper

43 100

70 42.3 31.5 47.3

55 27.9 16.7 25.1#

61 35.4 23.0 34.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.478 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

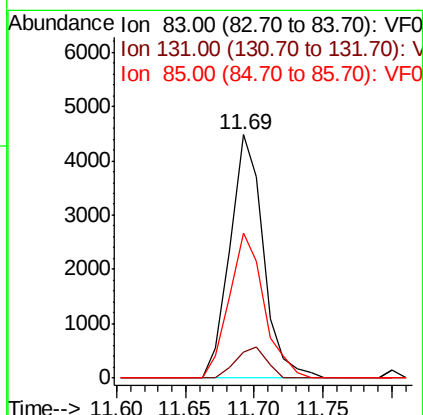
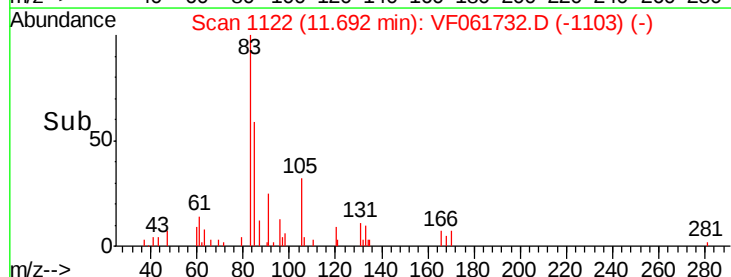
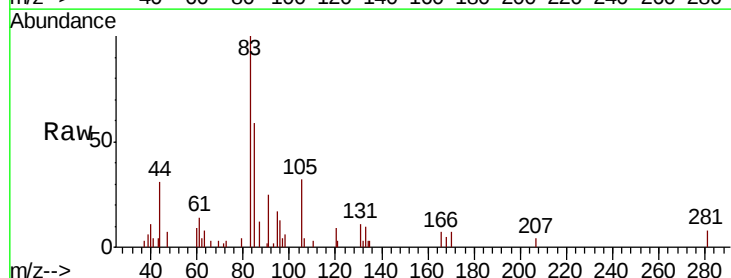
Tgt Ion: 83 Resp: 7574

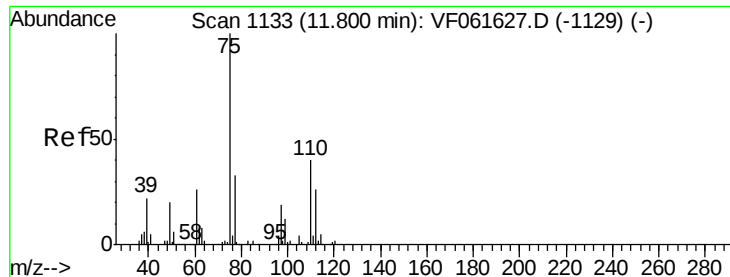
Ion Ratio Lower Upper

83 100

131 10.7 4.4 13.2

85 59.5 31.5 94.5





#76

1,2,3-Trichloropropane

Concen: 2.173 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

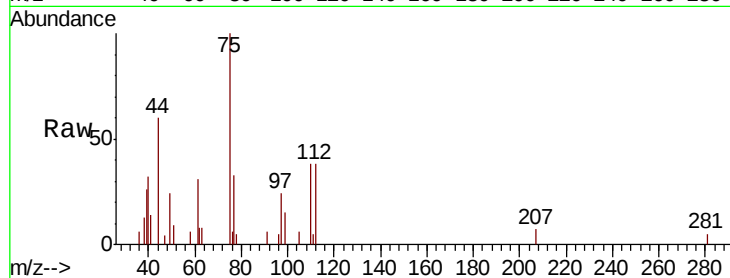
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 75 Resp: 4516

Ion Ratio Lower Upper

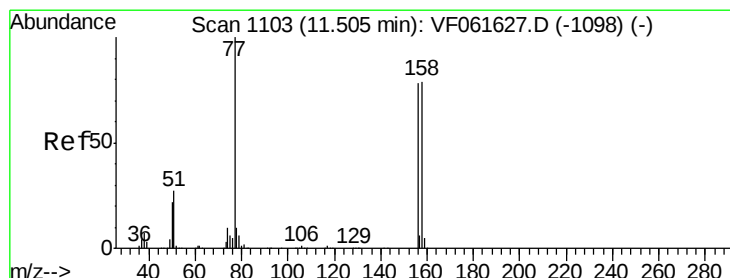
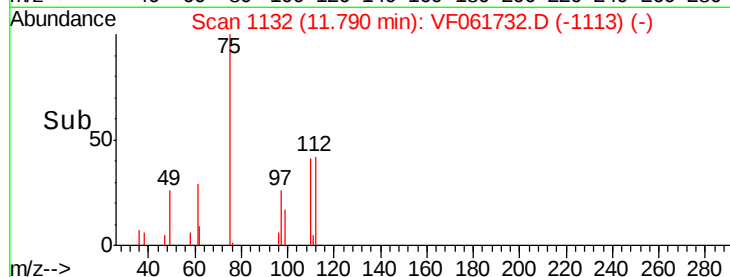
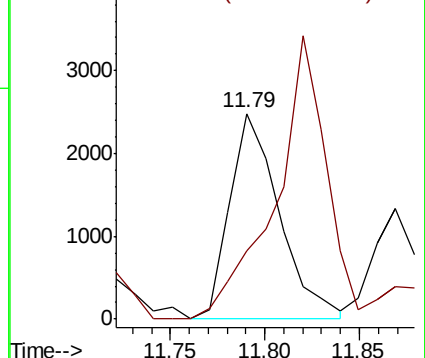
75 100

77 33.1 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#77

Bromobenzene

Concen: 2.400 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

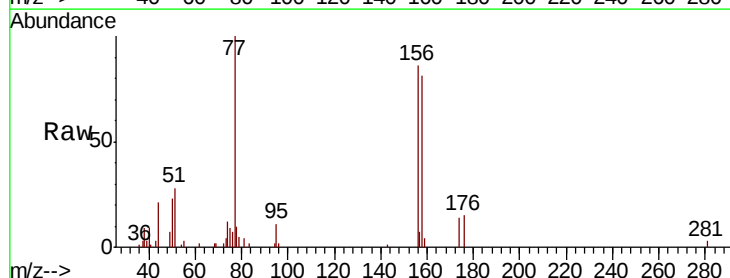
Tgt Ion: 156 Resp: 10115

Ion Ratio Lower Upper

156 100

77 116.8 64.3 192.7

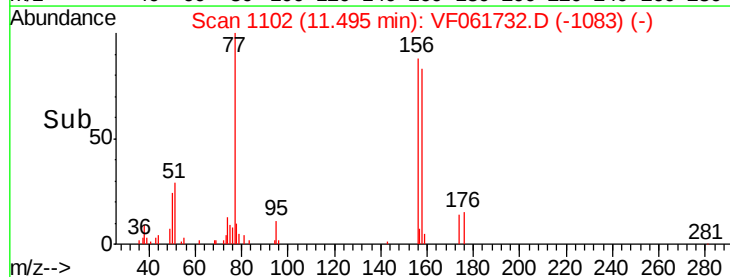
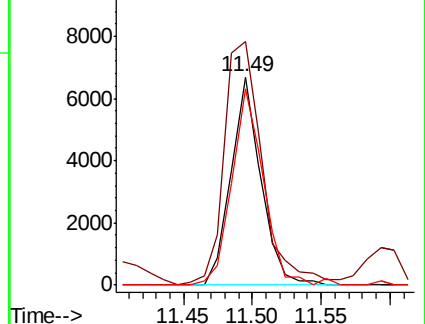
158 94.4 50.9 152.7

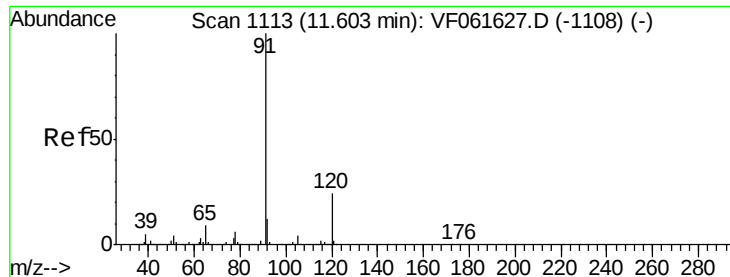


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V





#78

n-propylbenzene

Concen: 2.748 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

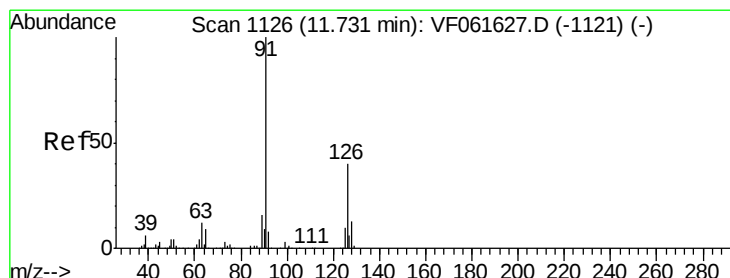
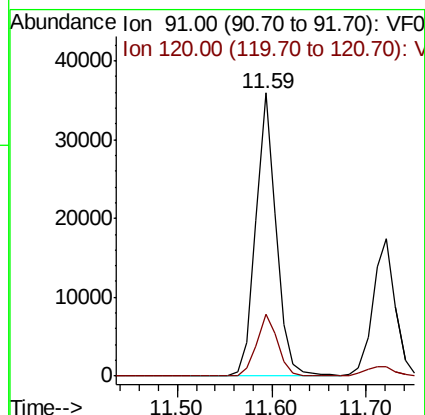
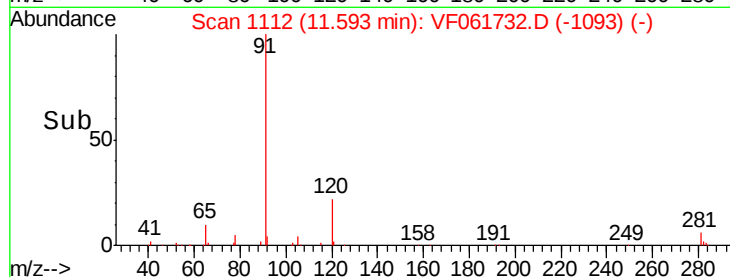
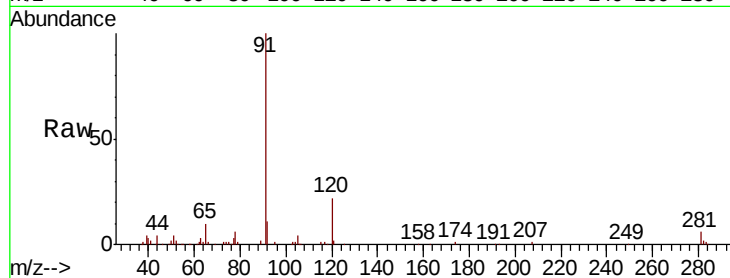
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 91 Resp: 53795

Ion Ratio Lower Upper

91 100

120 21.8 12.1 36.3



#79

2-Chlorotoluene

Concen: 2.705 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF061732.D

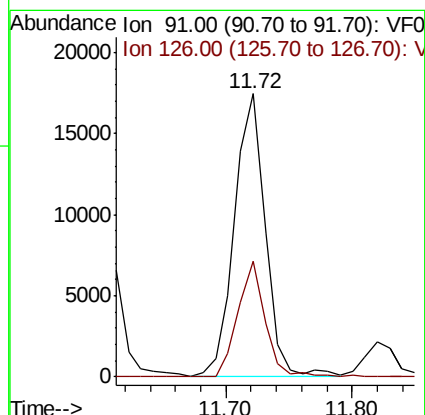
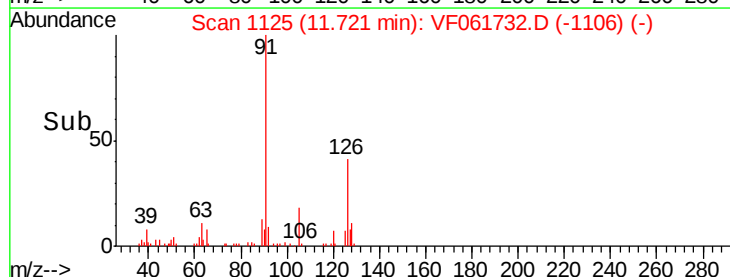
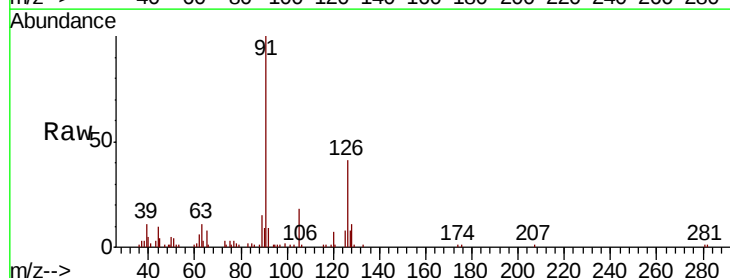
Acq: 25 Feb 2019 16:07

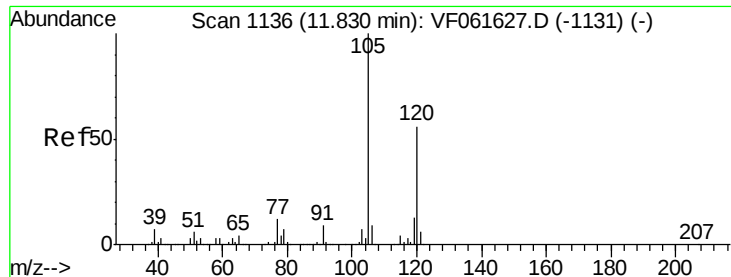
Tgt Ion: 91 Resp: 29654

Ion Ratio Lower Upper

91 100

126 41.1 19.8 59.4





#80

1,3,5-Trimethylbenzene

Concen: 2.771 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

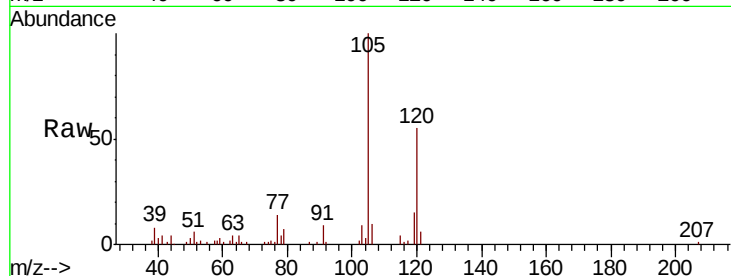
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:105 Resp: 37782

Ion Ratio Lower Upper

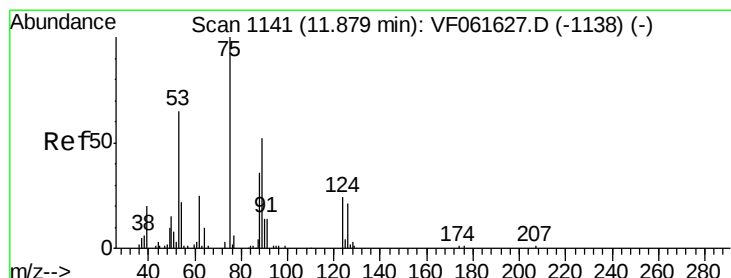
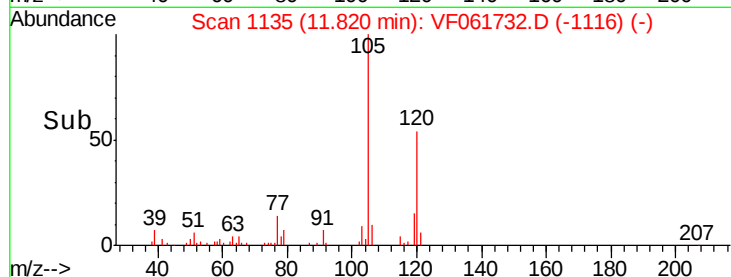
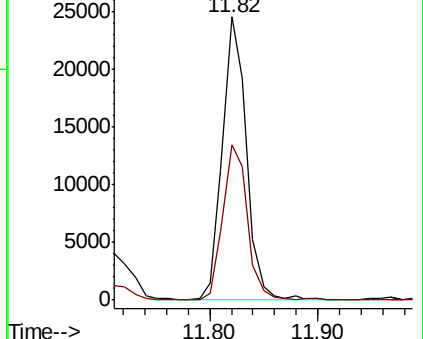
105 100

120 54.9 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 2.700 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

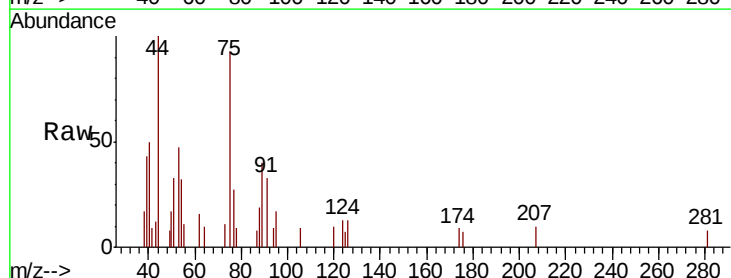
Tgt Ion: 75 Resp: 2690

Ion Ratio Lower Upper

75 100

53 50.9 53.7 80.5#

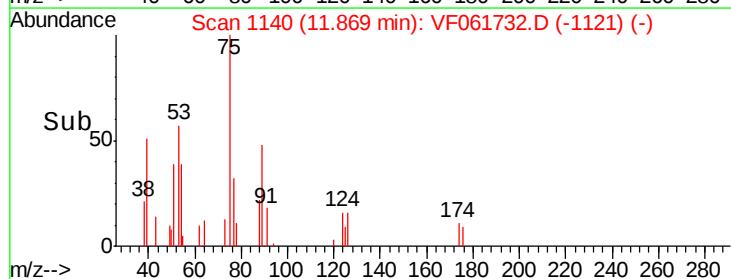
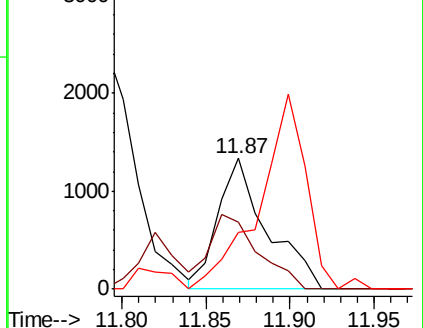
89 43.3 41.6 62.4

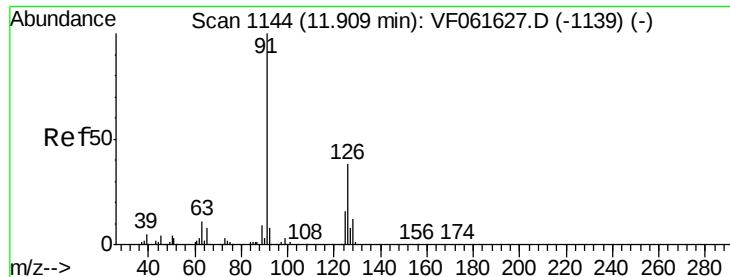


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#82

4-Chlorotoluene

Concen: 2.619 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

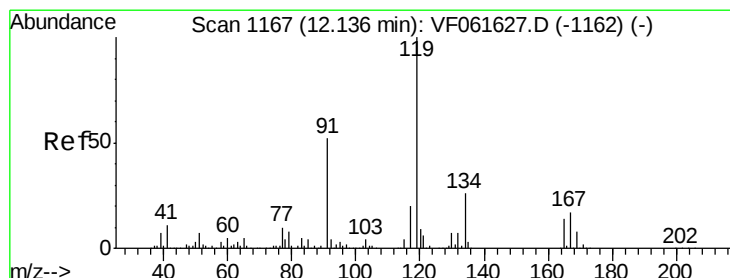
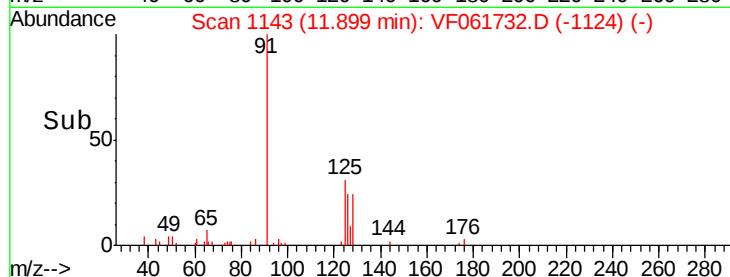
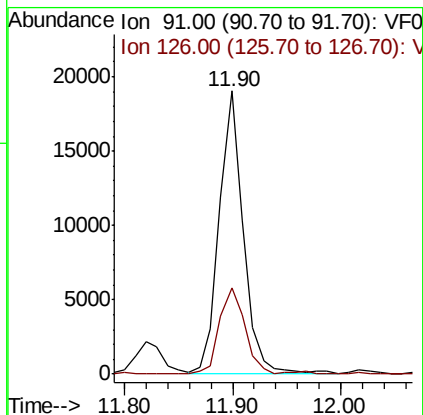
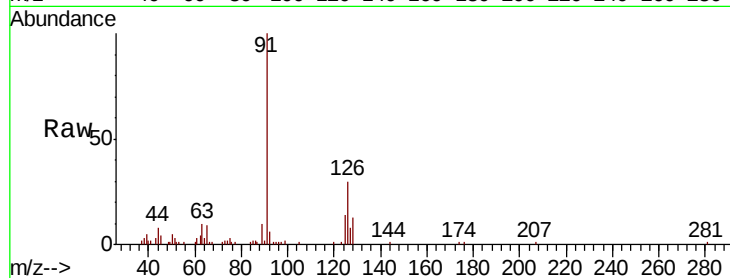
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion: 91 Resp: 29798

Ion Ratio Lower Upper

91 100

126 30.4 19.1 57.1



#83

tert-Butylbenzene

Concen: 2.532 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

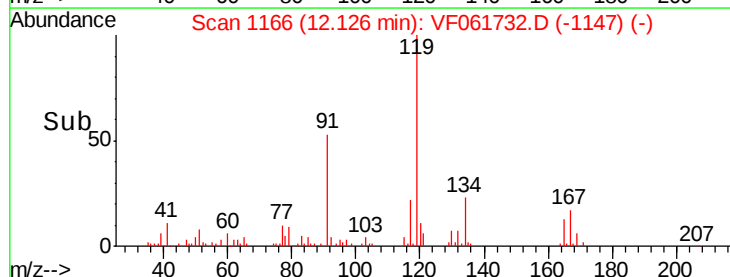
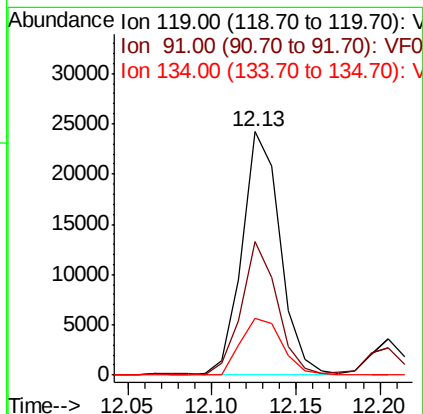
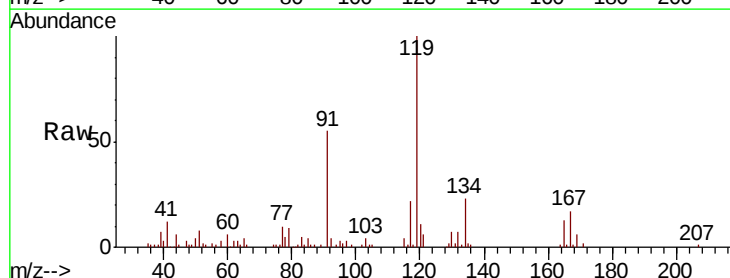
Tgt Ion: 119 Resp: 38232

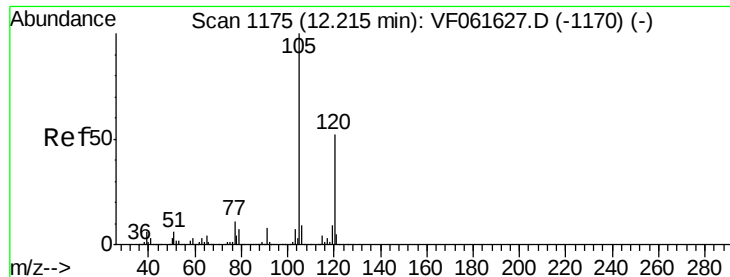
Ion Ratio Lower Upper

119 100

91 55.0 26.3 78.8

134 23.1 12.9 38.7





#84

1,2,4-Trimethylbenzene

Concen: 3.191 ug/l

RT: 12.20 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

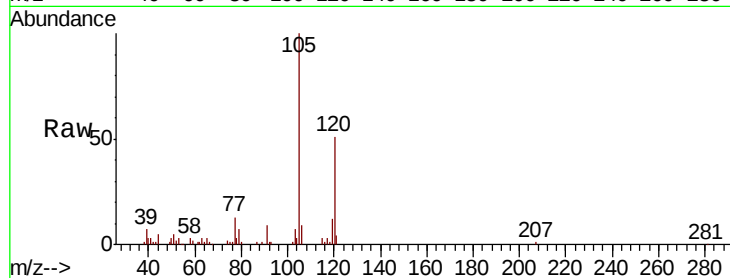
LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:105 Resp: 43220

Ion Ratio Lower Upper

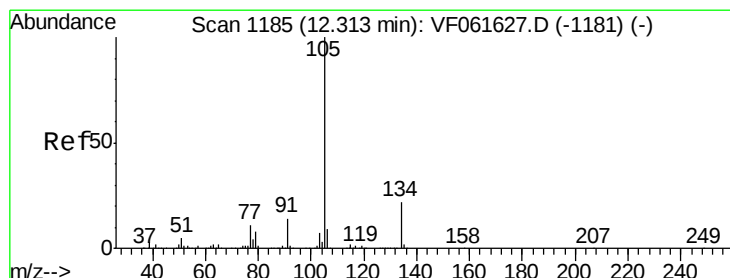
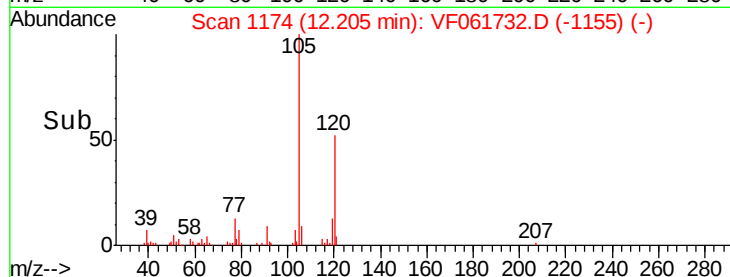
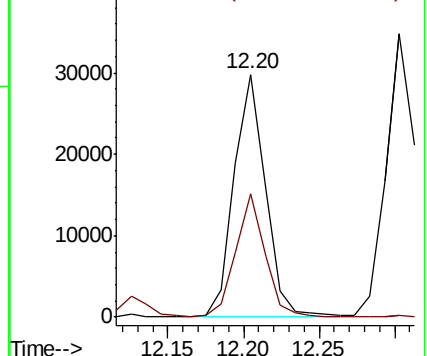
105 100

120 50.8 26.1 78.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 2.534 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061732.D

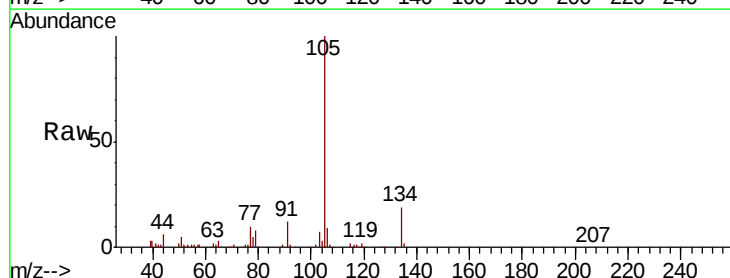
Acq: 25 Feb 2019 16:07

Tgt Ion:105 Resp: 49475

Ion Ratio Lower Upper

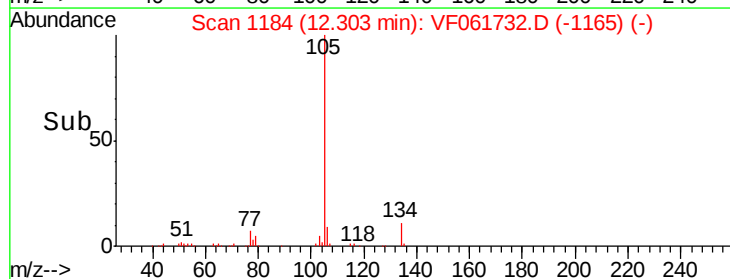
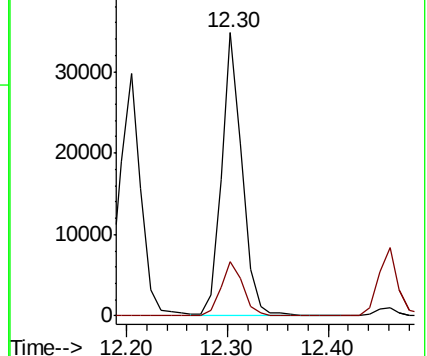
105 100

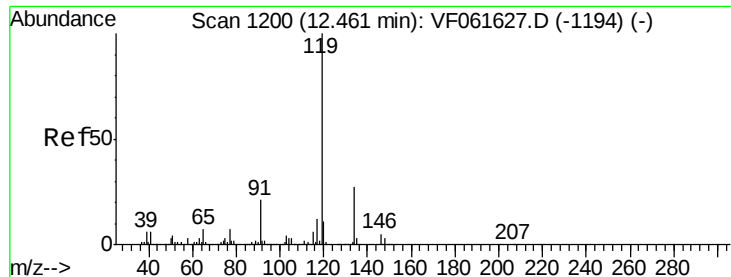
134 19.3 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86

p-Isopropyltoluene

Concen: 2.753 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

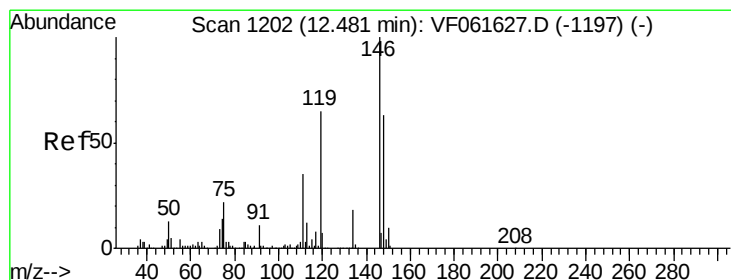
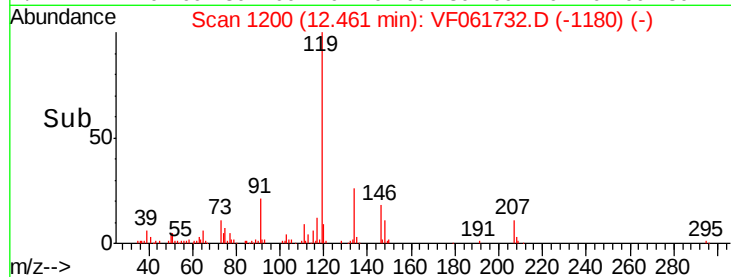
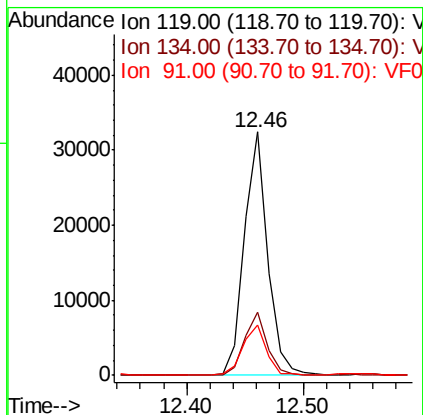
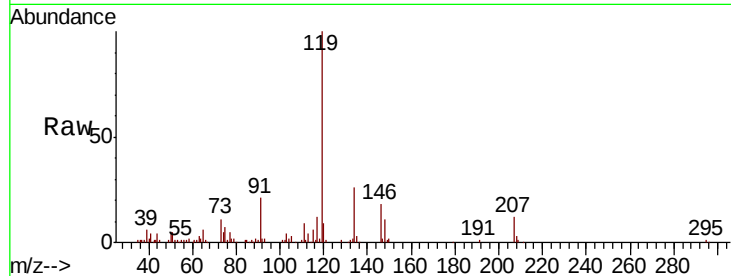
Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tgt Ion:	119	Resp:	45125
Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.7	41.1
91	20.6	10.8	32.4



#87

1,3-Dichlorobenzene

Concen: 2.835 ug/l

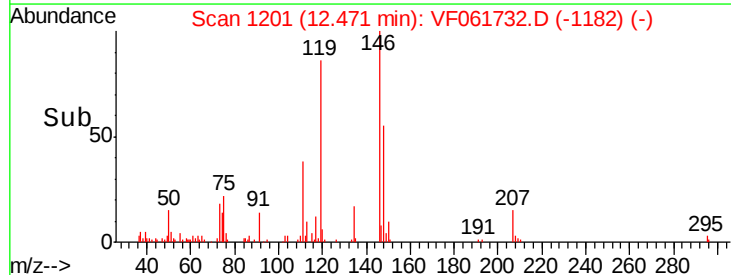
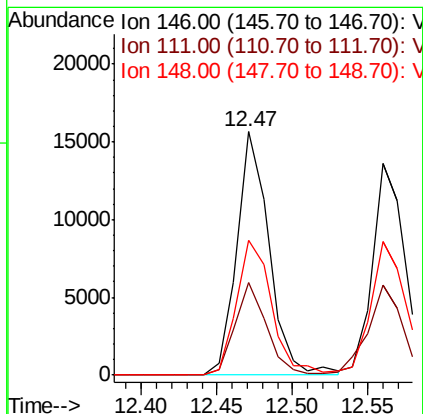
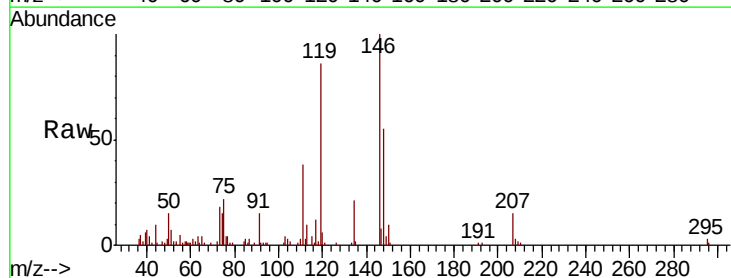
RT: 12.47 min Scan# 1201

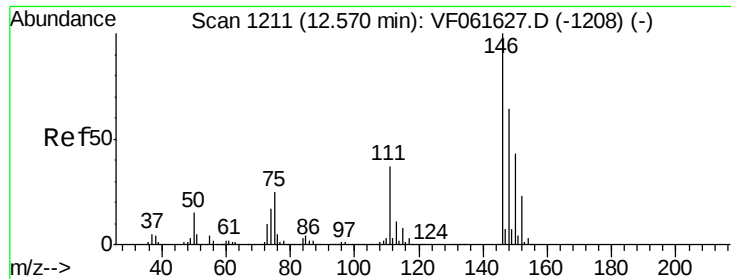
Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Tgt Ion:	146	Resp:	23290
Ion	Ratio	Lower	Upper
146	100		
111	37.8	17.5	52.6
148	55.3	31.4	94.3

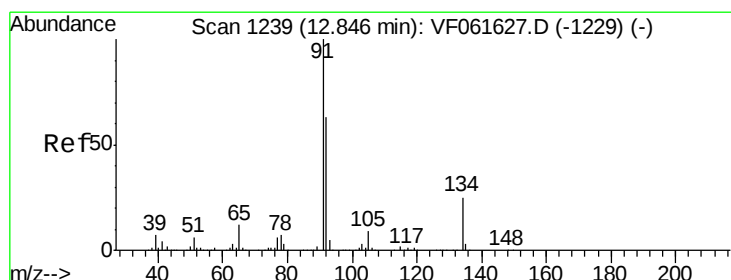
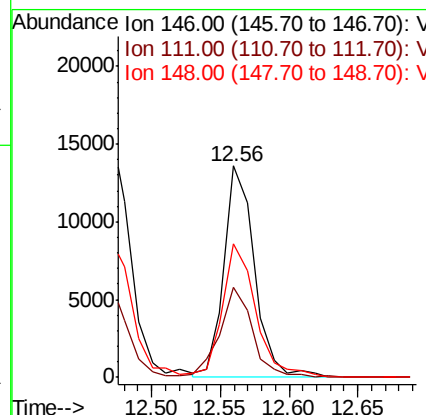
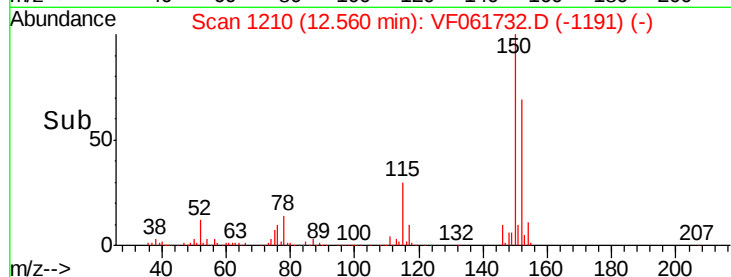
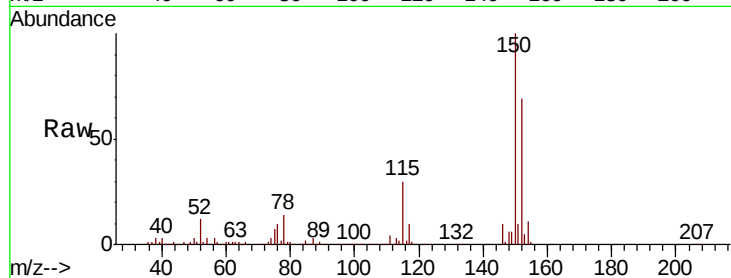




#88
 1,4-Dichlorobenzene
 Concen: 2.651 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

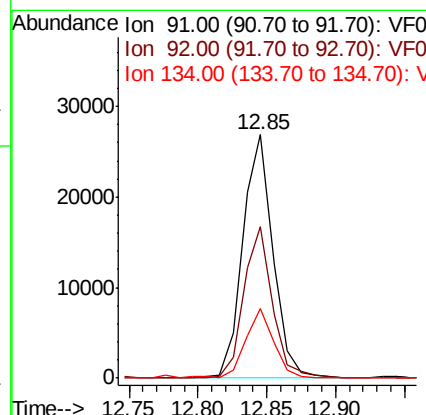
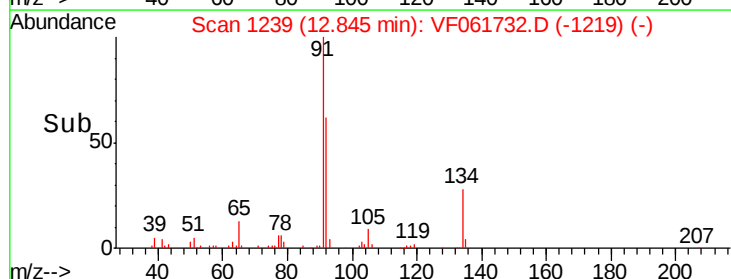
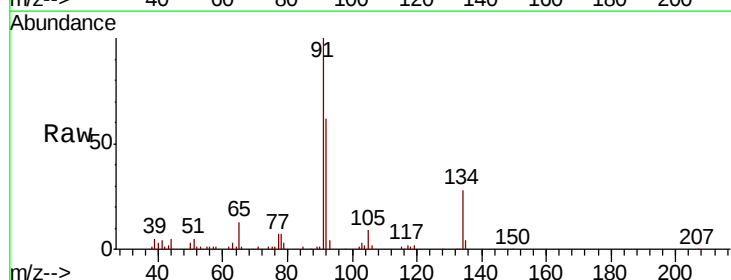
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

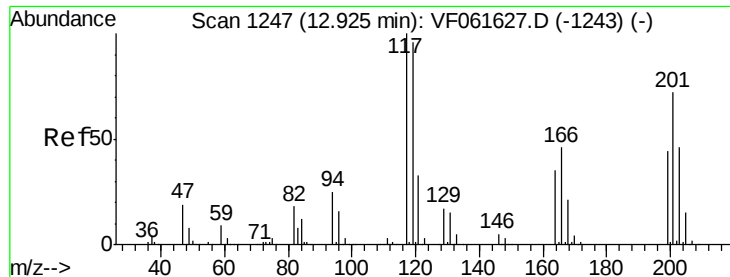
Tgt Ion: 146 Resp: 20944
 Ion Ratio Lower Upper
 146 100
 111 42.3 18.4 55.4
 148 63.2 32.2 96.6



#89
 n-Butylbenzene
 Concen: 2.656 ug/l
 RT: 12.85 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Tgt Ion: 91 Resp: 41103
 Ion Ratio Lower Upper
 91 100
 92 62.1 31.4 94.3
 134 28.3 12.3 36.9

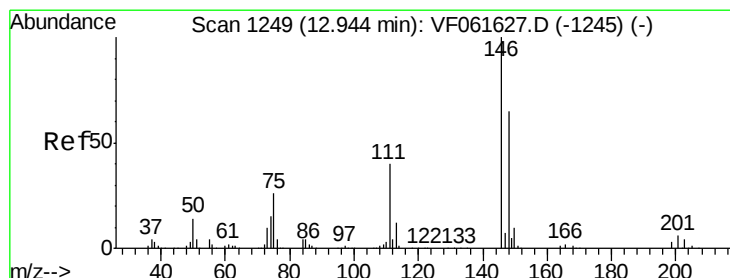
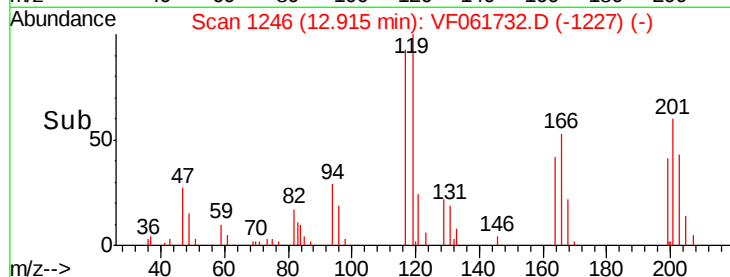
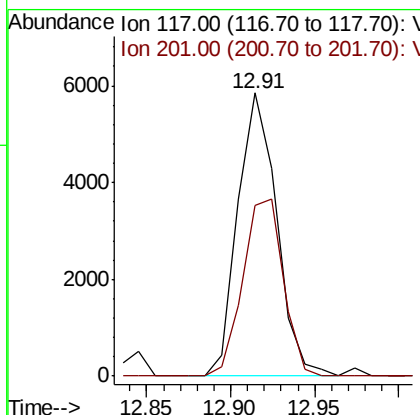
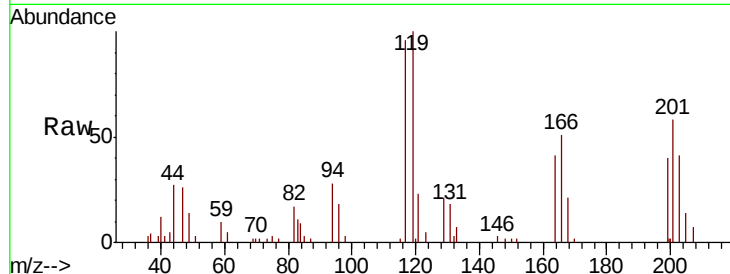




#90
Hexachloroethane
Concen: 2.456 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

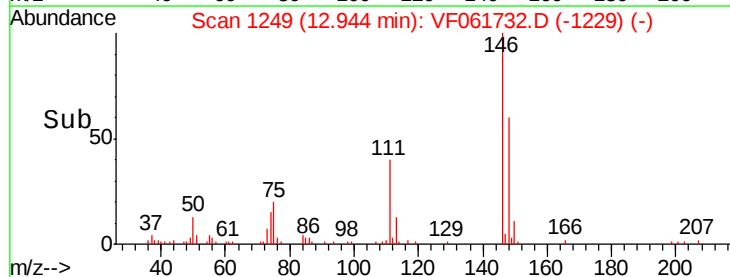
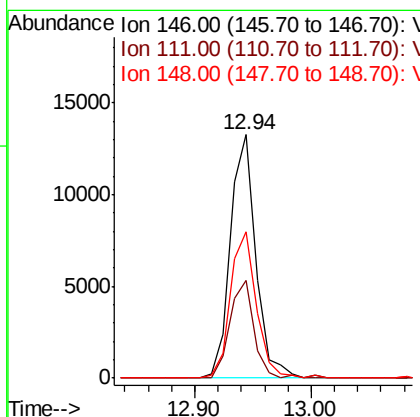
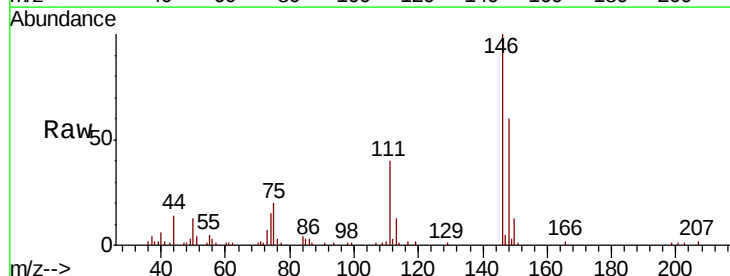
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

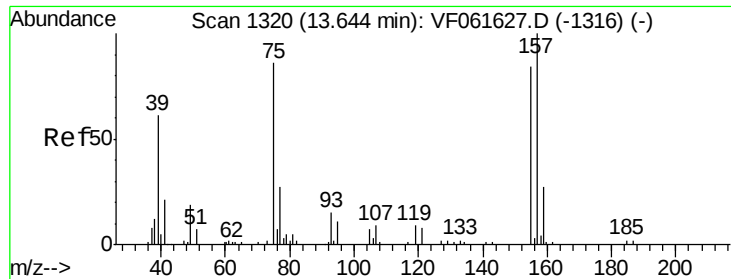
Tgt Ion:117 Resp: 9363
Ion Ratio Lower Upper
117 100
201 60.5 36.2 108.6



#91
1,2-Dichlorobenzene
Concen: 2.570 ug/l
RT: 12.94 min Scan# 1249
Delta R.T. -0.00 min
Lab File: VF061732.D
Acq: 25 Feb 2019 16:07

Tgt Ion:146 Resp: 20083
Ion Ratio Lower Upper
146 100
111 40.3 20.2 60.5
148 60.1 32.3 96.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.822 ug/l

RT: 13.64 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

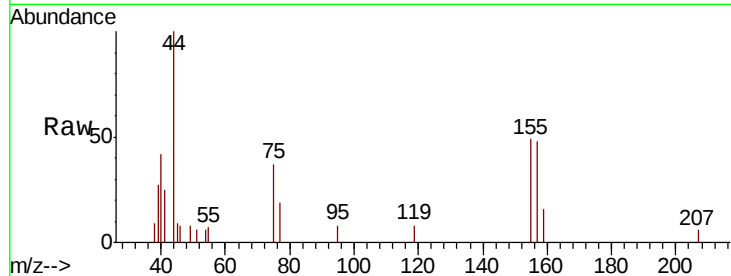
Tgt Ion: 75 Resp: 883

Ion Ratio Lower Upper

75 100

155 132.6 48.9 146.8

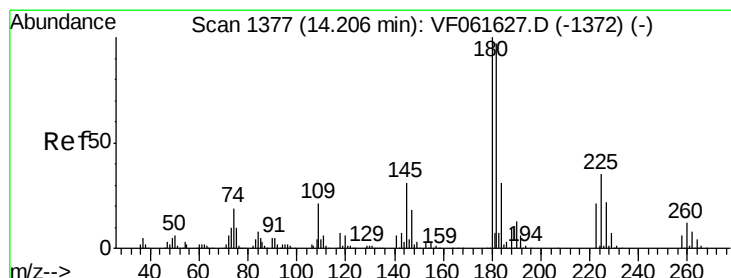
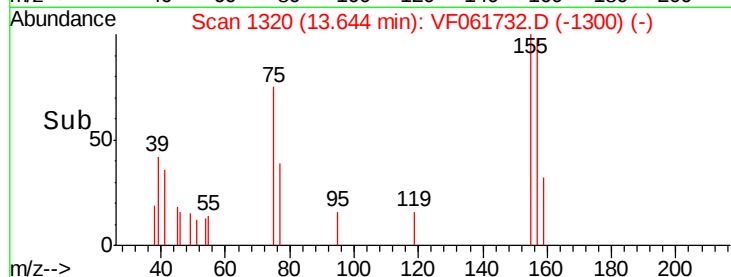
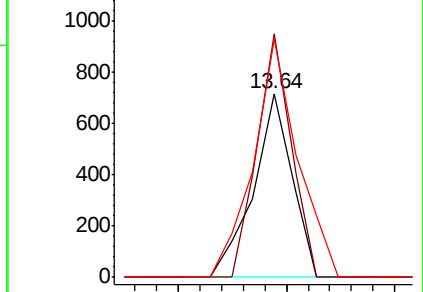
157 130.2 58.3 174.8



Abundance Ion 75.00 (74.70 to 75.70): VF061627.D (-1316) (-)

Ion 155.00 (154.70 to 155.70): VF061627.D (-1316) (-)

Ion 157.00 (156.70 to 157.70): VF061627.D (-1316) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.484 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

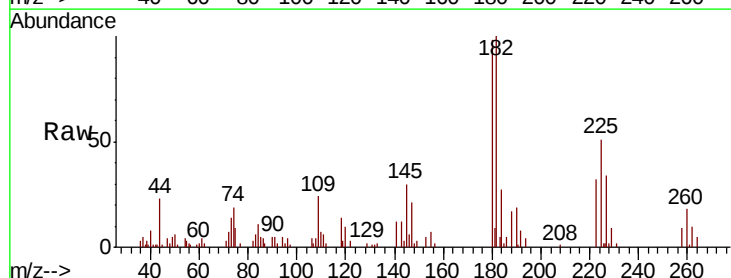
Tgt Ion: 180 Resp: 13911

Ion Ratio Lower Upper

180 100

182 101.9 48.6 145.9

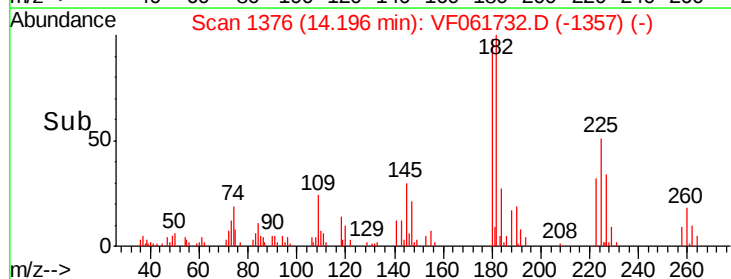
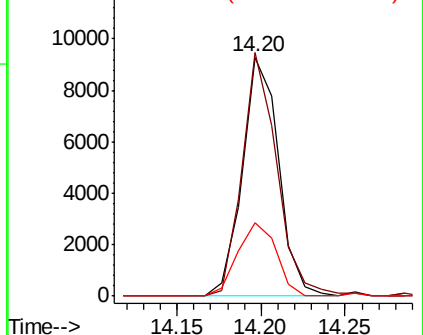
145 30.6 15.3 45.9

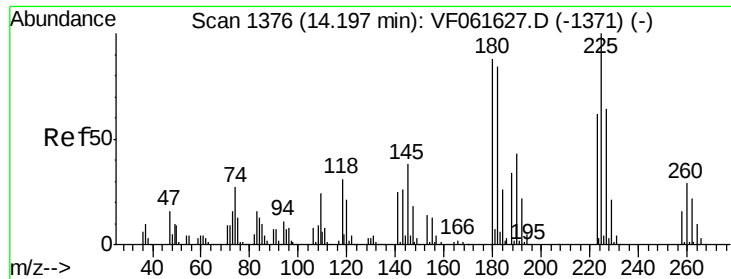


Abundance Ion 180.00 (179.70 to 180.70): VF061627.D (-1372) (-)

Ion 182.00 (181.70 to 182.70): VF061627.D (-1372) (-)

Ion 145.00 (144.70 to 145.70): VF061627.D (-1372) (-)





#94

Hexachlorobutadiene

Concen: 2.455 ug/l

RT: 14.19 min Scan# 1375

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

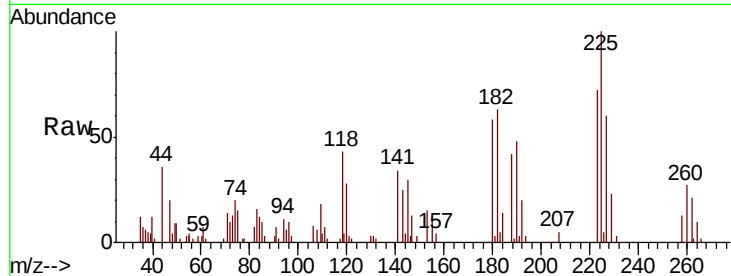
Tgt Ion:225 Resp: 8493

Ion Ratio Lower Upper

225 100

223 68.3 30.9 92.7

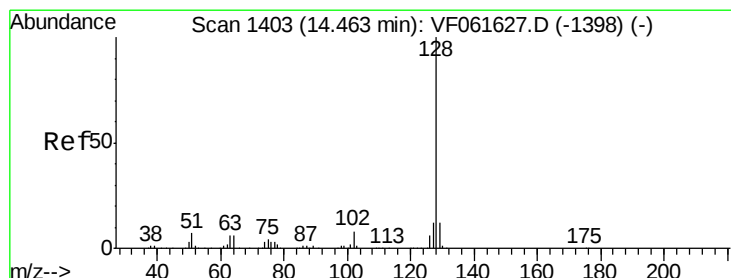
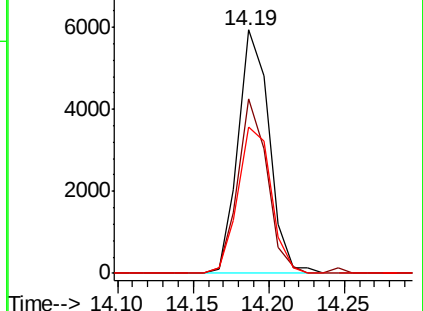
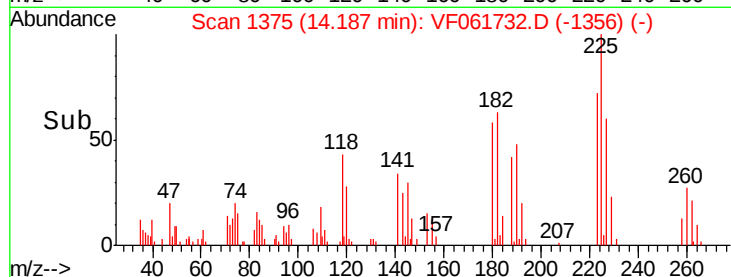
227 57.1 32.1 96.3



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#95

Naphthalene

Concen: 2.135 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061732.D

Acq: 25 Feb 2019 16:07

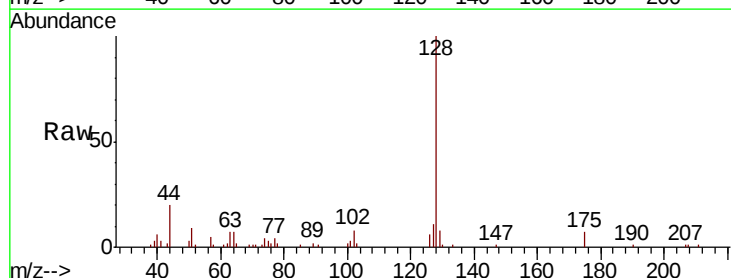
Tgt Ion:128 Resp: 20918

Ion Ratio Lower Upper

128 100

127 10.9 9.8 14.6

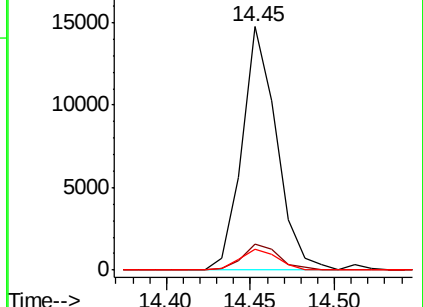
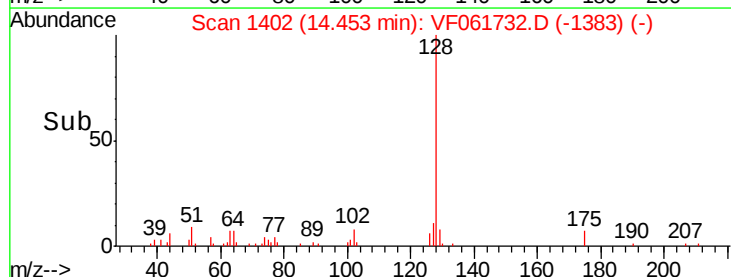
129 8.4 9.4 14.2#

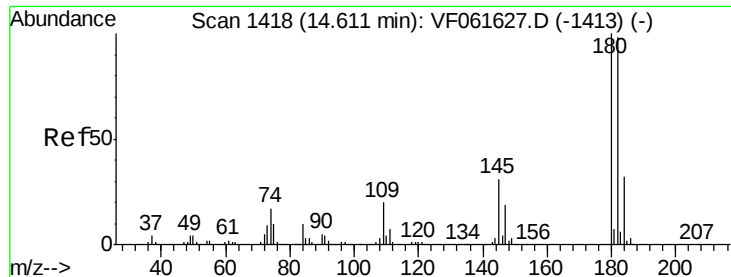


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.319 ug/l
 RT: 14.60 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VF061732.D
 Acq: 25 Feb 2019 16:07

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tgt Ion	Resp	Lower	Upper
180	11923		
182	103.9	49.0	147.2
145	29.9	15.4	46.1

