

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022619\
 Data File : VF061745.D
 Acq On : 26 Feb 2019 16:34
 Operator : VA/AP
 Sample : K1560-03MDL2.5PPB
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 2/27/2019 3:19:33 PM

Quant Time: Feb 27 05:18:05 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	4.85	168	307835	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	460112	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	404931	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	247687	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.82	65	125242	55.48	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	110.96%	
35) Dibromofluoromethane	4.09	113	185541	54.30	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	108.60%	
50) Toluene-d8	7.53	98	525630	53.51	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	107.02%	
62) 4-Bromofluorobenzene	11.40	95	219305	55.18	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	110.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	9229	2.611	ug/l	92
3) Chloromethane	1.10	50	10937	2.949	ug/l	96
4) Vinyl Chloride	1.14	62	9683	2.808	ug/l #	85
5) Bromomethane	1.34	94	7362	3.102	ug/l #	79
6) Chloroethane	1.38	64	5380	3.166	ug/l	95
7) Trichlorofluoromethane	1.47	101	11518m	2.769	ug/l	
8) Diethyl Ether	1.63	74	2734	2.609	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.83	101	8194	2.731	ug/l #	87
10) Methyl Iodide	1.90	142	14200m	2.478	ug/l	
11) Tert butyl alcohol	2.56	59	1807	13.831	ug/l #	83
12) 1,1-Dichloroethene	1.78	96	6468	2.452	ug/l	96
13) Acrolein	2.00	56	3446	20.987	ug/l	93
14) Allyl chloride	2.09	41	8369	2.585	ug/l	93
15) Acrylonitrile	2.93	53	6170	13.315	ug/l #	82
16) Acetone	2.23	43	9188	18.970	ug/l	94
17) Carbon Disulfide	1.82	76	20584m	2.483	ug/l	
18) Methyl Acetate	2.37	43	8646	7.924	ug/l #	65
19) Methyl tert-butyl Ether	2.43	73	11411	2.531	ug/l	93
20) Methylene Chloride	2.26	84	15024m	3.442	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	7933	2.766	ug/l #	84
22) Diisopropyl ether	2.79	45	21654	2.787	ug/l	95
23) Vinyl Acetate	3.17	43	38777	10.218	ug/l	99
24) 1,1-Dichloroethane	2.86	63	12580	2.675	ug/l #	95
25) 2-Butanone	4.32	43	13575	12.831	ug/l	96
26) 2,2-Dichloropropane	3.59	77	5645	2.834	ug/l	77
27) cis-1,2-Dichloroethene	3.46	96	8949	2.378	ug/l	93
28) Bromochloromethane	3.70	49	6228	2.760	ug/l	99
29) Tetrahydrofuran	4.07	42	6512	13.543	ug/l #	89
30) Chloroform	3.84	83	14376	2.688	ug/l	99
31) Cyclohexane	3.67	56	13226m	2.598	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	8499	2.426	ug/l	95
36) 1,1-Dichloropropene	4.26	75	12805	2.809	ug/l	91
37) Ethyl Acetate	4.10	43	5197	2.455	ug/l #	84
38) Carbon Tetrachloride	3.96	117	8505m	2.702	ug/l	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	13914	2.581	ug/l #	87
40) Benzene	4.61	78	31046	2.604	ug/l #	85
41) Methacrylonitrile	4.73	41	3255	3.006	ug/l #	80
42) 1,2-Dichloroethane	4.93	62	7306	2.562	ug/l	100
43) Isopropyl Acetate	6.95	43	6213m	2.479	ug/l	
44) Trichloroethene	5.48	130	10586	2.746	ug/l	99
45) 1,2-Dichloropropane	6.22	63	7653	2.656	ug/l	100
46) Dibromomethane	6.07	93	4446	2.506	ug/l #	70
47) Bromodichloromethane	6.36	83	9848	2.535	ug/l #	93
48) Methyl methacrylate	6.70	41	3911	2.593	ug/l #	87
49) 1,4-Dioxane	6.70	88	682	48.108	ug/l #	56
51) 4-Methyl-2-Pentanone	8.24	43	22669	12.660	ug/l	96
52) Toluene	7.60	92	18095	2.503	ug/l	90
53) t-1,3-Dichloropropene	8.26	75	8263	2.555	ug/l	96
54) cis-1,3-Dichloropropene	7.29	75	10472	2.431	ug/l #	89
55) 1,1,2-Trichloroethane	8.48	97	5283	2.487	ug/l #	85
56) Ethyl methacrylate	8.60	69	6168	2.608	ug/l	97
57) 1,3-Dichloropropane	8.83	76	8762	2.471	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.28	63	3861	9.461	ug/l #	54
59) 2-Hexanone	9.48	43	16422	13.084	ug/l	98
60) Dibromochloromethane	8.70	129	6705	2.268	ug/l	91
61) 1,2-Dibromoethane	8.96	107	6052	2.627	ug/l	91
64) Tetrachloroethene	8.13	164	8671	2.620	ug/l	95
65) Chlorobenzene	9.78	112	22133	2.694	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.91	131	7952	2.470	ug/l	82
67) Ethyl Benzene	9.88	91	35719	2.614	ug/l	98
68) m/p-Xylenes	10.12	106	28724	5.492	ug/l	91
69) o-Xylene	10.70	106	15220	2.727	ug/l	90
70) Styrene	10.77	104	21543	2.729	ug/l	94
71) Bromoform	10.76	173	4057	2.320	ug/l	79
73) Isopropylbenzene	11.11	105	40395	2.291	ug/l	98
74) N-amyl acetate	11.36	43	10165	2.401	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.68	83	6578	2.082	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	5406	2.517	ug/l	96
77) Bromobenzene	11.48	156	10510	2.412	ug/l	89
78) n-propylbenzene	11.58	91	50846	2.513	ug/l	93
79) 2-Chlorotoluene	11.70	91	29730	2.623	ug/l	89
80) 1,3,5-Trimethylbenzene	11.81	105	35054	2.487	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	2229m	2.165	ug/l	
82) 4-Chlorotoluene	11.88	91	31414	2.670	ug/l	91
83) tert-Butylbenzene	12.12	119	38969	2.496	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	35158	2.511	ug/l	99
85) sec-Butylbenzene	12.30	105	51336	2.543	ug/l	99
86) p-Isopropyltoluene	12.44	119	43137	2.546	ug/l	96
87) 1,3-Dichlorobenzene	12.46	146	22852	2.691	ug/l	95
88) 1,4-Dichlorobenzene	12.55	146	22281	2.728	ug/l	91
89) n-Butylbenzene	12.83	91	39723	2.483	ug/l	99
90) Hexachloroethane	12.91	117	9494	2.409	ug/l	94
91) 1,2-Dichlorobenzene	12.93	146	21207	2.625	ug/l	86
92) 1,2-Dibromo-3-Chloropropan	13.63	75	925	1.847	ug/l	60

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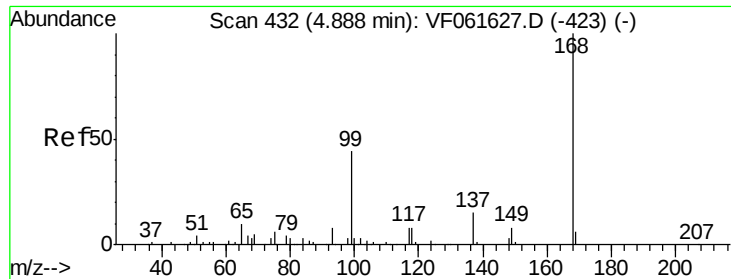
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	13877	2.397	ug/l	93
94) Hexachlorobutadiene	14.18	225	9465	2.647	ug/l	94
95) Naphthalene	14.45	128	24441	2.412	ug/l	94
96) 1,2,3-Trichlorobenzene	14.59	180	12586	2.368	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:168 Resp: 307835

Ion Ratio Lower Upper

168 100

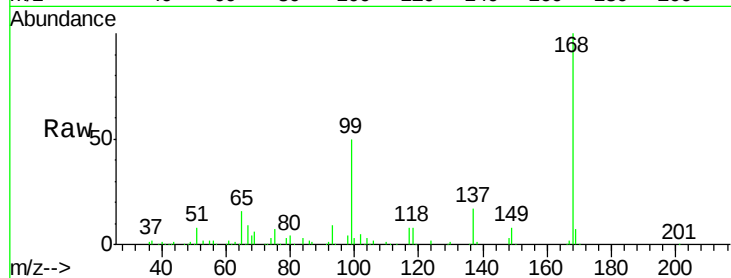
99 50.3 34.9 52.3

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

100000

80000

60000

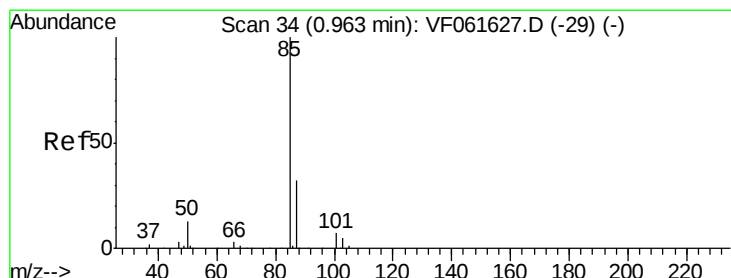
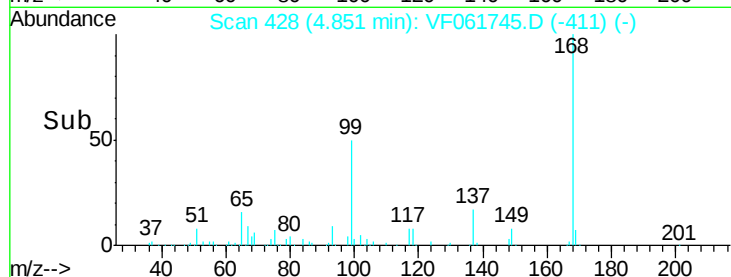
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 2.611 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061745.D

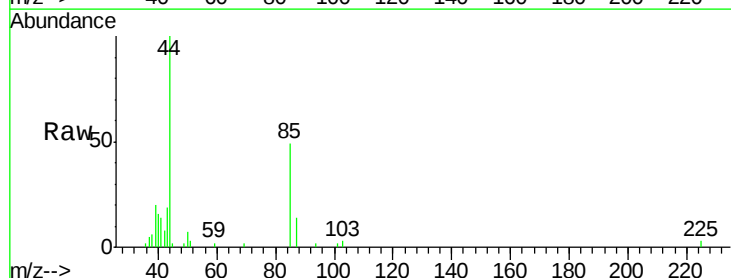
Acq: 26 Feb 2019 16:34

Tgt Ion: 85 Resp: 9229

Ion Ratio Lower Upper

85 100

87 27.8 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

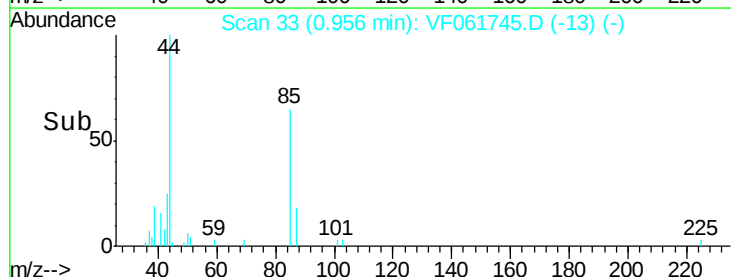
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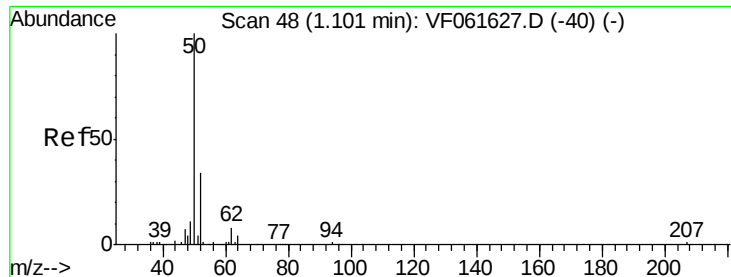
500

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 2.949 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 50 Resp: 10937

Ion Ratio Lower Upper

50 100

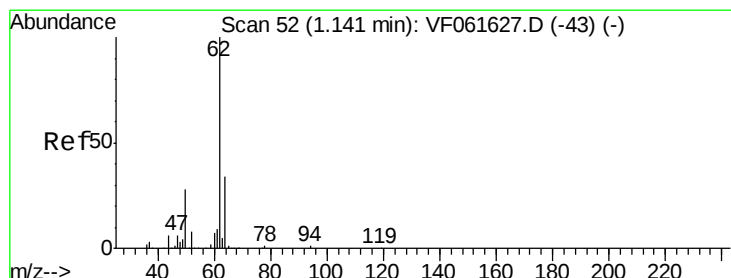
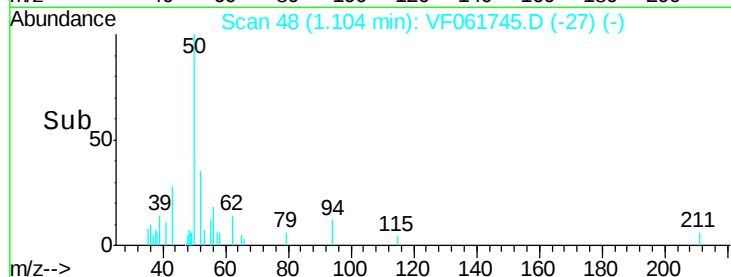
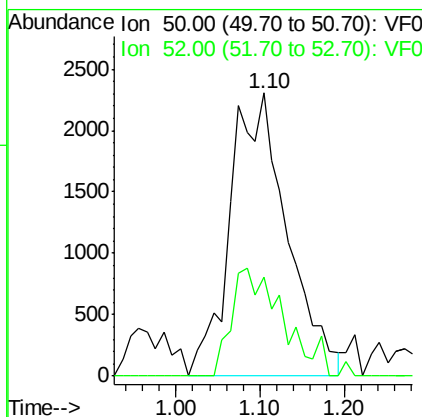
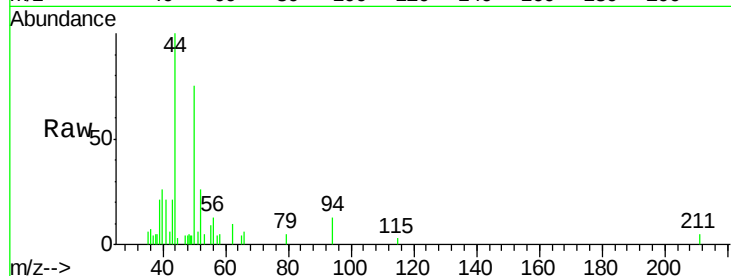
52 34.8 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.808 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061745.D

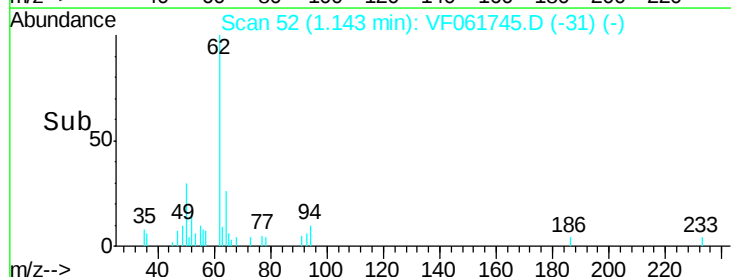
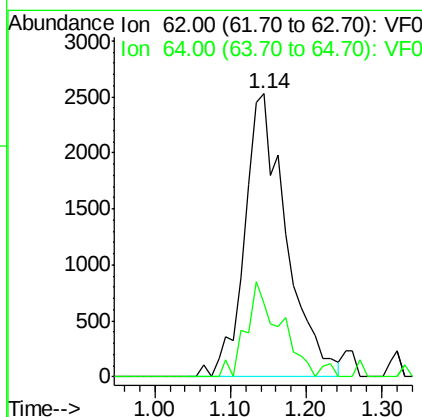
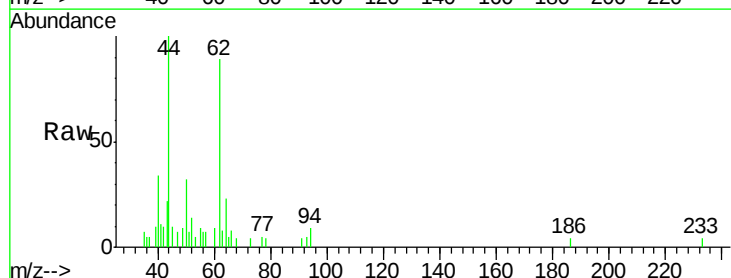
Acq: 26 Feb 2019 16:34

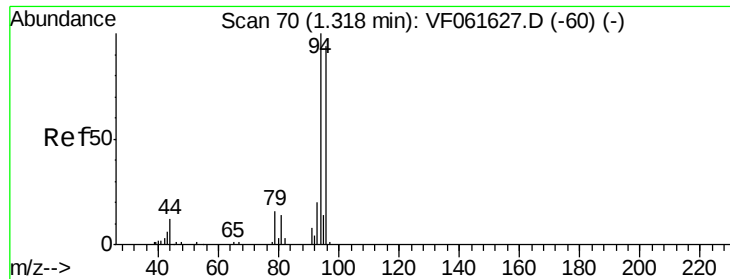
Tgt Ion: 62 Resp: 9683

Ion Ratio Lower Upper

62 100

64 25.9 27.5 41.3#





#5

Bromomethane

Concen: 3.102 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

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MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 94 Resp: 7362

Ion Ratio Lower Upper

94 100

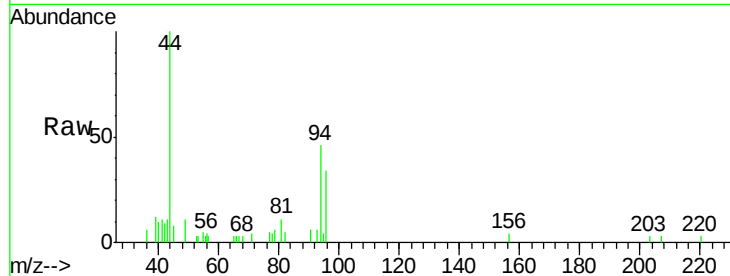
96 73.3 74.6 112.0#

Manual Integrations

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2/27/2019 3:19:33 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.34

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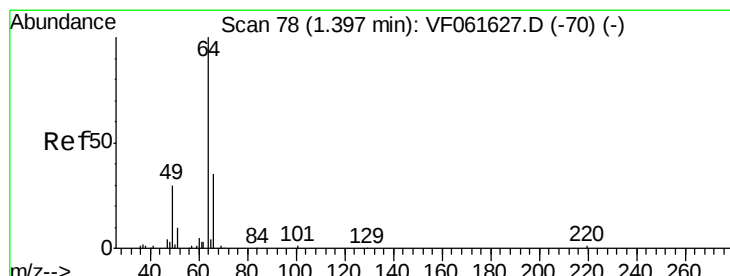
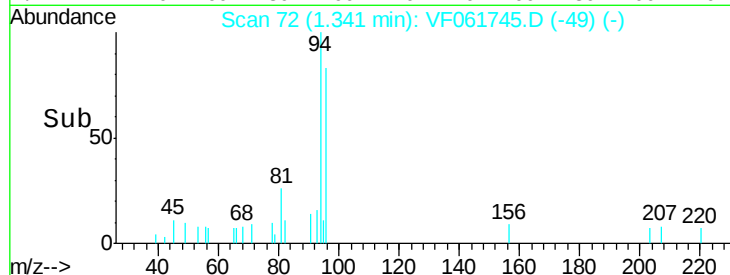
1.34

1.34

1.34

1.34

1.34



#6

Chloroethane

Concen: 3.166 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.02 min

Lab File: VF061745.D

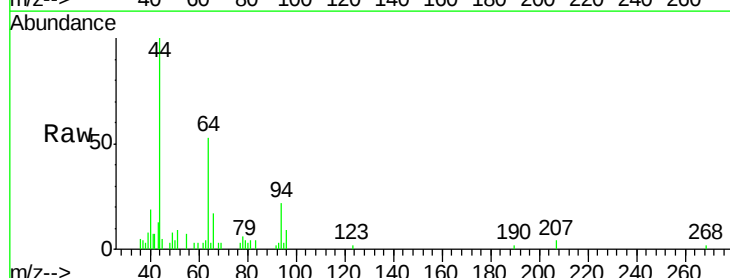
Acq: 26 Feb 2019 16:34

Tgt Ion: 64 Resp: 5380

Ion Ratio Lower Upper

64 100

66 32.1 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.38

1.38

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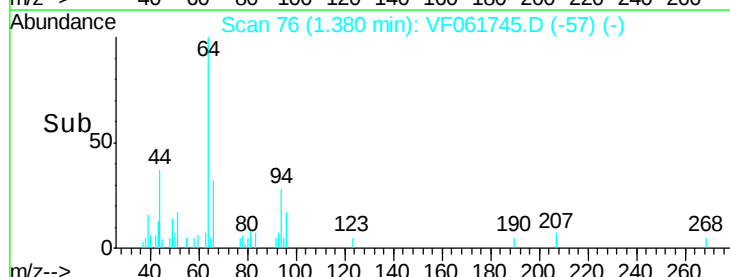
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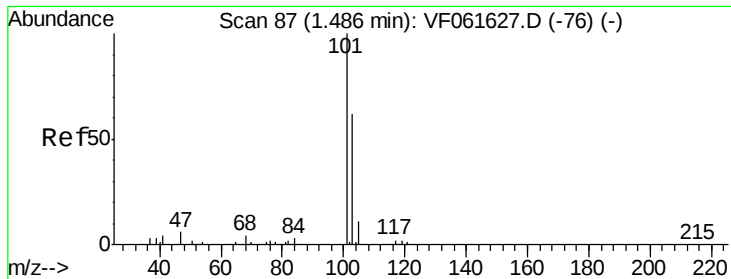
1.38

1.38

1.38

1.38





#7

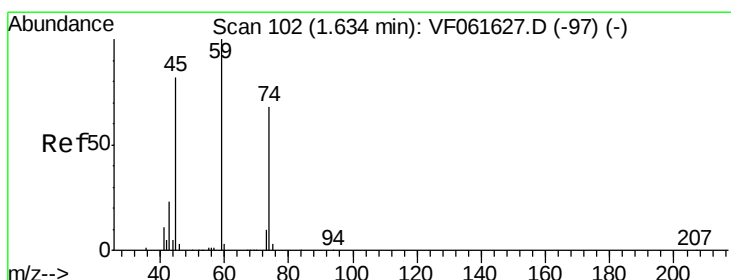
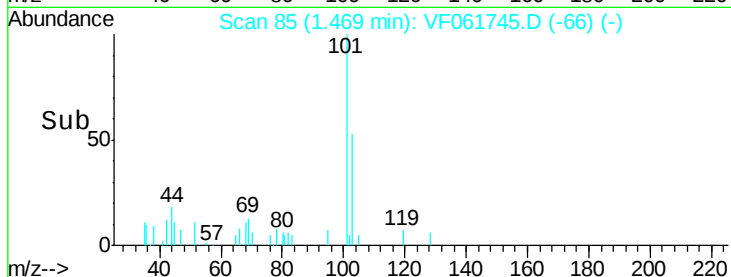
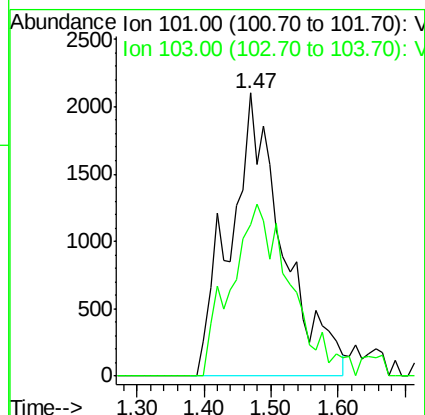
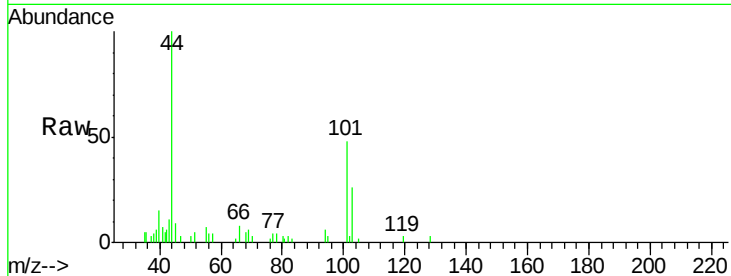
Trichlorofluoromethane
Concen: 2.769 ug/l m
RT: 1.47 min Scan# 85
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	53.5	49.3	73.9

Manual Integrations
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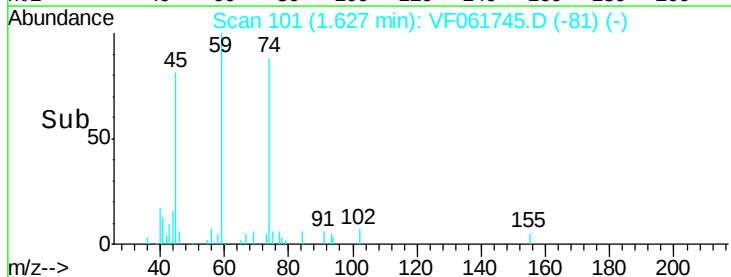
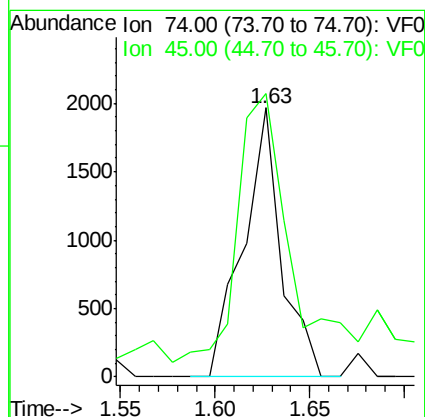
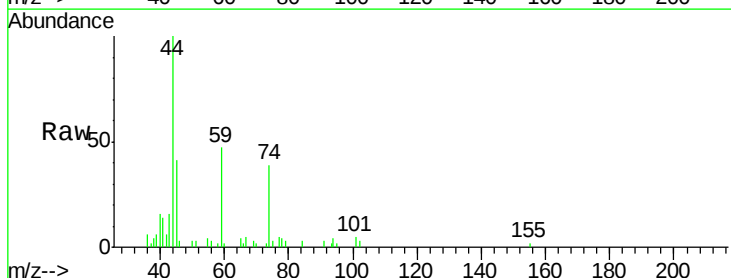
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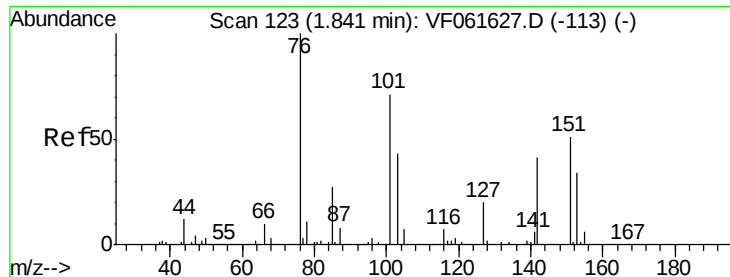


#8

Diethyl Ether
Concen: 2.609 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	105.3	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.731 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

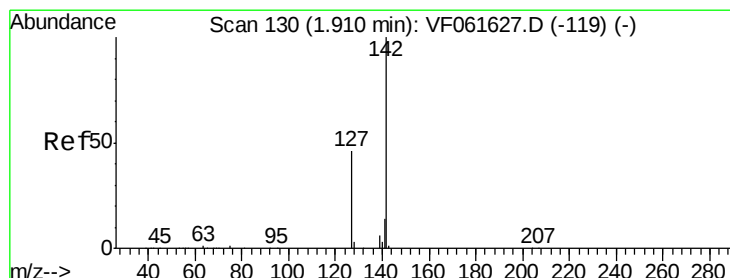
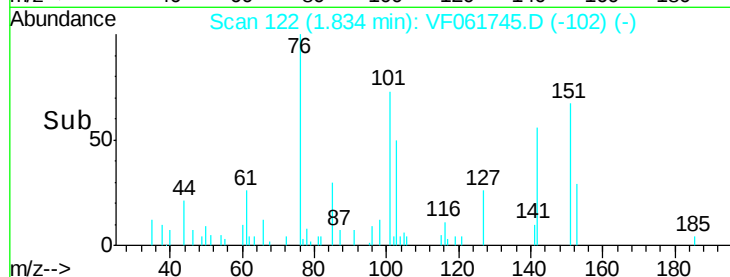
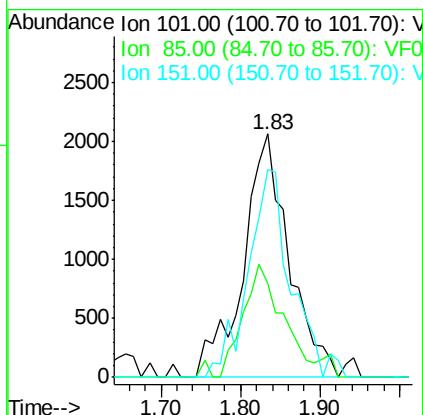
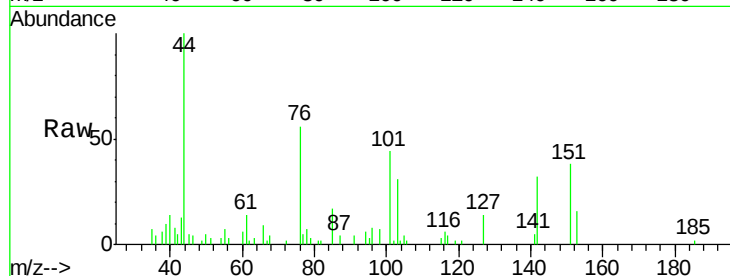
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	101	Resp:	8194
Ion Ratio	Lower	Upper	
101	100		
85	38.8	29.8	44.6
151	85.5	56.3	84.5#

Manual Integrations
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MMDadoda
2/27/2019 3:19:33 PM



#10

Methyl Iodide

Concen: 2.478 ug/l m

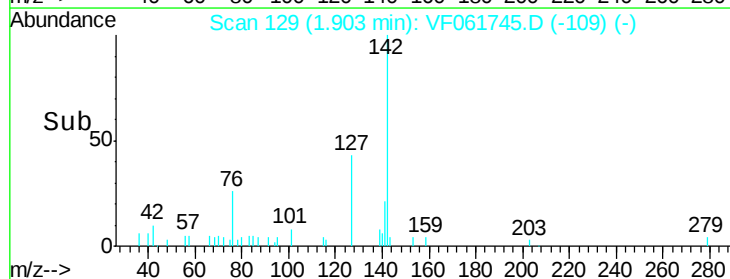
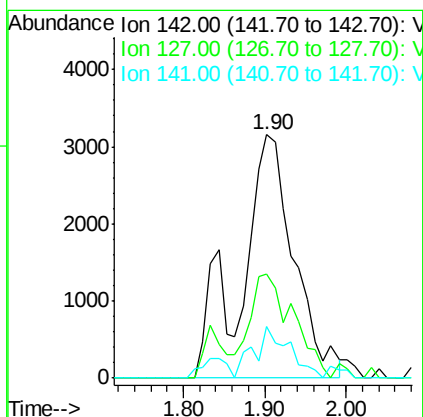
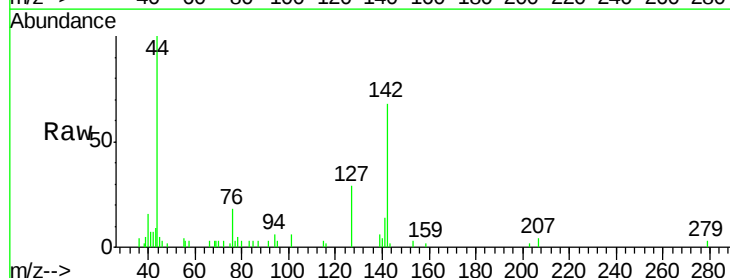
RT: 1.90 min Scan# 129

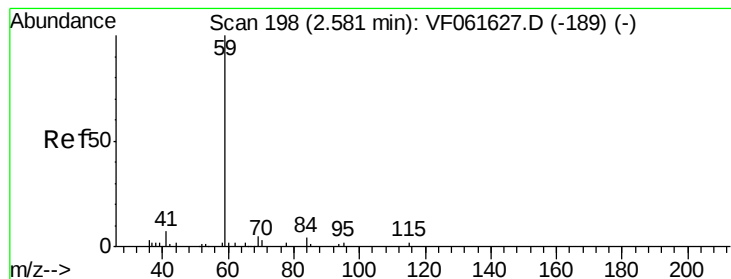
Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	142	Resp:	14200
Ion Ratio	Lower	Upper	
142	100		
127	43.0	36.6	55.0
141	20.9	11.0	16.6#





#11

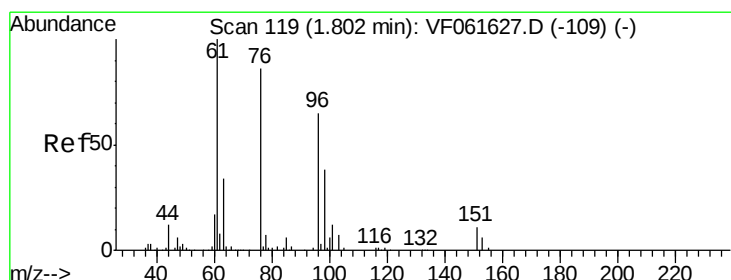
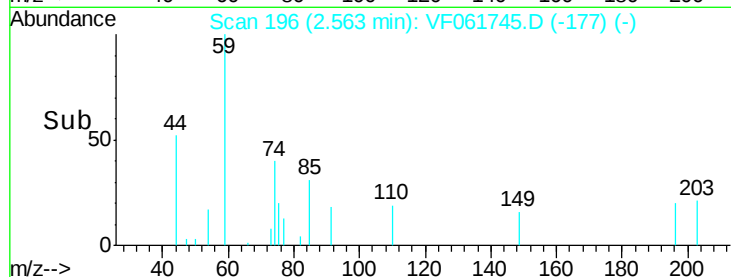
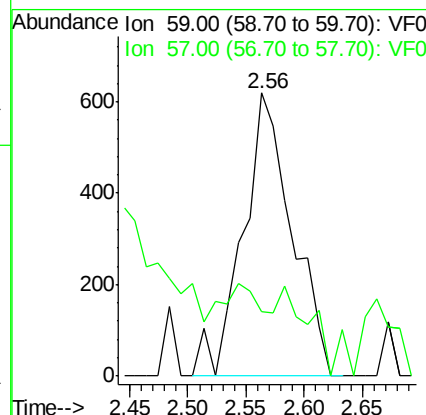
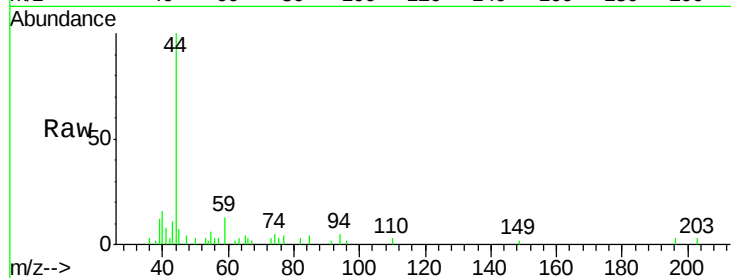
Tert butyl alcohol
 Concen: 13.831 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	59	Resp	1807
Ion Ratio	100	Lower	Upper
57	22.6	12.5	18.7#

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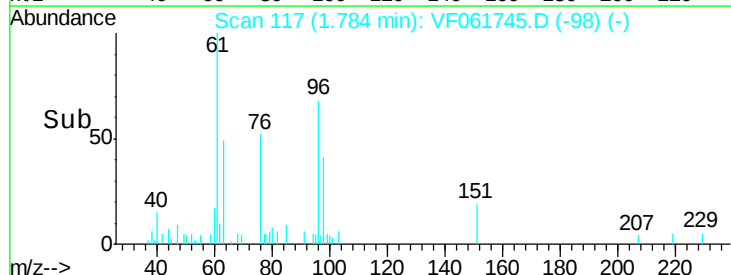
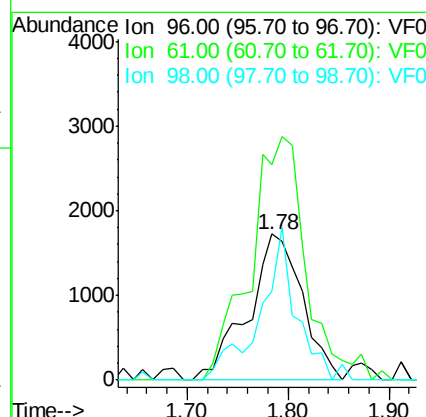
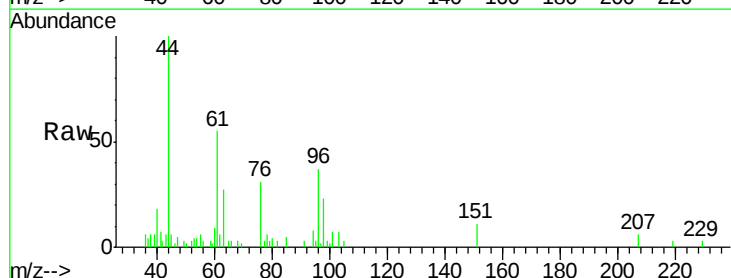
MMDadoda
 2/27/2019 3:19:33 PM

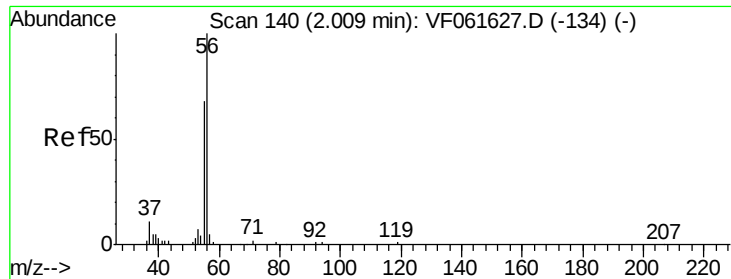


#12

1,1-Dichloroethene
 Concen: 2.452 ug/l
 RT: 1.78 min Scan# 117
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion	96	Resp	6468
Ion Ratio	100	Lower	Upper
61	147.4	122.6	184.0
98	60.8	47.2	70.8





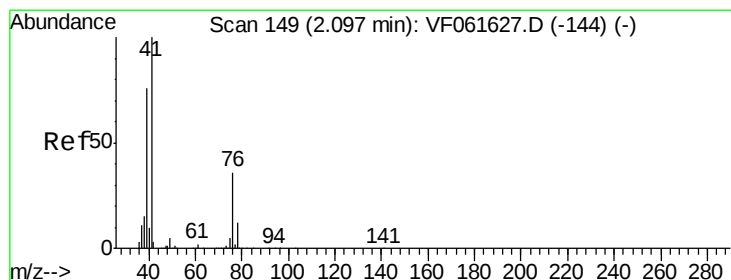
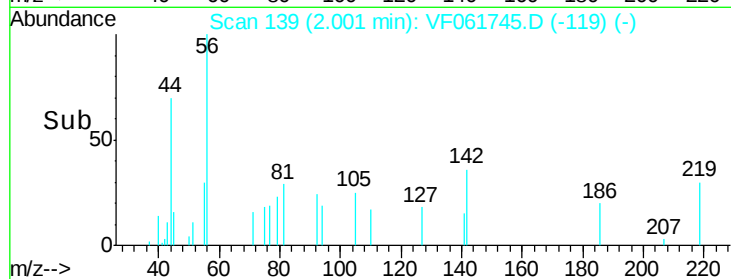
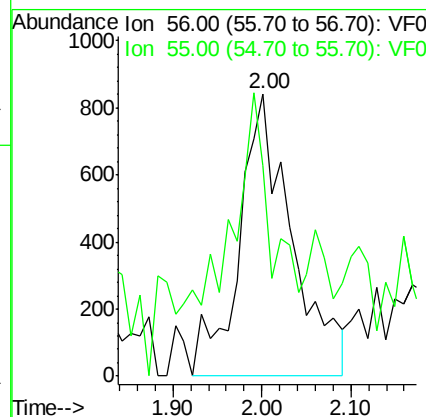
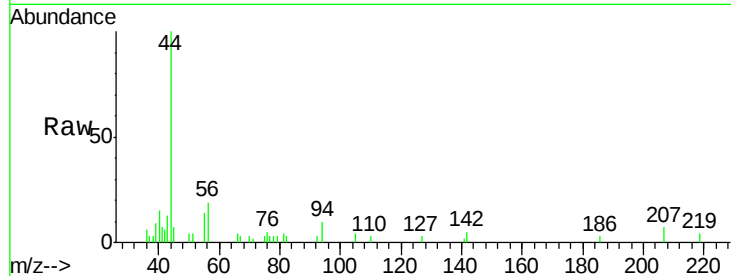
#13
Acrolein
Concen: 20.987 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.01 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	56	Resp	3446
Ion Ratio	100	Lower	Upper
55	74.6	55.0	82.6

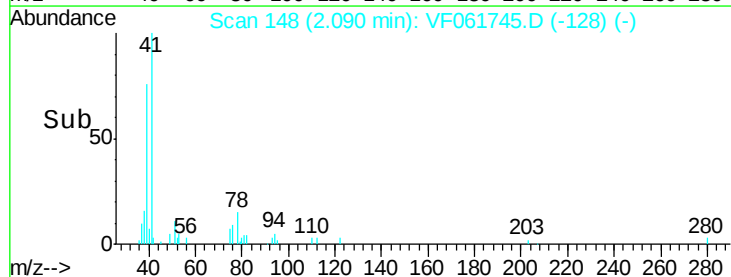
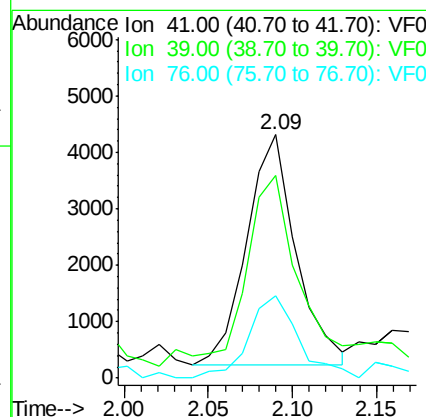
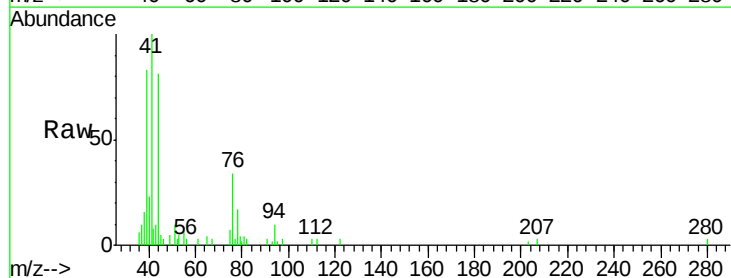
Manual Integrations
APPROVED

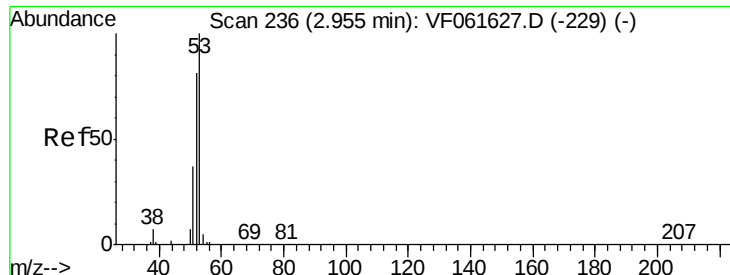
MMDadoda
2/27/2019 3:19:33 PM



#14
Allyl chloride
Concen: 2.585 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	41	Resp	8369
Ion Ratio	100	Lower	Upper
39	83.2	61.6	92.4
76	34.0	30.3	45.5





#15

Acrylonitrile

Concen: 13.315 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

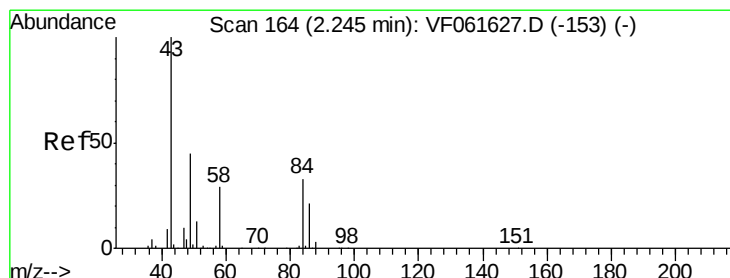
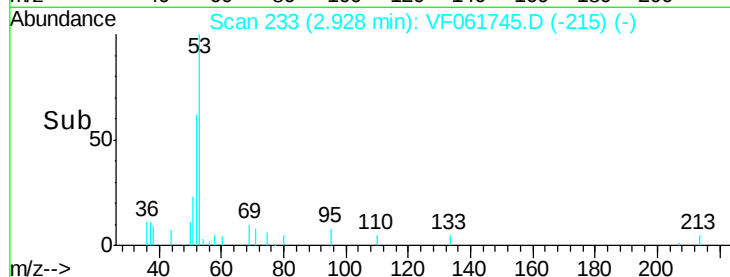
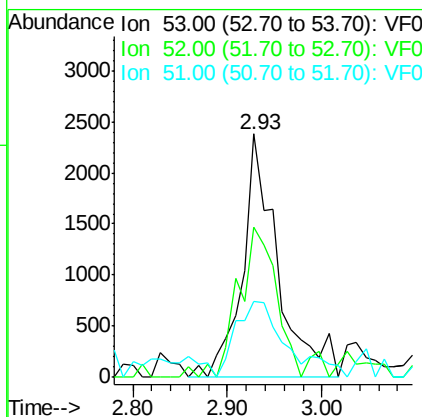
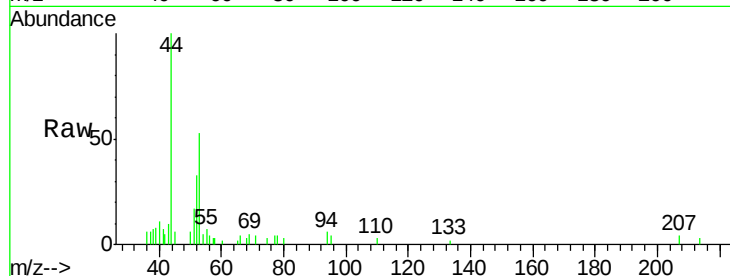
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	53	Resp:	6170
Ion	Ratio	Lower	Upper
53	100		
52	61.7	64.6	97.0#
51	31.3	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 18.970 ug/l

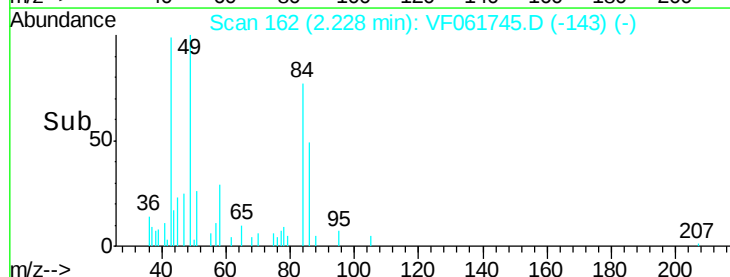
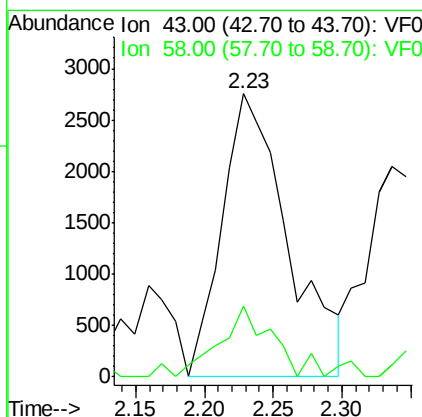
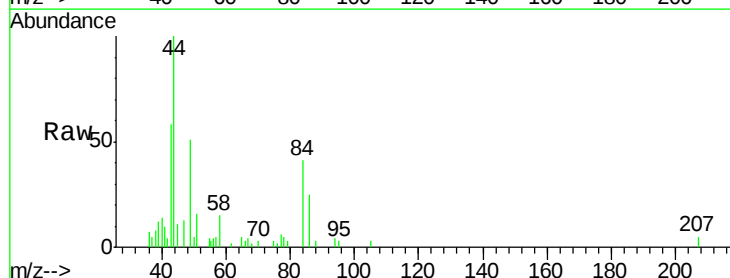
RT: 2.23 min Scan# 162

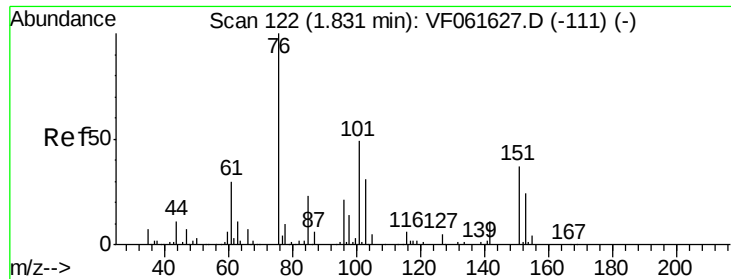
Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	43	Resp:	9188
Ion	Ratio	Lower	Upper
43	100		
58	25.2	22.9	34.3





#17

Carbon Disulfide

Concen: 2.483 ug/l m

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 20584

Ion Ratio Lower Upper

76 100

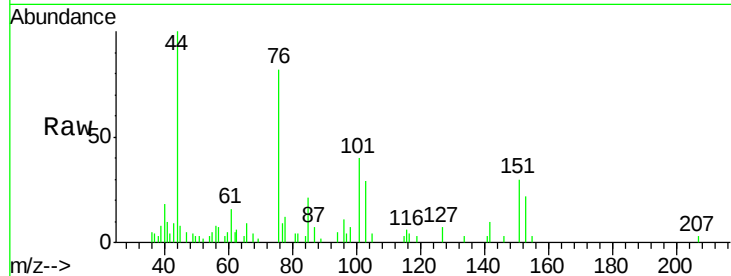
78 14.5 7.9 11.9#

Manual Integrations

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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

4000

3000

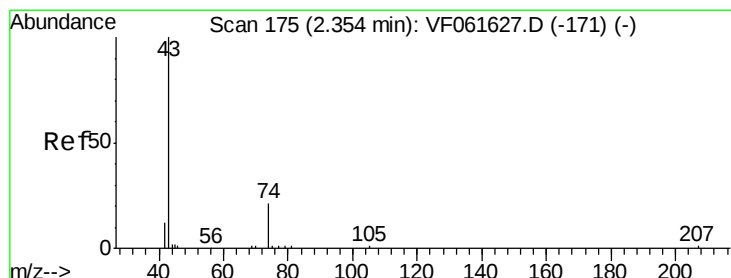
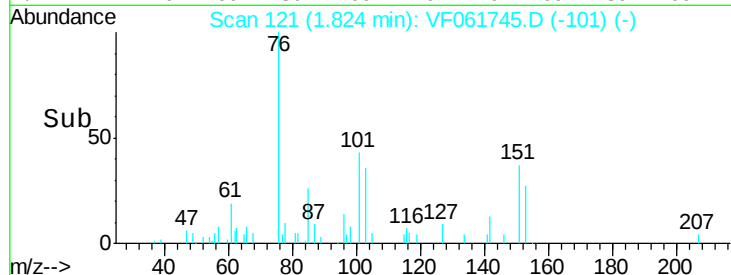
2000

1000

0

1.70 1.80 1.90 2.00

Time-->



#18

Methyl Acetate

Concen: 7.924 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF061745.D

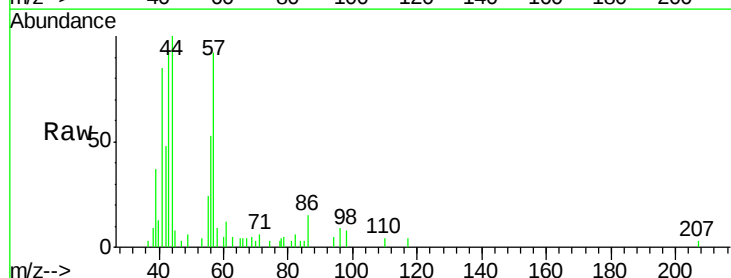
Acq: 26 Feb 2019 16:34

Tgt Ion: 43 Resp: 8646

Ion Ratio Lower Upper

43 100

74 2.9 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

4000

3000

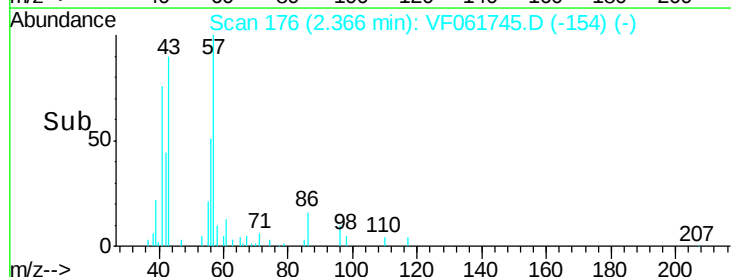
2000

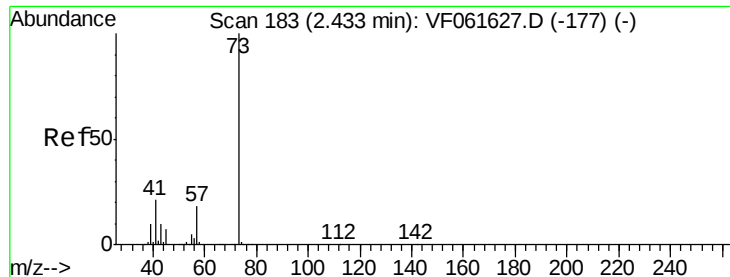
1000

0

2.25 2.30 2.35 2.40

Time-->





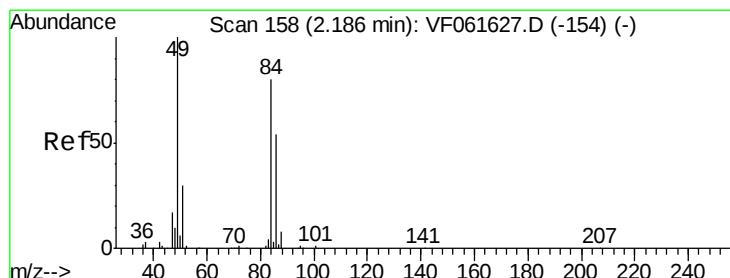
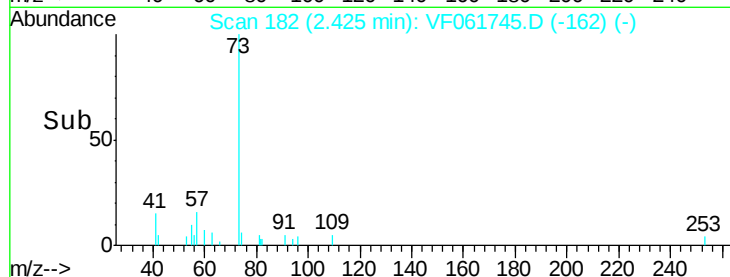
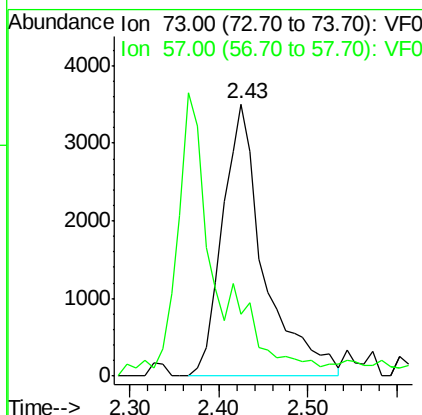
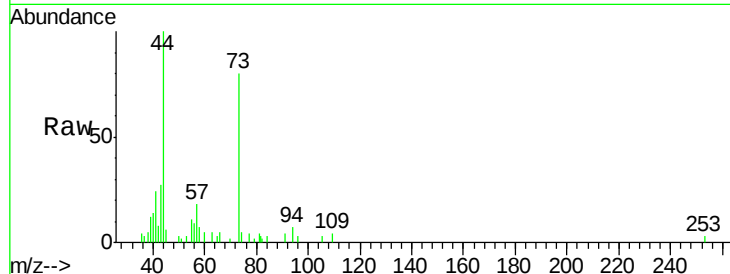
#19
Methvl tert-butvl Ether
Concen: 2.531 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 73 Resp: 11411
Ion Ratio Lower Upper
73 100
57 23.0 15.8 23.8

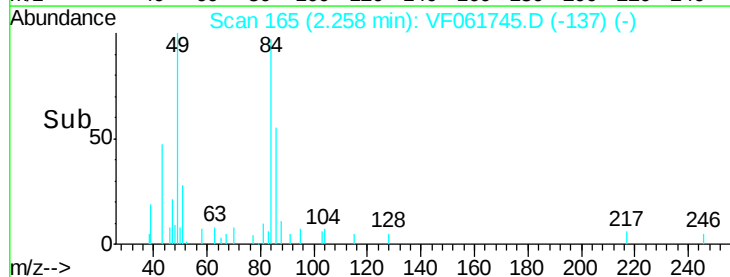
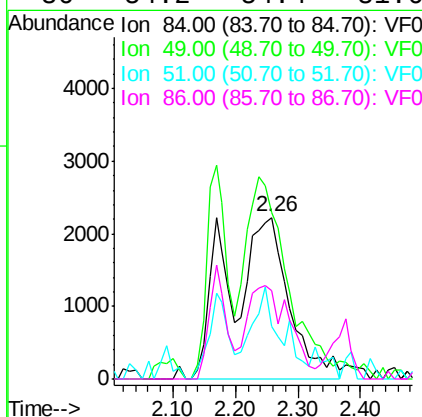
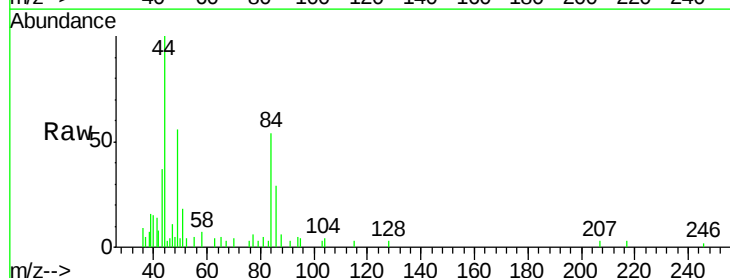
Manual Integrations
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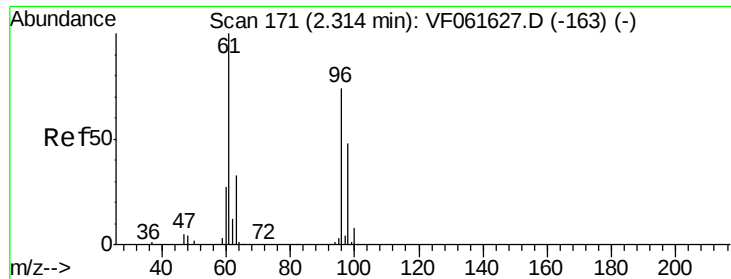
MMDadoda
2/27/2019 3:19:33 PM



#20
Methylene Chloride
Concen: 3.442 ug/l m
RT: 2.26 min Scan# 165
Delta R.T. 0.07 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion: 84 Resp: 15024
Ion Ratio Lower Upper
84 100
49 103.1 101.8 152.8
51 32.8 31.1 46.7
86 54.2 54.4 81.6#





#21

trans-1,2-Dichloroethene

Concen: 2.766 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

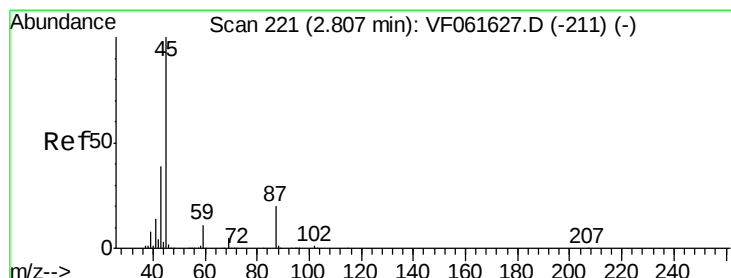
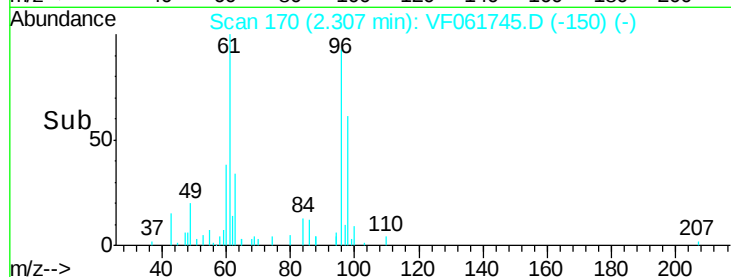
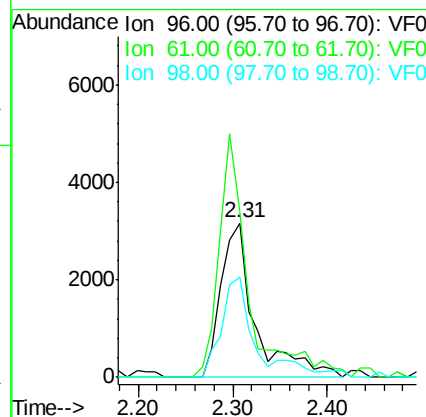
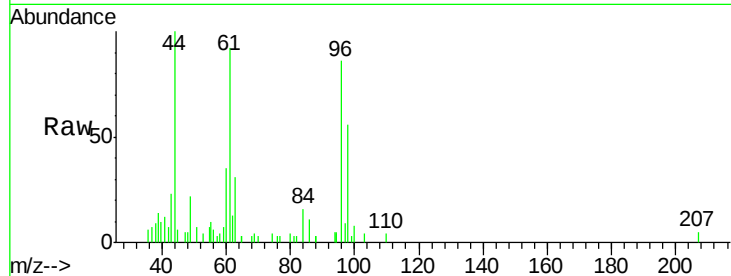
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	96	Resp:	7933
Ion	Ratio	Lower	Upper
96	100		
61	107.4	108.2	162.4#
98	65.3	52.2	78.2

Manual Integrations
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MMDadoda
2/27/2019 3:19:33 PM



#22

Diisopropyl ether

Concen: 2.787 ug/l

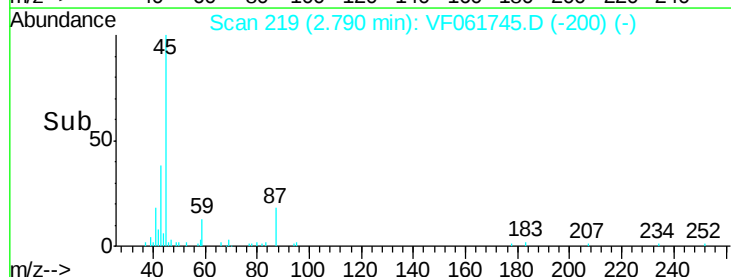
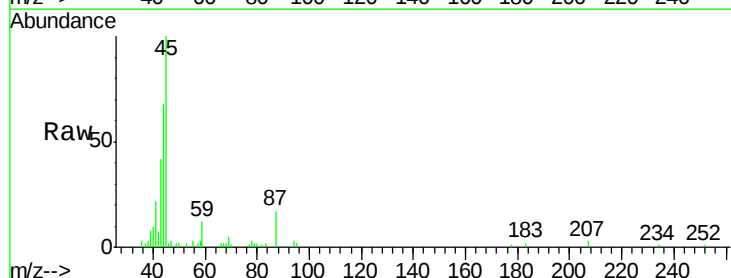
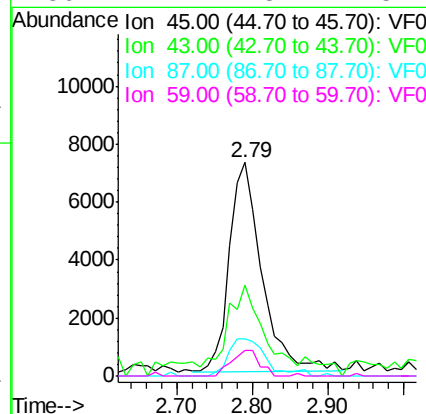
RT: 2.79 min Scan# 219

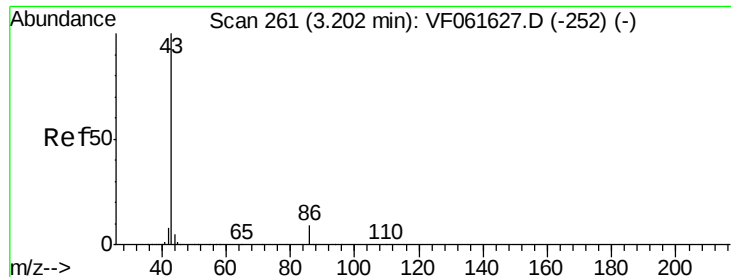
Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	45	Resp:	21654
Ion	Ratio	Lower	Upper
45	100		
43	42.4	31.4	47.2
87	17.5	16.3	24.5
59	12.1	8.7	13.1





#23

Vinyl Acetate

Concen: 10.218 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 38777

Ion Ratio Lower Upper

43 100

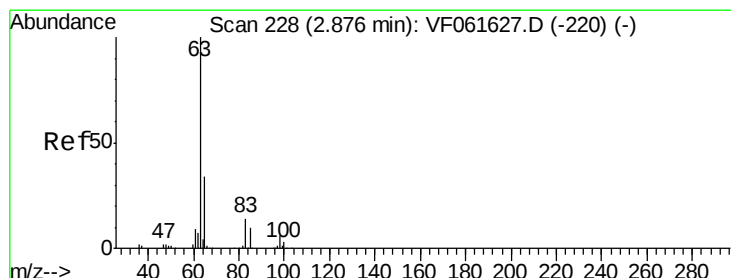
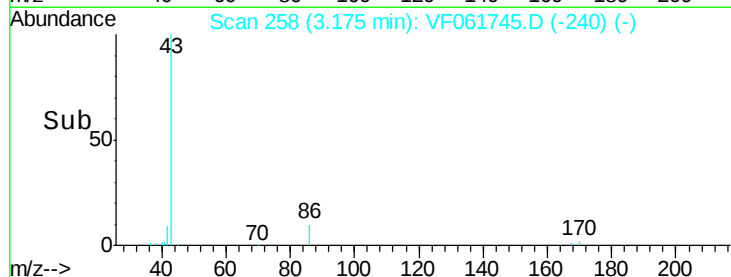
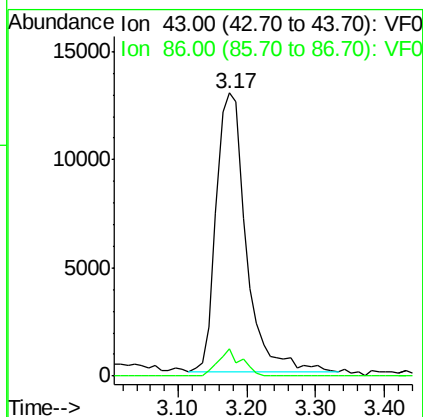
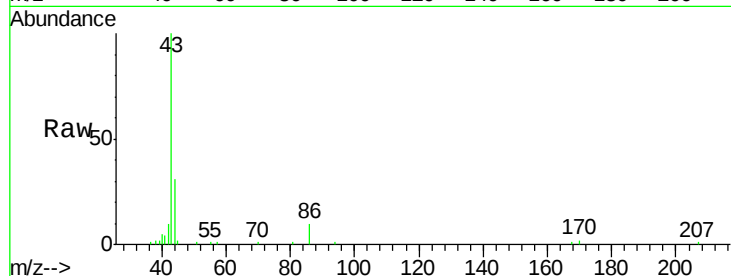
86 9.8 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

2/27/2019 3:19:33 PM



#24

1,1-Dichloroethane

Concen: 2.675 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

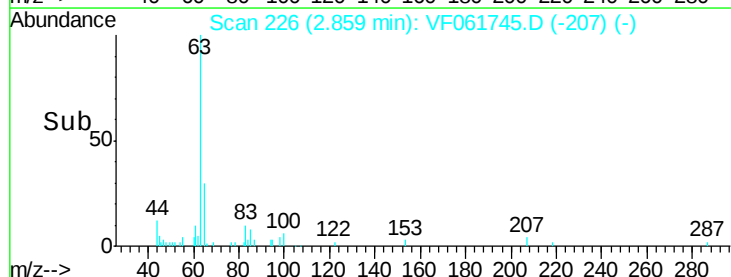
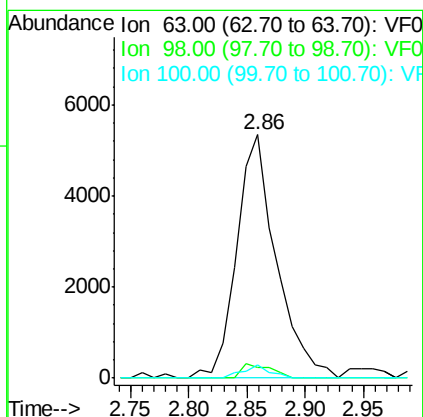
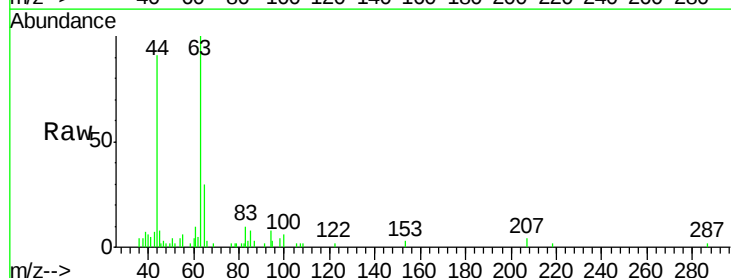
Tgt Ion: 63 Resp: 12580

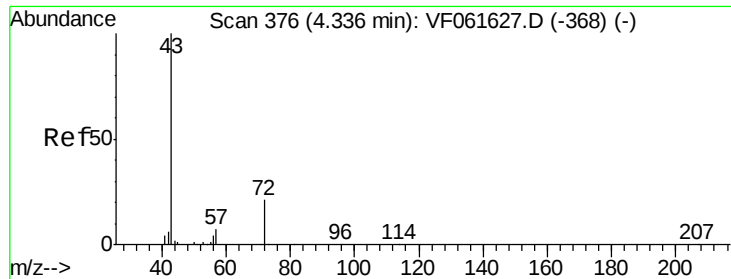
Ion Ratio Lower Upper

63 100

98 4.3 2.8 8.3

100 5.7 1.8 5.4#





#25

2-Butanone

Concen: 12.831 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 13575

Ion Ratio Lower Upper

43 100

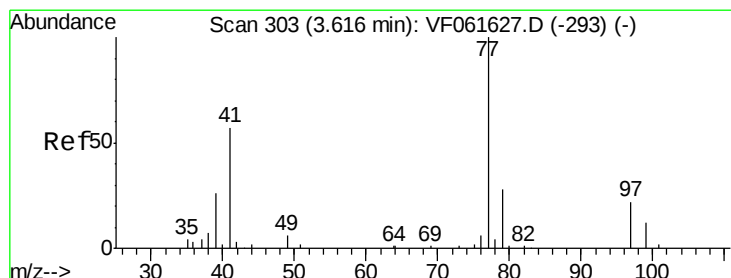
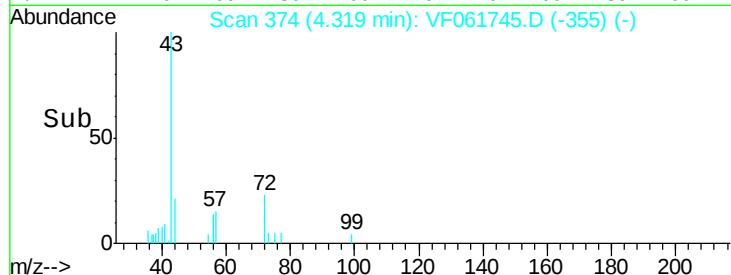
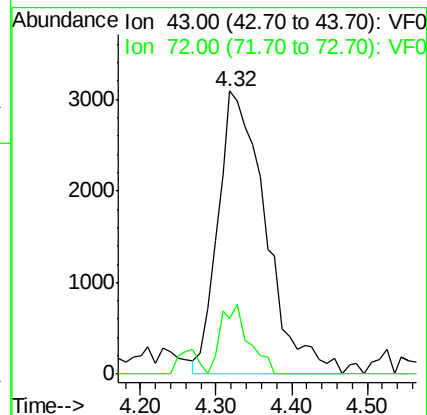
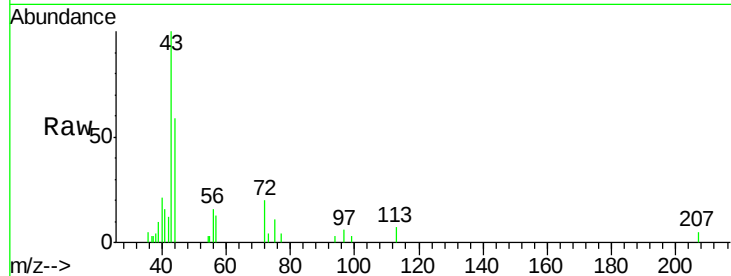
72 19.5 17.1 25.7

Manual Integrations

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2/27/2019 3:19:33 PM



#26

2,2-Dichloropropane

Concen: 2.834 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.03 min

Lab File: VF061745.D

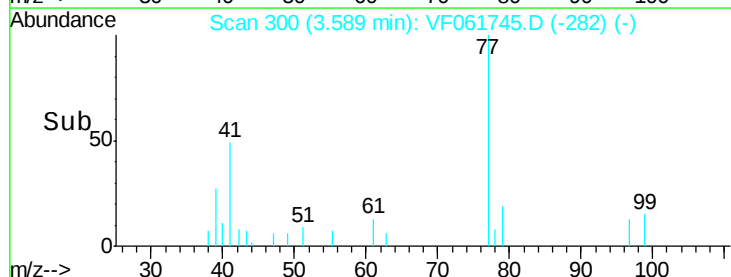
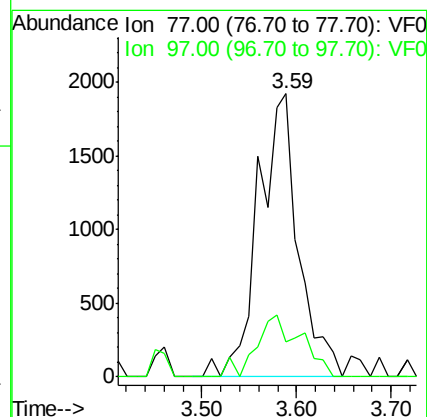
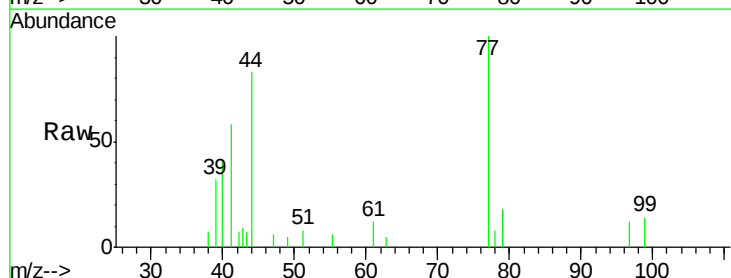
Acq: 26 Feb 2019 16:34

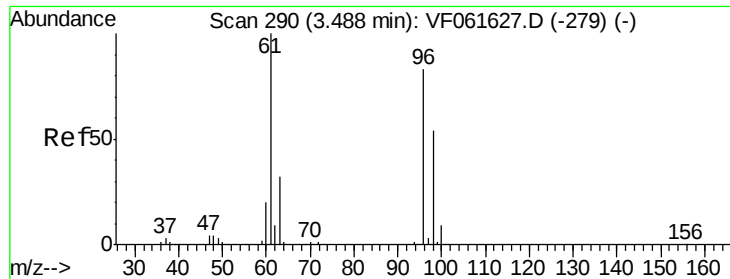
Tgt Ion: 77 Resp: 5645

Ion Ratio Lower Upper

77 100

97 12.2 11.7 35.0





#27

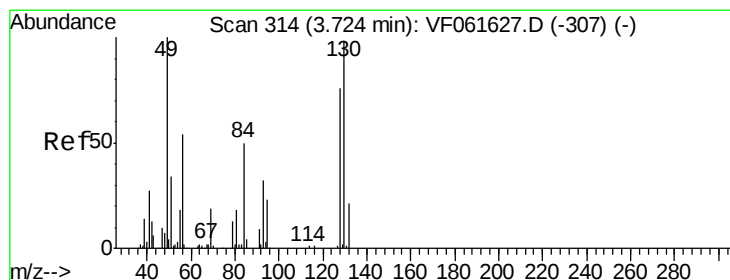
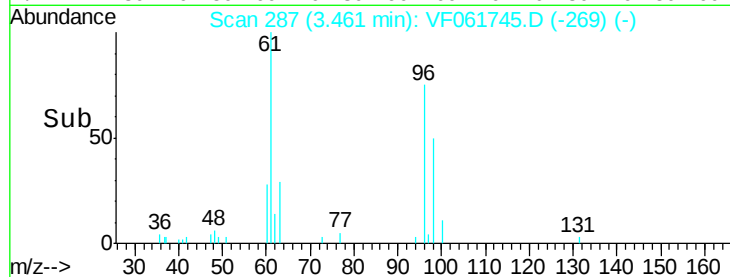
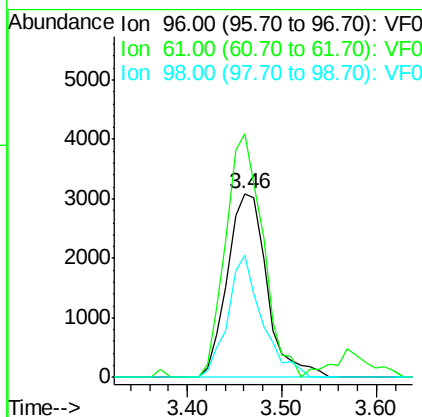
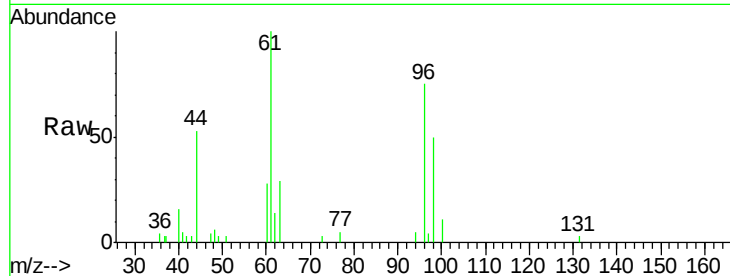
cis-1,2-Dichloroethene
Concen: 2.378 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.6	0.0	241.6
98	66.3	0.0	130.2

Manual Integrations
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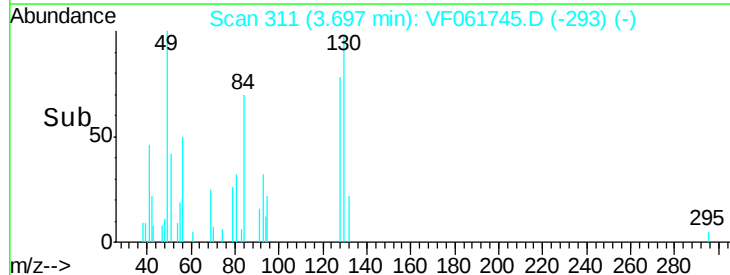
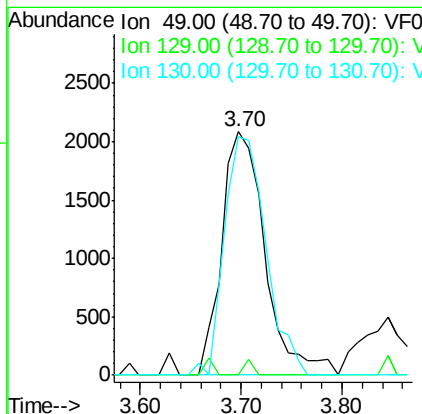
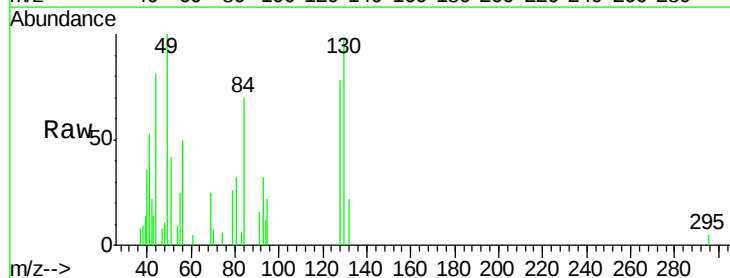
MMDadoda
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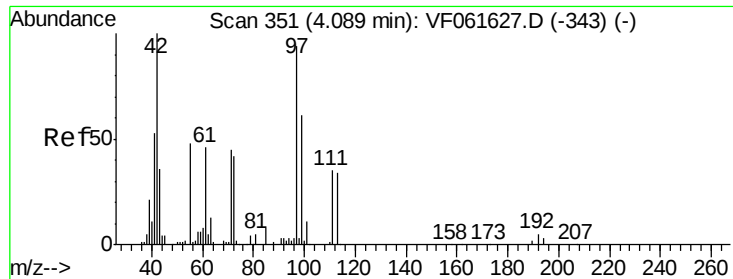


#28

Bromochloromethane
Concen: 2.760 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	98.1	77.7	116.5





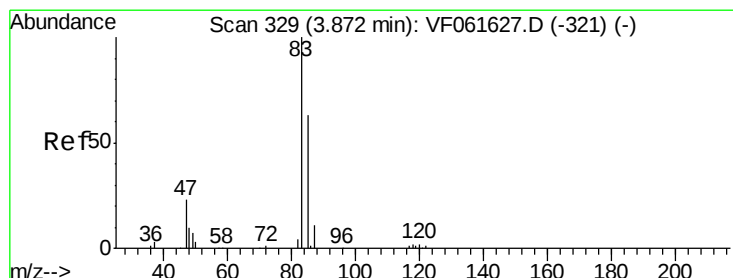
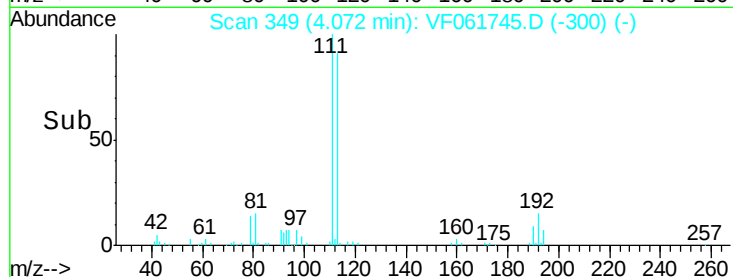
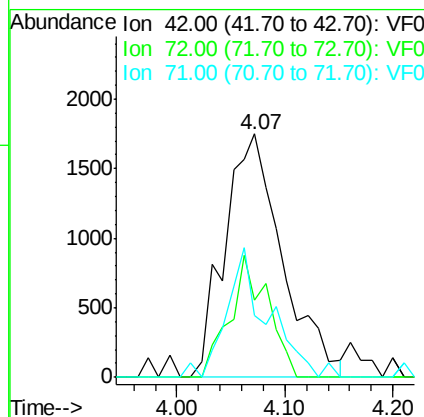
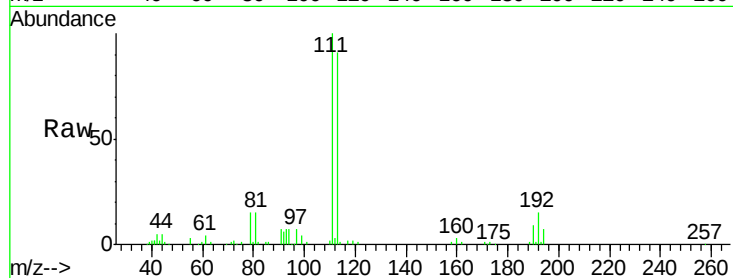
#29
Tetrahydrofuran
Concen: 13.543 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.1	35.2	52.8#
71	38.5	32.9	49.3

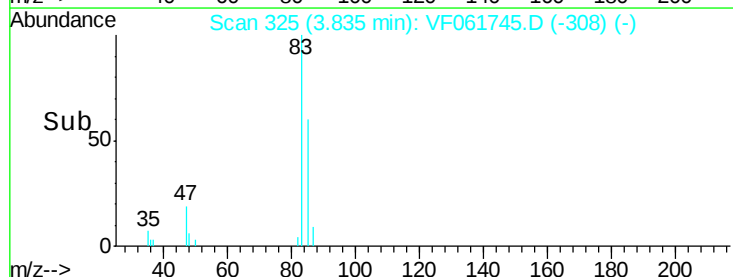
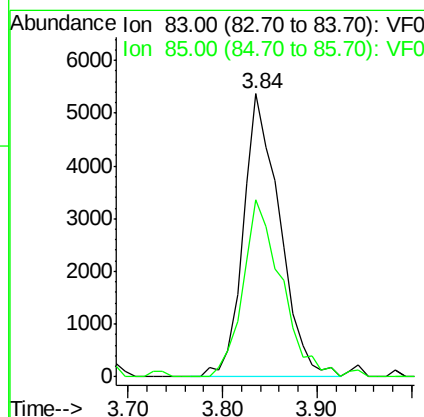
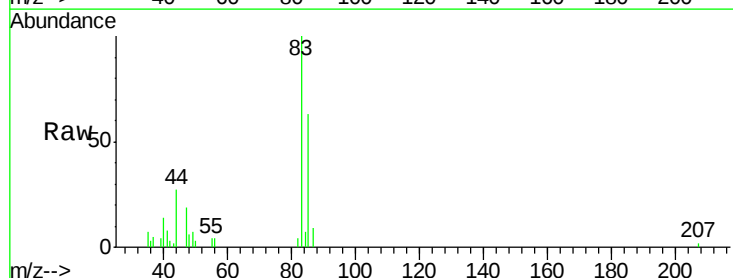
Manual Integrations
APPROVED

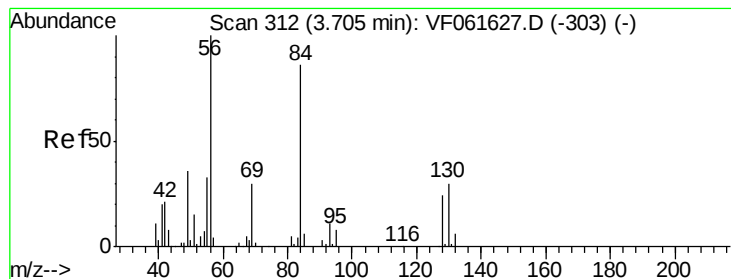
MMDadoda
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#30
Chloroform
Concen: 2.688 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.04 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.1	76.7





#31

Cyclohexane

Concen: 2.598 ug/l

RT: 3.67 min Scan# 308

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

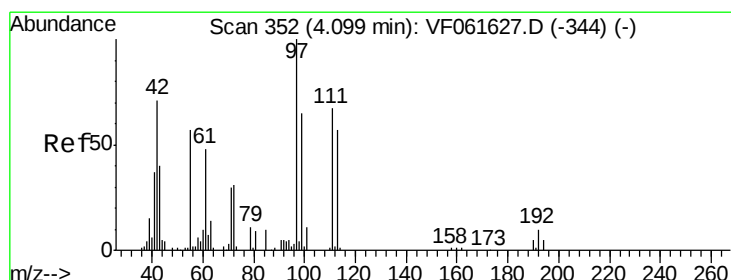
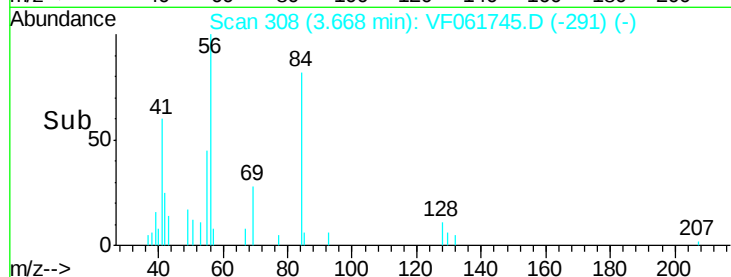
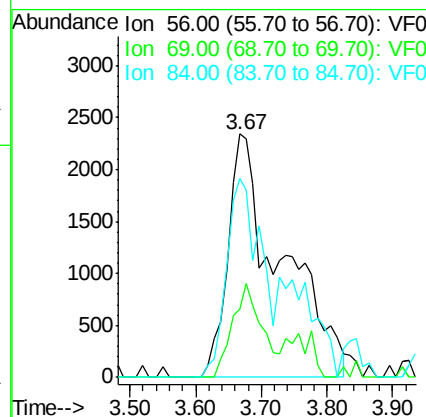
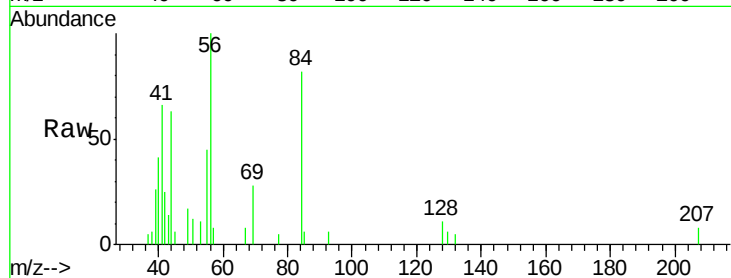
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	56	Resp:	13226
Ion	Ratio	Lower	Upper
56	100		
69	27.9	23.8	35.8
84	81.7	68.6	103.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 2.426 ug/l

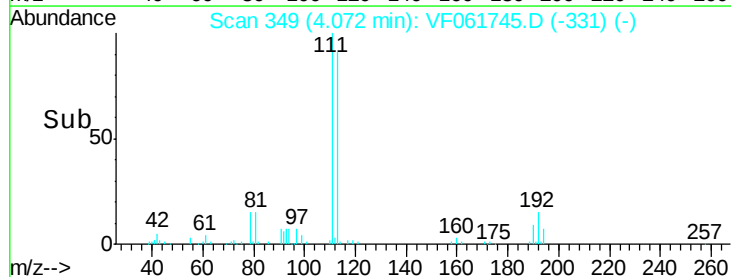
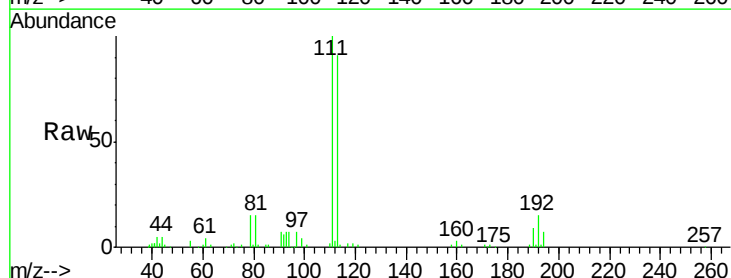
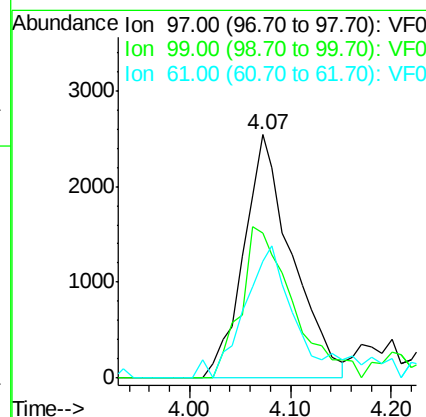
RT: 4.07 min Scan# 349

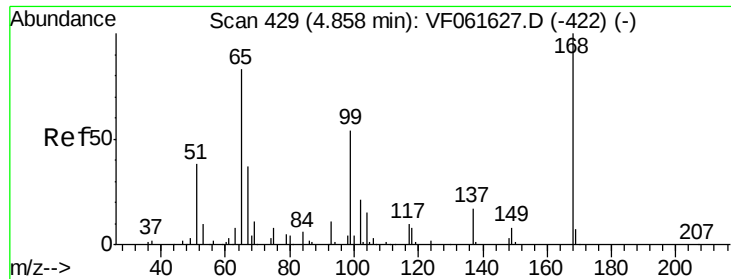
Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	97	Resp:	8499
Ion	Ratio	Lower	Upper
97	100		
99	59.4	52.2	78.2
61	47.8	39.2	58.8





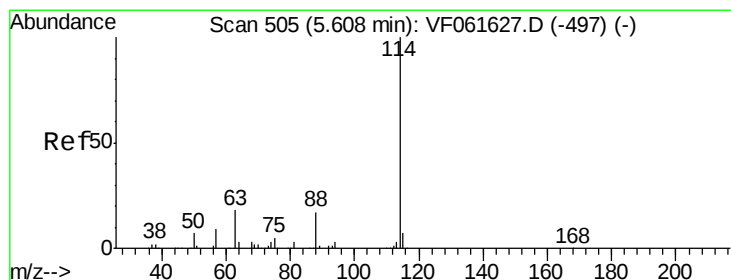
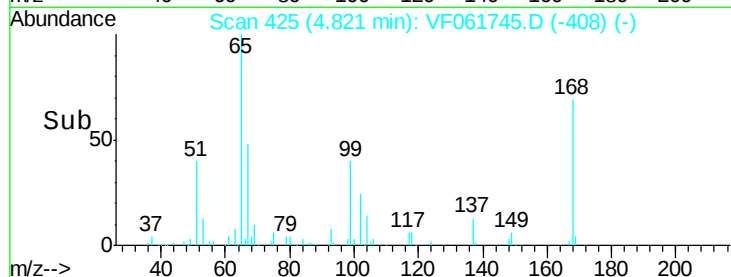
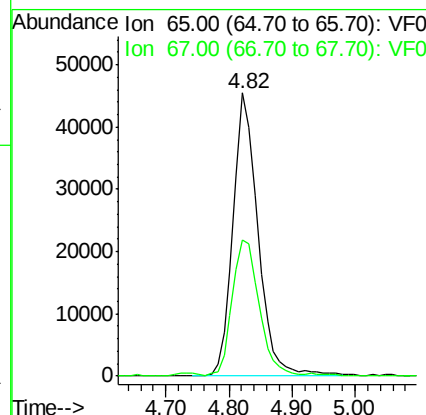
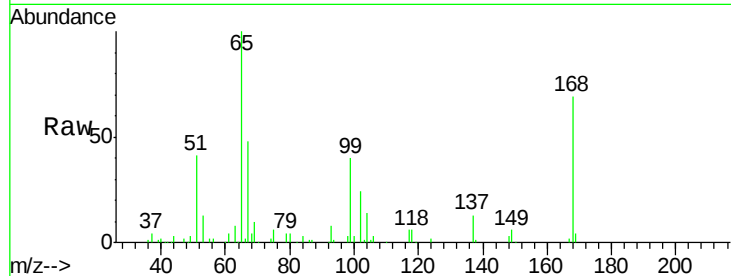
#33
 1,2-Dichloroethane-d4
 Concen: 55.481 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.04 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	125242		
67	48.3	0.0	104.0	

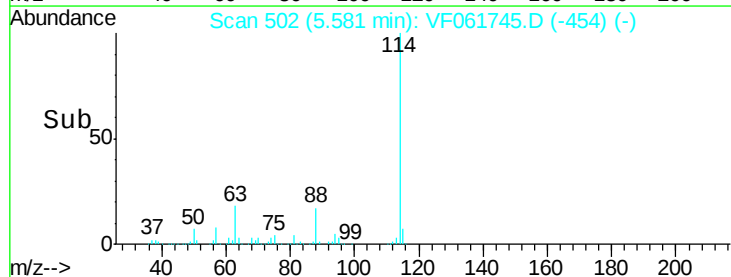
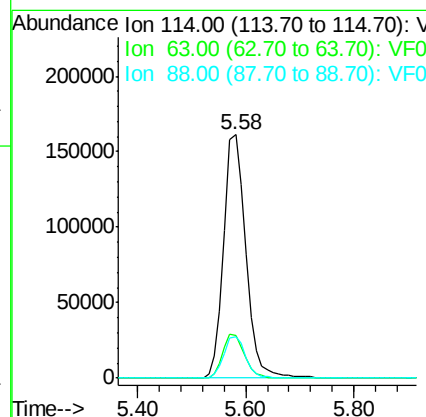
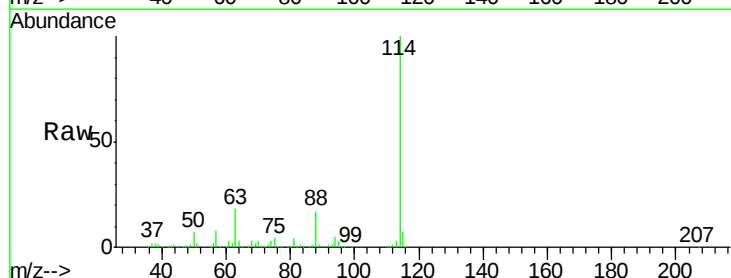
Manual Integrations
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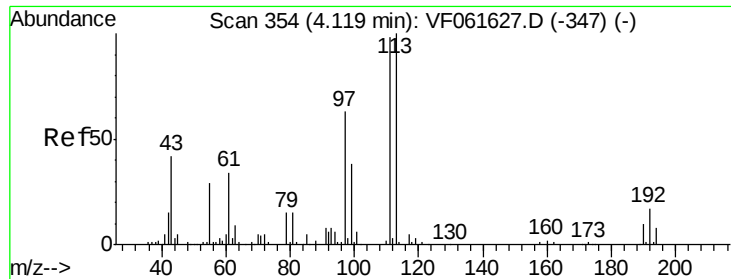
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	460112		
63	17.6	0.0	36.6	
88	17.2	0.0	34.4	





#35

Dibromofluoromethane

Concen: 54.302 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

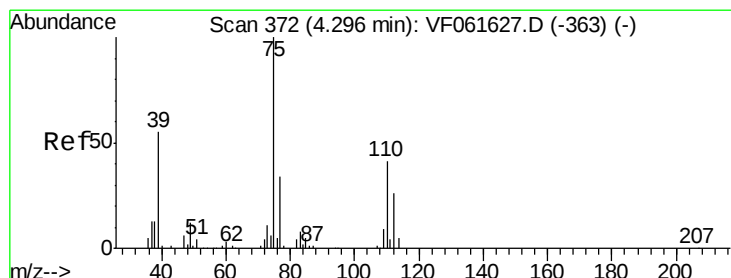
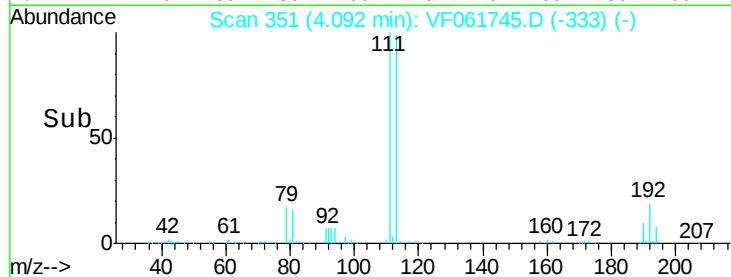
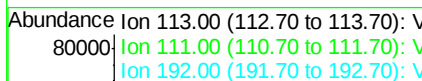
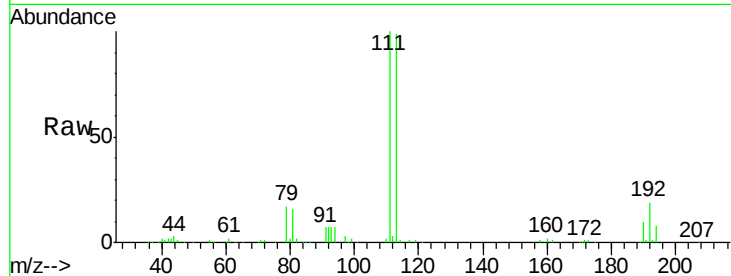
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	113	Resp:	185541
Ion Ratio	Lower	Upper	
113	100		
111	100.8	78.8	118.2
192	18.9	13.4	20.0

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 2.809 ug/l

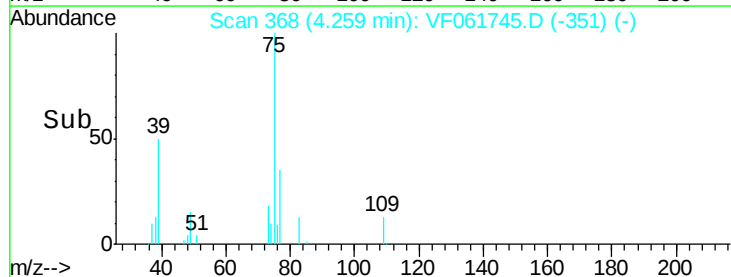
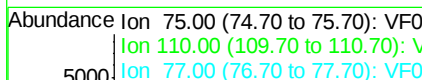
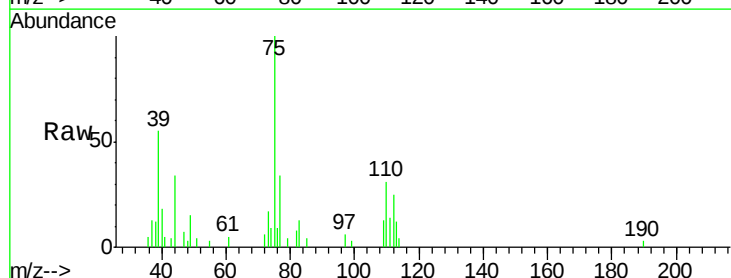
RT: 4.26 min Scan# 368

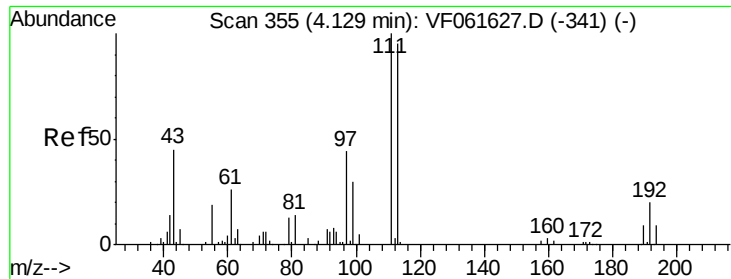
Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	75	Resp:	12805
Ion Ratio	Lower	Upper	
75	100		
110	30.8	20.5	61.6
77	33.7	27.0	40.4





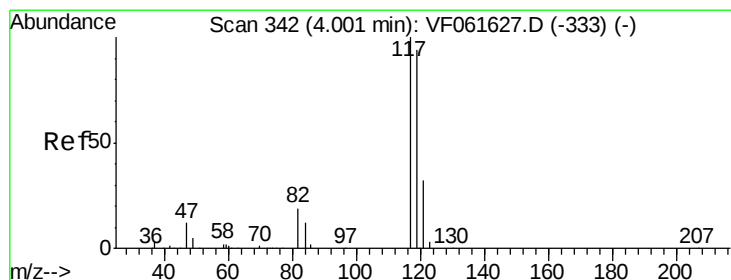
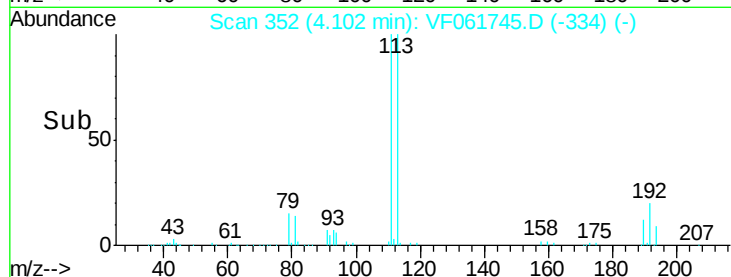
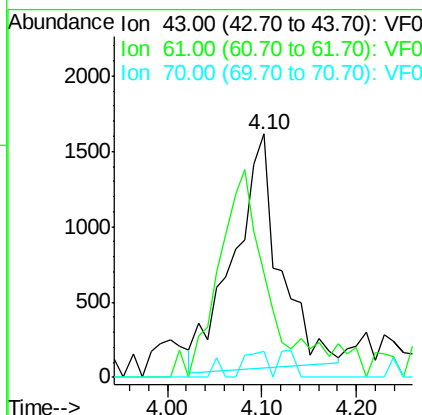
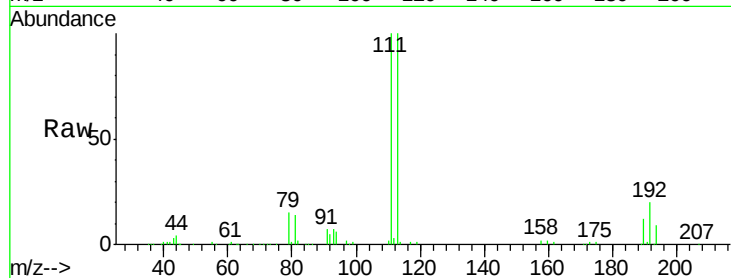
#37
Ethyl Acetate
Concen: 2.455 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	43	61	70	Ratio	Lower	Upper
5197	100	42.8	10.6			
		45.7	8.5			
		68.5#	12.7			

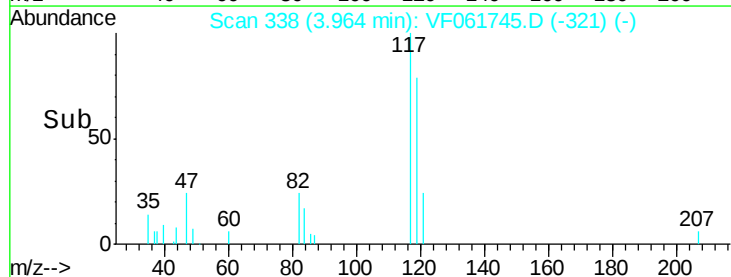
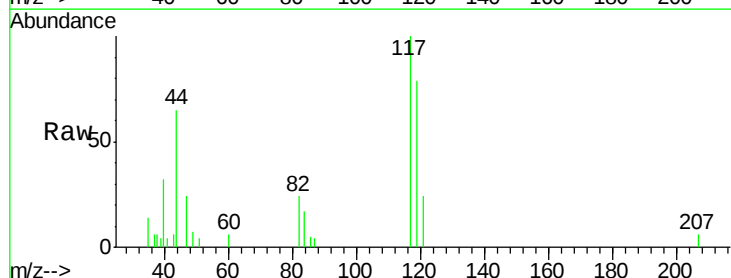
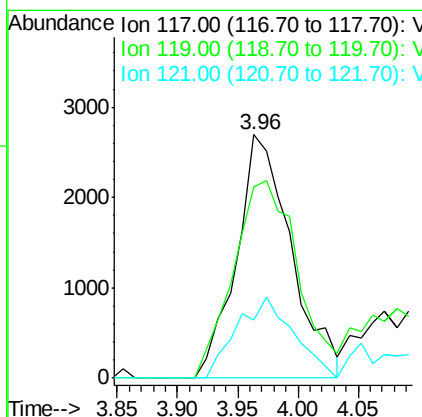
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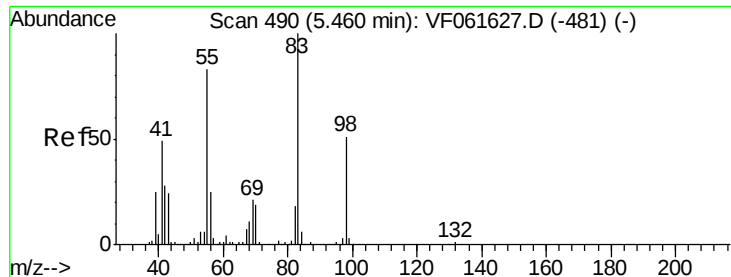
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#38
Carbon Tetrachloride
Concen: 2.702 ug/l m
RT: 3.96 min Scan# 338
Delta R.T. -0.04 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	117	119	121	Ratio	Lower	Upper
8505	100	78.7	24.1			
		75.6	25.2			
		113.4	37.8#			





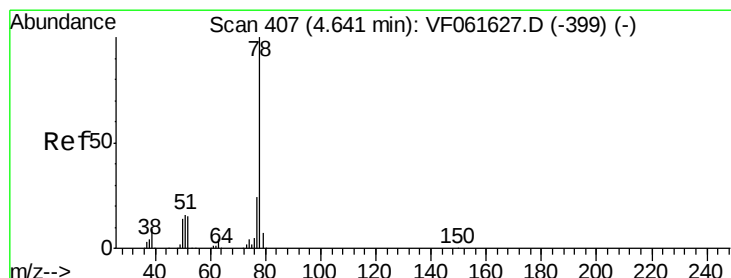
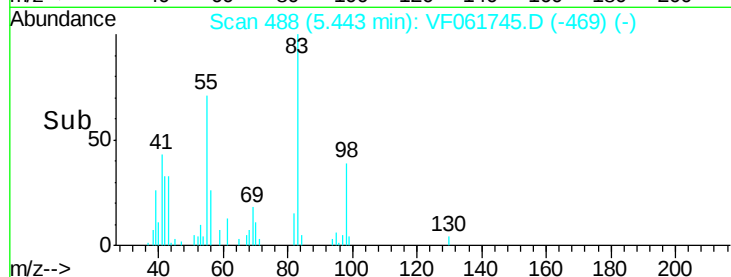
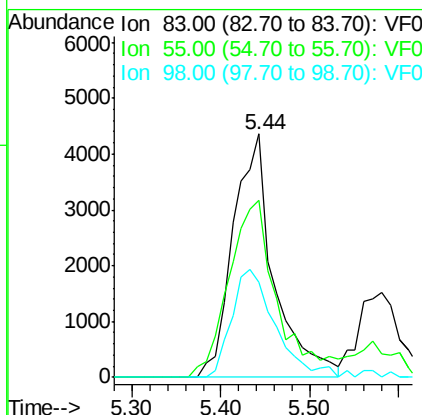
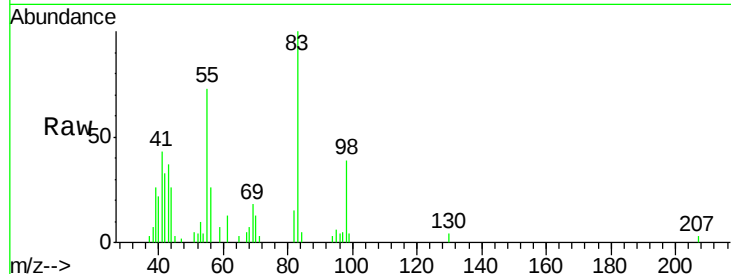
#39
Methvlcvclohexane
Concen: 2.581 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	72.9	66.6	99.8	
98	39.3	40.4	60.6	

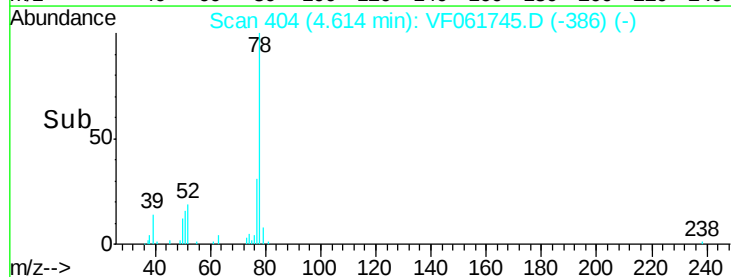
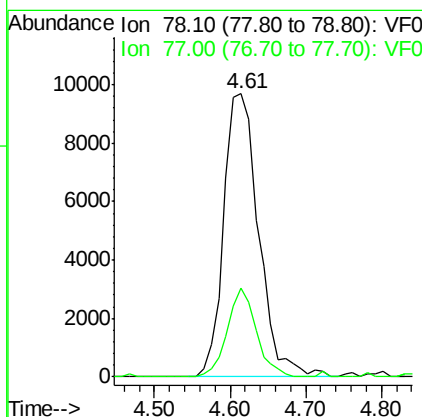
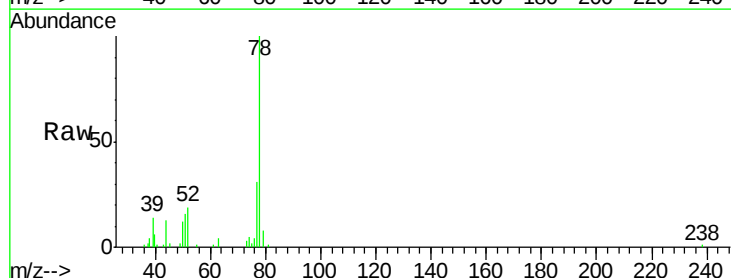
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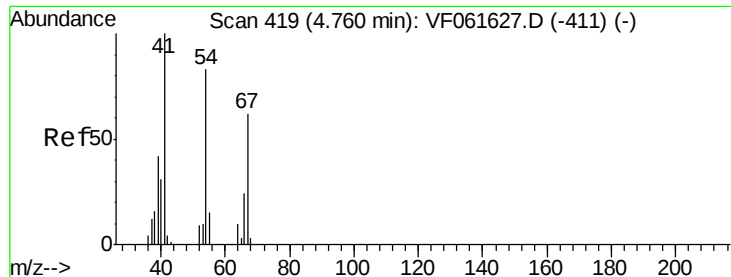
MMDadoda
2/27/2019 3:19:33 PM



#40
Benzene
Concen: 2.604 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	31.2	19.0	28.6	





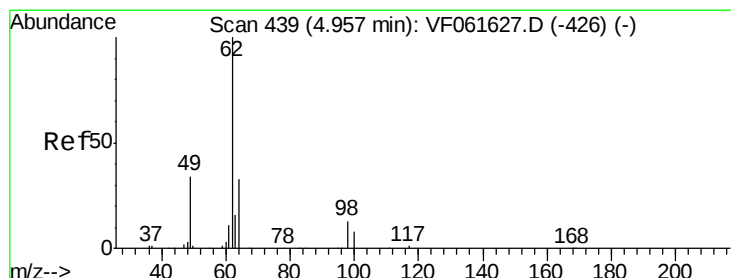
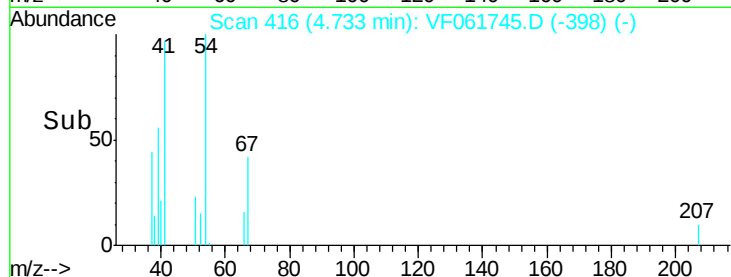
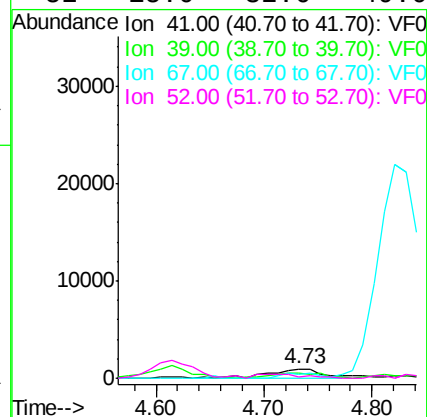
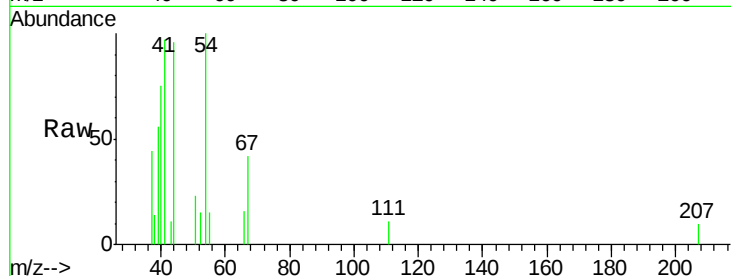
#41
Methacrylonitrile
Concen: 3.006 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.3	45.3	67.9
67	43.2	49.3	73.9#
52	15.0	32.6	49.0#

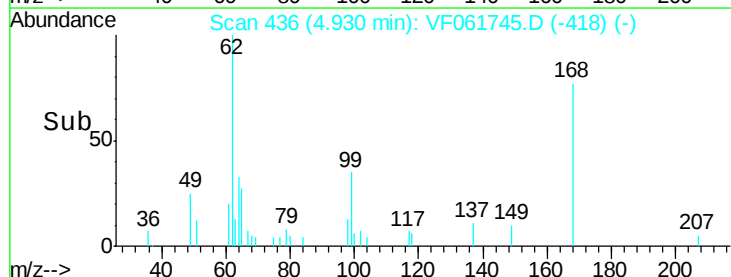
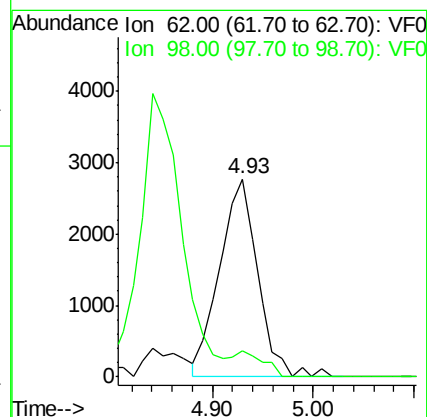
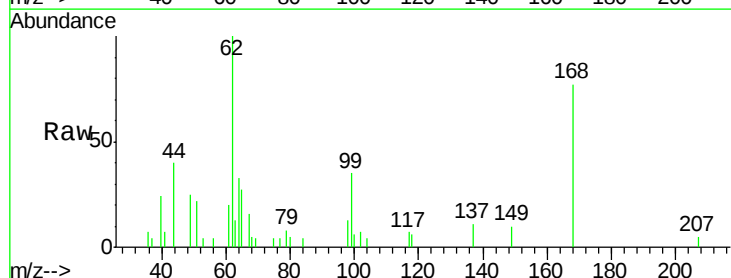
Manual Integrations
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#42
1,2-Dichloroethane
Concen: 2.562 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
62	100		
98	13.0	0.0	26.0





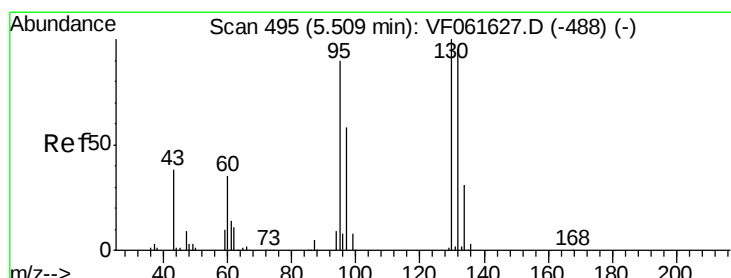
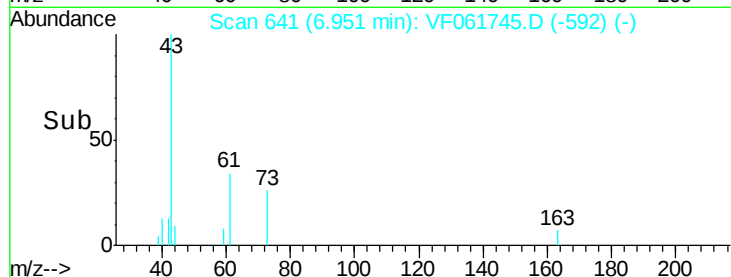
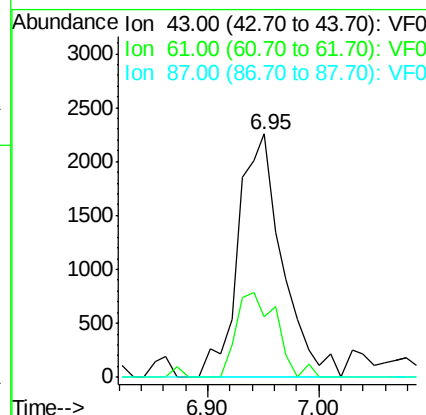
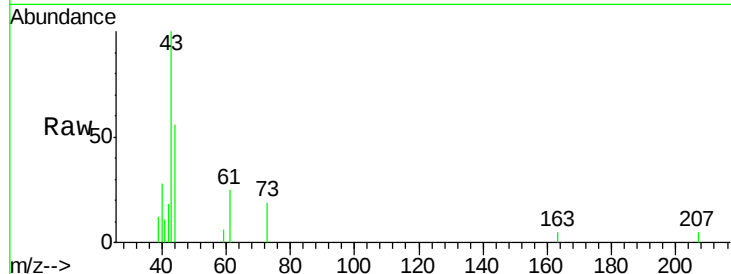
#43
Isopropyl Acetate
Concen: 2.479 ug/l m
RT: 6.95 min Scan# 641
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	24.8	25.8	38.6#
87	0.0	0.4	0.6#

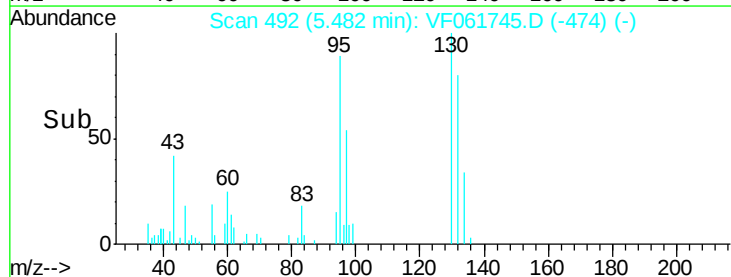
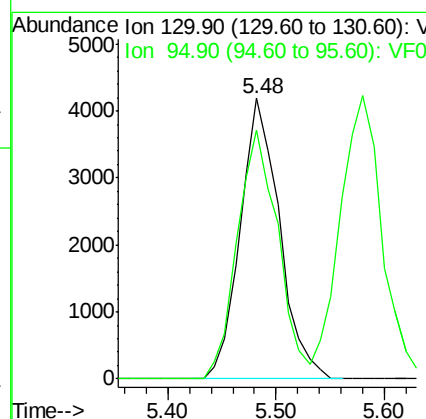
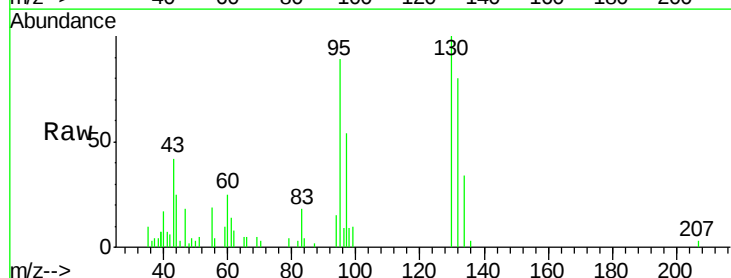
Manual Integrations
APPROVED

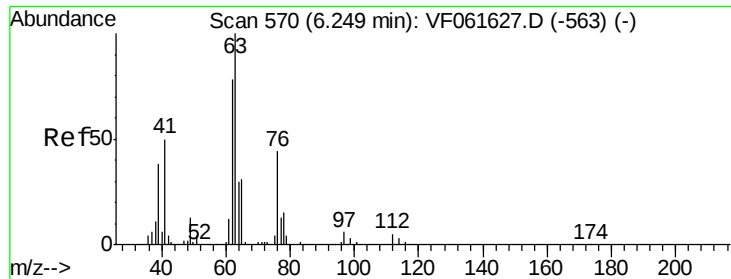
MMDadoda
2/27/2019 3:19:33 PM



#44
Trichloroethene
Concen: 2.746 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.8	0.0	179.4





#45

1,2-Dichloropropane

Concen: 2.656 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 63 Resp: 7653

Ion Ratio Lower Upper

63 100

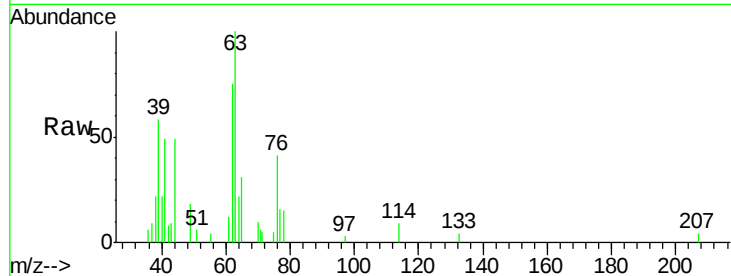
65 30.9 24.9 37.3

Manual Integrations

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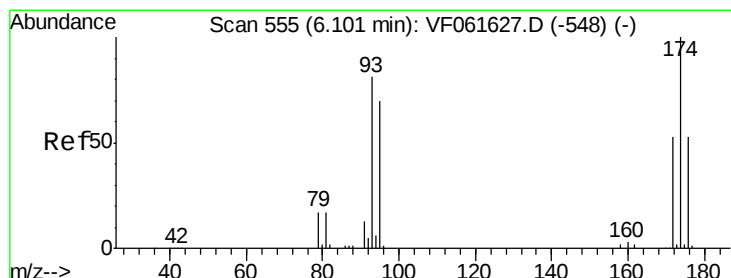
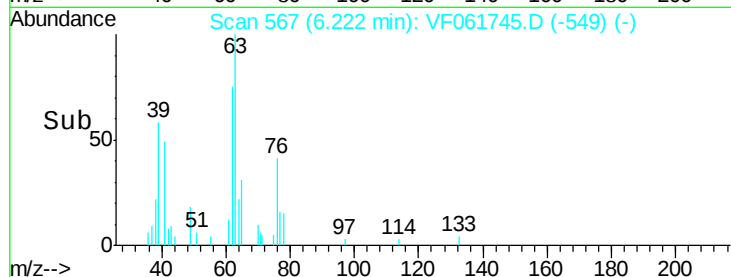
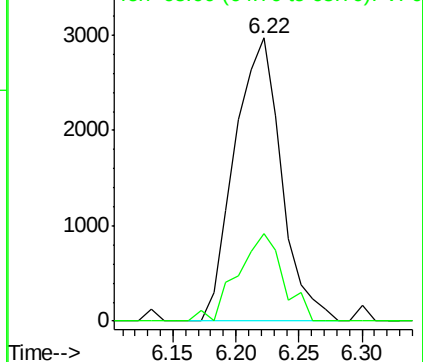
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 2.506 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

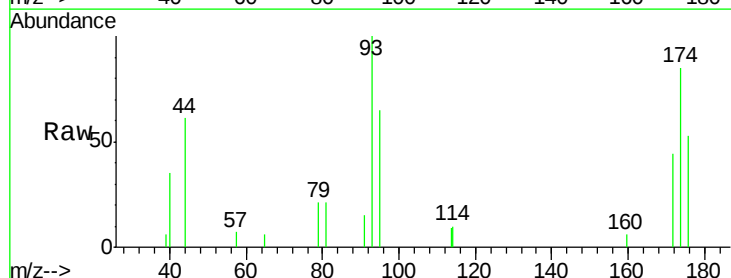
Tgt Ion: 93 Resp: 4446

Ion Ratio Lower Upper

93 100

95 65.3 69.0 103.6#

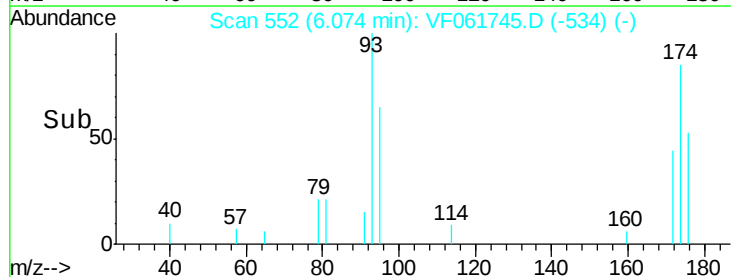
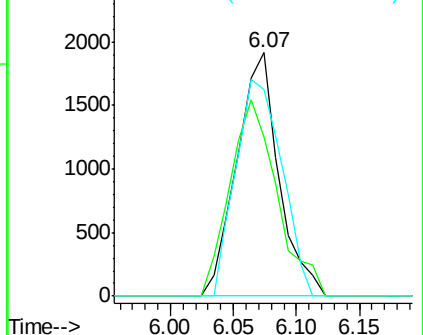
174 85.0 99.3 148.9#

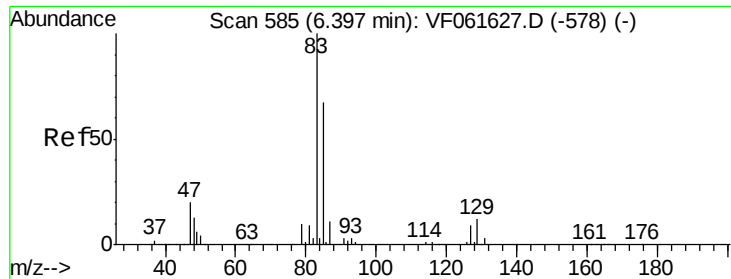


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 2.535 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

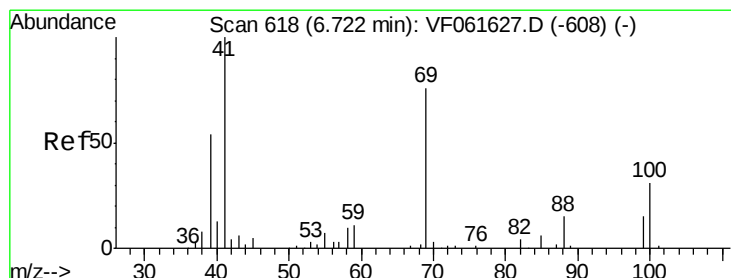
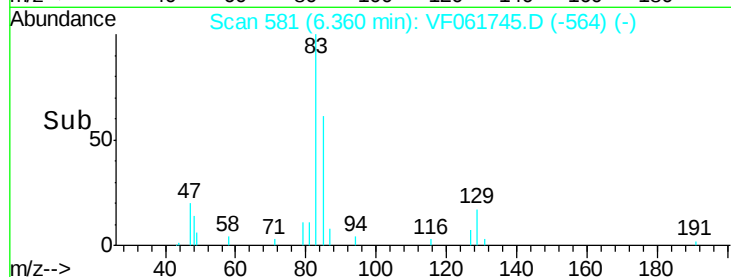
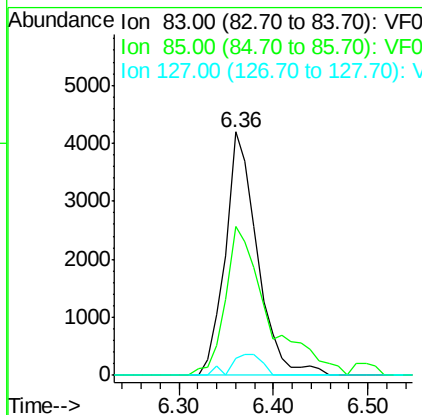
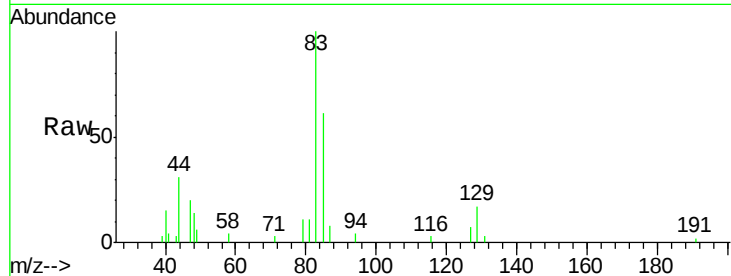
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	83	Resp:	9848
Ion	Ratio	Lower	Upper
83	100		
85	61.1	53.4	80.2
127	7.2	7.5	11.3#

Manual Integrations
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#48

Methyl methacrylate

Concen: 2.593 ug/l

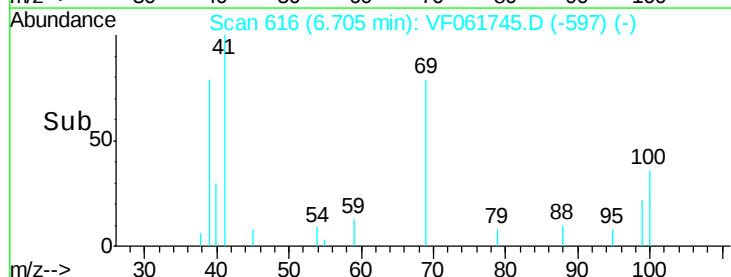
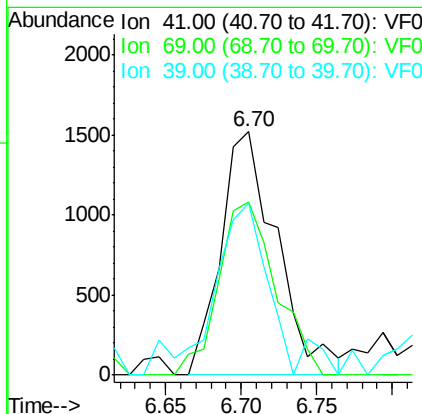
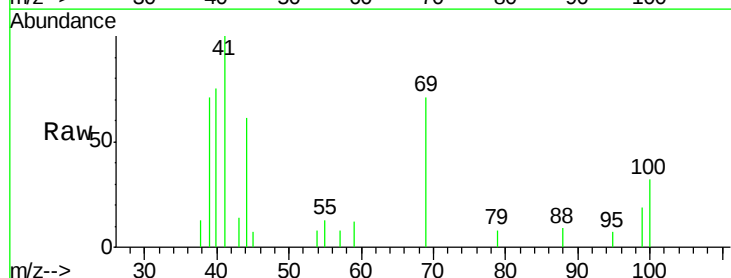
RT: 6.70 min Scan# 616

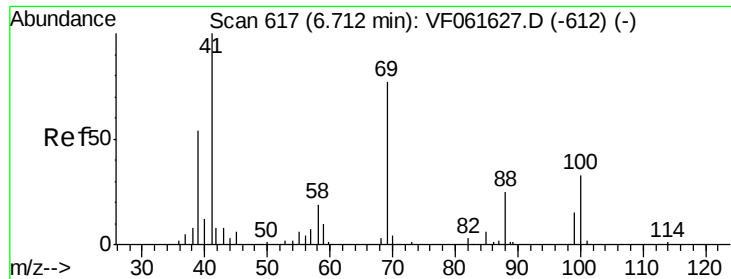
Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	41	Resp:	3911
Ion	Ratio	Lower	Upper
41	100		
69	70.9	60.4	90.6
39	70.8	43.7	65.5#





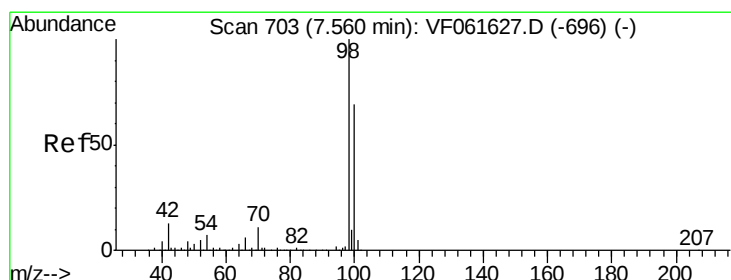
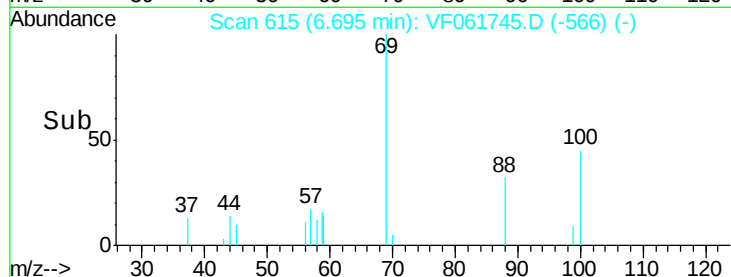
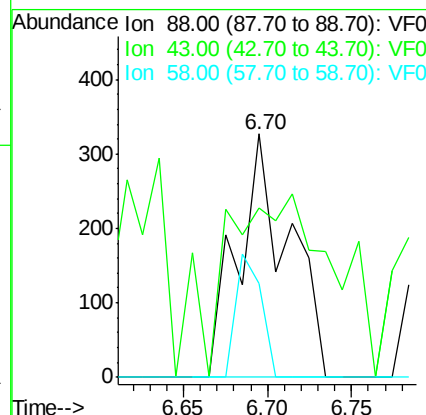
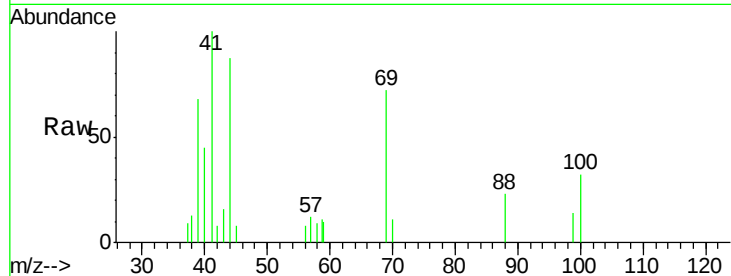
#49
1,4-Dioxane
Concen: 48.108 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
88	100	682		
43	69.7		32.3	48.5#
58	38.5		59.4	89.2#

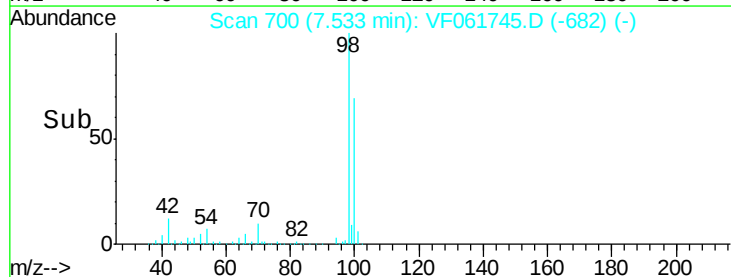
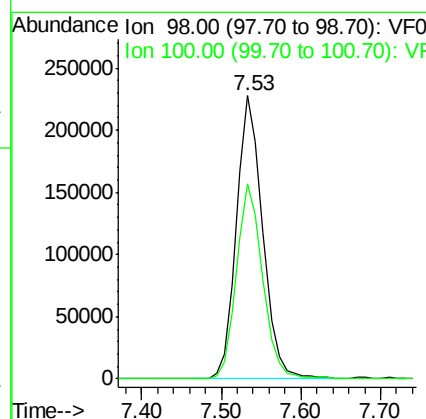
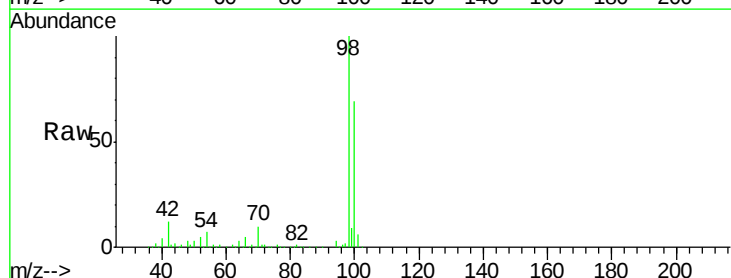
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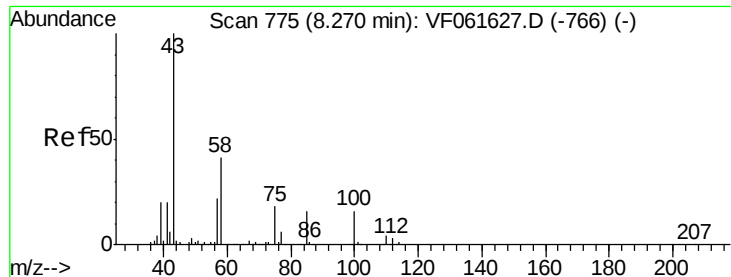
MMDadoda
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#50
Toluene-d8
Concen: 53.513 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	525630		
100	68.8		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 12.660 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 22669

Ion Ratio Lower Upper

43 100

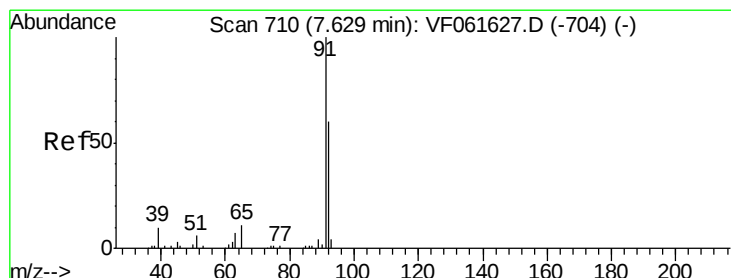
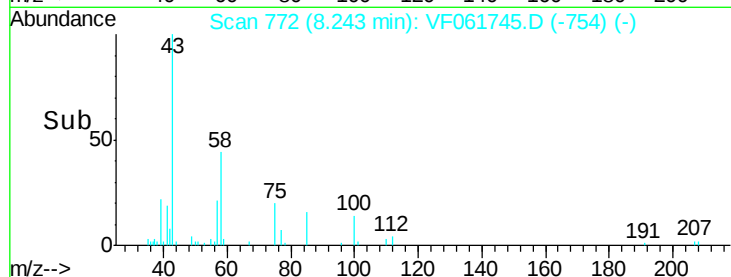
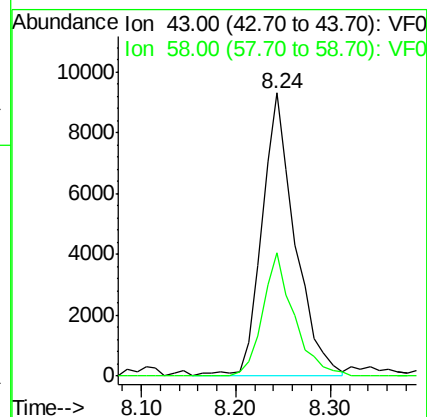
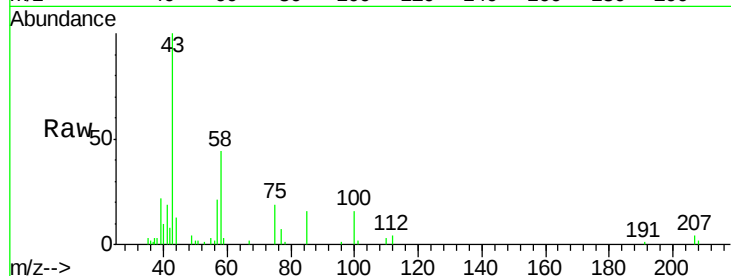
58 43.7 33.1 49.7

Manual Integrations

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2/27/2019 3:19:33 PM



#52

Toluene

Concen: 2.503 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061745.D

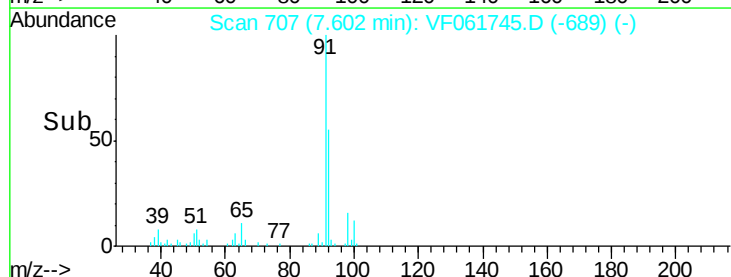
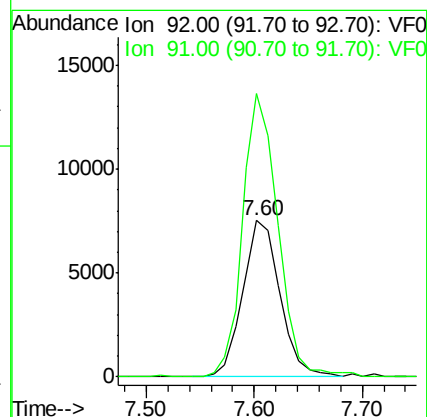
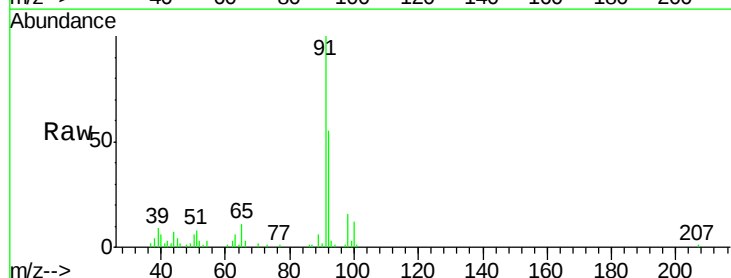
Acq: 26 Feb 2019 16:34

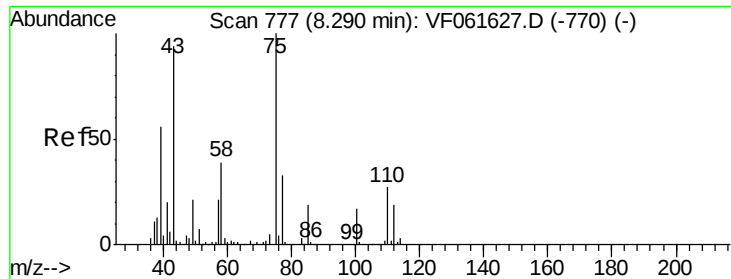
Tgt Ion: 92 Resp: 18095

Ion Ratio Lower Upper

92 100

91 181.2 133.9 200.9





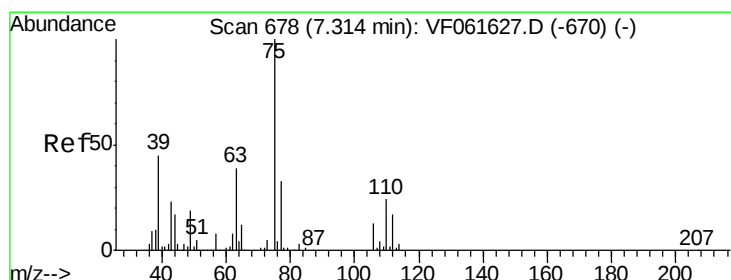
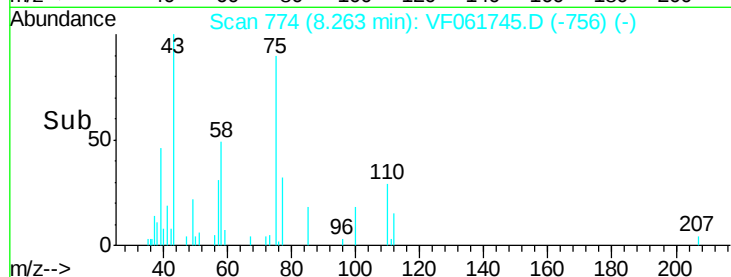
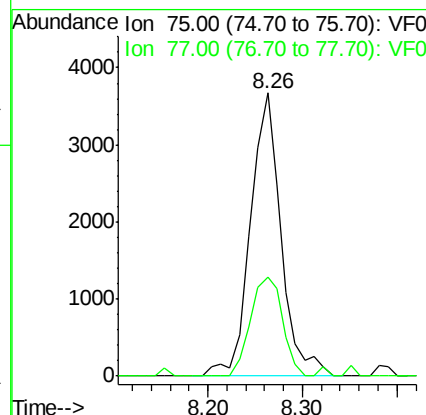
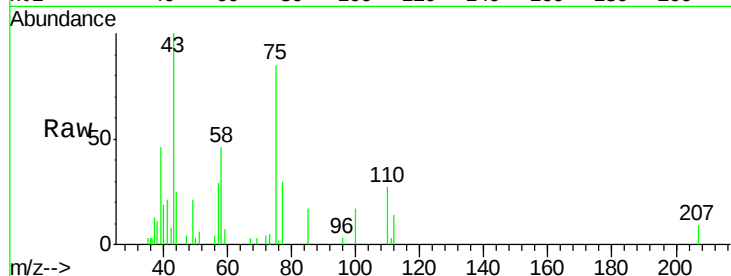
#53
 t-1,3-Dichloropropene
 Concen: 2.555 ug/l
 RT: 8.26 min Scan# 774
 Delta R.T. -0.03 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 75 Resp: 8263
 Ion Ratio Lower Upper
 75 100
 77 35.0 26.2 39.2

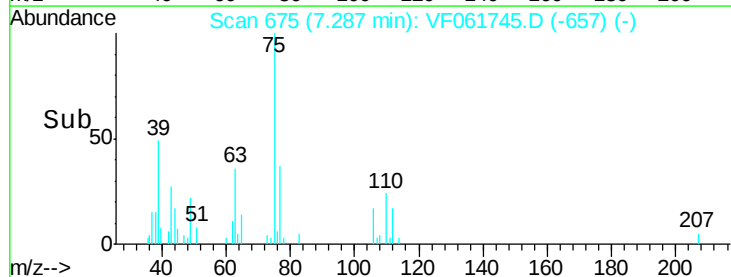
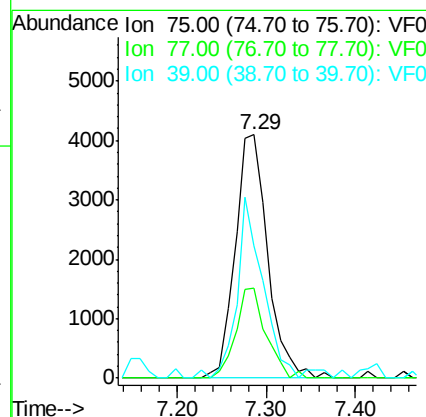
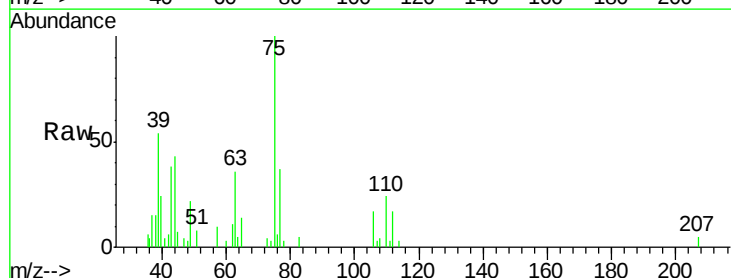
Manual Integrations
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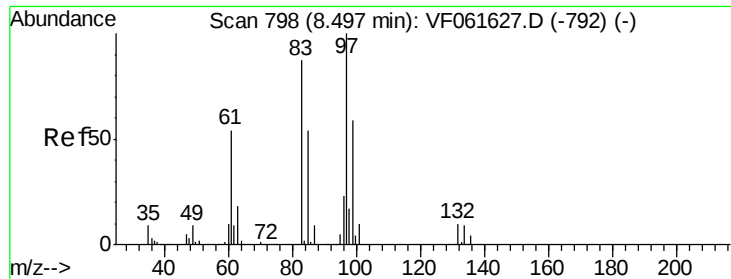
MMDadoda
 2/27/2019 3:19:33 PM



#54
 cis-1,3-Dichloropropene
 Concen: 2.431 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. -0.03 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion: 75 Resp: 10472
 Ion Ratio Lower Upper
 75 100
 77 37.0 26.4 39.6
 39 54.5 36.0 54.0#





#55

1,1,2-Trichloroethane

Concen: 2.487 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

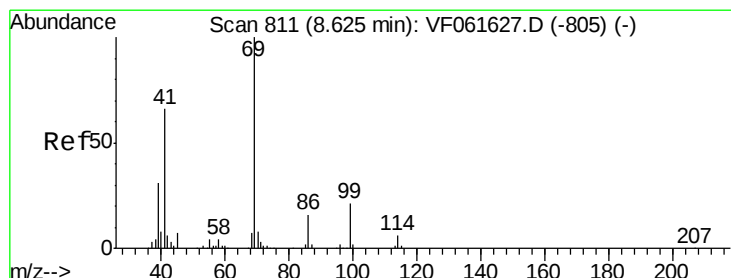
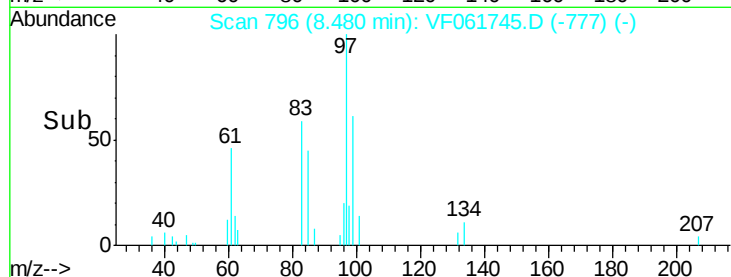
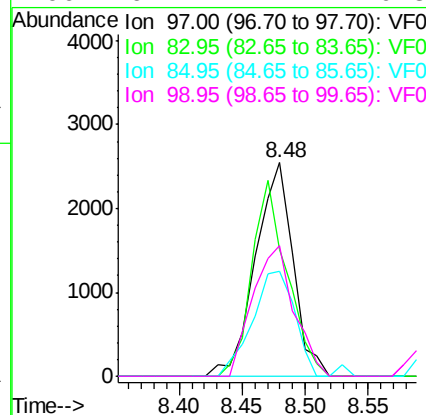
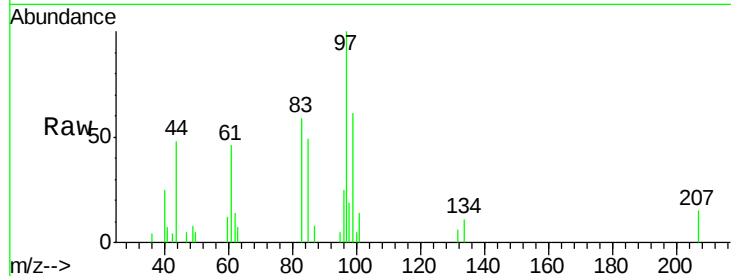
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	97	Resp:	5283
Ion	Ratio	Lower	Upper
97	100		
83	59.2	69.2	103.8#
85	49.0	43.0	64.4
99	61.2	47.2	70.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 2.608 ug/l

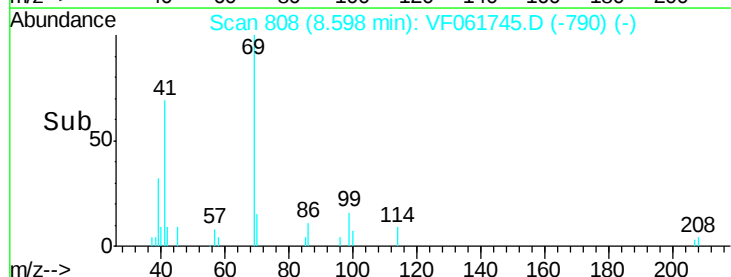
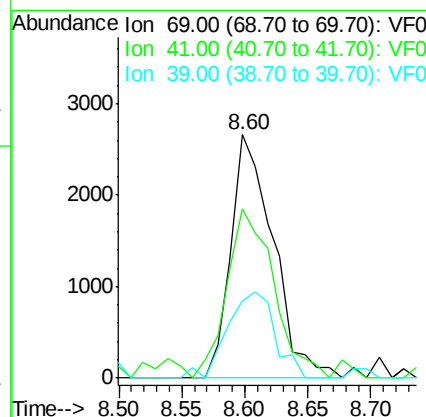
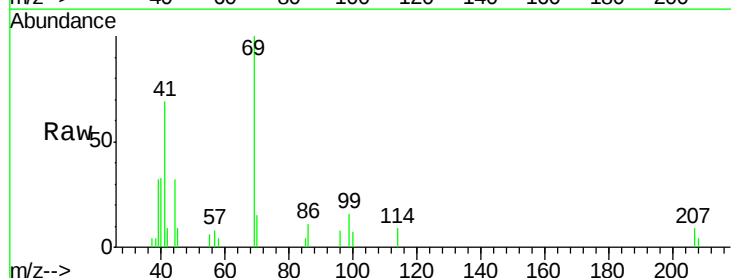
RT: 8.60 min Scan# 808

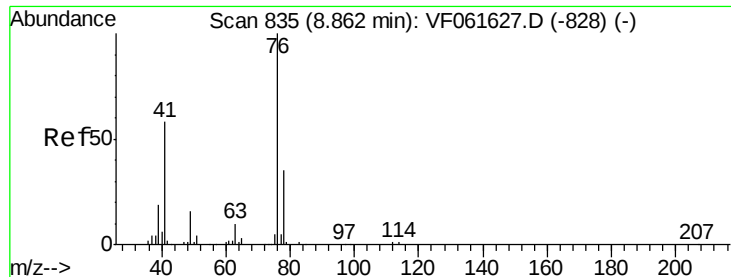
Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	69	Resp:	6168
Ion	Ratio	Lower	Upper
69	100		
41	69.4	52.9	79.3
39	31.7	24.5	36.7





#57

1,3-Dichloropropane

Concen: 2.471 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 8762

Ion Ratio Lower Upper

76 100

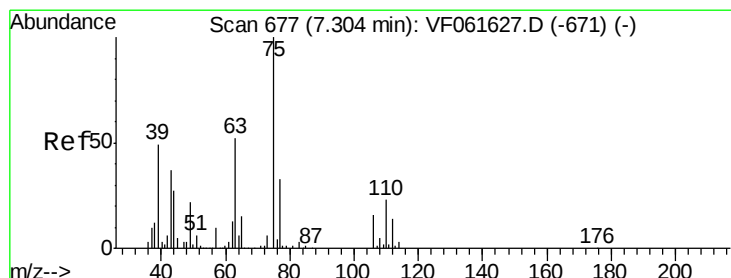
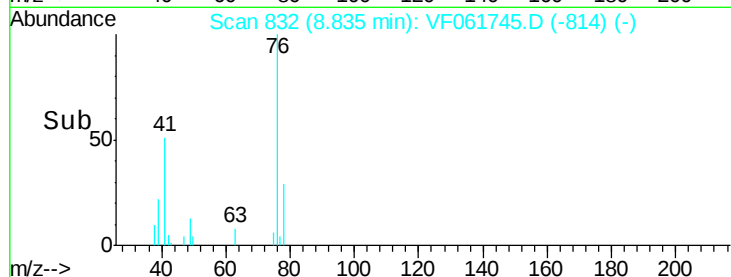
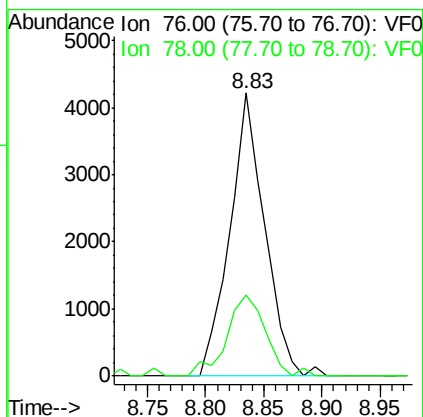
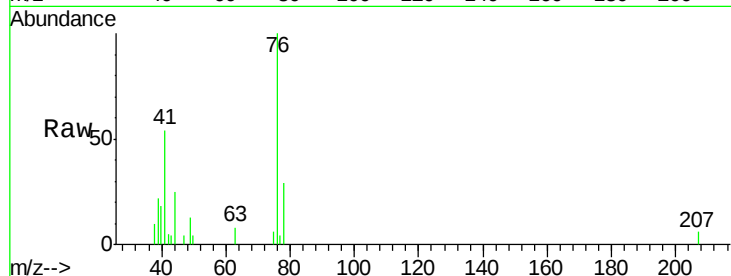
78 28.8 27.8 41.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 9.461 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061745.D

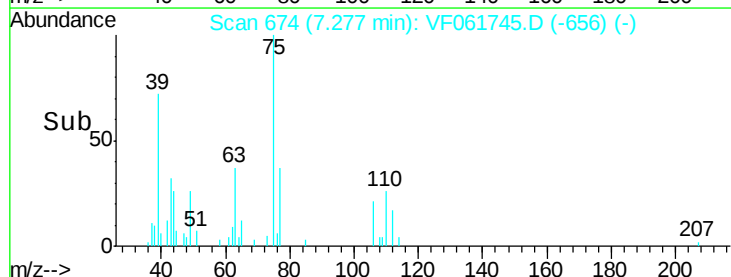
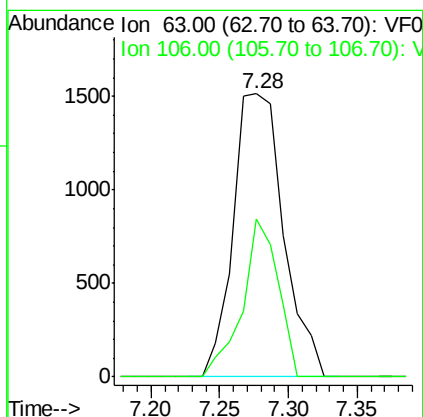
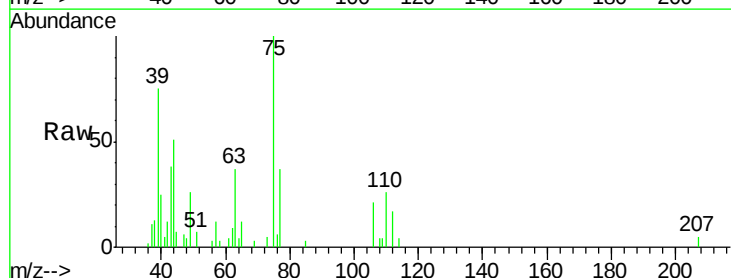
Acq: 26 Feb 2019 16:34

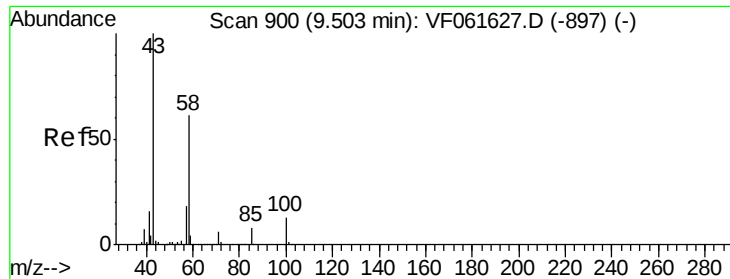
Tgt Ion: 63 Resp: 3861

Ion Ratio Lower Upper

63 100

106 55.9 24.6 36.8#





#59

2-Hexanone

Concen: 13.084 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 16422

Ion Ratio Lower Upper

43 100

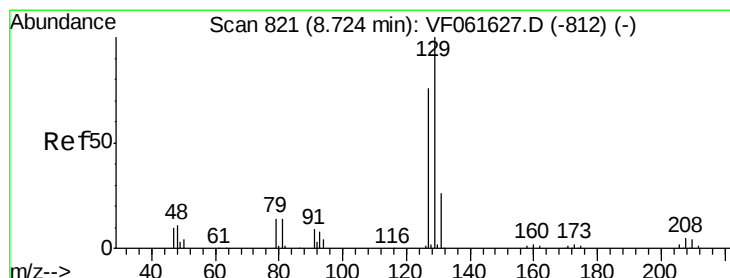
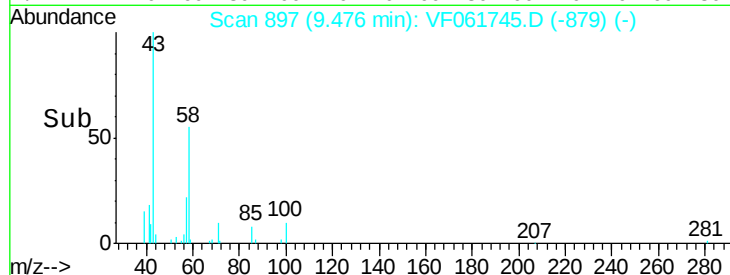
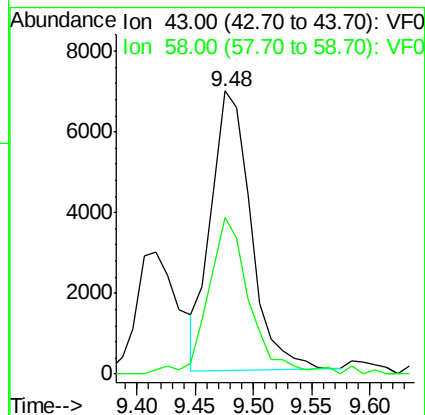
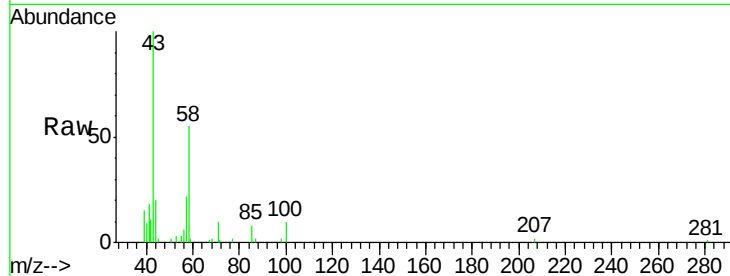
58 55.4 28.5 85.5

Manual Integrations

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#60

Dibromochloromethane

Concen: 2.268 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061745.D

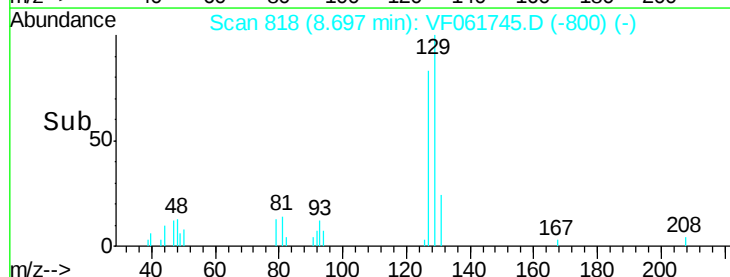
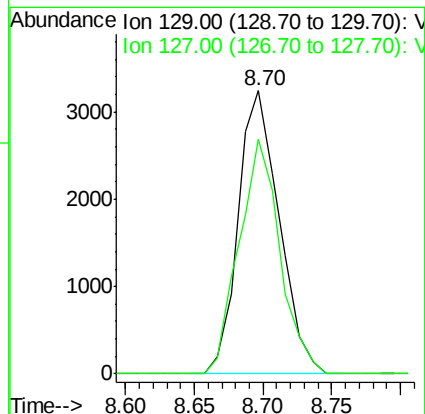
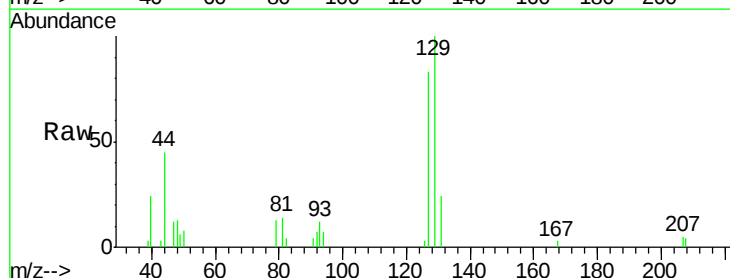
Acq: 26 Feb 2019 16:34

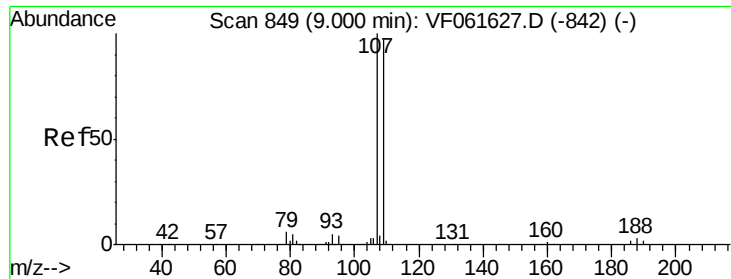
Tgt Ion: 129 Resp: 6705

Ion Ratio Lower Upper

129 100

127 83.1 37.8 113.4





#61

1,2-Dibromoethane

Concen: 2.627 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.04 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:107 Resp: 6052

Ion Ratio Lower Upper

107 100

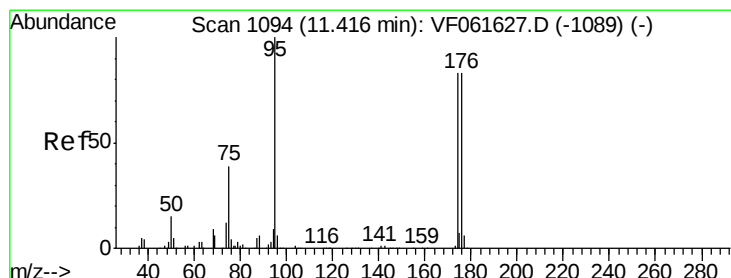
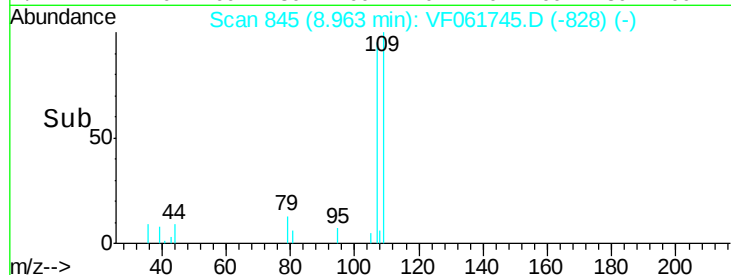
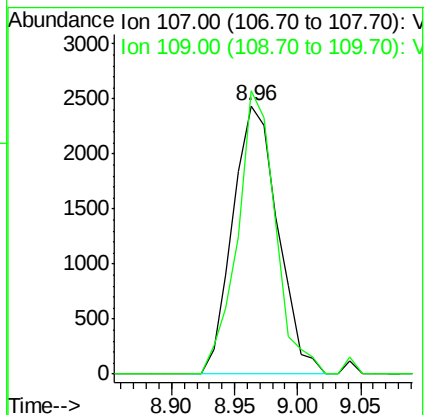
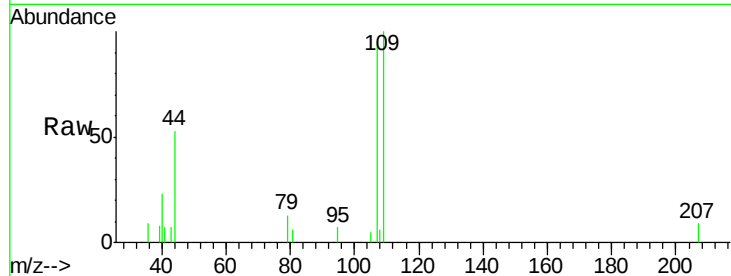
109 105.5 77.4 116.0

Manual Integrations

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MMDadoda

2/27/2019 3:19:33 PM



#62

4-Bromofluorobenzene

Concen: 55.181 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

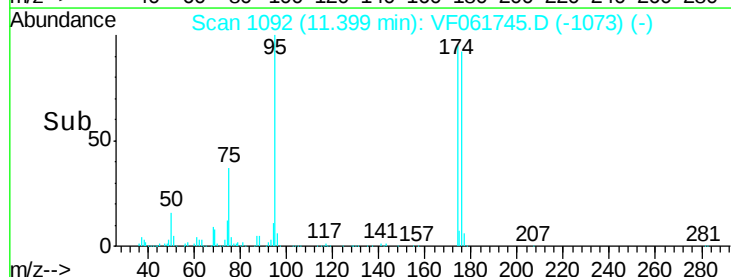
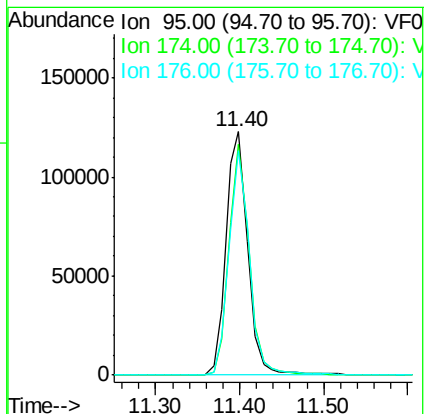
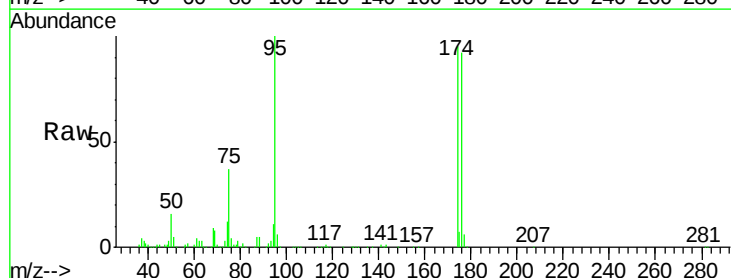
Tgt Ion: 95 Resp: 219305

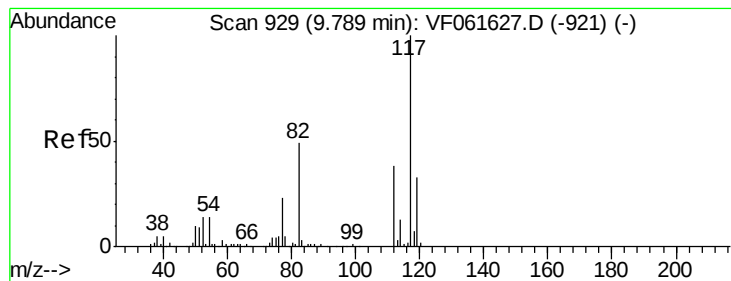
Ion Ratio Lower Upper

95 100

174 94.7 0.0 165.8

176 92.0 0.0 167.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

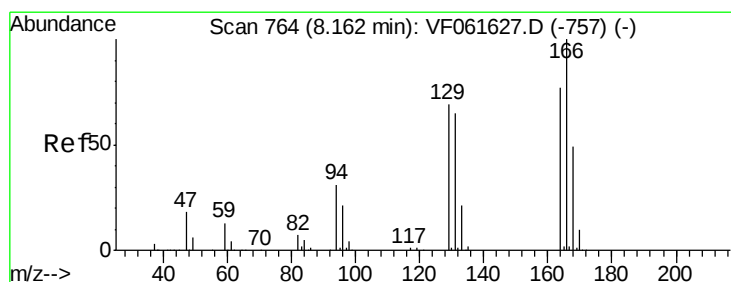
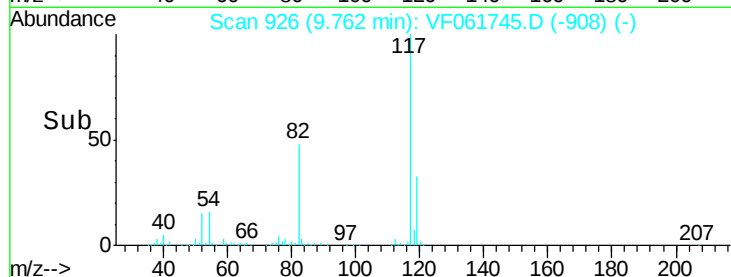
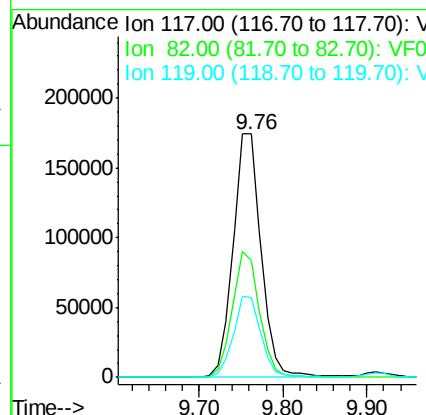
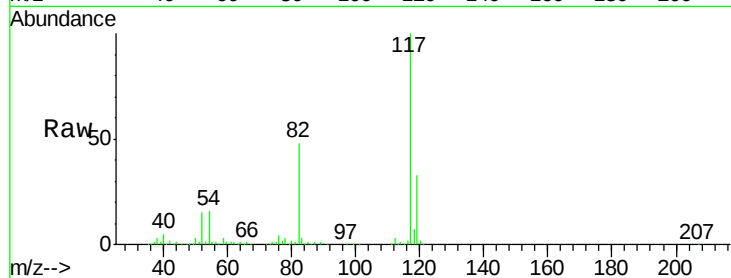
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	117	Resp:	404931
Ion Ratio	Lower	Upper	
117	100		
82	47.8	39.3	58.9
119	33.0	26.6	40.0

Manual Integrations
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#64

Tetrachloroethene

Concen: 2.620 ug/l

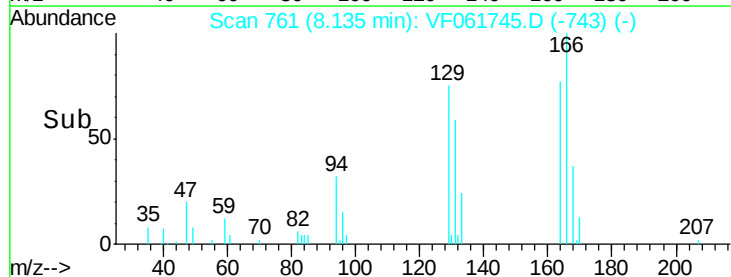
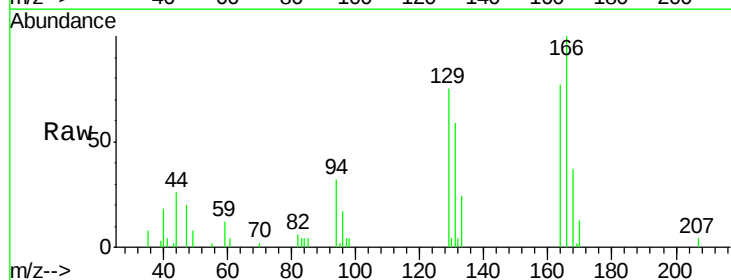
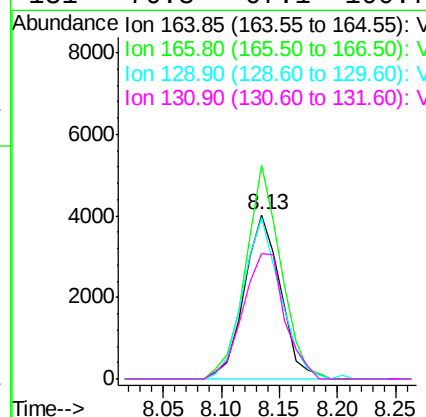
RT: 8.13 min Scan# 761

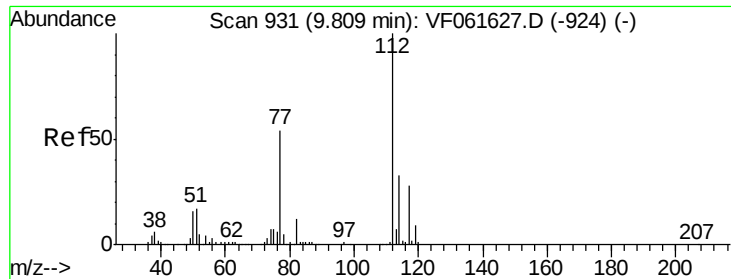
Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	164	Resp:	8671
Ion Ratio	Lower	Upper	
164	100		
166	130.4	103.9	155.9
129	98.4	71.3	106.9
131	76.3	67.1	100.7





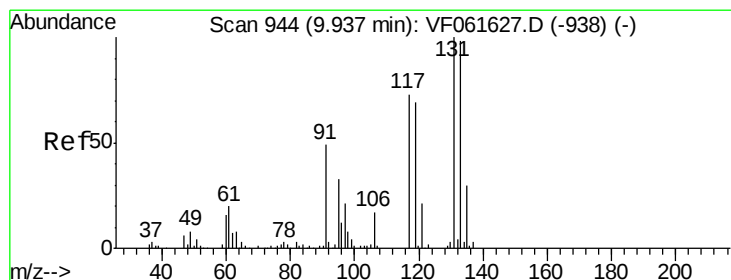
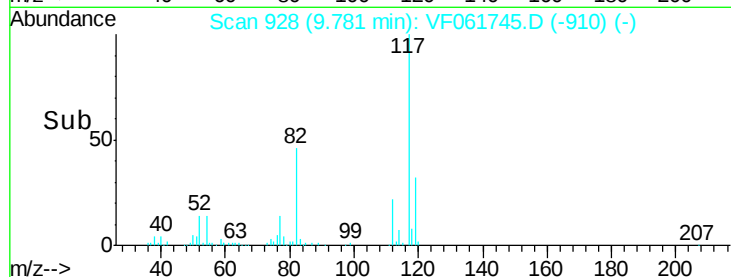
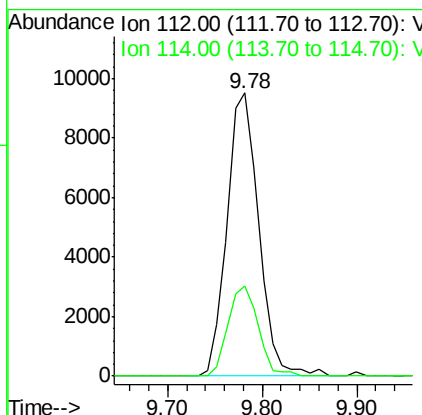
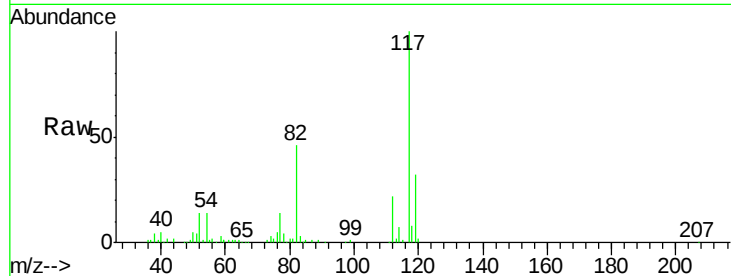
#65
Chlorobenzene
Concen: 2.694 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:112 Resp: 22133
Ion Ratio Lower Upper
112 100
114 31.7 26.2 39.2

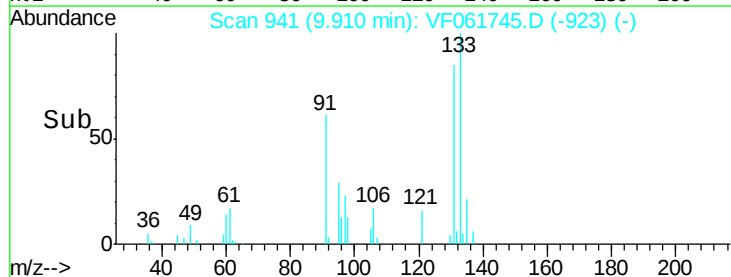
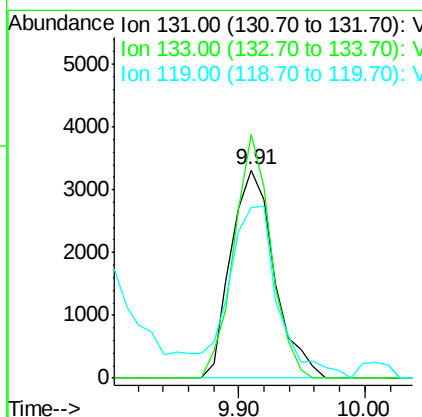
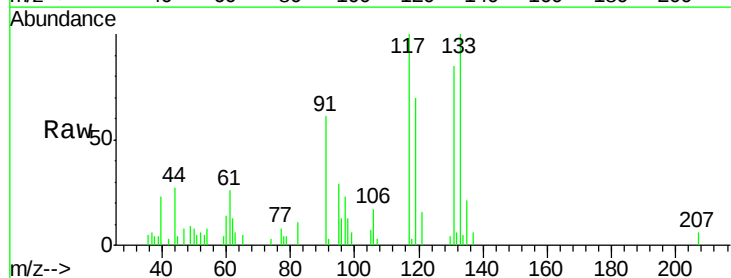
Manual Integrations
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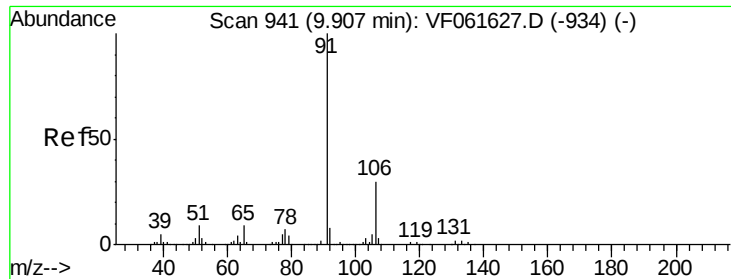
MMDadoda
2/27/2019 3:19:33 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 2.470 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion:131 Resp: 7952
Ion Ratio Lower Upper
131 100
133 117.1 48.9 146.6
119 81.8 34.8 104.3





#67

Ethyl Benzene

Concen: 2.614 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 35719

Ion Ratio Lower Upper

91 100

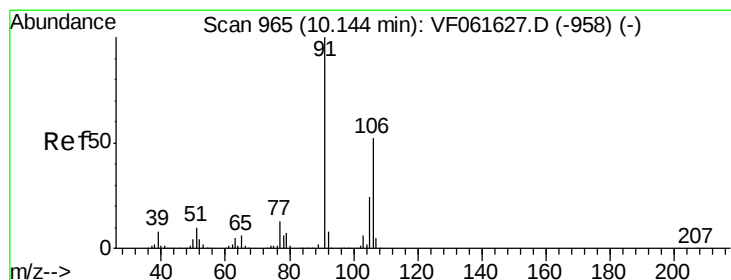
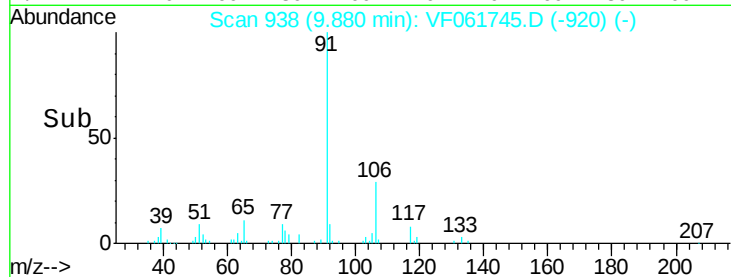
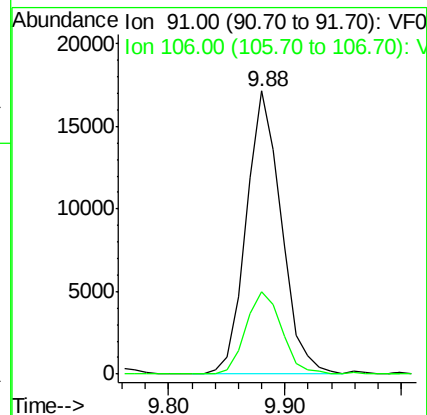
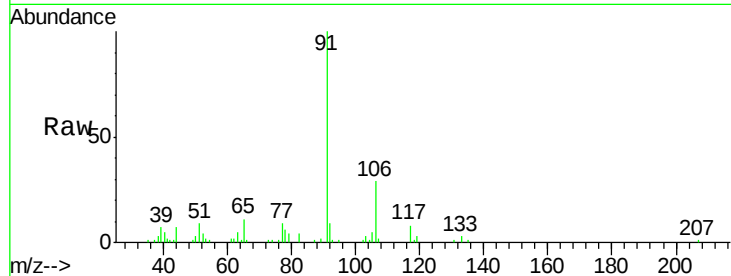
106 29.1 24.1 36.1

Manual Integrations

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2/27/2019 3:19:33 PM



#68

m/p-Xylenes

Concen: 5.492 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061745.D

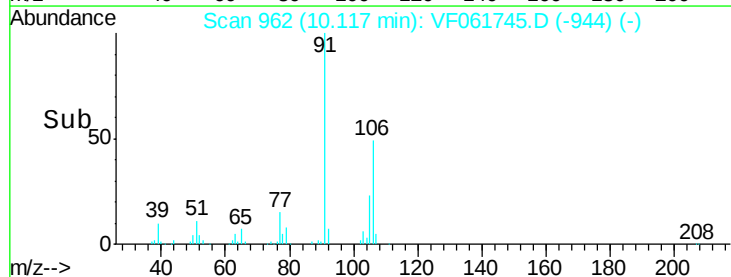
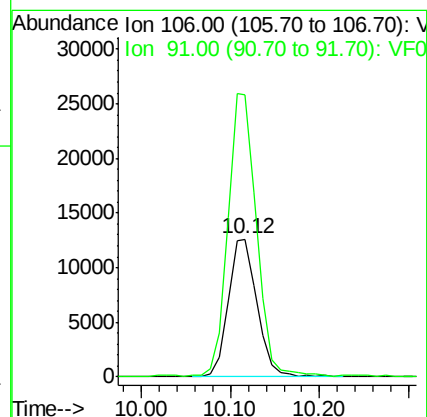
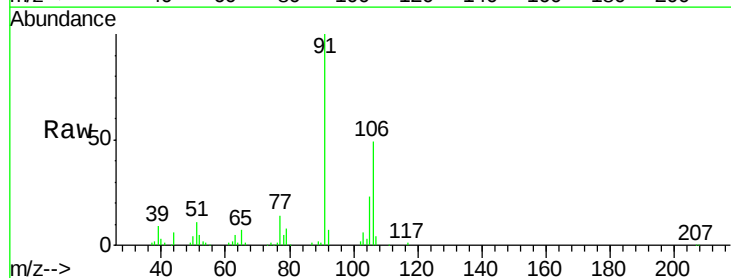
Acq: 26 Feb 2019 16:34

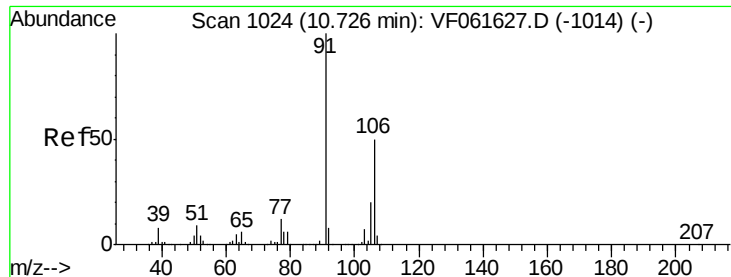
Tgt Ion: 106 Resp: 28724

Ion Ratio Lower Upper

106 100

91 204.2 153.0 229.6





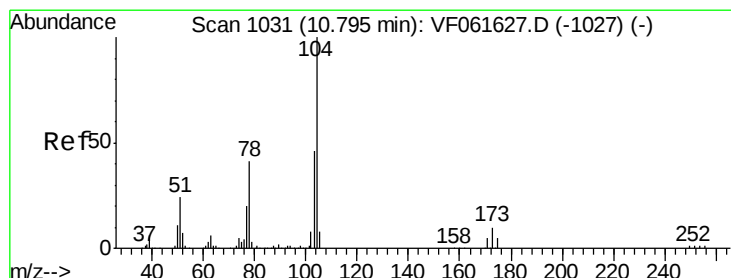
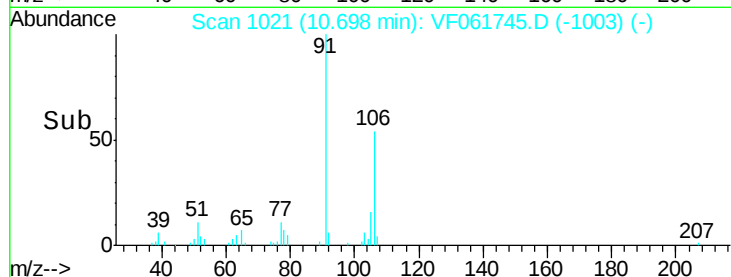
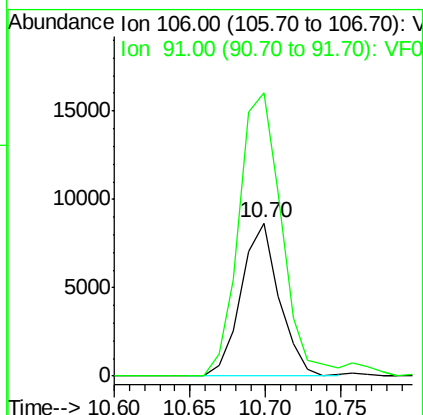
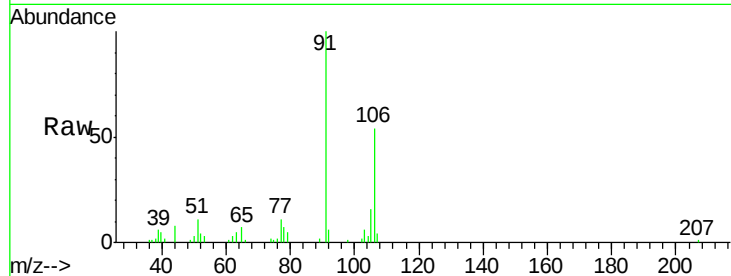
#69
o-Xylene
Concen: 2.727 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:106 Resp: 15220
Ion Ratio Lower Upper
106 100
91 184.6 100.1 300.1

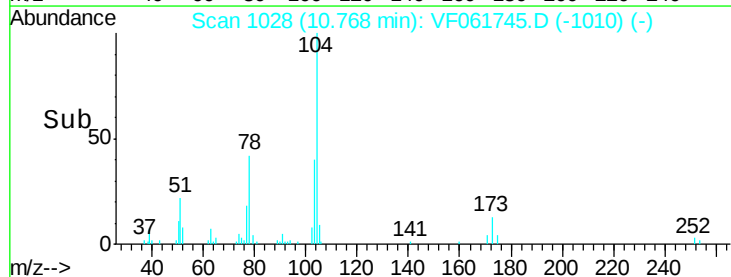
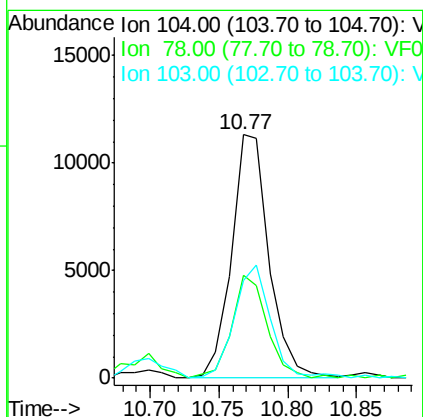
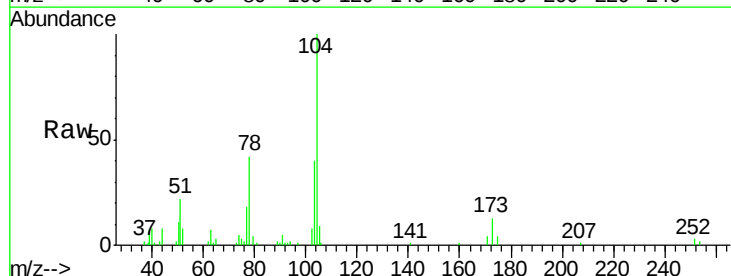
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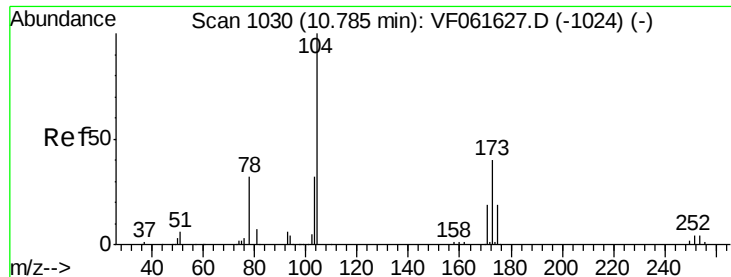
MMDadoda
2/27/2019 3:19:33 PM



#70
Styrene
Concen: 2.729 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion:104 Resp: 21543
Ion Ratio Lower Upper
104 100
78 42.1 33.2 49.8
103 39.9 37.2 55.8





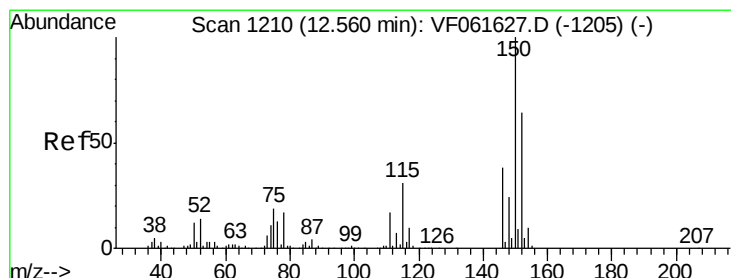
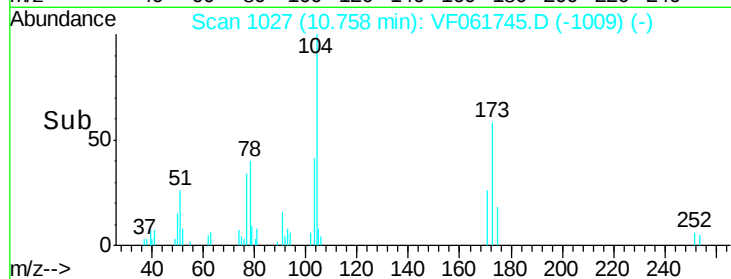
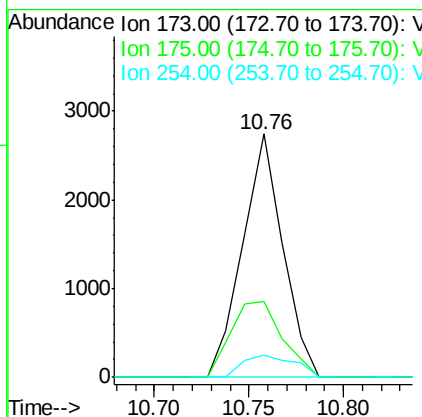
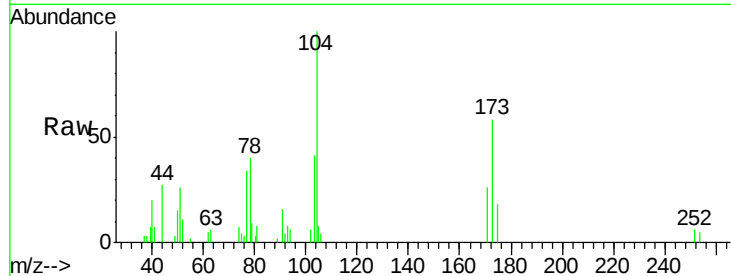
#71
Bromoform
Concen: 2.320 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	31.1	24.0	72.0
254	9.3	8.2	12.2

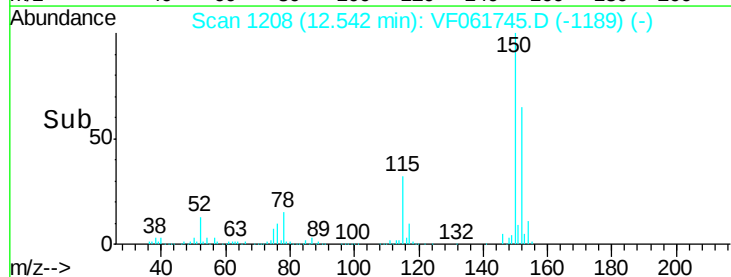
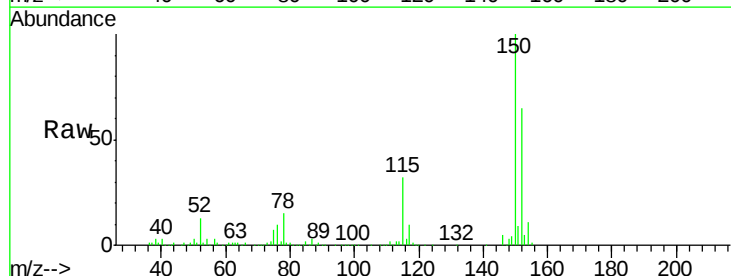
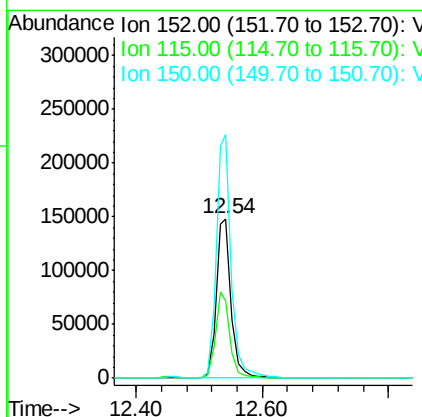
Manual Integrations
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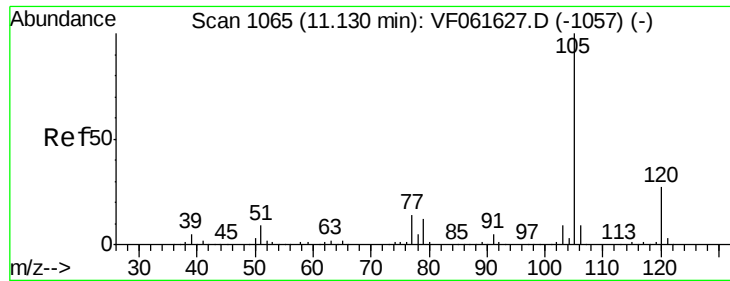
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	48.7	24.3	72.8
150	153.0	0.0	312.0





#73

Isopropylbenzene

Concen: 2.291 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 105 Resp: 40395

Ion Ratio Lower Upper

105 100

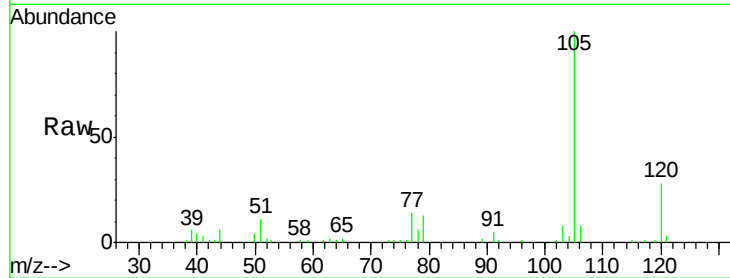
120 27.7 13.4 40.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

25000

20000

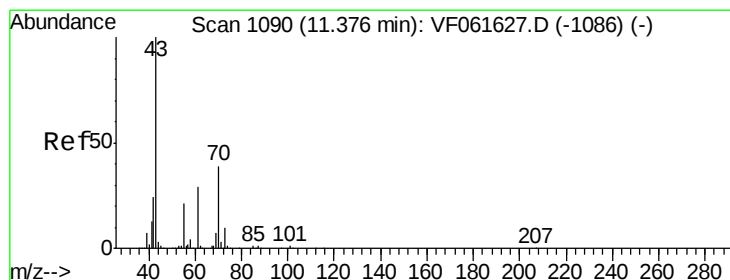
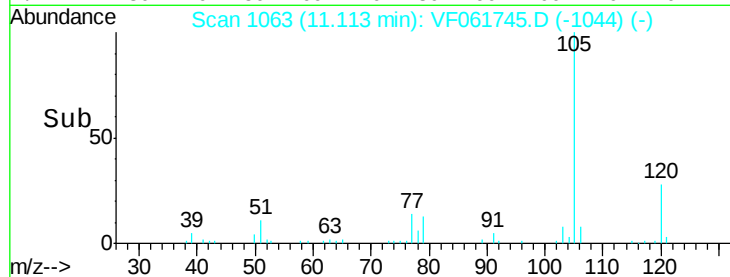
15000

10000

5000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 2.401 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion: 43 Resp: 10165

Ion Ratio Lower Upper

43 100

70 48.4 31.5 47.3#

55 22.2 16.7 25.1

61 25.9 23.0 34.6

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

8000

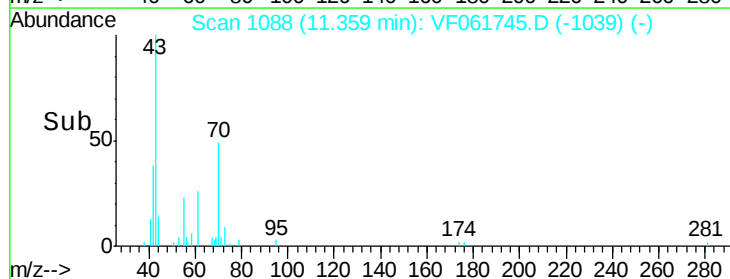
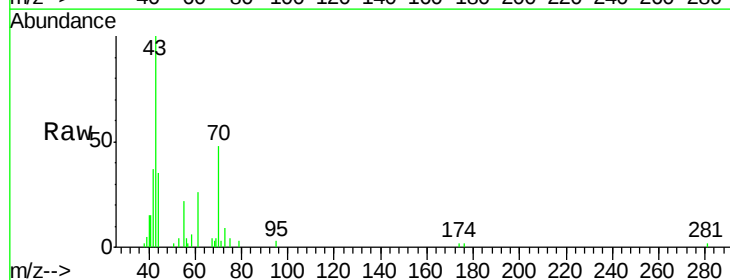
6000

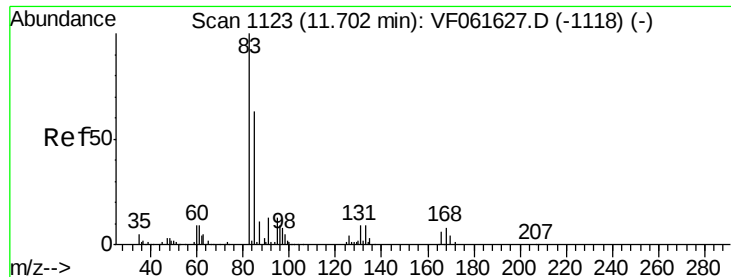
4000

2000

0

Time--> 11.30 11.35 11.40 11.45





#75

1,1,2,2-Tetrachloroethane

Concen: 2.082 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

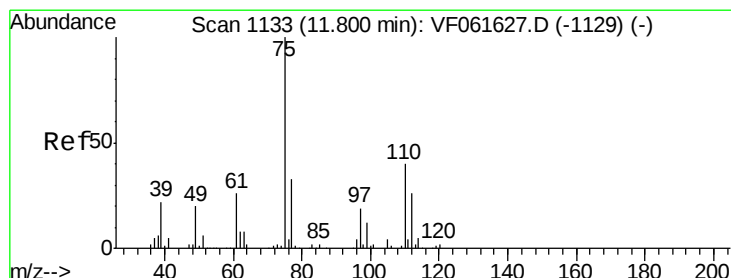
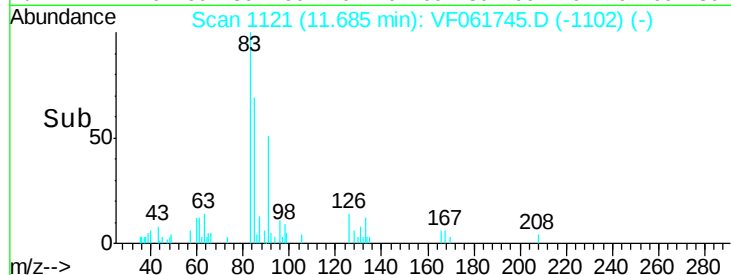
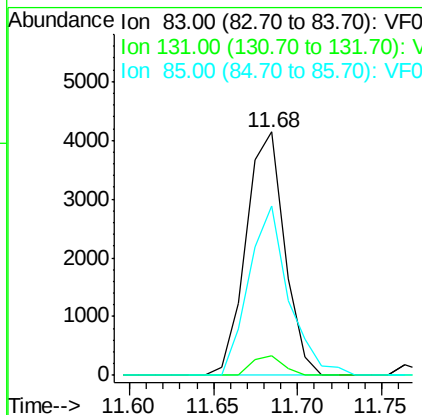
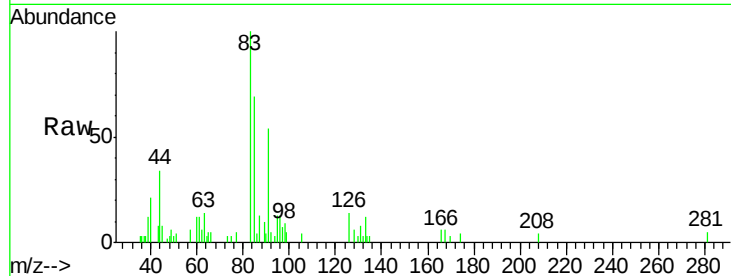
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	83	Resp:	6578
Ion	Ratio	Lower	Upper
83	100		
131	8.0	4.4	13.2
85	69.4	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.517 ug/l

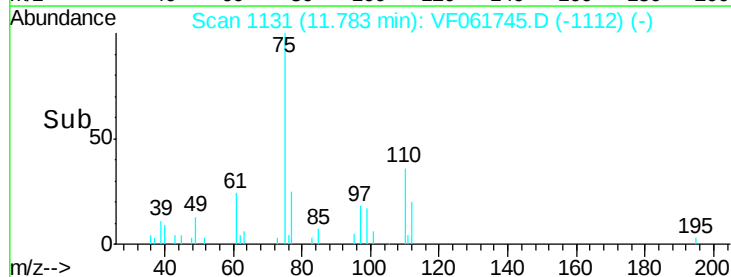
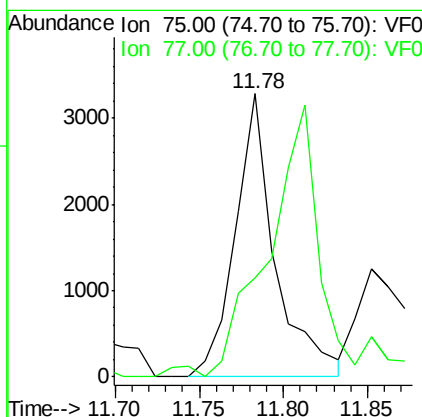
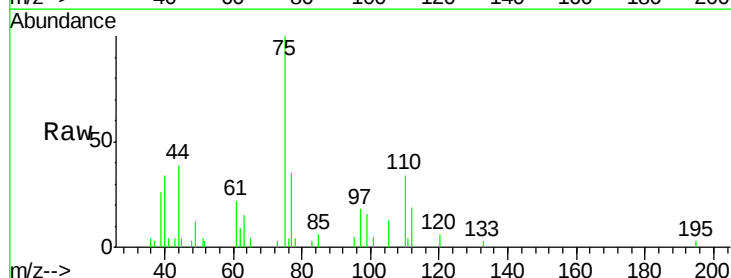
RT: 11.78 min Scan# 1131

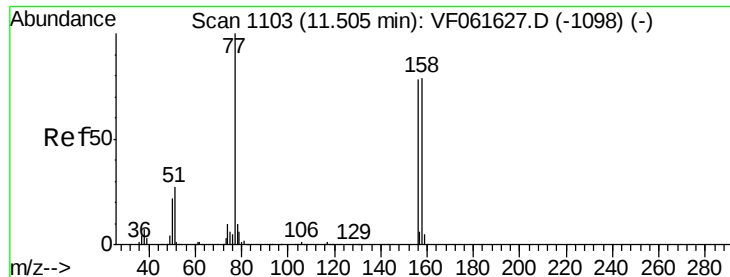
Delta R.T. -0.02 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Tgt Ion:	75	Resp:	5406
Ion	Ratio	Lower	Upper
75	100		
77	35.1	16.6	49.7





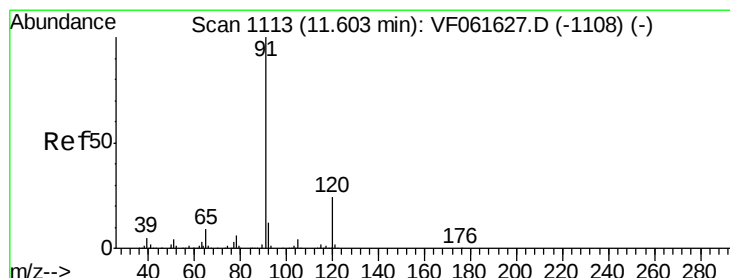
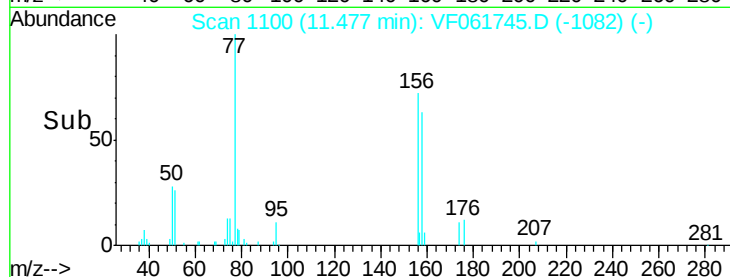
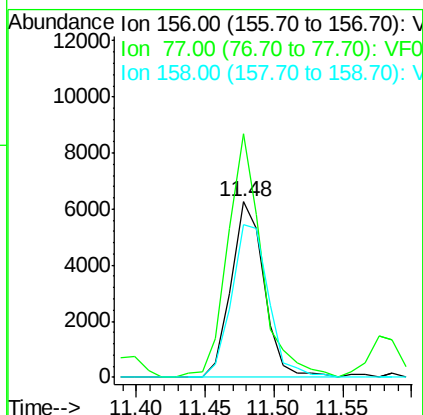
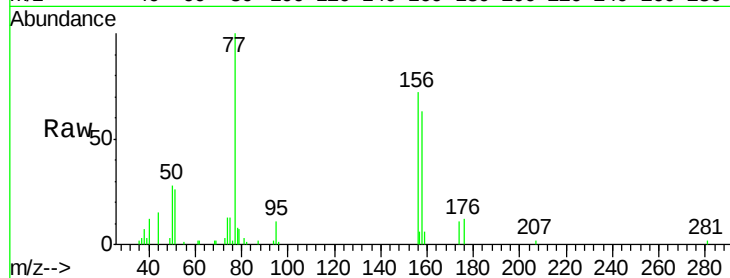
#77
Bromobenzene
Concen: 2.412 ug/l
RT: 11.48 min Scan# 1100
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	138.6	64.3	192.7
158	87.0	50.9	152.7

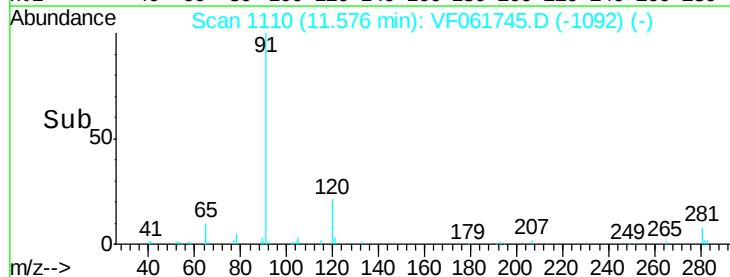
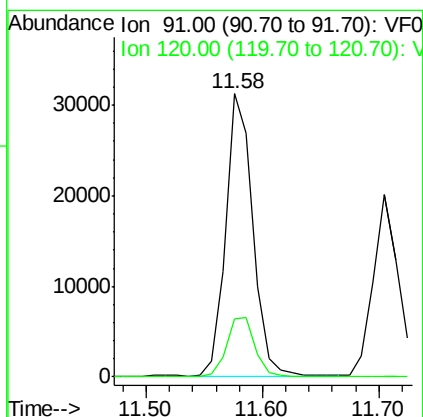
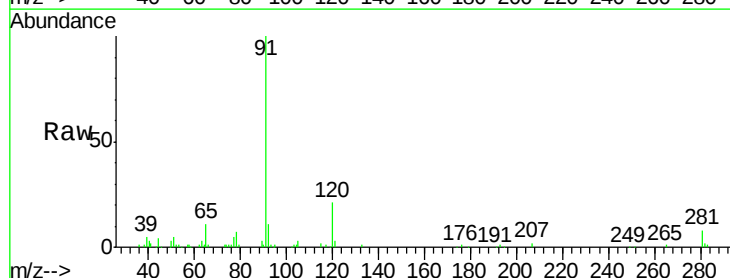
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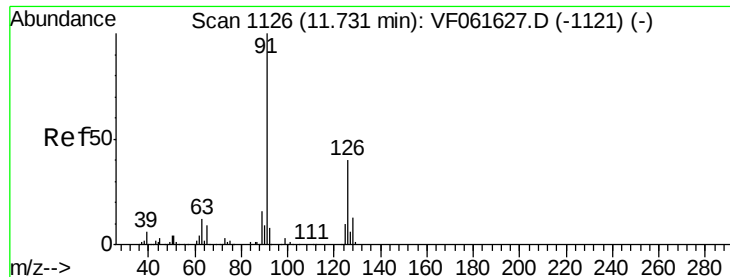
MMDadoda
2/27/2019 3:19:33 PM



#78
n-propylbenzene
Concen: 2.513 ug/l
RT: 11.58 min Scan# 1110
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.5	12.1	36.3





#79

2-Chlorotoluene

Concen: 2.623 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061745.D

Acq: 26 Feb 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 29730

Ion Ratio Lower Upper

91 100

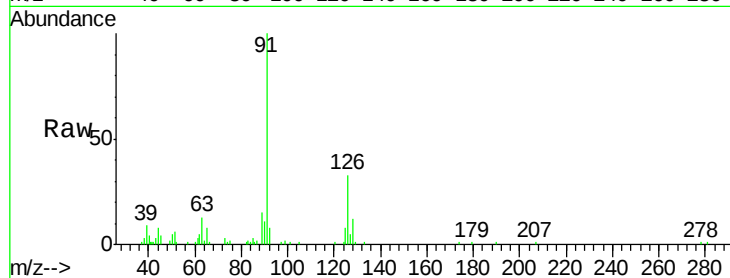
126 32.5 19.8 59.4

Manual Integrations

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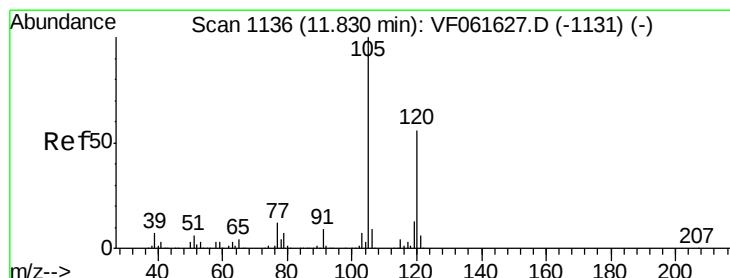
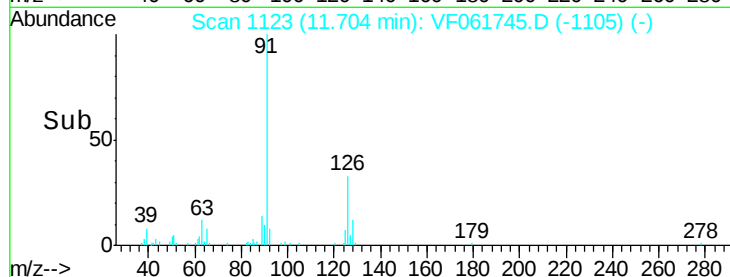
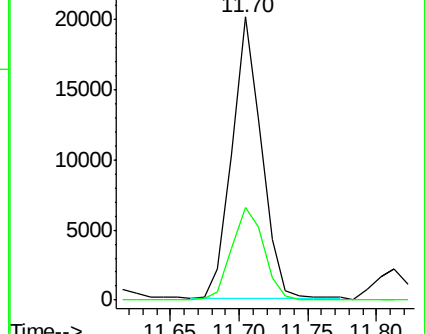
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.487 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061745.D

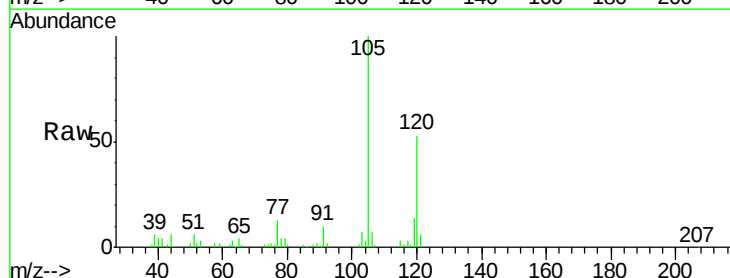
Acq: 26 Feb 2019 16:34

Tgt Ion: 105 Resp: 35054

Ion Ratio Lower Upper

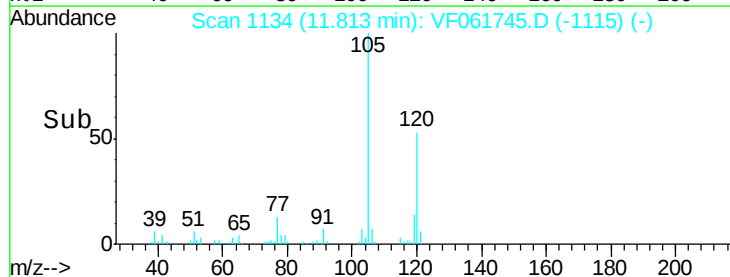
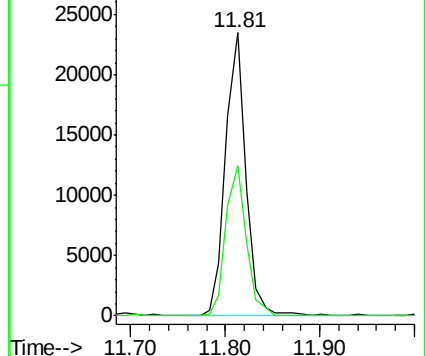
105 100

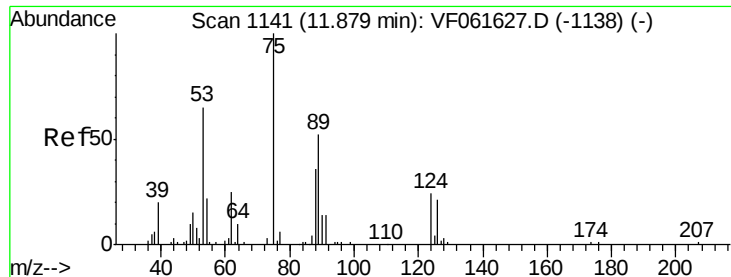
120 53.2 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





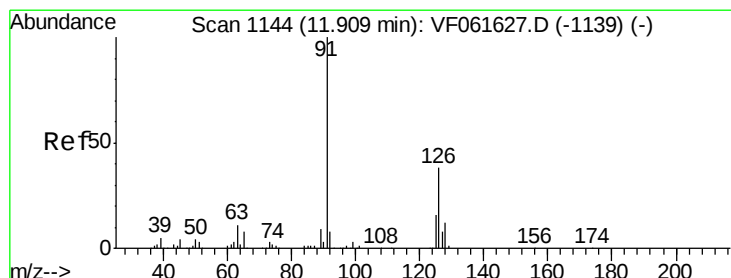
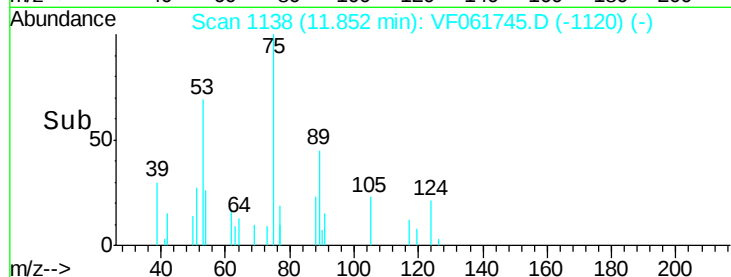
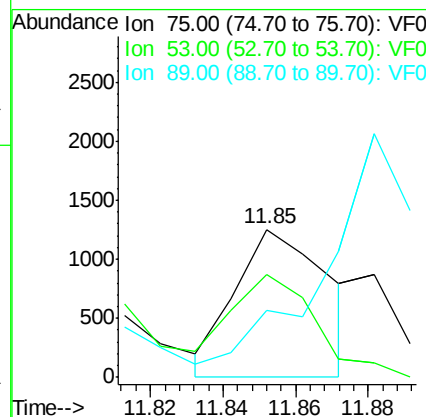
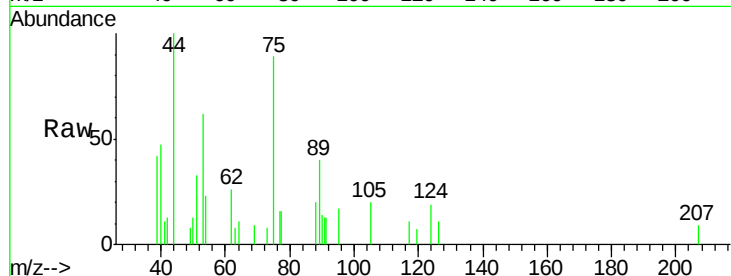
#81
trans-1,4-Dichloro-2-butene
Concen: 2.165 ug/l m
RT: 11.85 min Scan# 1138
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 75 Resp: 2229
Ion Ratio Lower Upper
75 100
53 69.4 53.7 80.5
89 45.4 41.6 62.4

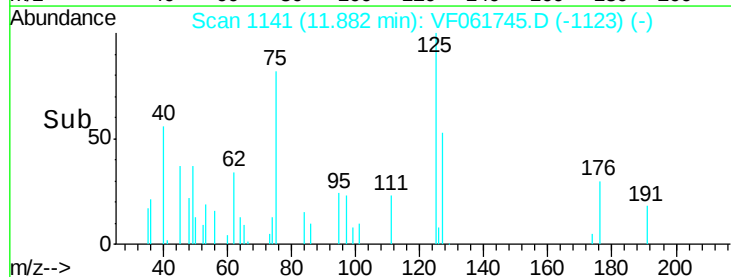
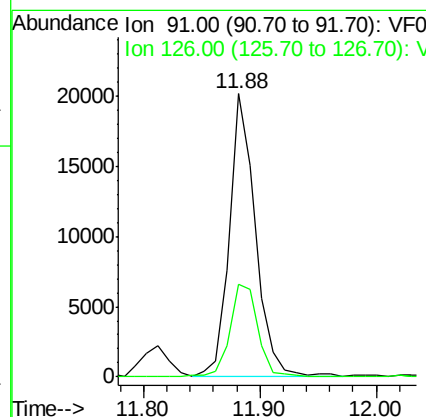
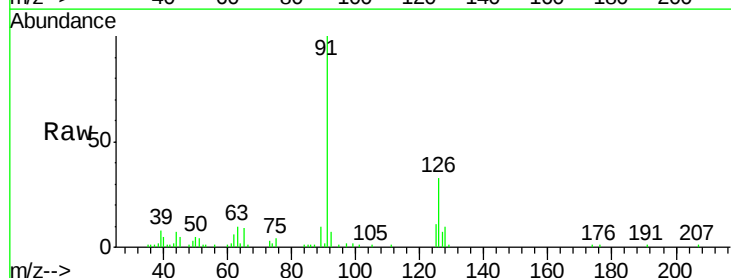
Manual Integrations
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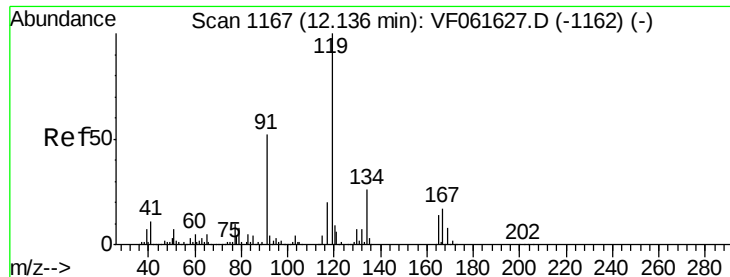
MMDadoda
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#82
4-Chlorotoluene
Concen: 2.670 ug/l
RT: 11.88 min Scan# 1141
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion: 91 Resp: 31414
Ion Ratio Lower Upper
91 100
126 32.8 19.1 57.1





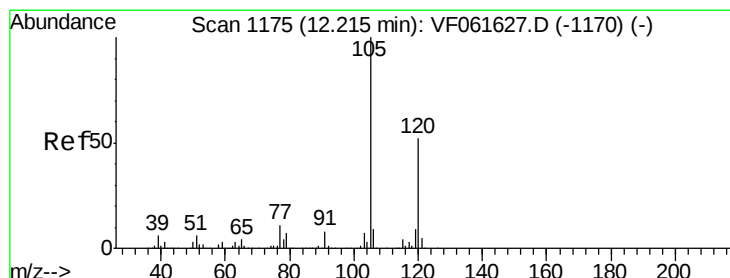
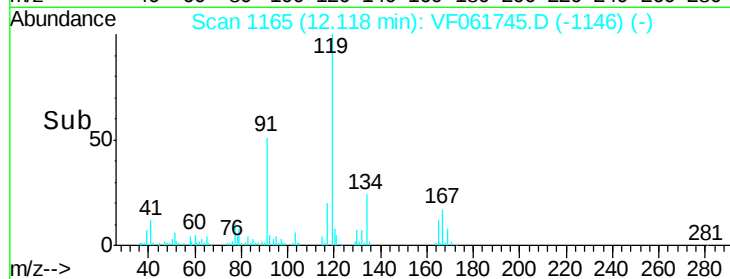
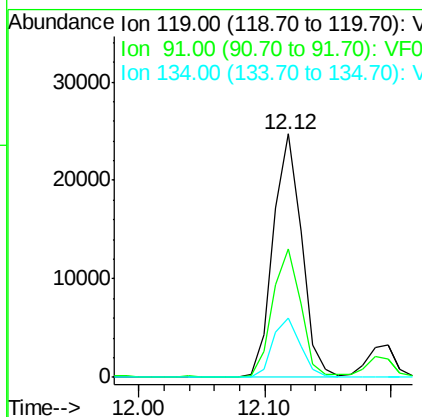
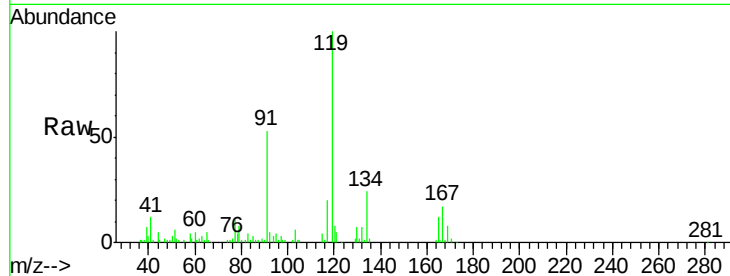
#83
tert-Butylbenzene
Concen: 2.496 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	52.7	26.3	78.8
134	24.3	12.9	38.7

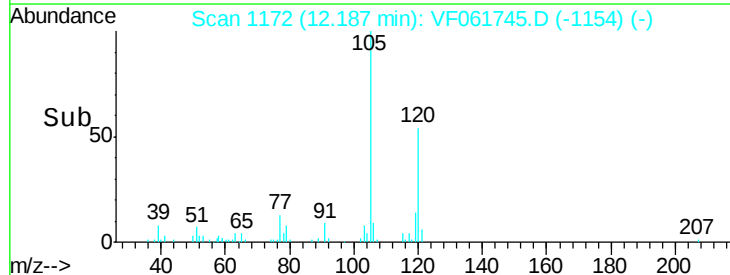
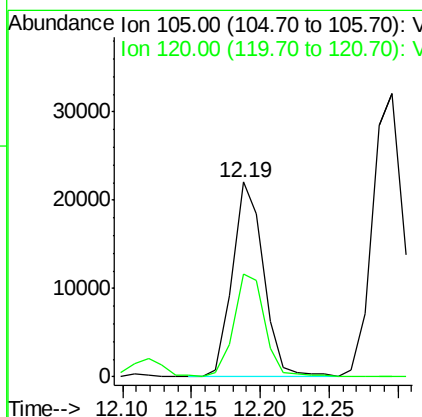
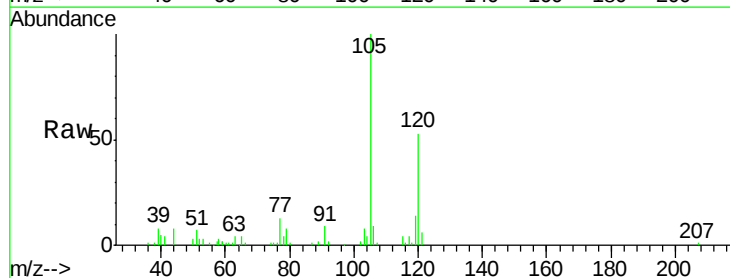
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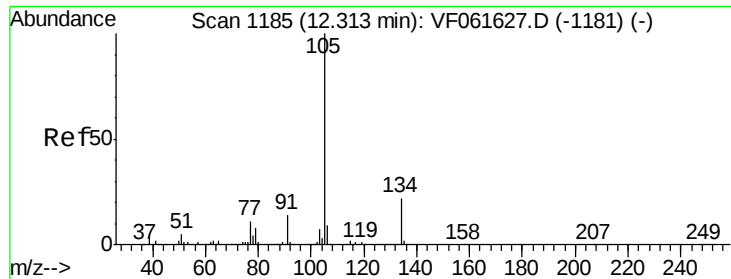
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 2.511 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.03 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.2	26.1	78.3





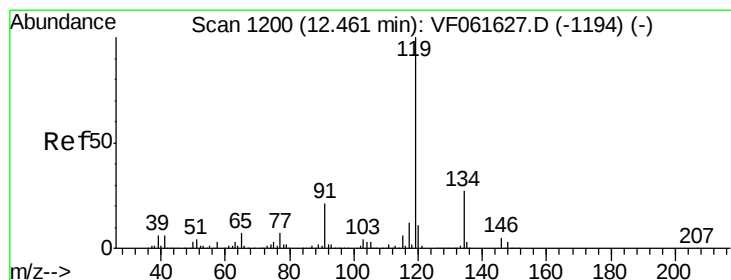
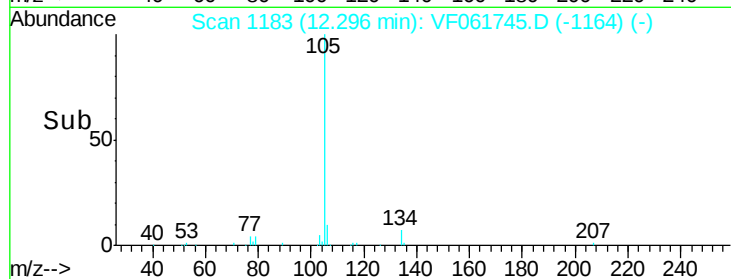
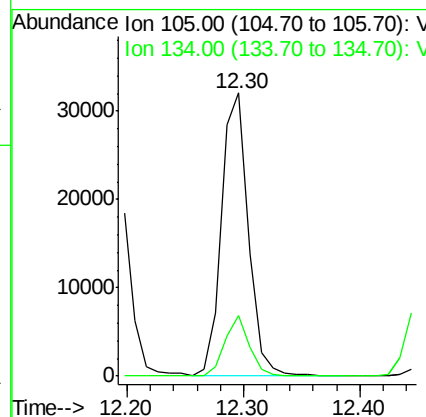
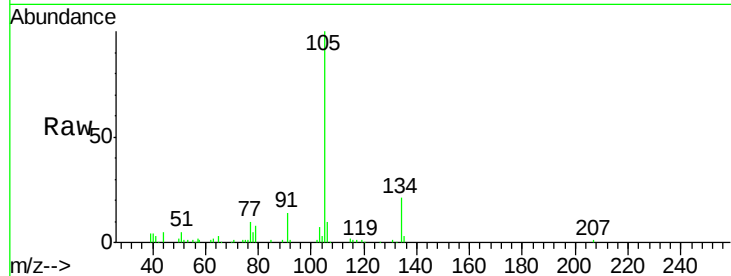
#85
 sec-Butylbenzene
 Concen: 2.543 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.2	10.8	32.4

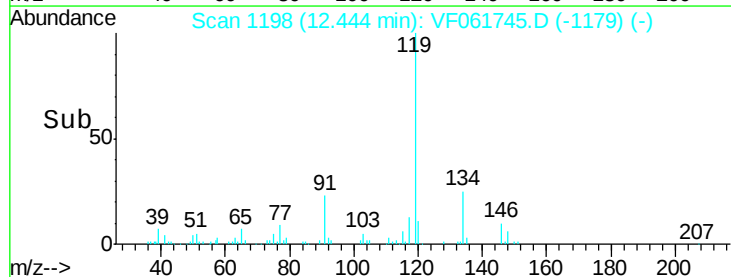
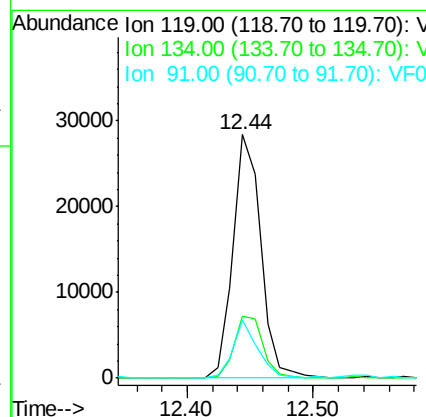
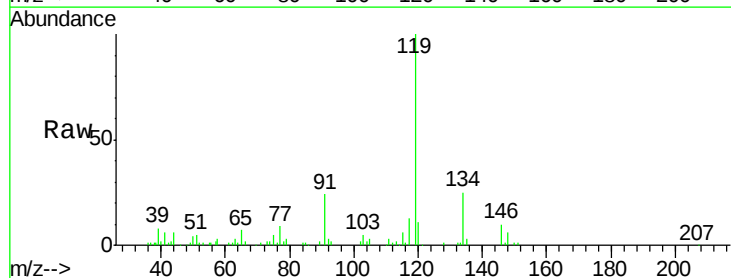
Manual Integrations
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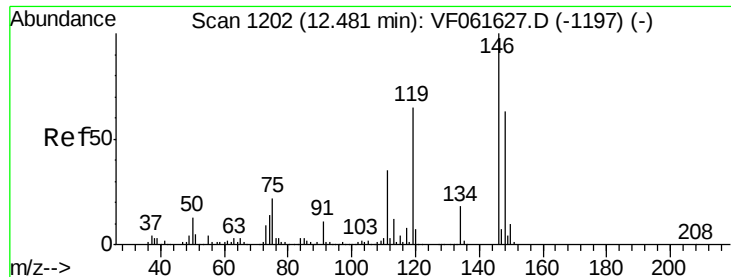
MMDadoda
 2/27/2019 3:19:33 PM



#86
 p-Isopropyltoluene
 Concen: 2.546 ug/l
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	13.7	41.1
91	23.7	10.8	32.4





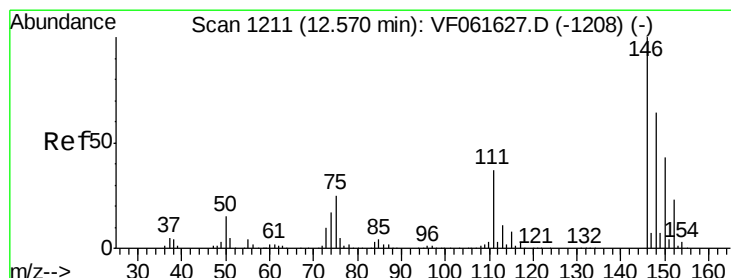
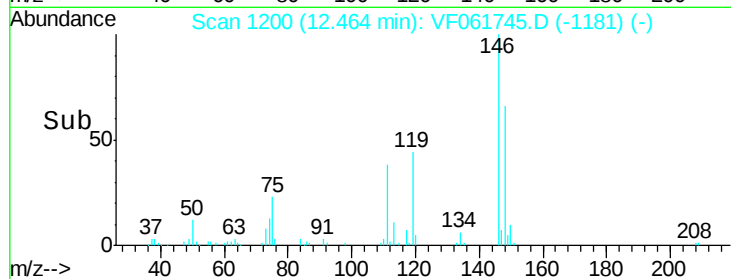
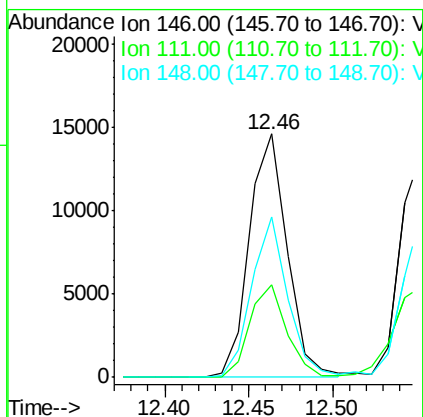
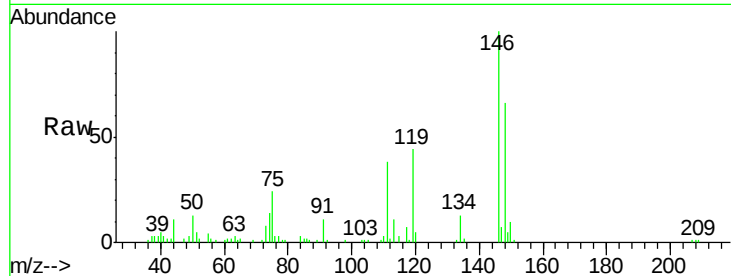
#87
 1,3-Dichlorobenzene
 Concen: 2.691 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	17.5	52.6
148	66.1	31.4	94.3

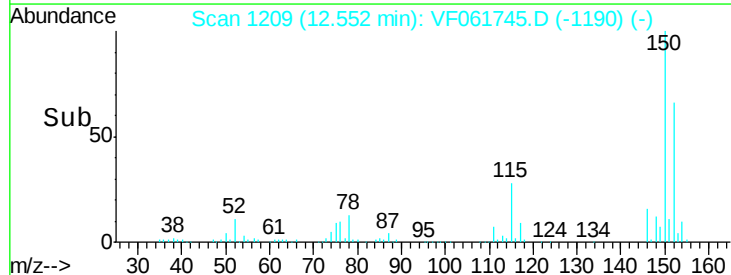
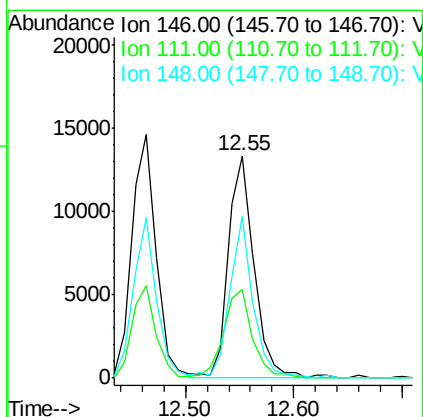
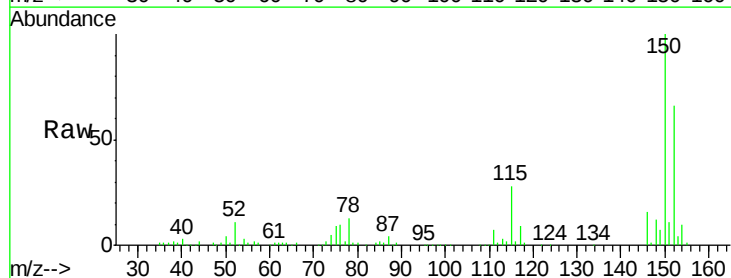
Manual Integrations
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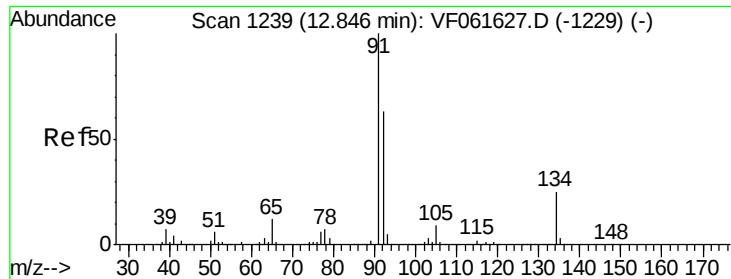
MMDadoda
 2/27/2019 3:19:33 PM



#88
 1,4-Dichlorobenzene
 Concen: 2.728 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.4	55.4
148	72.9	32.2	96.6





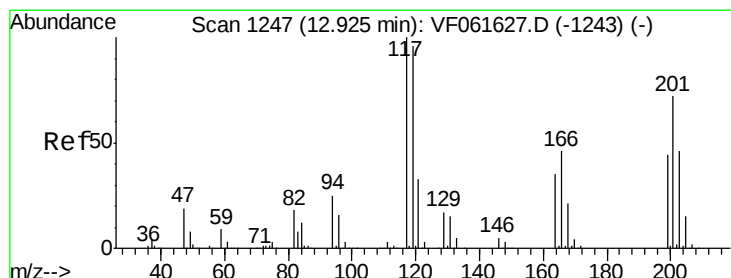
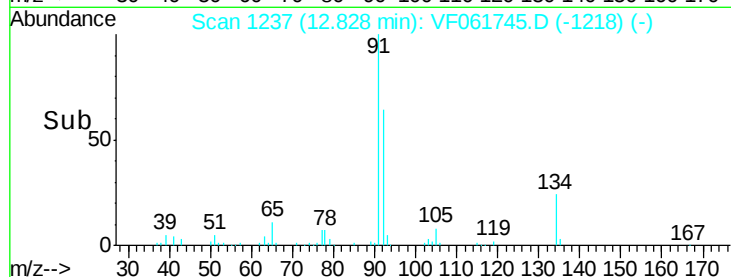
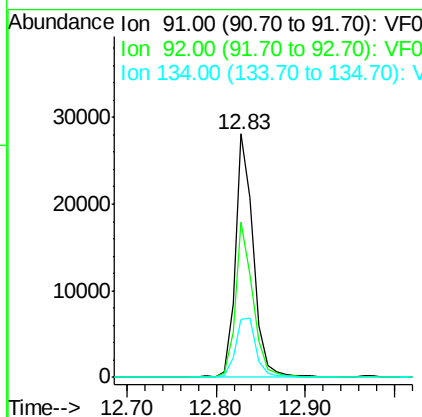
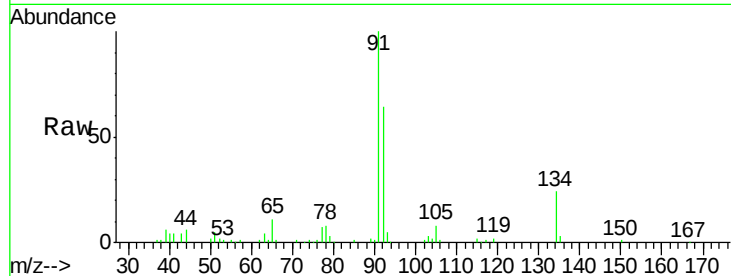
#89
n-Butylbenzene
Concen: 2.483 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.8	31.4	94.3
134	23.9	12.3	36.9

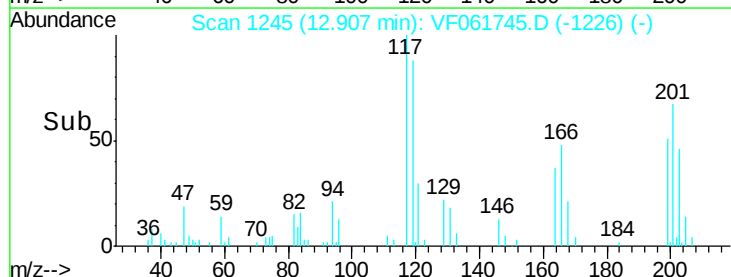
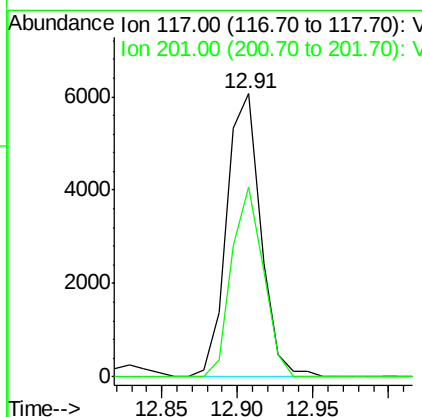
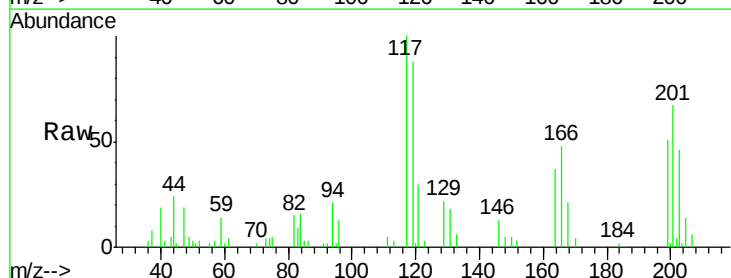
Manual Integrations
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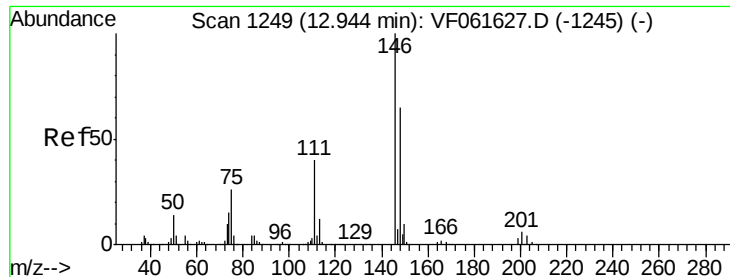
MMDadoda
2/27/2019 3:19:33 PM



#90
Hexachloroethane
Concen: 2.409 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	67.1	36.2	108.6





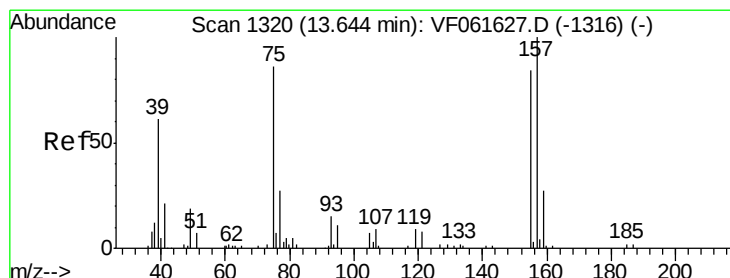
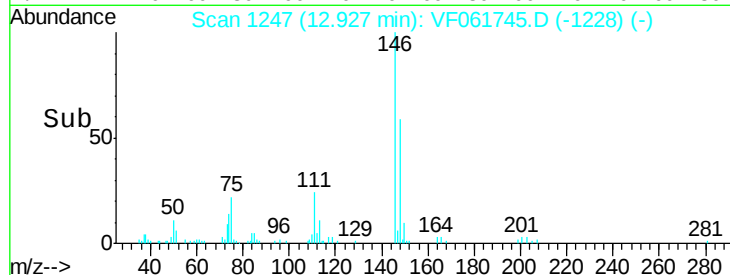
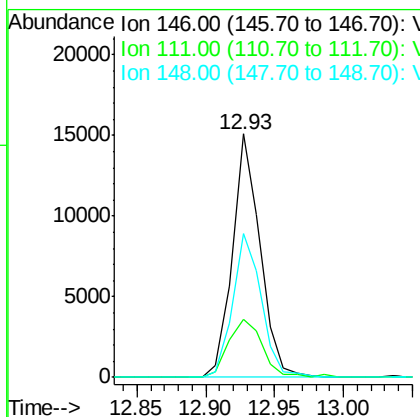
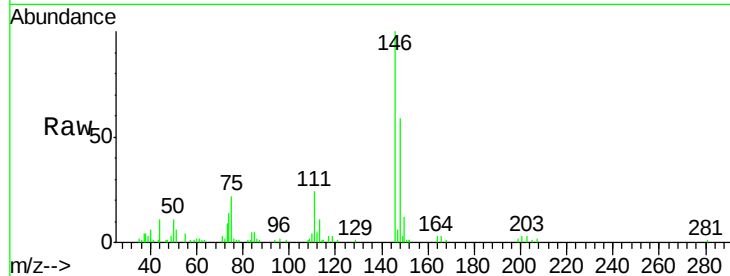
#91
 1,2-Dichlorobenzene
 Concen: 2.625 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	23.9	20.2	60.5
148	59.2	32.3	96.9

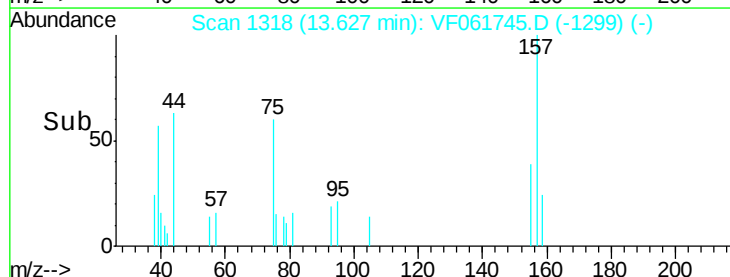
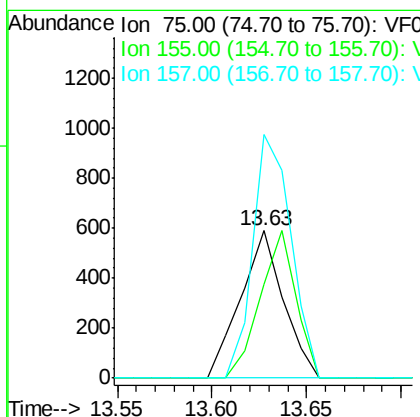
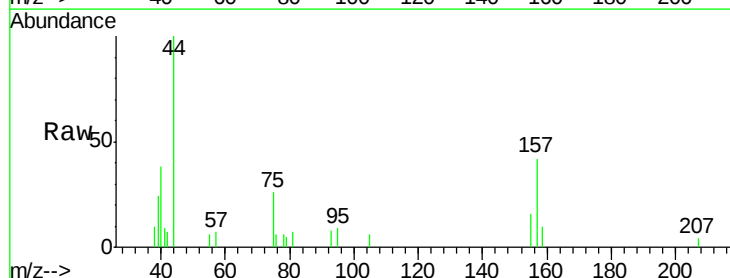
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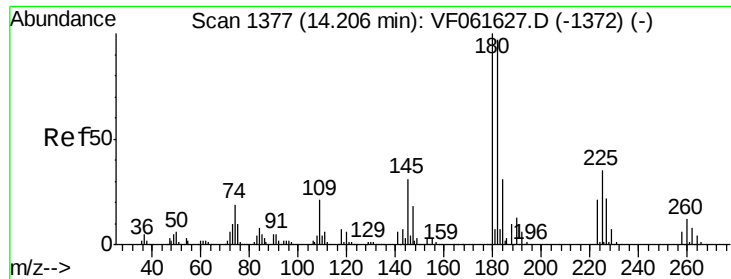
MMDadoda
 2/27/2019 3:19:33 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.847 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061745.D
 Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	63.8	48.9	146.8
157	165.4	58.3	174.8





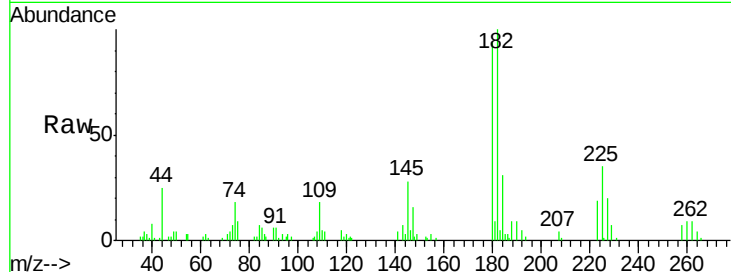
#93
1,2,4-Trichlorobenzene
Concen: 2.397 ug/l
RT: 14.19 min Scan# 1375
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

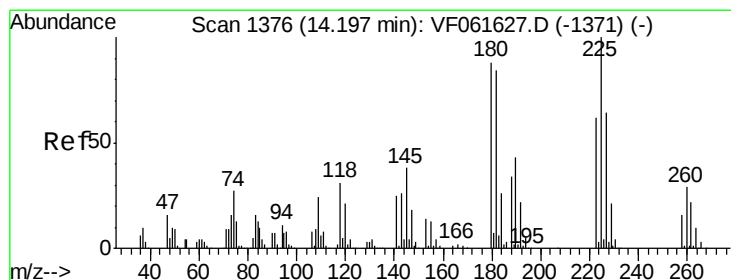
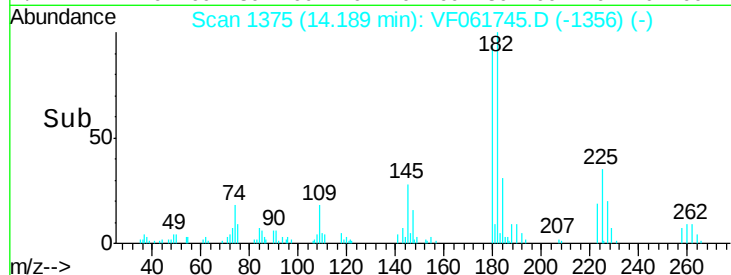
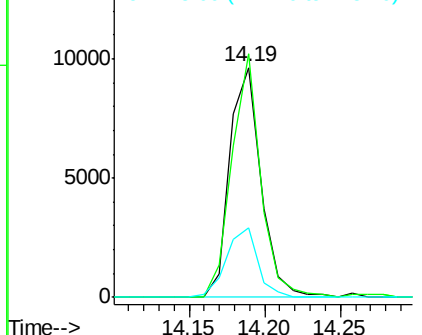
Tot Ion	Ratio	Resp	Lower	Upper
180	100	13877		
182	106.1	48.6	145.9	
145	30.0	15.3	45.9	

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2/27/2019 3:19:33 PM

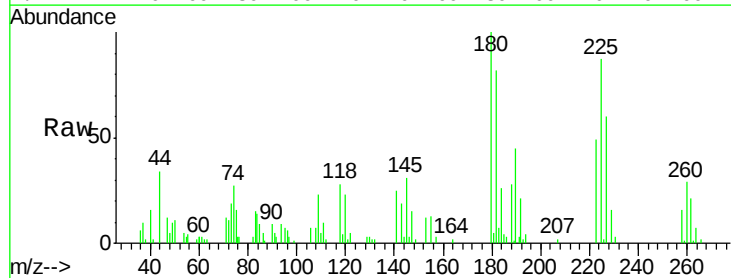


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

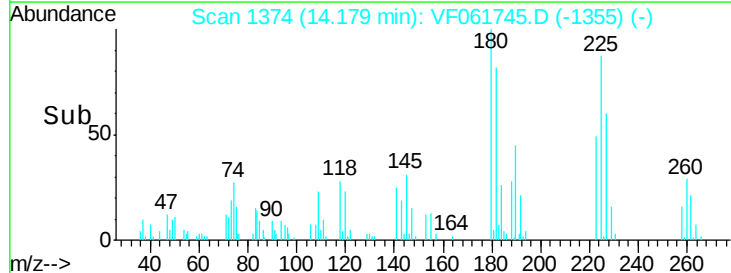
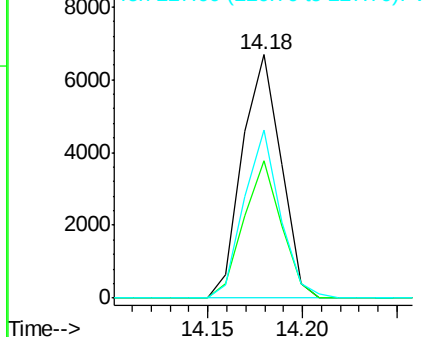


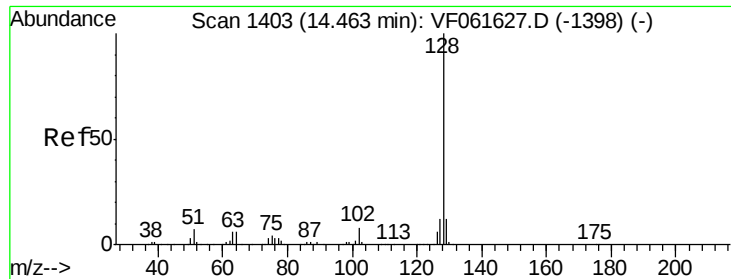
#94
Hexachlorobutadiene
Concen: 2.647 ug/l
RT: 14.18 min Scan# 1374
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	9465		
223	56.6	30.9	92.7	
227	69.0	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





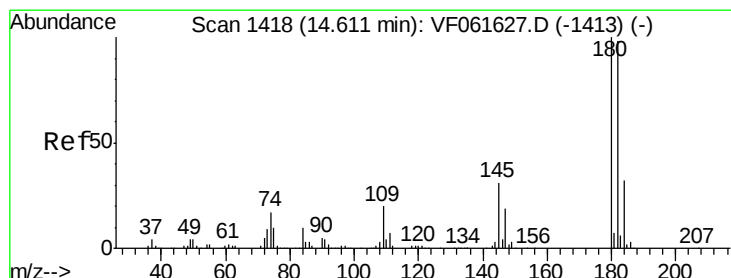
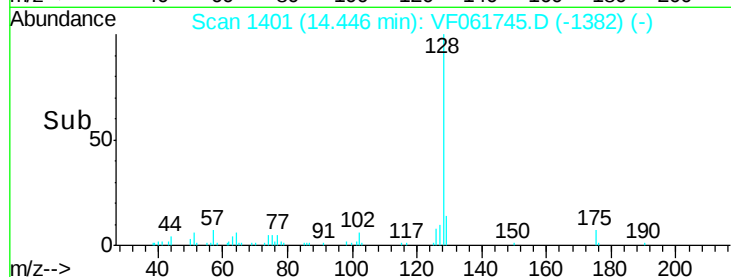
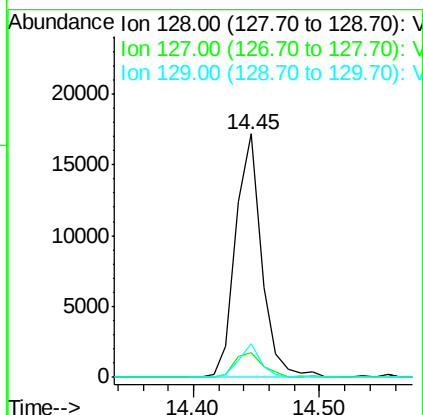
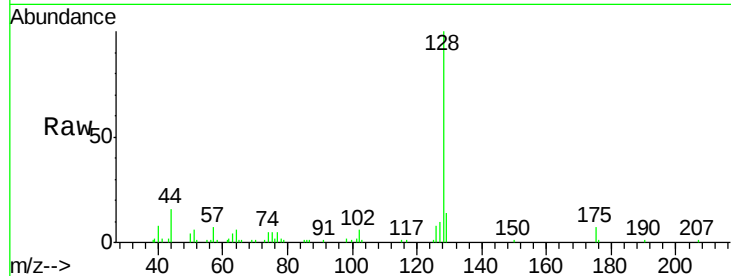
#95
Naphthalene
Concen: 2.412 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Instrument :
MSVOA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.1	9.8	14.6
129	14.0	9.4	14.2

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2/27/2019 3:19:33 PM



#96
1,2,3-Trichlorobenzene
Concen: 2.368 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061745.D
Acq: 26 Feb 2019 16:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.5	49.0	147.2
145	30.4	15.4	46.1

