

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\
 Data File : VF061296.D
 Acq On : 9 Jan 2019 12:50
 Operator : VA/AP
 Sample : VF0109SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/10/2019 2:02:40 PM

Quant Time: Jan 10 06:35:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	195005	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.62	114	351798	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	305370	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	150948	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.87	65	120863	55.68	ug/l	0.01
Spiked Amount	50.000		Recovery	=	111.36%	
35) Dibromofluoromethane	4.14	113	147267	54.71	ug/l	0.02
Spiked Amount	50.000		Recovery	=	109.42%	
50) Toluene-d8	7.57	98	426048	53.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.96%	
62) 4-Bromofluorobenzene	11.43	95	180657	51.94	ug/l	0.01
Spiked Amount	50.000		Recovery	=	103.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	84318	23.441	ug/l	99
3) Chloromethane	1.10	50	75427	23.531	ug/l	98
4) Vinyl Chloride	1.15	62	64020	22.362	ug/l	97
5) Bromomethane	1.32	94	38195	17.782	ug/l	92
6) Chloroethane	1.40	64	29327	20.978	ug/l	97
7) Trichlorofluoromethane	1.48	101	105800	21.800	ug/l	100
8) Diethyl Ether	1.63	74	14505	20.353	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	1.84	101	52947	20.661	ug/l	94
10) Methyl Iodide	1.91	142	83490m	20.795	ug/l	
11) Tert butyl alcohol	2.58	59	10243	117.866	ug/l #	91
12) 1,1-Dichloroethene	1.80	96	47385	23.124	ug/l	87
13) Acrolein	2.01	56	9329	84.706	ug/l	94
14) Allyl chloride	2.11	41	78550	20.971	ug/l	100
15) Acrylonitrile	2.95	53	32357	105.031	ug/l	91
16) Acetone	2.24	43	69492	137.631	ug/l	95
17) Carbon Disulfide	1.81	76	138717	20.495	ug/l #	94
18) Methyl Acetate	2.36	43	23204	23.358	ug/l #	93
19) Methyl tert-butyl Ether	2.44	73	84507	21.641	ug/l	100
20) Methylene Chloride	2.20	84	52042m	24.363	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	44678	20.575	ug/l	95
22) Diisopropyl ether	2.82	45	165254	22.805	ug/l	96
23) Vinyl Acetate	3.20	43	290702	137.175	ug/l	100
24) 1,1-Dichloroethane	2.89	63	92611	22.094	ug/l	98
25) 2-Butanone	4.36	43	110065	135.438	ug/l	97
26) 2,2-Dichloropropane	3.62	77	54652	19.511	ug/l	95
27) cis-1,2-Dichloroethene	3.50	96	72729	23.989	ug/l	92
28) Bromochloromethane	3.73	49	42620	23.061	ug/l	99
29) Tetrahydrofuran	4.10	42	42525	125.155	ug/l	98
30) Chloroform	3.88	83	124158	23.333	ug/l	98
31) Cyclohexane	3.71	56	100837	22.930	ug/l	96
32) 1,1,1-Trichloroethane	4.12	97	90567	21.071	ug/l	97
36) 1,1-Dichloropropene	4.30	75	92291	22.465	ug/l	96
37) Ethyl Acetate	4.14	43	40301	26.939	ug/l #	54
38) Carbon Tetrachloride	4.02	117	77609	19.946	ug/l	88

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 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	109676	21.336	ug/l	97
40) Benzene	4.65	78	214320	22.346	ug/l	97
41) Methacrylonitrile	4.78	41	18747	22.440	ug/l #	86
42) 1,2-Dichloroethane	4.97	62	69079	23.134	ug/l	97
43) Isopropyl Acetate	6.98	43	43326	21.936	ug/l #	98
44) Trichloroethene	5.53	130	65852	23.461	ug/l	88
45) 1,2-Dichloropropane	6.26	63	56701	23.248	ug/l	94
46) Dibromomethane	6.11	93	32935	21.993	ug/l #	86
47) Bromodichloromethane	6.41	83	82475	22.145	ug/l #	99
48) Methyl methacrylate	6.73	41	30955	24.145	ug/l	97
49) 1,4-Dioxane	6.72	88	4448	549.851	ug/l	96
51) 4-Methyl-2-Pentanone	8.28	43	166706	111.822	ug/l	99
52) Toluene	7.64	92	136656	22.167	ug/l	98
53) t-1,3-Dichloropropene	8.30	75	65498	22.394	ug/l	97
54) cis-1,3-Dichloropropene	7.32	75	84584	21.811	ug/l	100
55) 1,1,2-Trichloroethane	8.52	97	36676	21.260	ug/l	93
56) Ethyl methacrylate	8.64	69	44298	22.976	ug/l	94
57) 1,3-Dichloropropane	8.87	76	69513	22.769	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.31	63	10046	122.271	ug/l #	90
59) 2-Hexanone	9.51	43	127094	120.335	ug/l	98
60) Dibromochloromethane	8.74	129	49840	21.697	ug/l	94
61) 1,2-Dibromoethane	9.00	107	38106	21.670	ug/l	98
64) Tetrachloroethene	8.17	164	54203	24.379	ug/l	91
65) Chlorobenzene	9.82	112	142042	23.035	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.95	131	57495	22.850	ug/l	95
67) Ethyl Benzene	9.92	91	277021	23.300	ug/l	99
68) m/p-Xylenes	10.16	106	198993	47.981	ug/l	99
69) o-Xylene	10.73	106	110084	23.762	ug/l	88
70) Styrene	10.81	104	142979	23.167	ug/l	94
71) Bromoform	10.79	173	25290	24.594	ug/l #	87
73) Isopropylbenzene	11.14	105	312154	23.501	ug/l	97
74) N-amyl acetate	11.39	43	78551	26.016	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	49505	23.506	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	35585	23.038	ug/l	95
77) Bromobenzene	11.51	156	62102	23.501	ug/l	93
78) n-propylbenzene	11.61	91	391279	24.707	ug/l	99
79) 2-Chlorotoluene	11.73	91	205964	23.343	ug/l	100
80) 1,3,5-Trimethylbenzene	11.83	105	252153	23.858	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.88	75	15635m	23.163	ug/l	
82) 4-Chlorotoluene	11.91	91	213232	23.783	ug/l	96
83) tert-Butylbenzene	12.15	119	267081	25.364	ug/l	98
84) 1,2,4-Trimethylbenzene	12.22	105	246342	23.476	ug/l	95
85) sec-Butylbenzene	12.32	105	345792	23.063	ug/l	94
86) p-Isopropyltoluene	12.47	119	301059	24.687	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	125216	24.265	ug/l	99
88) 1,4-Dichlorobenzene	12.58	146	116930	23.569	ug/l	92
89) n-Butylbenzene	12.86	91	309280	24.683	ug/l	95
90) Hexachloroethane	12.93	117	70151	25.147	ug/l	94
91) 1,2-Dichlorobenzene	12.96	146	120782	24.521	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.66	75	8798	24.724	ug/l	82

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ClientSampleId :
VF0109SBSD01

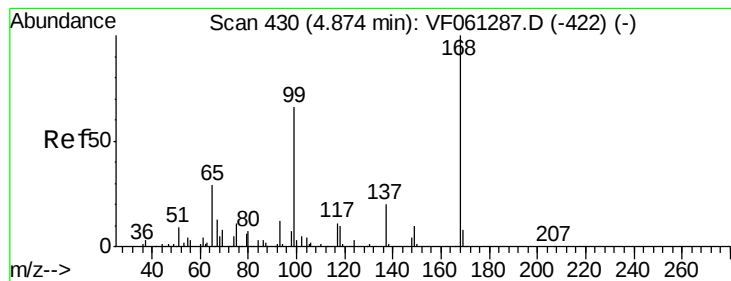
Manual Integrations
APPROVED

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	86356	25.477	ug/l	97
94) Hexachlorobutadiene	14.20	225	54556	25.002	ug/l	99
95) Naphthalene	14.47	128	148126	23.190	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	72846	22.815	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion:168 Resp: 195005

Ion Ratio Lower Upper

168 100

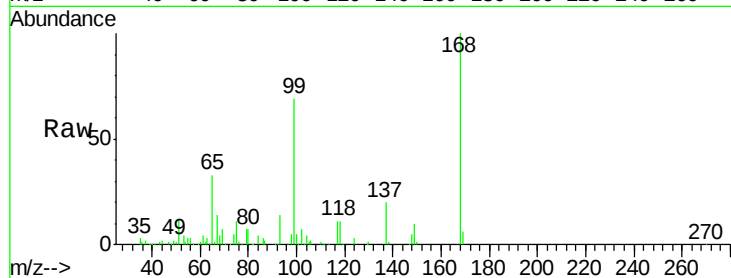
99 69.4 52.7 79.1

Manual Integrations

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1/10/2019 2:02:40 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

60000

40000

20000

0

4.89

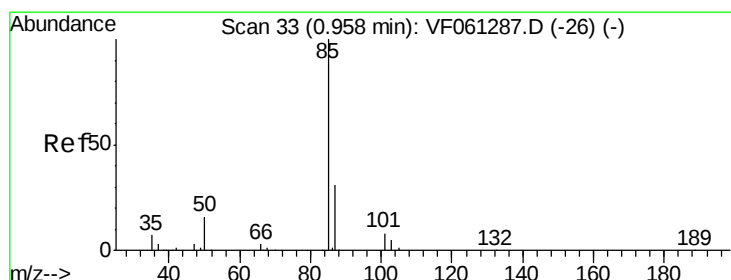
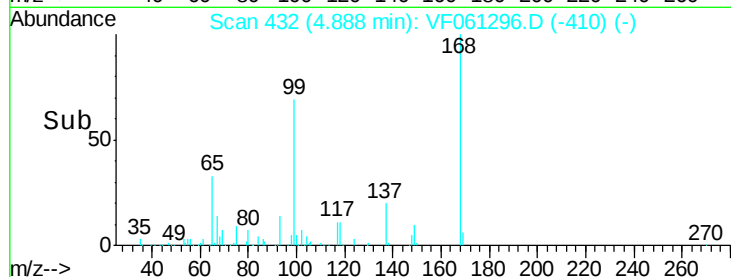
4.80

4.90

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 23.441 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061296.D

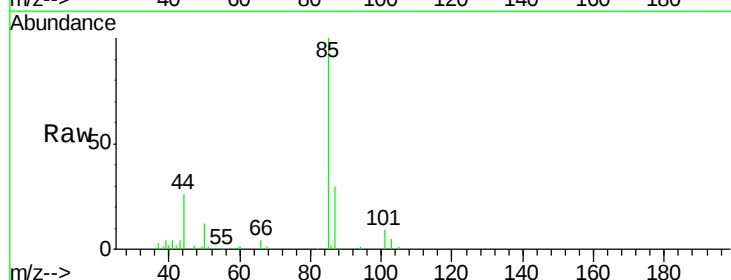
Acq: 9 Jan 2019 12:50

Tgt Ion: 85 Resp: 84318

Ion Ratio Lower Upper

85 100

87 30.2 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

30000

25000

20000

15000

10000

5000

0

0.96

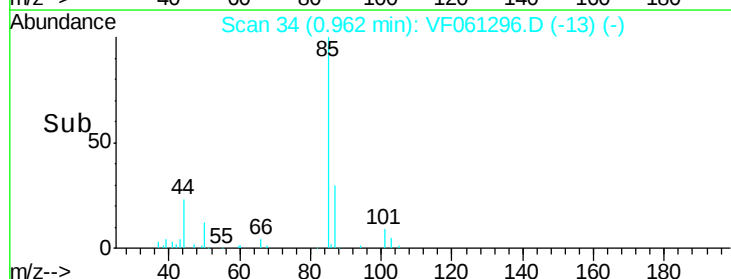
0.80

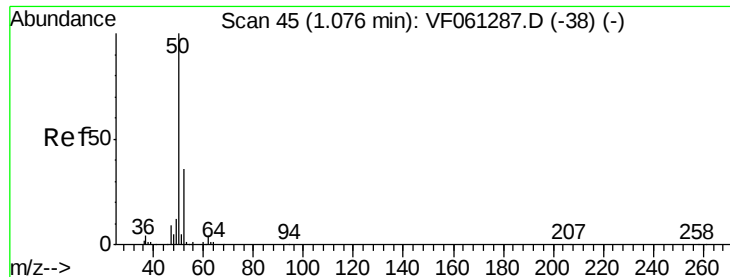
0.90

1.00

1.10

Time-->





#3

Chloromethane

Concen: 23.531 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion: 50 Resp: 75427

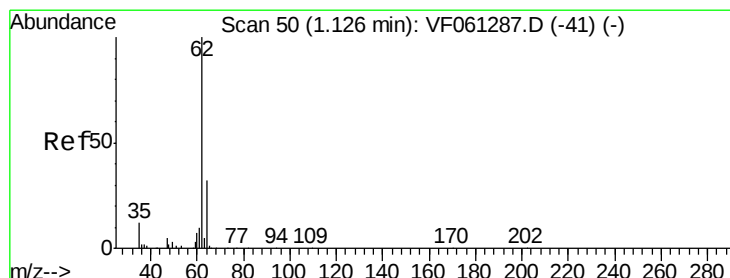
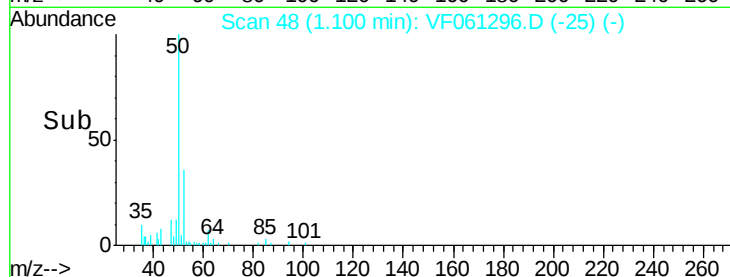
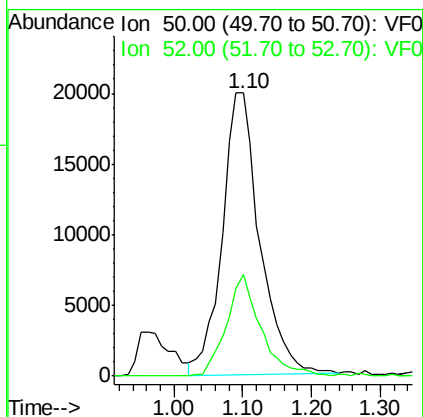
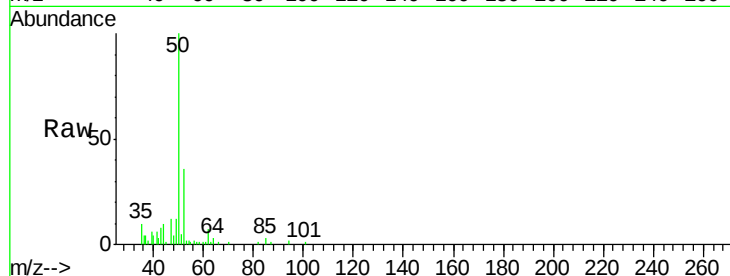
Ion Ratio Lower Upper

50 100

52 36.1 28.2 42.2

Manual Integrations
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1/10/2019 2:02:40 PM



#4

Vinyl Chloride

Concen: 22.362 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.02 min

Lab File: VF061296.D

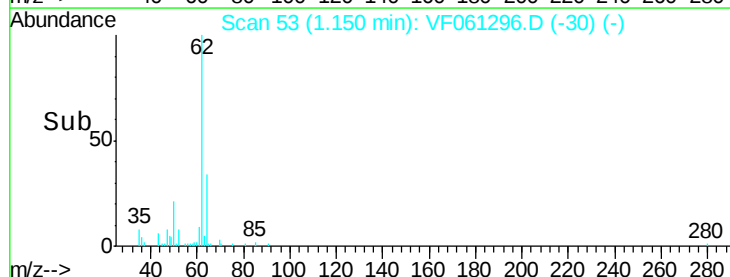
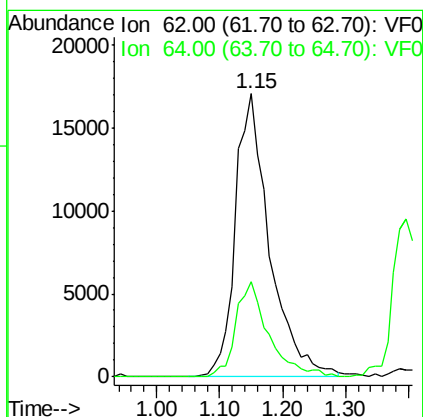
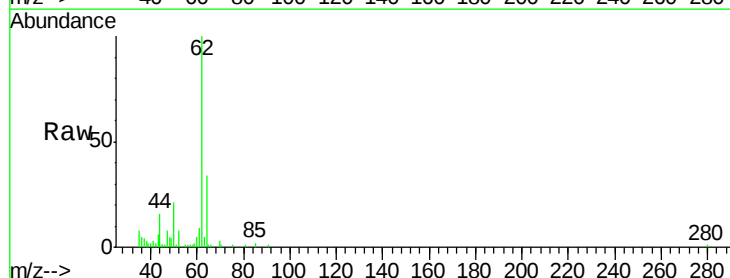
Acq: 9 Jan 2019 12:50

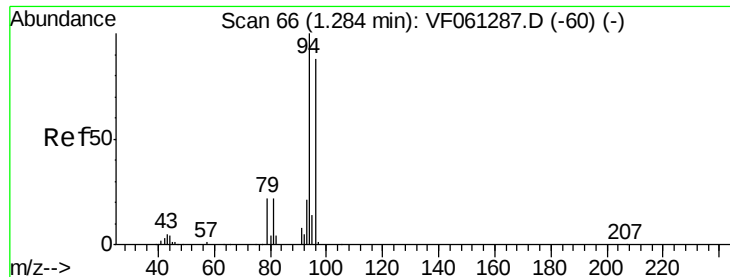
Tgt Ion: 62 Resp: 64020

Ion Ratio Lower Upper

62 100

64 33.6 25.4 38.0





#5

Bromomethane

Concen: 17.782 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.03 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD01

Tot Ion: 94 Resp: 38195

Ion Ratio Lower Upper

94 100

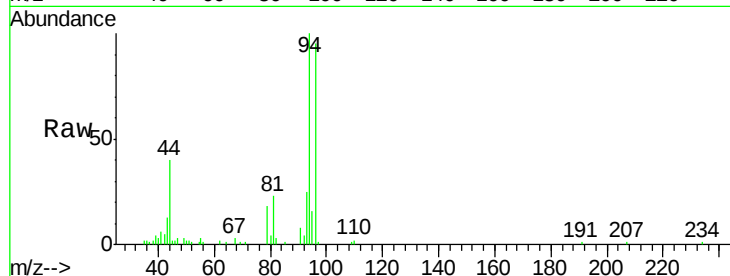
96 94.8 70.2 105.4

Manual Integrations

APPROVED

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1/10/2019 2:02:40 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

12000

10000

8000

6000

4000

2000

0

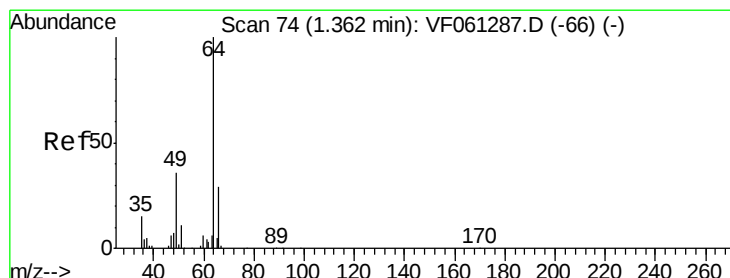
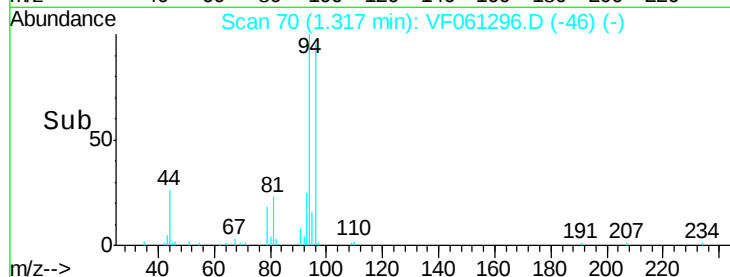
1.20

1.30

1.40

1.50

Time-->



#6

Chloroethane

Concen: 20.978 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.03 min

Lab File: VF061296.D

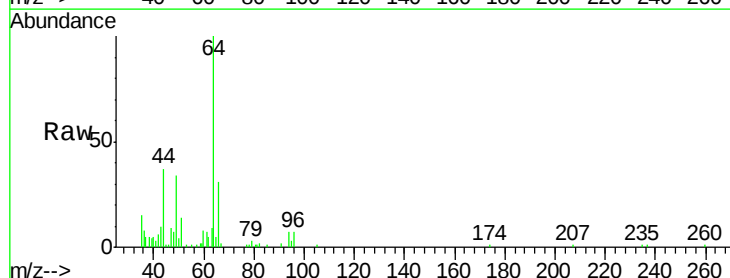
Acq: 9 Jan 2019 12:50

Tgt Ion: 64 Resp: 29327

Ion Ratio Lower Upper

64 100

66 31.0 23.4 35.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

10000

8000

6000

4000

2000

0

1.20

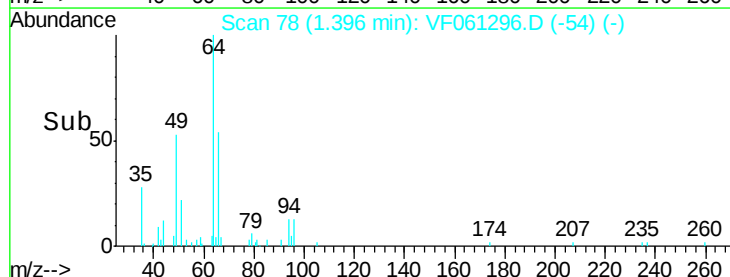
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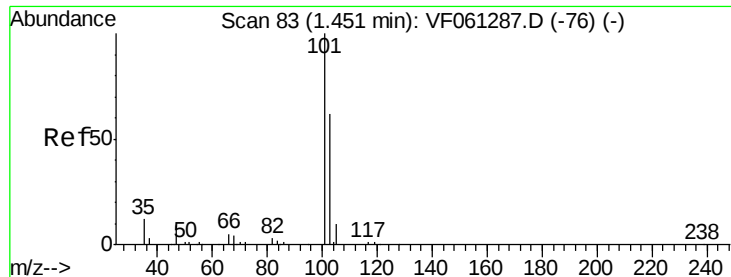
1.40

1.50

1.60

Time-->





#7

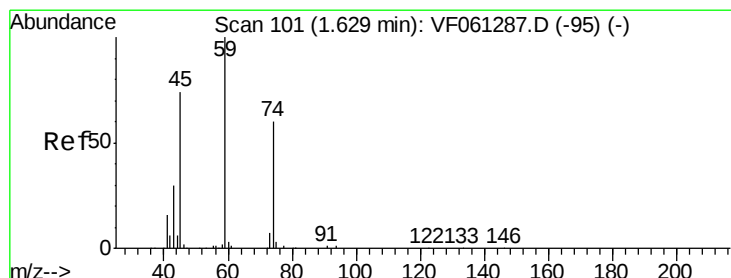
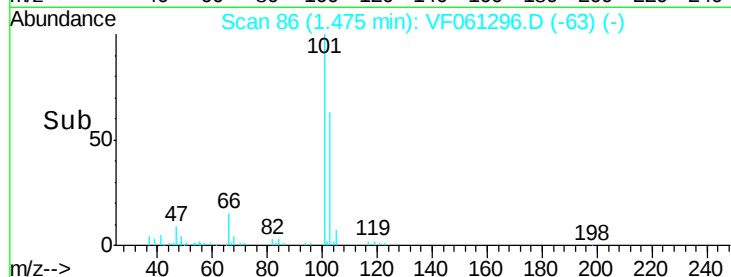
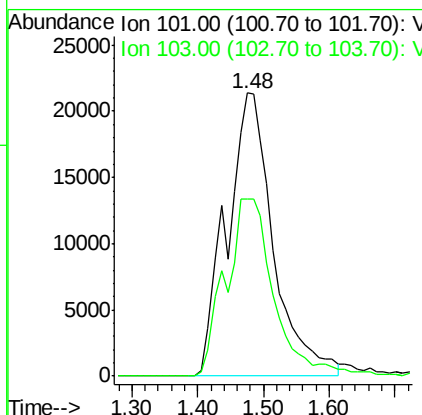
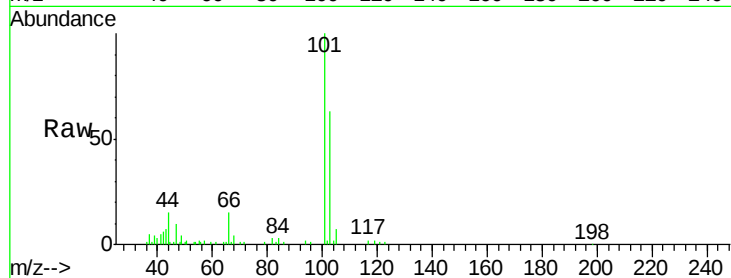
Trichlorofluoromethane
Concen: 21.800 ug/l
RT: 1.48 min Scan# 86
Delta R.T. 0.02 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
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ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	105800		
103	62.6	49.9	74.9	

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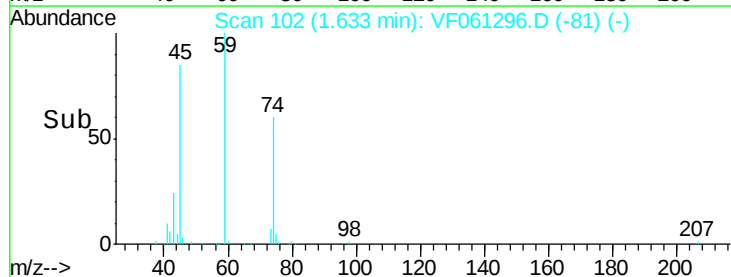
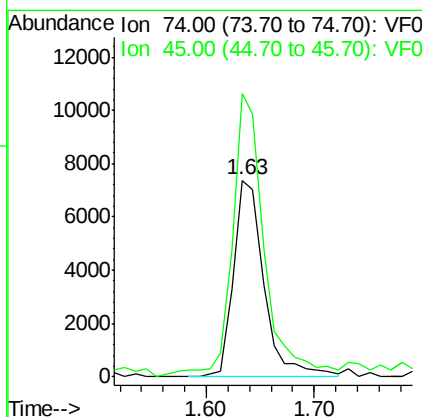
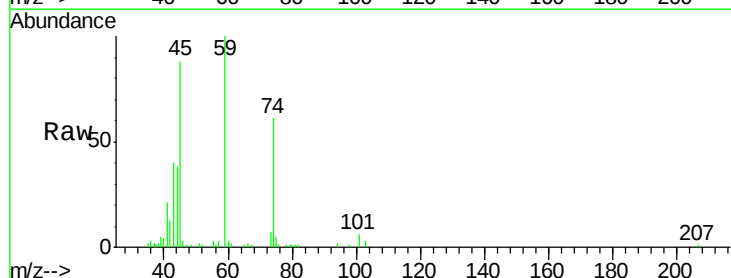
MMDadoda
1/10/2019 2:02:40 PM

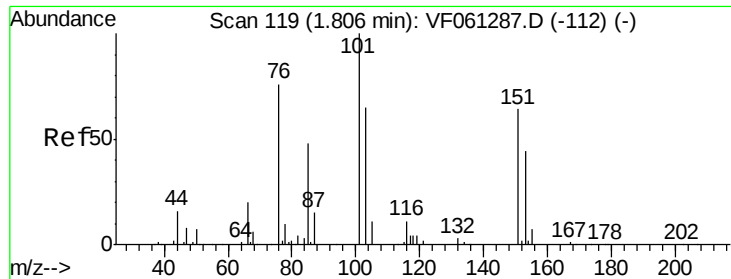


#8

Diethyl Ether
Concen: 20.353 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	14505		
45	144.1	62.1	186.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.661 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.03 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

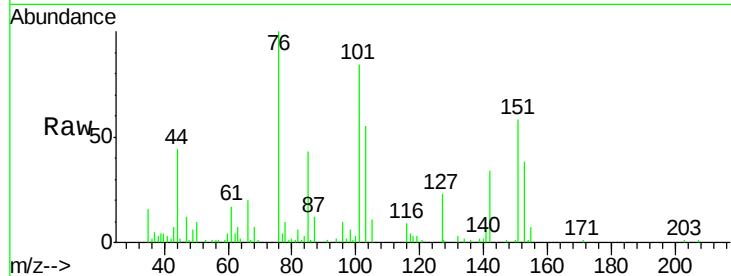
ClientSampleId :

VF0109SBS01

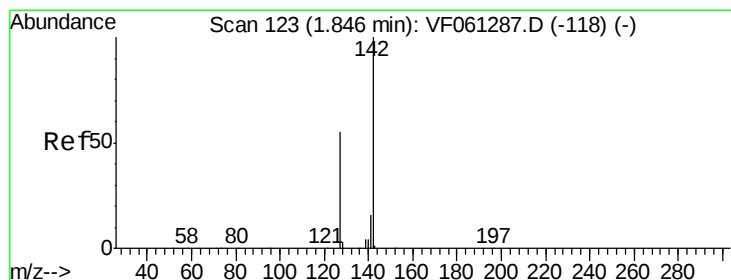
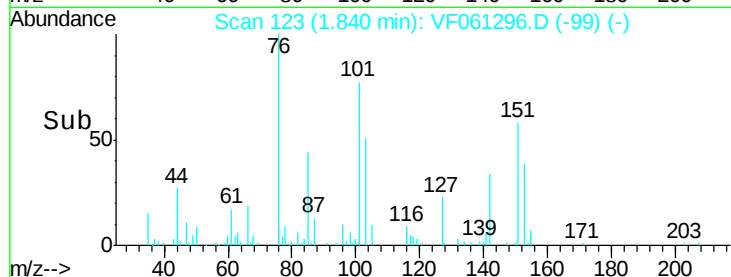
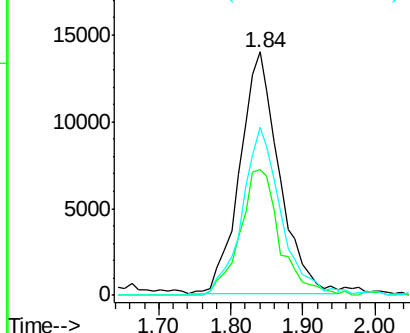
Tot Ion:	101	Resp:	52947
Ion Ratio	Lower	Upper	
101	100		
85	51.7	38.4	57.6
151	69.1	51.4	77.2

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Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VF0
Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 20.795 ug/l m

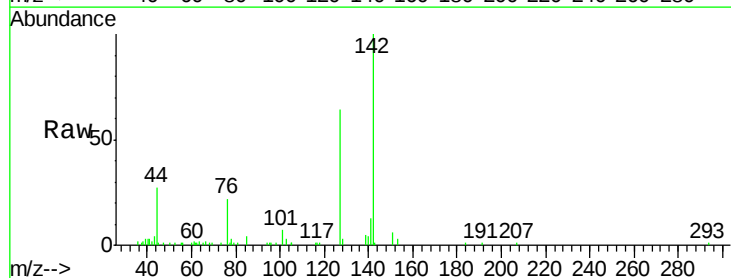
RT: 1.91 min Scan# 130

Delta R.T. 0.06 min

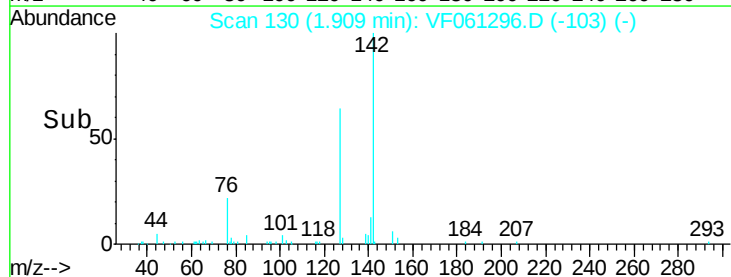
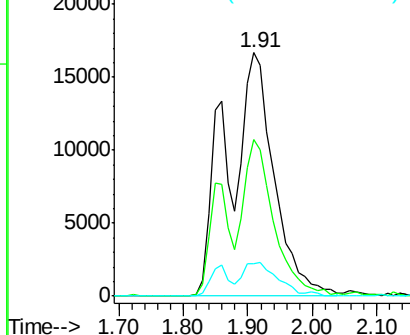
Lab File: VF061296.D

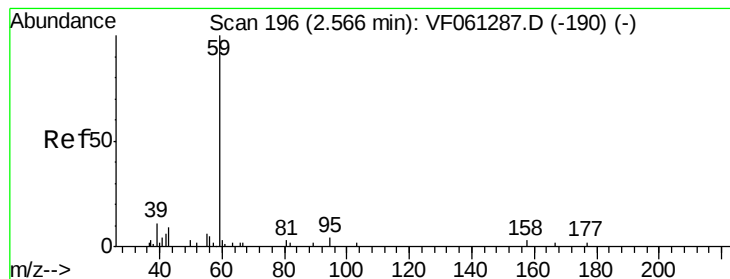
Acq: 9 Jan 2019 12:50

Tgt Ion:	142	Resp:	83490
Ion Ratio	Lower	Upper	
142	100		
127	64.2	44.3	66.5
141	13.2	13.2	19.8#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V





#11

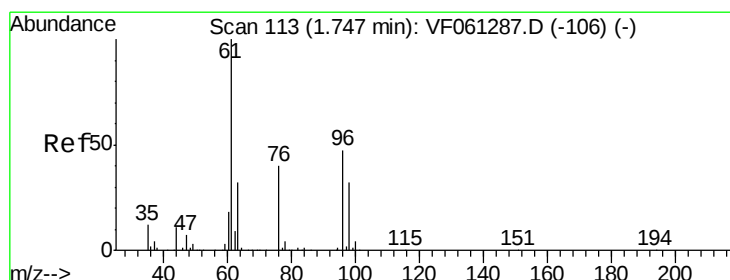
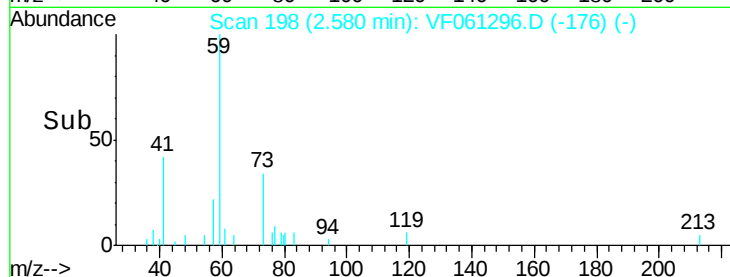
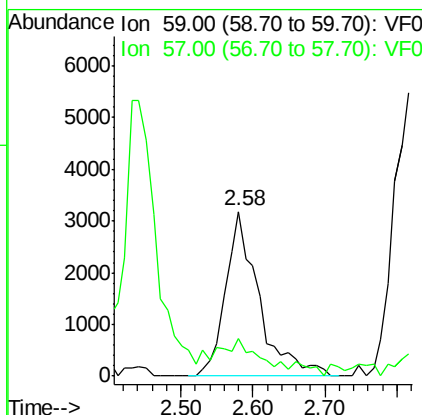
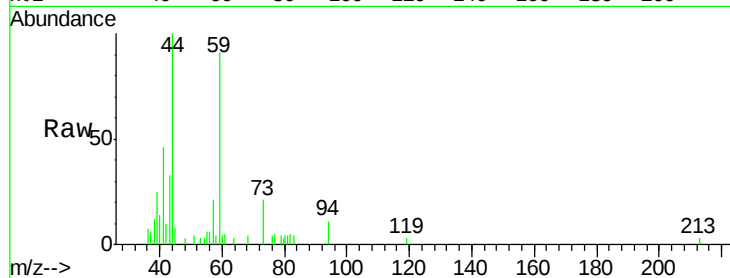
Tert butyl alcohol
 Concen: 117.866 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. 0.01 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBSD01

Tot Ion: 59 Resp: 10243
 Ion Ratio Lower Upper
 59 100
 57 22.7 15.1 22.7#

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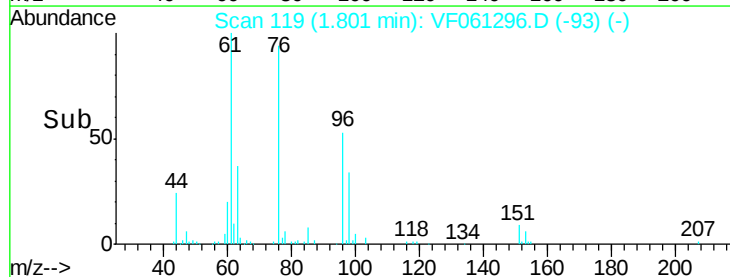
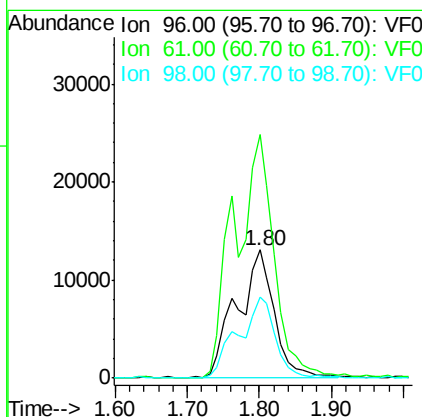
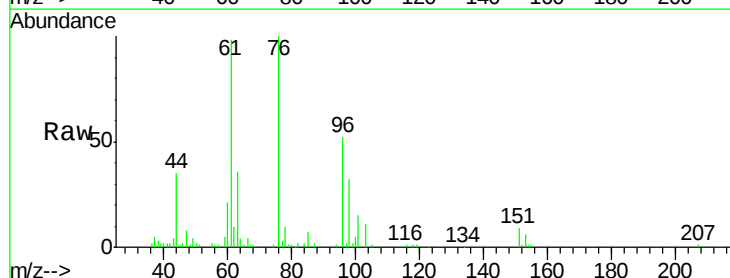
MMDadoda
 1/10/2019 2:02:40 PM

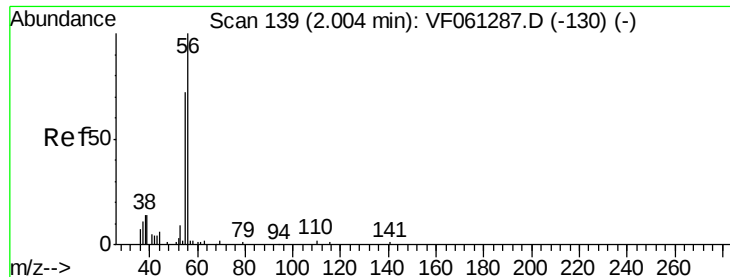


#12

1,1-Dichloroethene
 Concen: 23.124 ug/l
 RT: 1.80 min Scan# 119
 Delta R.T. 0.05 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Tgt Ion: 96 Resp: 47385
 Ion Ratio Lower Upper
 96 100
 61 189.8 171.8 257.8
 98 62.8 54.2 81.4





#13

Acrolein

Concen: 84.706 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion: 56 Resp: 9329

Ion Ratio Lower Upper

56 100

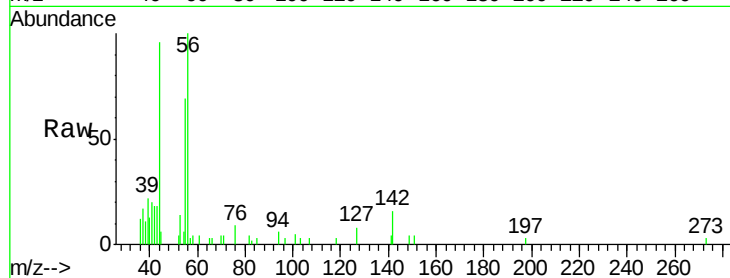
55 69.4 59.4 89.0

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.01

5000

4000

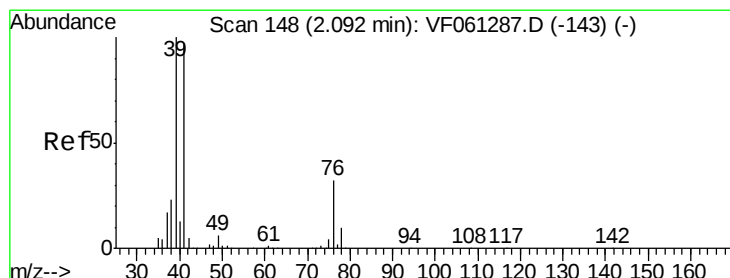
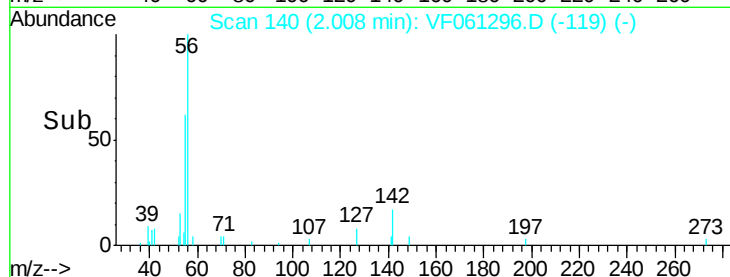
3000

2000

1000

0

Time-->



#14

Allyl chloride

Concen: 20.971 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

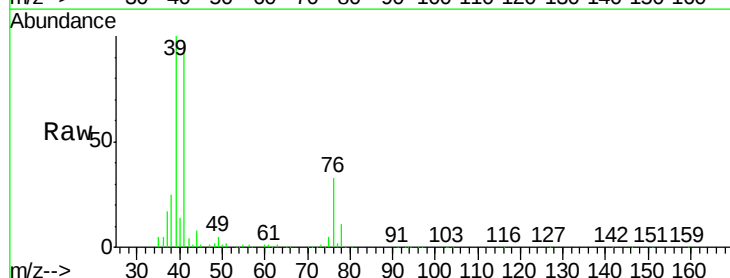
Tgt Ion: 41 Resp: 78550

Ion Ratio Lower Upper

41 100

39 102.9 82.6 123.8

76 33.7 26.9 40.3



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

50000

40000

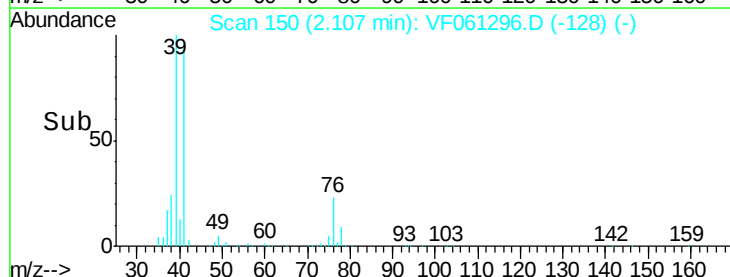
30000

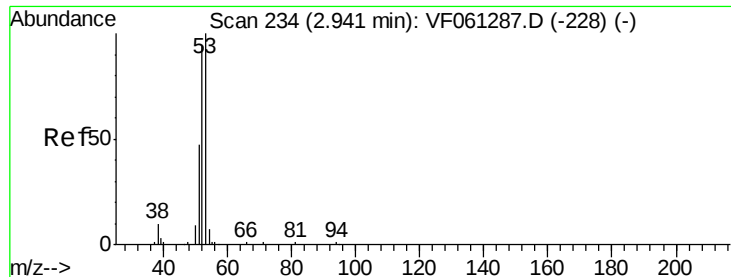
20000

10000

0

Time-->





#15

Acrylonitrile

Concen: 105.031 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

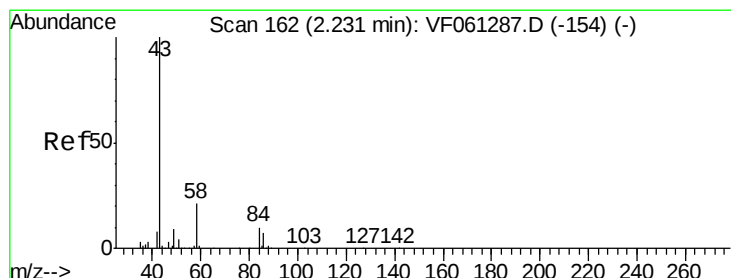
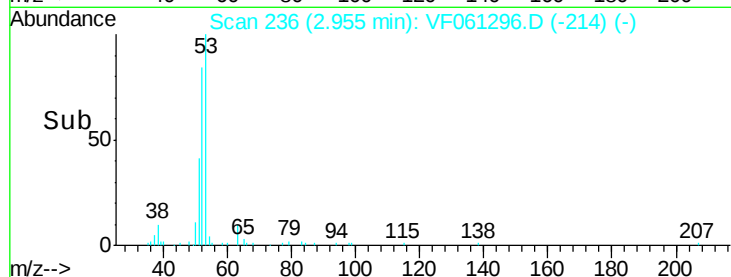
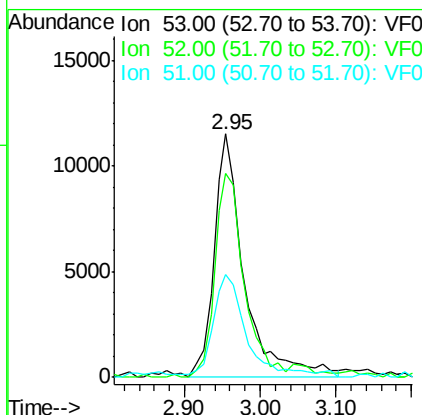
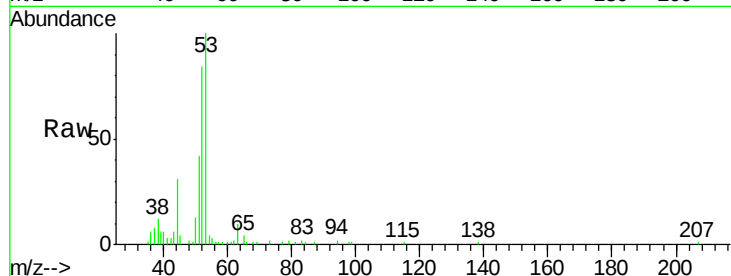
ClientSampleId :

VF0109SBS01

Tot Ion:	53	Resp:	32357
Ion	Ratio	Lower	Upper
53	100		
52	83.5	74.6	111.8
51	42.0	37.8	56.6

Manual Integrations
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#16

Acetone

Concen: 137.631 ug/l

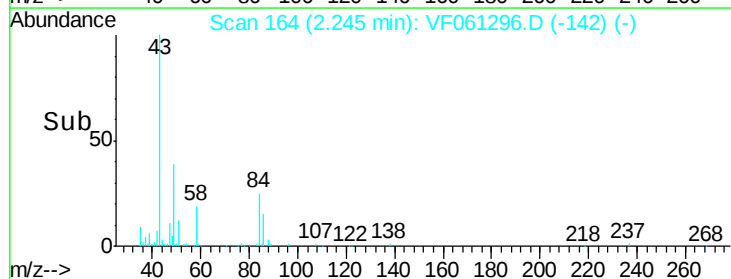
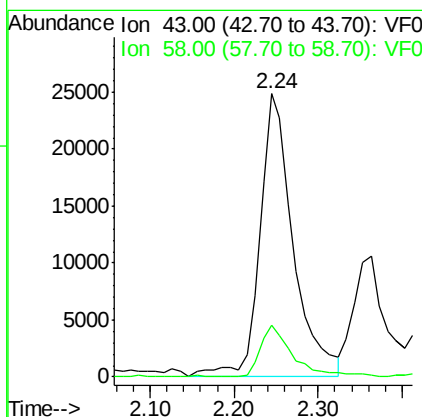
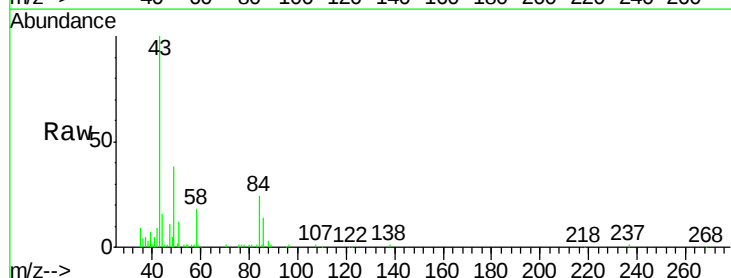
RT: 2.24 min Scan# 164

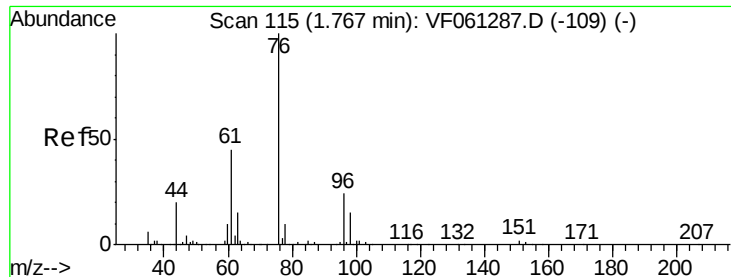
Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion:	43	Resp:	69492
Ion	Ratio	Lower	Upper
43	100		
58	18.4	16.6	25.0





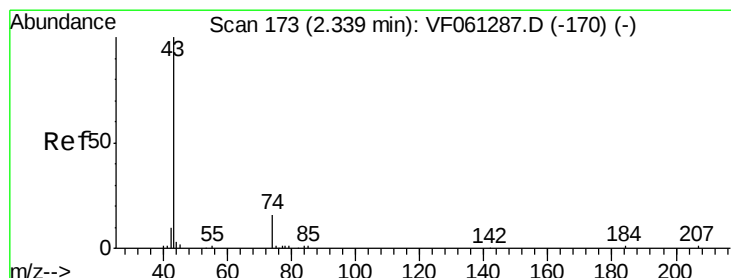
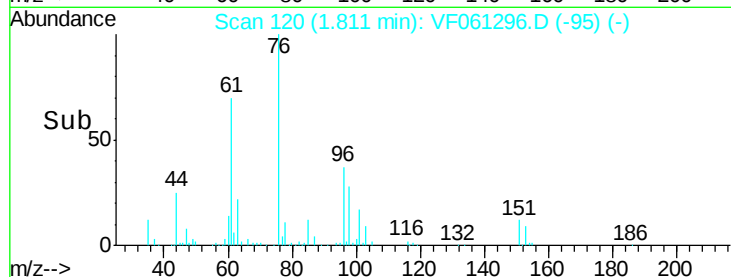
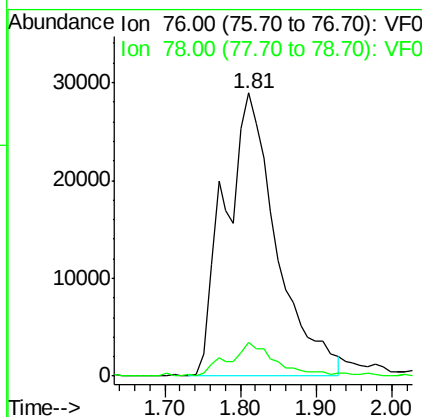
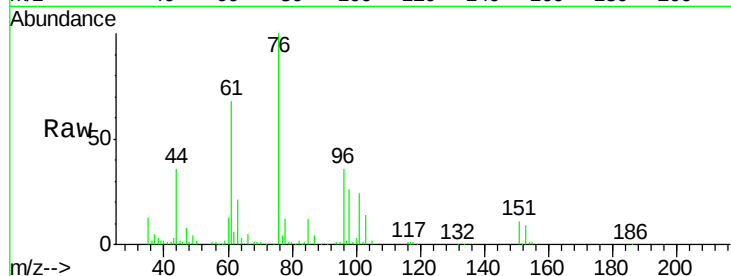
#17
Carbon Disulfide
Concen: 20.495 ug/l
RT: 1.81 min Scan# 120
Delta R.T. 0.04 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion: 76 Resp: 138717
Ion Ratio Lower Upper
76 100
78 12.0 7.8 11.6#

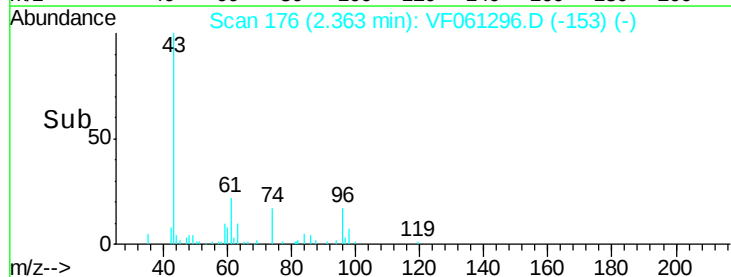
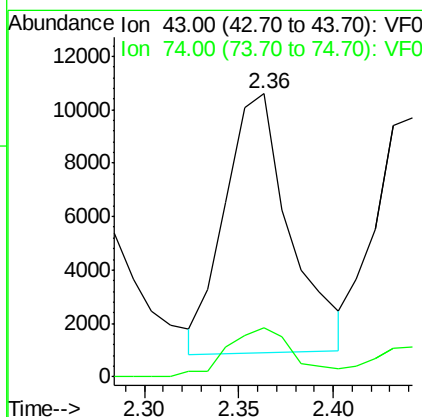
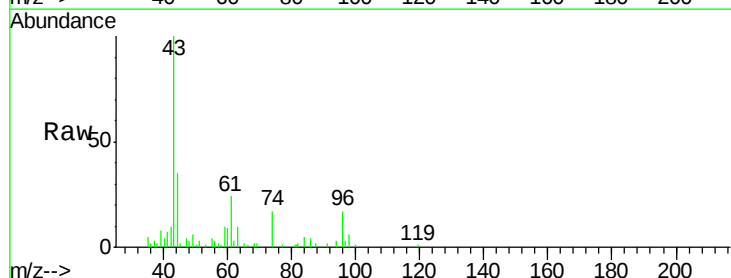
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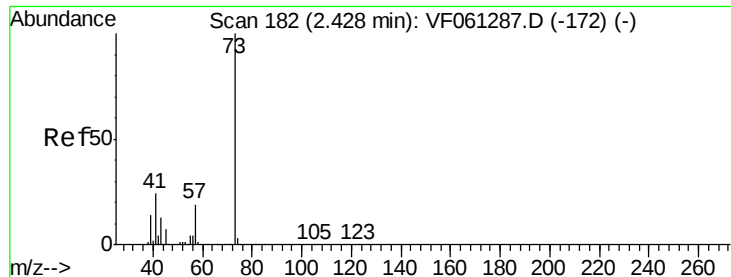
MMDadoda
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#18
Methyl Acetate
Concen: 23.358 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion: 43 Resp: 23204
Ion Ratio Lower Upper
43 100
74 17.4 11.6 17.4#





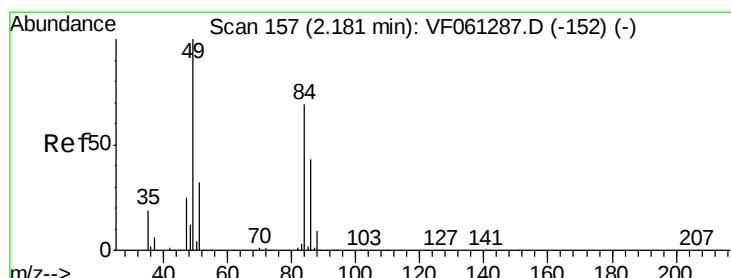
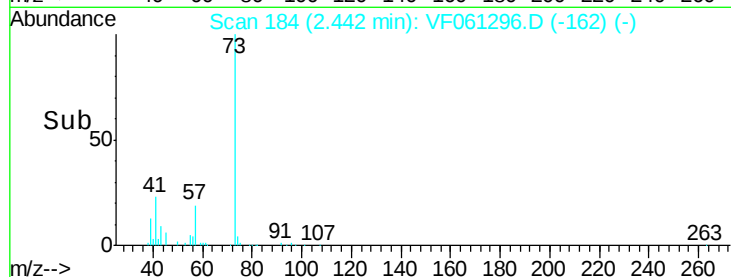
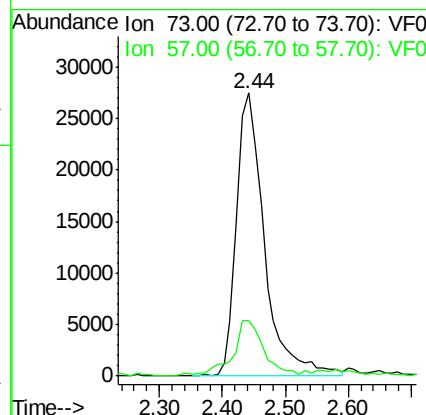
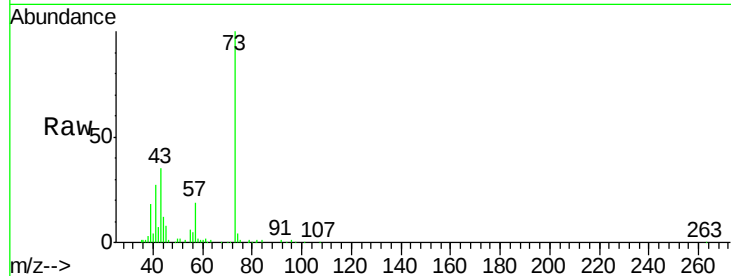
#19
Methvl tert-butvl Ether
Concen: 21.641 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

Tot Ion: 73 Resp: 84507
Ion Ratio Lower Upper
73 100
57 19.4 15.5 23.3

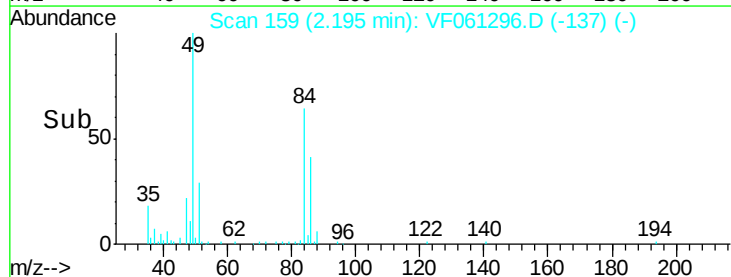
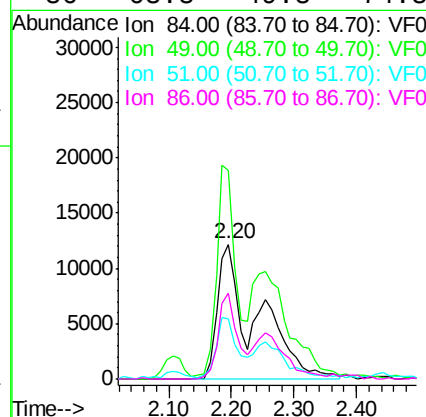
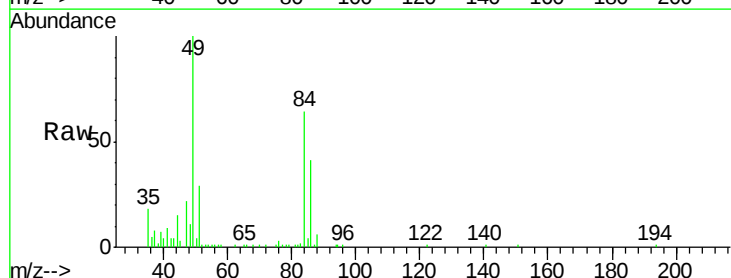
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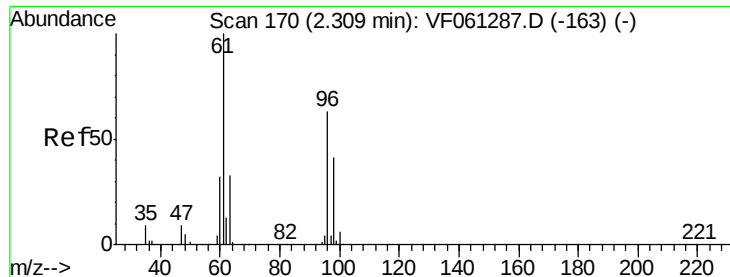
MMDadoda
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#20
Methylene Chloride
Concen: 24.363 ug/l m
RT: 2.20 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion: 84 Resp: 52042
Ion Ratio Lower Upper
84 100
49 155.2 116.6 175.0
51 45.1 37.7 56.5
86 63.8 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 20.575 ug/l

RT: 2.32 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

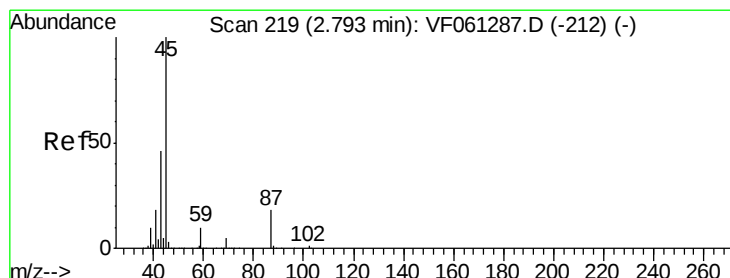
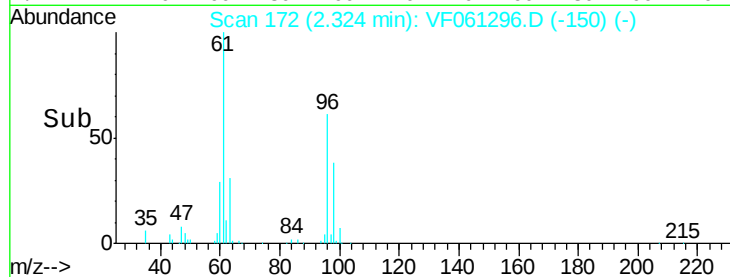
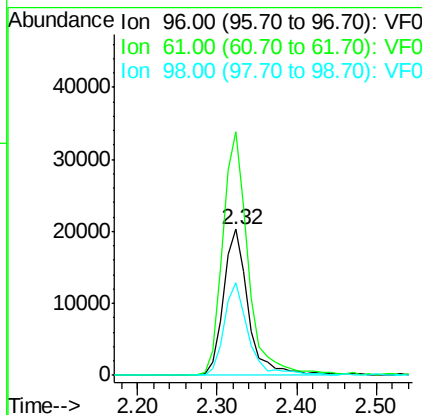
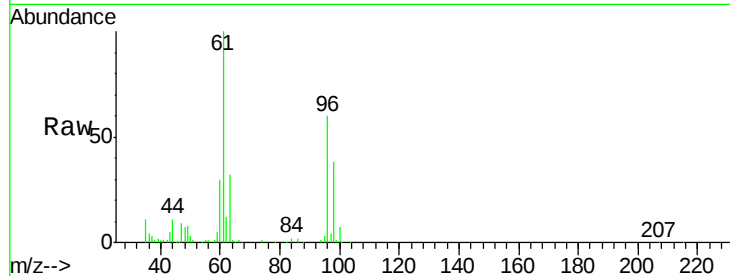
ClientSampleId :

VF0109SBSD01

Tot Ion:	96	Resp:	44678
Ion	Ratio	Lower	Upper
96	100		
61	166.9	127.0	190.4
98	63.1	51.7	77.5

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.805 ug/l

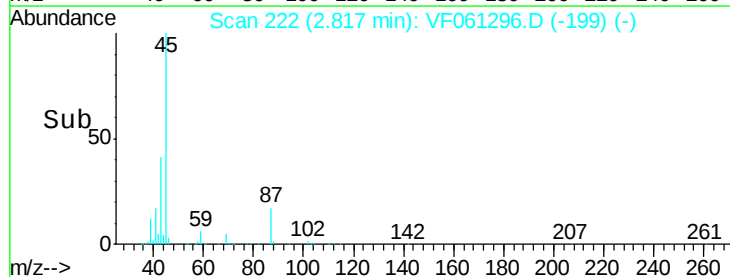
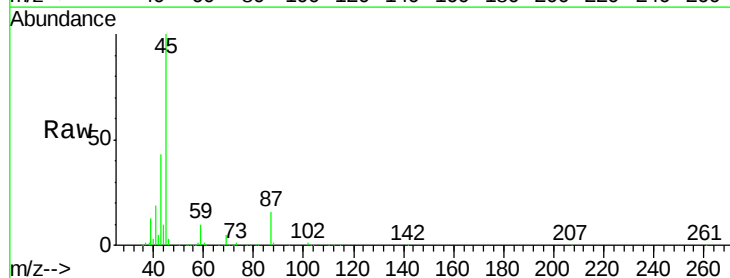
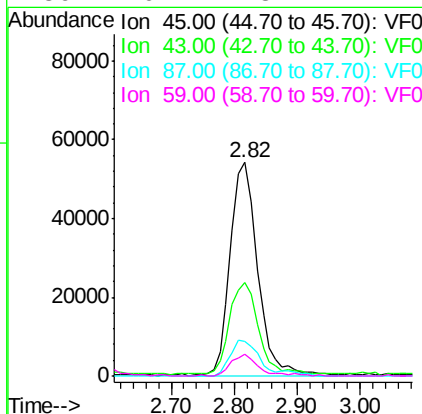
RT: 2.82 min Scan# 222

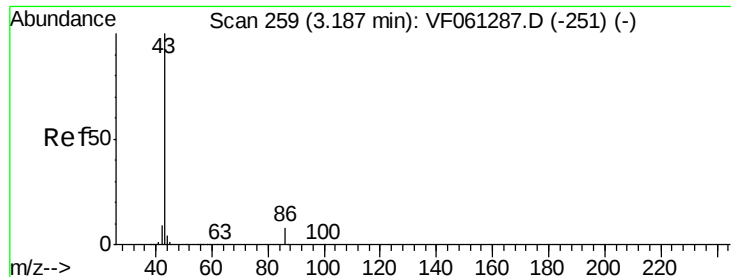
Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion:	45	Resp:	165254
Ion	Ratio	Lower	Upper
45	100		
43	43.5	37.4	56.2
87	16.5	14.2	21.2
59	10.1	8.2	12.2





#23

Vinyl Acetate

Concen: 137.175 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD01

Tot Ion: 43 Resp: 290702

Ion Ratio Lower Upper

43 100

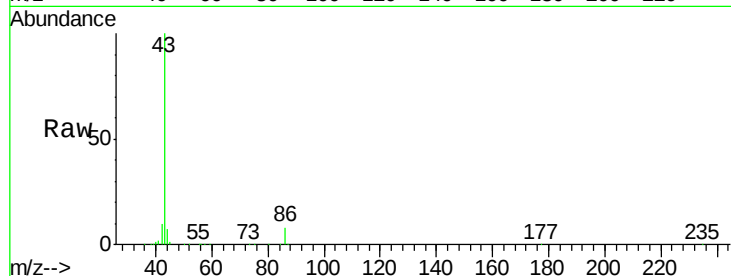
86 8.1 6.5 9.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.20

120000

100000

80000

60000

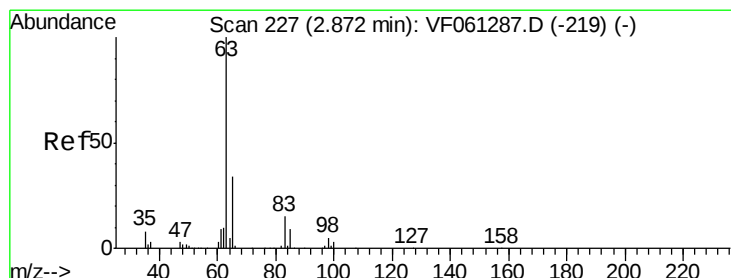
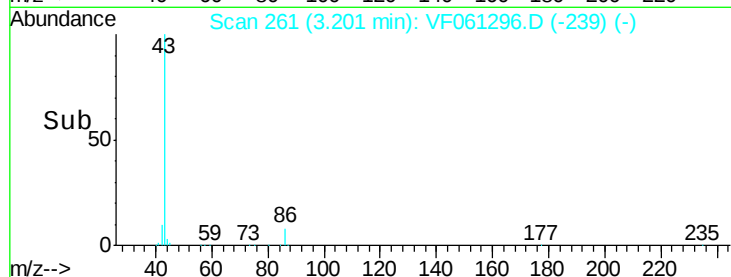
40000

20000

0

Time-->

3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 22.094 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

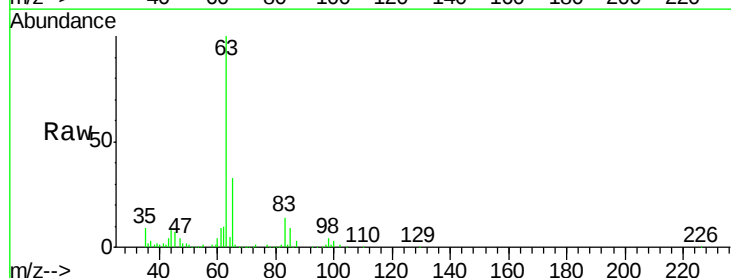
Tgt Ion: 63 Resp: 92611

Ion Ratio Lower Upper

63 100

98 3.9 2.5 7.6

100 3.4 1.7 5.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.89

50000

40000

30000

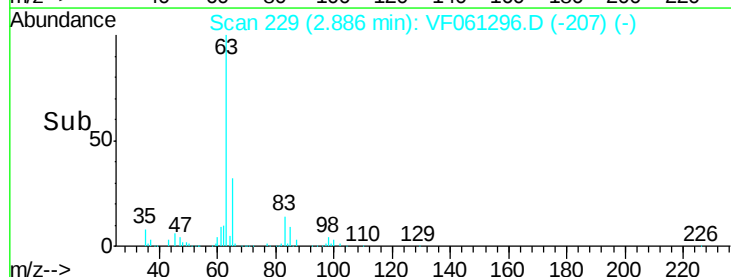
20000

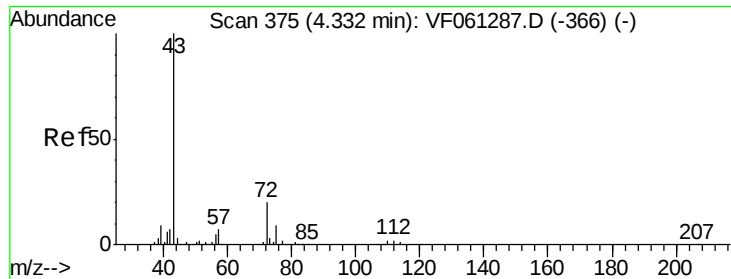
10000

0

Time-->

2.80 2.90 3.00





#25

2-Butanone

Concen: 135.438 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion: 43 Resp: 110065

Ion Ratio Lower Upper

43 100

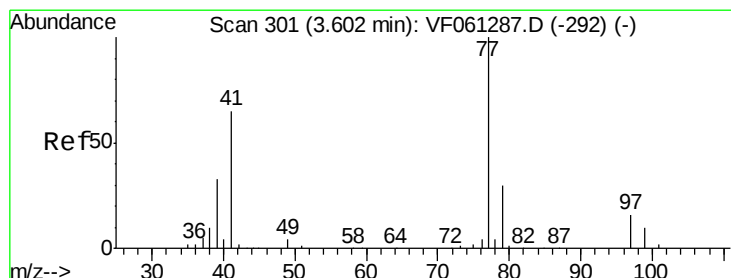
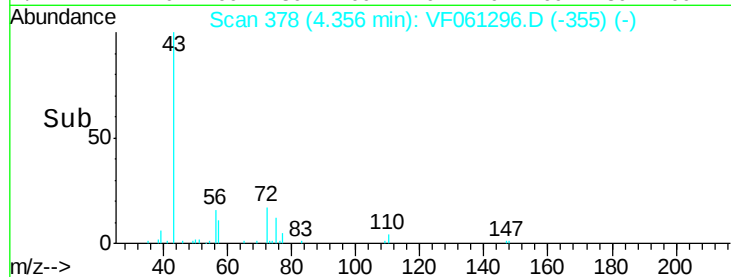
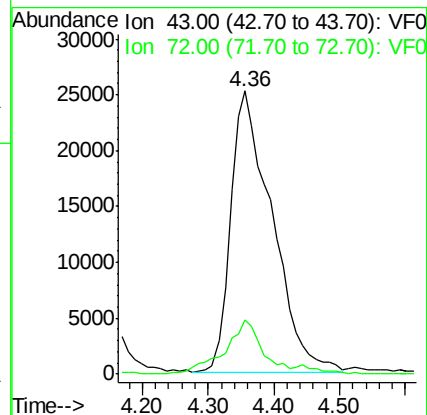
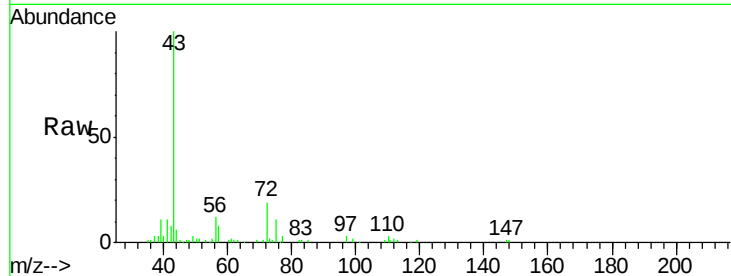
72 19.0 16.5 24.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.511 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.01 min

Lab File: VF061296.D

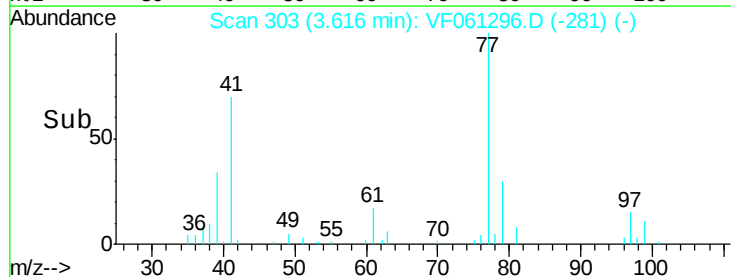
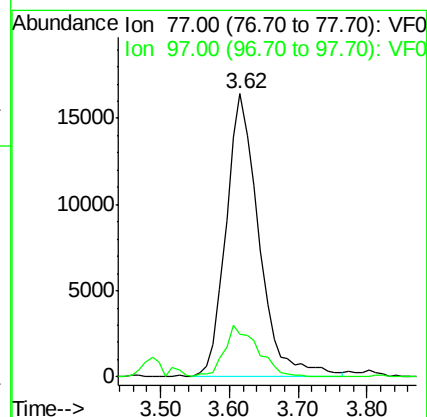
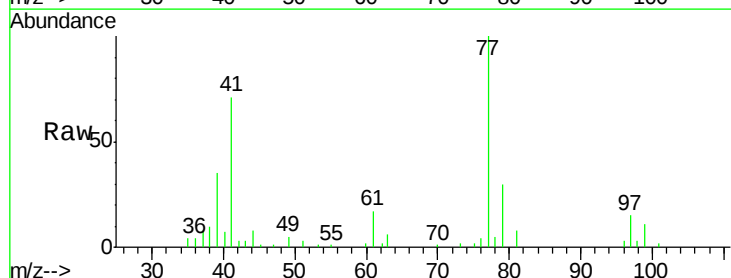
Acq: 9 Jan 2019 12:50

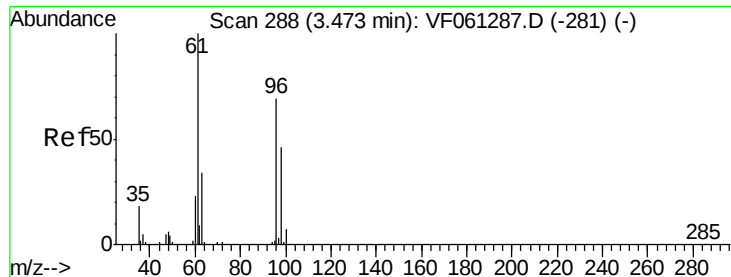
Tgt Ion: 77 Resp: 54652

Ion Ratio Lower Upper

77 100

97 15.1 8.6 25.9





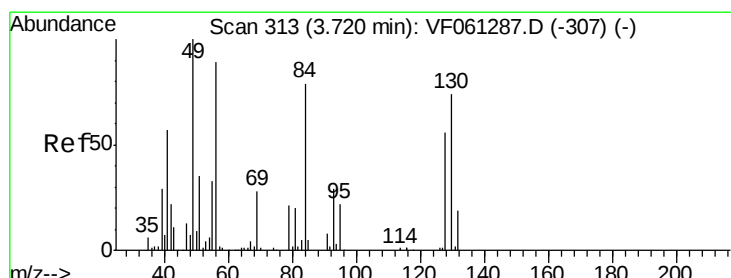
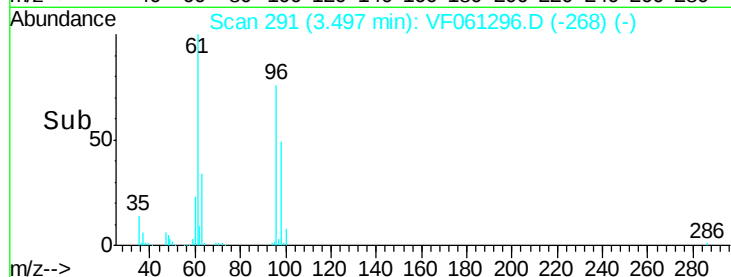
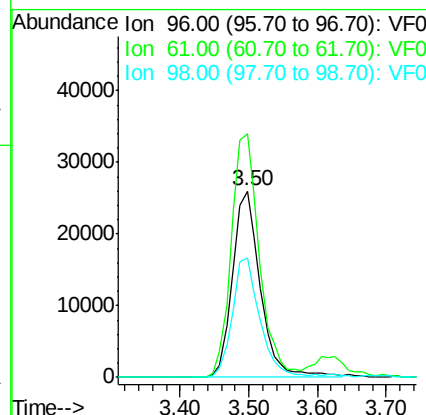
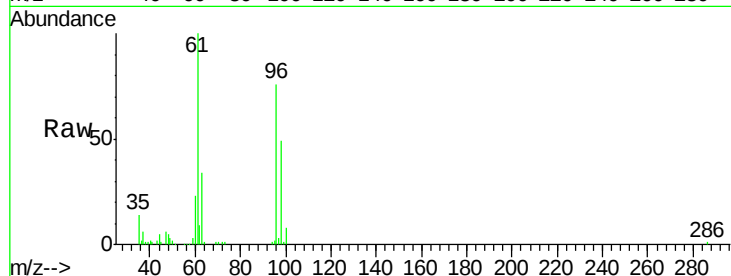
#27
 cis-1,2-Dichloroethene
 Concen: 23.989 ug/l
 RT: 3.50 min Scan# 291
 Delta R.T. 0.02 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.8	0.0	288.2
98	64.1	0.0	132.2

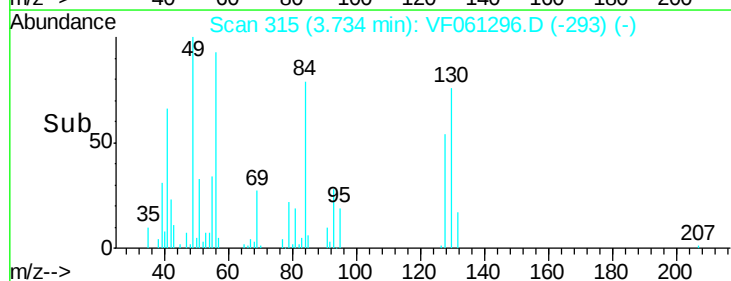
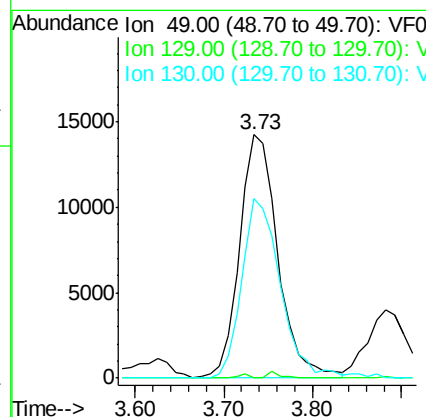
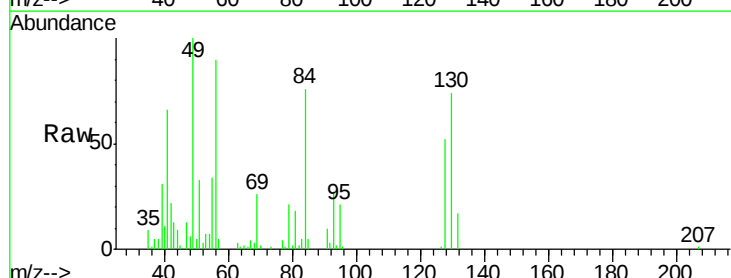
Manual Integrations
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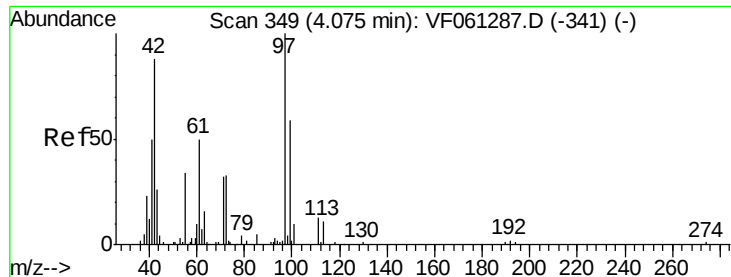
MMDadoda
 1/10/2019 2:02:40 PM



#28
 Bromochloromethane
 Concen: 23.061 ug/l
 RT: 3.73 min Scan# 315
 Delta R.T. 0.01 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	73.8	58.6	88.0





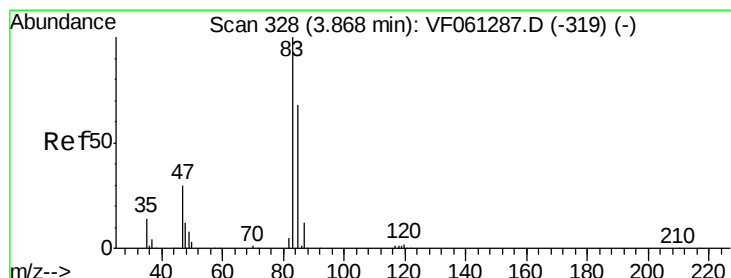
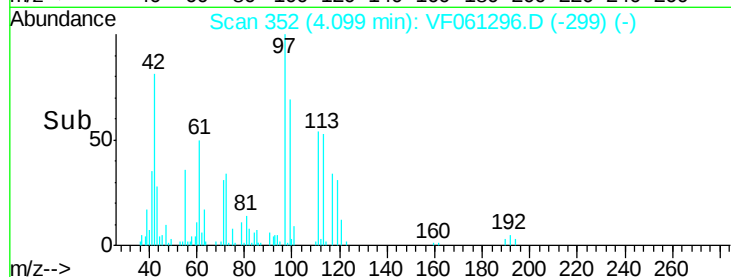
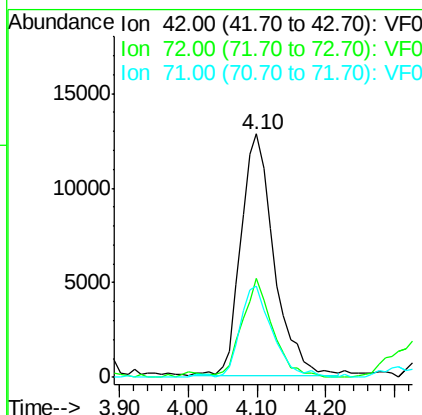
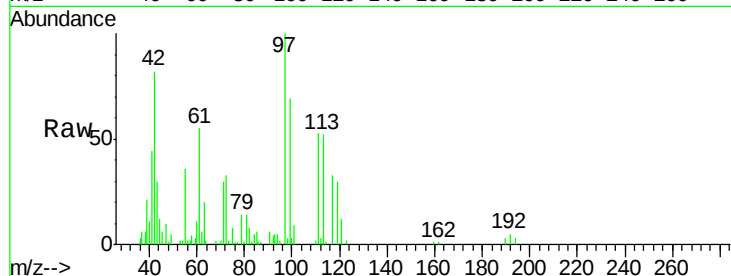
#29
Tetrahydrofuran
Concen: 125.155 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.02 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	32.3	48.5
71	36.7	29.5	44.3

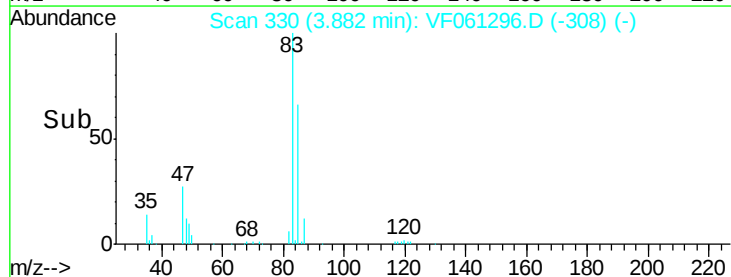
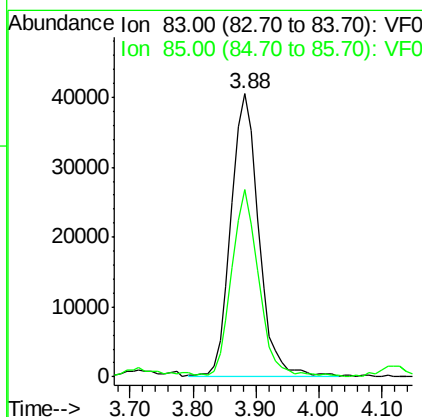
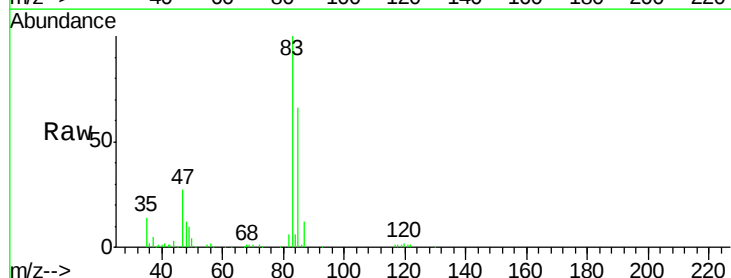
Manual Integrations
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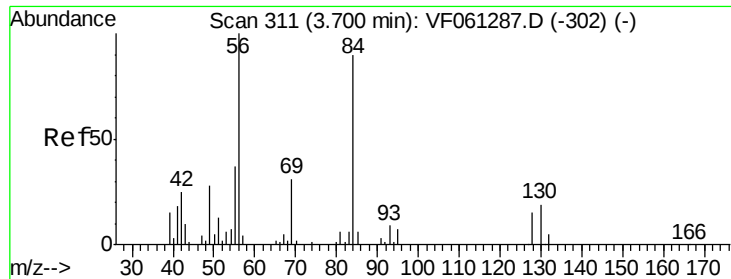
MMDadoda
1/10/2019 2:02:40 PM



#30
Chloroform
Concen: 23.333 ug/l
RT: 3.88 min Scan# 330
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	54.4	81.6





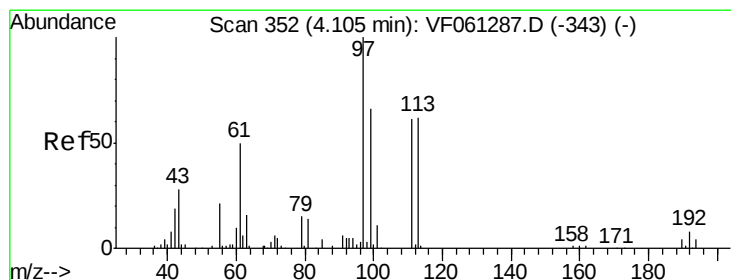
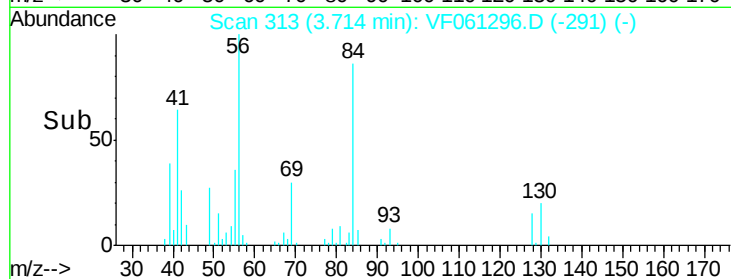
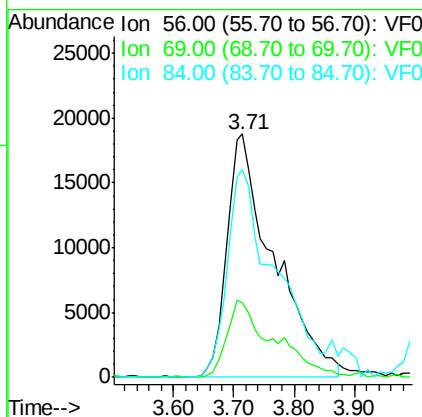
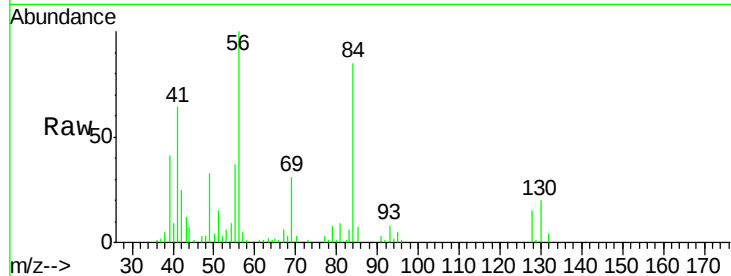
#31
Cyclohexane
Concen: 22.930 ug/l
RT: 3.71 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.7	37.1
84	85.4	72.2	108.4

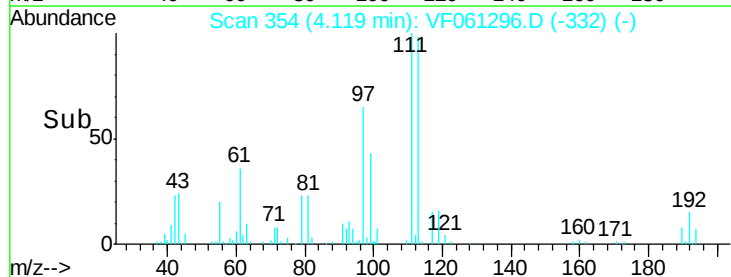
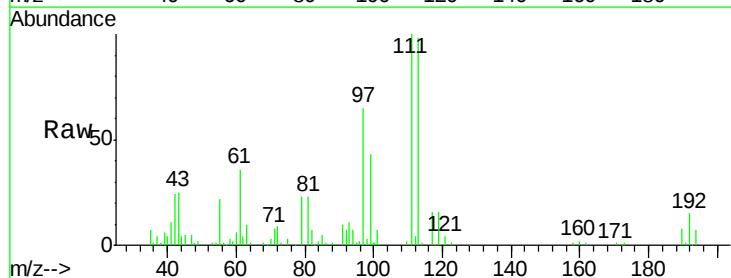
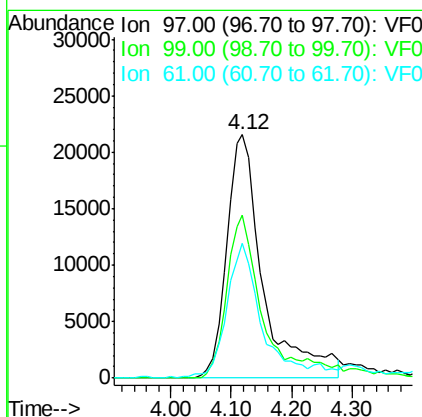
Manual Integrations
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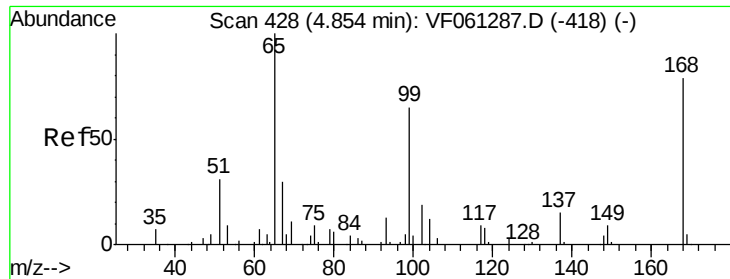
MMDadoda
1/10/2019 2:02:40 PM



#32
1,1,1-Trichloroethane
Concen: 21.071 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.8	52.7	79.1
61	55.4	40.8	61.2





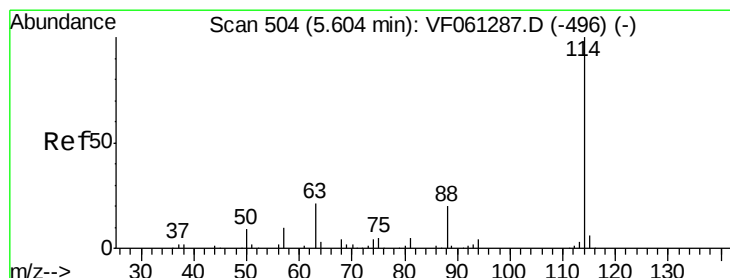
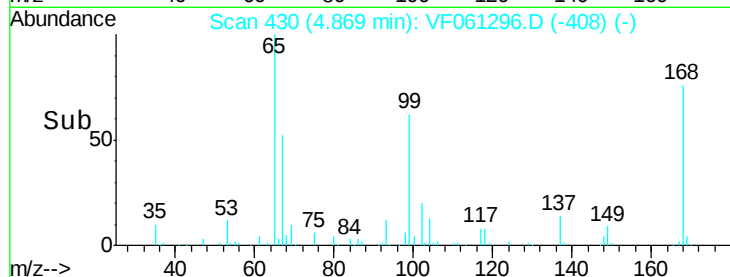
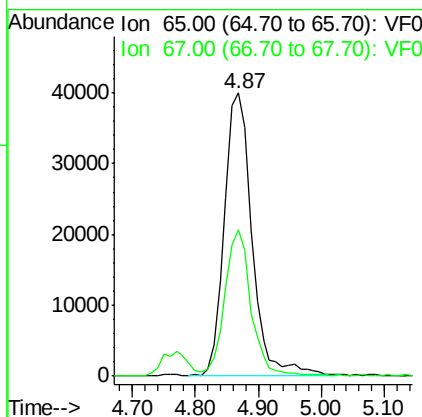
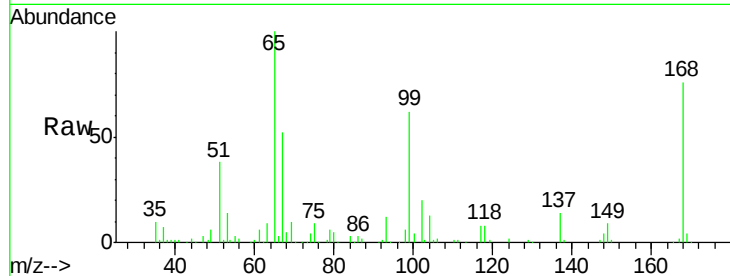
#33
 1,2-Dichloroethane-d4
 Concen: 55.684 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.01 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBSD01

Tot Ion: 65 Resp: 120863
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 98.2

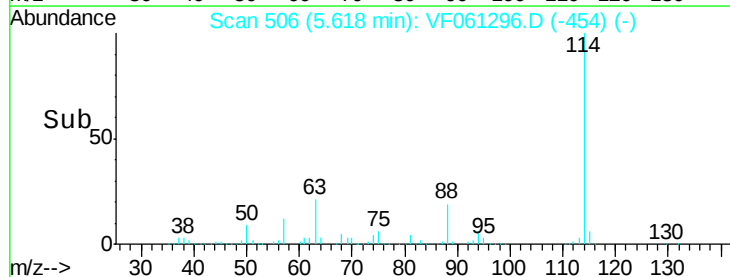
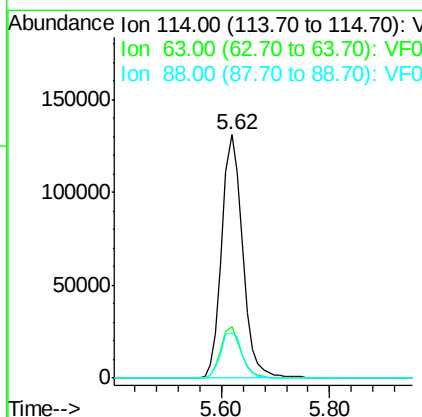
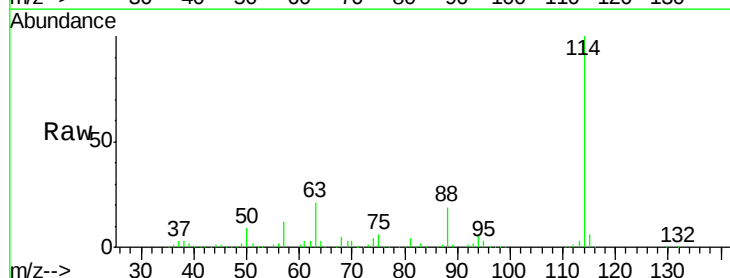
Manual Integrations
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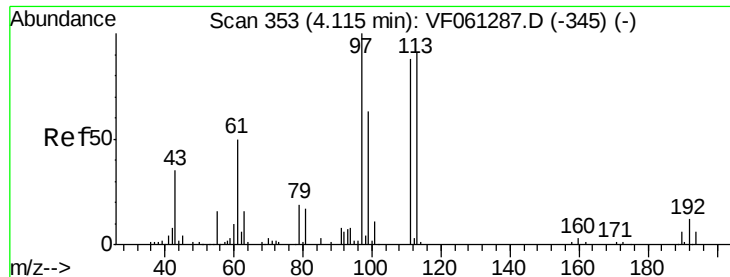
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Tgt Ion: 114 Resp: 351798
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.8
 88 18.8 0.0 40.0





#35

Dibromofluoromethane

Concen: 54.709 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

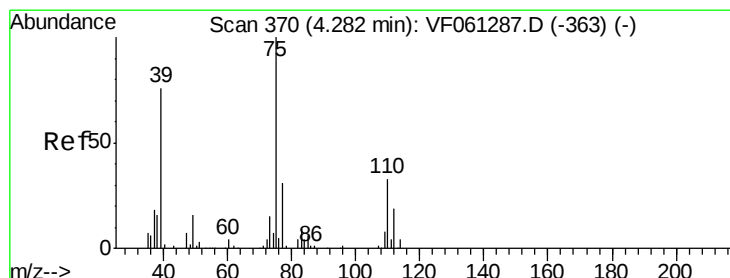
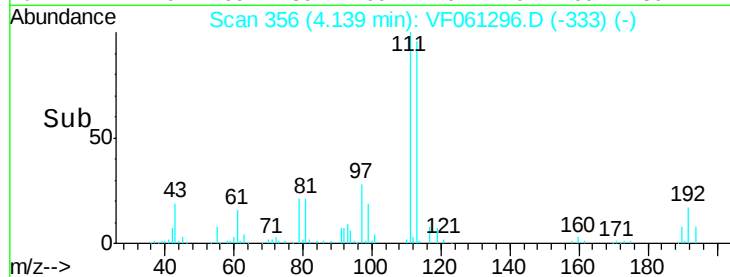
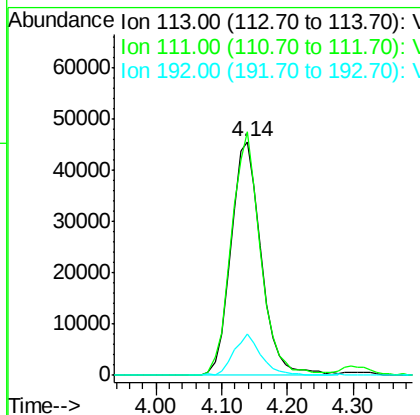
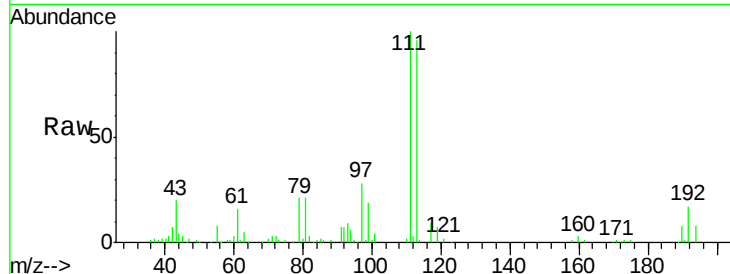
ClientSampleId :

VF0109SBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	78.0	117.0
192	17.4	10.6	16.0

Manual Integrations
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1/10/2019 2:02:40 PM



#36

1,1-Dichloropropene

Concen: 22.465 ug/l

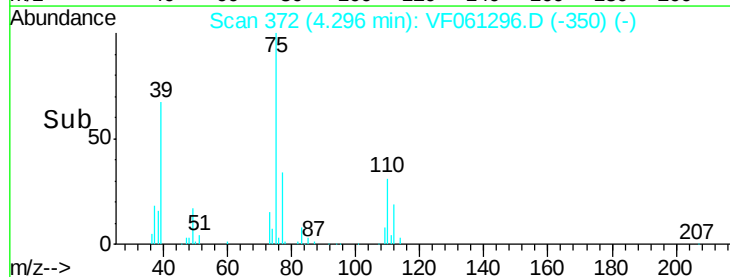
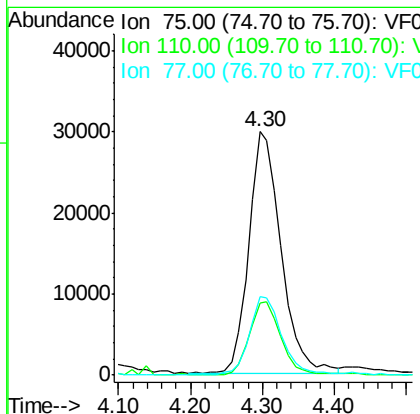
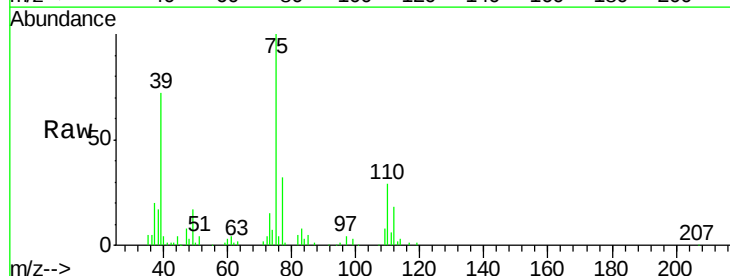
RT: 4.30 min Scan# 372

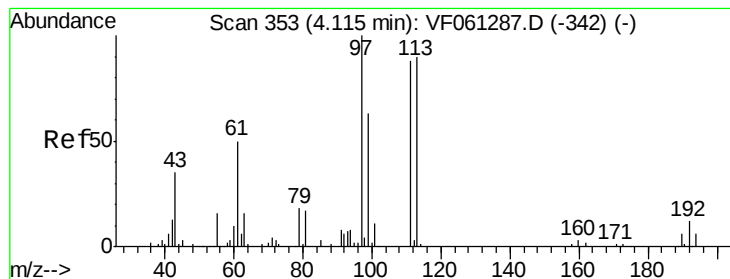
Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	29.4	16.6	49.8
77	32.5	25.1	37.7





#37

Ethyl Acetate

Concen: 26.939 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

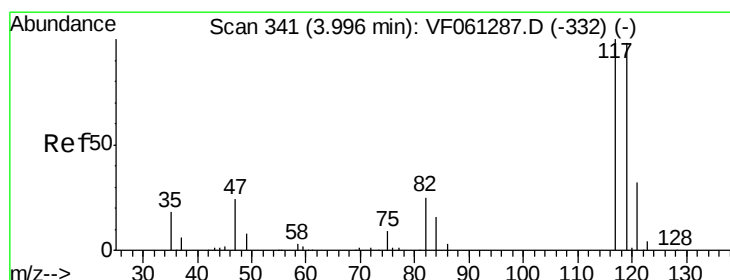
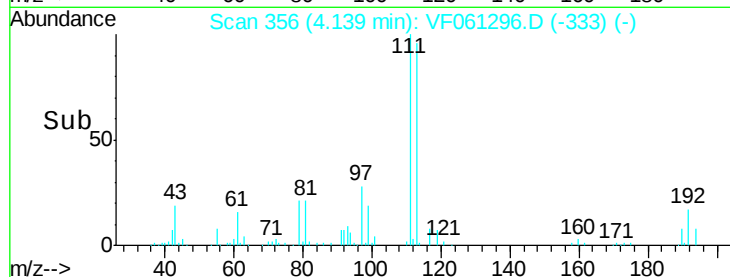
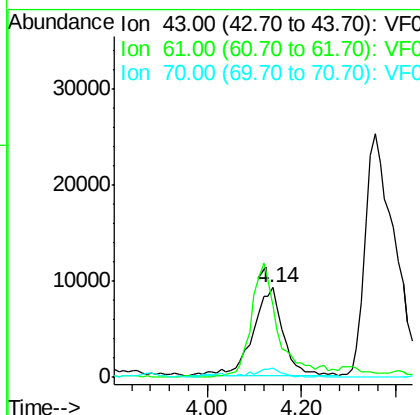
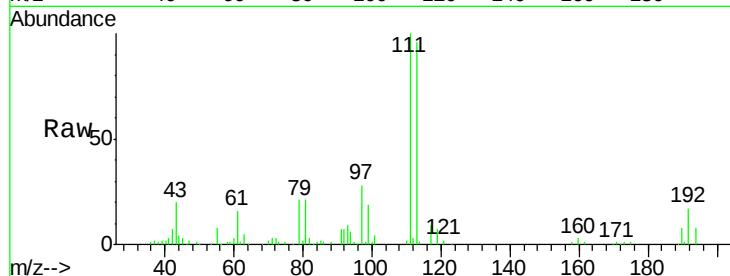
ClientSampleId :

VF0109SBS01

Tot Ion:	43	Resp:	40301
Ion	Ratio	Lower	Upper
43	100		
61	80.8	113.3	169.9#
70	10.7	9.4	14.0

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 19.946 ug/l

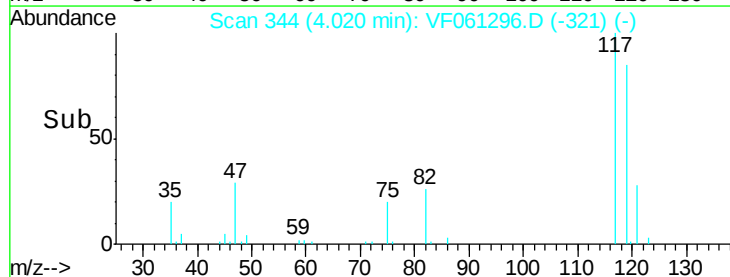
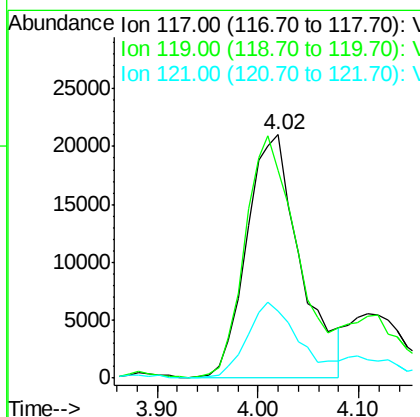
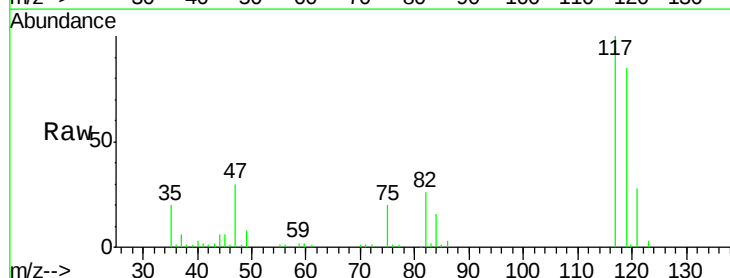
RT: 4.02 min Scan# 344

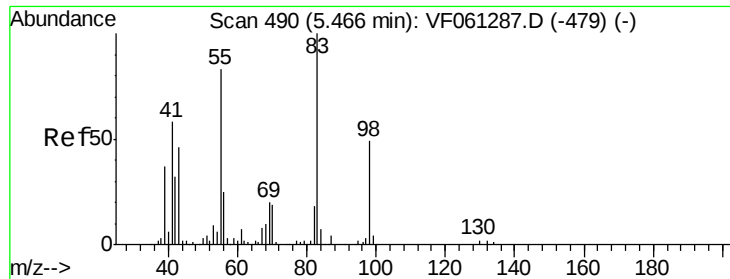
Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion:	117	Resp:	77609
Ion	Ratio	Lower	Upper
117	100		
119	85.2	78.5	117.7
121	27.6	25.3	37.9





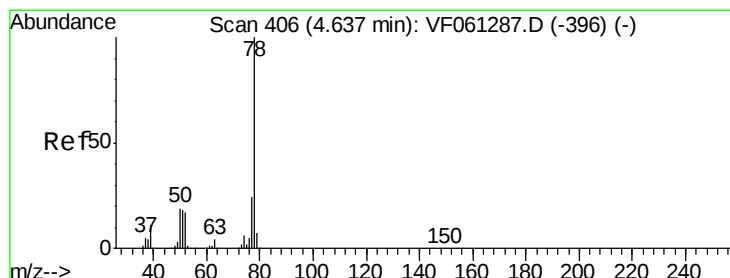
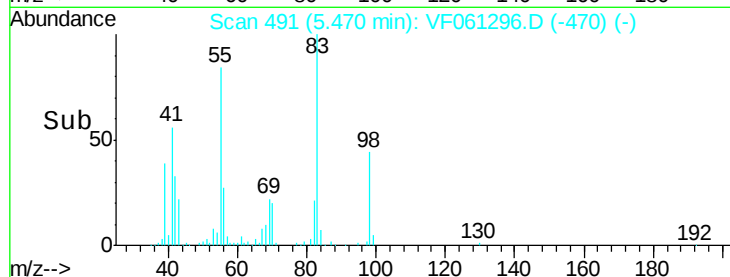
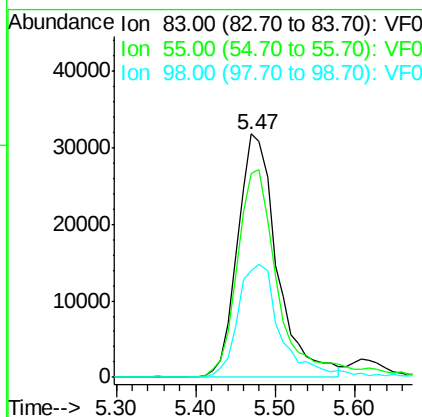
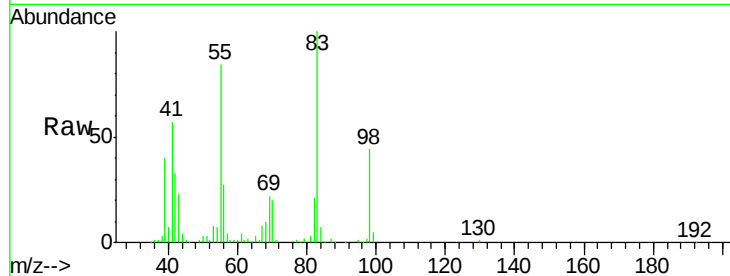
#39
Methvlcvclohexane
Concen: 21.336 ug/l
RT: 5.47 min Scan# 491
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

Tot Ion	83	Resp	109676
Ion Ratio	Lower	Upper	
83	100		
55	83.6	66.4	99.6
98	43.8	39.1	58.7

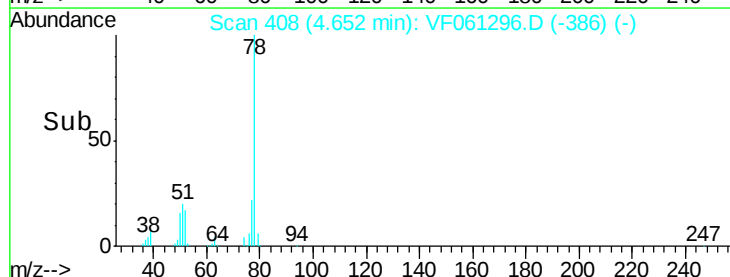
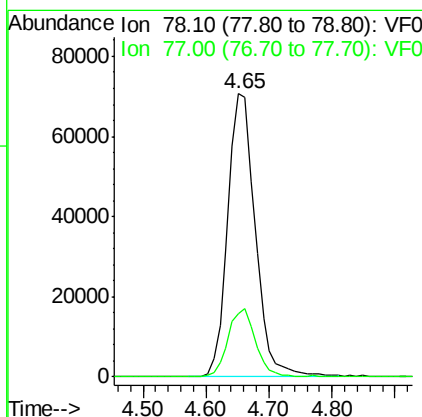
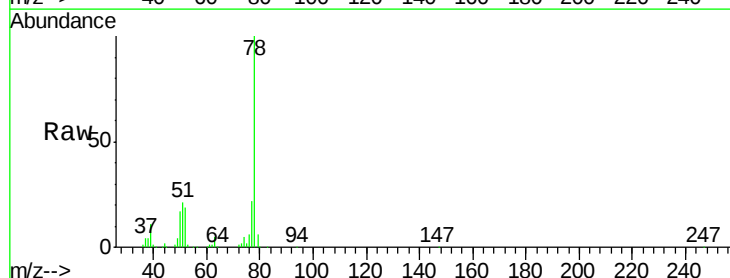
Manual Integrations
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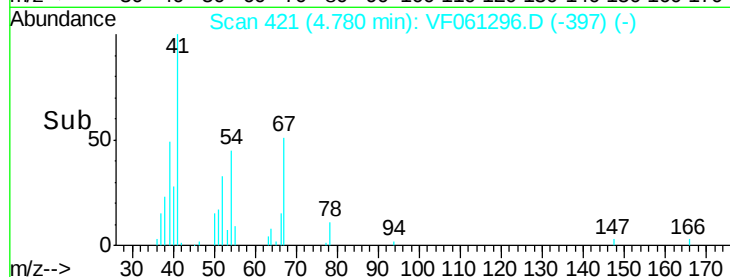
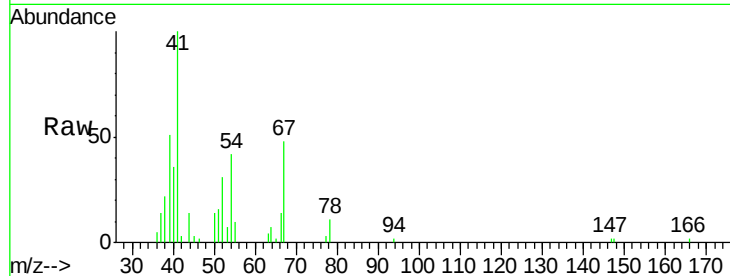
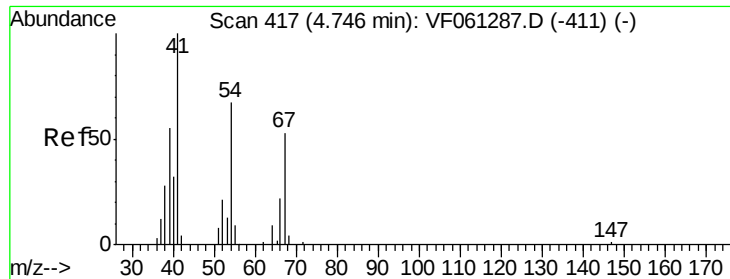
MMDadoda
1/10/2019 2:02:40 PM



#40
Benzene
Concen: 22.346 ug/l
RT: 4.65 min Scan# 408
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	78	Resp	214320
Ion Ratio	Lower	Upper	
78	100		
77	22.5	19.1	28.7





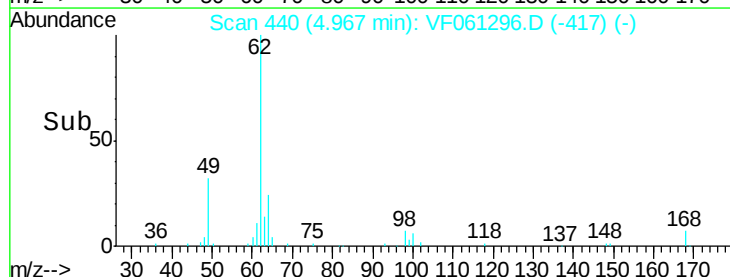
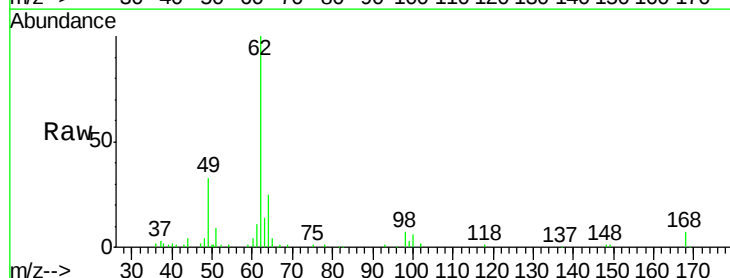
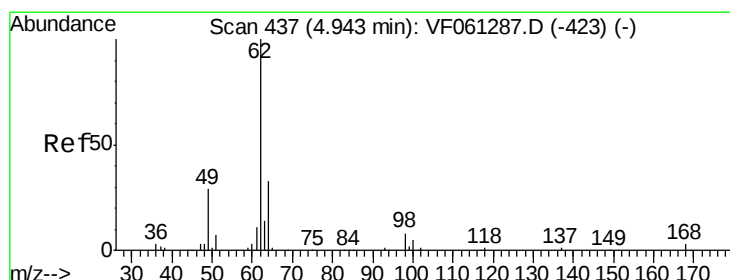
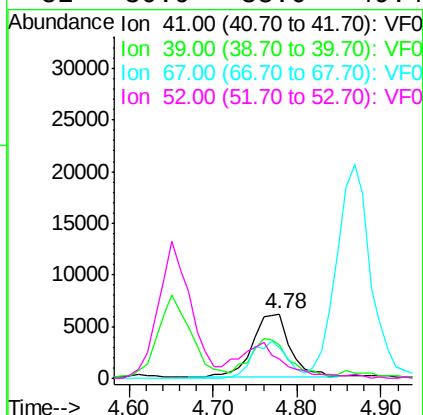
#41
Methacrylonitrile
Concen: 22.440 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.03 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.5	52.7	79.1#	
67	47.7	41.4	62.2	
52	30.9	33.0	49.4#	

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

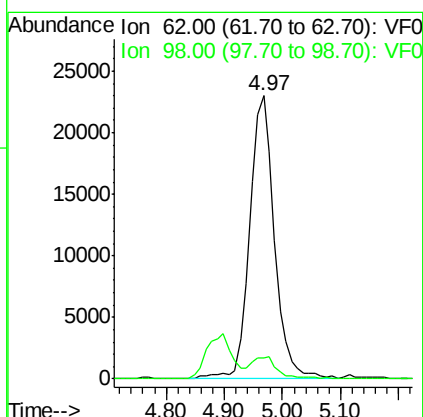
Manual Integrations
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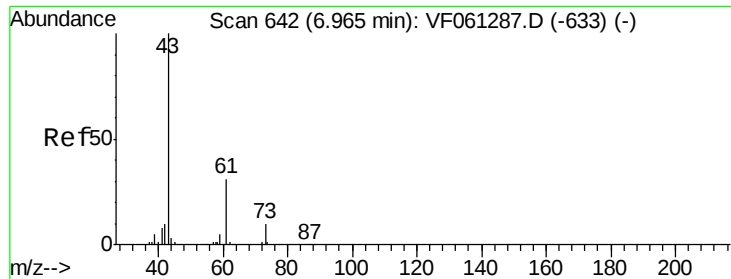
MMDadoda
1/10/2019 2:02:40 PM



#42
1,2-Dichloroethane
Concen: 23.134 ug/l
RT: 4.97 min Scan# 440
Delta R.T. 0.02 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.4	0.0	16.8	





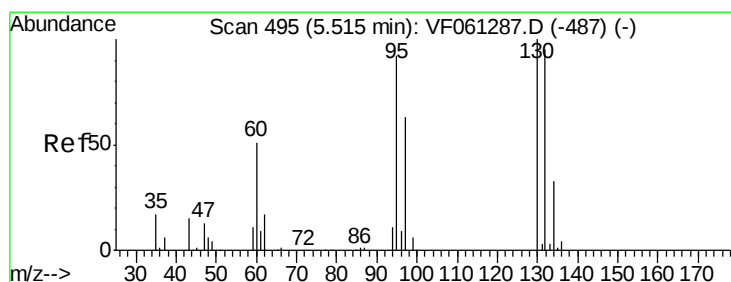
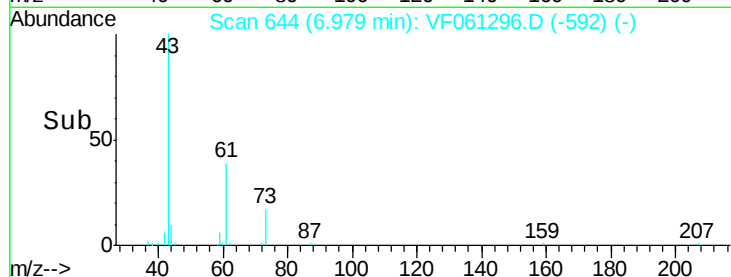
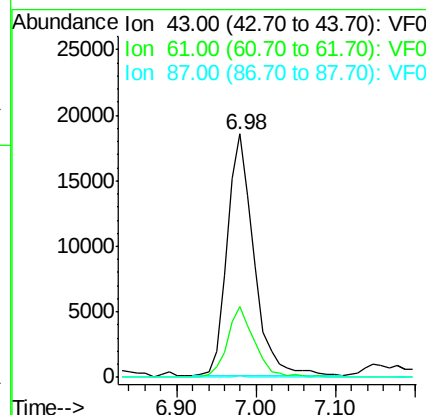
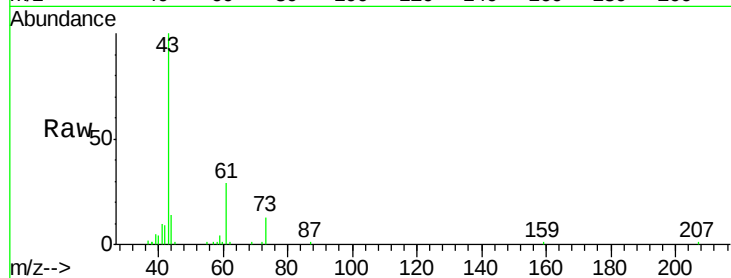
#43
Isopropyl Acetate
Concen: 21.936 ug/l
RT: 6.98 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.1	24.3	36.5
87	0.8	0.2	0.4

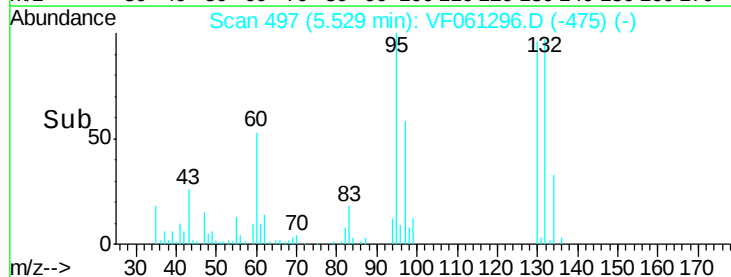
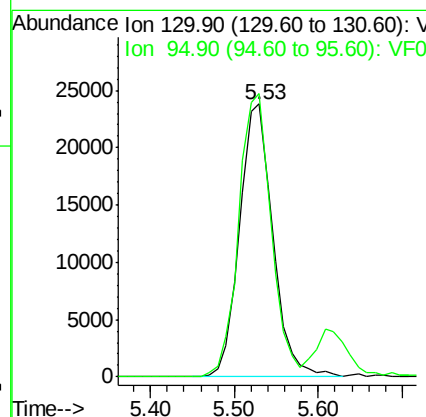
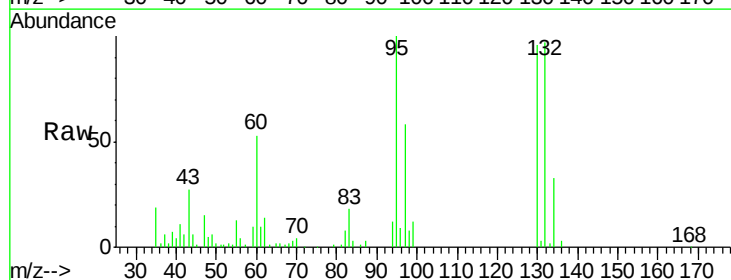
Manual Integrations
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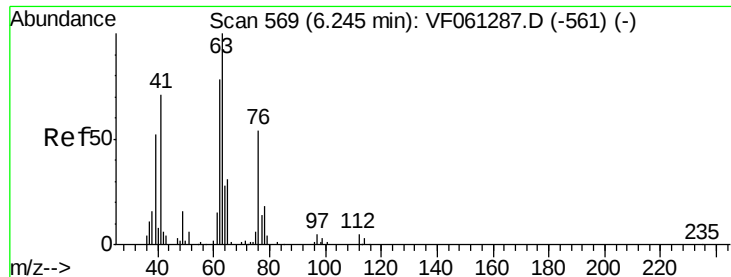
MMDadoda
1/10/2019 2:02:40 PM



#44
Trichloroethene
Concen: 23.461 ug/l
RT: 5.53 min Scan# 497
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.9	0.0	184.4





#45

1,2-Dichloropropane

Concen: 23.248 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion: 63 Resp: 56701

Ion Ratio Lower Upper

63 100

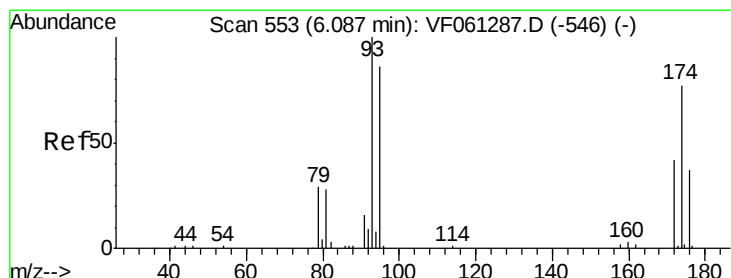
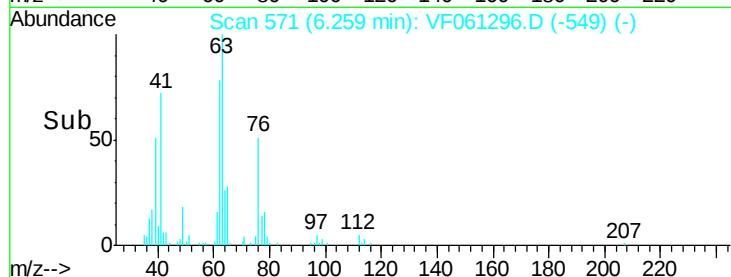
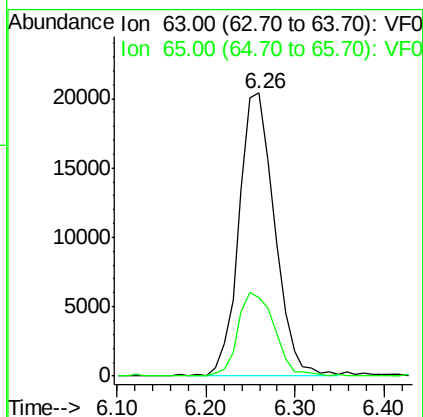
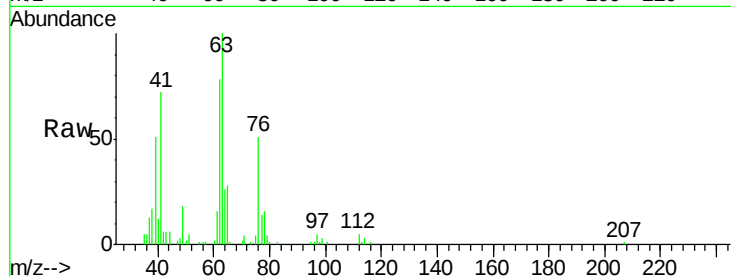
65 28.0 25.1 37.7

Manual Integrations

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#46

Dibromomethane

Concen: 21.993 ug/l

RT: 6.11 min Scan# 556

Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

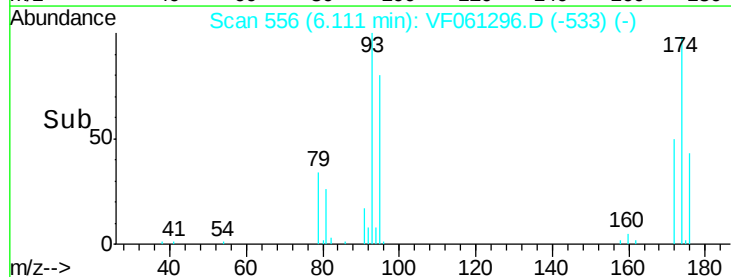
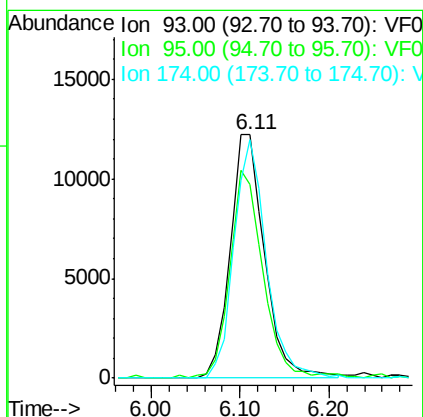
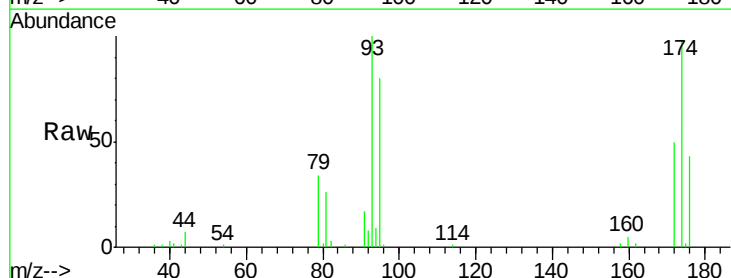
Tgt Ion: 93 Resp: 32935

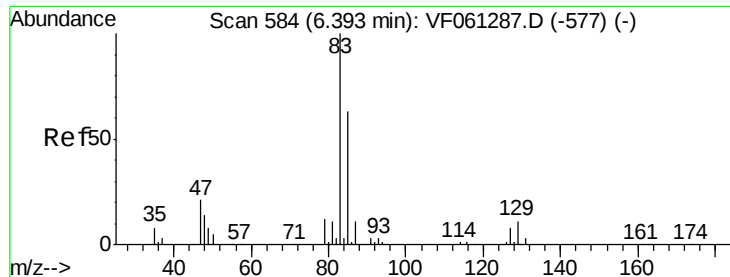
Ion Ratio Lower Upper

93 100

95 79.5 68.8 103.2

174 97.8 62.9 94.3#





#47

Bromodichloromethane

Concen: 22.145 ug/l

RT: 6.41 min Scan# 586

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

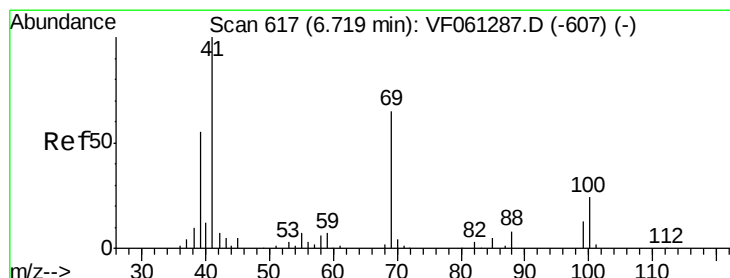
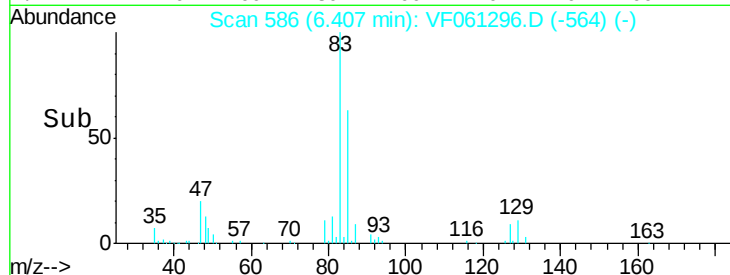
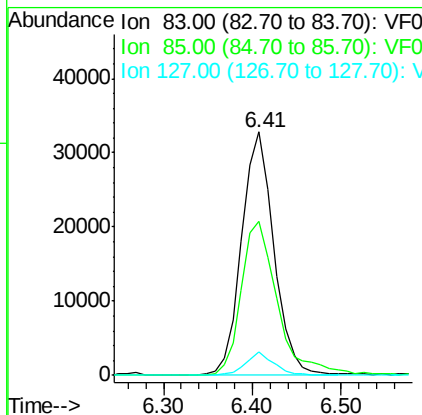
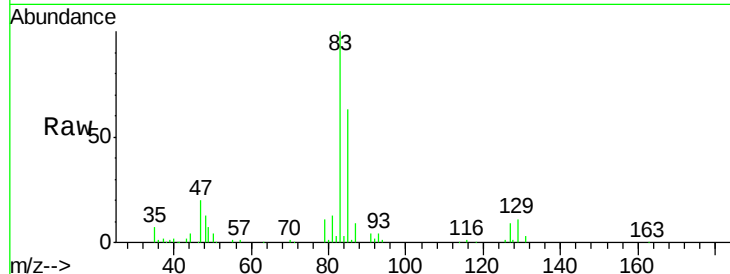
ClientSampleId :

VF0109SBSD01

Tot Ion:	83	Resp:	82475
Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.4	75.6
127	9.6	6.4	9.6#

Manual Integrations
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#48

Methyl methacrylate

Concen: 24.145 ug/l

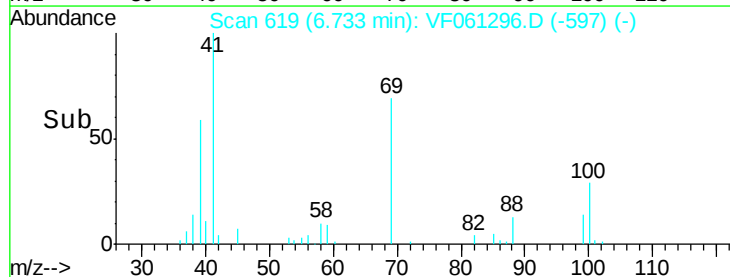
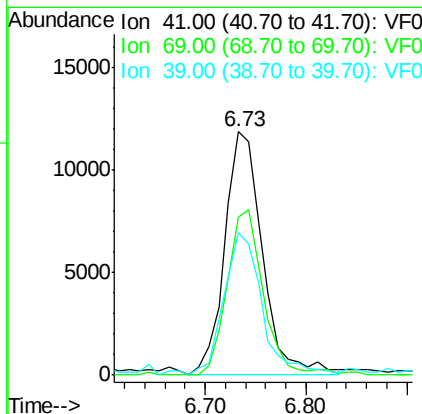
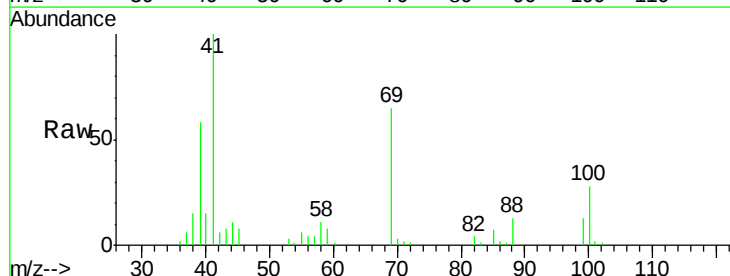
RT: 6.73 min Scan# 619

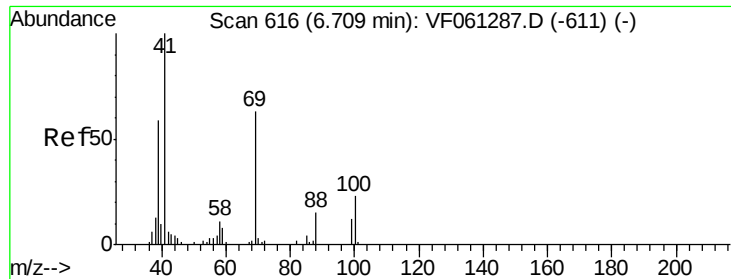
Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion:	41	Resp:	30955
Ion	Ratio	Lower	Upper
41	100		
69	65.0	51.5	77.3
39	58.4	44.1	66.1





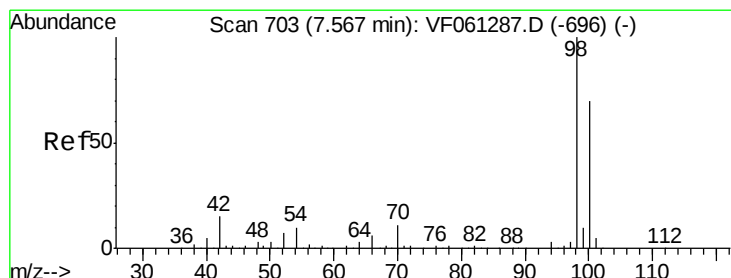
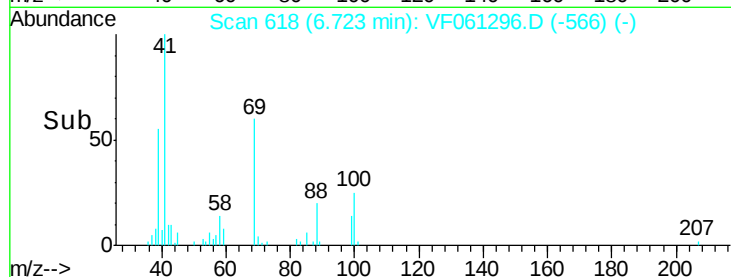
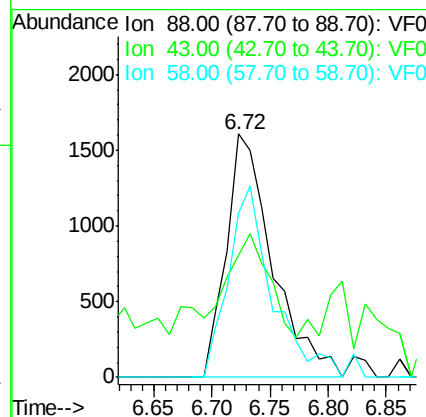
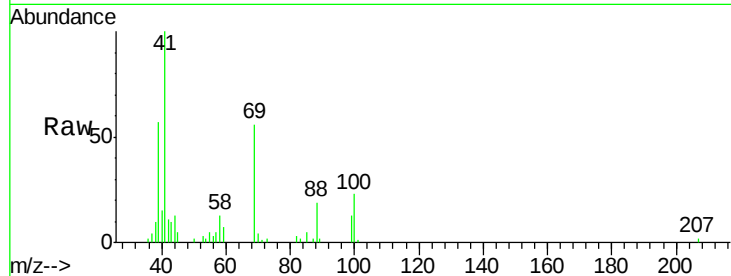
#49
1,4-Dioxane
Concen: 549.851 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	50.1	38.5	57.7
58	67.4	57.0	85.4

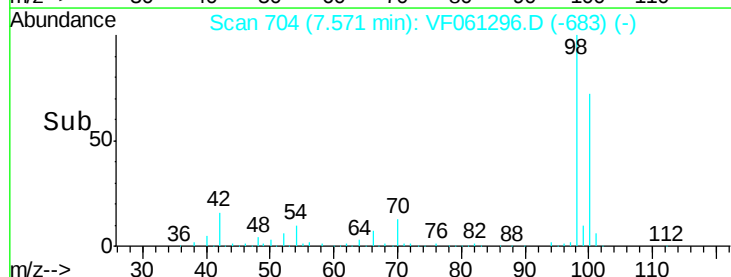
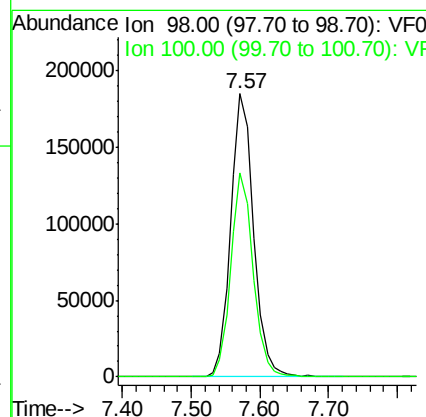
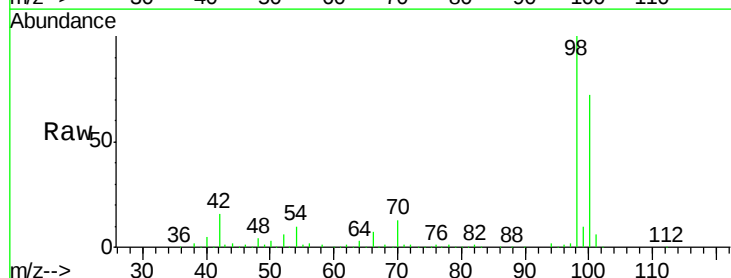
Manual Integrations
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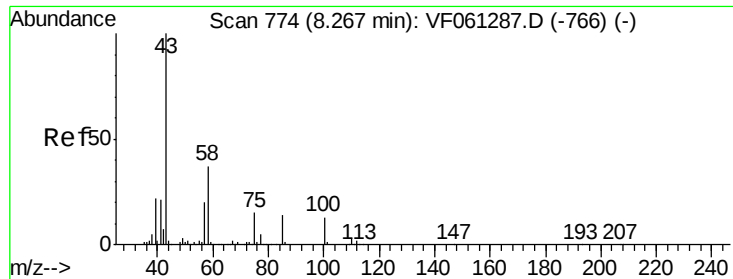
MMDadoda
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#50
Toluene-d8
Concen: 53.485 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	72.0	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 111.822 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD01

Tot Ion: 43 Resp: 166706

Ion Ratio Lower Upper

43 100

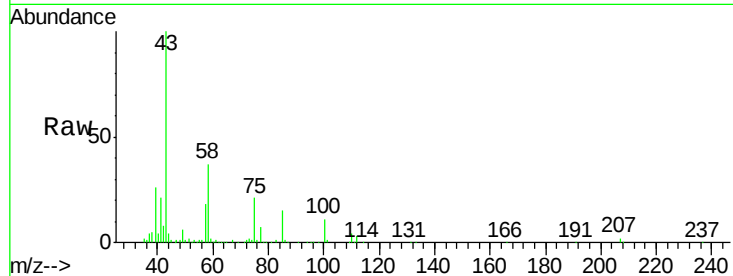
58 37.3 29.6 44.4

Manual Integrations

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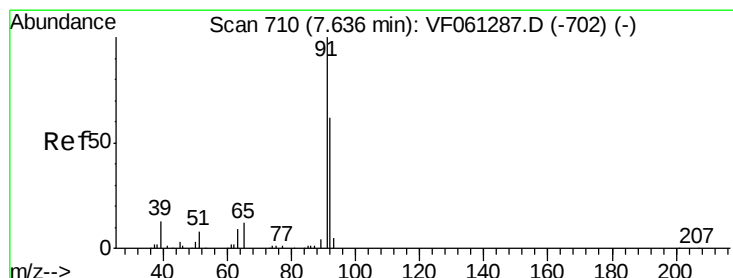
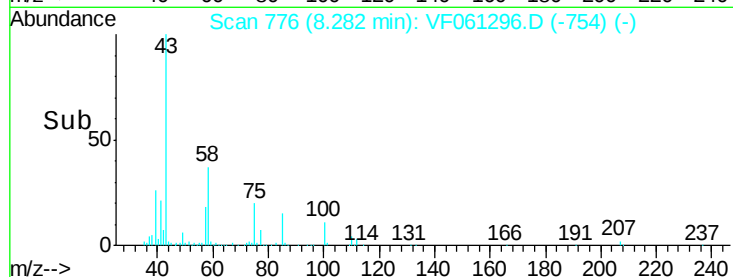
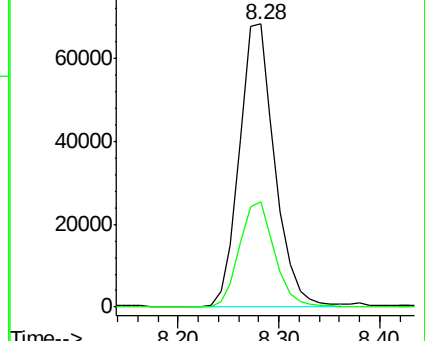
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.167 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.00 min

Lab File: VF061296.D

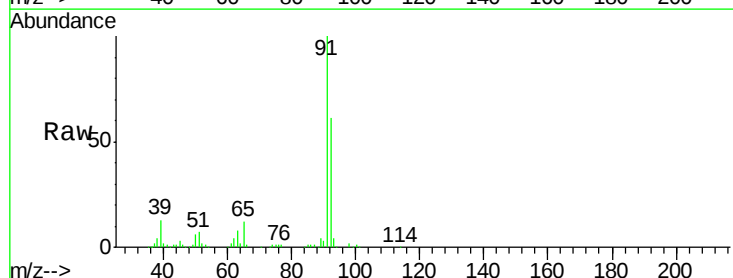
Acq: 9 Jan 2019 12:50

Tgt Ion: 92 Resp: 136656

Ion Ratio Lower Upper

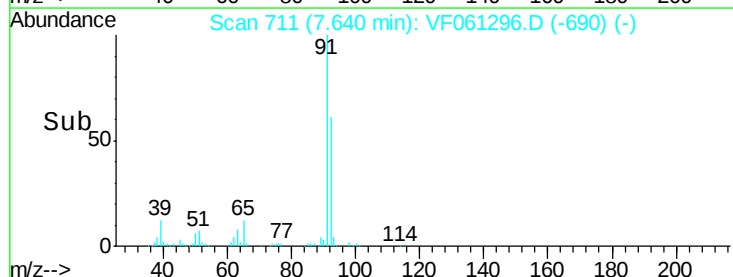
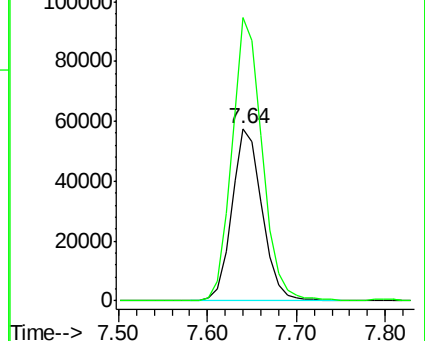
92 100

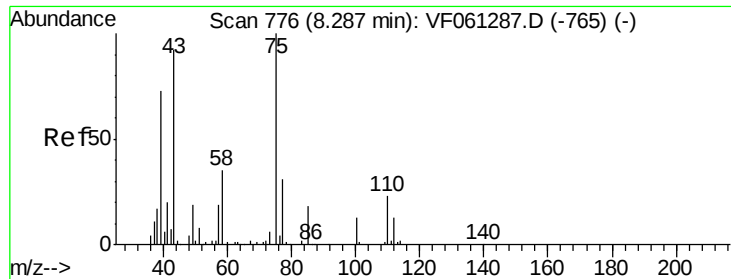
91 164.2 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 22.394 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD01

Tot Ion: 75 Resp: 65498

Ion Ratio Lower Upper

75 100

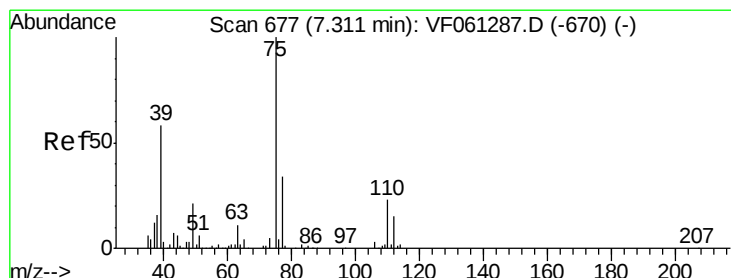
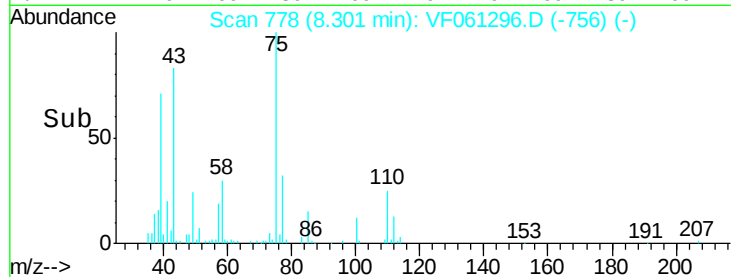
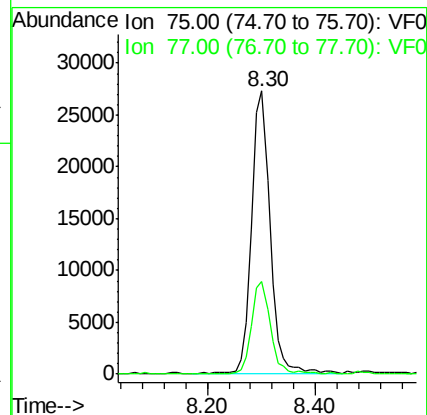
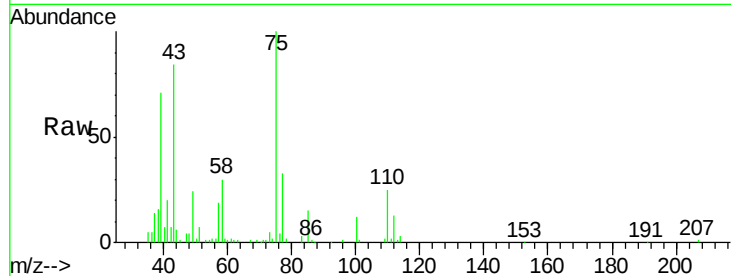
77 32.6 24.7 37.1

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 21.811 ug/l

RT: 7.32 min Scan# 679

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

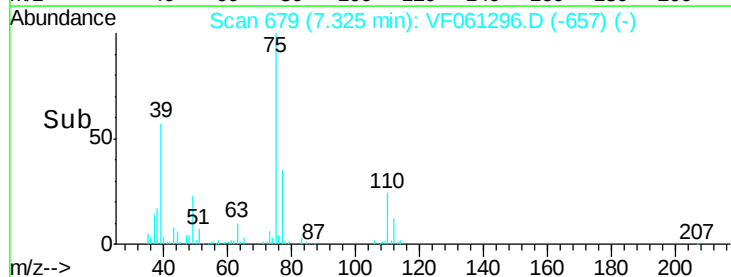
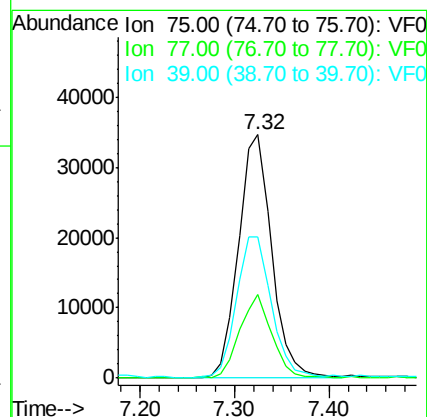
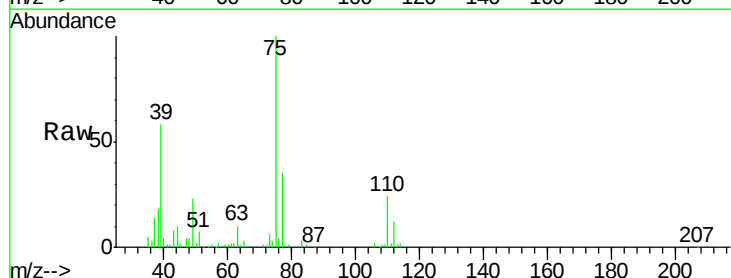
Tgt Ion: 75 Resp: 84584

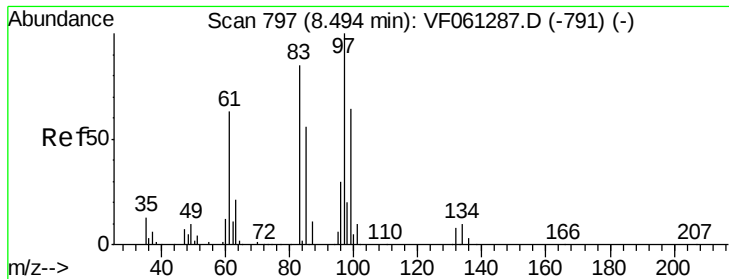
Ion Ratio Lower Upper

75 100

77 34.6 27.3 40.9

39 57.9 46.3 69.5





#55

1,1,2-Trichloroethane

Concen: 21.260 ug/l

RT: 8.52 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

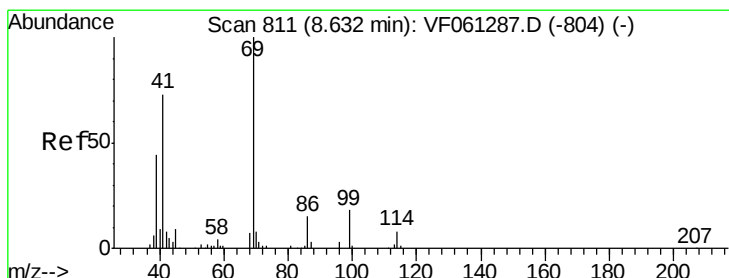
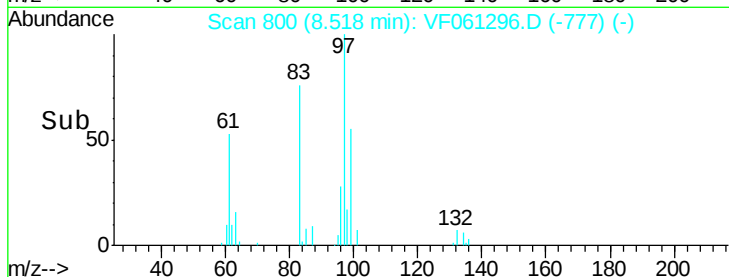
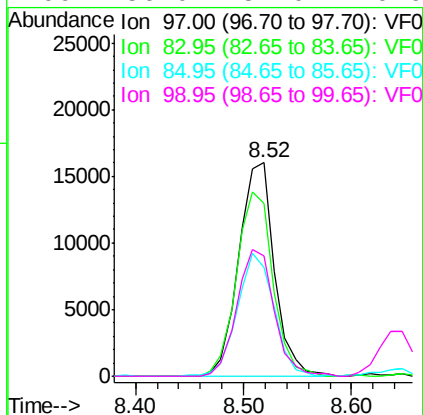
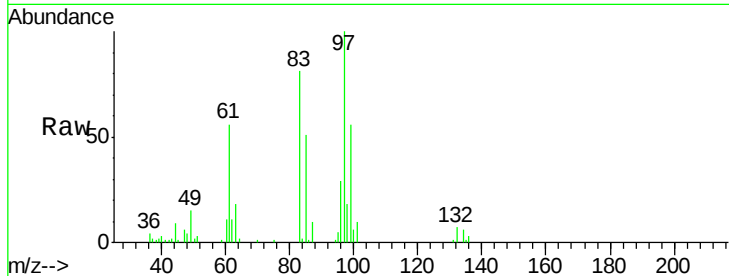
ClientSampleId :

VF0109SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	80.6	67.8	101.6	
85	51.2	45.1	67.7	
99	56.0	51.0	76.6	

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#56

Ethyl methacrylate

Concen: 22.976 ug/l

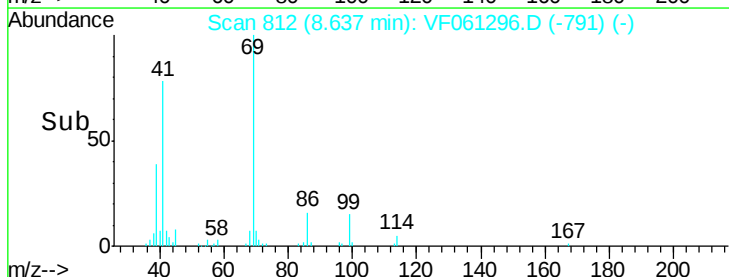
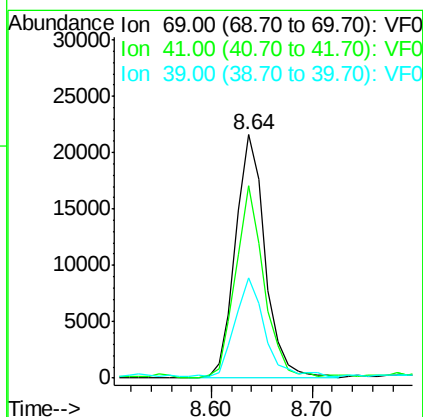
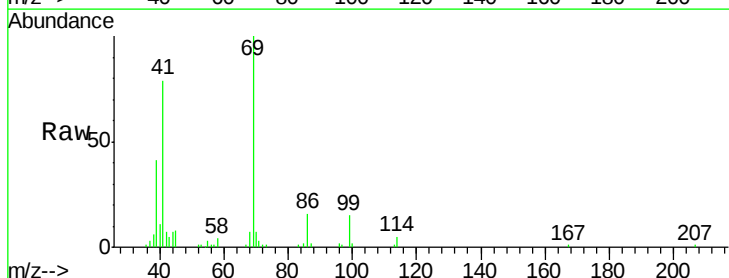
RT: 8.64 min Scan# 812

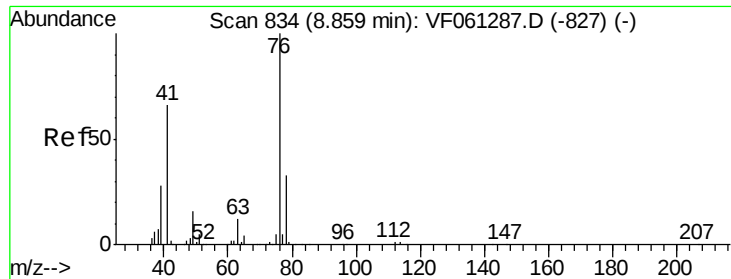
Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	79.0	59.0	88.4	
39	41.2	35.3	52.9	





#57

1,3-Dichloropropane

Concen: 22.769 ug/l

RT: 8.87 min Scan# 836

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD01

Tot Ion: 76 Resp: 69513

Ion Ratio Lower Upper

76 100

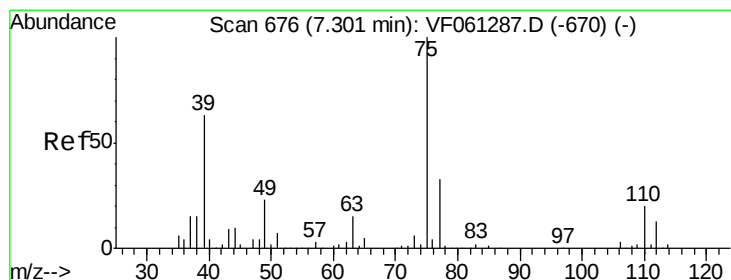
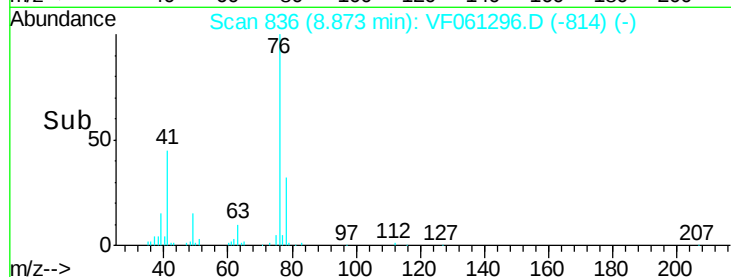
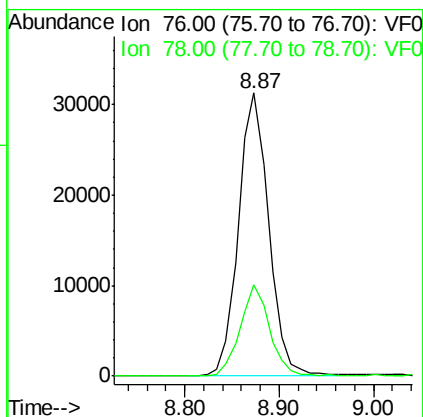
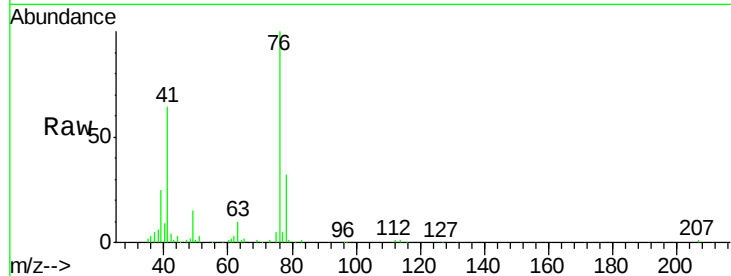
78 32.2 26.8 40.2

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 122.271 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.01 min

Lab File: VF061296.D

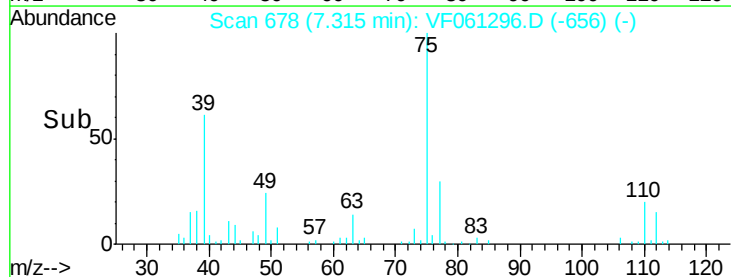
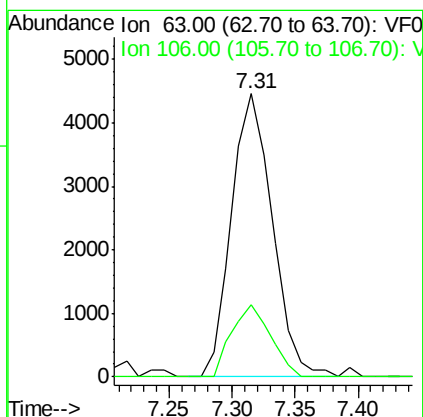
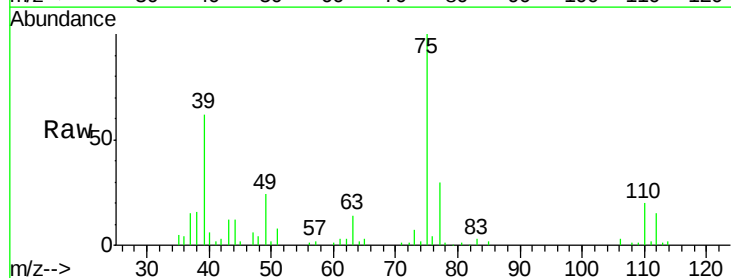
Acq: 9 Jan 2019 12:50

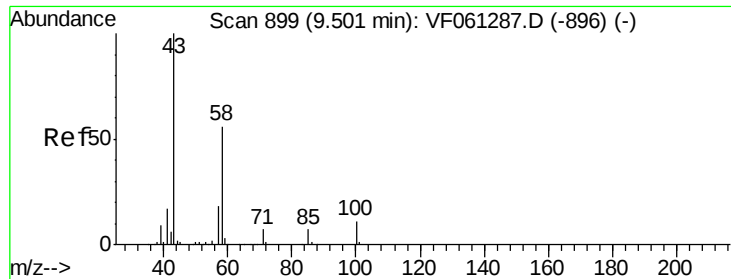
Tgt Ion: 63 Resp: 10046

Ion Ratio Lower Upper

63 100

106 25.4 16.5 24.7#





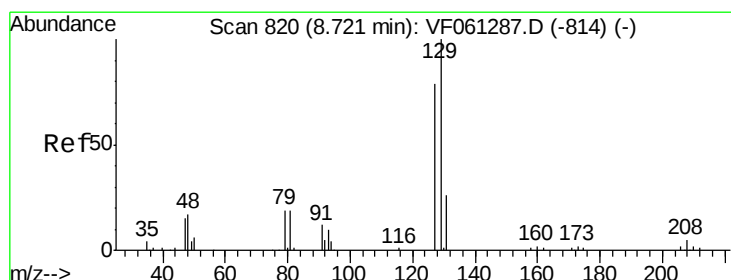
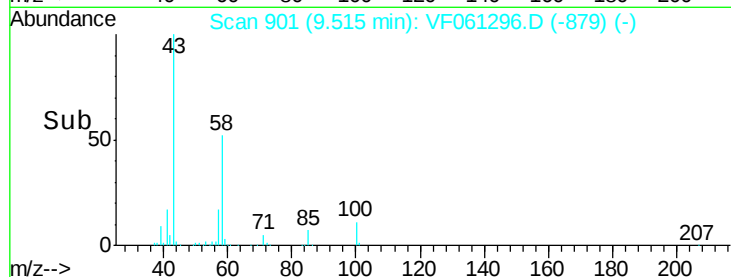
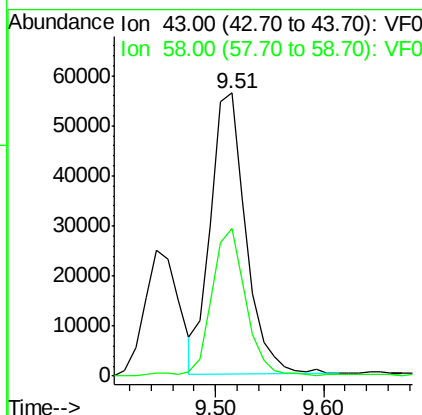
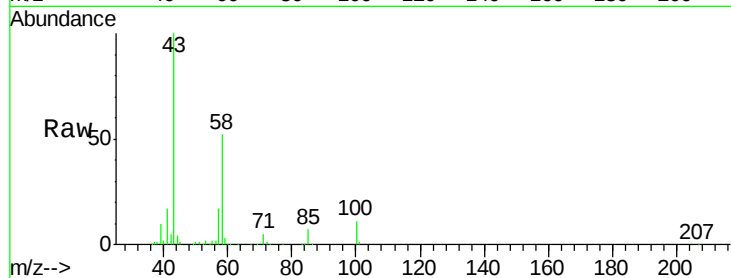
#59
2-Hexanone
Concen: 120.335 ug/l
RT: 9.51 min Scan# 901
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

Tot Ion: 43 Resp: 127094
Ion Ratio Lower Upper
43 100
58 52.3 25.6 76.8

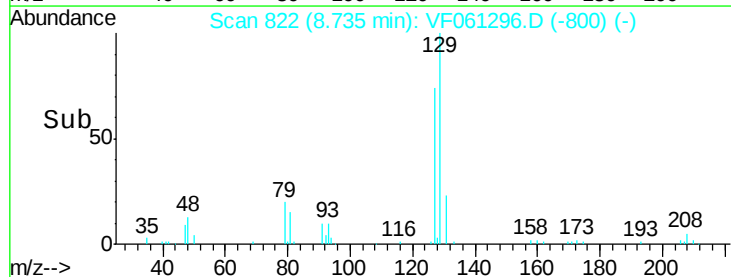
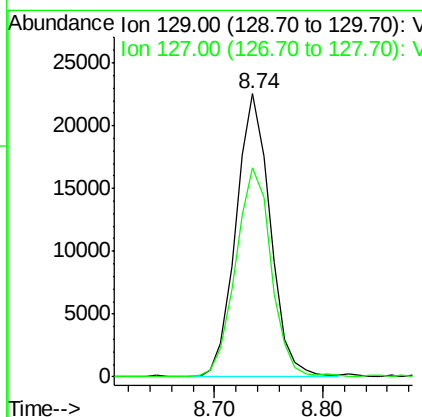
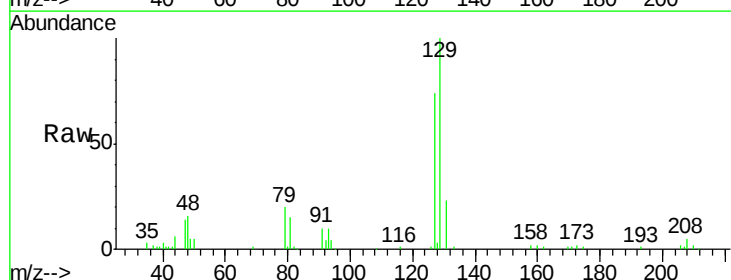
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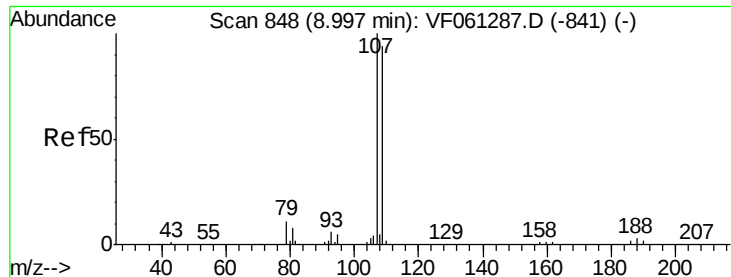
MMDadoda
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#60
Dibromochloromethane
Concen: 21.697 ug/l
RT: 8.74 min Scan# 822
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion: 129 Resp: 49840
Ion Ratio Lower Upper
129 100
127 73.9 39.4 118.1





#61

1,2-Dibromoethane

Concen: 21.670 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion:107 Resp: 38106

Ion Ratio Lower Upper

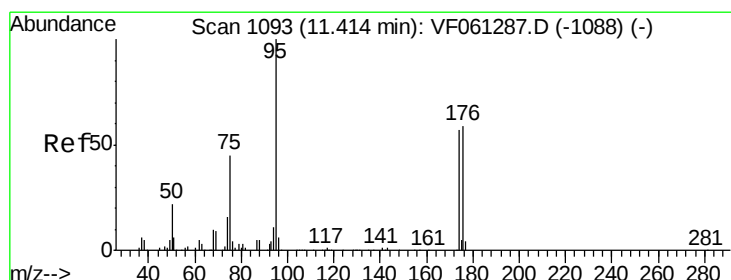
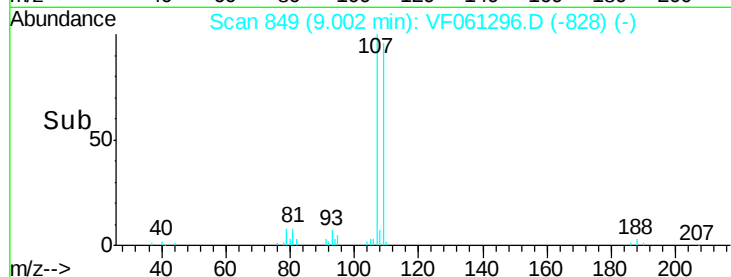
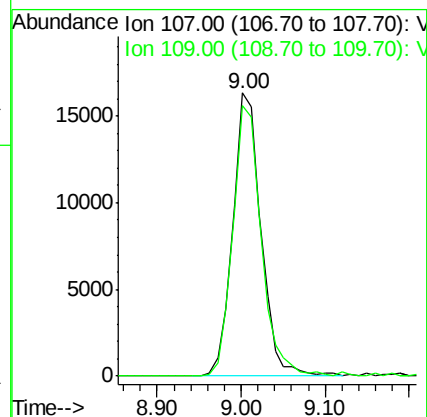
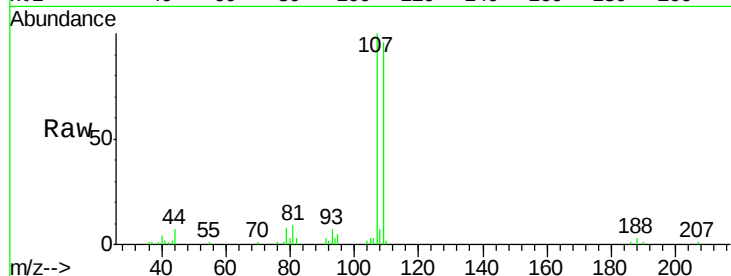
107 100

109 95.5 75.1 112.7

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#62

4-Bromofluorobenzene

Concen: 51.938 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

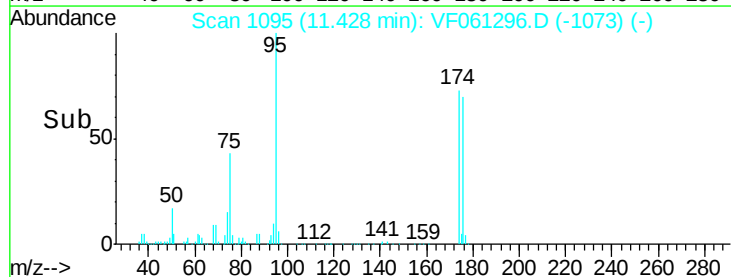
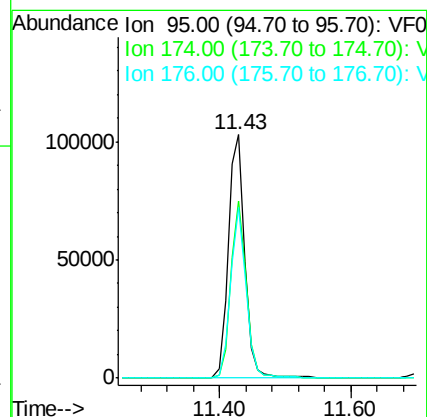
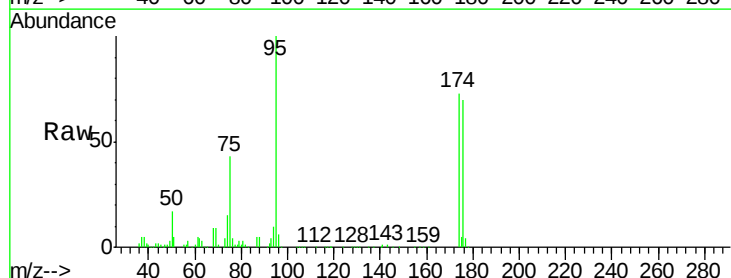
Tgt Ion: 95 Resp: 180657

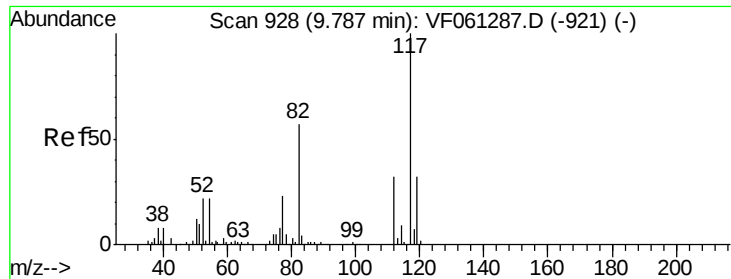
Ion Ratio Lower Upper

95 100

174 72.8 0.0 114.2

176 69.9 0.0 117.8





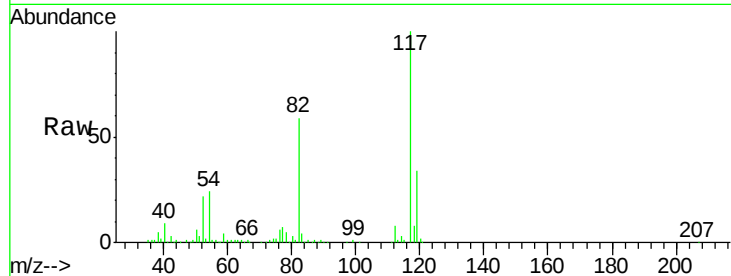
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

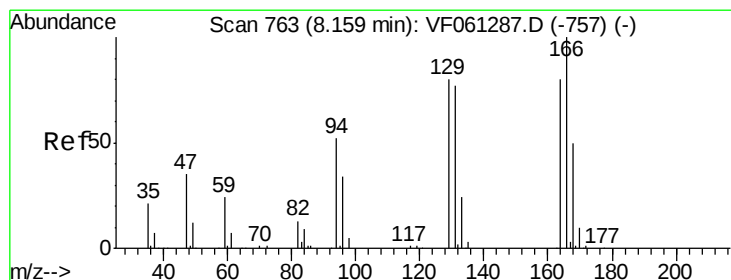
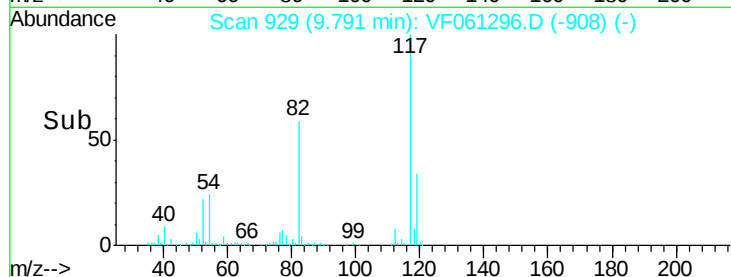
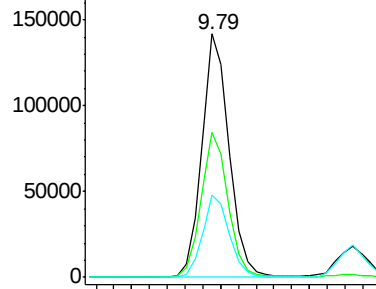
Tot Ion	Ratio	Resp	Lower	Upper
117	100	305370		
82	59.5	45.3	67.9	
119	33.6	25.4	38.0	

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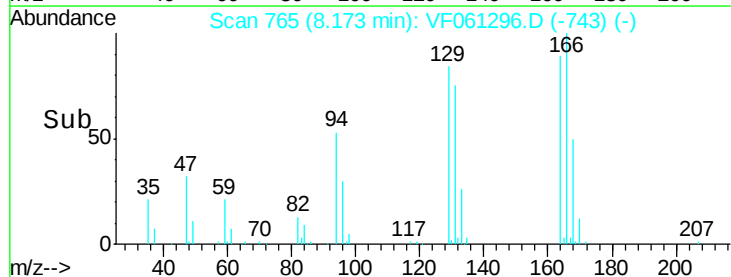
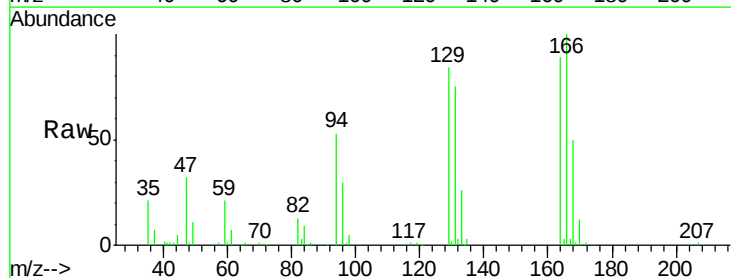
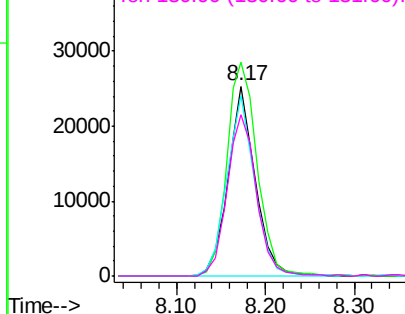
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF061296.D (-908) (-)
Ion 119.00 (118.70 to 119.70): V

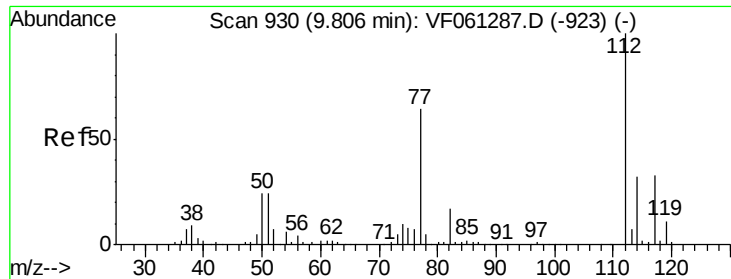


#64
Tetrachloroethene
Concen: 24.379 ug/l
RT: 8.17 min Scan# 765
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	54203		
166	112.5	100.1	150.1	
129	95.0	80.1	120.1	
131	84.9	76.7	115.1	

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





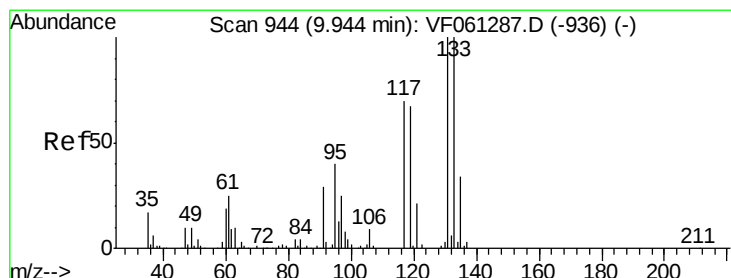
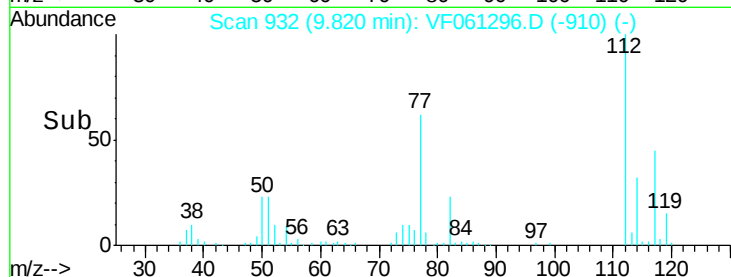
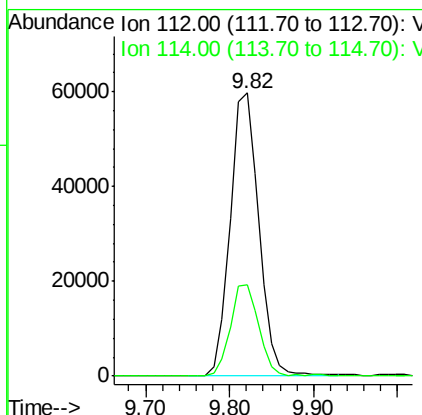
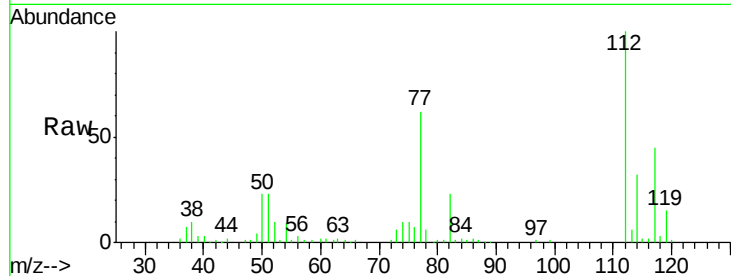
#65
Chlorobenzene
Concen: 23.035 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

Tot Ion:112 Resp: 142042
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.8

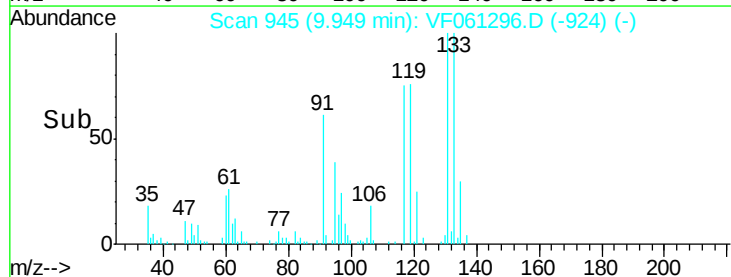
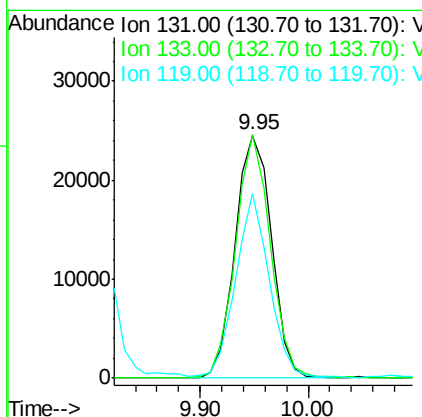
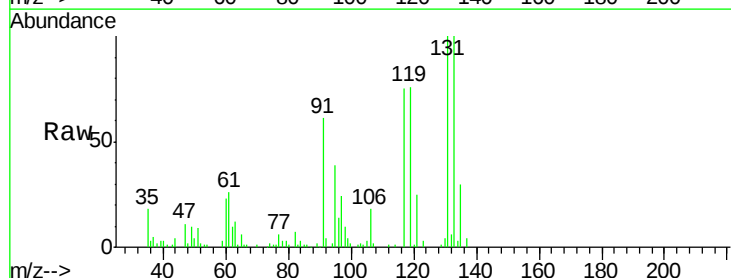
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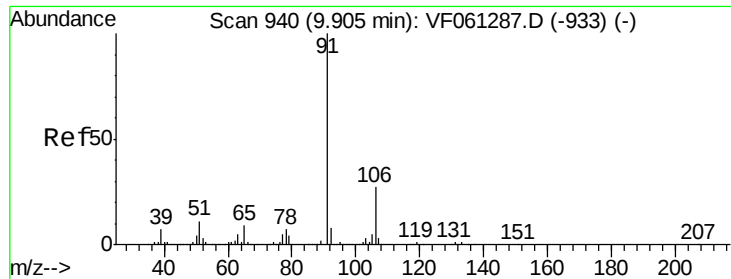
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.850 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion:131 Resp: 57495
Ion Ratio Lower Upper
131 100
133 100.4 49.9 149.6
119 76.2 33.9 101.6





#67

Ethyl Benzene

Concen: 23.300 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion: 91 Resp: 277021

Ion Ratio Lower Upper

91 100

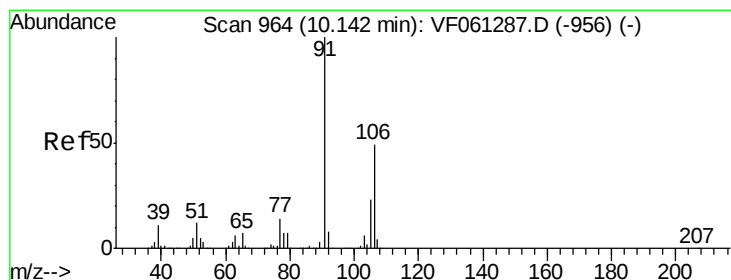
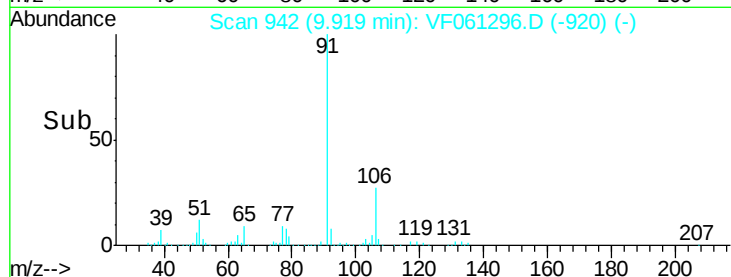
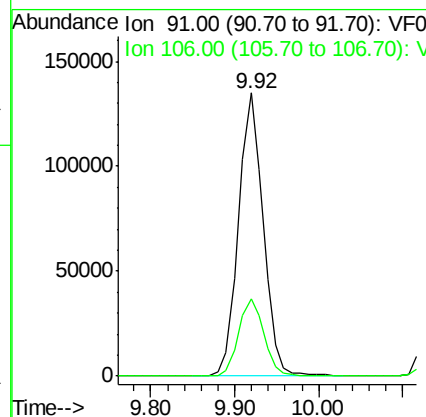
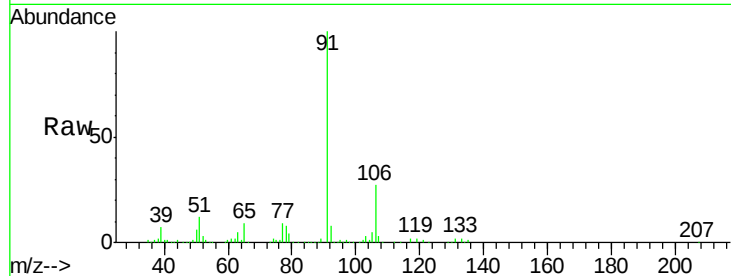
106 27.5 21.4 32.2

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#68

m/p-Xylenes

Concen: 47.981 ug/l

RT: 10.16 min Scan# 966

Delta R.T. 0.01 min

Lab File: VF061296.D

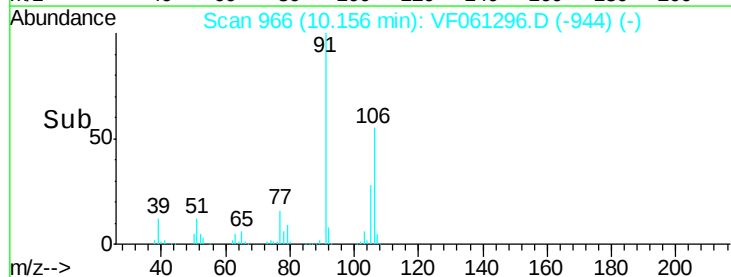
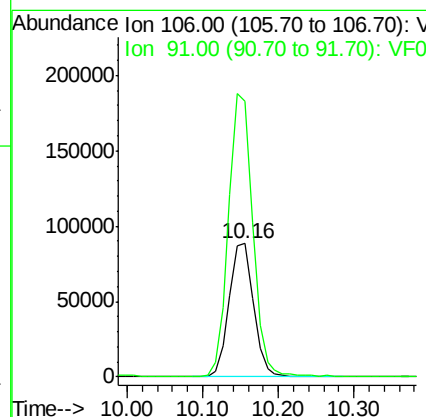
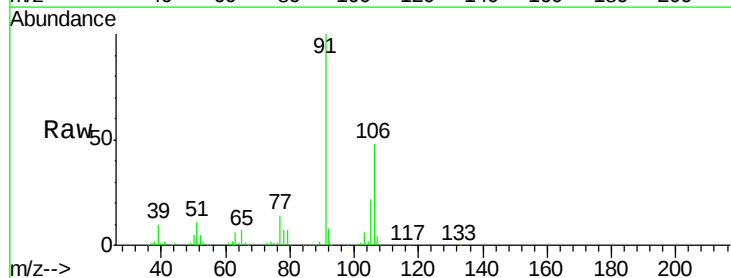
Acq: 9 Jan 2019 12:50

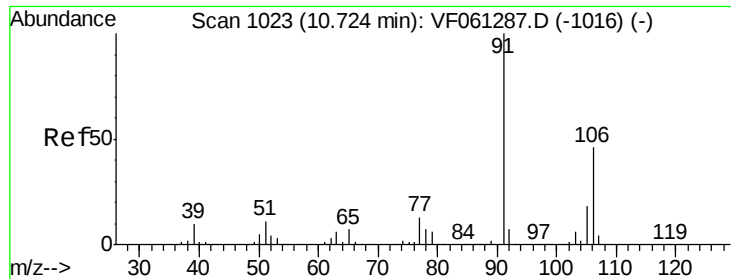
Tgt Ion: 106 Resp: 198993

Ion Ratio Lower Upper

106 100

91 207.2 165.0 247.6





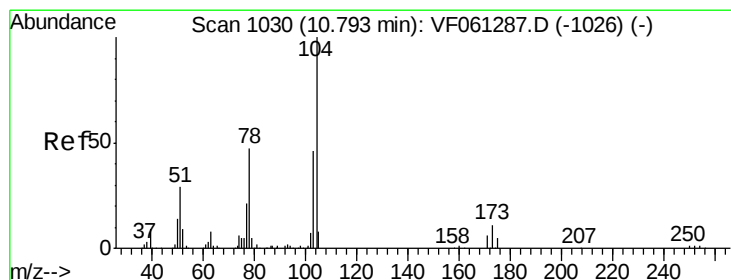
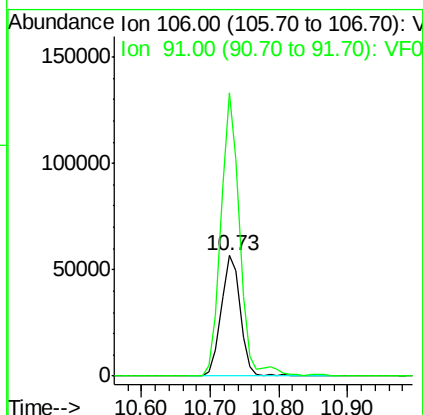
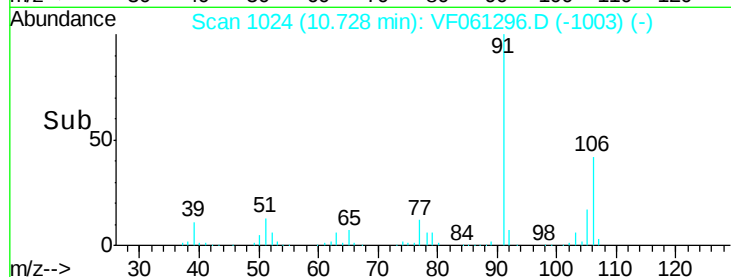
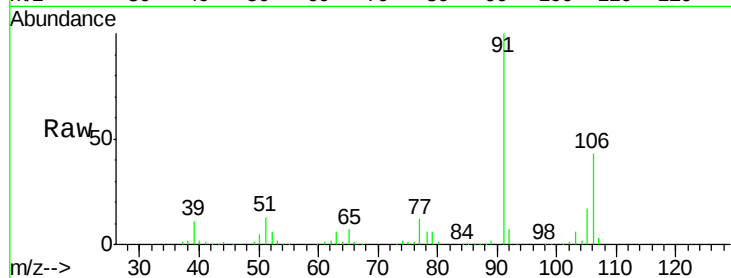
#69
o-Xylene
Concen: 23.762 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

Tot Ion:106 Resp: 110084
Ion Ratio Lower Upper
106 100
91 234.8 108.1 324.4

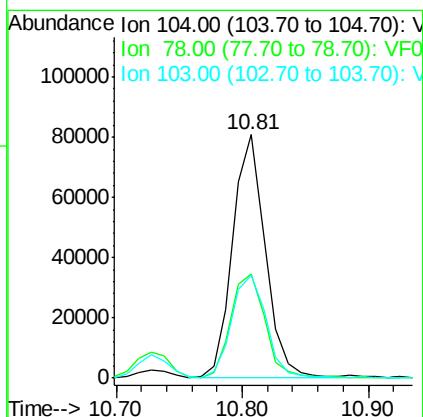
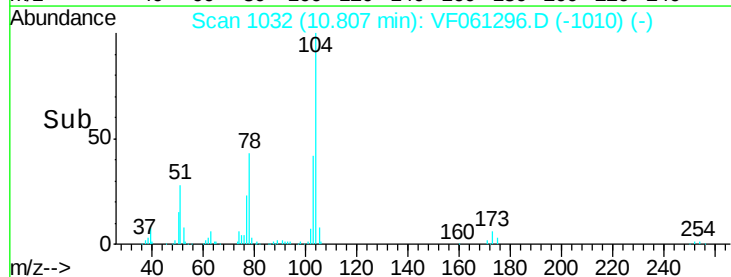
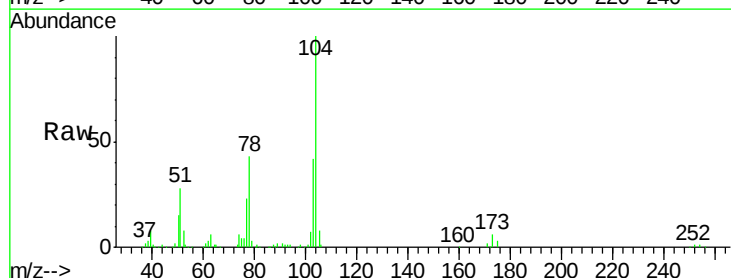
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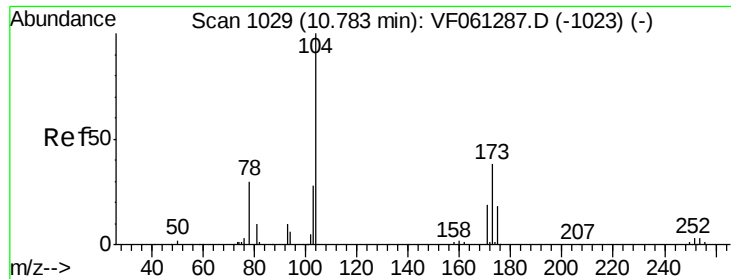
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#70
Styrene
Concen: 23.167 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion:104 Resp: 142979
Ion Ratio Lower Upper
104 100
78 42.6 38.0 57.0
103 42.3 36.7 55.1





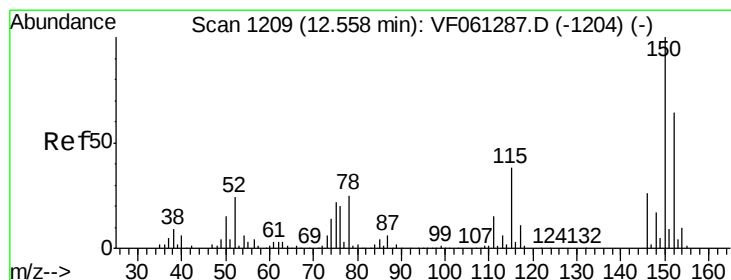
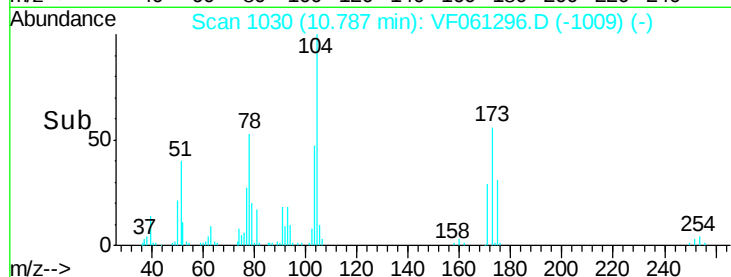
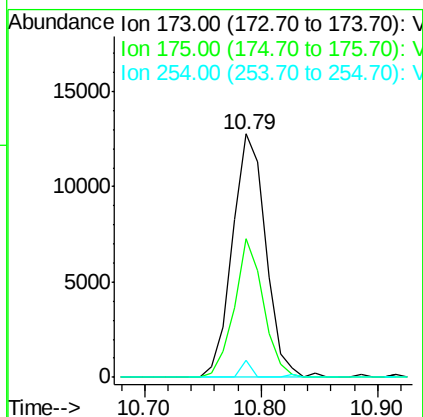
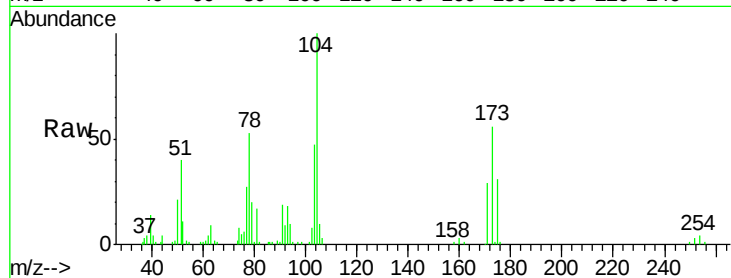
#71
Bromoform
Concen: 24.594 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	56.8	24.1	72.2
254	6.8	0.0	0.0

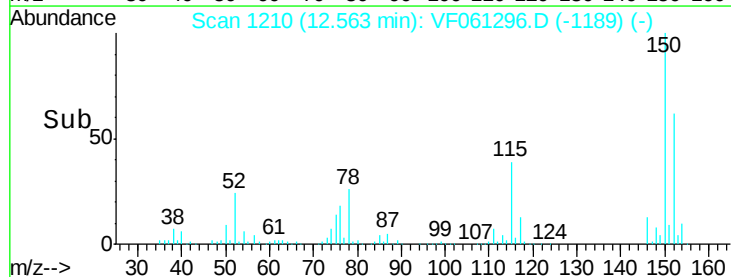
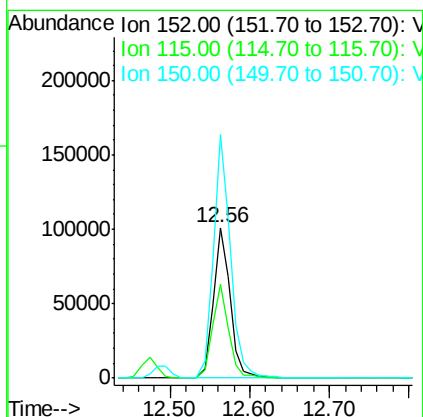
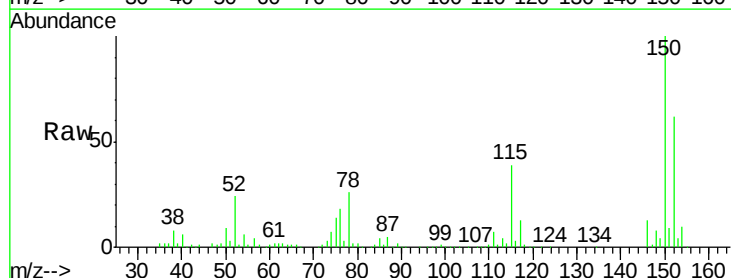
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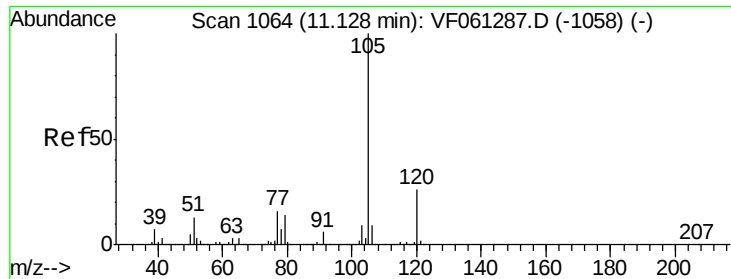
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.7	29.6	88.9
150	161.9	0.0	315.4





#73

Isopropylbenzene

Concen: 23.501 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBS01

Tot Ion:105 Resp: 312154

Ion Ratio Lower Upper

105 100

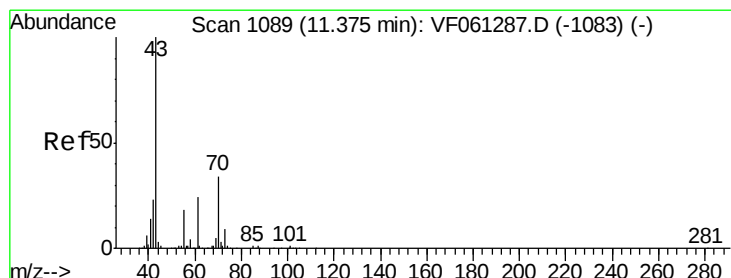
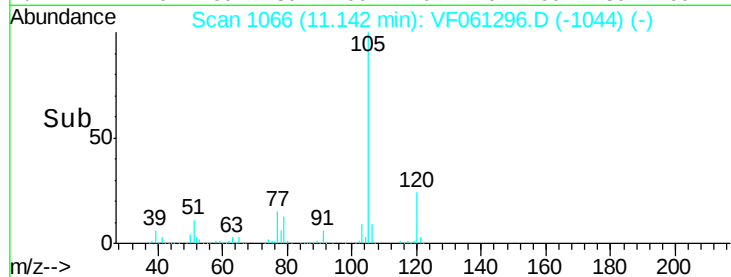
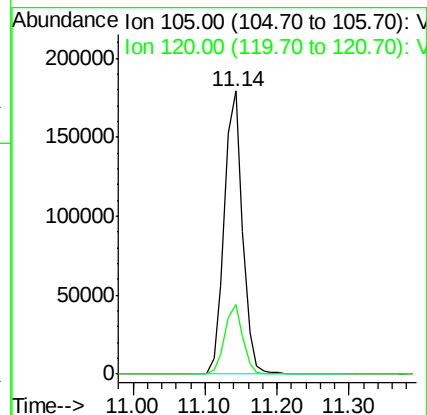
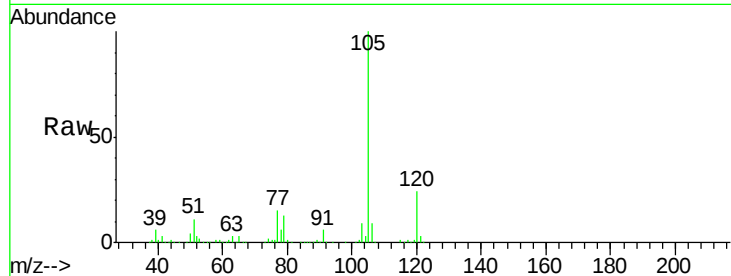
120 24.4 12.9 38.7

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#74

N-ethyl acetate

Concen: 26.016 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion: 43 Resp: 78551

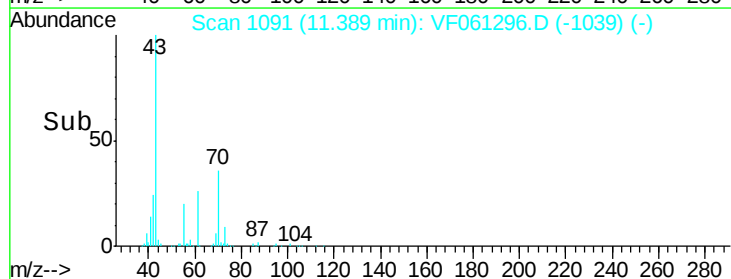
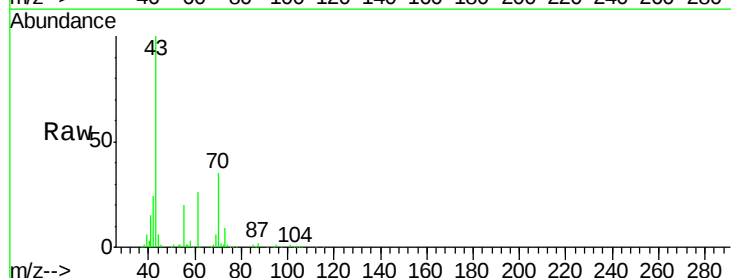
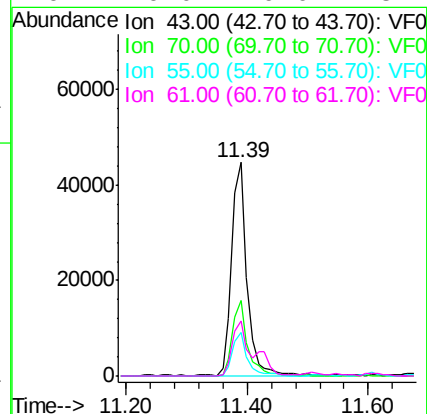
Ion Ratio Lower Upper

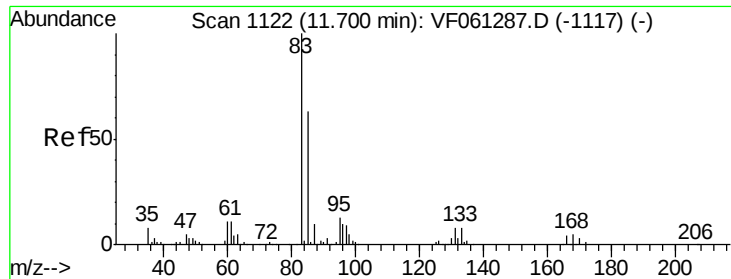
43 100

70 35.4 27.4 41.0

55 20.2 14.7 22.1

61 26.0 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 23.506 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

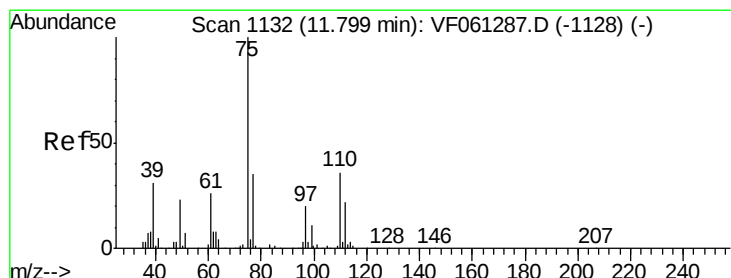
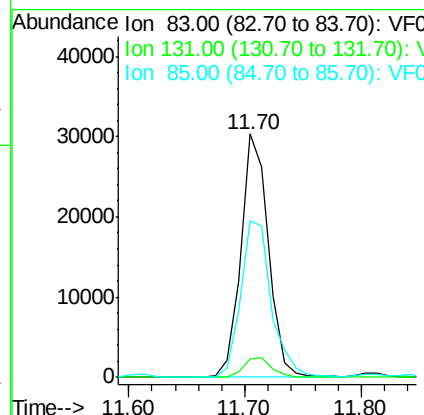
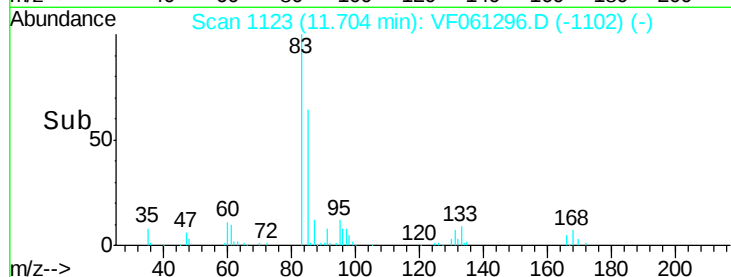
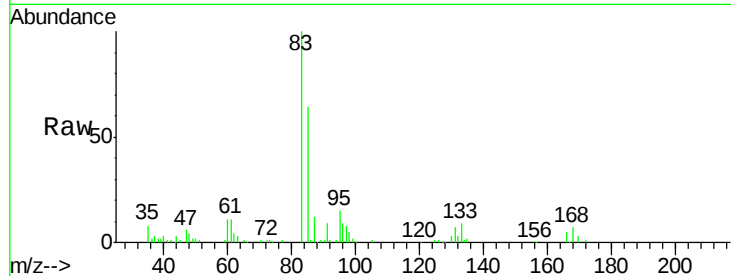
ClientSampleId :

VF0109SBS01

Tot Ion:	83	Resp:	49505
Ion Ratio	Lower	Upper	
83	100		
131	7.4	3.9	11.7
85	64.3	31.6	94.7

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#76

1,2,3-Trichloropropane

Concen: 23.038 ug/l

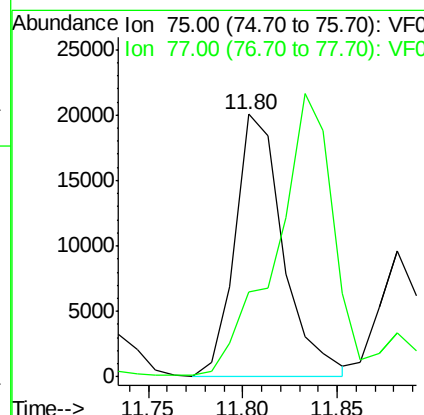
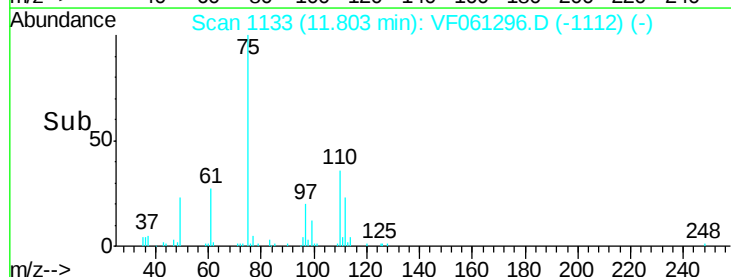
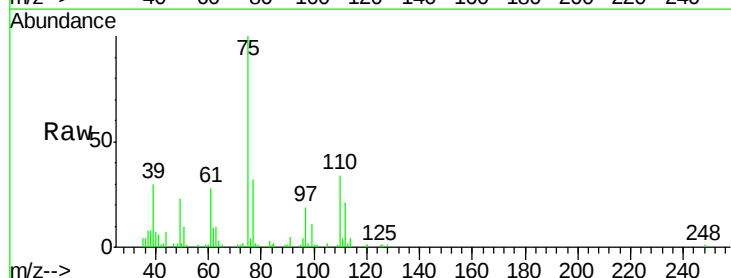
RT: 11.80 min Scan# 1133

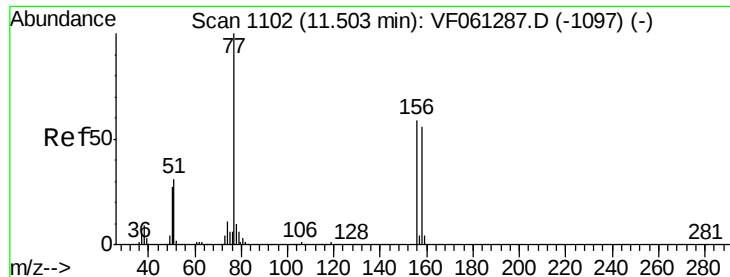
Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion:	75	Resp:	35585
Ion Ratio	Lower	Upper	
75	100		
77	32.3	17.5	52.5





#77

Bromobenzene

Concen: 23.501 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

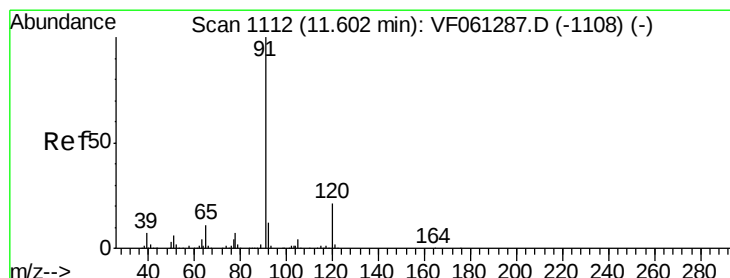
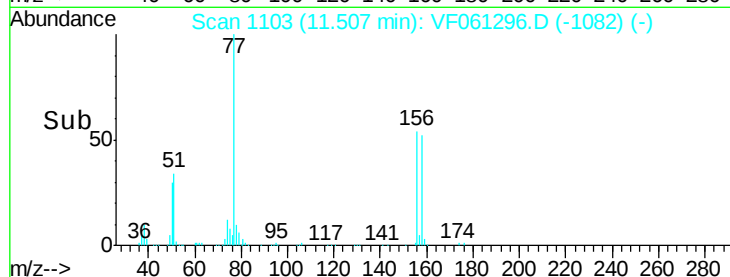
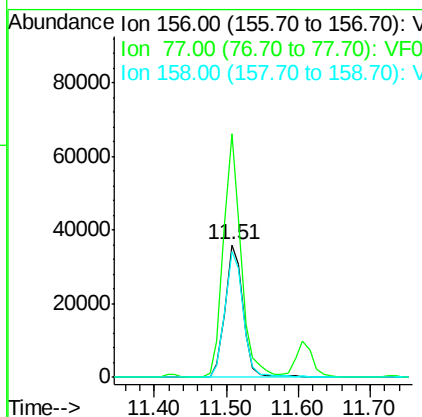
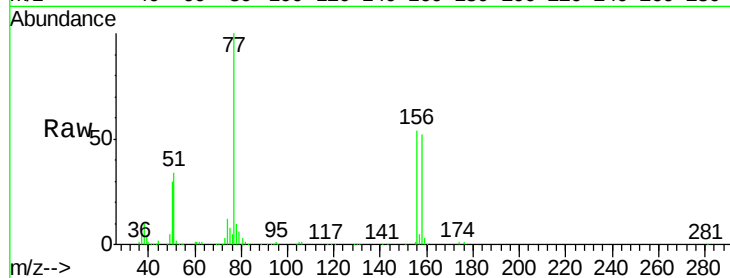
ClientSampleId :

VF0109SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	183.8	84.3	252.9	
158	95.1	47.1	141.3	

Manual Integrations
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#78

n-propylbenzene

Concen: 24.707 ug/l

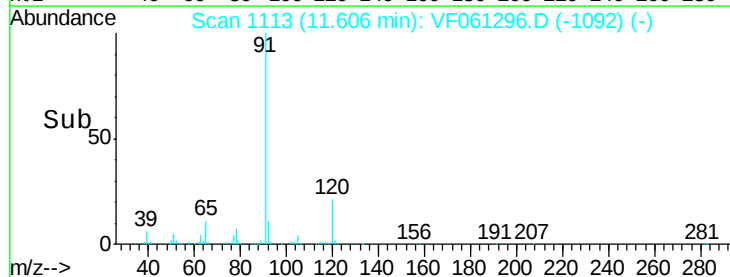
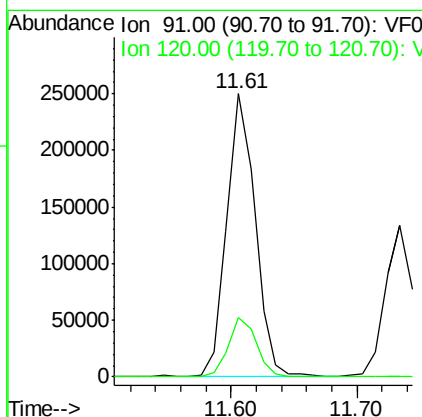
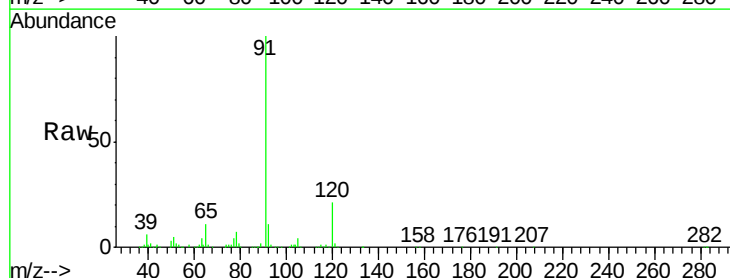
RT: 11.61 min Scan# 1113

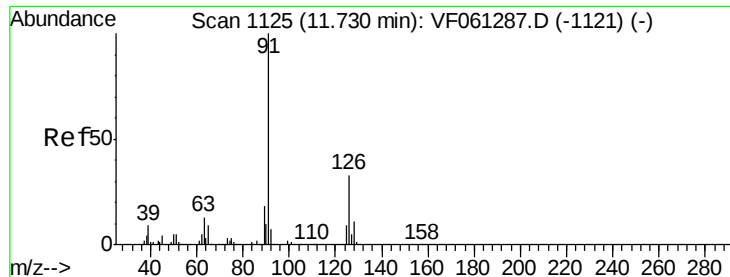
Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.8	10.7	32.1	





#79

2-Chlorotoluene

Concen: 23.343 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD01

Tot Ion: 91 Resp: 205964

Ion Ratio Lower Upper

91 100

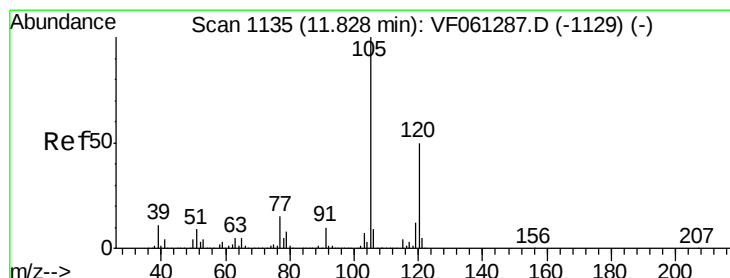
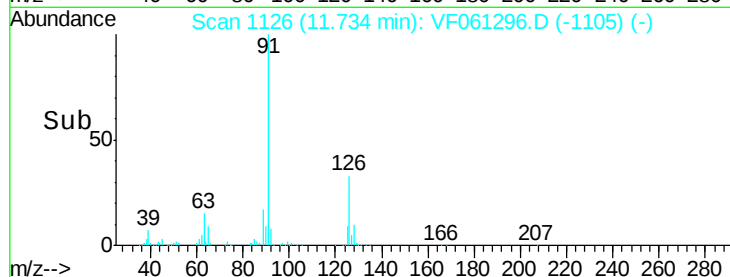
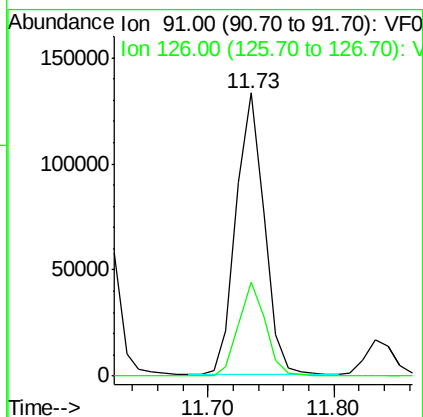
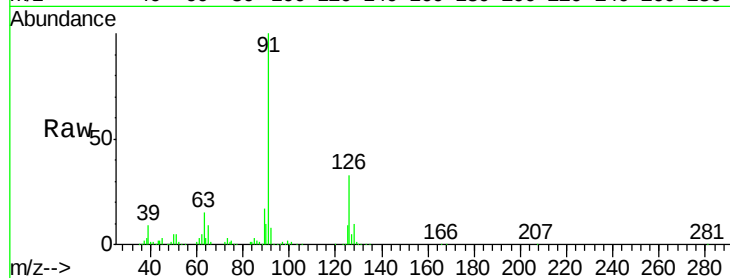
126 33.2 16.6 49.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 23.858 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF061296.D

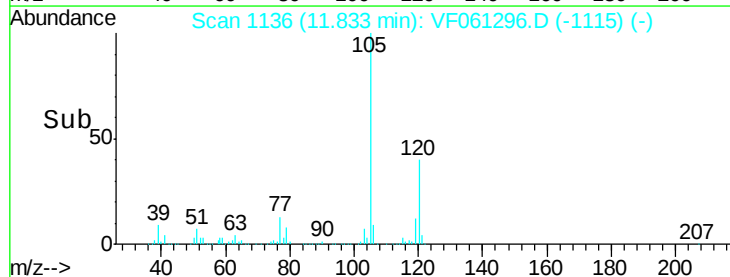
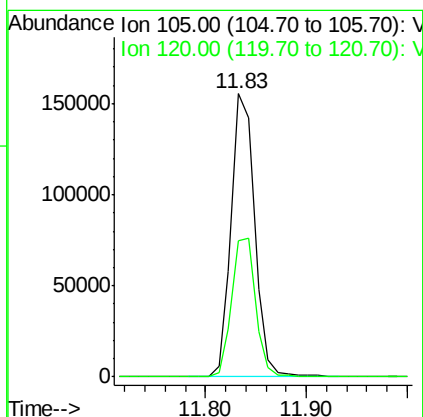
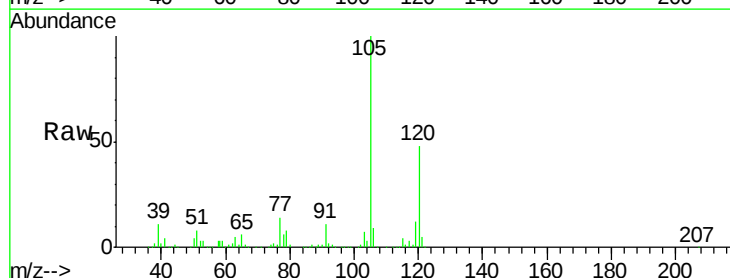
Acq: 9 Jan 2019 12:50

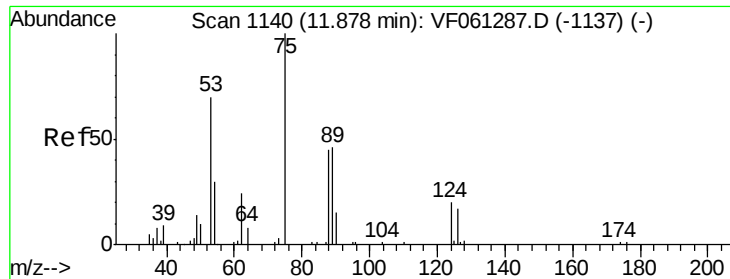
Tgt Ion: 105 Resp: 252153

Ion Ratio Lower Upper

105 100

120 48.0 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 23.163 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF061296.D

Acq: 9 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0109SBSD01

Tot Ion: 75 Resp: 15635

Ion Ratio Lower Upper

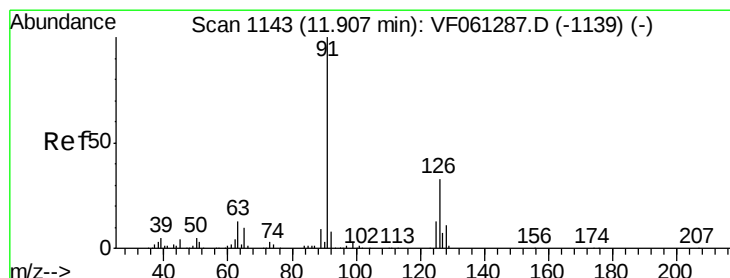
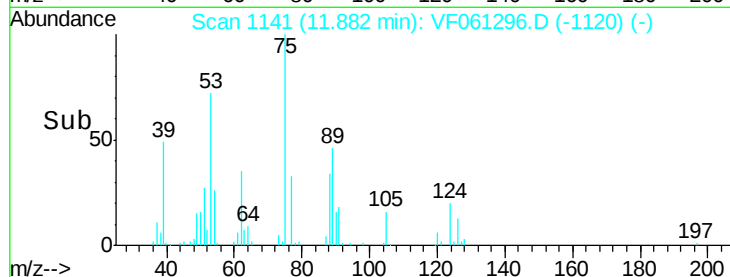
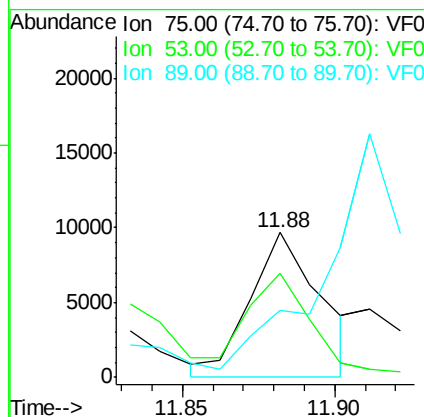
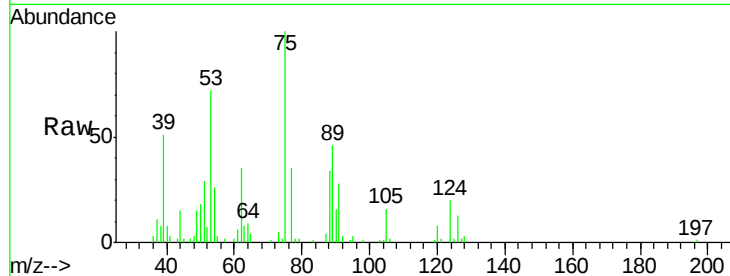
75 100

53 72.2 62.2 93.2

89 46.0 40.2 60.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 23.783 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF061296.D

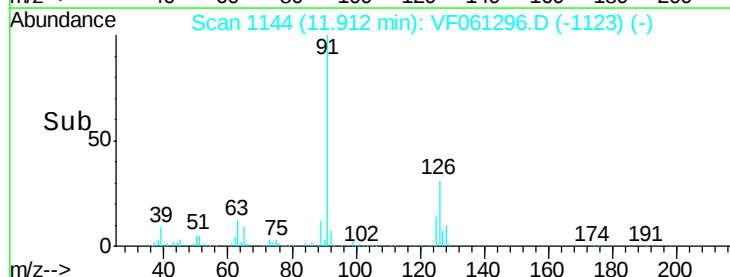
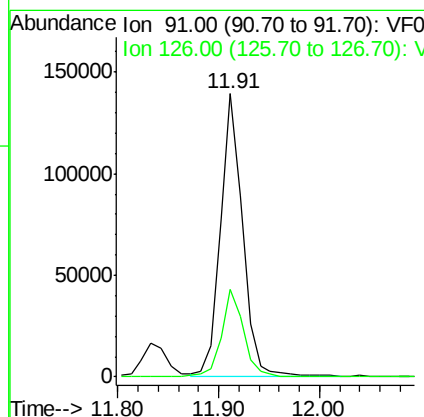
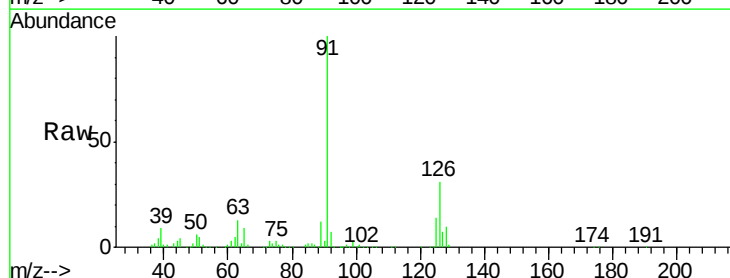
Acq: 9 Jan 2019 12:50

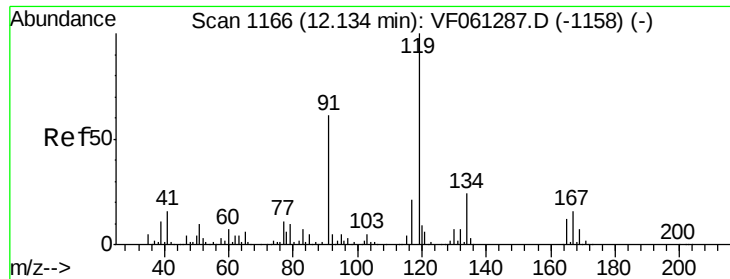
Tgt Ion: 91 Resp: 213232

Ion Ratio Lower Upper

91 100

126 30.8 16.4 49.4





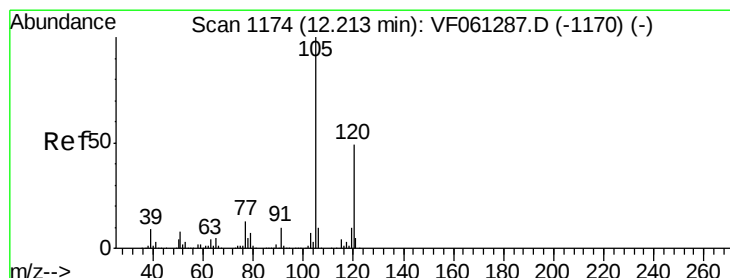
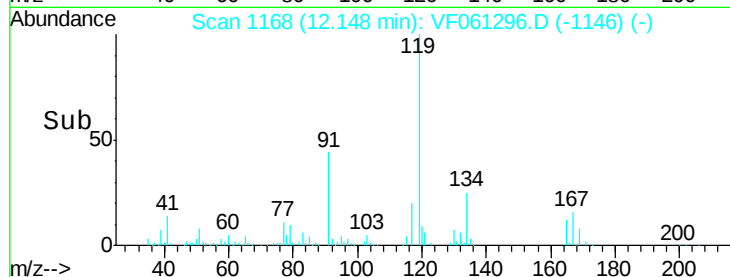
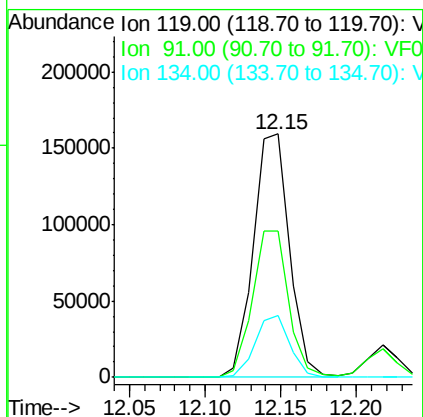
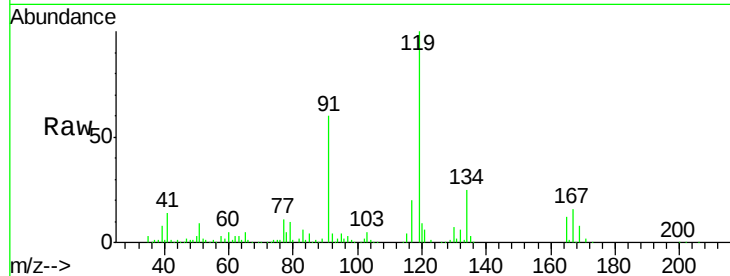
#83
tert-Butylbenzene
Concen: 25.364 ug/l
RT: 12.15 min Scan# 1168
Delta R.T. 0.01 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	267081		
91	60.1		30.8	92.4
134	25.3		11.9	35.9

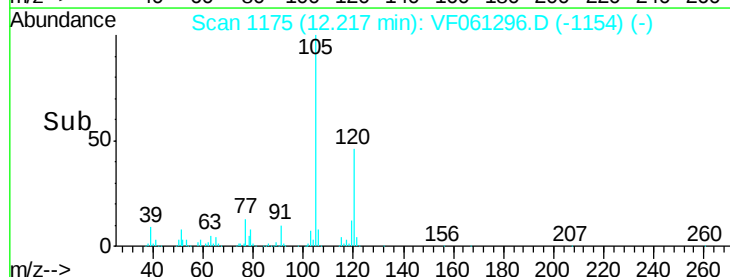
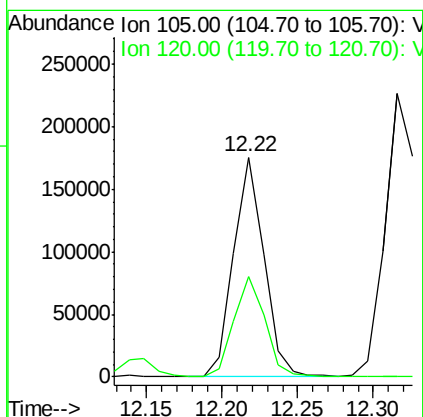
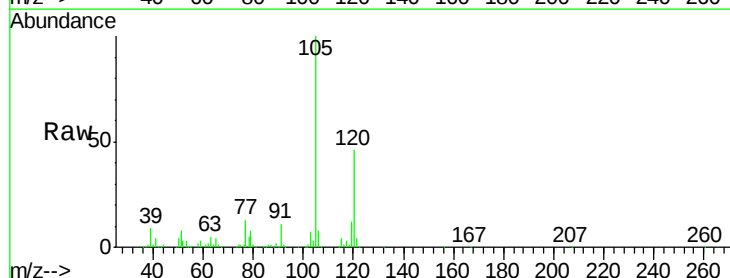
Manual Integrations
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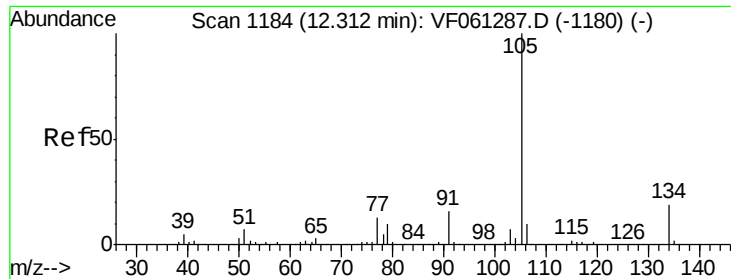
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 23.476 ug/l
RT: 12.22 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	246342		
120	45.9		24.7	74.1





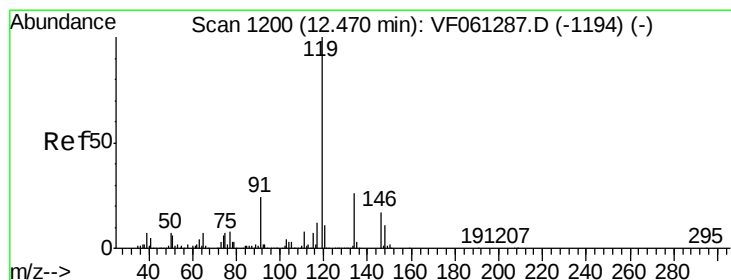
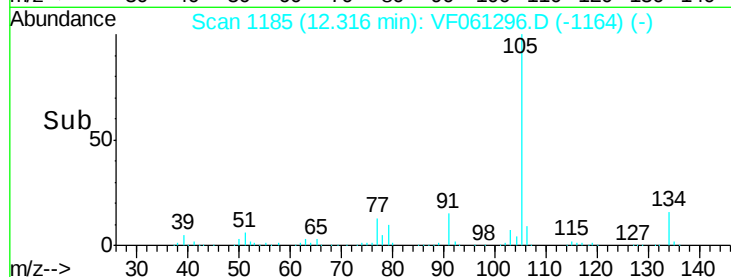
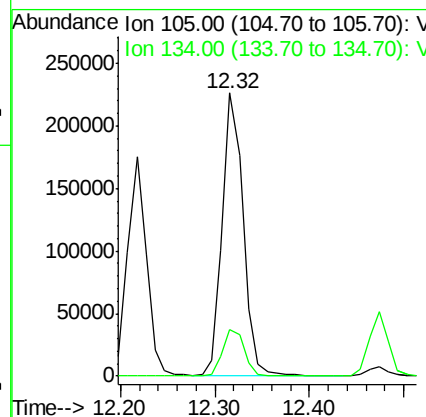
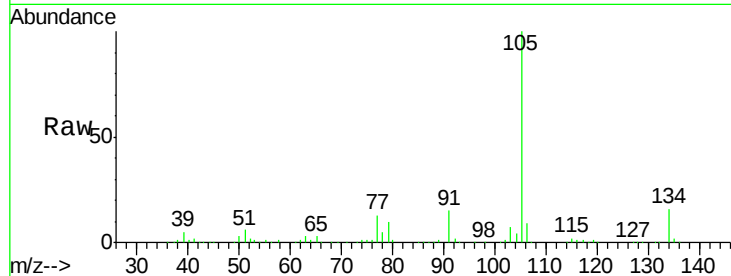
#85
 sec-Butylbenzene
 Concen: 23.063 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.00 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS01

Tot Ion:105 Resp: 345792
 Ion Ratio Lower Upper
 105 100
 134 16.5 9.7 28.9

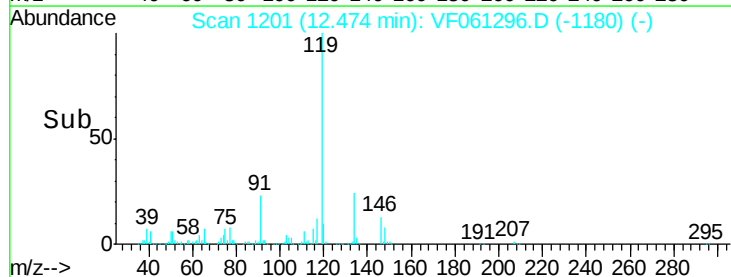
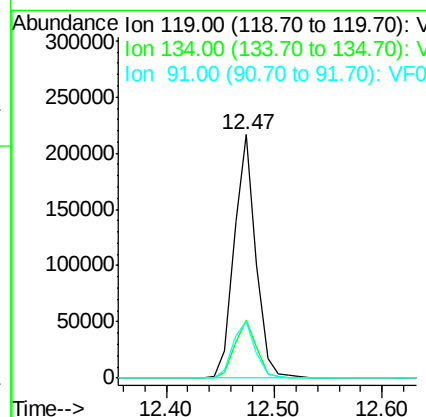
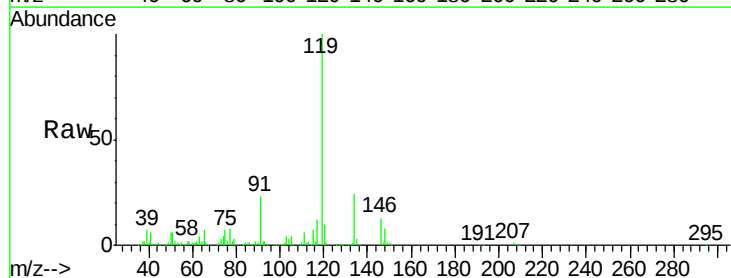
Manual Integrations
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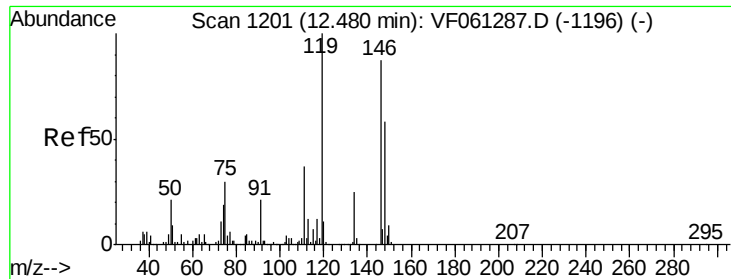
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#86
 p-Isopropyltoluene
 Concen: 24.687 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Tgt Ion:119 Resp: 301059
 Ion Ratio Lower Upper
 119 100
 134 23.7 13.0 39.0
 91 23.1 12.2 36.4





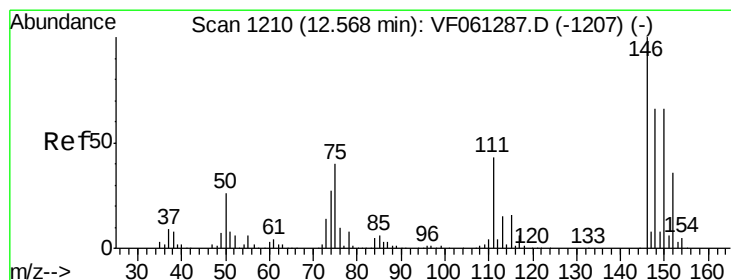
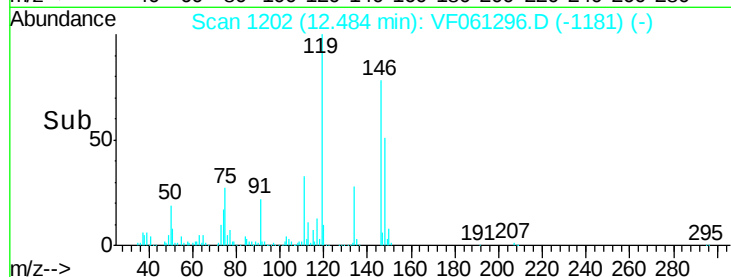
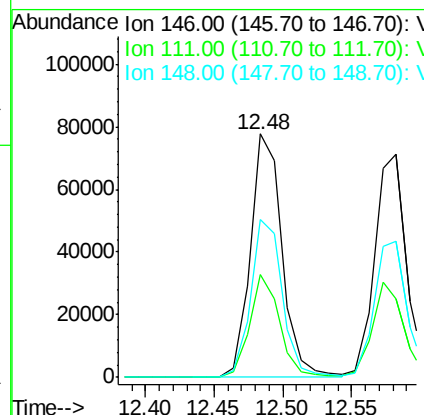
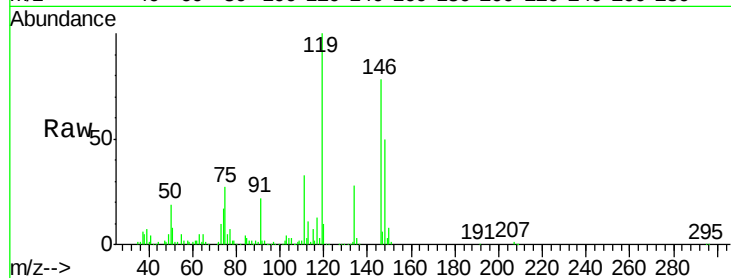
#87
 1,3-Dichlorobenzene
 Concen: 24.265 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.1	63.3
148	65.0	33.1	99.5

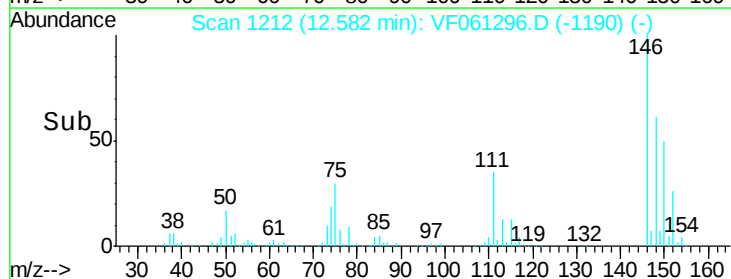
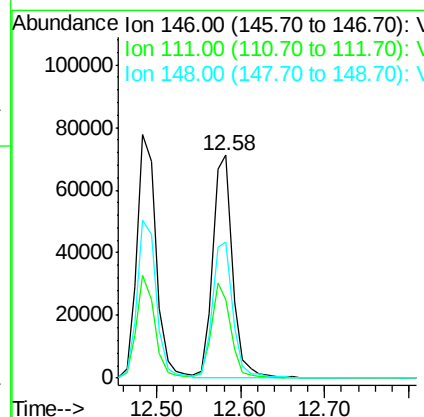
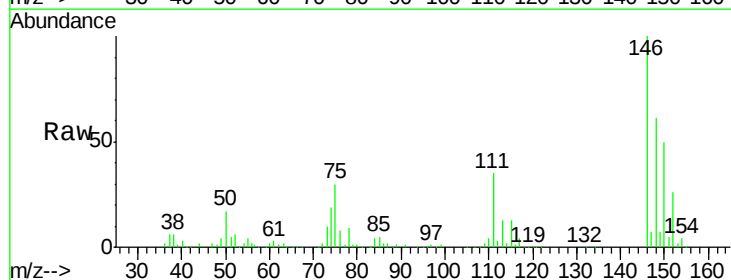
Manual Integrations
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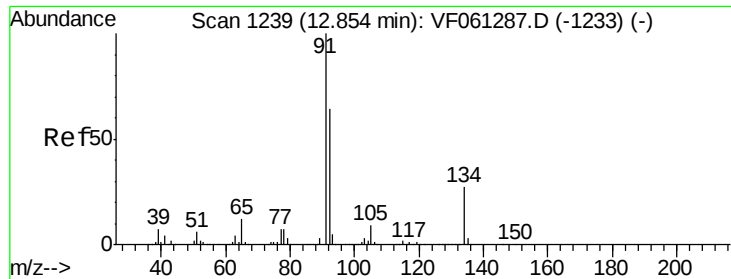
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#88
 1,4-Dichlorobenzene
 Concen: 23.569 ug/l
 RT: 12.58 min Scan# 1212
 Delta R.T. 0.01 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.2	21.4	64.2
148	61.3	33.0	98.9





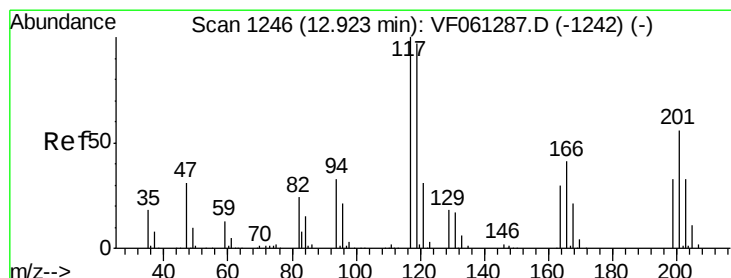
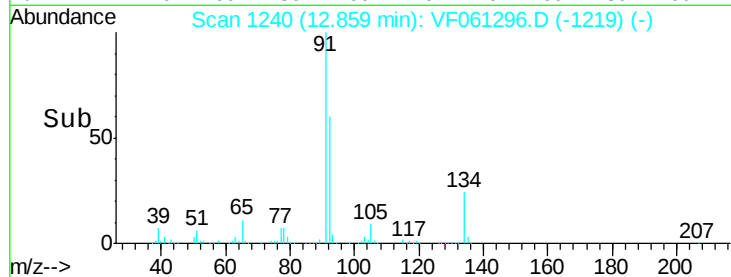
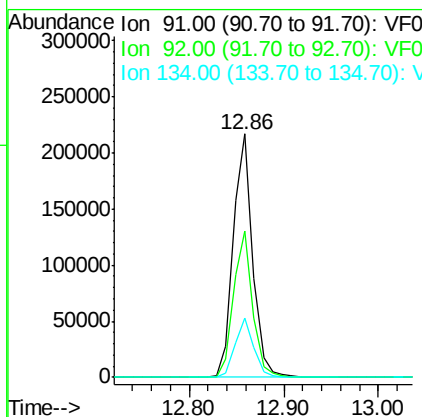
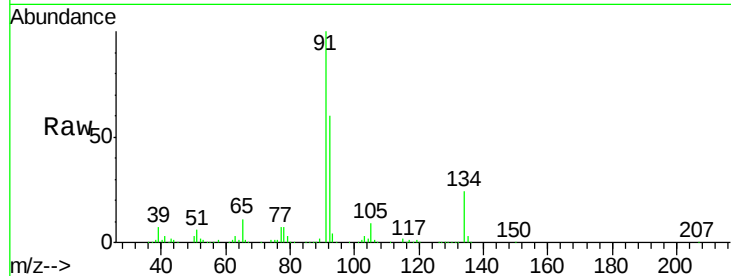
#89
n-Butylbenzene
Concen: 24.683 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	60.1	32.1	96.3	
134	24.4	13.4	40.1	

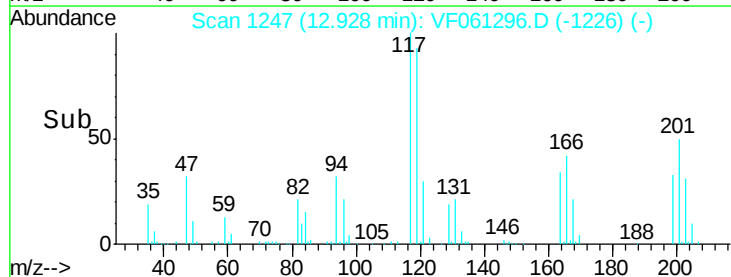
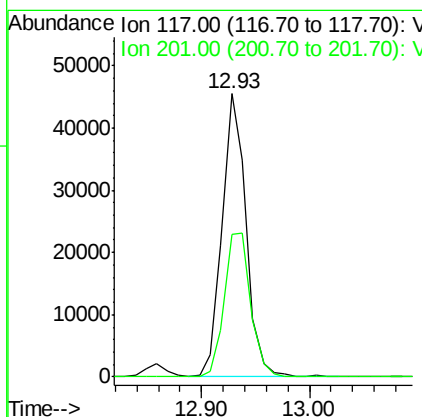
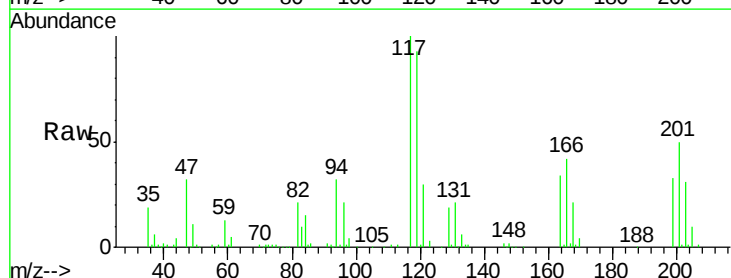
Manual Integrations
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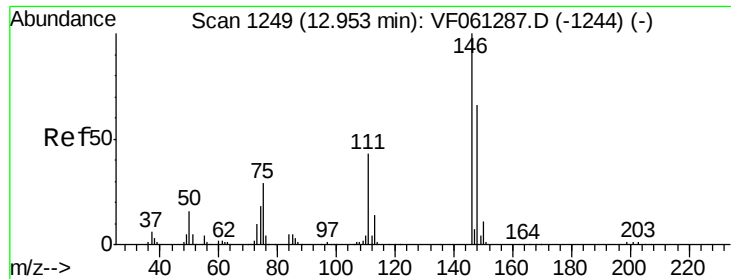
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#90
Hexachloroethane
Concen: 25.147 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	51.7	27.9	83.7	





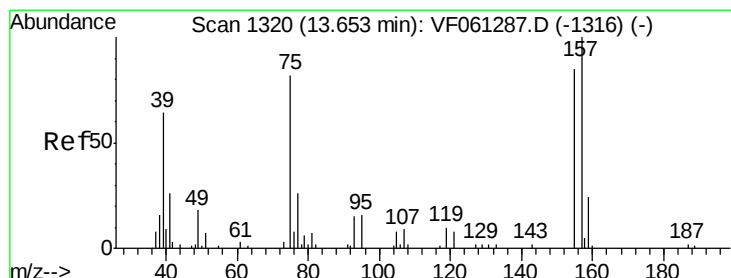
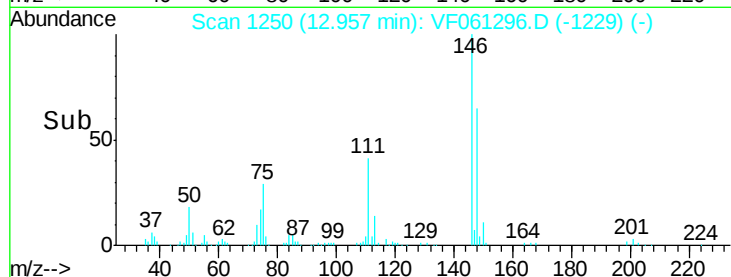
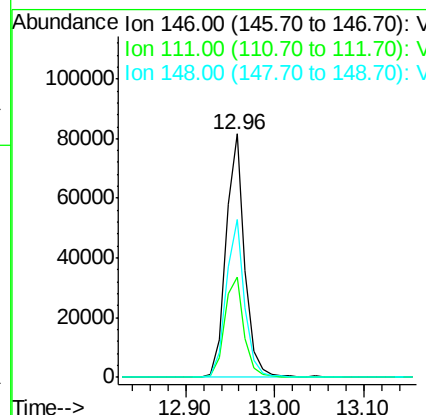
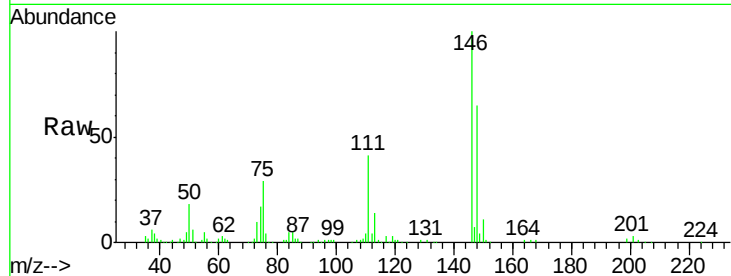
#91
 1,2-Dichlorobenzene
 Concen: 24.521 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	21.4	64.3
148	65.1	33.1	99.2

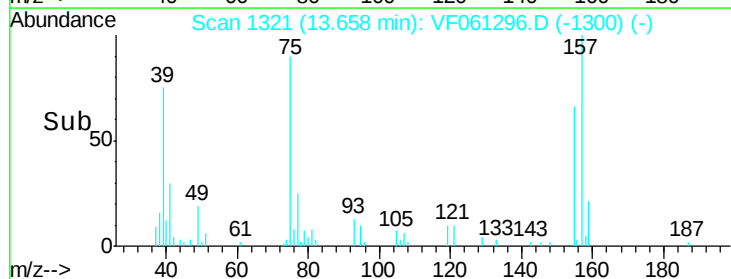
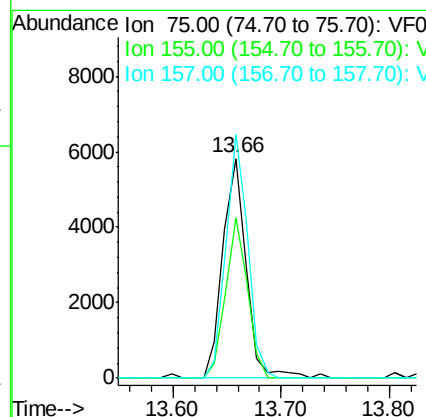
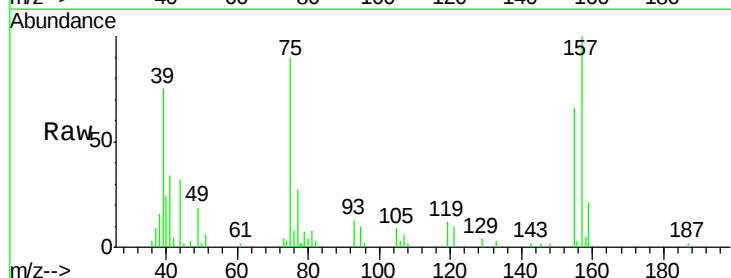
Manual Integrations
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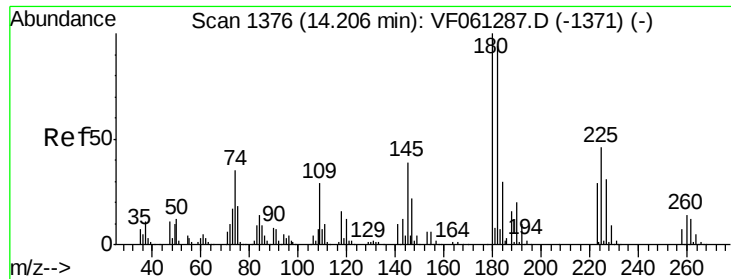
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.724 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. 0.00 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.3	51.3	154.0
157	110.8	60.7	182.0





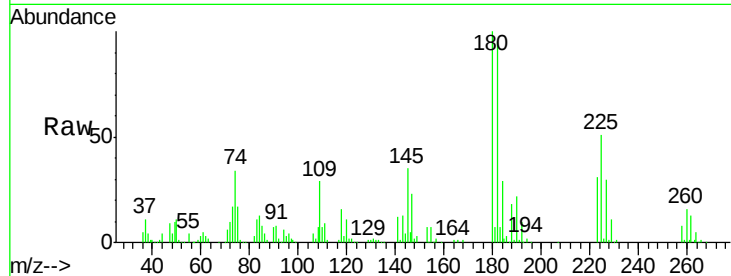
#93
 1,2,4-Trichlorobenzene
 Concen: 25.477 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS01

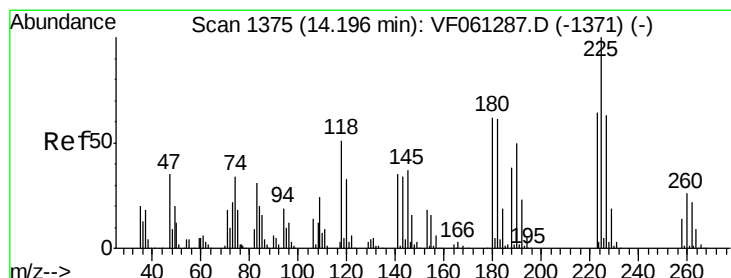
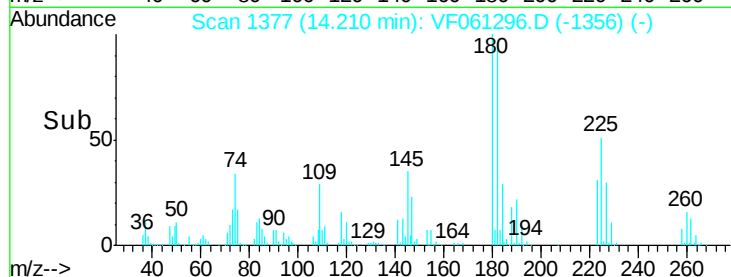
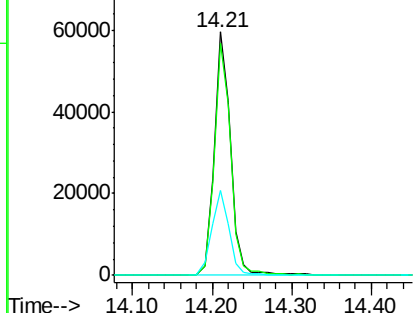
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.2	47.0	141.2	
145	35.1	19.7	59.1	

Manual Integrations
 APPROVED

MMDadoda
 1/10/2019 2:02:40 PM

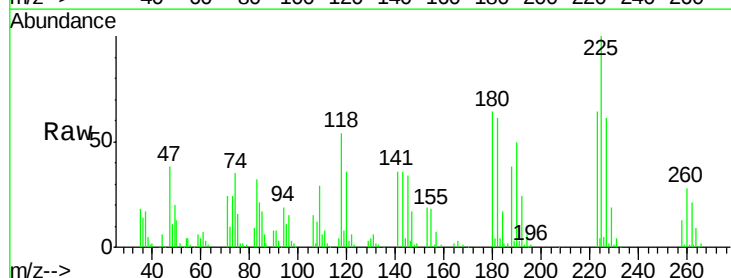


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

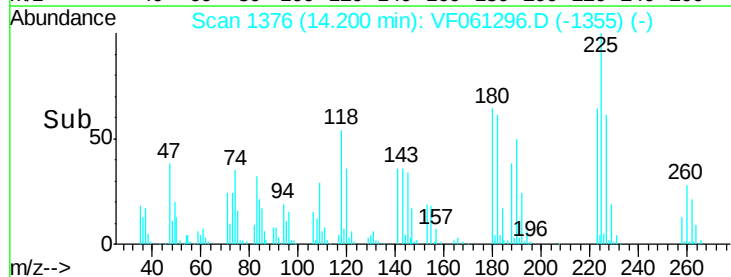
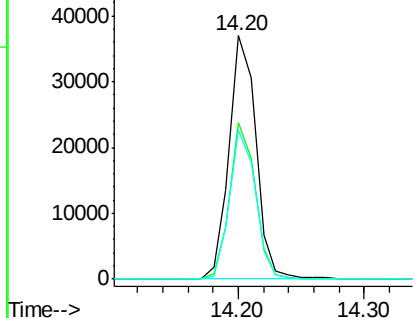


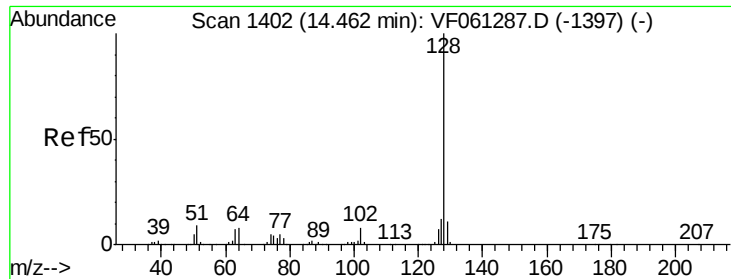
#94
 Hexachlorobutadiene
 Concen: 25.002 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061296.D
 Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.1	31.8	95.4	
227	61.4	31.3	93.9	



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





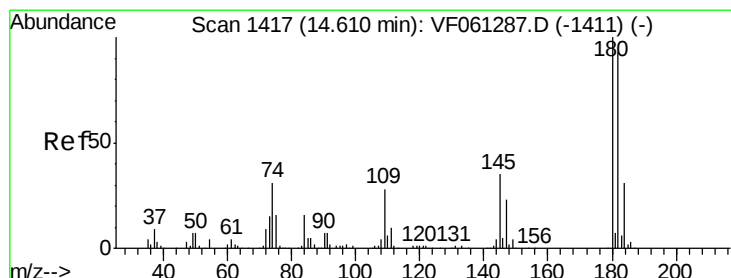
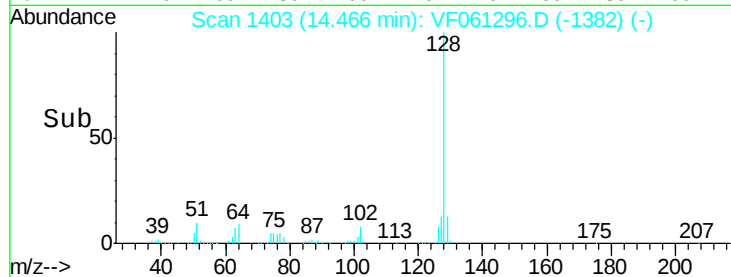
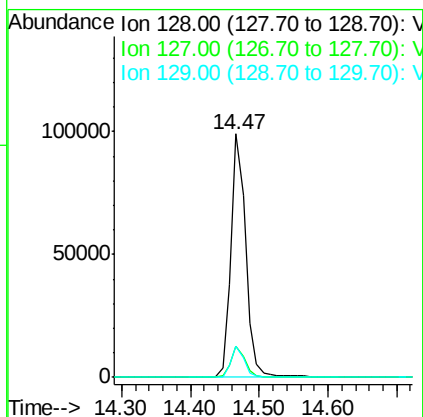
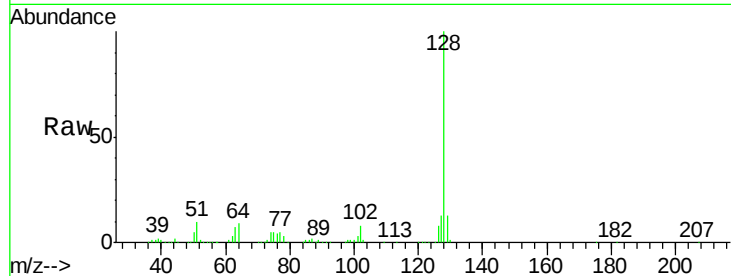
#95
Naphthalene
Concen: 23.190 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0109SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	9.4	14.0
129	12.7	8.8	13.2

Manual Integrations
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1/10/2019 2:02:40 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.815 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. 0.00 min
Lab File: VF061296.D
Acq: 9 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	46.5	139.3
145	36.0	17.5	52.6

