

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062178.D
 Acq On : 16 Apr 2019 16:17
 Operator : FY/SY
 Sample : VF0416SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 11:49:54 AM

Quant Time: Apr 17 08:20:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	400465	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	596114	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	457573	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	236910	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	182309	50.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.12%	
35) Dibromofluoromethane	4.32	113	243909	51.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.74%	
50) Toluene-d8	7.72	98	613857	44.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.34%	
62) 4-Bromofluorobenzene	11.50	95	237379	43.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	133049	22.645	ug/l	97
3) Chloromethane	1.14	50	140504	22.220	ug/l	98
4) Vinyl Chloride	1.19	62	126314	22.832	ug/l	95
5) Bromomethane	1.37	94	62185	17.479	ug/l	97
6) Chloroethane	1.45	64	45197	17.255	ug/l	99
7) Trichlorofluoromethane	1.55	101	141472	21.381	ug/l	99
8) Diethyl Ether	1.71	74	29933	22.410	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.91	101	100405	23.233	ug/l	98
10) Methyl Iodide	1.98	142	178354	22.170	ug/l	99
11) Tert butyl alcohol	2.70	59	24765	123.893	ug/l #	86
12) 1,1-Dichloroethene	1.87	96	95511	21.731	ug/l	91
13) Acrolein	2.11	56	20168	128.085	ug/l	93
14) Allyl chloride	2.21	41	162267	24.520	ug/l	96
15) Acrylonitrile	3.09	53	91708	123.473	ug/l	98
16) Acetone	2.34	43	91571	112.622	ug/l	92
17) Carbon Disulfide	1.91	76	272638	21.898	ug/l	100
18) Methyl Acetate	2.46	43	39395	19.006	ug/l	99
19) Methyl tert-butyl Ether	2.55	73	173998	23.801	ug/l	99
20) Methylene Chloride	2.29	84	131505m	31.775	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	91730	21.814	ug/l	92
22) Diisopropyl ether	2.95	45	283221	23.023	ug/l	97
23) Vinyl Acetate	3.35	43	616256	100.429	ug/l	99
24) 1,1-Dichloroethane	3.01	63	153514	22.410	ug/l	98
25) 2-Butanone	4.52	43	167907	96.134	ug/l	99
26) 2,2-Dichloropropane	3.78	77	89642	24.879	ug/l	98
27) cis-1,2-Dichloroethene	3.66	96	120571	21.600	ug/l	95
28) Bromochloromethane	3.91	49	69597	21.217	ug/l	95
29) Tetrahydrofuran	4.28	42	78041	100.461	ug/l	100
30) Chloroform	4.06	83	182661	21.448	ug/l	95
31) Cyclohexane	3.88	56	192275	21.725	ug/l	96
32) 1,1,1-Trichloroethane	4.30	97	139738	24.062	ug/l	98
36) 1,1-Dichloropropene	4.48	75	133222	20.114	ug/l	99
37) Ethyl Acetate	4.31	43	62771	20.568	ug/l #	81
38) Carbon Tetrachloride	4.19	117	131828	23.125	ug/l	91

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Manual Integrations
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MMDadoda
 4/17/2019 11:49:54 AM

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 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	181887	21.914	ug/l	98
40) Benzene	4.83	78	364998	20.863	ug/l	97
41) Methacrylonitrile	4.94	41	35524	19.373	ug/l	94
42) 1,2-Dichloroethane	5.13	62	86118	19.448	ug/l	98
43) Isopropyl Acetate	7.12	43	68327	19.378	ug/l	97
44) Trichloroethene	5.69	130	92955	19.851	ug/l	93
45) 1,2-Dichloropropane	6.42	63	82869	19.308	ug/l	95
46) Dibromomethane	6.27	93	50331	19.447	ug/l	96
47) Bromodichloromethane	6.56	83	113812	19.411	ug/l	98
48) Methyl methacrylate	6.88	41	42751	18.518	ug/l	94
49) 1,4-Dioxane	6.88	88	9969	554.134	ug/l	94
51) 4-Methyl-2-Pentanone	8.41	43	277634	102.180	ug/l	97
52) Toluene	7.79	92	193051	18.784	ug/l	95
53) t-1,3-Dichloropropene	8.43	75	89241	17.571	ug/l	98
54) cis-1,3-Dichloropropene	7.47	75	123476	19.120	ug/l	96
55) 1,1,2-Trichloroethane	8.63	97	54827	18.626	ug/l	96
56) Ethyl methacrylate	8.76	69	69998	19.998	ug/l	97
57) 1,3-Dichloropropane	9.00	76	88376	18.262	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.45	63	72102	79.949	ug/l	99
59) 2-Hexanone	9.63	43	177304	102.676	ug/l	96
60) Dibromochloromethane	8.86	129	77031	19.020	ug/l	95
61) 1,2-Dibromoethane	9.14	107	61257	19.451	ug/l	96
64) Tetrachloroethene	8.31	164	75317	20.153	ug/l	98
65) Chlorobenzene	9.93	112	191183	20.085	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.06	131	89221	22.704	ug/l	95
67) Ethyl Benzene	10.03	91	359604	20.380	ug/l	97
68) m/p-Xylenes	10.26	106	265442	40.867	ug/l	88
69) o-Xylene	10.82	106	146910	20.891	ug/l	91
70) Styrene	10.89	104	202786	19.828	ug/l	97
71) Bromoform	10.88	173	43210	20.997	ug/l #	95
73) Isopropylbenzene	11.22	105	449344	22.016	ug/l	97
74) N-amyl acetate	11.45	43	118806	23.163	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.77	83	75360	20.727	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	48678	19.742	ug/l	100
77) Bromobenzene	11.58	156	85017	20.029	ug/l	92
78) n-propylbenzene	11.68	91	483470	20.840	ug/l	96
79) 2-Chlorotoluene	11.80	91	280337	20.500	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	368129	21.626	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.95	75	26584m	21.557	ug/l	
82) 4-Chlorotoluene	11.97	91	267123	19.933	ug/l	99
83) tert-Butylbenzene	12.20	119	370836	21.939	ug/l	99
84) 1,2,4-Trimethylbenzene	12.27	105	352123	21.315	ug/l	95
85) sec-Butylbenzene	12.37	105	489151	22.008	ug/l	98
86) p-Isopropyltoluene	12.52	119	419292	22.144	ug/l	95
87) 1,3-Dichlorobenzene	12.54	146	163526	21.057	ug/l	98
88) 1,4-Dichlorobenzene	12.63	146	150614	19.892	ug/l	96
89) n-Butylbenzene	12.90	91	417253	20.811	ug/l	94
90) Hexachloroethane	12.97	117	101399	21.862	ug/l	80
91) 1,2-Dichlorobenzene	13.00	146	156245	20.965	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.69	75	13889	21.210	ug/l	86

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Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBSD01

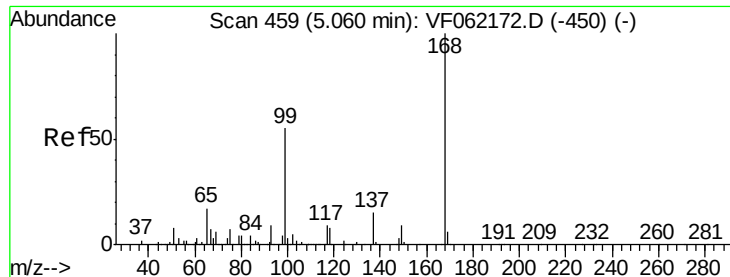
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Wed Apr 17 07:56:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	131226	23.445	ug/l	97
94) Hexachlorobutadiene	14.23	225	84887	23.271	ug/l	99
95) Naphthalene	14.50	128	227711	23.286	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	121115	23.225	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:168 Resp: 400465

Ion Ratio Lower Upper

168 100

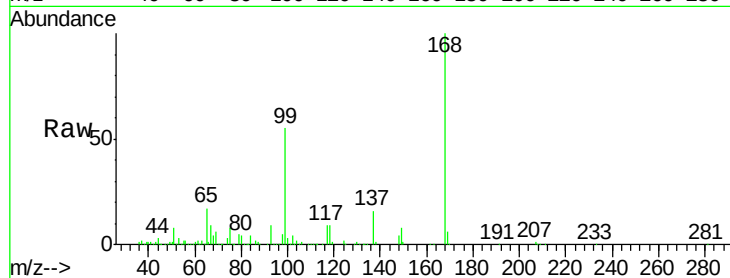
99 54.9 44.2 66.4

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

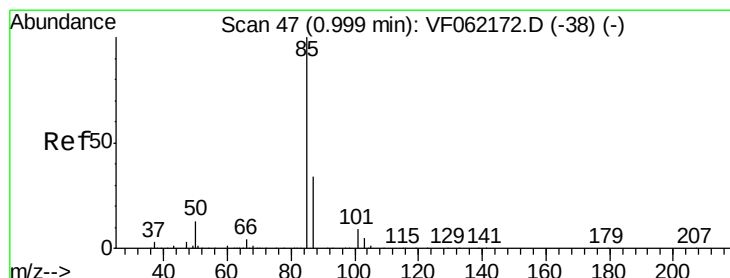
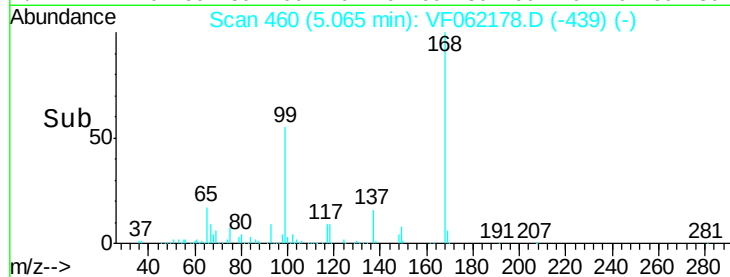
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.645 ug/l

RT: 1.00 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062178.D

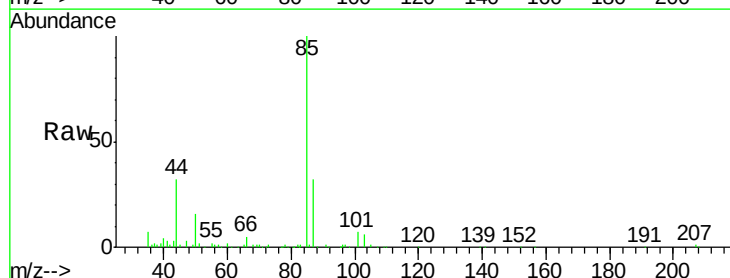
Acq: 16 Apr 2019 16:17

Tgt Ion: 85 Resp: 133049

Ion Ratio Lower Upper

85 100

87 32.1 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

40000

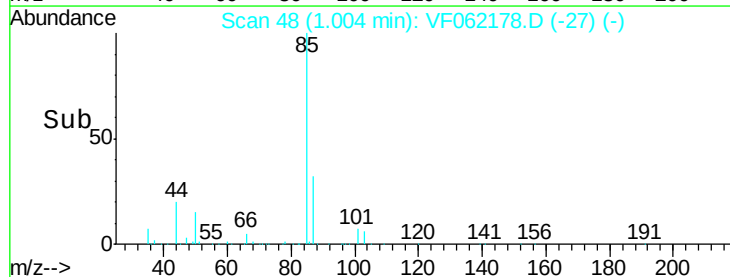
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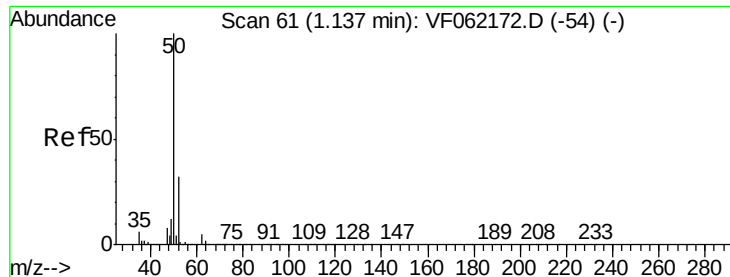
20000

10000

0

Time-->





#3

Chloromethane

Concen: 22.220 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 50 Resp: 140504

Ion Ratio Lower Upper

50 100

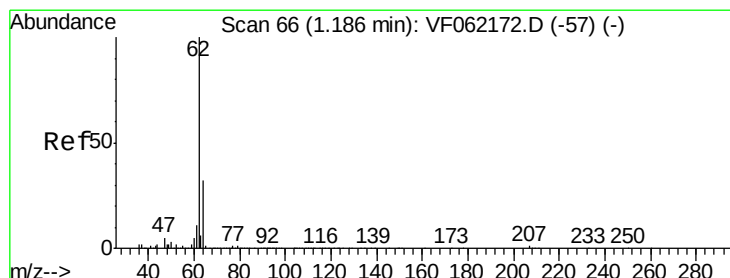
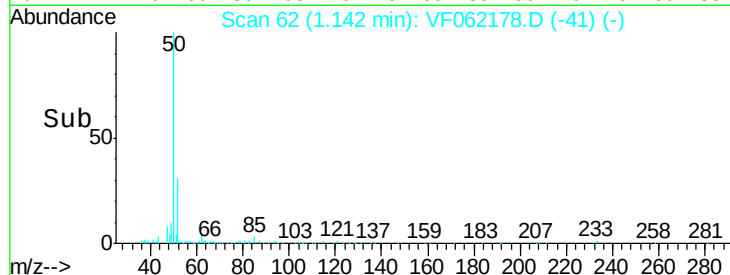
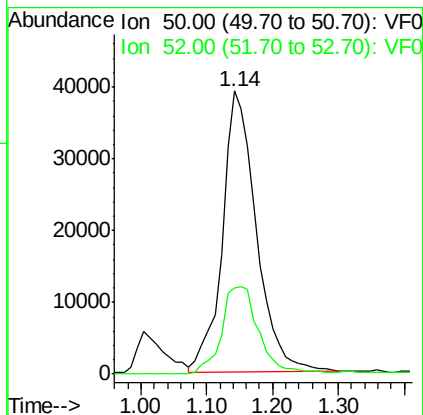
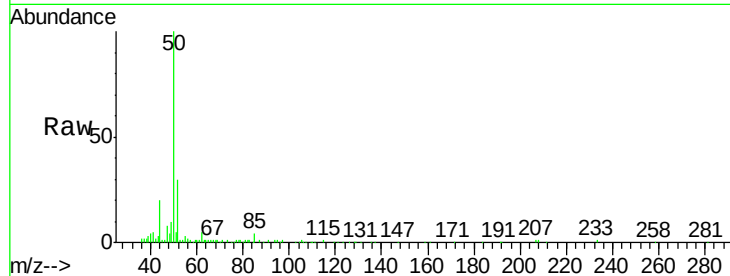
52 30.4 25.4 38.2

Manual Integrations

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4/17/2019 11:49:54 AM



#4

Vinyl Chloride

Concen: 22.832 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062178.D

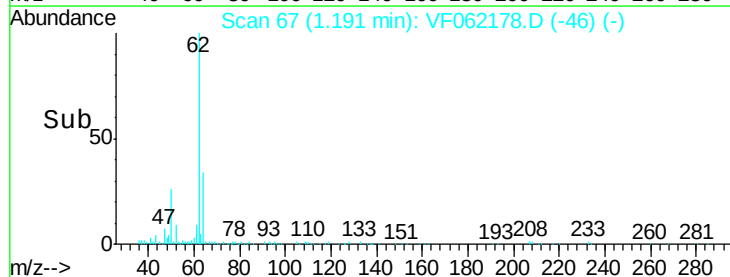
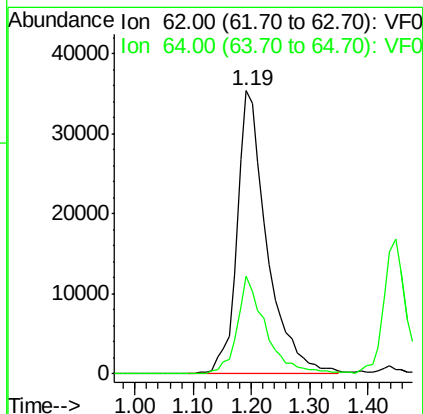
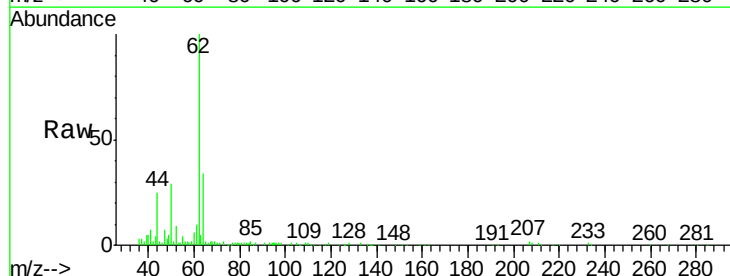
Acq: 16 Apr 2019 16:17

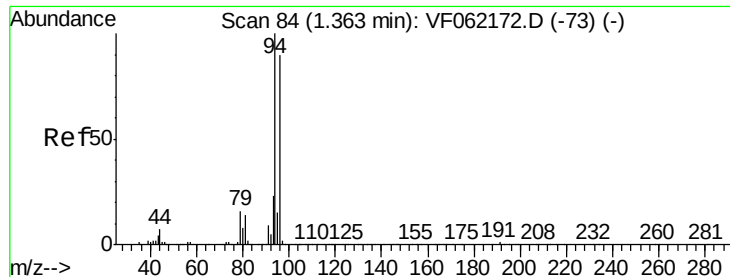
Tgt Ion: 62 Resp: 126314

Ion Ratio Lower Upper

62 100

64 34.4 25.4 38.0





#5

Bromomethane

Concen: 17.479 ug/l

RT: 1.37 min Scan# 85

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 94 Resp: 62185

Ion Ratio Lower Upper

94 100

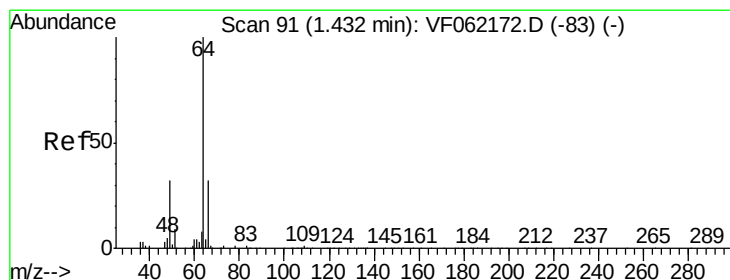
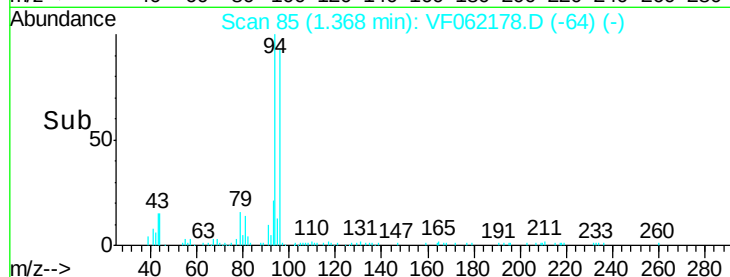
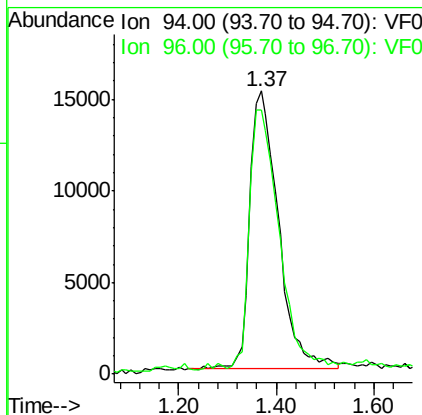
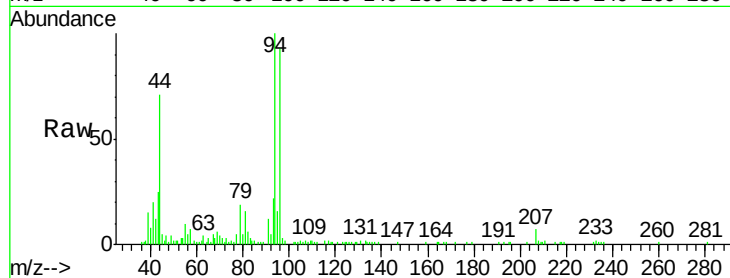
96 93.2 72.3 108.5

Manual Integrations

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4/17/2019 11:49:54 AM



#6

Chloroethane

Concen: 17.255 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062178.D

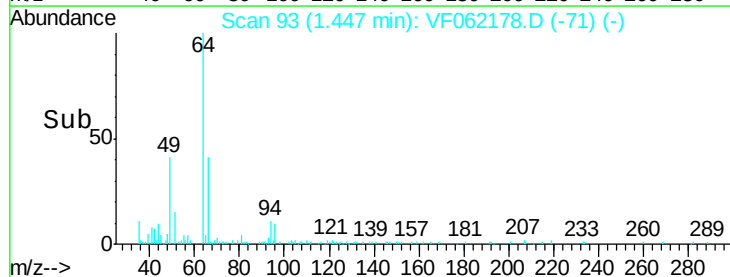
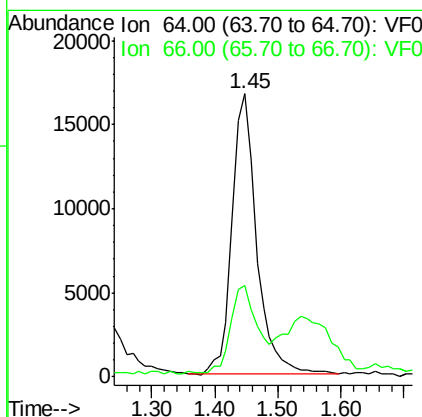
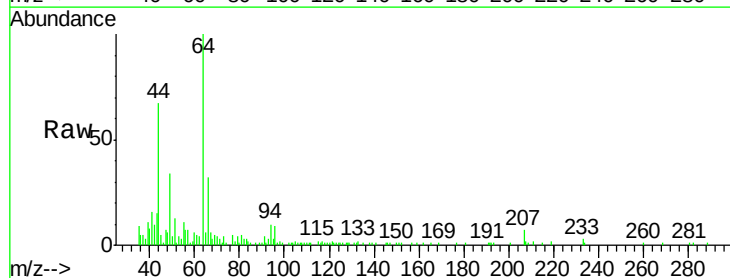
Acq: 16 Apr 2019 16:17

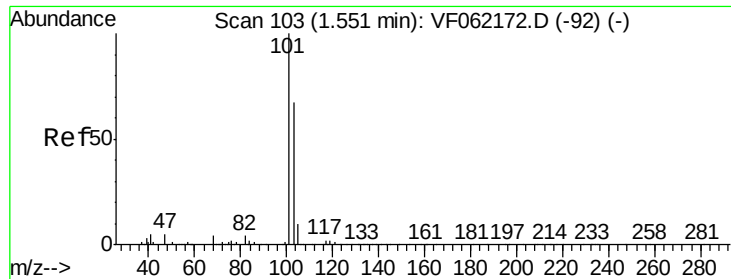
Tgt Ion: 64 Resp: 45197

Ion Ratio Lower Upper

64 100

66 32.4 25.7 38.5





#7

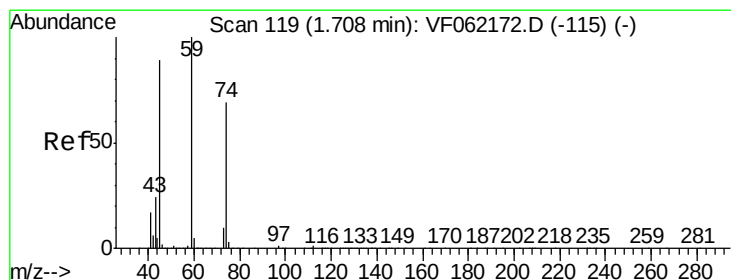
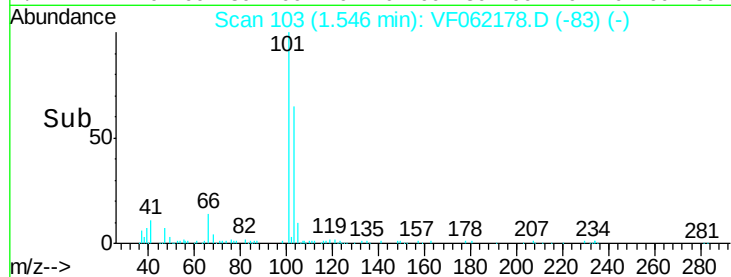
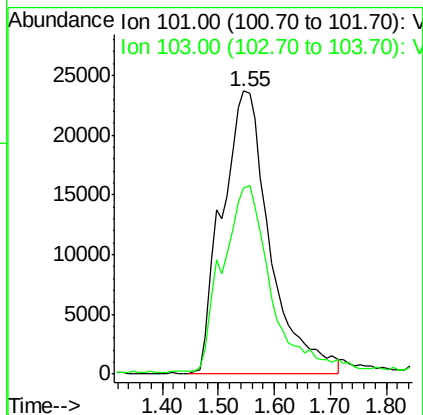
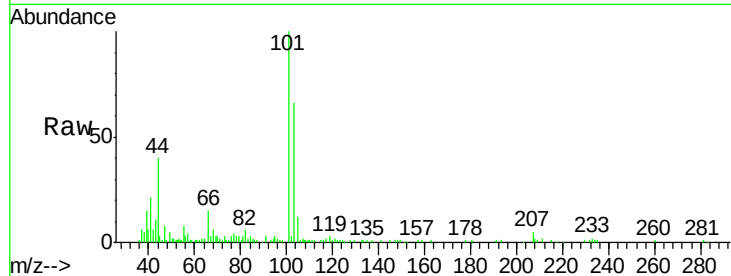
Trichlorofluoromethane
Concen: 21.381 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ion	Ratio	Lower	Upper
101	101	100		
103	103	66.0	53.7	80.5

Manual Integrations
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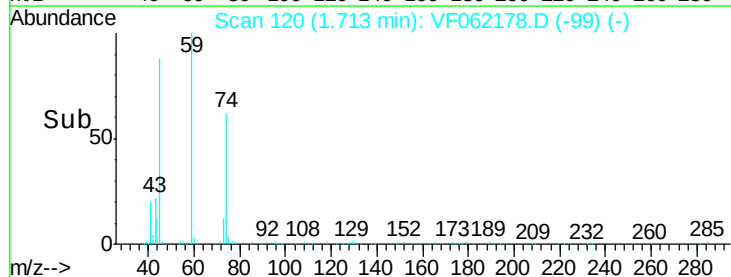
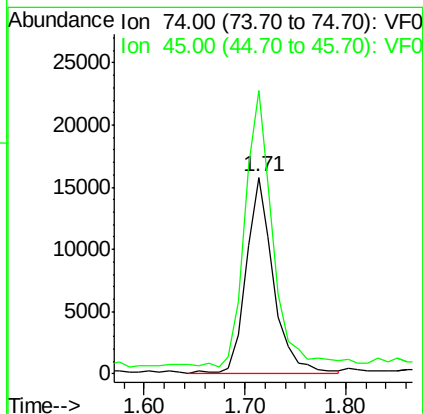
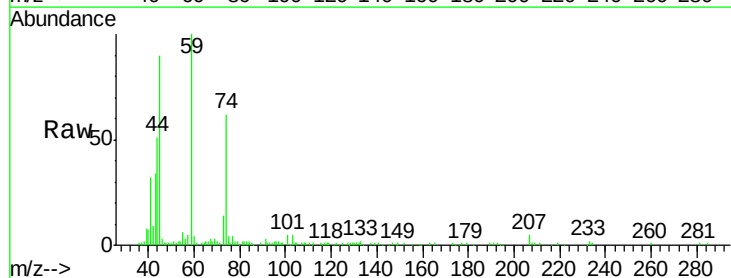
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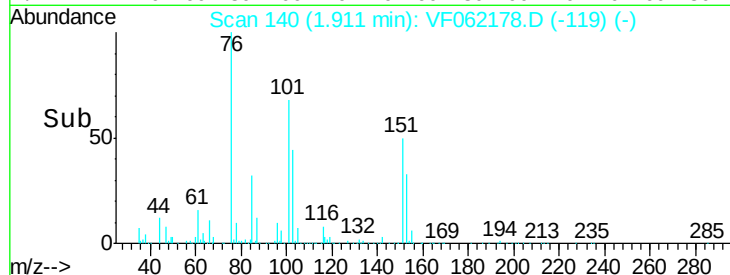
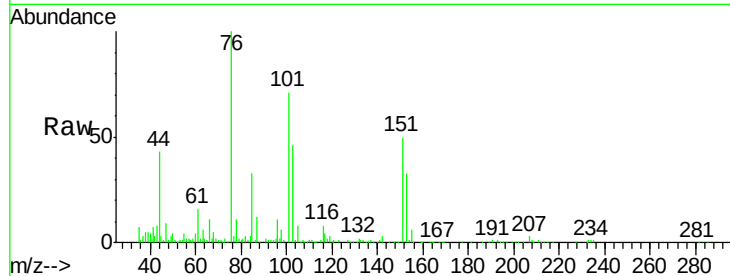
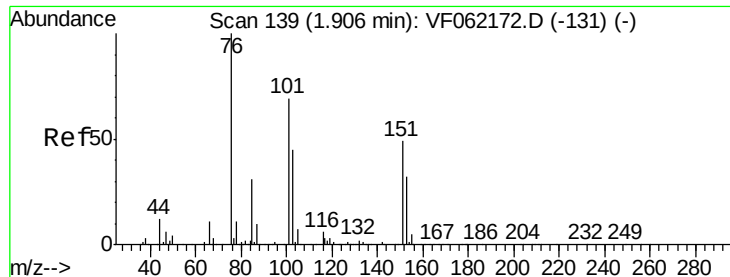


#8

Diethyl Ether
Concen: 22.410 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ion	Ratio	Lower	Upper
74	74	100		
45	45	144.2	64.7	194.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.233 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062178.D

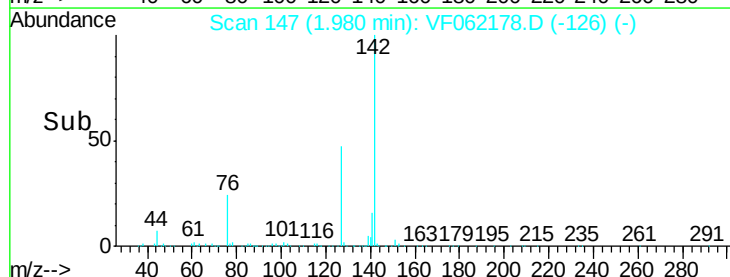
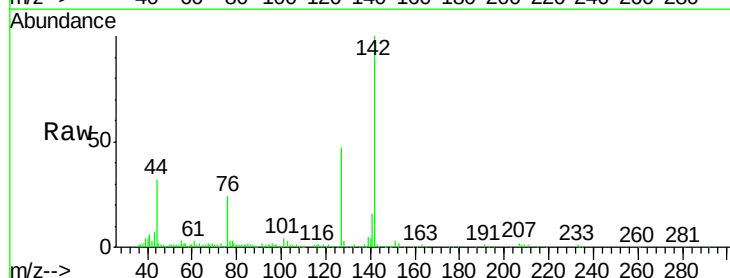
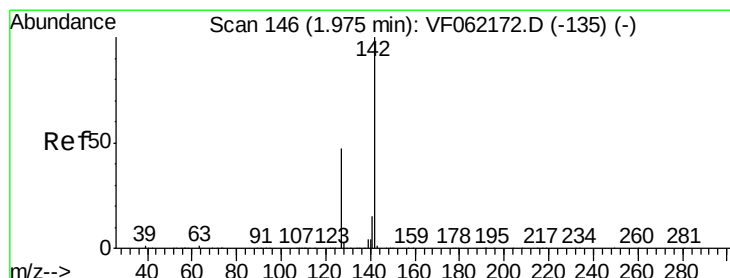
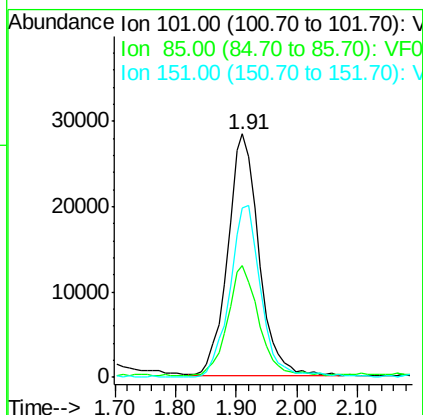
Acq: 16 Apr 2019 16:17

Tot Ion:	101	Resp:	100405
Ion Ratio	Lower	Upper	
101	100		
85	45.8	35.2	52.8
151	69.8	56.6	85.0

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

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4/17/2019 11:49:54 AM



#10

Methyl Iodide

Concen: 22.170 ug/l

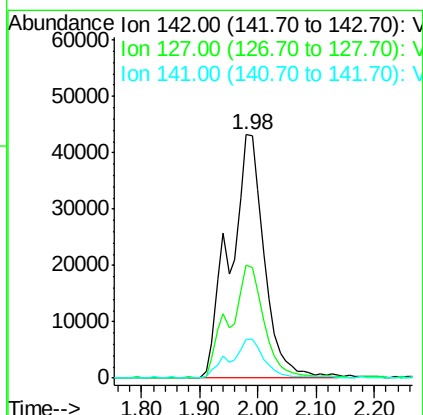
RT: 1.98 min Scan# 147

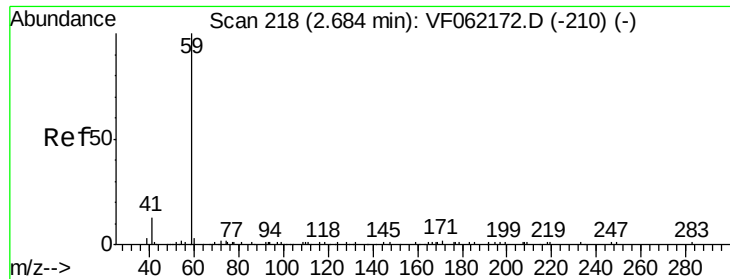
Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	142	Resp:	178354
Ion Ratio	Lower	Upper	
142	100		
127	46.5	37.8	56.6
141	16.0	12.1	18.1





#11

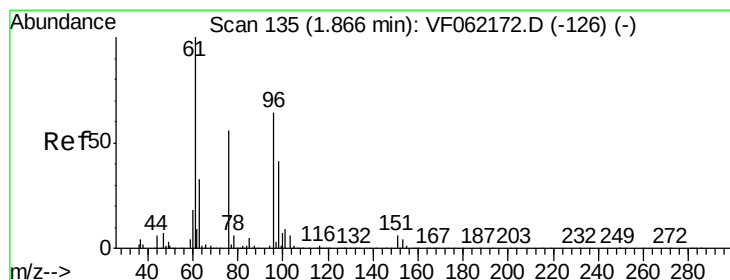
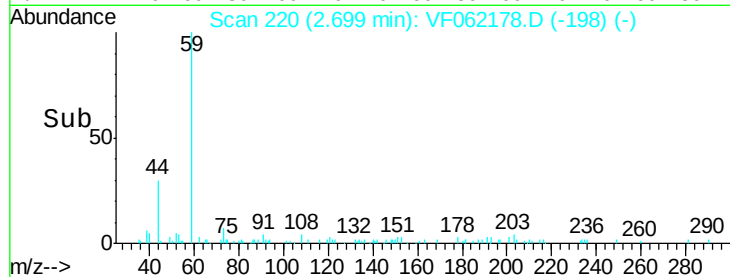
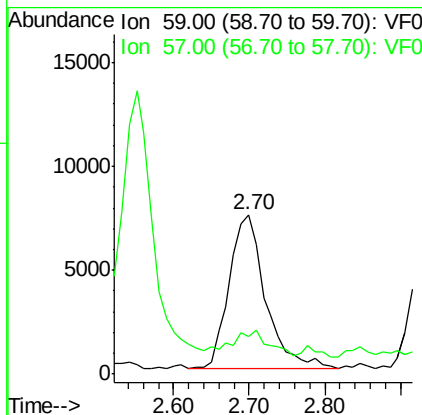
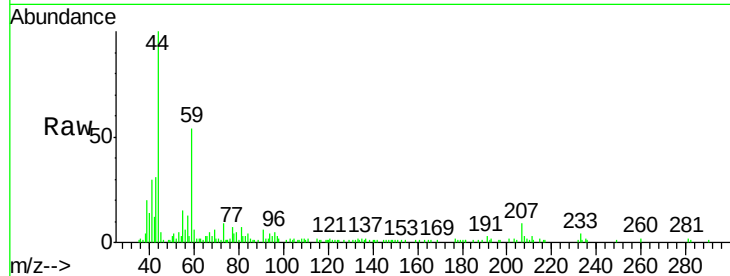
Tert butyl alcohol
 Concen: 123.893 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. 0.01 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBSD01

Tot Ion	59	Resp	24765
Ion Ratio	100	Lower	Upper
57	23.8	14.2	21.4#

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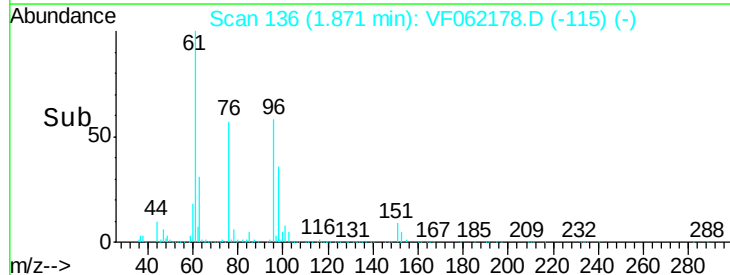
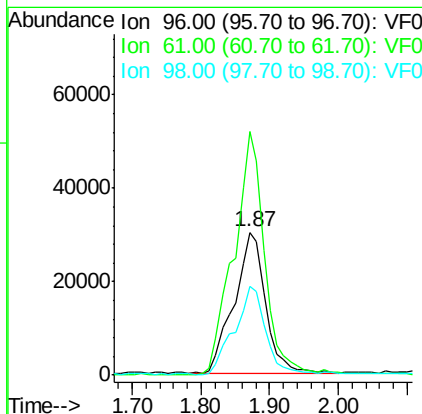
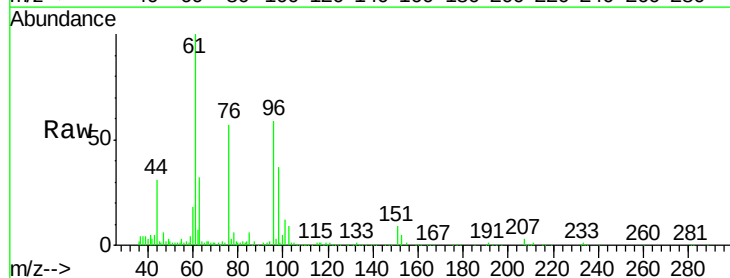
MMDadoda
 4/17/2019 11:49:54 AM

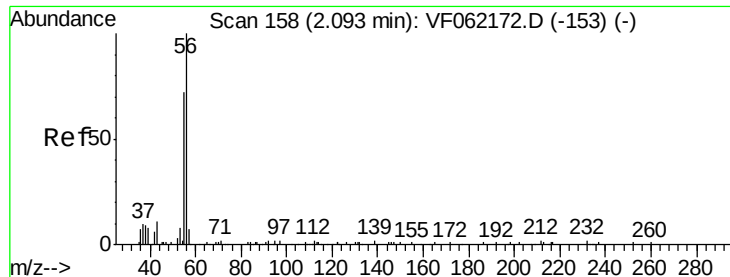


#12

1,1-Dichloroethene
 Concen: 21.731 ug/l
 RT: 1.87 min Scan# 136
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	96	Resp	95511
Ion Ratio	100	Lower	Upper
61	170.4	124.6	187.0
98	62.5	51.5	77.3





#13

Acrolein

Concen: 128.085 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 56 Resp: 20168

Ion Ratio Lower Upper

56 100

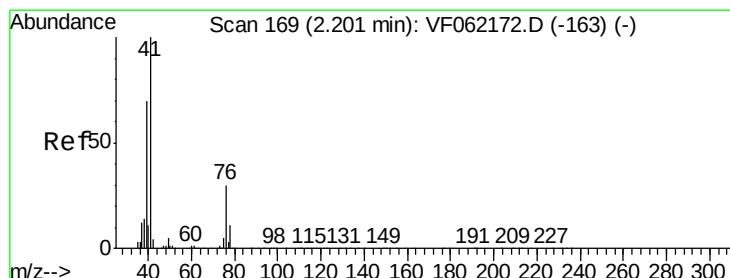
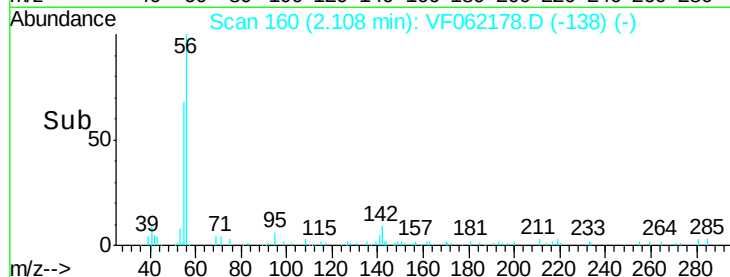
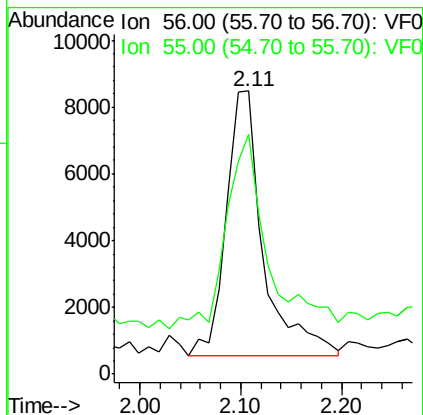
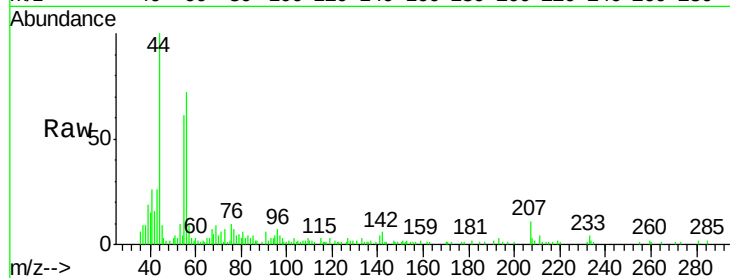
55 84.7 62.9 94.3

Manual Integrations

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#14

Allyl chloride

Concen: 24.520 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

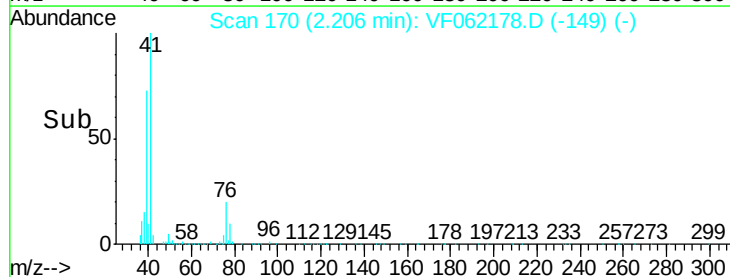
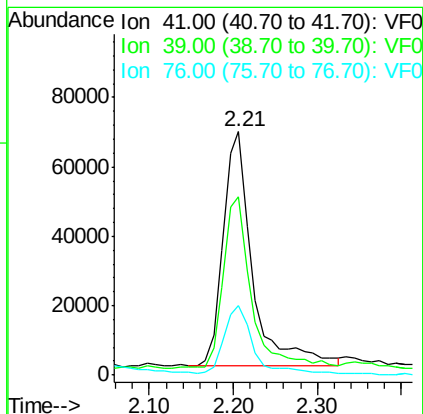
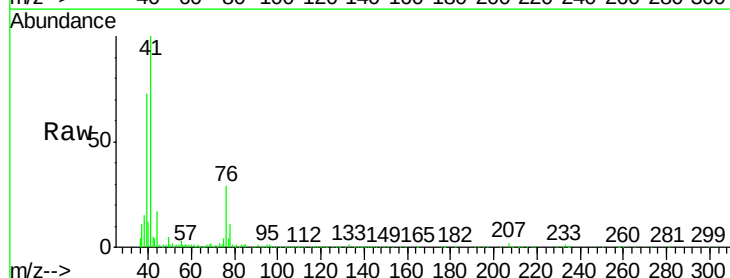
Tgt Ion: 41 Resp: 162267

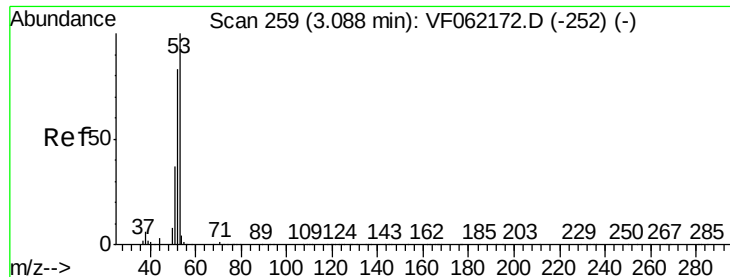
Ion Ratio Lower Upper

41 100

39 73.4 56.1 84.1

76 28.8 24.9 37.3





#15

Acrylonitrile

Concen: 123.473 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

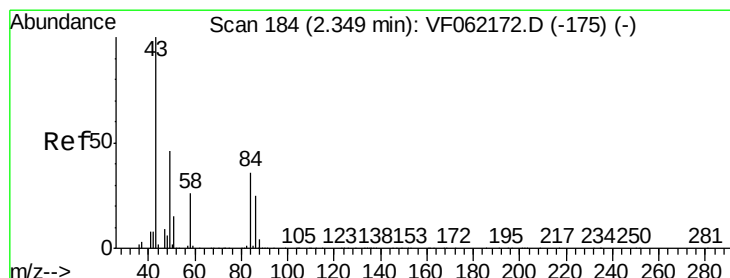
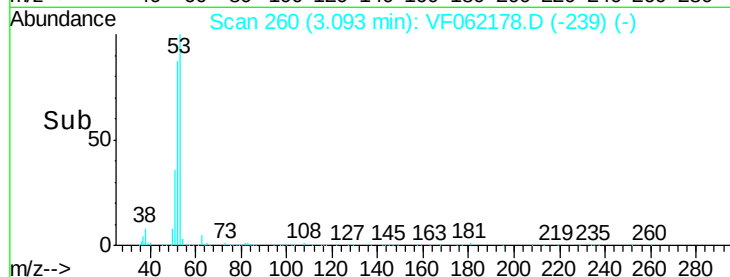
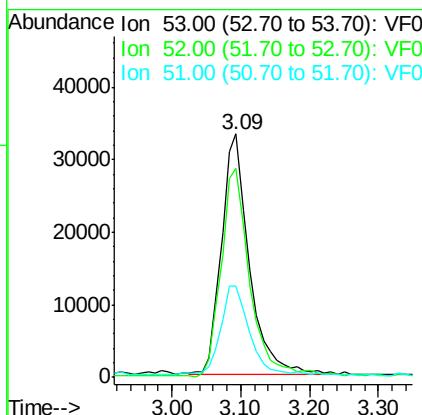
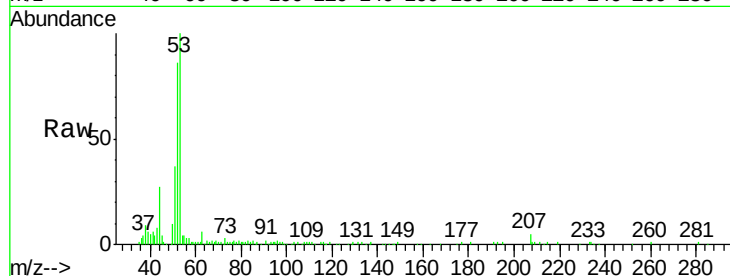
ClientSampleId :

VF0416SBS01

Tot Ion:	53	Resp:	91708
Ion Ratio	Lower	Upper	
53	100		
52	86.0	66.6	99.8
51	37.3	30.1	45.1

Manual Integrations
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#16

Acetone

Concen: 112.622 ug/l

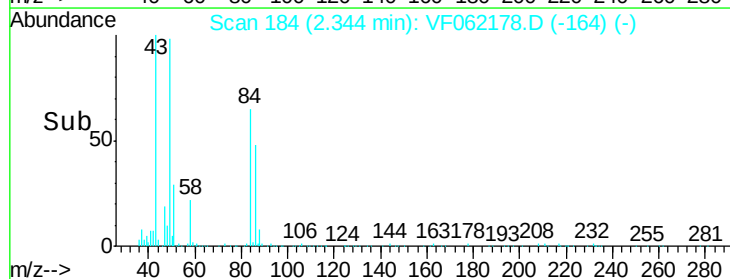
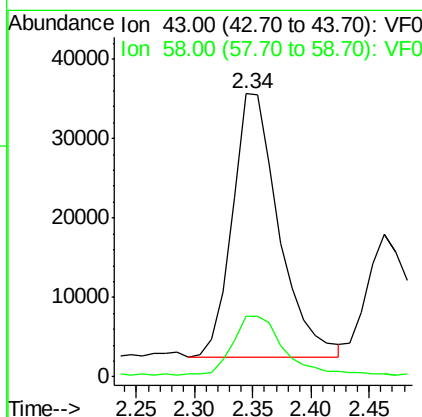
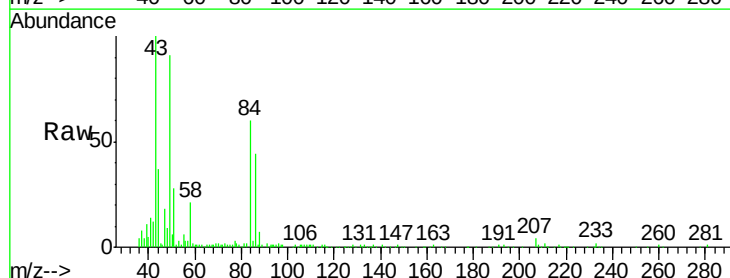
RT: 2.34 min Scan# 184

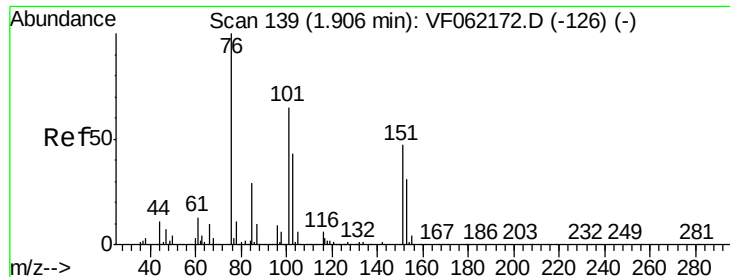
Delta R.T. -0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	43	Resp:	91571
Ion Ratio	Lower	Upper	
43	100		
58	21.4	20.2	30.2





#17

Carbon Disulfide

Concen: 21.898 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 76 Resp: 272638

Ion Ratio Lower Upper

76 100

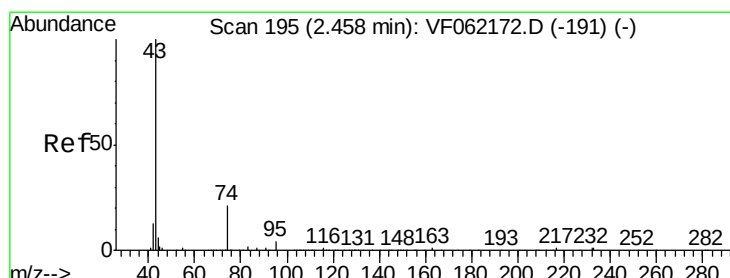
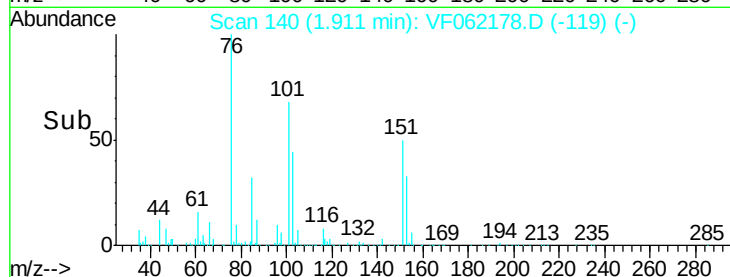
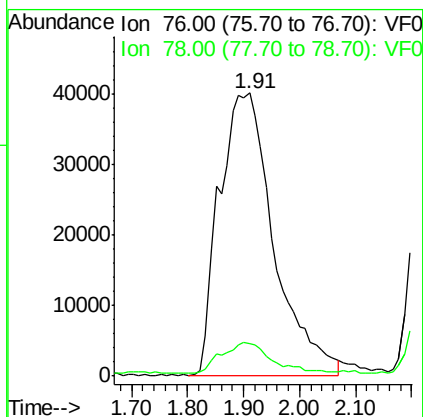
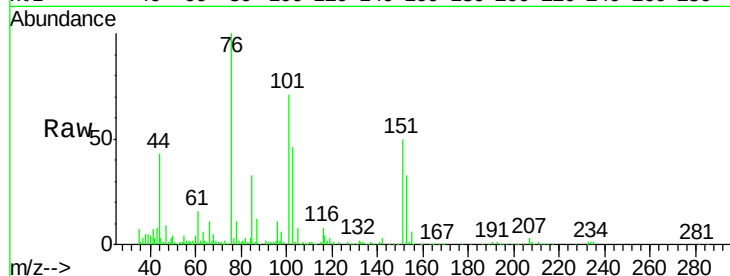
78 11.4 9.1 13.7

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#18

Methyl Acetate

Concen: 19.006 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF062178.D

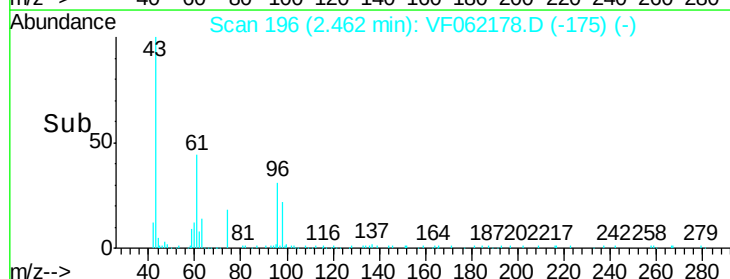
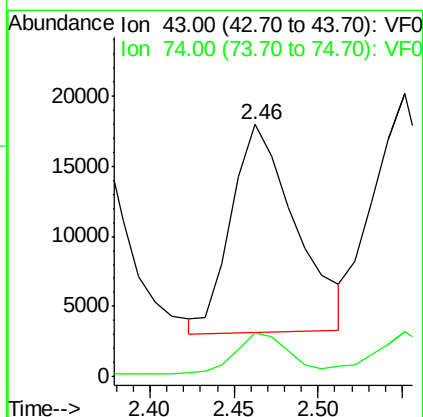
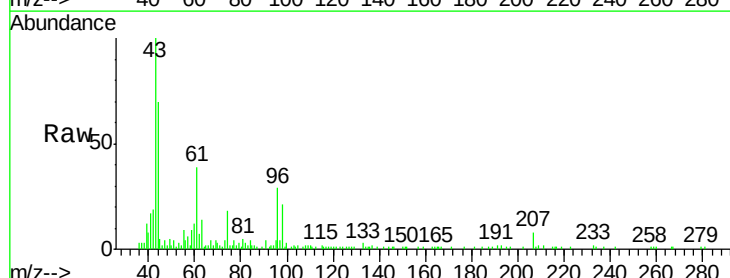
Acq: 16 Apr 2019 16:17

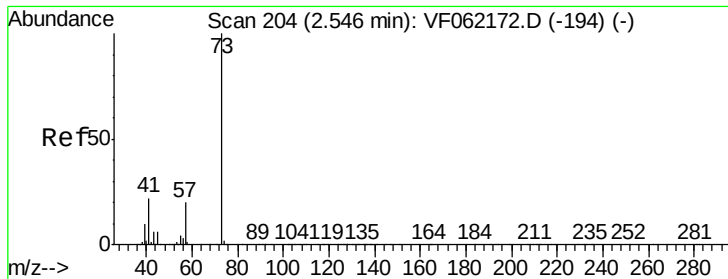
Tgt Ion: 43 Resp: 39395

Ion Ratio Lower Upper

43 100

74 17.5 14.2 21.4





#19

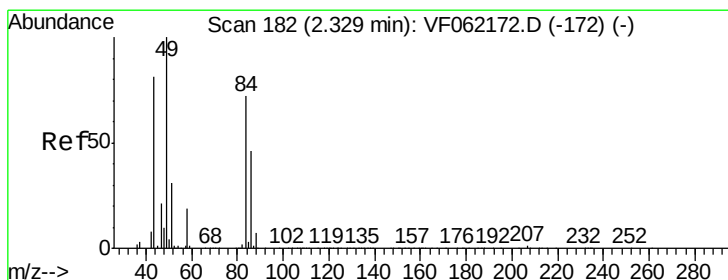
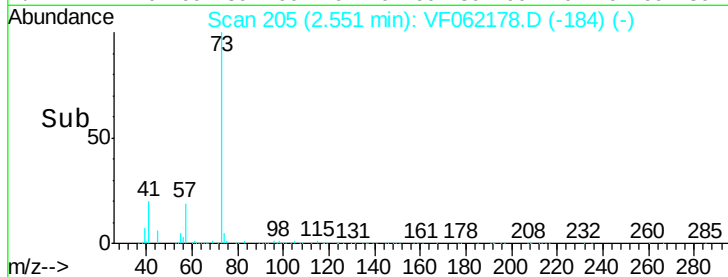
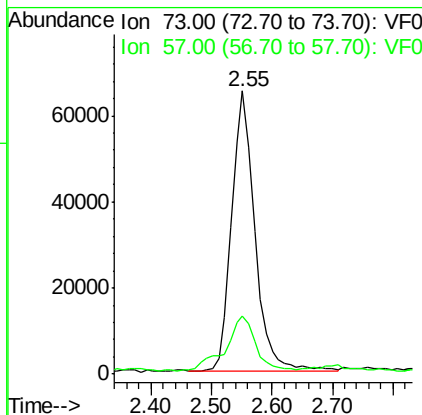
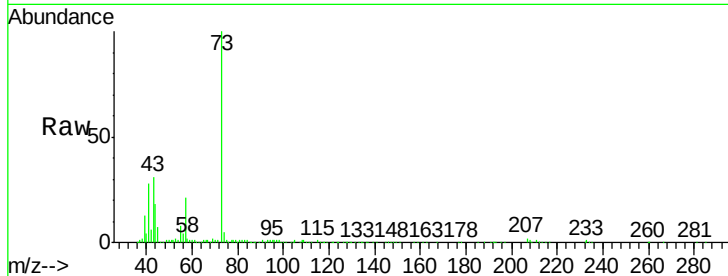
Methyl tert-butyl Ether
 Concen: 23.801 ug/l
 RT: 2.55 min Scan# 205
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.7	16.8	25.2

Manual Integrations
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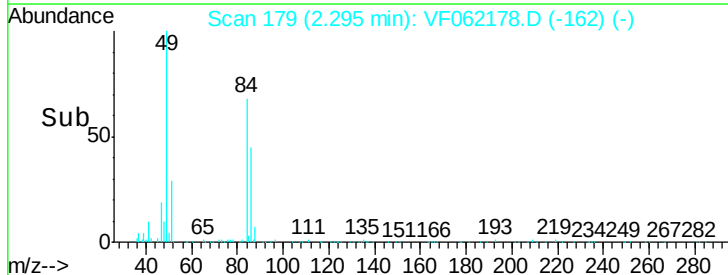
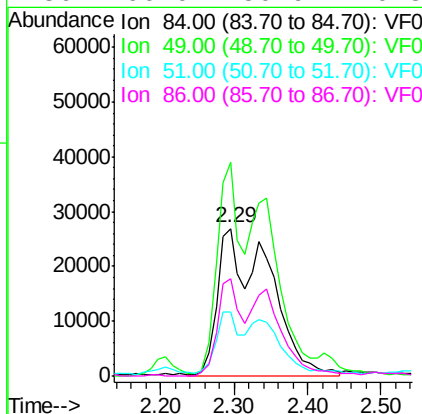
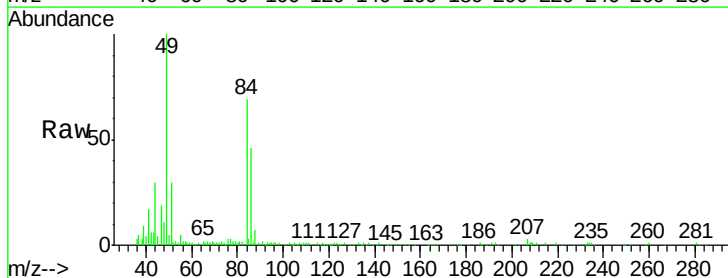
MMDadoda
 4/17/2019 11:49:54 AM

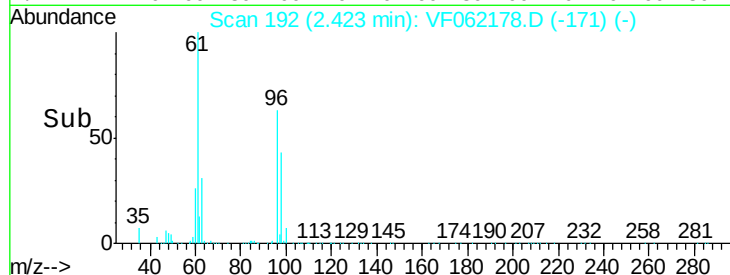
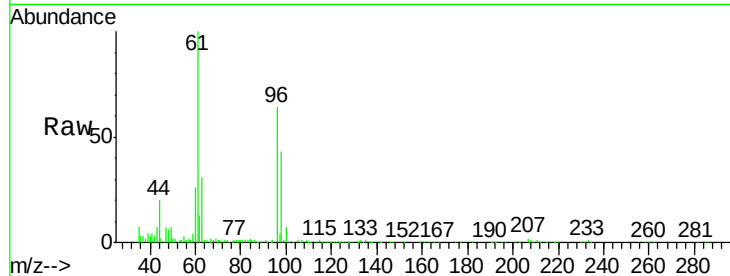
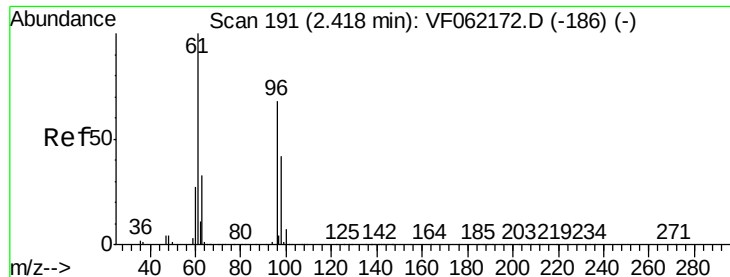


#20

Methylene Chloride
 Concen: 31.775 ug/l m
 RT: 2.29 min Scan# 179
 Delta R.T. -0.03 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.9	111.5	167.3
51	43.4	34.9	52.3
86	66.0	50.9	76.3





#21

trans-1,2-Dichloroethene

Concen: 21.814 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF062178.D

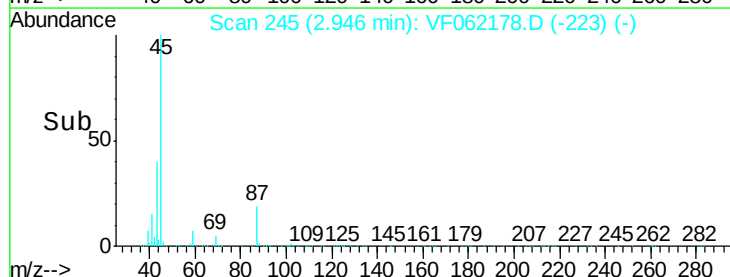
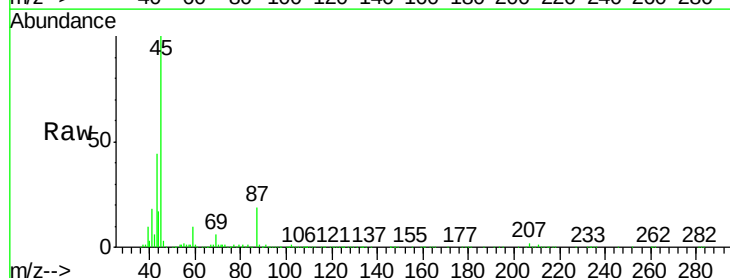
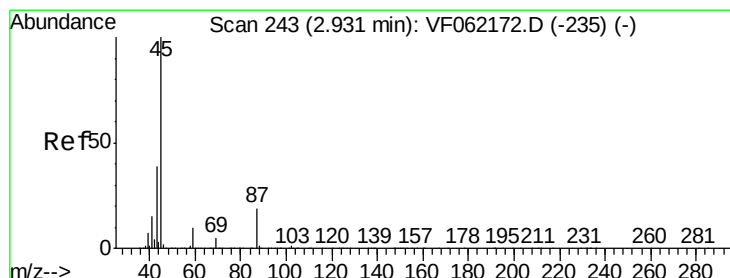
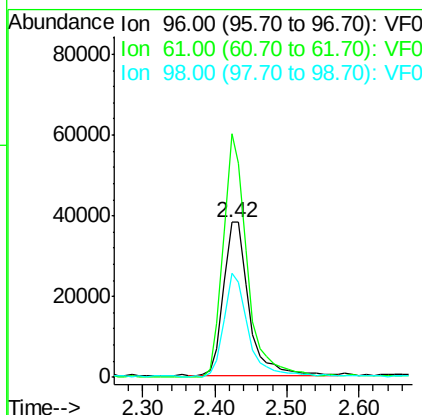
Acq: 16 Apr 2019 16:17

Tot Ion:	96	Resp:	91730
Ion	Ratio	Lower	Upper
96	100		
61	157.2	117.4	176.2
98	67.4	49.8	74.8

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Manual Integrations
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#22

Diisopropyl ether

Concen: 23.023 ug/l

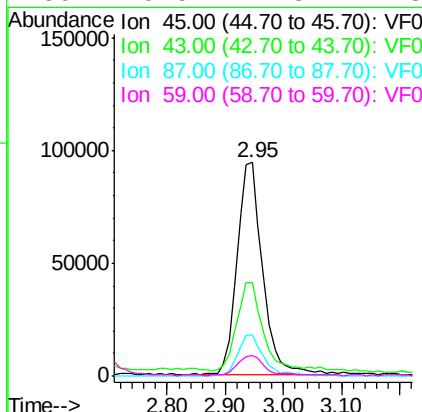
RT: 2.95 min Scan# 245

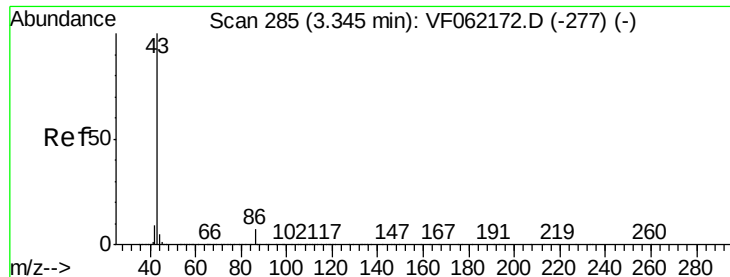
Delta R.T. 0.01 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	45	Resp:	283221
Ion	Ratio	Lower	Upper
45	100		
43	43.6	32.5	48.7
87	19.3	14.9	22.3
59	9.5	7.8	11.8





#23

Vinyl Acetate

Concen: 100.429 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 616256

Ion Ratio Lower Upper

43 100

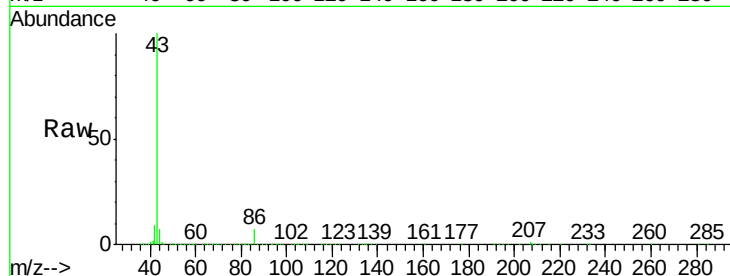
86 7.0 5.9 8.9

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

250000

200000

150000

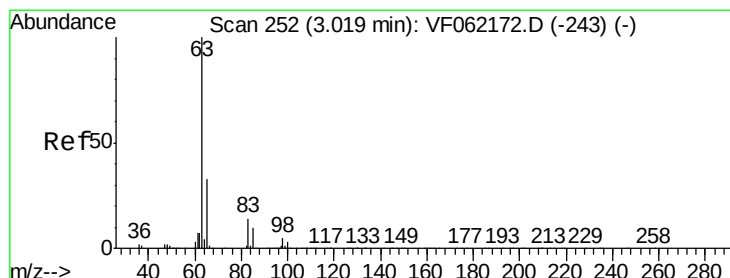
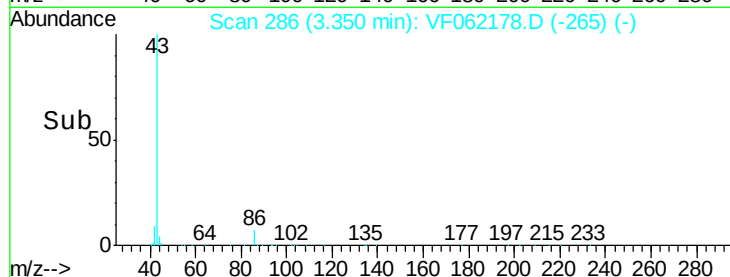
100000

50000

0

3.20 3.30 3.40 3.50 3.60

Time-->



#24

1,1-Dichloroethane

Concen: 22.410 ug/l

RT: 3.01 min Scan# 252

Delta R.T. -0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

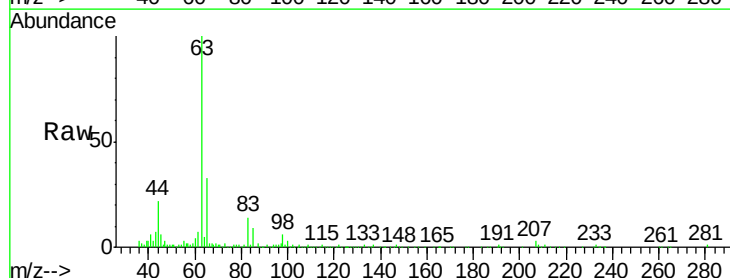
Tgt Ion: 63 Resp: 153514

Ion Ratio Lower Upper

63 100

98 6.3 2.6 8.0

100 3.2 1.7 5.1



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

80000

60000

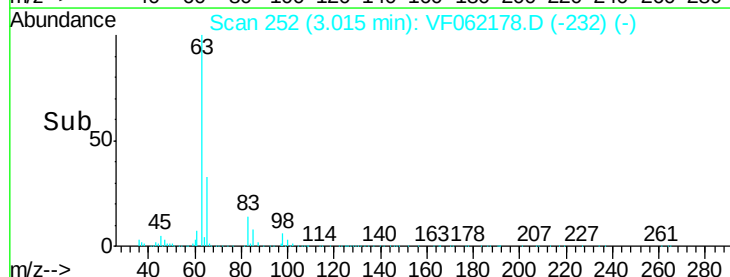
40000

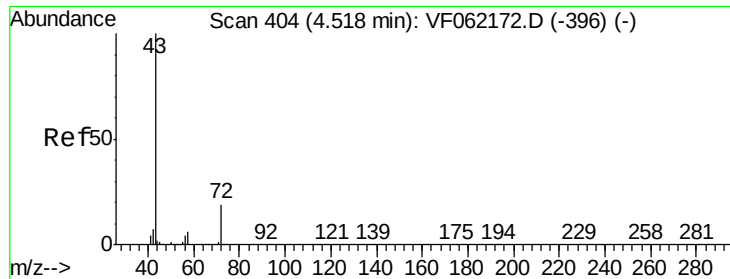
20000

0

2.90 3.00 3.10 3.20

Time-->





#25

2-Butanone

Concen: 96.134 ug/l

RT: 4.52 min Scan# 405

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 167907

Ion Ratio Lower Upper

43 100

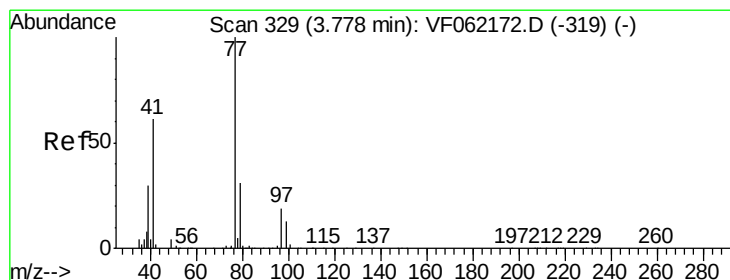
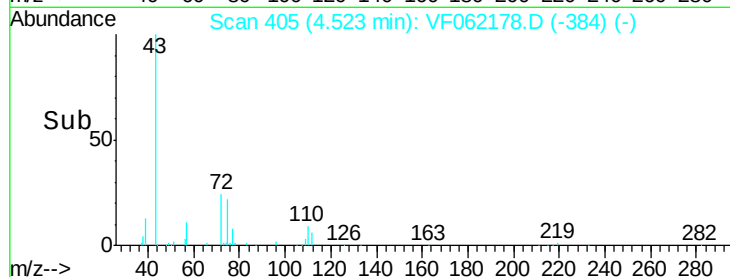
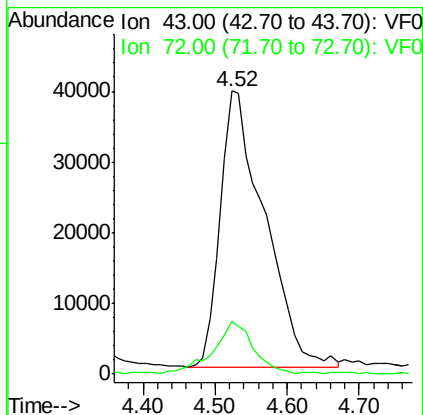
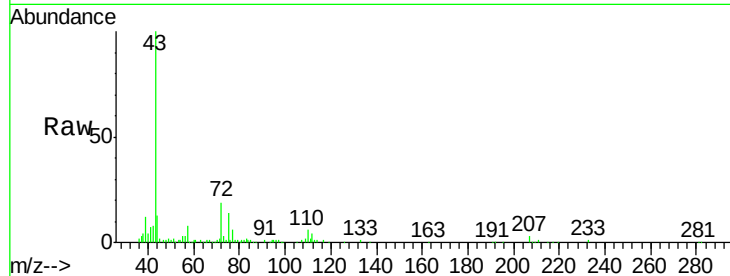
72 18.8 15.4 23.2

Manual Integrations

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4/17/2019 11:49:54 AM



#26

2,2-Dichloropropane

Concen: 24.879 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.00 min

Lab File: VF062178.D

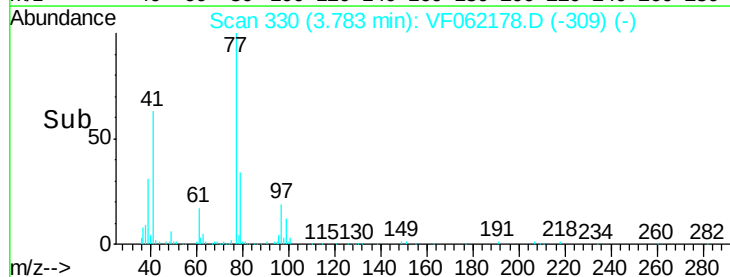
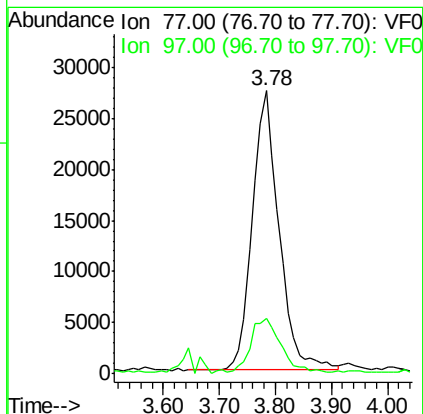
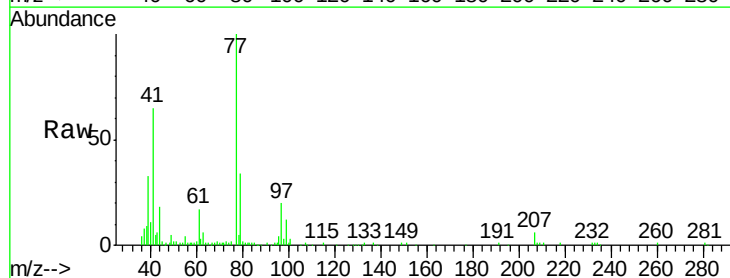
Acq: 16 Apr 2019 16:17

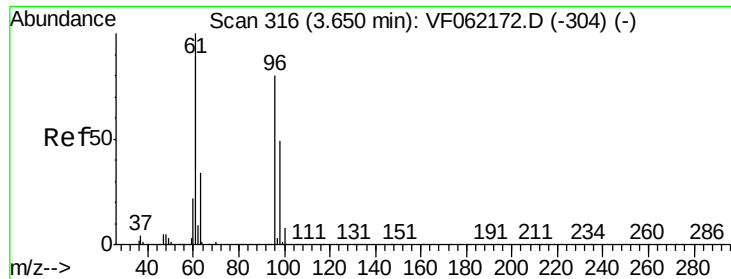
Tgt Ion: 77 Resp: 89642

Ion Ratio Lower Upper

77 100

97 19.6 10.3 30.9





#27

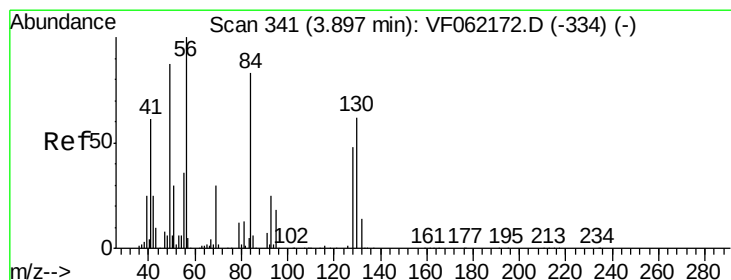
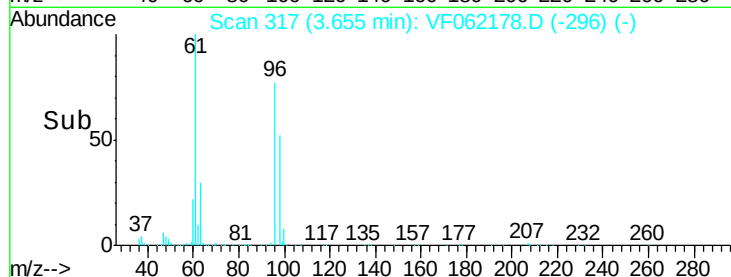
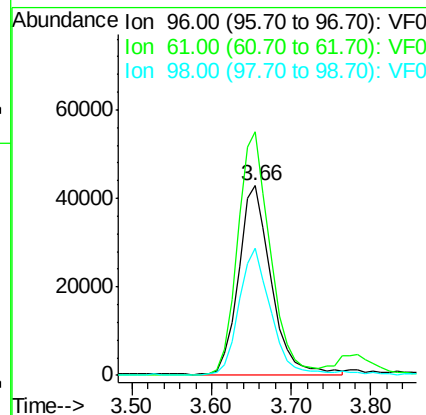
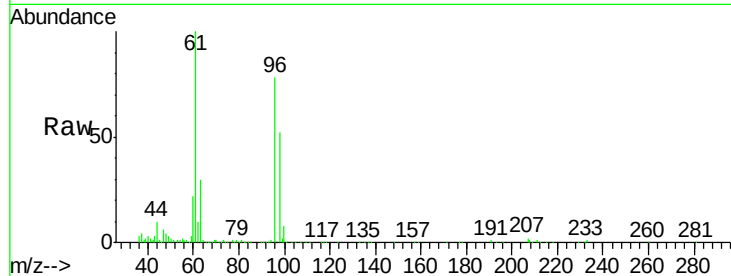
cis-1,2-Dichloroethene
 Concen: 21.600 ug/l
 RT: 3.66 min Scan# 317
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	120571		
61	128.5	0.0	248.2	
98	67.2	0.0	122.4	

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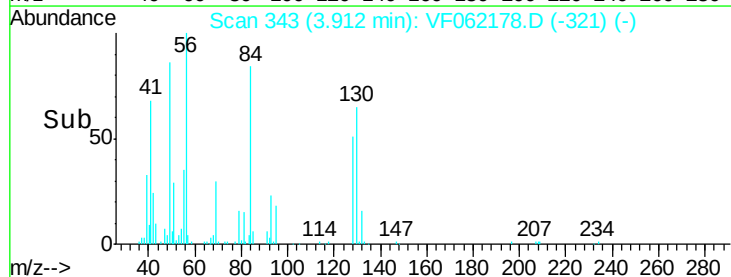
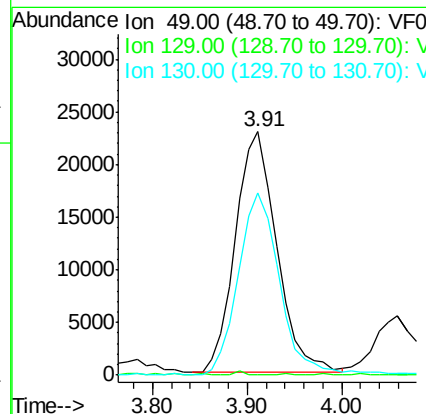
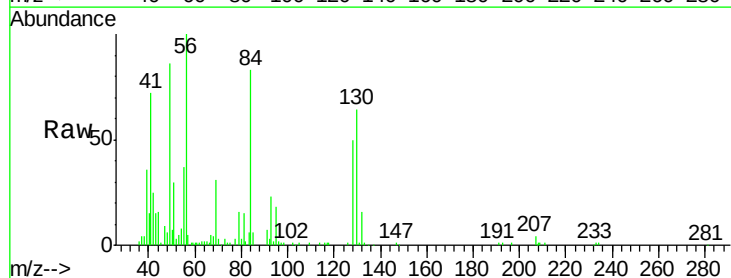
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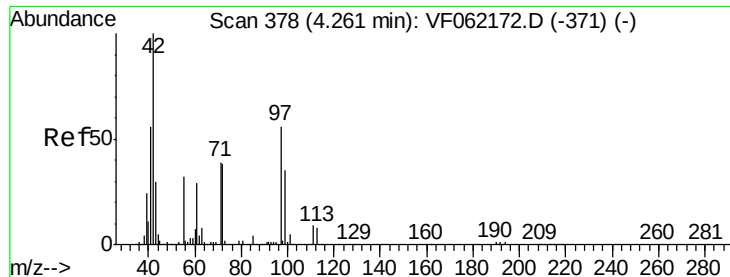


#28

Bromochloromethane
 Concen: 21.217 ug/l
 RT: 3.91 min Scan# 343
 Delta R.T. 0.01 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	69597		
129	0.0	0.0	0.0	
130	74.7	56.5	84.7	





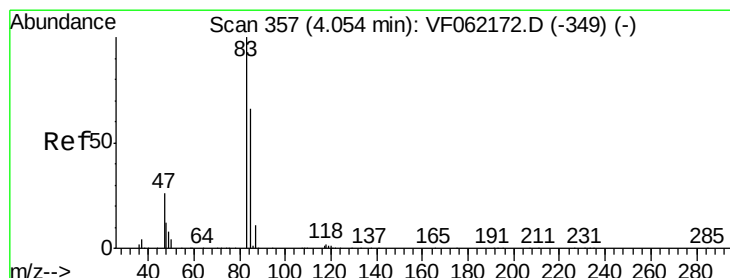
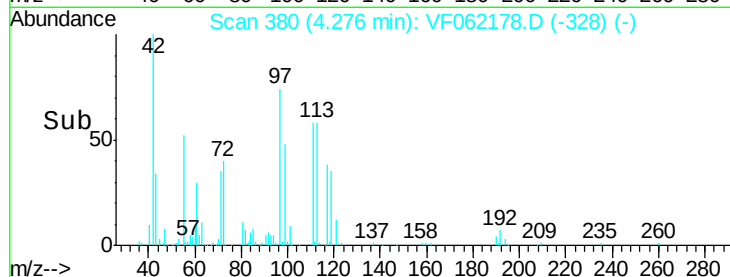
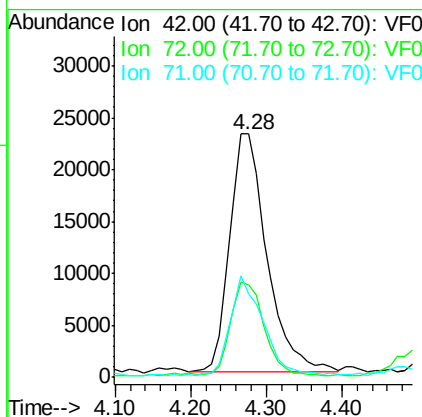
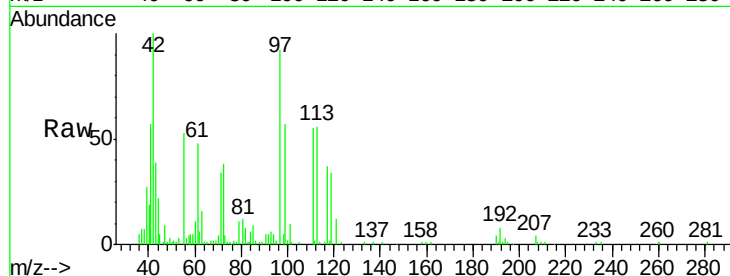
#29
Tetrahydrofuran
Concen: 100.461 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.01 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion:	42	Resp:	78041
Ion Ratio		Lower	Upper
42	100		
72	35.8	28.7	43.1
71	38.0	30.8	46.2

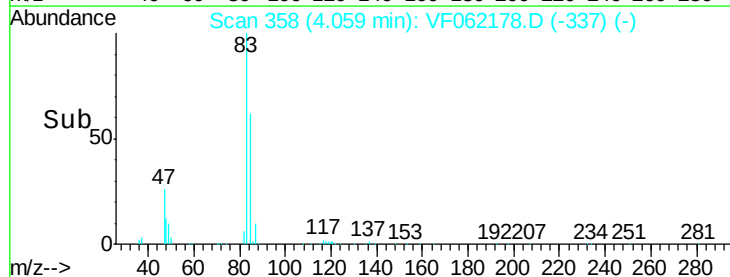
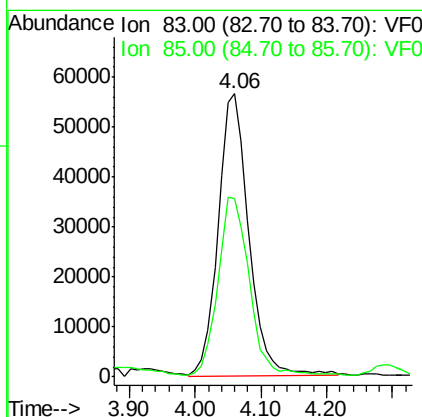
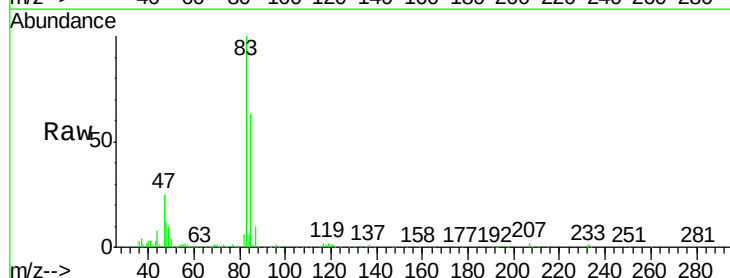
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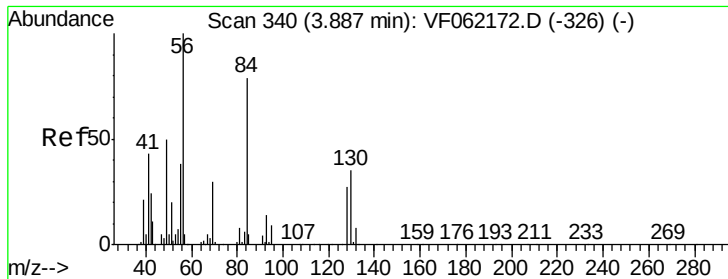
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#30
Chloroform
Concen: 21.448 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion:	83	Resp:	182661
Ion Ratio		Lower	Upper
83	100		
85	62.9	53.5	80.3





#31

Cyclohexane

Concen: 21.725 ug/l

RT: 3.88 min Scan# 340

Delta R.T. -0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

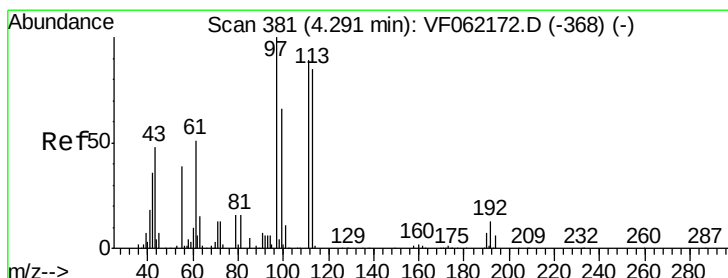
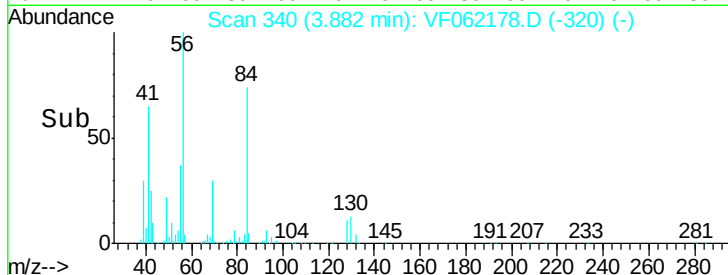
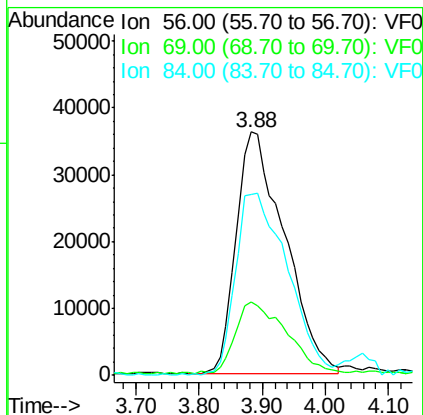
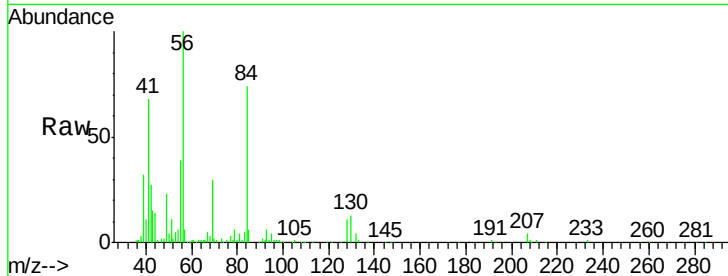
ClientSampleId :

VF0416SBS01

Tot Ion:	56	Resp:	192275
Ion Ratio	Lower	Upper	
56	100		
69	30.1	24.4	36.6
84	74.1	63.4	95.2

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#32

1,1,1-Trichloroethane

Concen: 24.062 ug/l

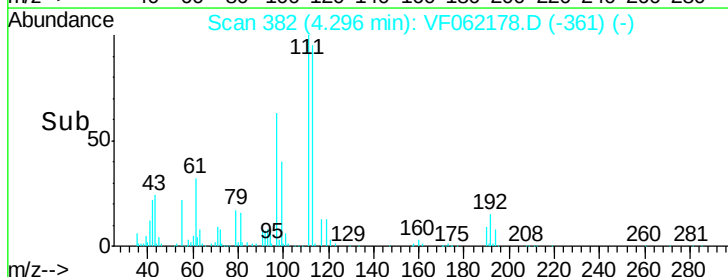
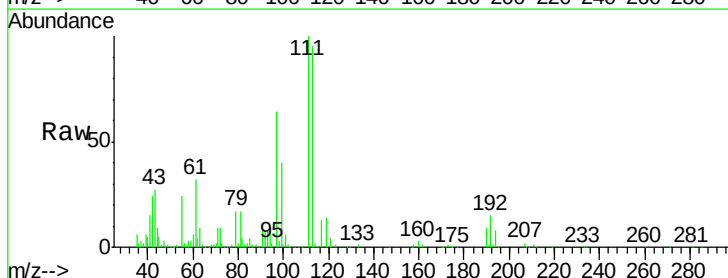
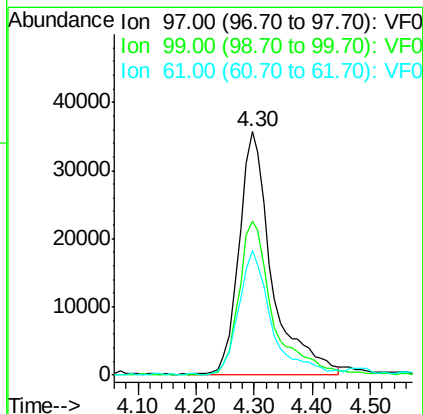
RT: 4.30 min Scan# 382

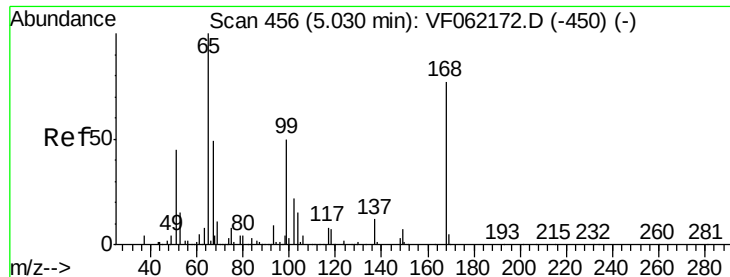
Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	97	Resp:	139738
Ion Ratio	Lower	Upper	
97	100		
99	63.4	52.3	78.5
61	50.9	40.9	61.3





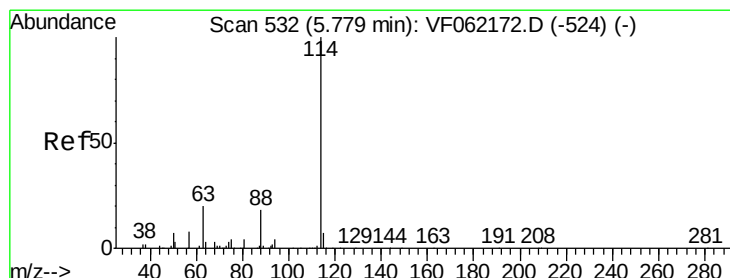
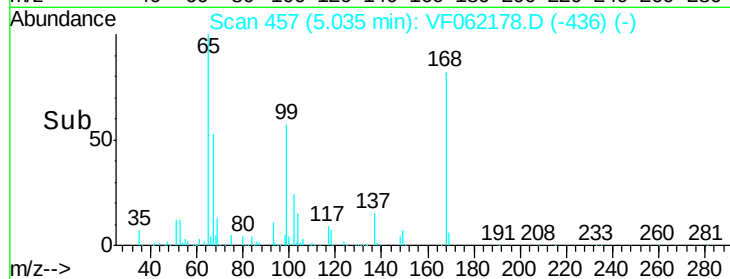
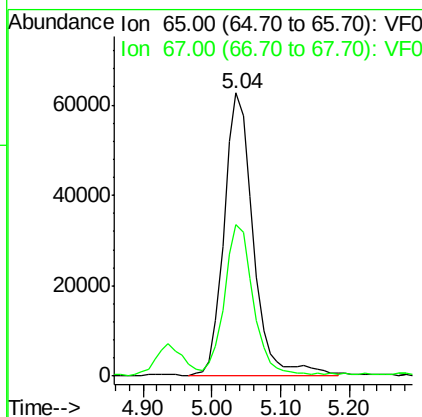
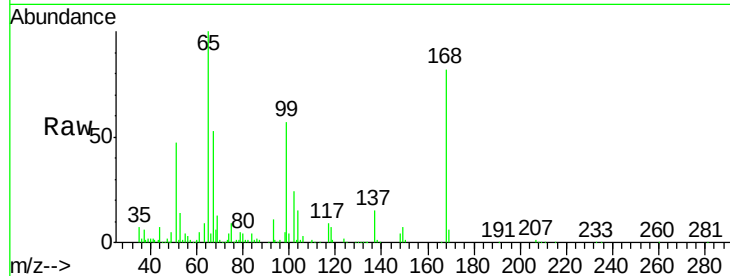
#33
 1,2-Dichloroethane-d4
 Concen: 50.556 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	182309		
67	53.5	0.0	107.8	

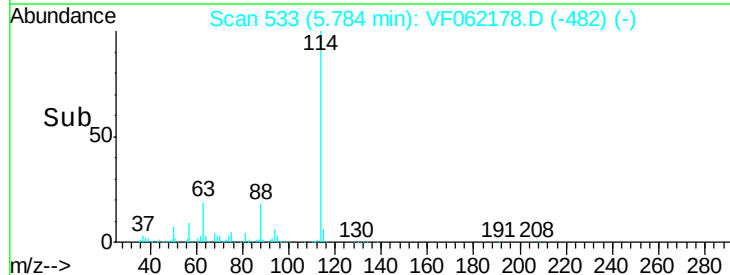
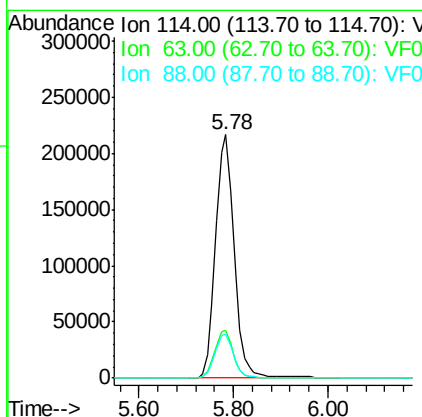
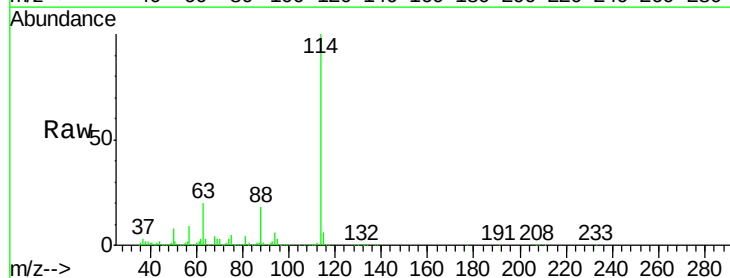
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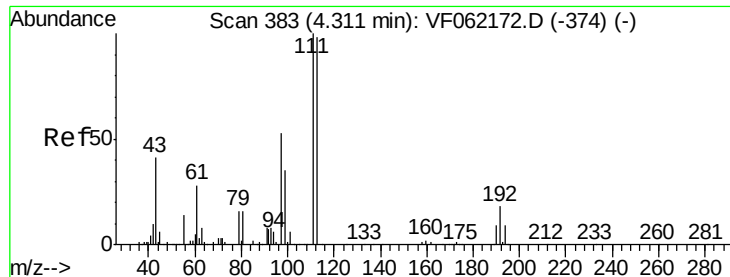
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	596114		
63	19.5	0.0	40.0	
88	17.9	0.0	36.6	





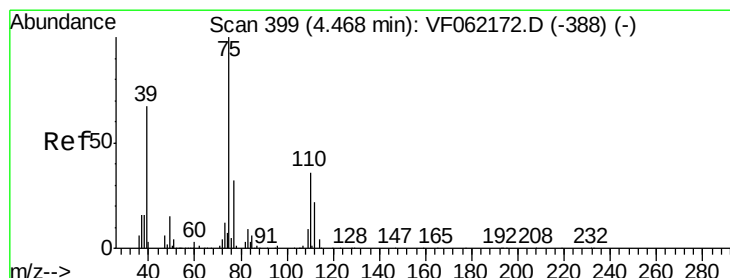
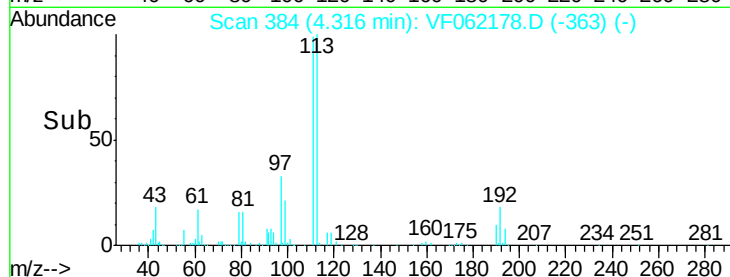
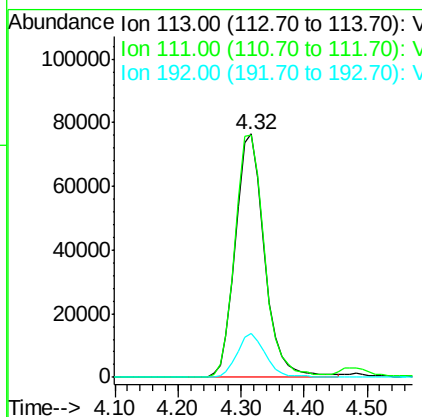
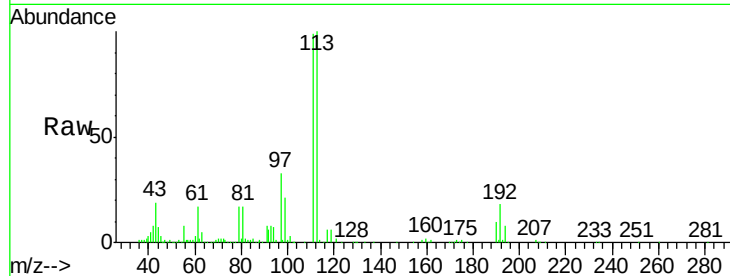
#35
 Dibromofluoromethane
 Concen: 51.870 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	243909		
111	99.3	81.6	122.4	
192	18.2	15.0	22.4	

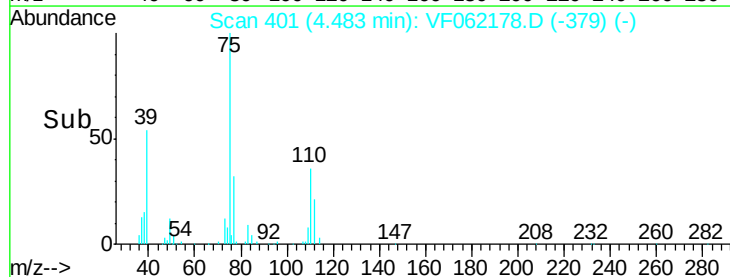
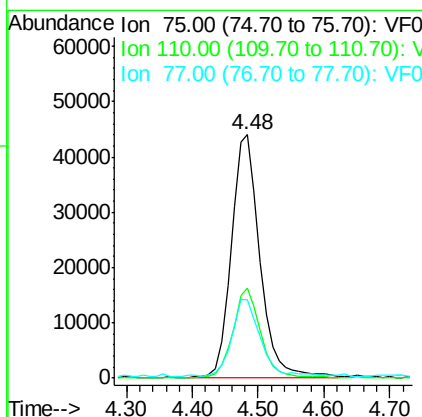
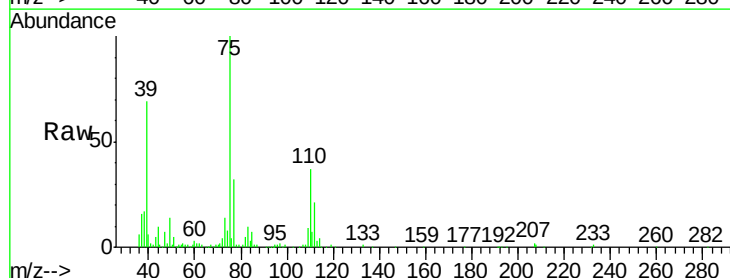
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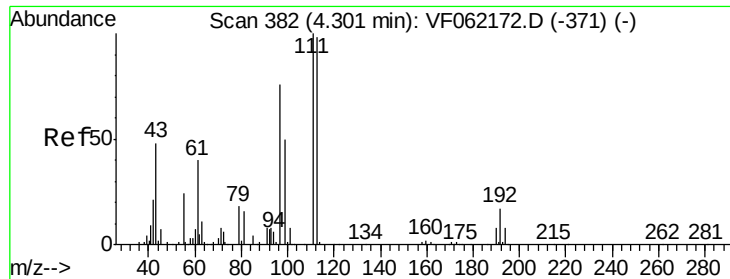
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#36
 1,1-Dichloropropene
 Concen: 20.114 ug/l
 RT: 4.48 min Scan# 401
 Delta R.T. 0.01 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	133222		
110	36.9	17.9	53.8	
77	32.3	25.6	38.4	





#37

Ethyl Acetate

Concen: 20.568 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 62771

Ion Ratio Lower Upper

43 100

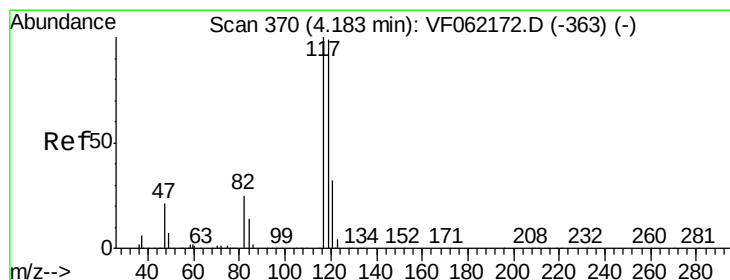
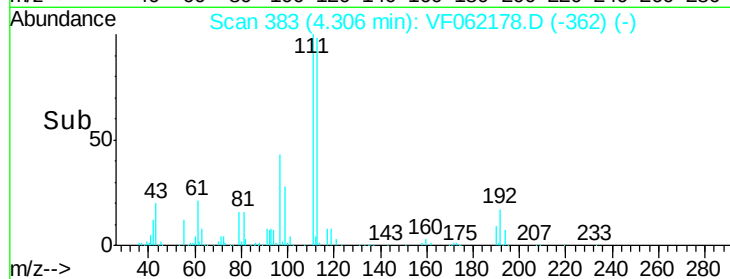
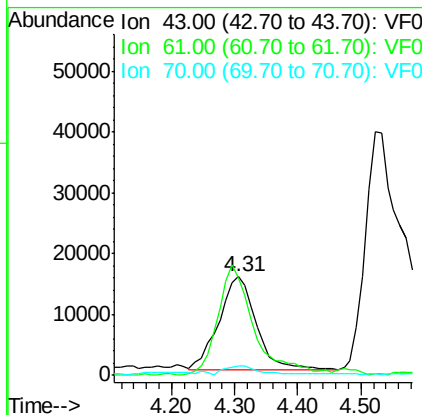
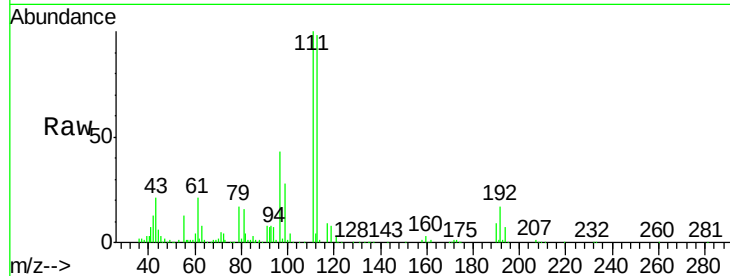
61 99.7 64.9 97.3#

70 10.0 7.8 11.8

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#38

Carbon Tetrachloride

Concen: 23.125 ug/l

RT: 4.19 min Scan# 371

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

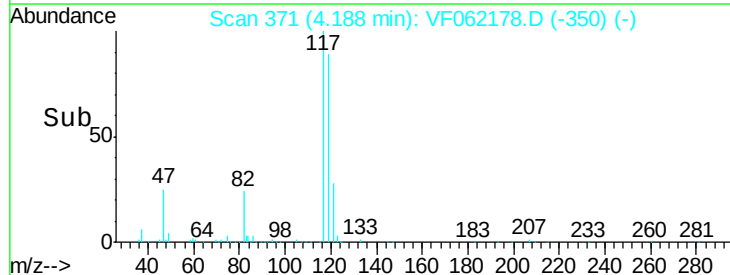
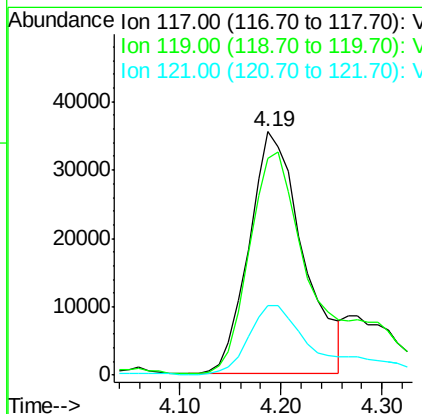
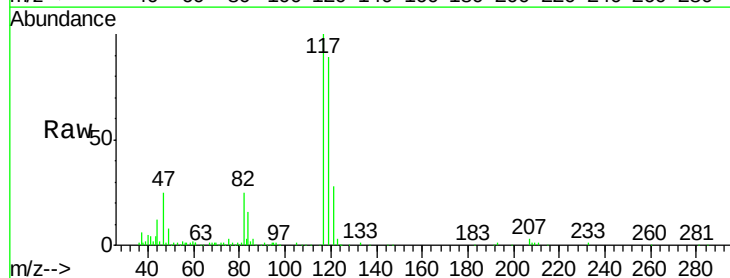
Tgt Ion: 117 Resp: 131828

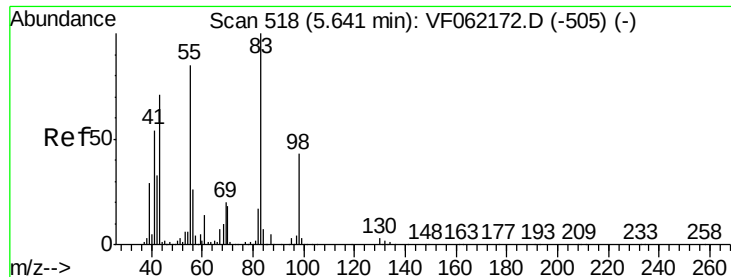
Ion Ratio Lower Upper

117 100

119 89.1 78.9 118.3

121 28.4 25.3 37.9





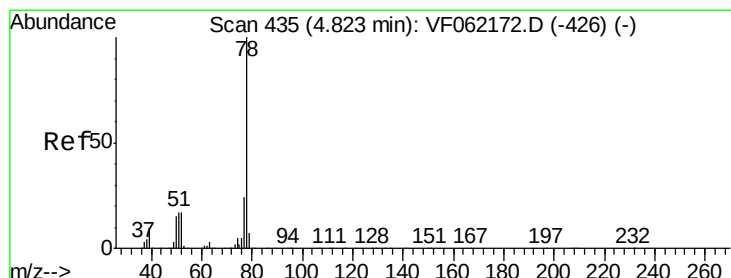
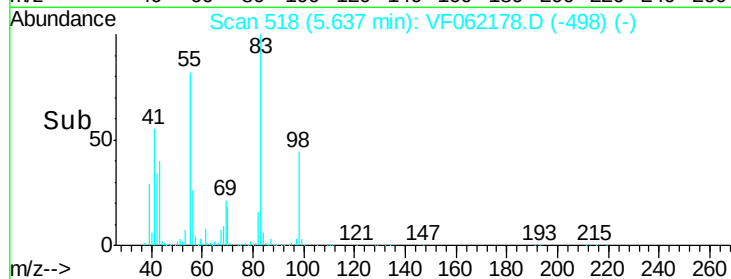
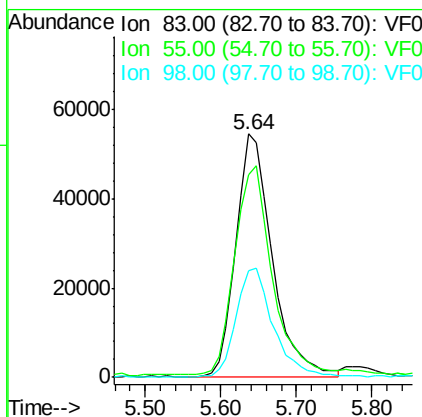
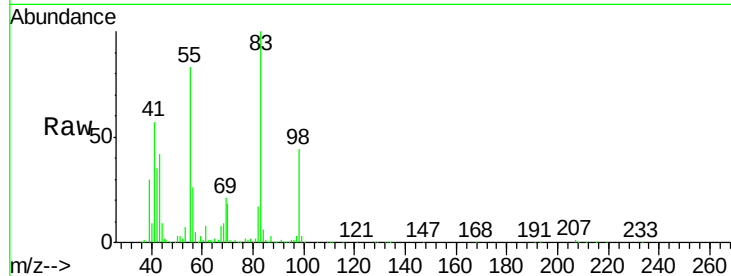
#39
Methylvlcyclohexane
Concen: 21.914 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.0	68.2	102.2
98	43.8	34.4	51.6

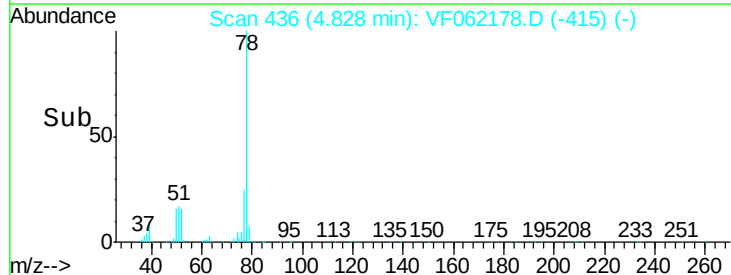
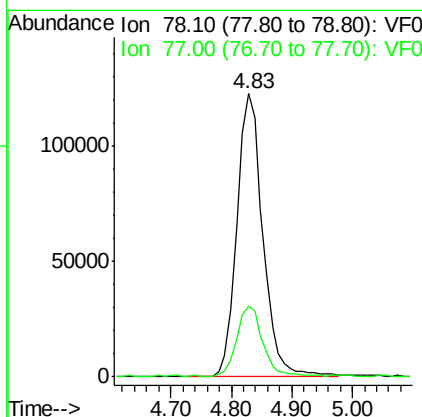
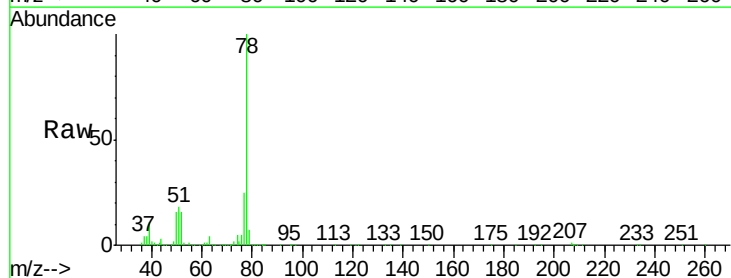
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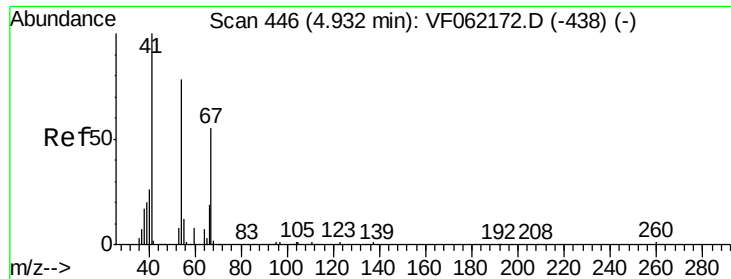
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#40
Benzene
Concen: 20.863 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.1	28.7





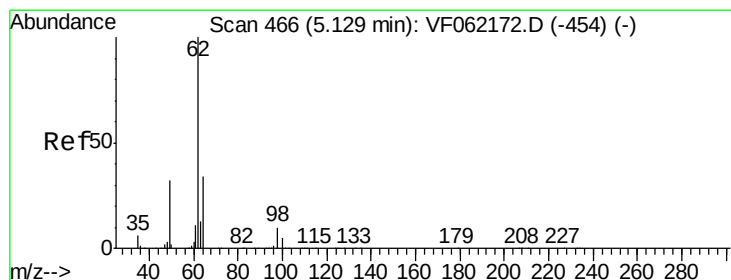
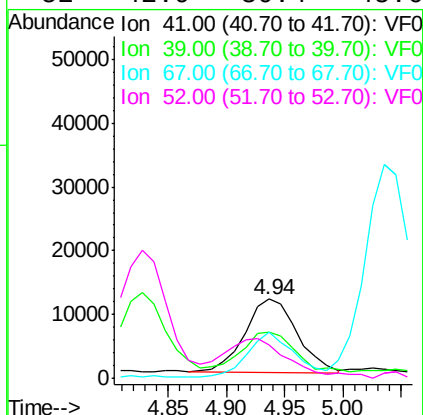
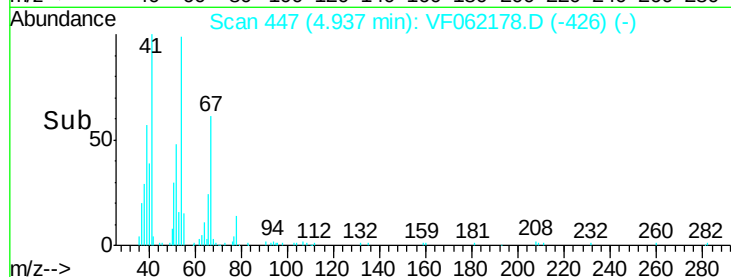
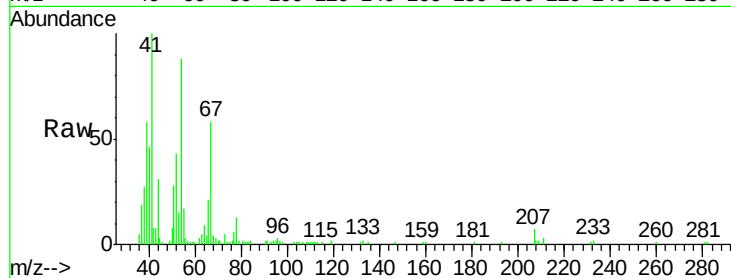
#41
Methacrylonitrile
Concen: 19.373 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.1	43.5	65.3
67	58.1	42.9	64.3
52	42.9	30.4	45.6

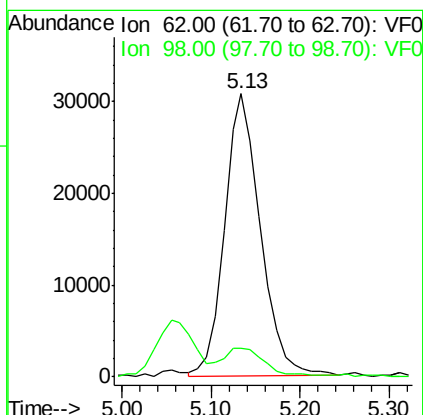
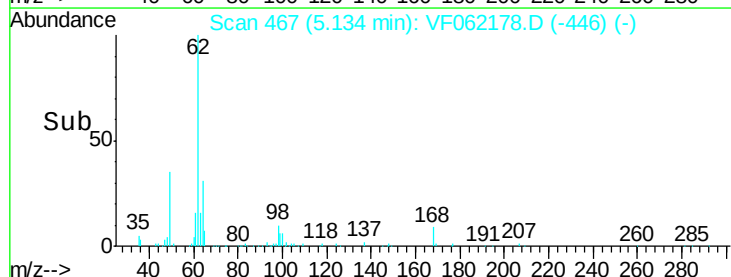
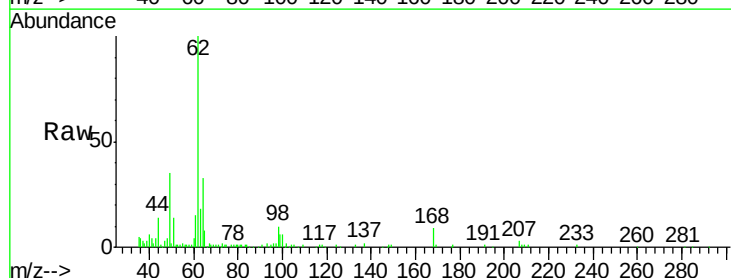
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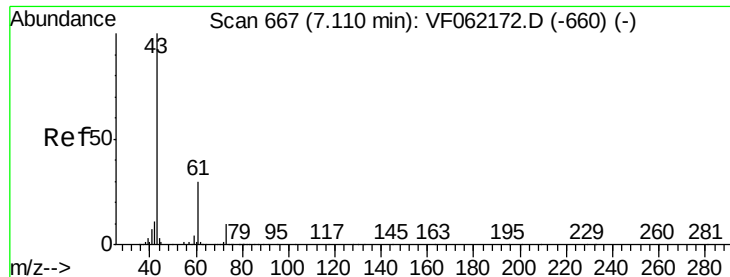
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#42
1,2-Dichloroethane
Concen: 19.448 ug/l
RT: 5.13 min Scan# 467
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	22.0





#43

Isopropyl Acetate

Concen: 19.378 ug/l

RT: 7.12 min Scan# 668

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

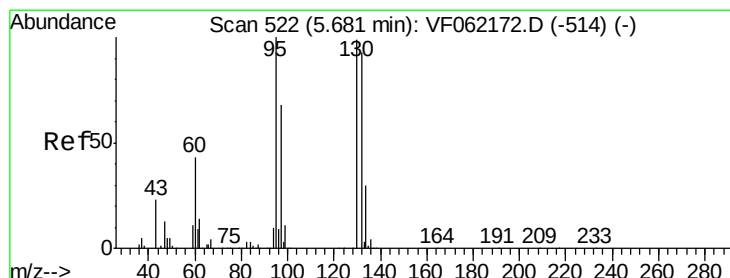
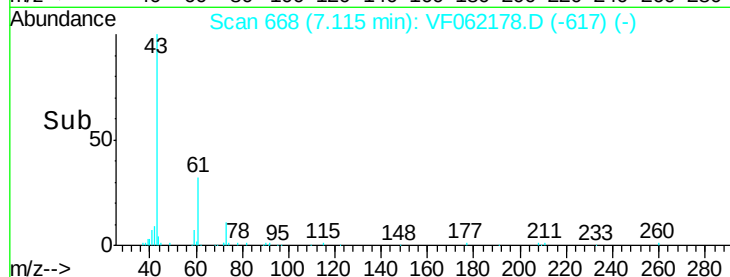
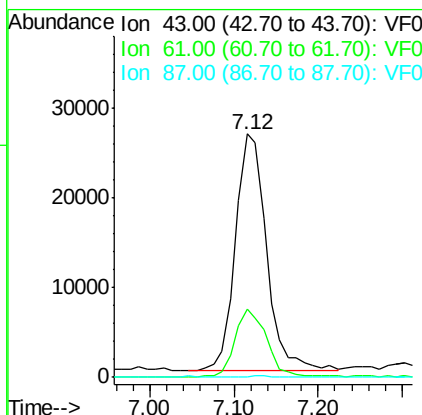
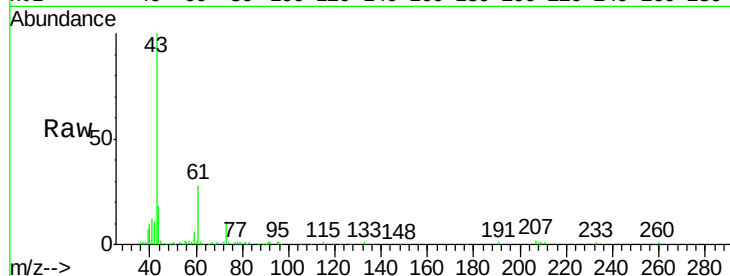
ClientSampleId :

VF0416SBS01

Tot Ion:	43	Resp:	68327
Ion	Ratio	Lower	Upper
43	100		
61	28.0	23.7	35.5
87	0.4	0.3	0.5

Manual Integrations
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#44

Trichloroethene

Concen: 19.851 ug/l

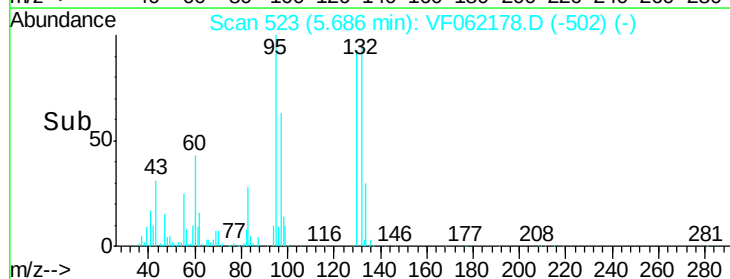
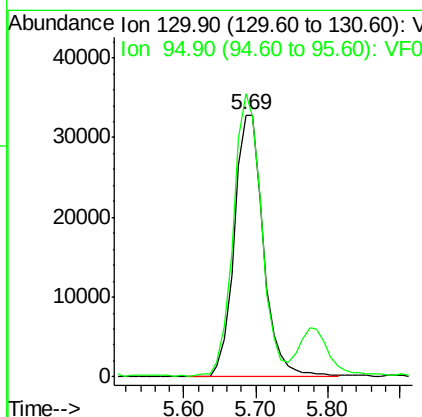
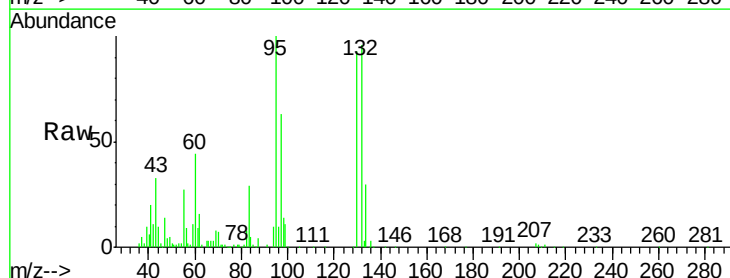
RT: 5.69 min Scan# 523

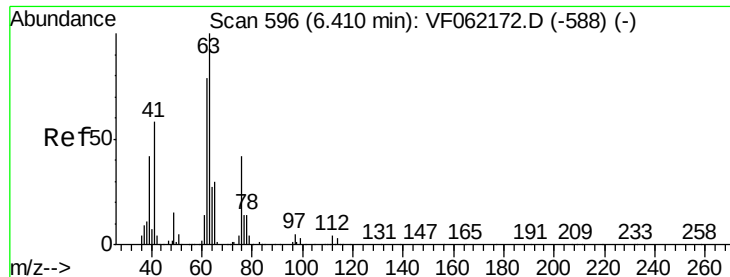
Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	130	Resp:	92955
Ion	Ratio	Lower	Upper
130	100		
95	107.9	0.0	202.2





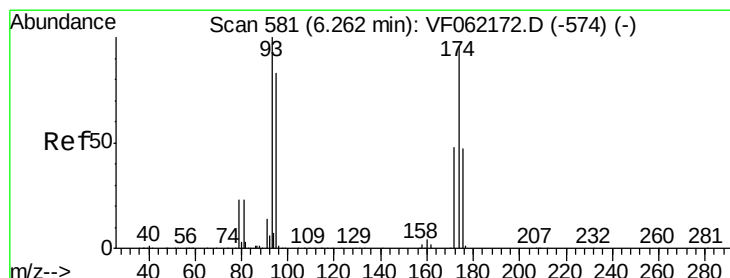
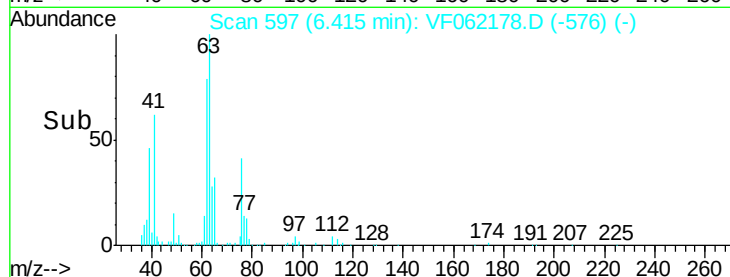
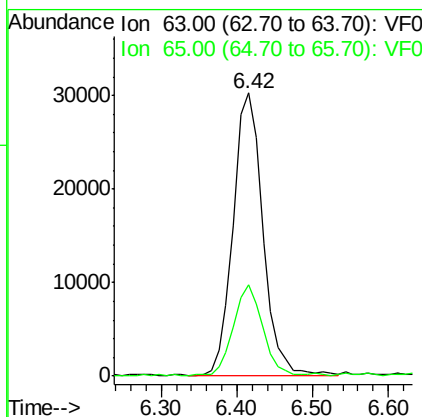
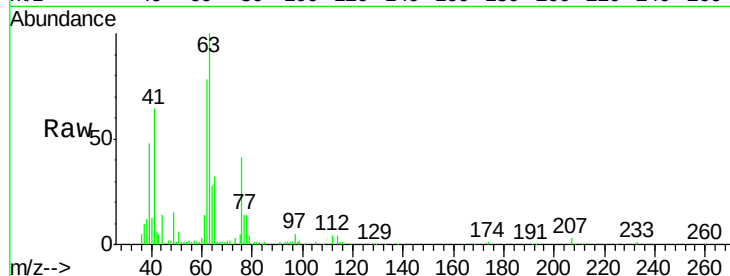
#45
 1,2-Dichloropropane
 Concen: 19.308 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.3	23.7	35.5

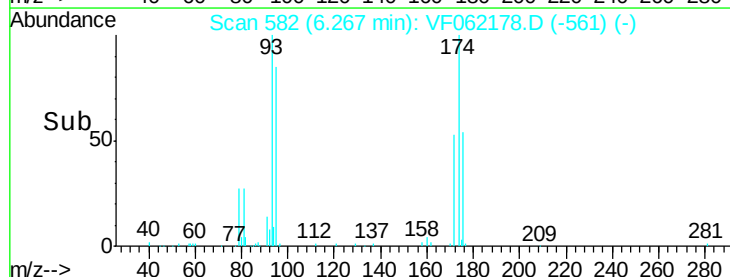
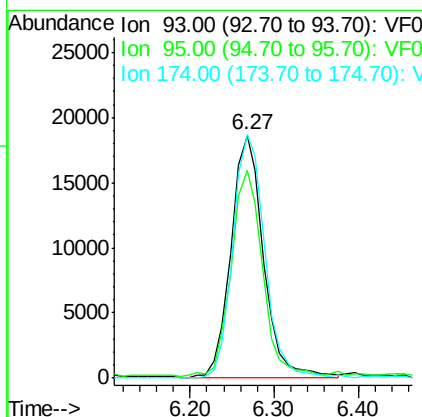
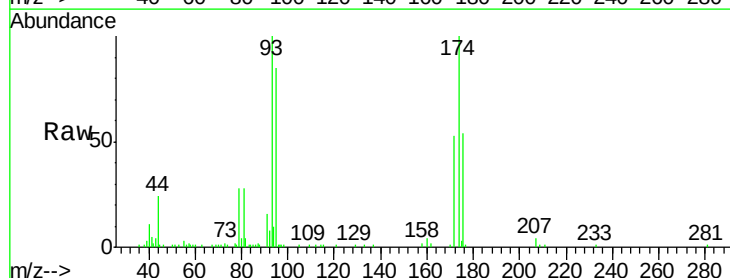
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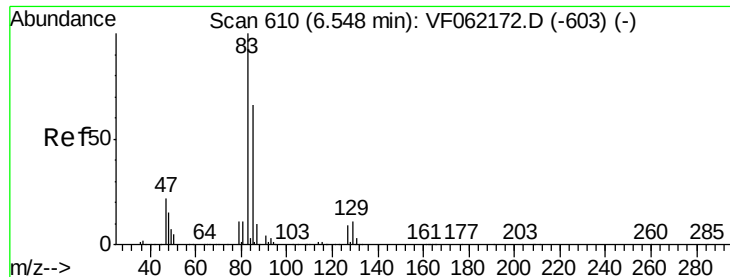
MMDadoda
 4/17/2019 11:49:54 AM



#46
 Dibromomethane
 Concen: 19.447 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
93	100		
95	85.4	67.0	100.6
174	100.3	76.3	114.5





#47

Bromodichloromethane

Concen: 19.411 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.01 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

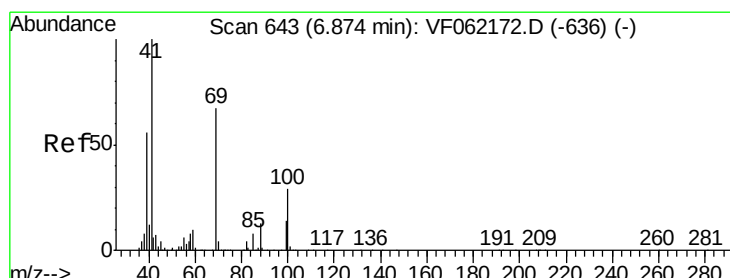
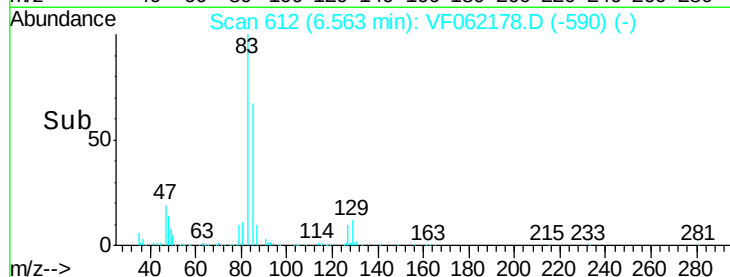
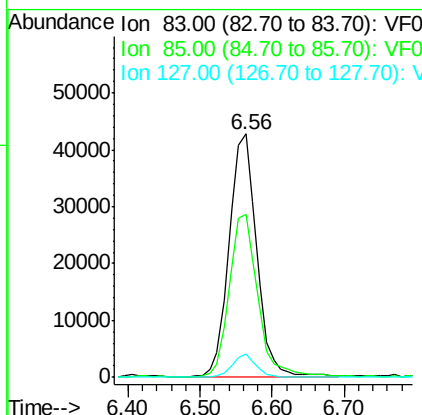
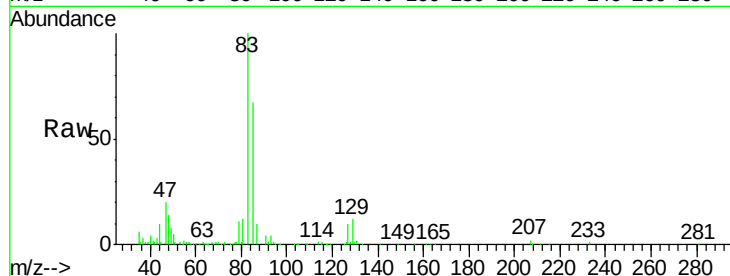
ClientSampleId :

VF0416SBS01

Tot Ion:	83	Resp:	113812
Ion Ratio	Lower	Upper	
83	100		
85	67.1	52.6	79.0
127	9.8	6.8	10.2

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#48

Methyl methacrylate

Concen: 18.518 ug/l

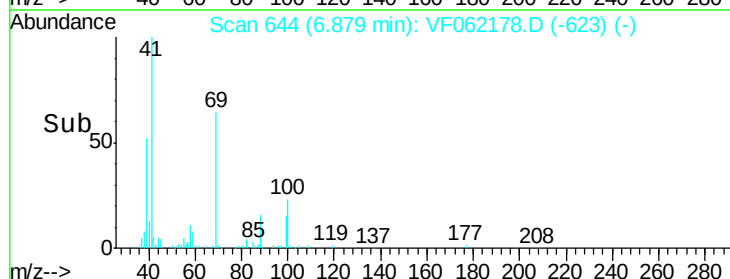
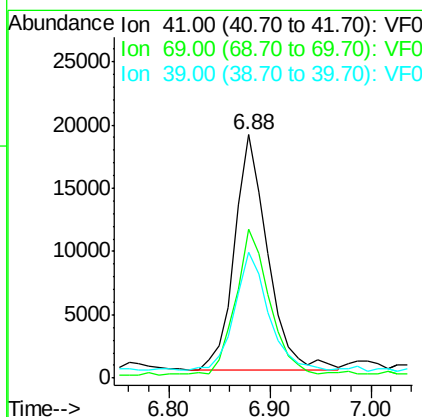
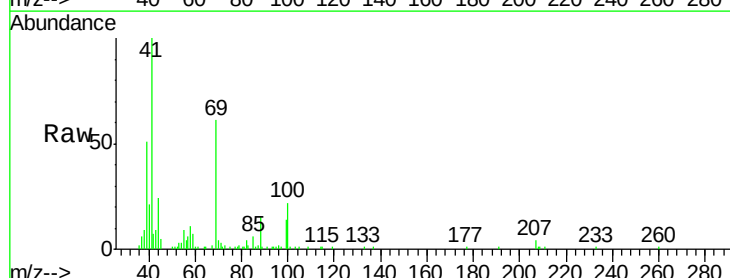
RT: 6.88 min Scan# 644

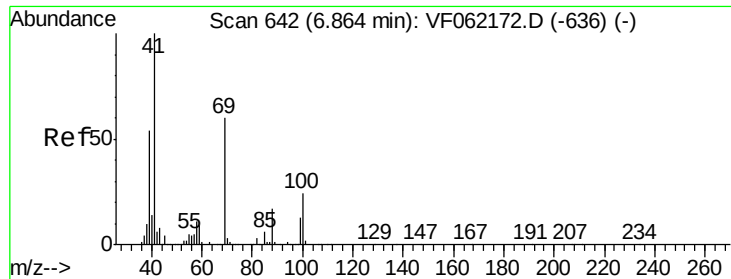
Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	41	Resp:	42751
Ion Ratio	Lower	Upper	
41	100		
69	61.2	52.8	79.2
39	51.4	45.0	67.4





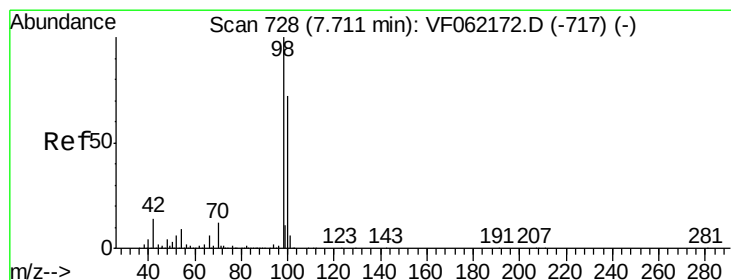
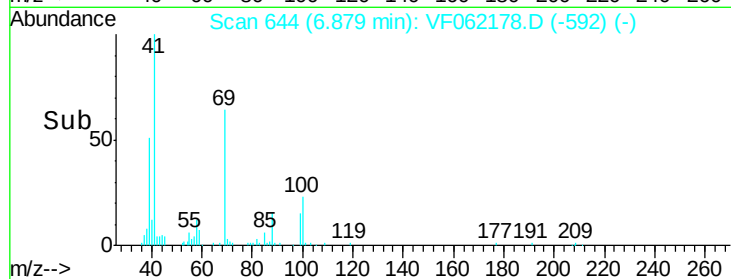
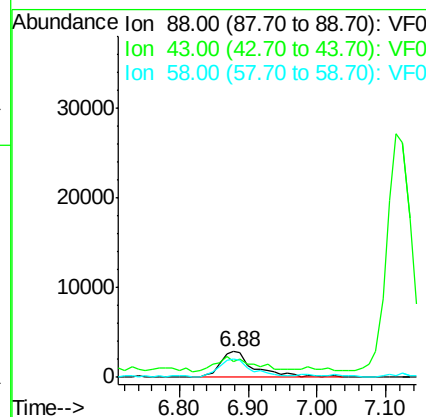
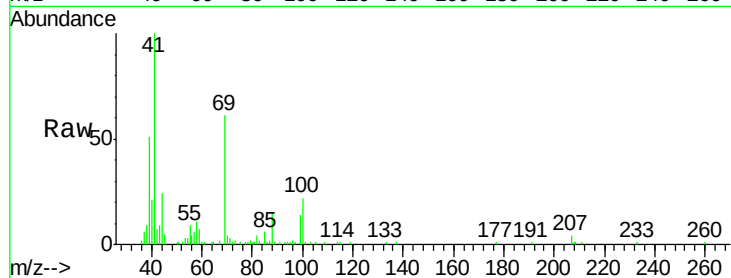
#49
1,4-Dioxane
Concen: 554.134 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	88	Resp	9969
Ion	Ratio	Lower	Upper
88	100		
43	62.5	49.5	74.3
58	74.3	52.6	79.0

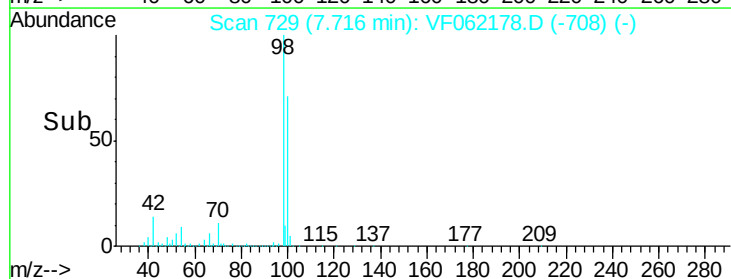
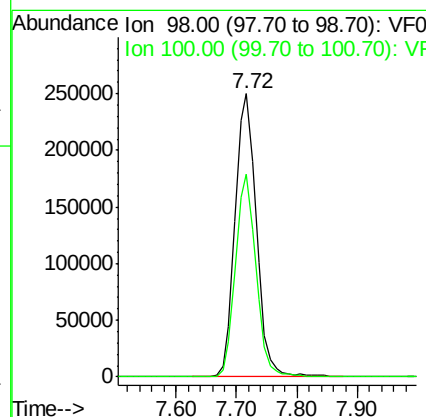
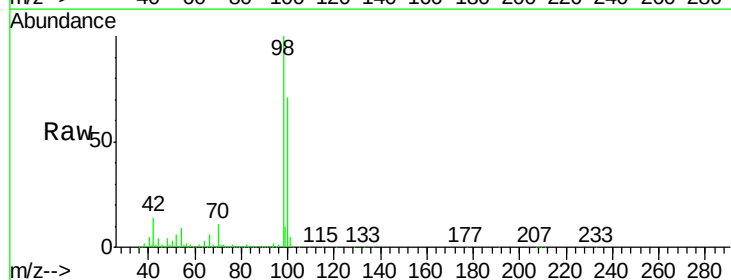
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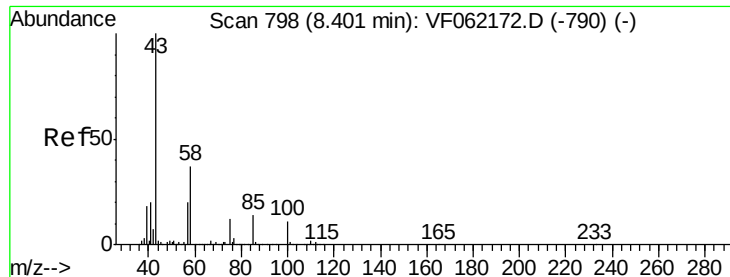
MMDadoda
4/17/2019 11:49:54 AM



#50
Toluene-d8
Concen: 44.672 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	98	Resp	613857
Ion	Ratio	Lower	Upper
98	100		
100	71.4	57.4	86.0





#51

4-Methyl-2-Pentanone

Concen: 102.180 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 277634

Ion Ratio Lower Upper

43 100

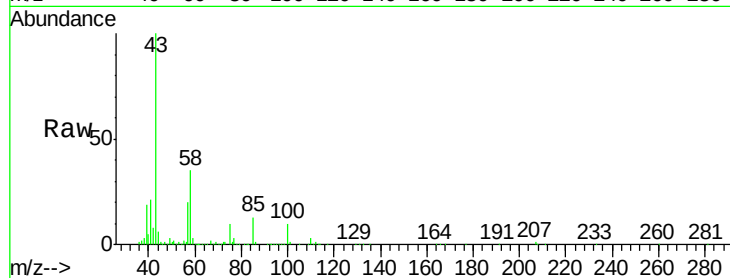
58 35.1 29.7 44.5

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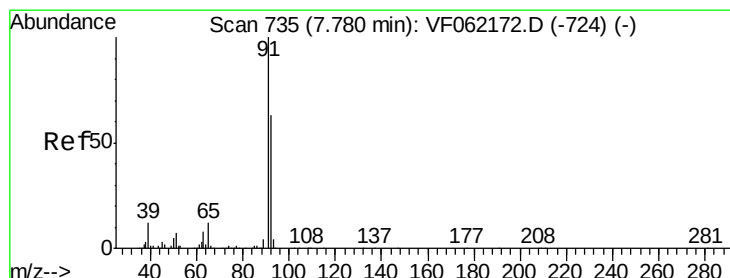
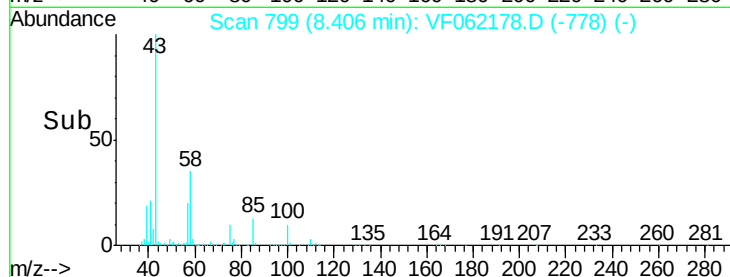
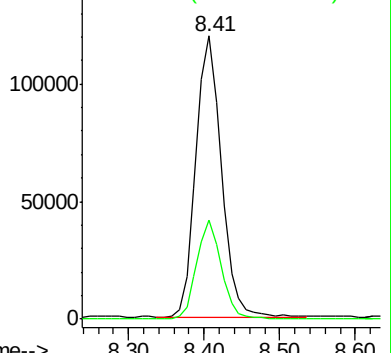
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 18.784 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF062178.D

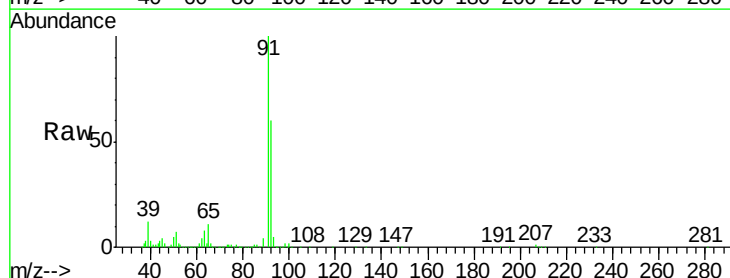
Acq: 16 Apr 2019 16:17

Tgt Ion: 92 Resp: 193051

Ion Ratio Lower Upper

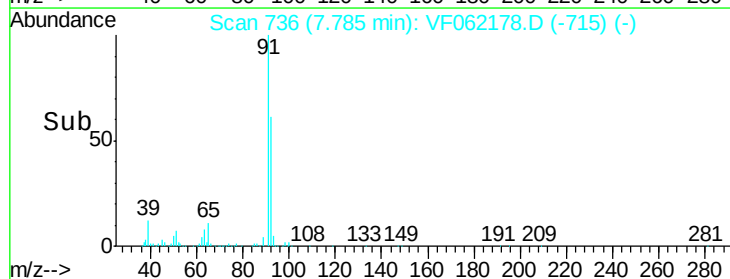
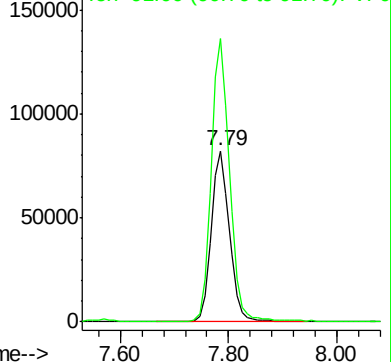
92 100

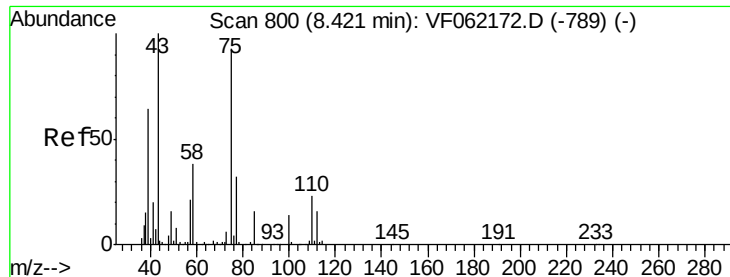
91 165.6 126.9 190.3



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: 17.571 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 75 Resp: 89241

Ion Ratio Lower Upper

75 100

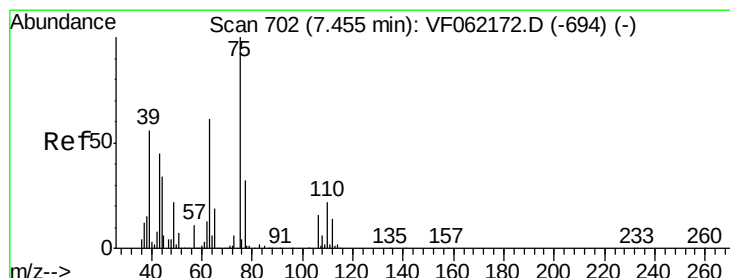
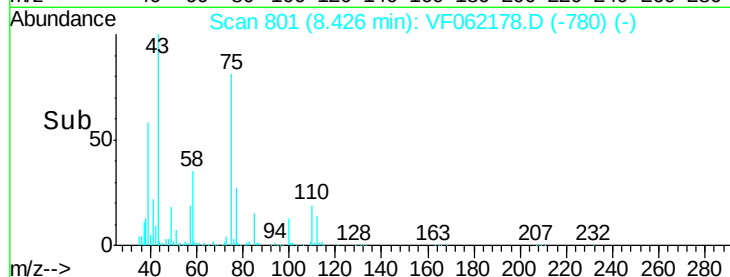
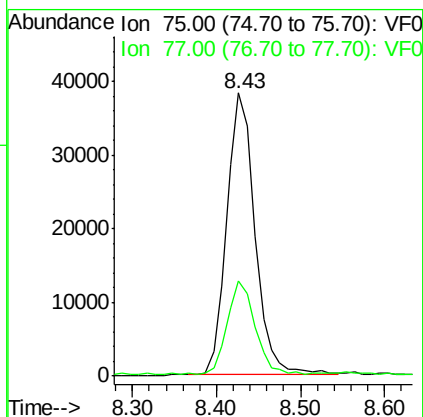
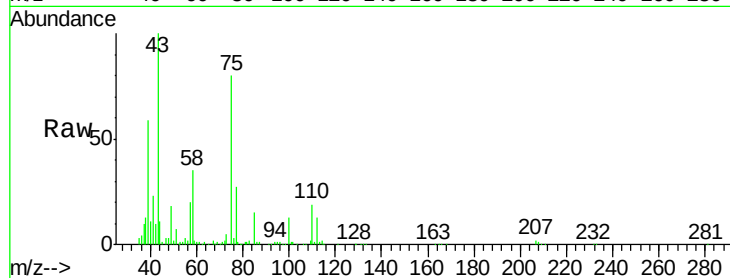
77 33.7 27.8 41.6

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#54

cis-1,3-Dichloropropene

Concen: 19.120 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.01 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

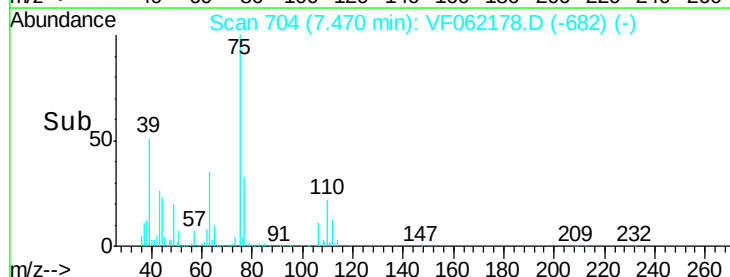
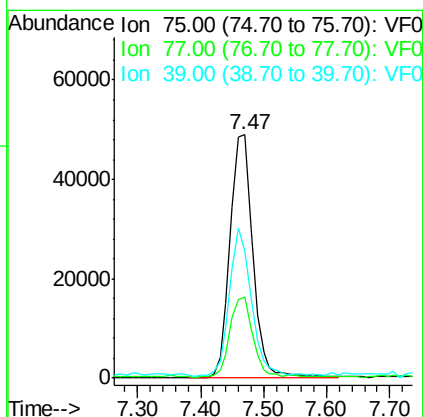
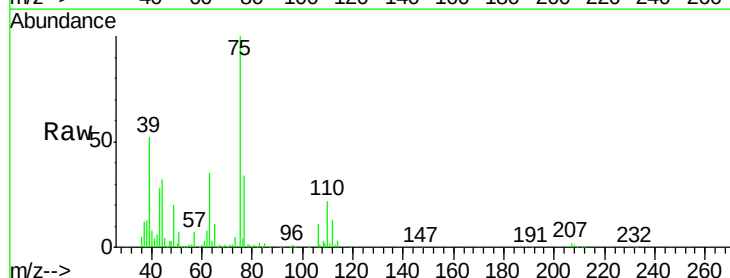
Tgt Ion: 75 Resp: 123476

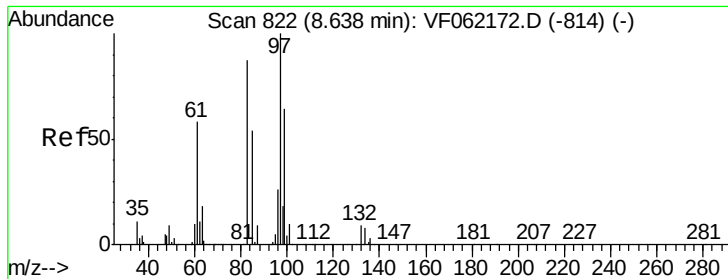
Ion Ratio Lower Upper

75 100

77 33.5 26.0 39.0

39 52.2 45.2 67.8





#55

1,1,2-Trichloroethane

Concen: 18.626 ug/l

RT: 8.63 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

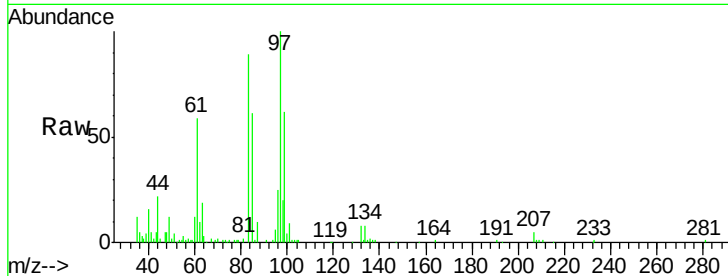
ClientSampleId :

VF0416SBS01

Tot Ion:	97	Resp:	54827
Ion	Ratio	Lower	Upper
97	100		
83	89.0	69.6	104.4
85	60.7	43.5	65.3
99	62.5	51.5	77.3

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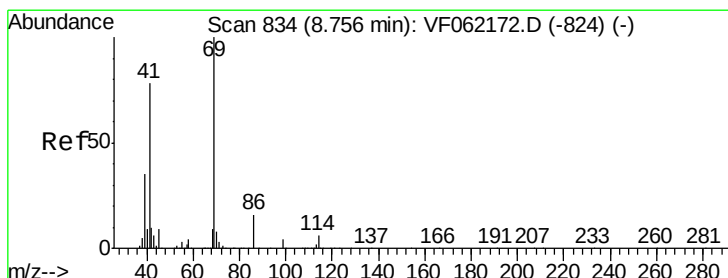
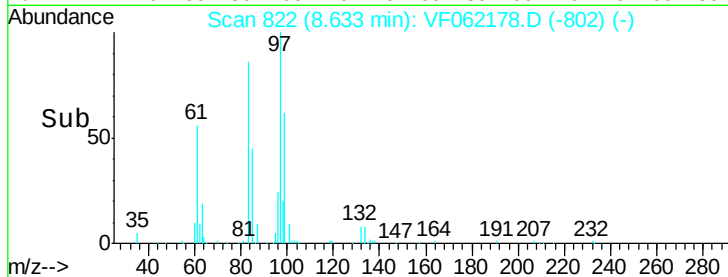
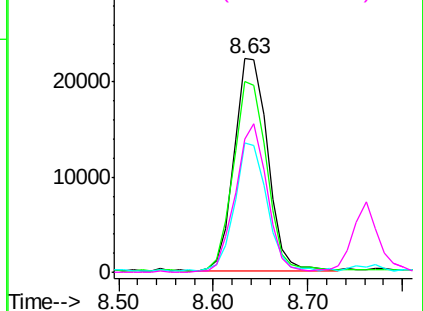


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 19.998 ug/l

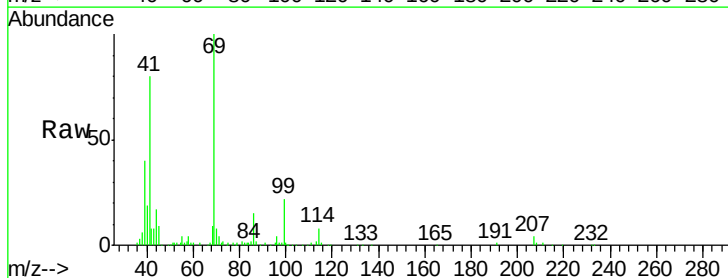
RT: 8.76 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

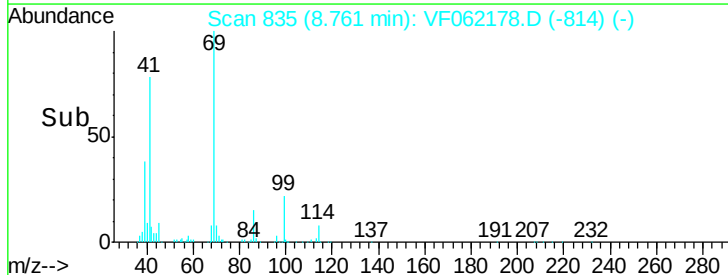
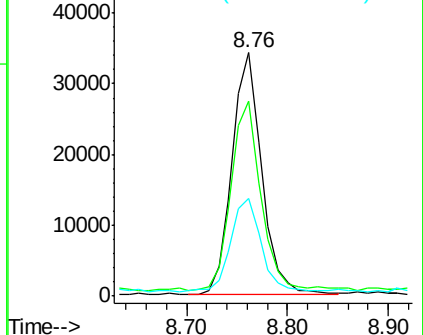
Tgt Ion:	69	Resp:	69998
Ion	Ratio	Lower	Upper
69	100		
41	80.2	63.4	95.0
39	39.9	29.0	43.6

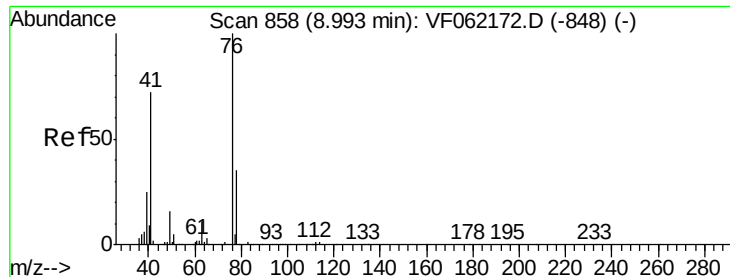


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 18.262 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 76 Resp: 88376

Ion Ratio Lower Upper

76 100

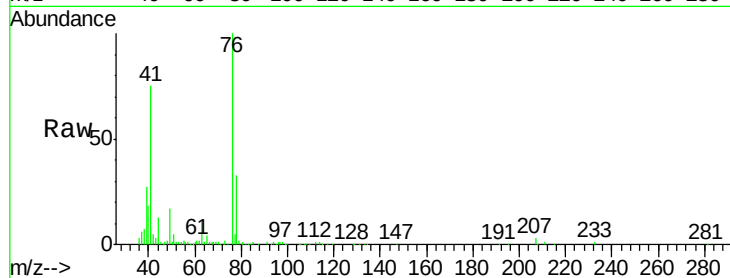
78 33.0 28.2 42.2

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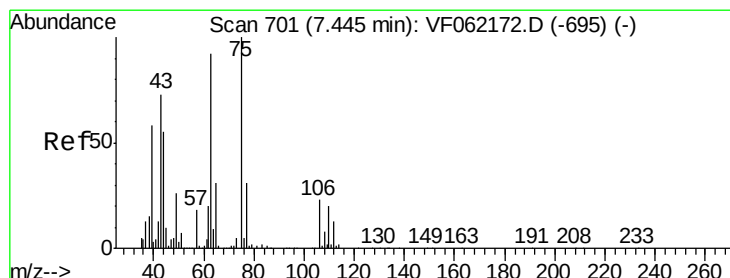
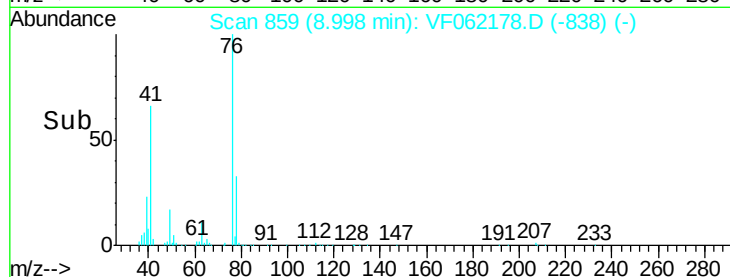
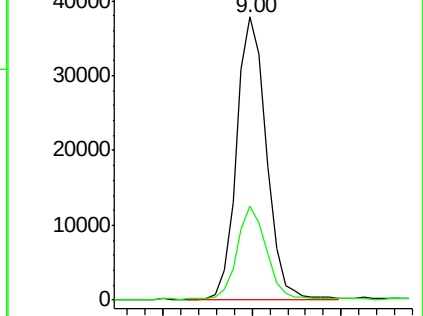
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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 79.949 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF062178.D

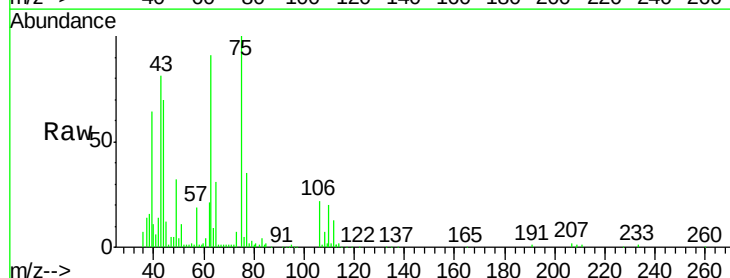
Acq: 16 Apr 2019 16:17

Tgt Ion: 63 Resp: 72102

Ion Ratio Lower Upper

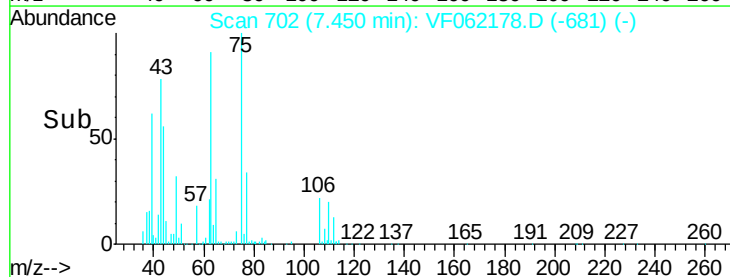
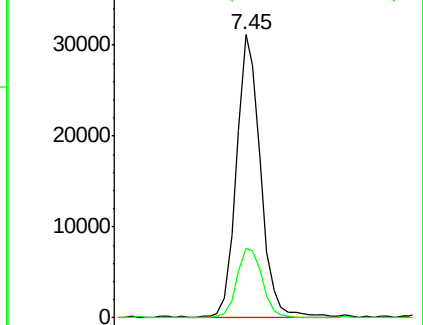
63 100

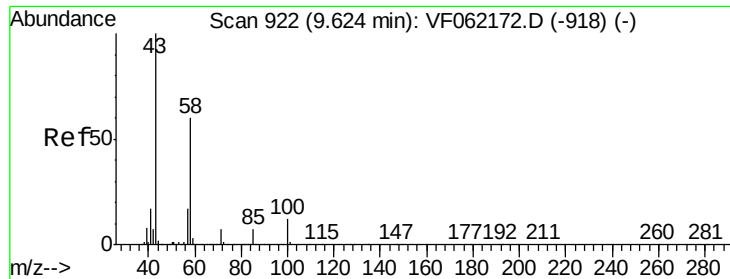
106 24.7 20.2 30.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





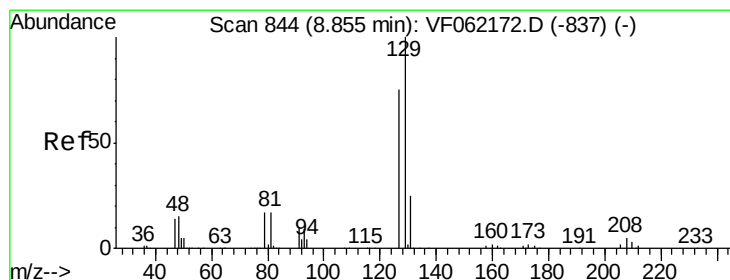
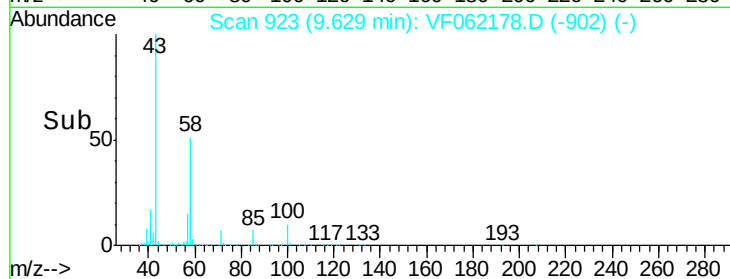
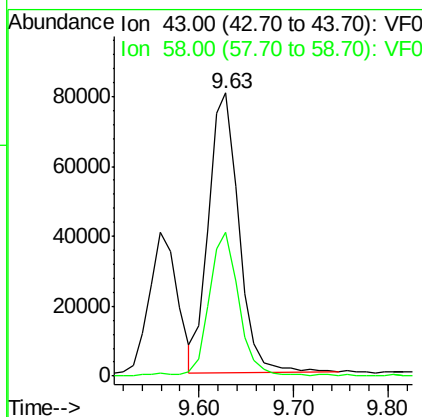
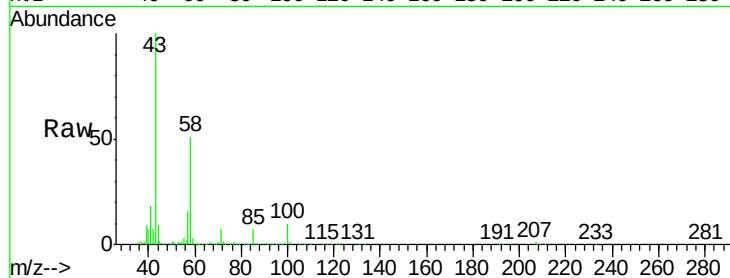
#59
2-Hexanone
Concen: 102.676 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion: 43 Resp: 177304
Ion Ratio Lower Upper
43 100
58 50.6 26.8 80.4

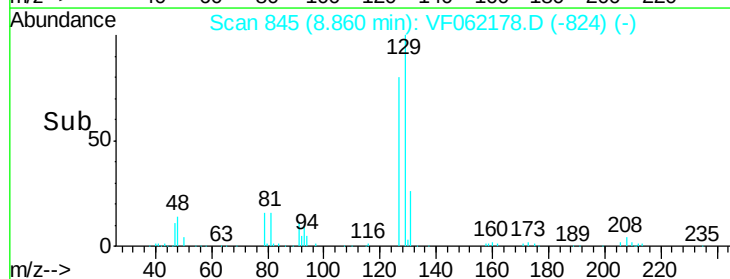
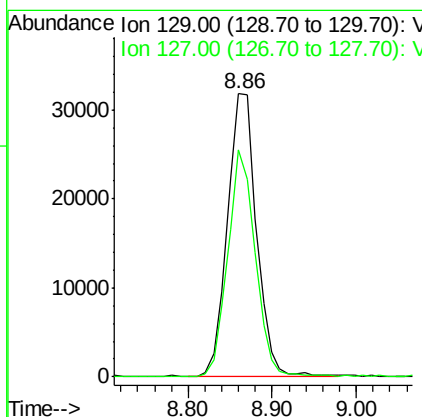
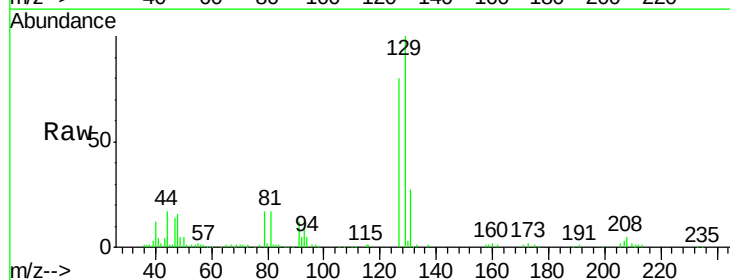
Manual Integrations
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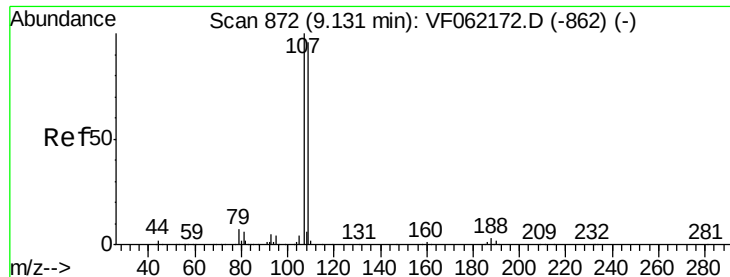
MMDadoda
4/17/2019 11:49:54 AM



#60
Dibromochloromethane
Concen: 19.020 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion: 129 Resp: 77031
Ion Ratio Lower Upper
129 100
127 80.1 37.7 113.1





#61

1,2-Dibromoethane

Concen: 19.451 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 107 Resp: 61257

Ion Ratio Lower Upper

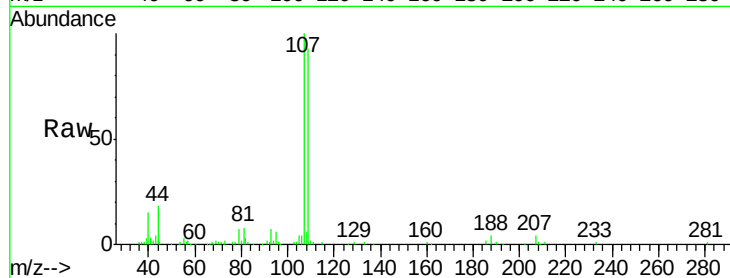
107 100

109 92.5 76.8 115.2

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.14

25000

20000

15000

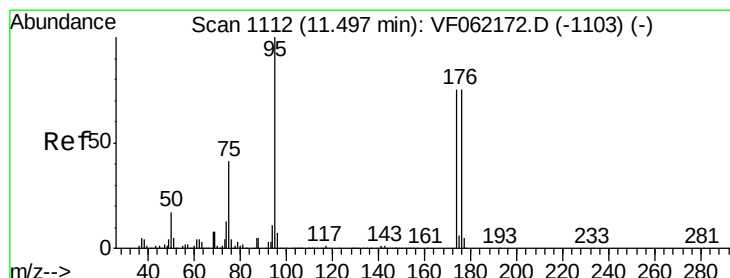
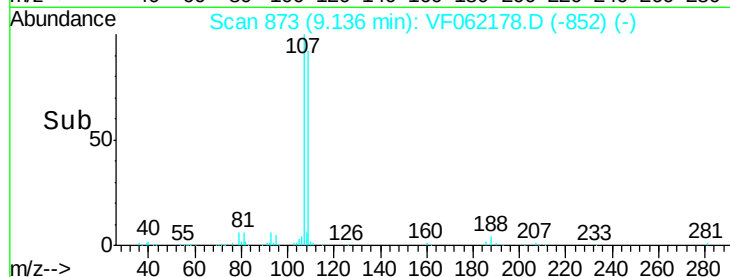
10000

5000

0

Time-->

9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 43.744 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

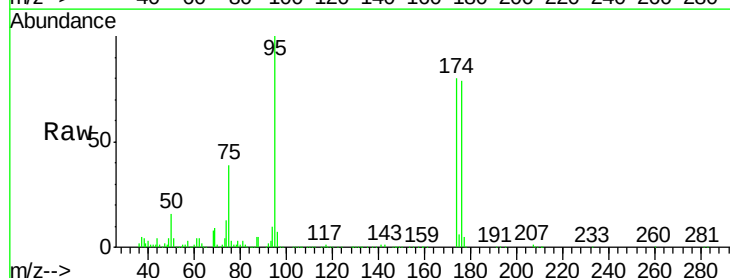
Tgt Ion: 95 Resp: 237379

Ion Ratio Lower Upper

95 100

174 79.9 0.0 150.2

176 79.5 0.0 149.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

150000

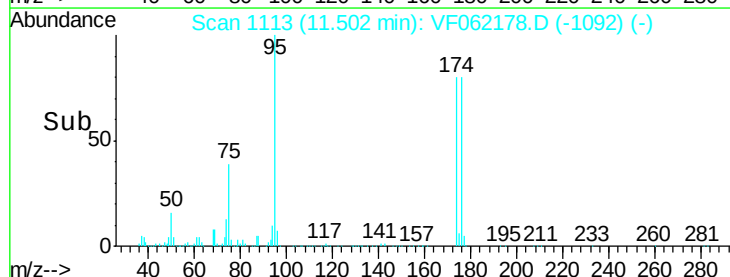
100000

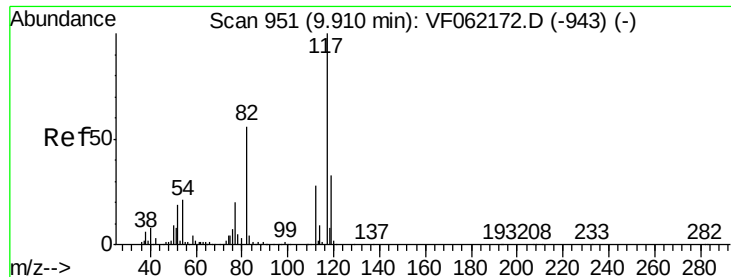
50000

0

Time-->

11.40 11.50 11.60 11.70





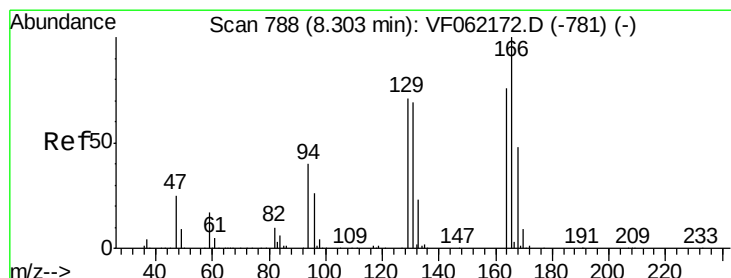
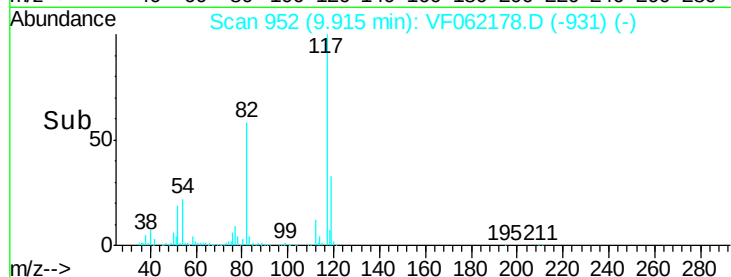
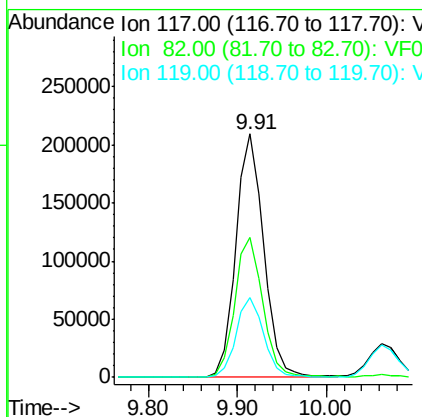
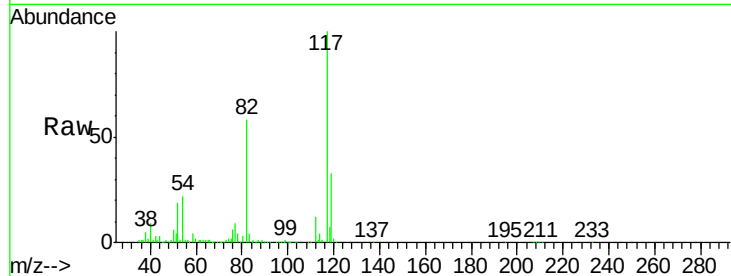
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	457573		
82	57.7		45.2	67.8
119	32.7		26.6	39.8

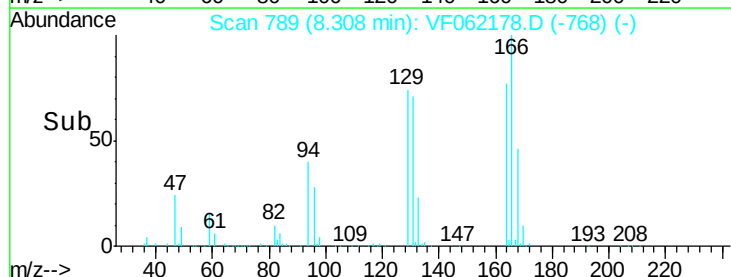
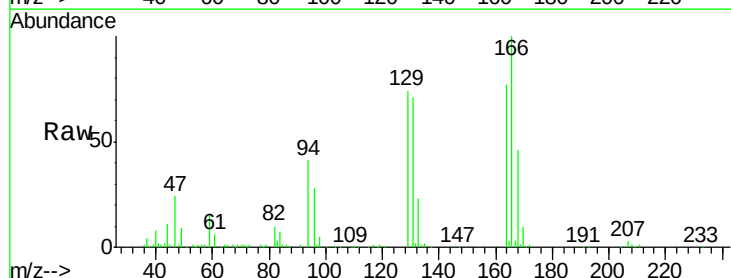
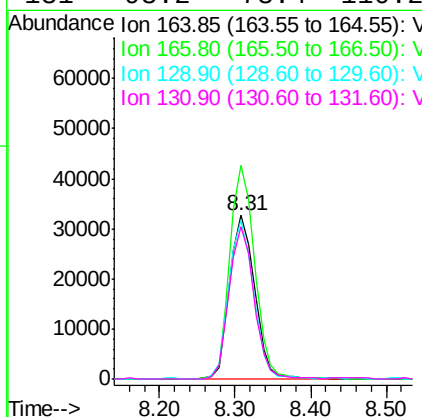
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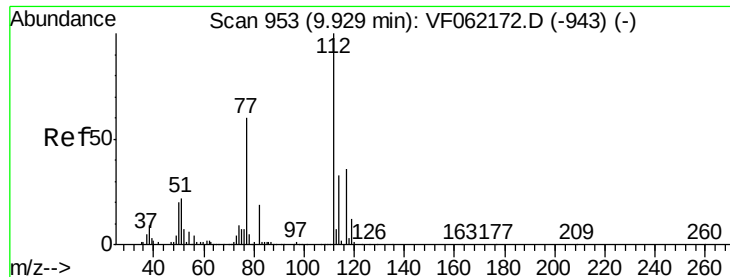
MMDadoda
4/17/2019 11:49:54 AM



#64
Tetrachloroethene
Concen: 20.153 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	75317		
166	130.6		105.9	158.9
129	97.2		75.3	112.9
131	93.2		73.4	110.2





#65

Chlorobenzene

Concen: 20.085 ug/l

RT: 9.93 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:112 Resp: 191183

Ion Ratio Lower Upper

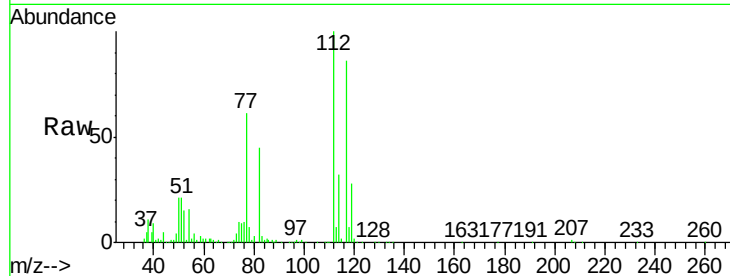
112 100

114 31.6 26.6 39.8

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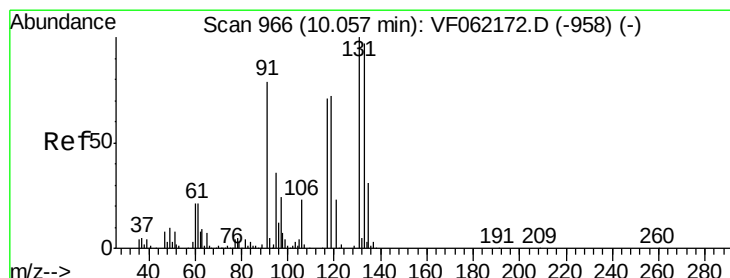
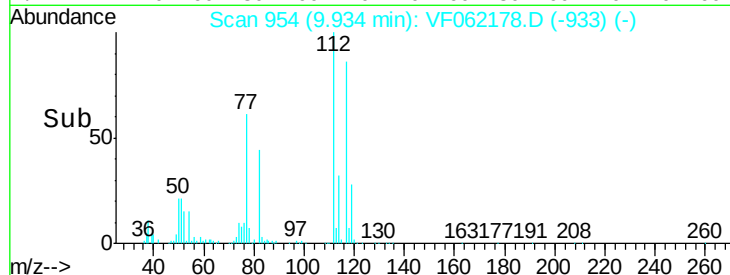
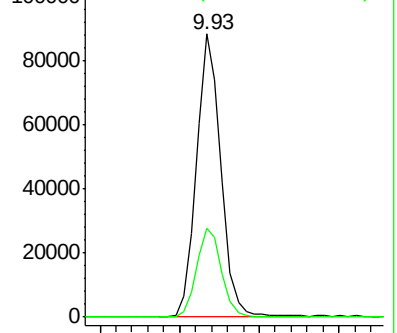
MMDadoda

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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.704 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

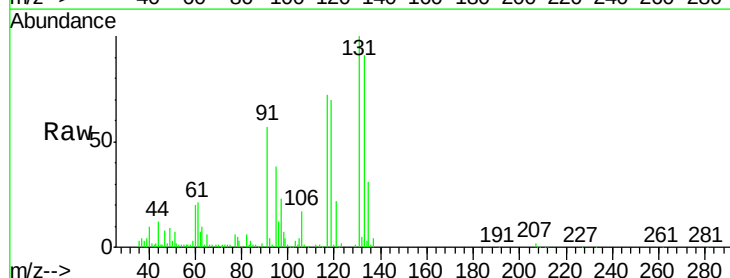
Tgt Ion:131 Resp: 89221

Ion Ratio Lower Upper

131 100

133 91.1 48.4 145.2

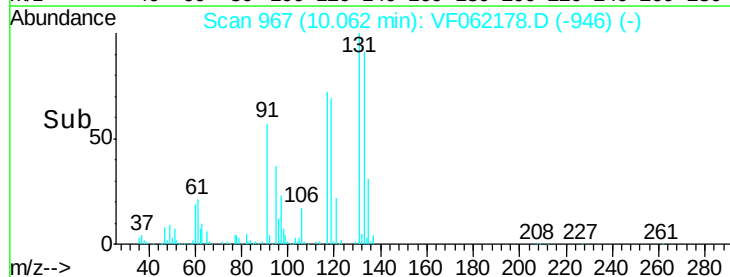
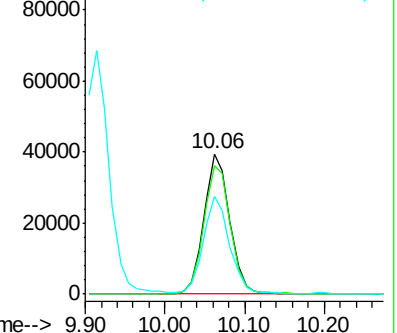
119 69.5 36.3 108.9

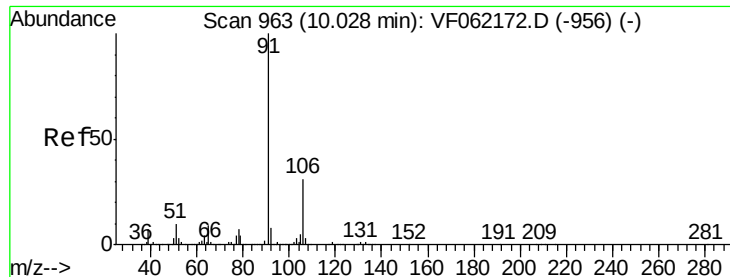


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 20.380 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 91 Resp: 359604

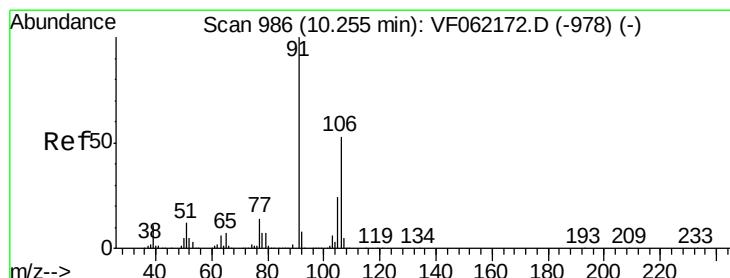
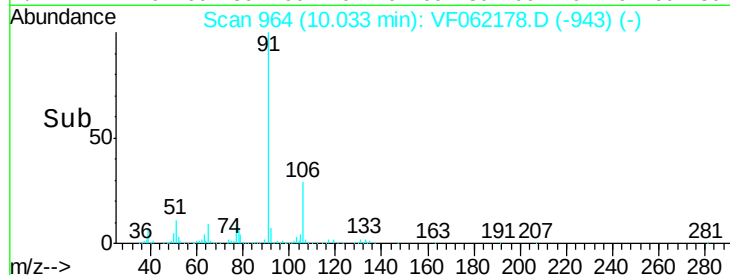
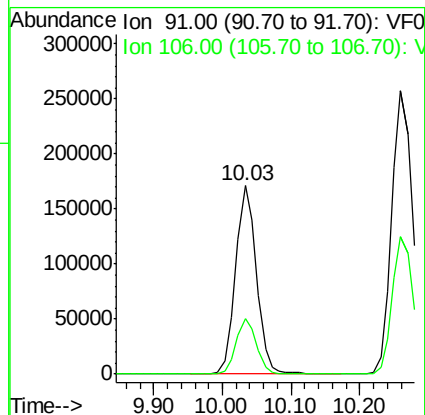
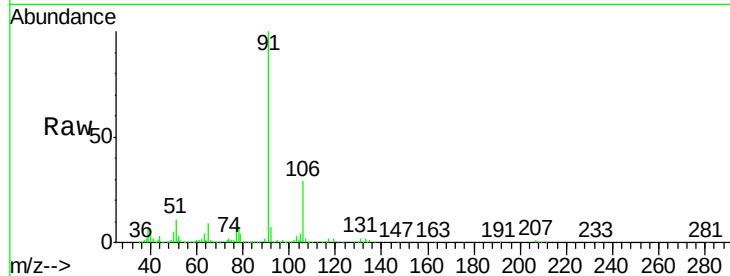
Ion Ratio Lower Upper

91 100

106 29.4 24.7 37.1

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#68

m/p-Xylenes

Concen: 40.867 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.00 min

Lab File: VF062178.D

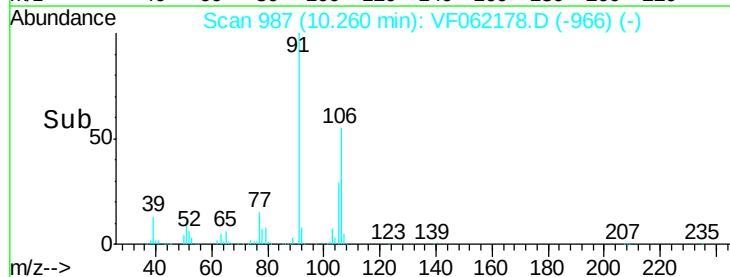
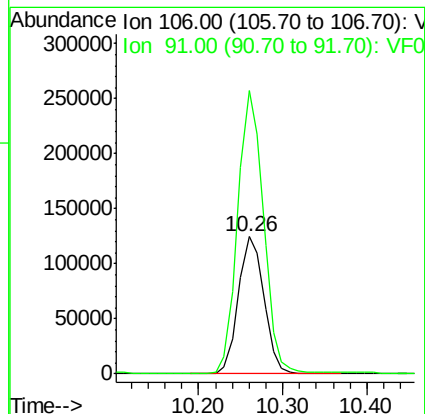
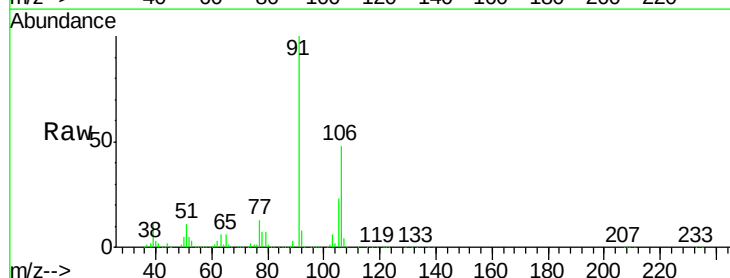
Acq: 16 Apr 2019 16:17

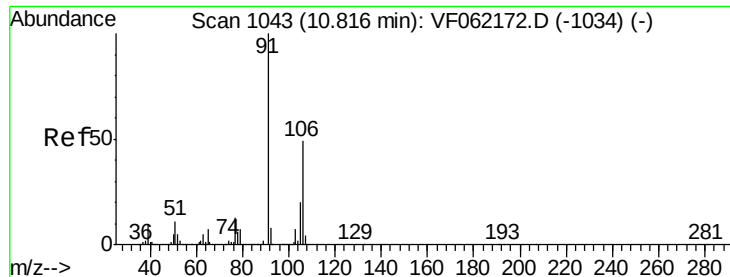
Tgt Ion: 106 Resp: 265442

Ion Ratio Lower Upper

106 100

91 206.7 151.7 227.5





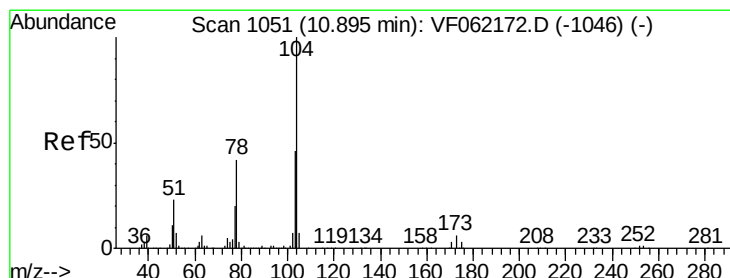
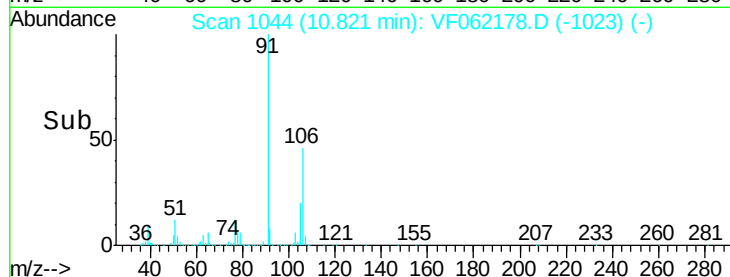
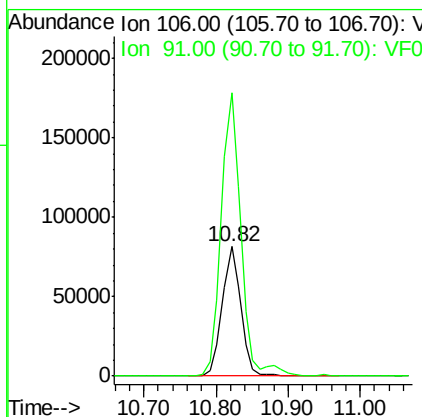
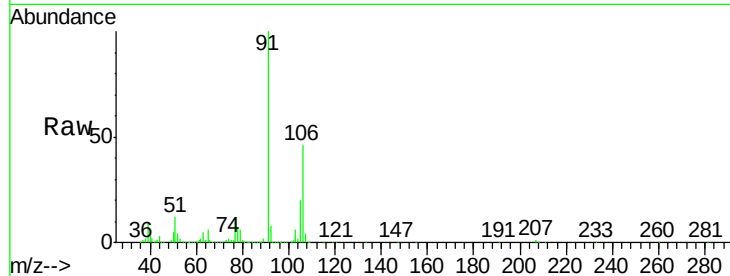
#69
o-Xylene
Concen: 20.891 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	146910		
91	91	218.2	101.9	305.7	

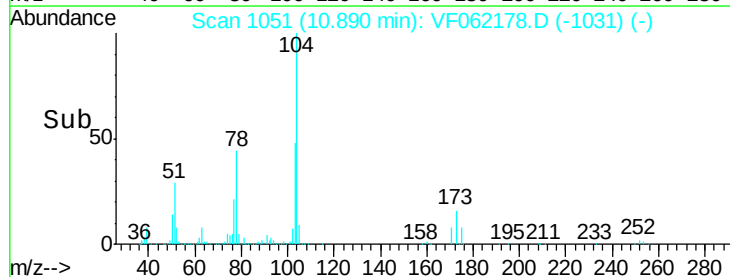
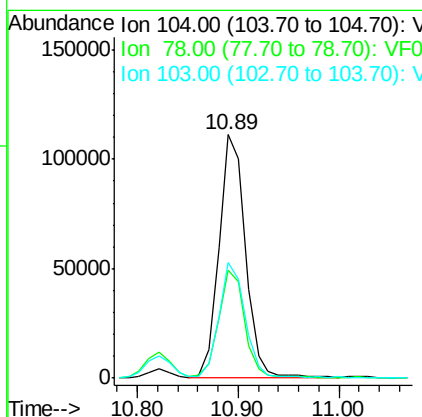
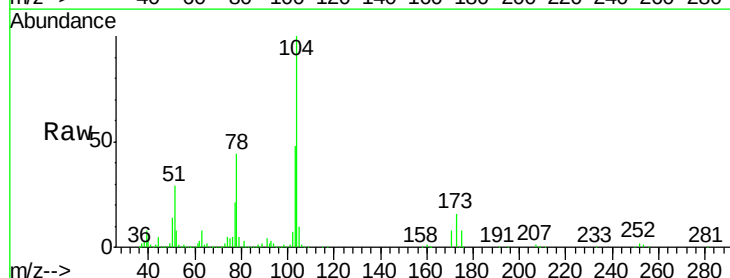
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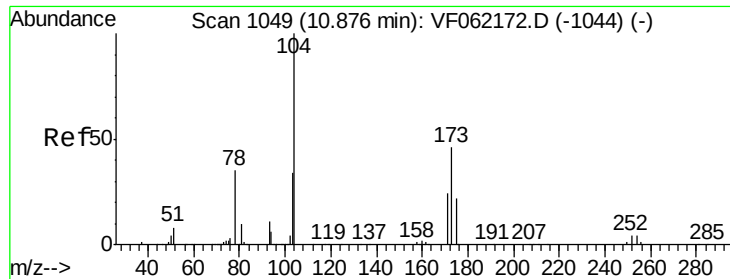
MMDadoda
4/17/2019 11:49:54 AM



#70
Styrene
Concen: 19.828 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	202786		
78	78	44.3	33.7	50.5	
103	103	47.7	37.2	55.8	





#71

Bromoform

Concen: 20.997 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

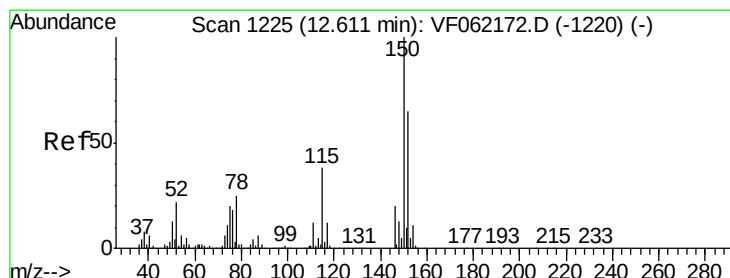
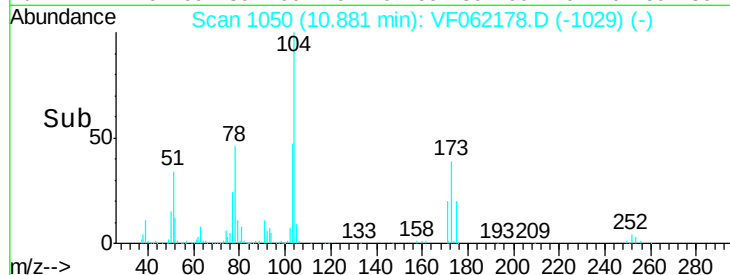
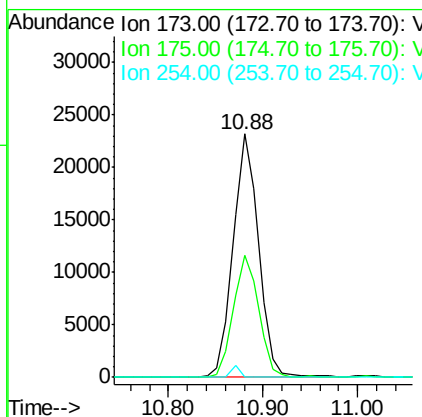
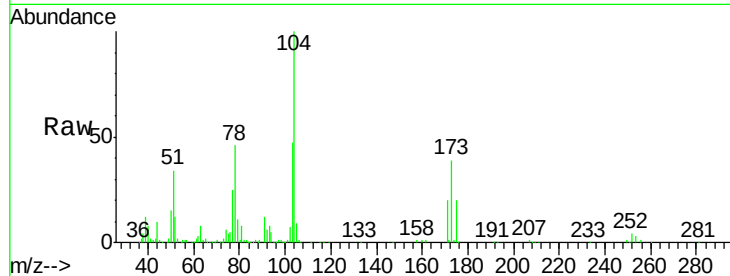
ClientSampleId :

VF0416SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.2	24.3	72.8
254	0.0	6.6	9.8#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

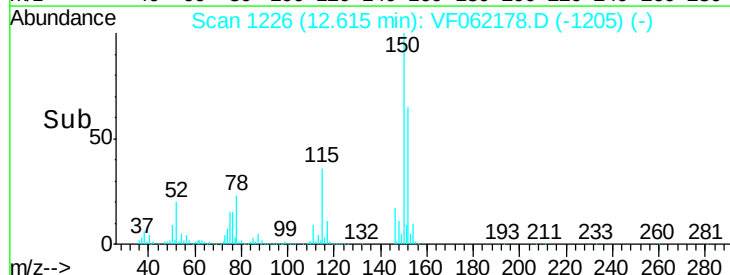
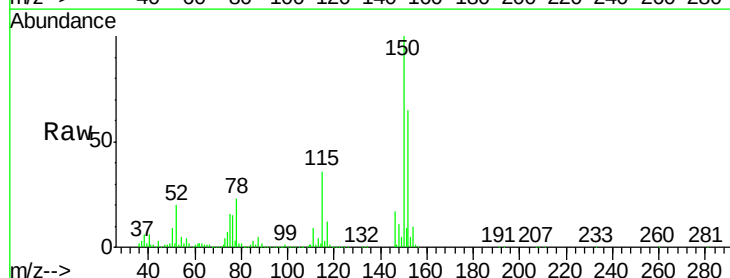
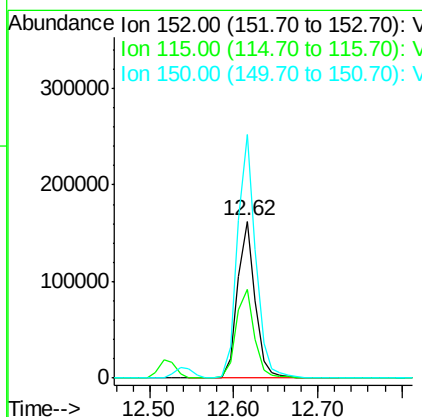
RT: 12.62 min Scan# 1226

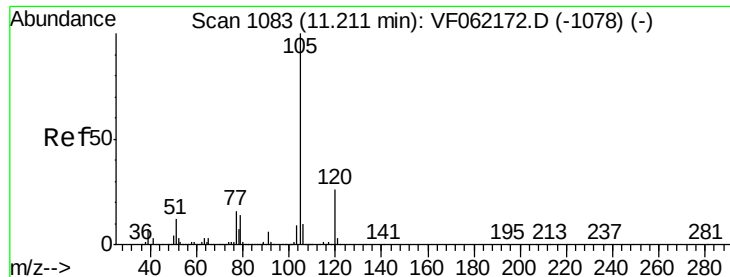
Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	29.0	87.1
150	154.9	0.0	309.2





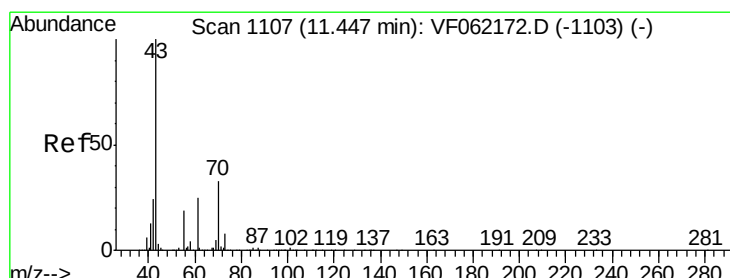
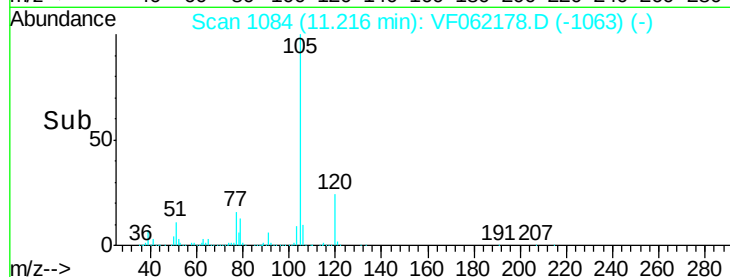
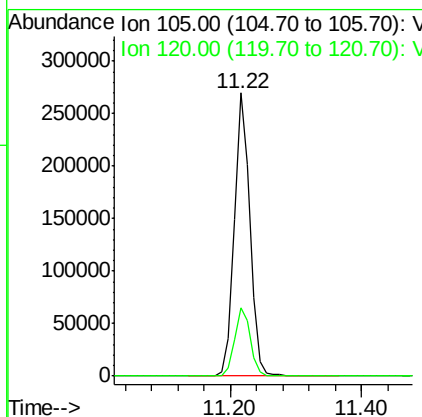
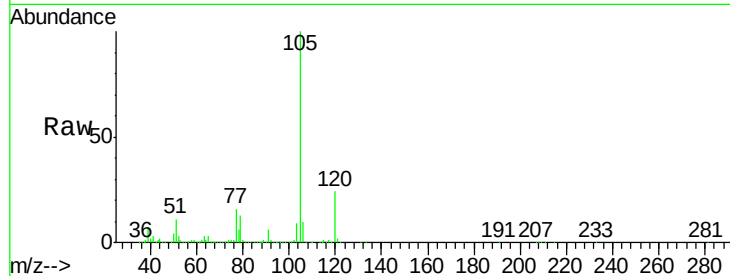
#73
Isopropylbenzene
Concen: 22.016 ug/l
RT: 11.22 min Scan# 1084
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.2	13.0	38.9

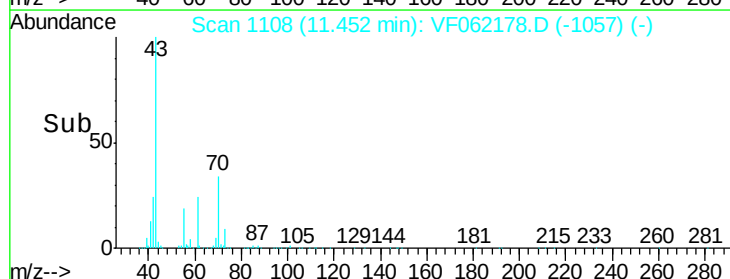
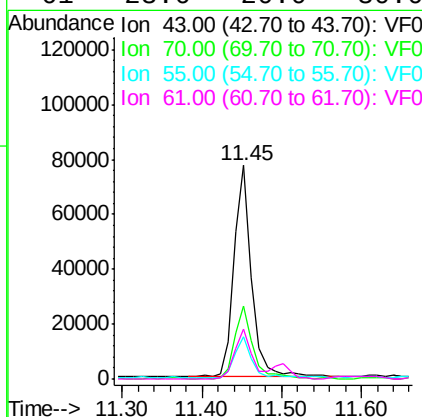
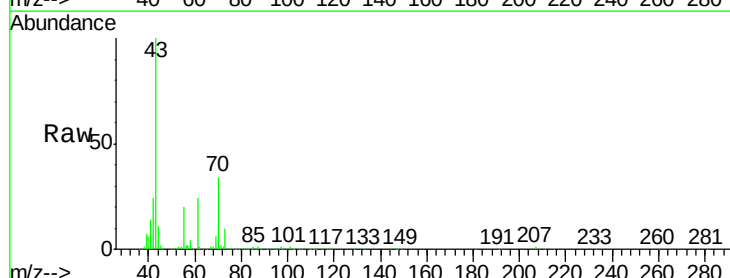
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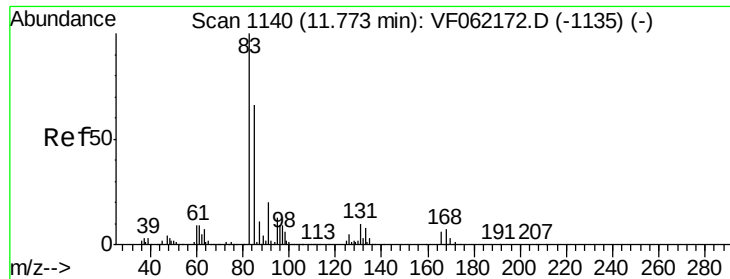
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4/17/2019 11:49:54 AM



#74
N-ethyl acetate
Concen: 23.163 ug/l
RT: 11.45 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
43	100		
70	34.1	26.6	39.8
55	19.5	15.0	22.6
61	23.6	20.0	30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.727 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

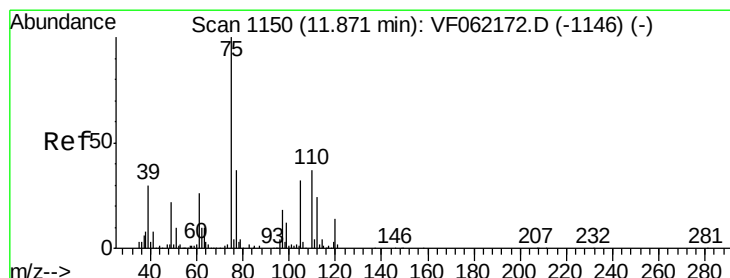
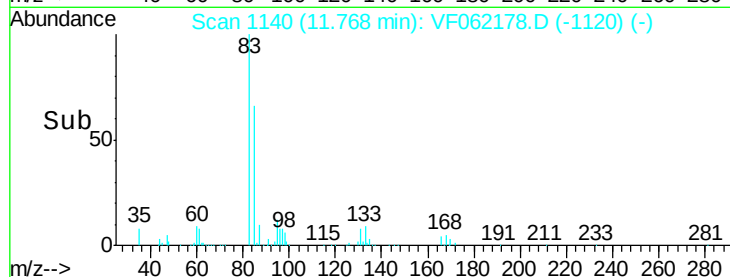
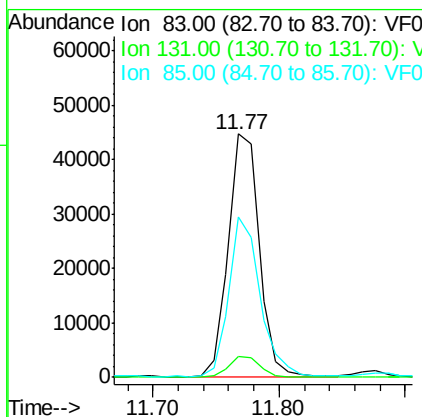
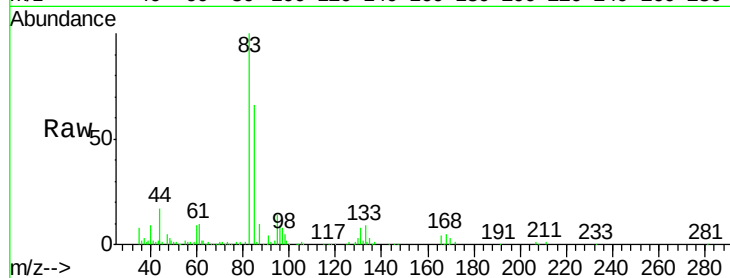
ClientSampleId :

VF0416SBS01

Tot Ion:	83	Resp:	75360
Ion	Ratio	Lower	Upper
83	100		
131	8.5	4.8	14.4
85	65.6	33.2	99.6

Manual Integrations
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4/17/2019 11:49:54 AM



#76

1,2,3-Trichloropropane

Concen: 19.742 ug/l

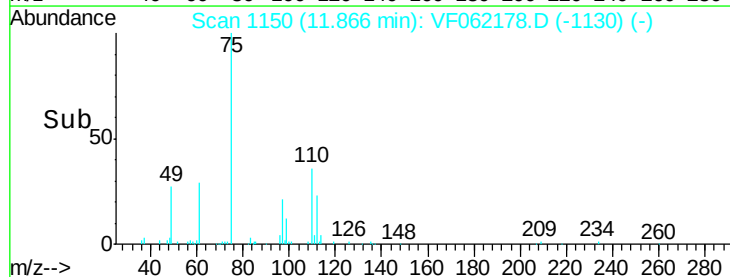
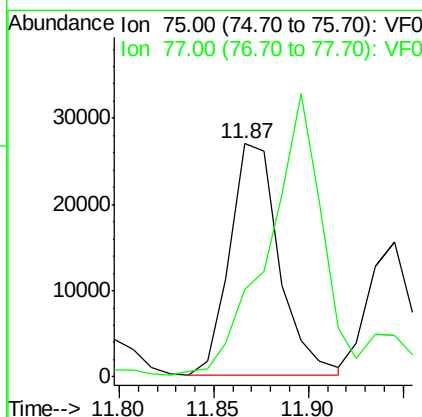
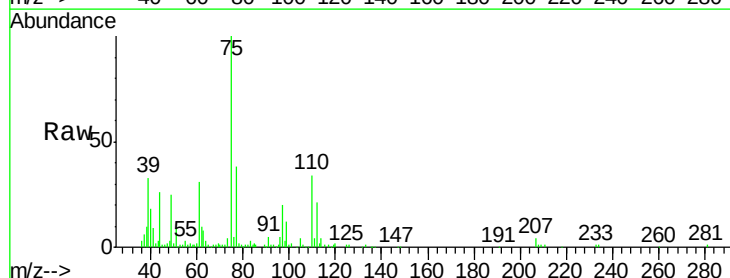
RT: 11.87 min Scan# 1150

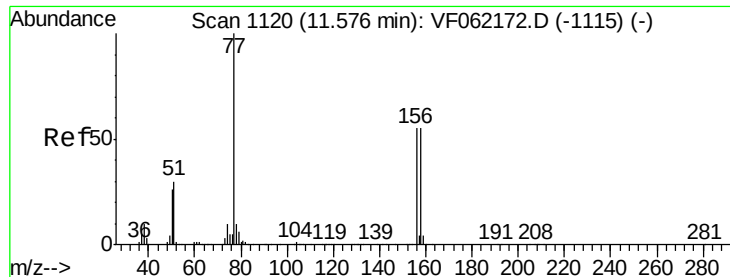
Delta R.T. -0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	75	Resp:	48678
Ion	Ratio	Lower	Upper
75	100		
77	37.6	18.7	56.1





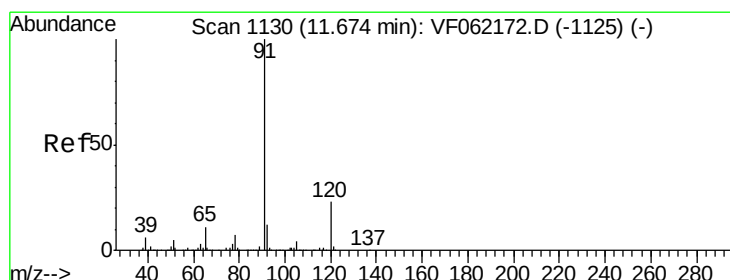
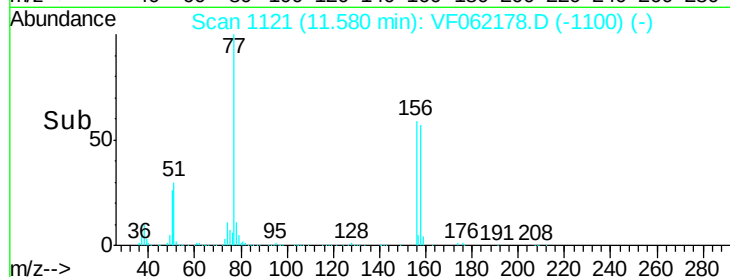
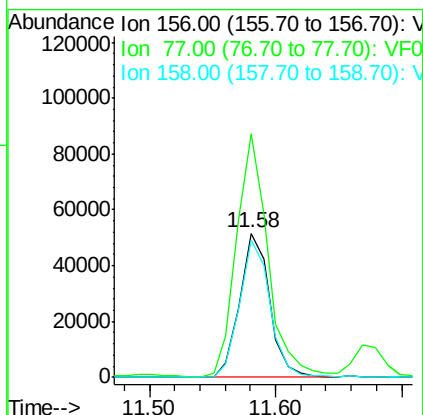
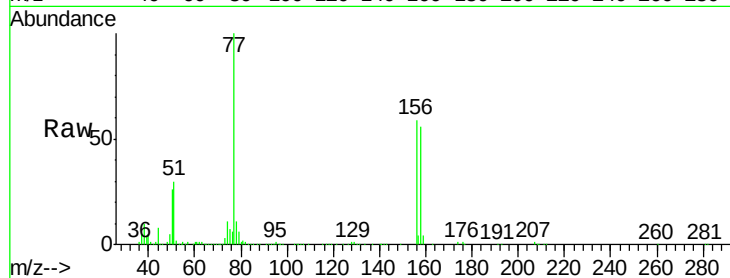
#77
Bromobenzene
Concen: 20.029 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	168.8	91.1	273.4
158	95.3	50.1	150.4

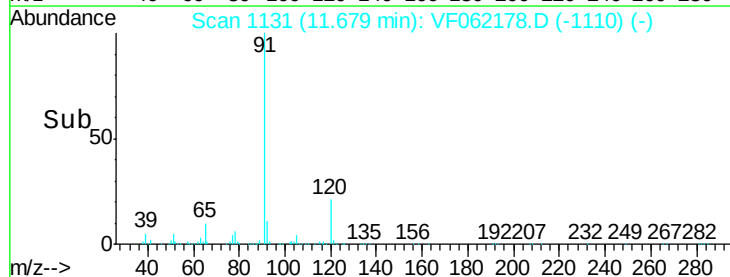
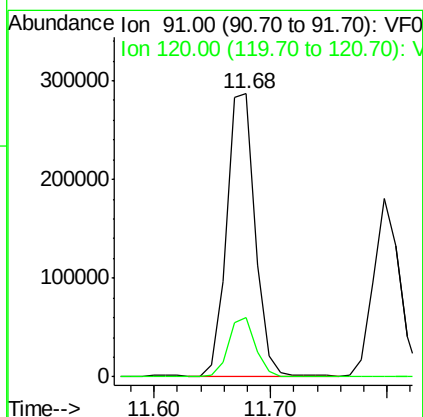
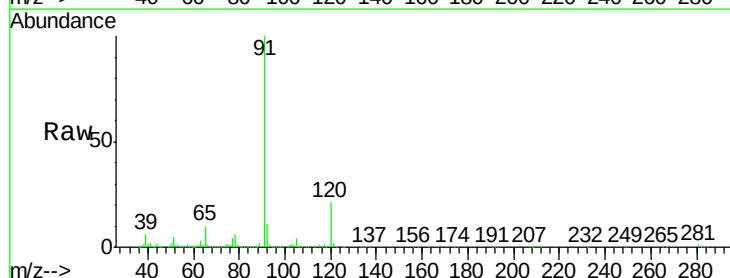
Manual Integrations
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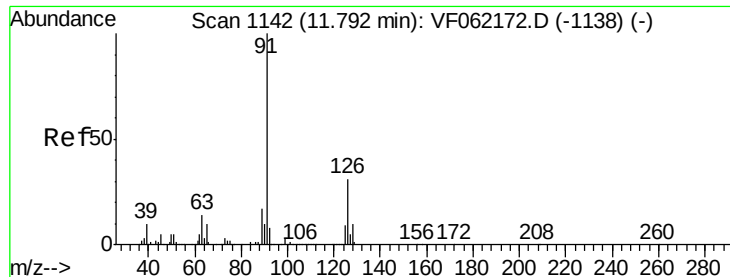
MMDadoda
4/17/2019 11:49:54 AM



#78
n-propylbenzene
Concen: 20.840 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.2	11.6	34.7





#79

2-Chlorotoluene

Concen: 20.500 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 91 Resp: 280337

Ion Ratio Lower Upper

91 100

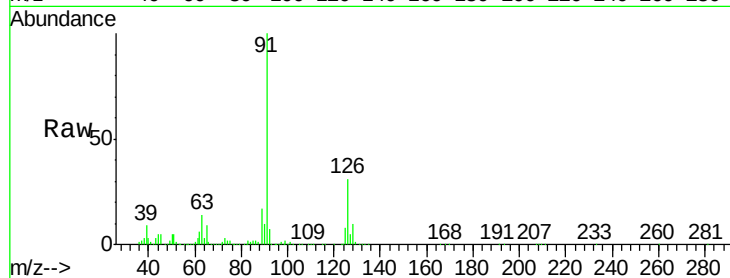
126 30.8 15.6 46.8

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.80

150000

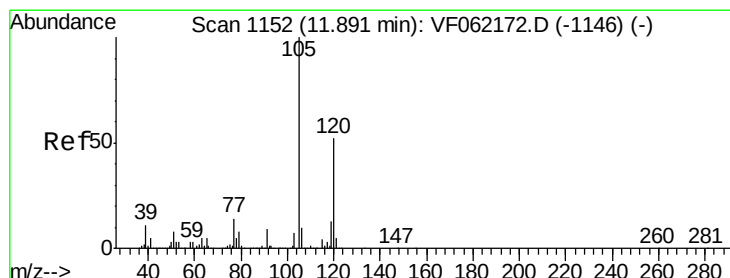
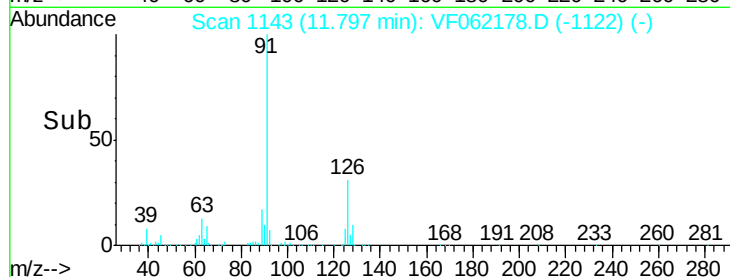
100000

50000

0

11.75 11.80 11.85

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.626 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062178.D

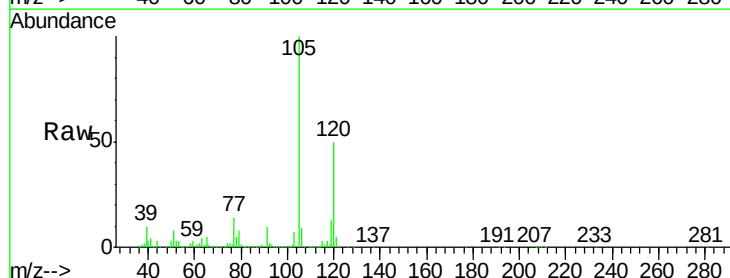
Acq: 16 Apr 2019 16:17

Tgt Ion:105 Resp: 368129

Ion Ratio Lower Upper

105 100

120 50.2 25.9 77.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.90

250000

200000

150000

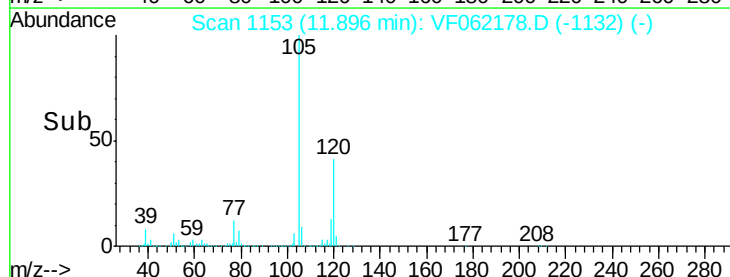
100000

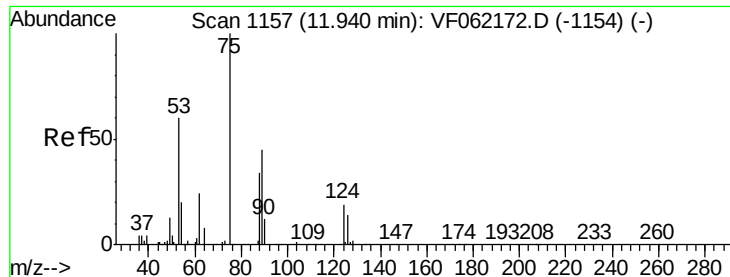
50000

0

11.80 11.90 12.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 21.557 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Instrument :

MSVOA_F

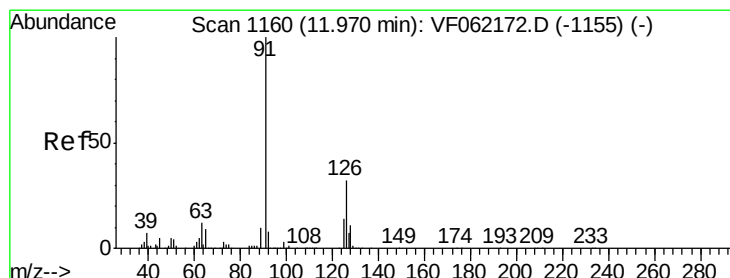
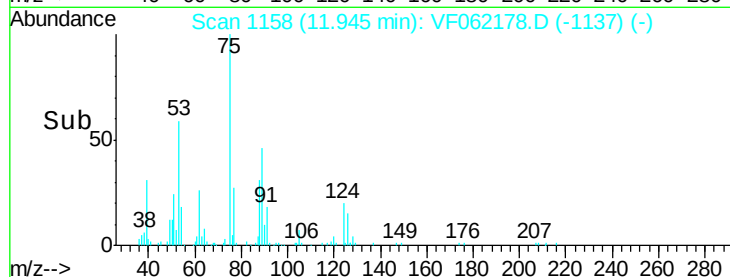
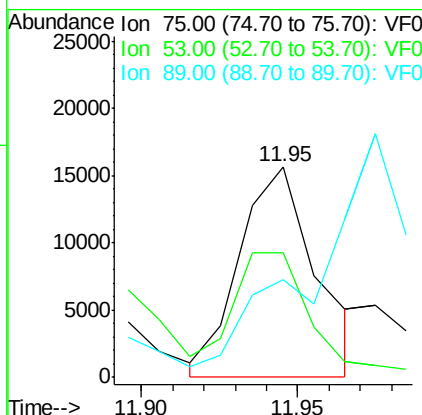
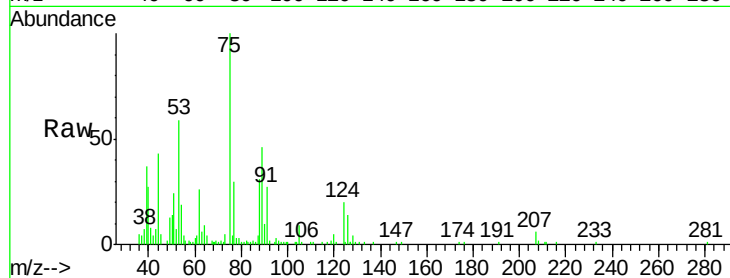
ClientSampleId :

VF0416SBS01

Tot Ion:	75	Resp:	26584
Ion Ratio	Lower	Upper	
75	100		
53	59.1	53.4	80.0
89	46.1	38.7	58.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.933 ug/l

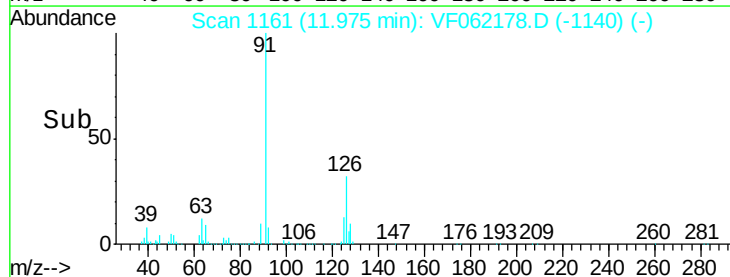
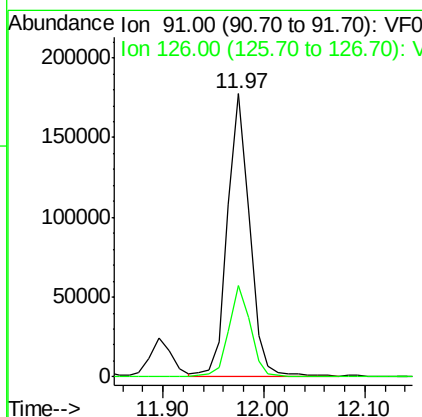
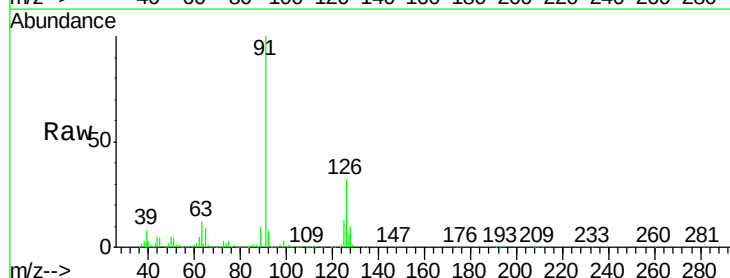
RT: 11.97 min Scan# 1161

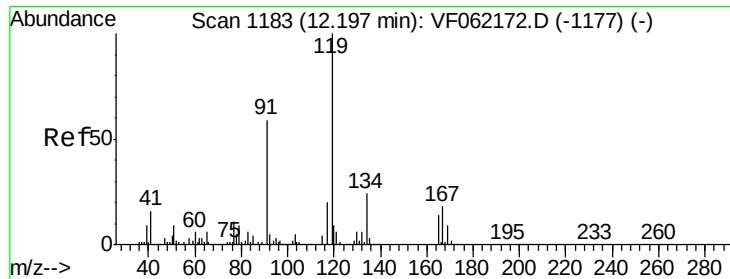
Delta R.T. 0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion:	91	Resp:	267123
Ion Ratio	Lower	Upper	
91	100		
126	32.2	15.9	47.7





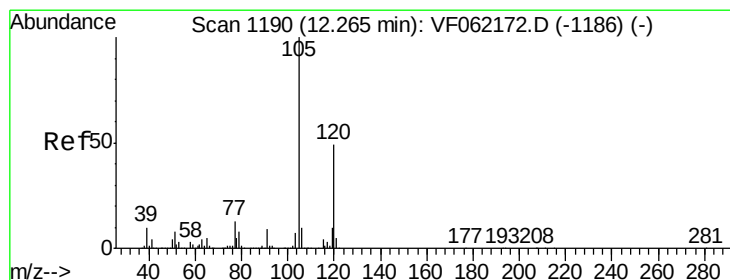
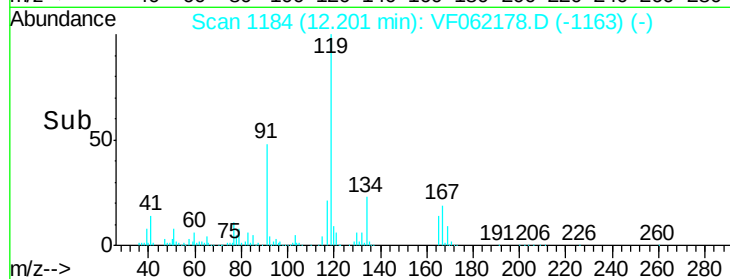
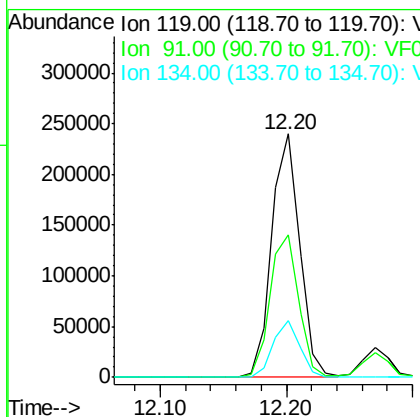
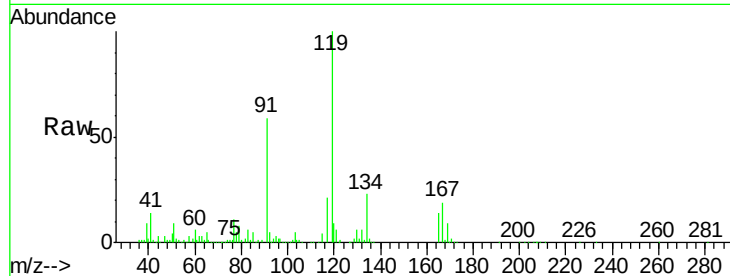
#83
 tert-Butylbenzene
 Concen: 21.939 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	370836		
91	58.7	29.5	88.5	
134	23.2	12.0	36.1	

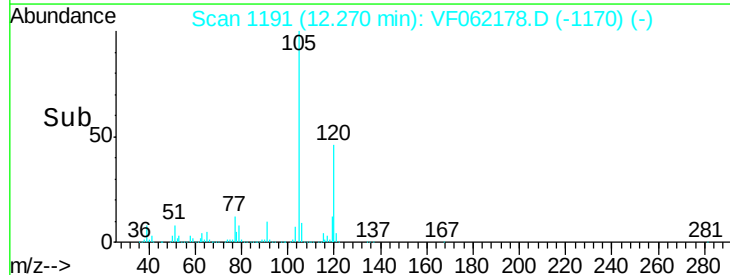
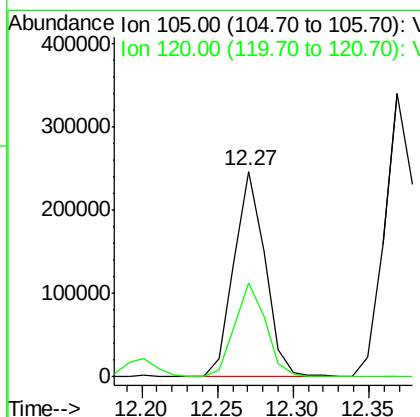
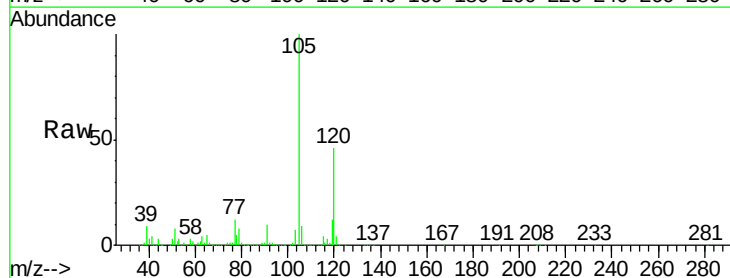
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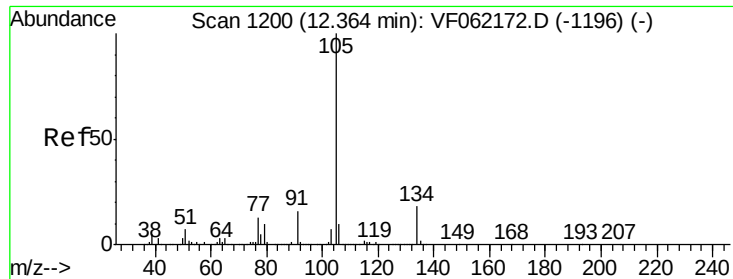
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.315 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	352123		
120	45.6	24.7	74.1	





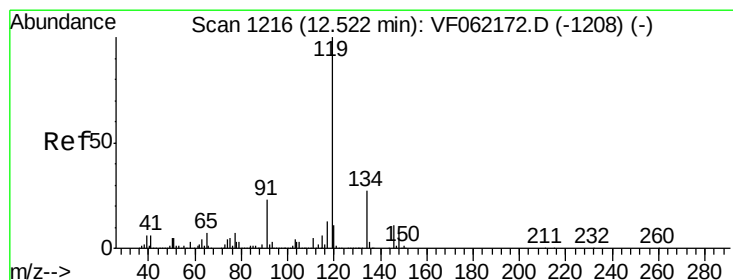
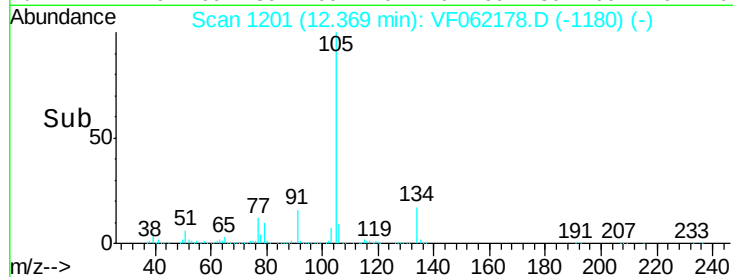
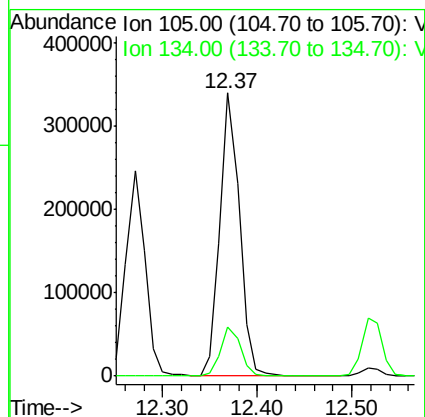
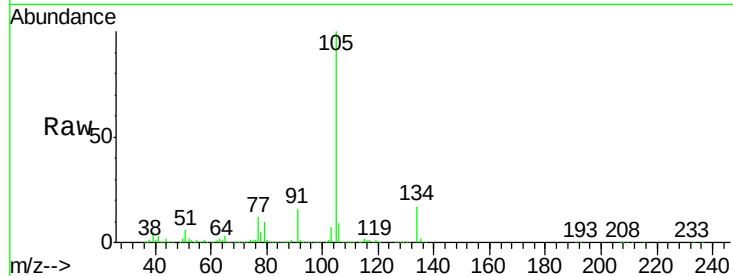
#85
 sec-Butylbenzene
 Concen: 22.008 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	489151		
134	17.3	9.0	27.0	

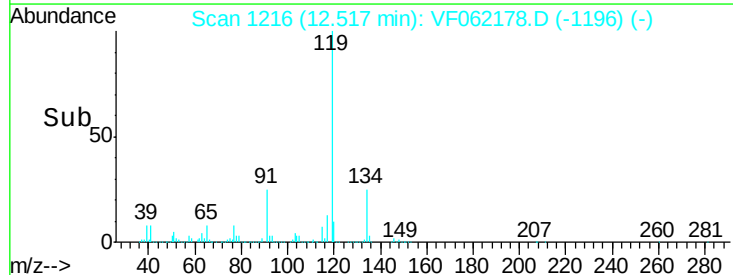
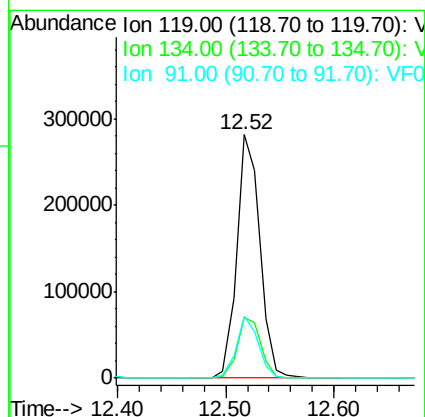
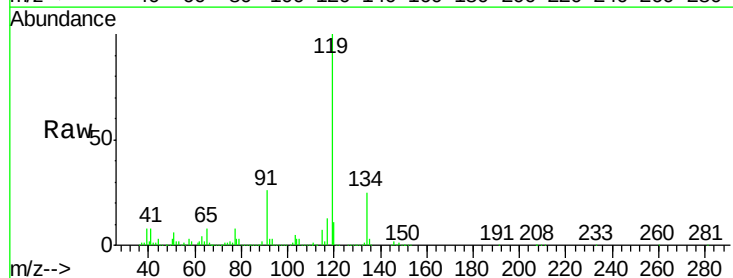
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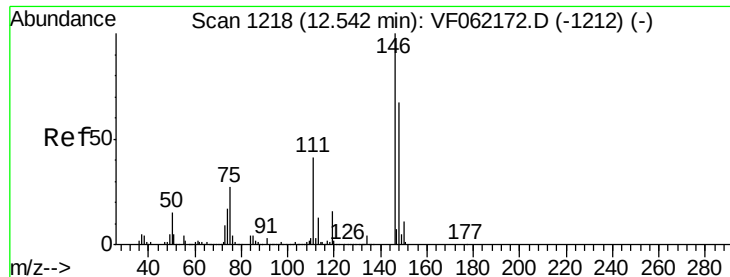
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#86
 p-Isopropyltoluene
 Concen: 22.144 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	419292		
134	24.8	13.5	40.5	
91	25.6	11.5	34.5	





#87

1,3-Dichlorobenzene

Concen: 21.057 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF062178.D

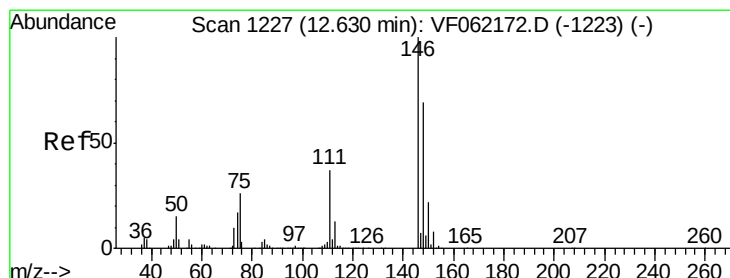
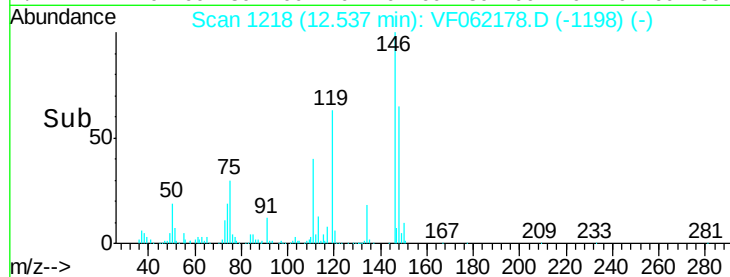
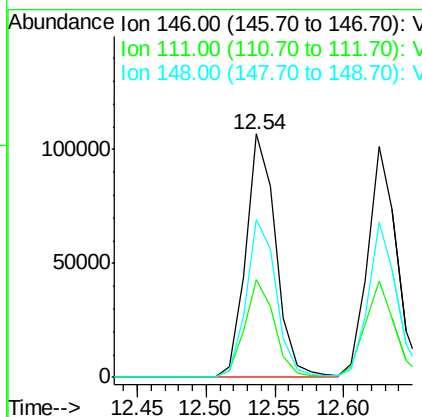
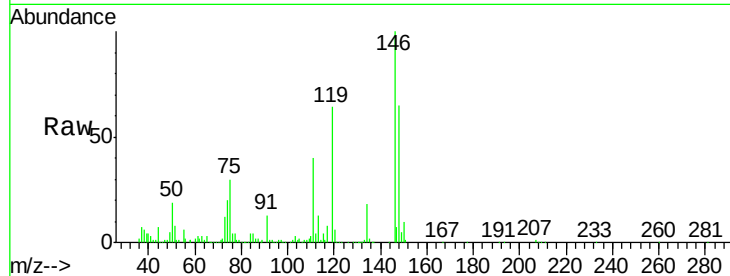
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.5	61.6
148	64.9	33.6	100.8

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#88

1,4-Dichlorobenzene

Concen: 19.892 ug/l

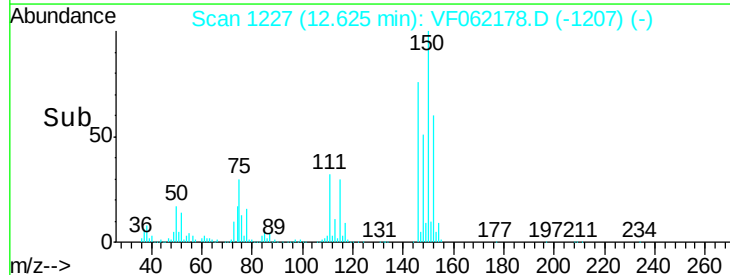
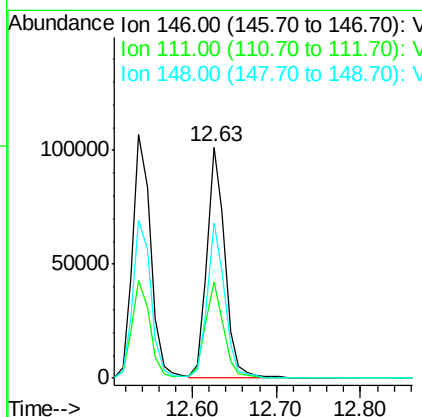
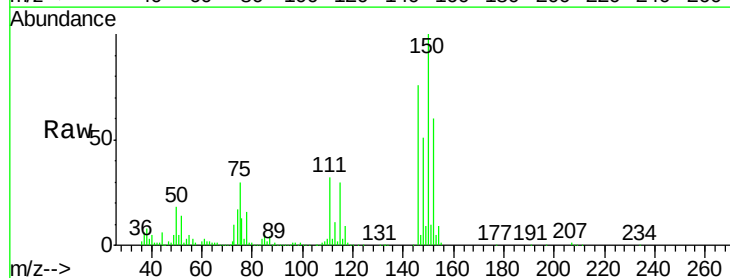
RT: 12.63 min Scan# 1227

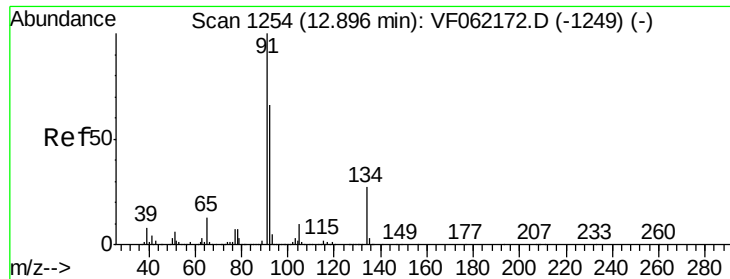
Delta R.T. -0.00 min

Lab File: VF062178.D

Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	18.6	55.6
148	67.4	34.3	102.8





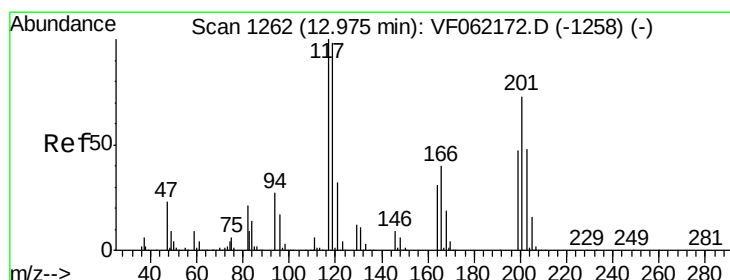
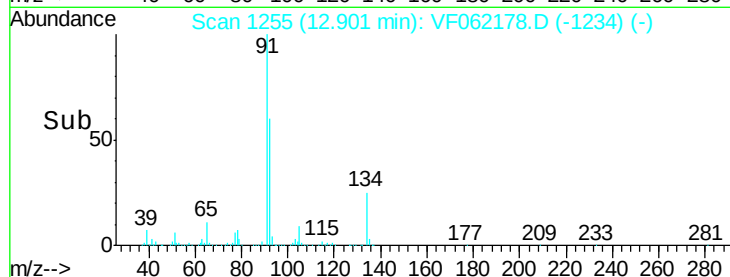
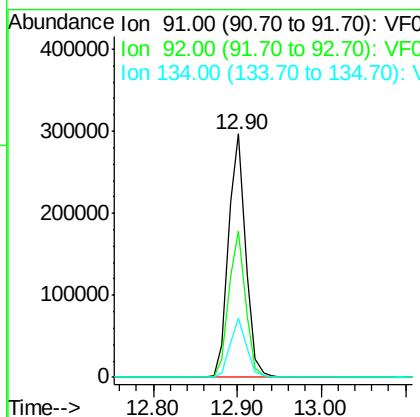
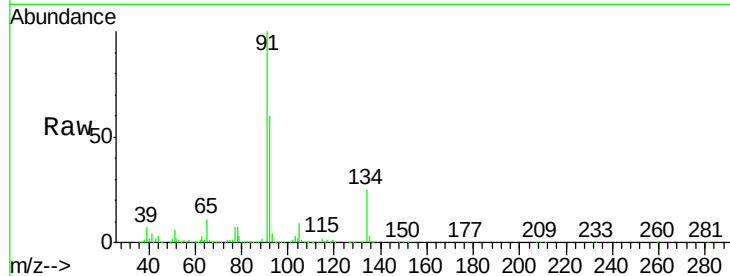
#89
n-Butylbenzene
Concen: 20.811 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.2	32.9	98.6
134	24.5	13.4	40.2

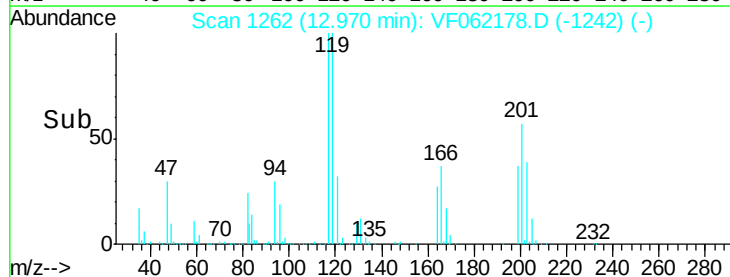
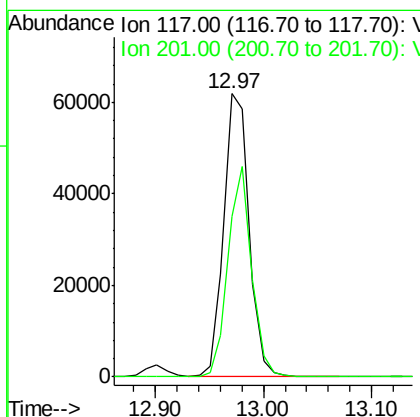
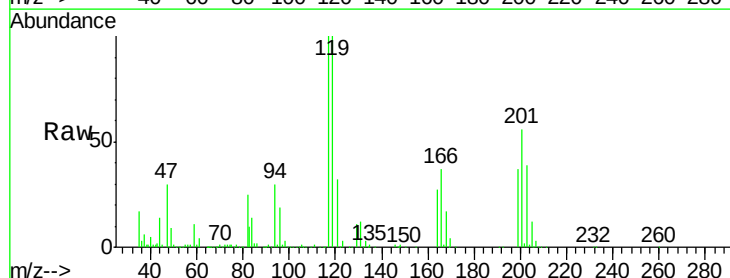
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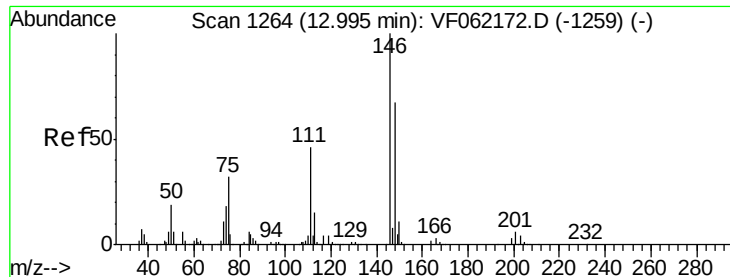
MMDadoda
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#90
Hexachloroethane
Concen: 21.862 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	56.5	36.7	110.1





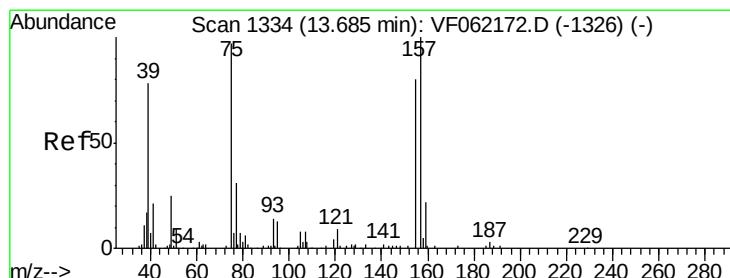
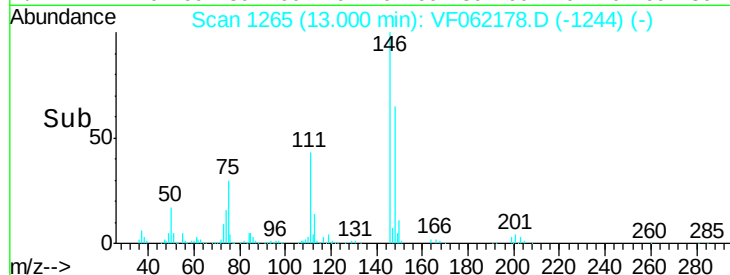
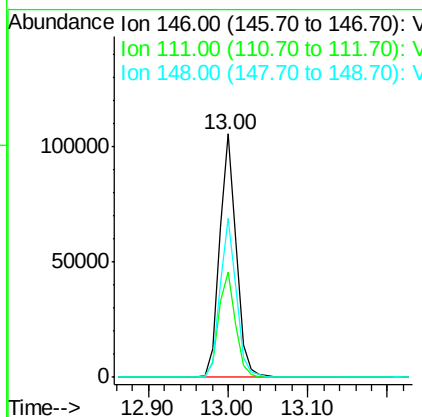
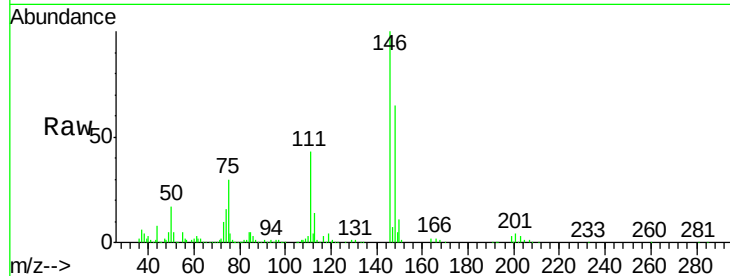
#91
 1,2-Dichlorobenzene
 Concen: 20.965 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.9	68.8
148	65.3	33.6	100.6

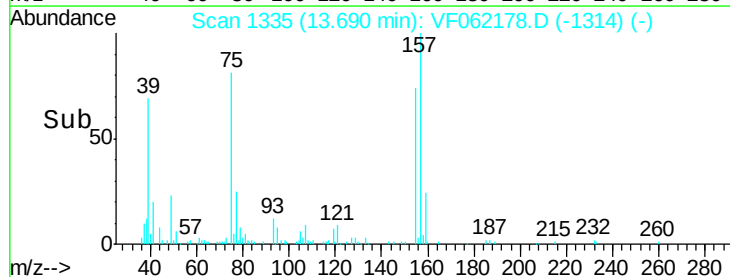
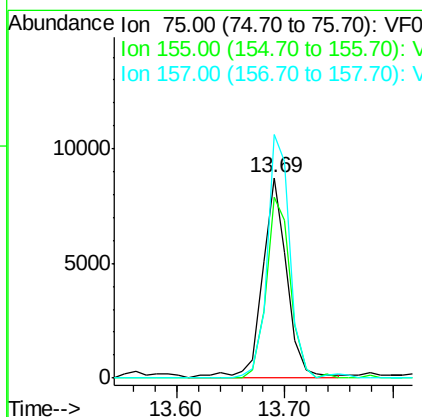
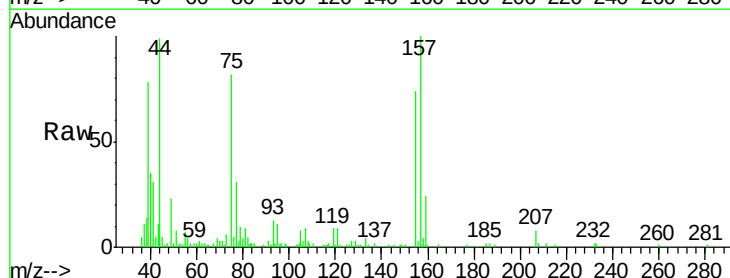
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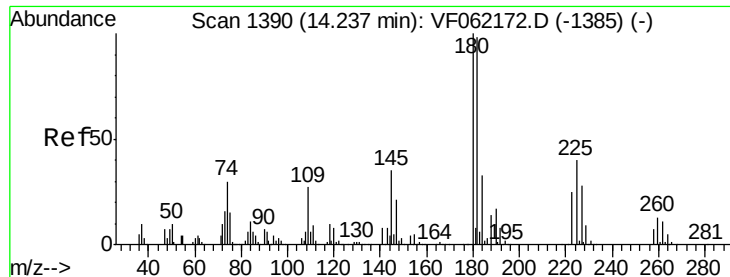
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 4/17/2019 11:49:54 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.210 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.9	41.0	123.0
157	121.3	51.3	154.0





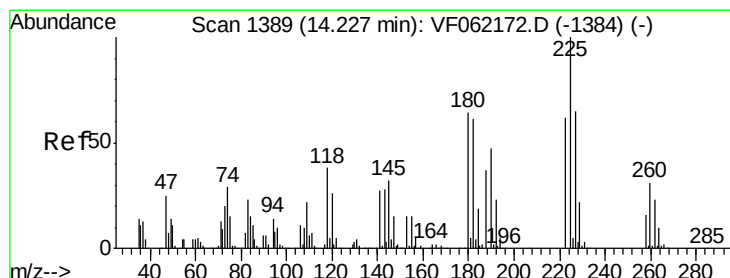
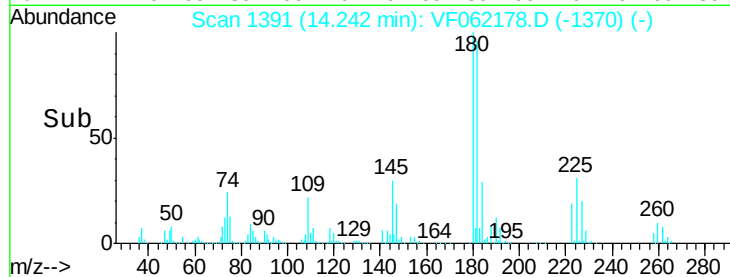
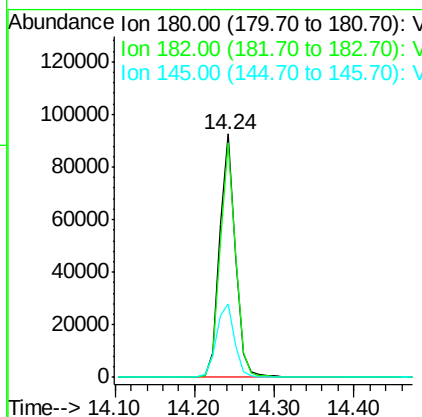
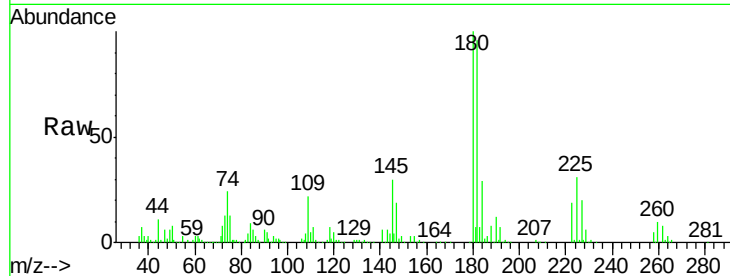
#93
 1,2,4-Trichlorobenzene
 Concen: 23.445 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	131226		
182	96.5	48.8	146.4	
145	30.2	17.3	52.0	

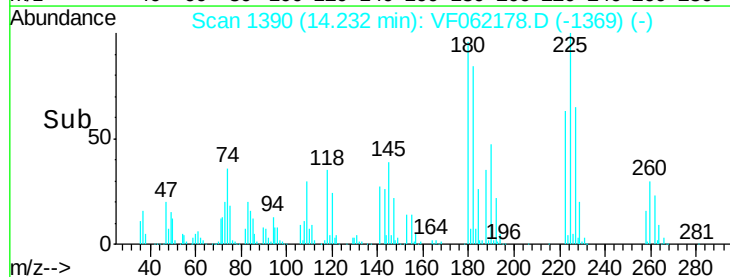
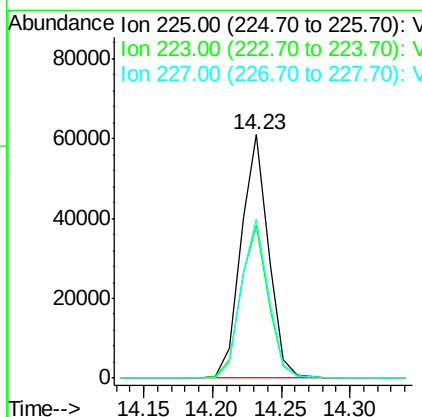
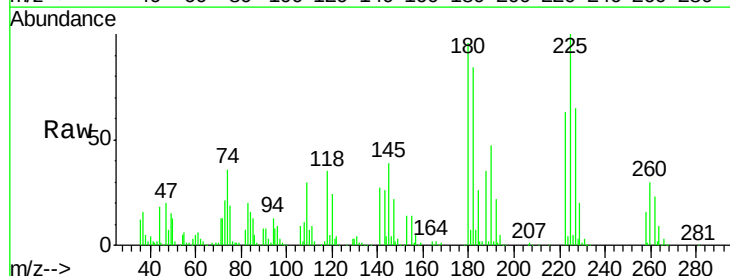
Manual Integrations
 APPROVED

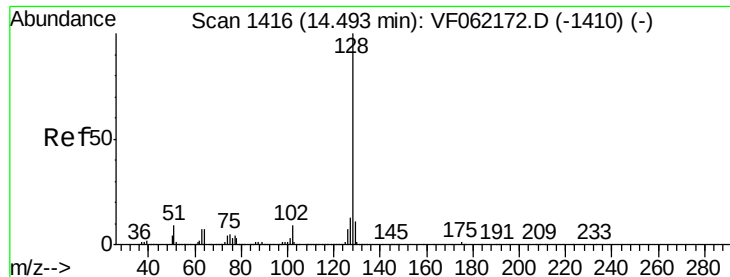
MMDadoda
 4/17/2019 11:49:54 AM



#94
 Hexachlorobutadiene
 Concen: 23.271 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062178.D
 Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	84887		
223	62.9	30.9	92.7	
227	65.2	32.3	96.9	





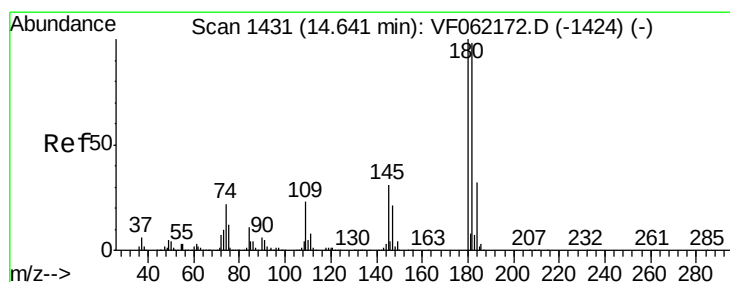
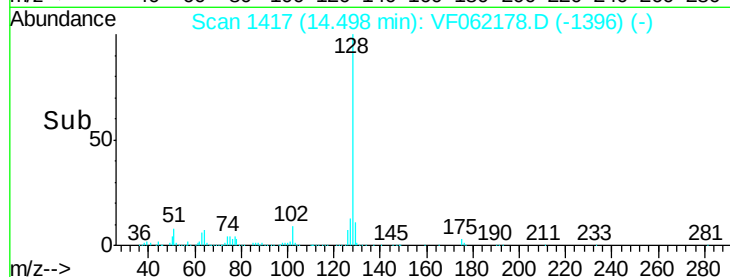
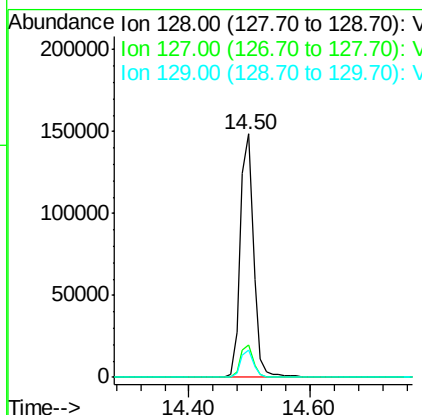
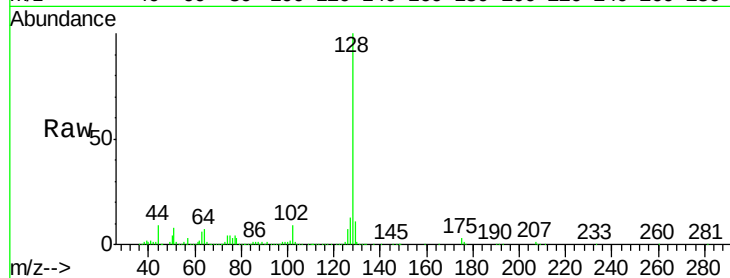
#95
Naphthalene
Concen: 23.286 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	227711		
127	13.5	10.3	15.5	
129	11.1	9.2	13.8	

Manual Integrations
APPROVED

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4/17/2019 11:49:54 AM



#96
1,2,3-Trichlorobenzene
Concen: 23.225 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VF062178.D
Acq: 16 Apr 2019 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	121115		
182	92.8	49.0	147.2	
145	34.0	15.4	46.2	

