

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\
 Data File : VF061693.D
 Acq On : 21 Feb 2019 12:33
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 2/22/2019 12:27:33 PM

Quant Time: Feb 22 03:33:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	354430	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	495937	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	423454	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	232728	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	130305	50.13	ug/l	-0.01
Spiked Amount 50.000			Recovery =	100.26%		
35) Dibromofluoromethane	4.11	113	195181	53.00	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.00%		
50) Toluene-d8	7.56	98	582055	54.98	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.96%		
62) 4-Bromofluorobenzene	11.41	95	221801	51.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.56%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	183371	45.052	ug/l	98
3) Chloromethane	1.10	50	188641	44.172	ug/l	97
4) Vinyl Chloride	1.14	62	186150	46.888	ug/l	98
5) Bromomethane	1.34	94	131386	48.085	ug/l	98
6) Chloroethane	1.39	64	91124	46.575	ug/l	92
7) Trichlorofluoromethane	1.48	101	227349	47.479	ug/l	98
8) Diethyl Ether	1.63	74	50494	41.844	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	160255	46.392	ug/l	95
10) Methyl Iodide	1.91	142	305626m	46.317	ug/l	
11) Tert butyl alcohol	2.58	59	32860	218.457	ug/l	98
12) 1,1-Dichloroethene	1.80	96	148987	49.055	ug/l	97
13) Acrolein	2.00	56	45340	239.831	ug/l	98
14) Allyl chloride	2.09	41	174585	46.845	ug/l	97
15) Acrylonitrile	2.94	53	109863	205.913	ug/l	94
16) Acetone	2.24	43	136031	243.937	ug/l	95
17) Carbon Disulfide	1.83	76	443759m	46.483	ug/l	
18) Methyl Acetate	2.35	43	53967	42.959	ug/l	100
19) Methyl tert-butyl Ether	2.44	73	243336	46.881	ug/l	99
20) Methylene Chloride	2.18	84	146555m	48.994	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	145158	43.966	ug/l	97
22) Diisopropyl ether	2.80	45	415245	46.416	ug/l	100
23) Vinyl Acetate	3.19	43	944920	216.253	ug/l	99
24) 1,1-Dichloroethane	2.87	63	254231	46.959	ug/l	99
25) 2-Butanone	4.34	43	275632	226.284	ug/l	96
26) 2,2-Dichloropropane	3.60	77	126591	55.203	ug/l	98
27) cis-1,2-Dichloroethene	3.48	96	194111	44.792	ug/l	97
28) Bromochloromethane	3.72	49	120837	46.518	ug/l	100
29) Tetrahydrofuran	4.07	42	112777	203.706	ug/l	97
30) Chloroform	3.86	83	282383	45.865	ug/l	93
31) Cyclohexane	3.69	56	273339	46.639	ug/l	93
32) 1,1,1-Trichloroethane	4.10	97	206717	51.255	ug/l	99
36) 1,1-Dichloropropene	4.28	75	248507	50.583	ug/l	95
37) Ethyl Acetate	4.11	43	98883	43.334	ug/l #	82
38) Carbon Tetrachloride	3.99	117	174163	51.339	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	305118	52.514	ug/l	97
40) Benzene	4.64	78	644915	50.186	ug/l	100
41) Methacrylonitrile	4.75	41	51177	43.855	ug/l	98
42) 1,2-Dichloroethane	4.94	62	154455	50.248	ug/l	96
43) Isopropyl Acetate	6.96	43	119892	44.387	ug/l #	95
44) Trichloroethene	5.50	130	194148	46.720	ug/l	98
45) 1,2-Dichloropropane	6.23	63	156344	50.333	ug/l	92
46) Dibromomethane	6.09	93	92016	48.113	ug/l	96
47) Bromodichloromethane	6.38	83	205502	49.068	ug/l	99
48) Methyl methacrylate	6.72	41	76824	47.263	ug/l	93
49) 1,4-Dioxane	6.71	88	13393	876.492	ug/l	95
51) 4-Methyl-2-Pentanone	8.26	43	412092	213.520	ug/l	100
52) Toluene	7.62	92	367544	47.160	ug/l	98
53) t-1,3-Dichloropropene	8.29	75	176325	50.586	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	240655	51.834	ug/l	94
55) 1,1,2-Trichloroethane	8.49	97	109261	47.716	ug/l	94
56) Ethyl methacrylate	8.62	69	120285	47.182	ug/l	99
57) 1,3-Dichloropropane	8.86	76	187289	49.003	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	95206	216.445	ug/l	100
59) 2-Hexanone	9.50	43	301547	222.894	ug/l	99
60) Dibromochloromethane	8.72	129	157944	49.557	ug/l	99
61) 1,2-Dibromoethane	8.99	107	114540	46.118	ug/l	99
64) Tetrachloroethene	8.16	164	184248	53.232	ug/l	99
65) Chlorobenzene	9.80	112	431246	50.187	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	171853	51.039	ug/l	95
67) Ethyl Benzene	9.90	91	745306	52.156	ug/l	97
68) m/p-Xylenes	10.13	106	570331	104.286	ug/l	96
69) o-Xylene	10.71	106	303537	52.015	ug/l	98
70) Styrene	10.79	104	409297	49.579	ug/l	98
71) Bromoform	10.77	173	85186	46.590	ug/l	98
73) Isopropylbenzene	11.12	105	812135	49.013	ug/l	99
74) N-amyl acetate	11.37	43	183076	46.032	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.70	83	131221	44.204	ug/l	97
76) 1,2,3-Trichloropropane	11.80	75	87232	43.221	ug/l	98
77) Bromobenzene	11.50	156	201981	49.342	ug/l	97
78) n-propylbenzene	11.60	91	944111	49.653	ug/l	97
79) 2-Chlorotoluene	11.72	91	537844	50.507	ug/l	94
80) 1,3,5-Trimethylbenzene	11.83	105	674762	50.951	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	41321m	42.705	ug/l	
82) 4-Chlorotoluene	11.90	91	531593	48.095	ug/l	97
83) tert-Butylbenzene	12.13	119	741355	50.541	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	654444	49.741	ug/l	97
85) sec-Butylbenzene	12.31	105	952164	50.197	ug/l	99
86) p-Isopropyltoluene	12.46	119	814227	51.148	ug/l	100
87) 1,3-Dichlorobenzene	12.48	146	379788	47.591	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	368152	47.969	ug/l	99
89) n-Butylbenzene	12.84	91	765612	50.932	ug/l	96
90) Hexachloroethane	12.92	117	197168	53.255	ug/l	95
91) 1,2-Dichlorobenzene	12.94	146	360713	47.522	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	20921	44.451	ug/l	94

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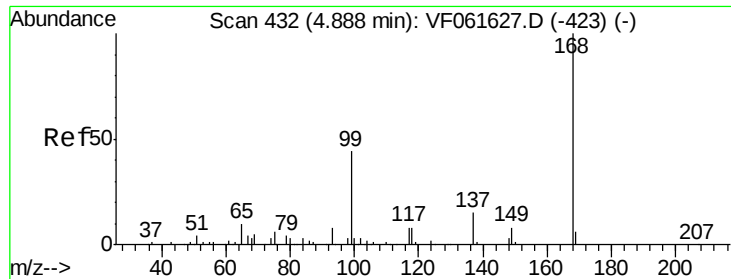
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	263508	48.433	ug/l	98
94) Hexachlorobutadiene	14.19	225	178601	53.152	ug/l	99
95) Naphthalene	14.46	128	442977	46.535	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	244058	48.873	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 354430

Ion Ratio Lower Upper

168 100

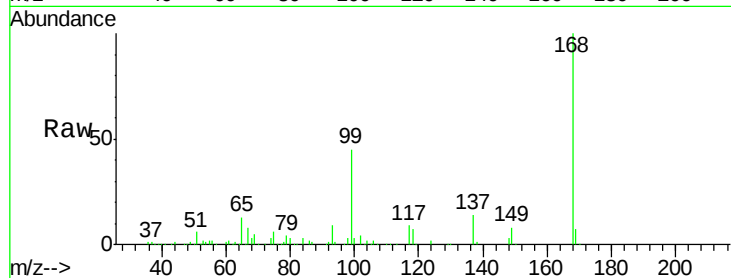
99 45.3 34.9 52.3

Manual Integrations

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2/22/2019 12:27:33 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

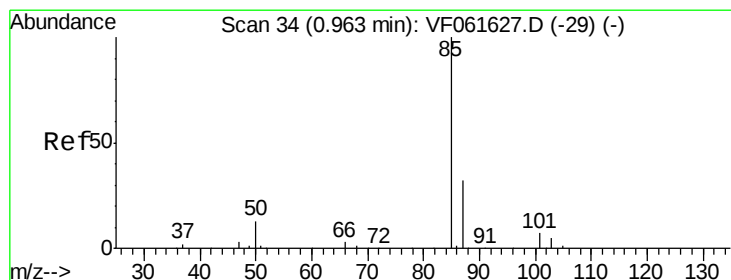
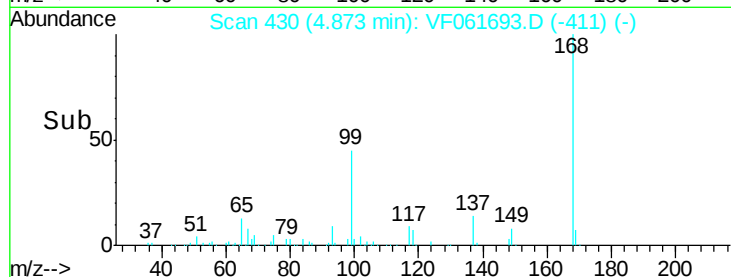
4.87

100000

50000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 45.052 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061693.D

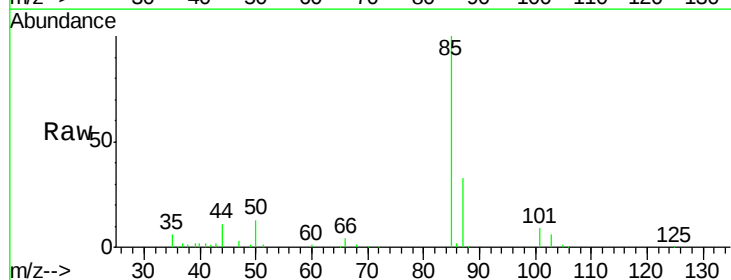
Acq: 21 Feb 2019 12:33

Tgt Ion: 85 Resp: 183371

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

60000

50000

40000

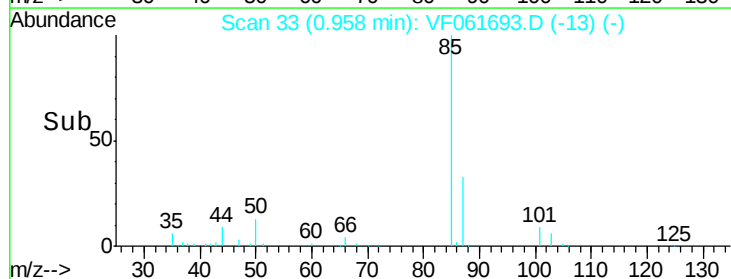
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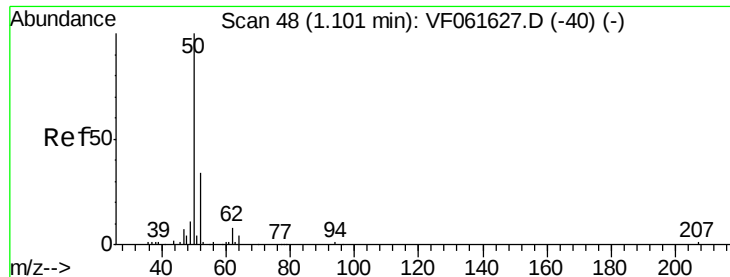
20000

10000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 44.172 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 188641

Ion Ratio Lower Upper

50 100

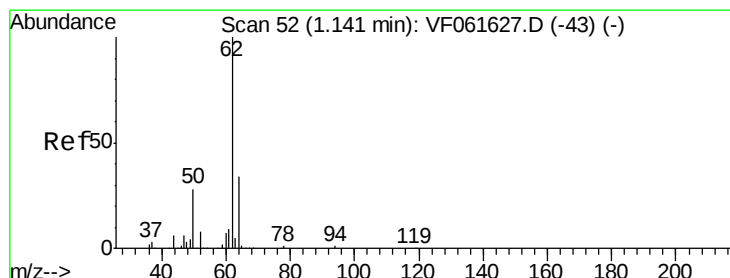
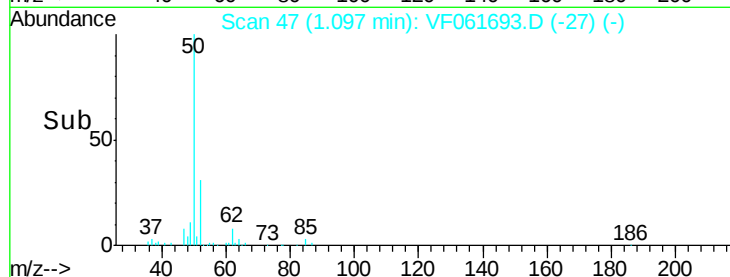
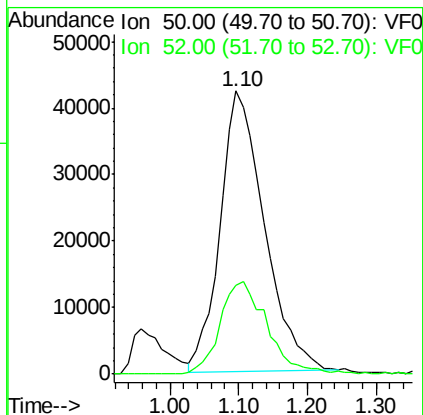
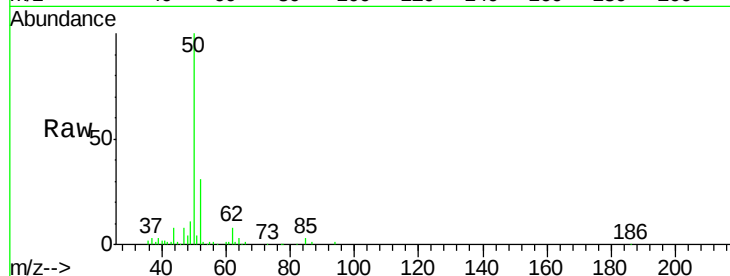
52 31.2 26.2 39.4

Manual Integrations

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2/22/2019 12:27:33 PM



#4

Vinyl Chloride

Concen: 46.888 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061693.D

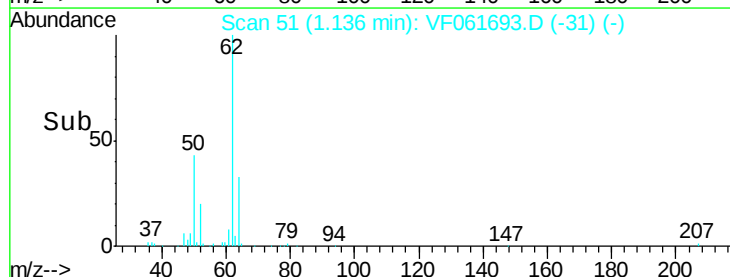
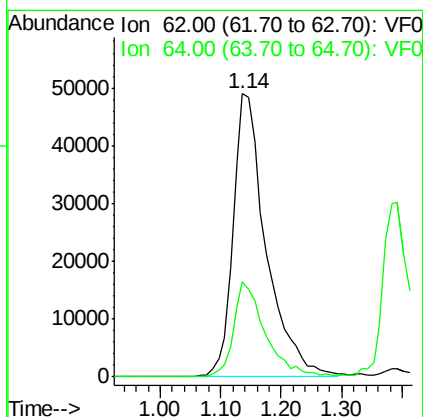
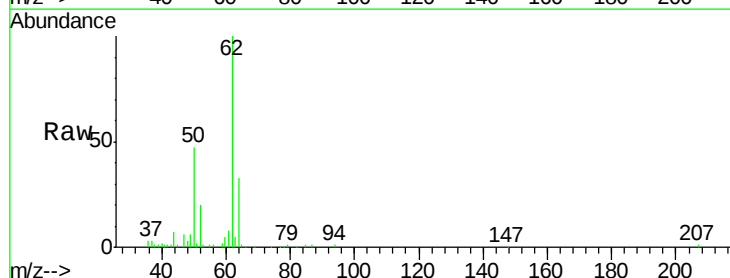
Acq: 21 Feb 2019 12:33

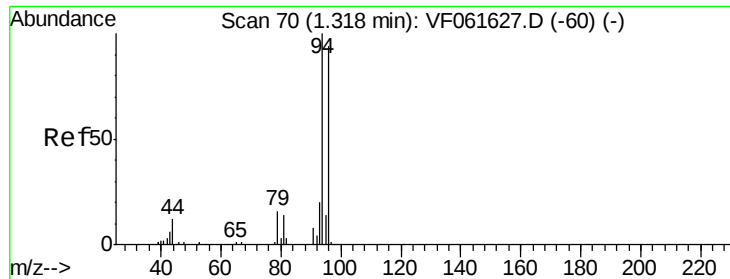
Tgt Ion: 62 Resp: 186150

Ion Ratio Lower Upper

62 100

64 33.5 27.5 41.3





#5

Bromomethane

Concen: 48.085 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 131386

Ion Ratio Lower Upper

94 100

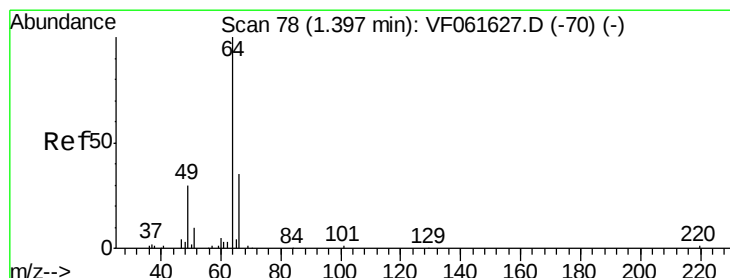
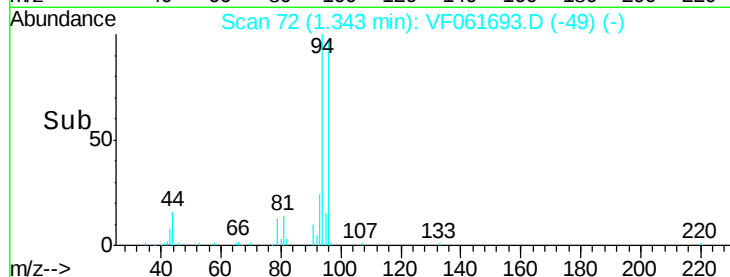
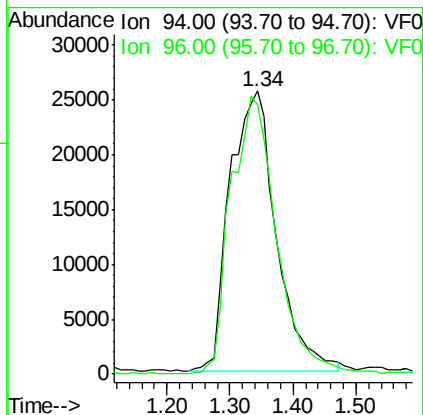
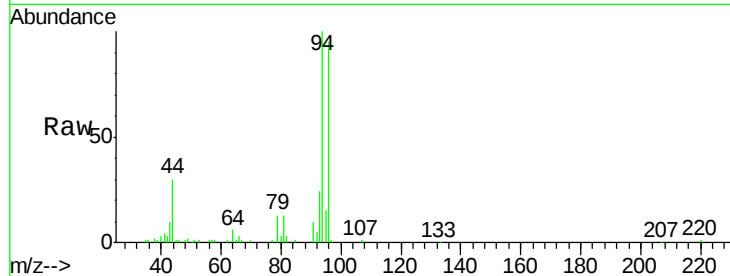
96 95.1 74.6 112.0

Manual Integrations

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2/22/2019 12:27:33 PM



#6

Chloroethane

Concen: 46.575 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061693.D

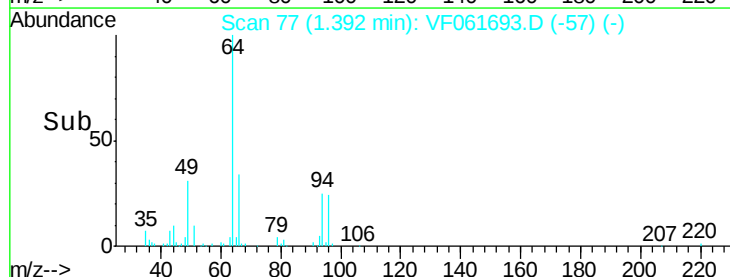
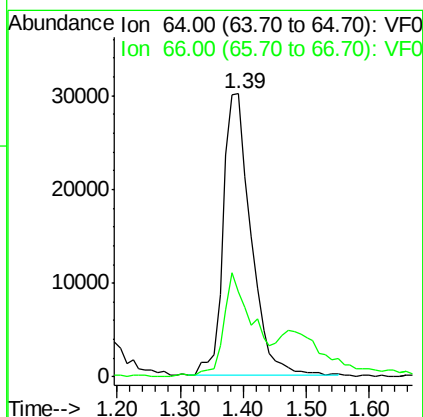
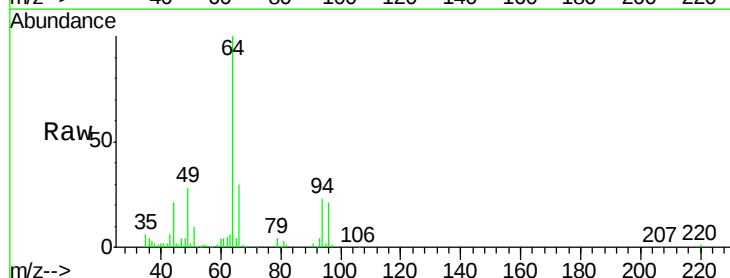
Acq: 21 Feb 2019 12:33

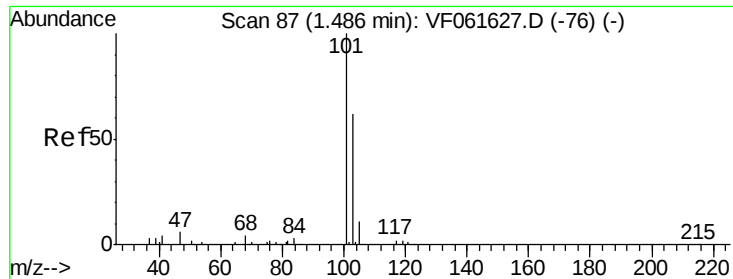
Tgt Ion: 64 Resp: 91124

Ion Ratio Lower Upper

64 100

66 30.2 27.9 41.9





#7

Trichlorofluoromethane

Concen: 47.479 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

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Tot Ion:101 Resp: 227349

Ion Ratio Lower Upper

101 100

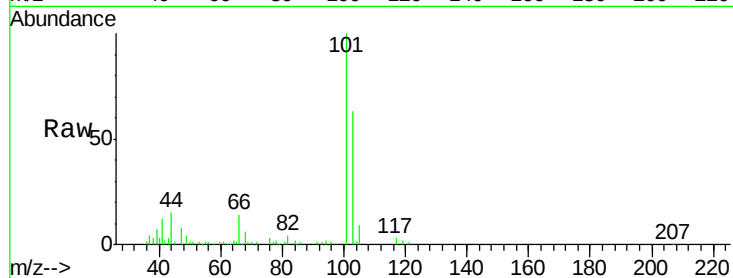
103 63.3 49.3 73.9

Manual Integrations

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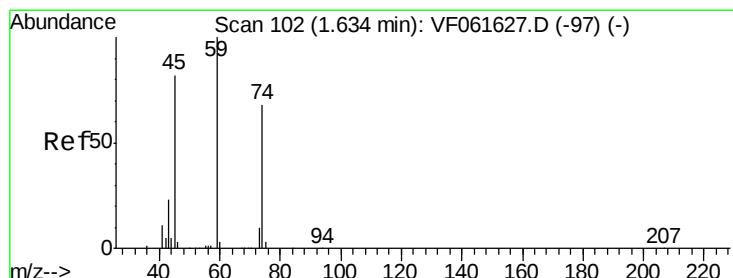
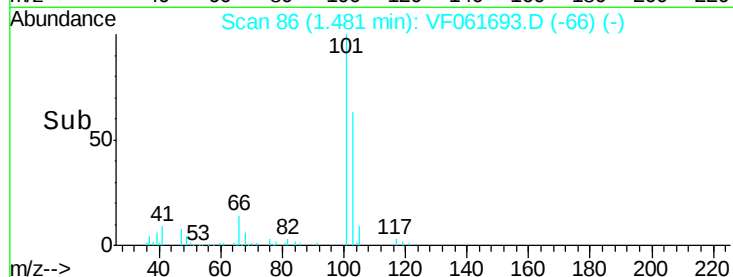
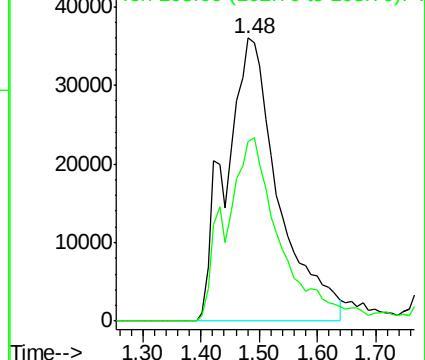
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2/22/2019 12:27:33 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 41.844 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061693.D

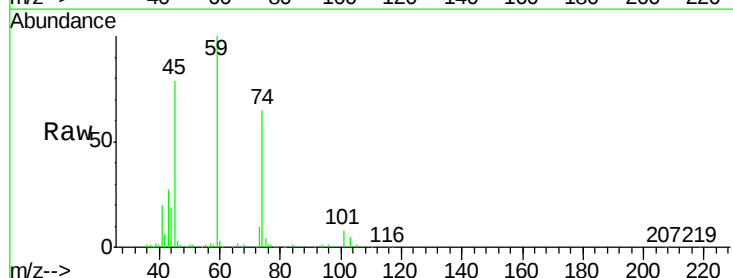
Acq: 21 Feb 2019 12:33

Tgt Ion: 74 Resp: 50494

Ion Ratio Lower Upper

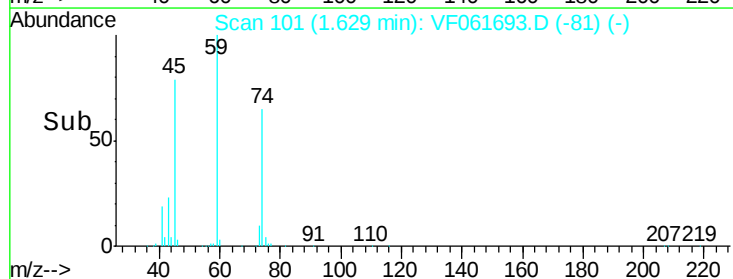
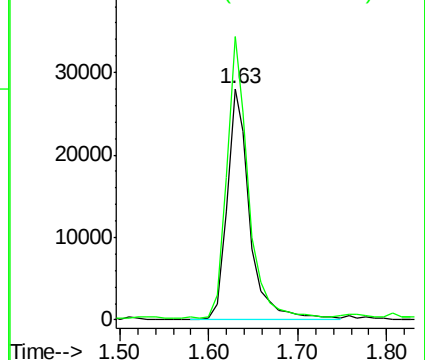
74 100

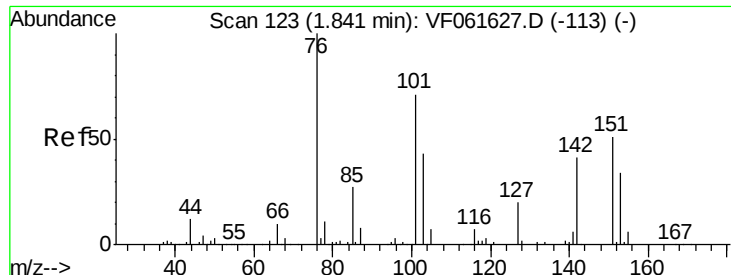
45 122.4 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.392 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

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MSVOA_F

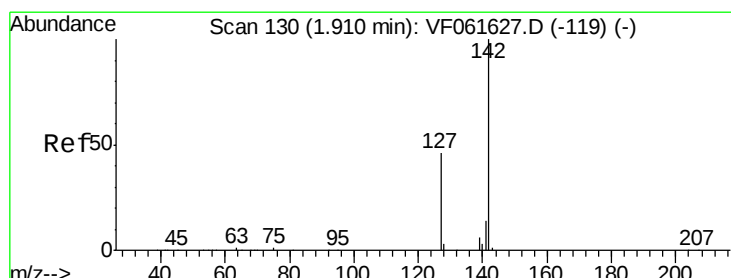
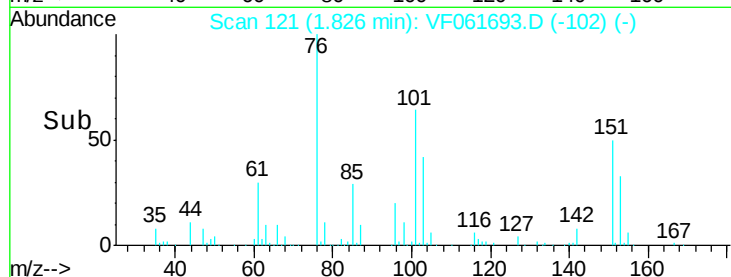
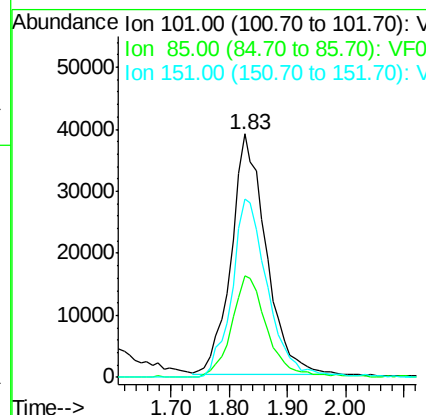
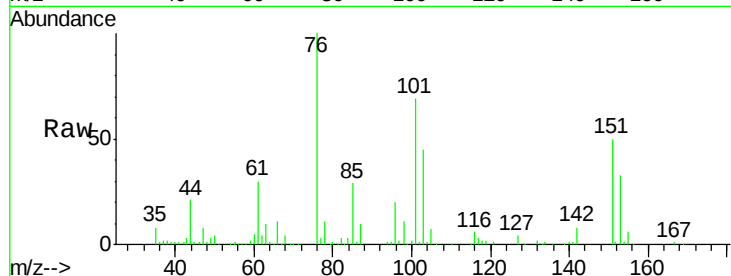
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	160255
Ion Ratio	Lower	Upper	
101	100		
85	42.0	29.8	44.6
151	73.3	56.3	84.5

Manual Integrations
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#10

Methyl Iodide

Concen: 46.317 ug/l m

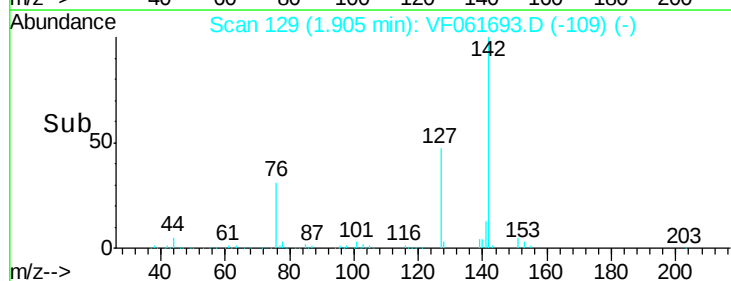
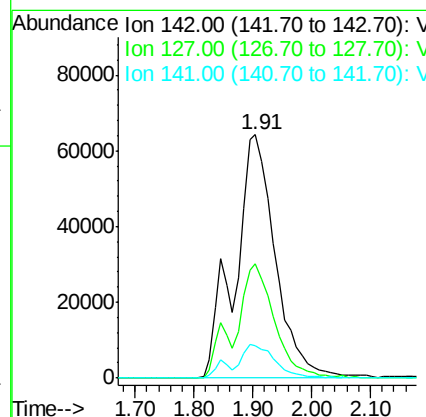
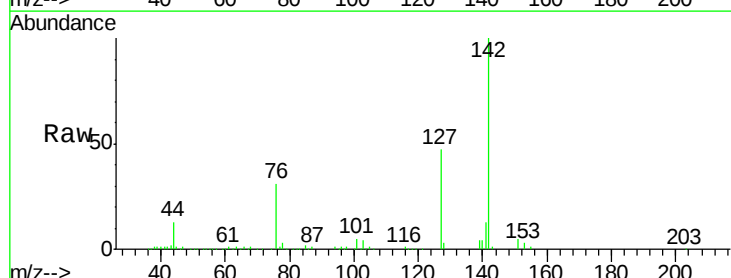
RT: 1.91 min Scan# 129

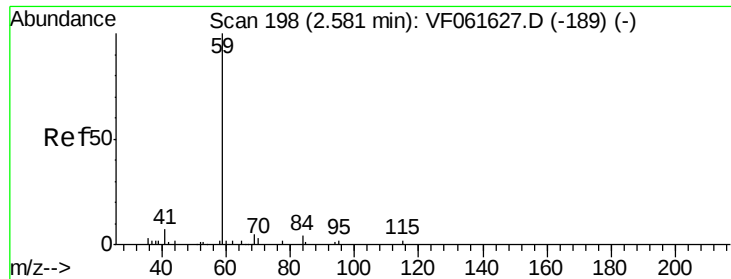
Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion:	142	Resp:	305626
Ion Ratio	Lower	Upper	
142	100		
127	46.8	36.6	55.0
141	13.4	11.0	16.6





#11

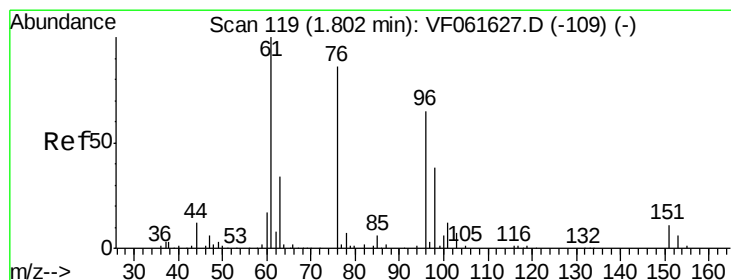
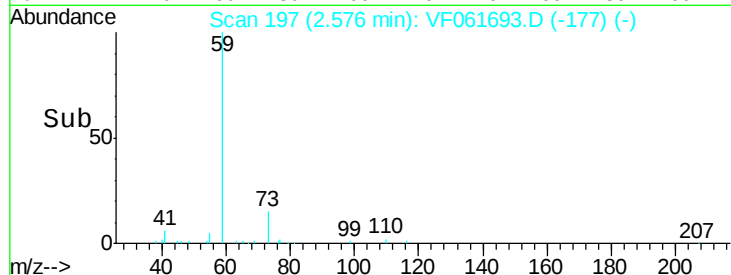
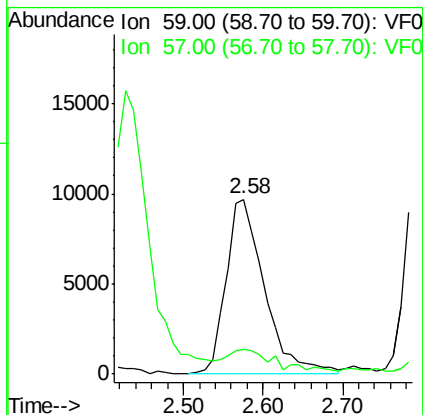
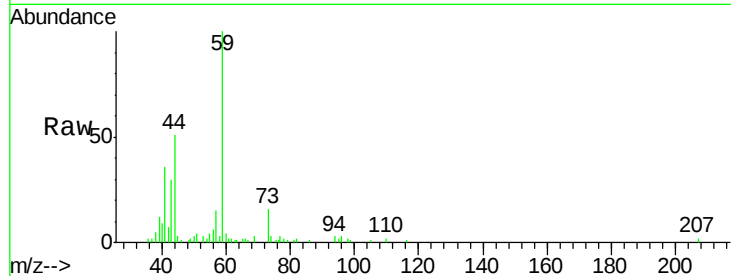
Tert butyl alcohol
Concen: 218.457 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	14.6	12.5	18.7

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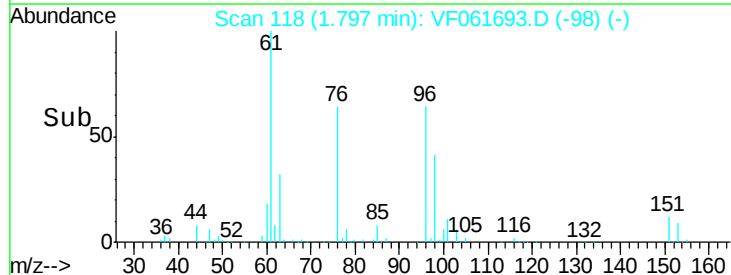
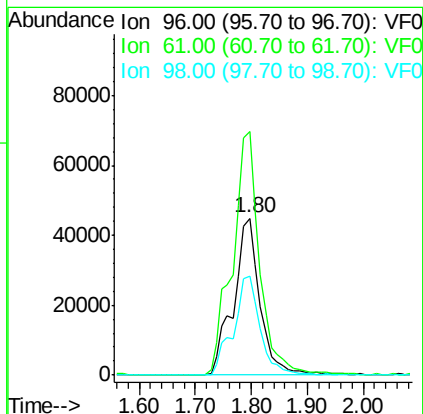
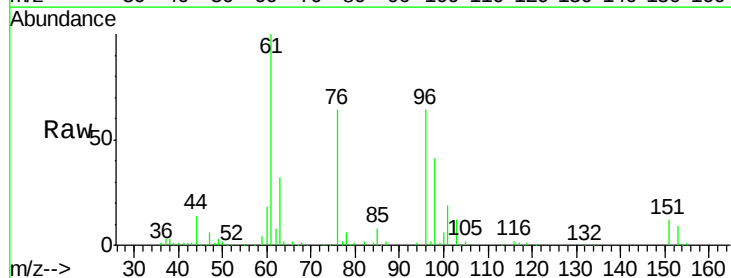
MMDadoda
2/22/2019 12:27:33 PM

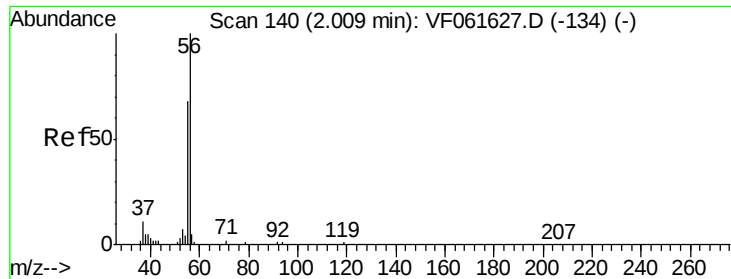


#12

1,1-Dichloroethene
Concen: 49.055 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.5	122.6	184.0
98	63.4	47.2	70.8





#13

Acrolein

Concen: 239.831 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 45340

Ion Ratio Lower Upper

56 100

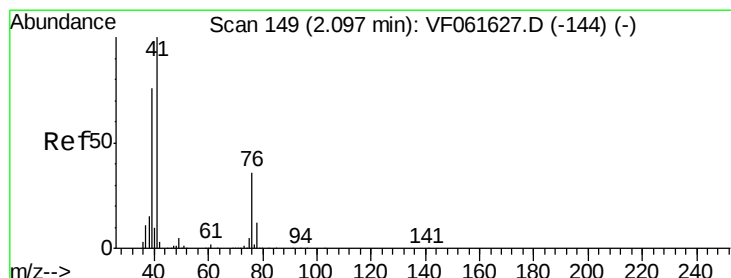
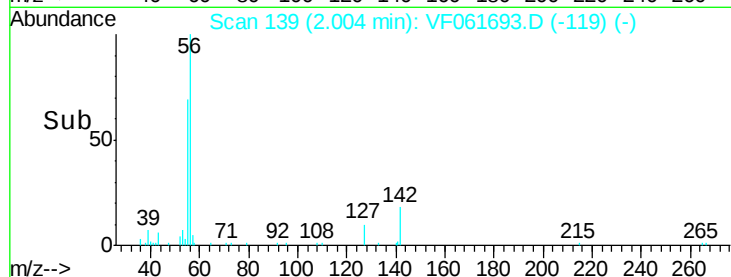
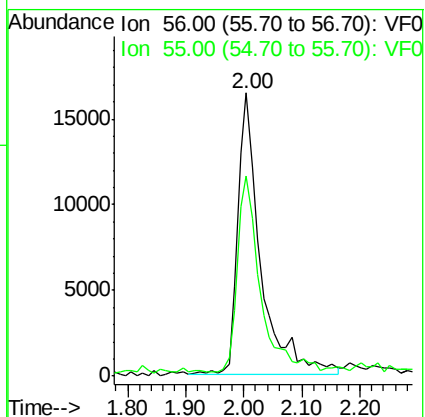
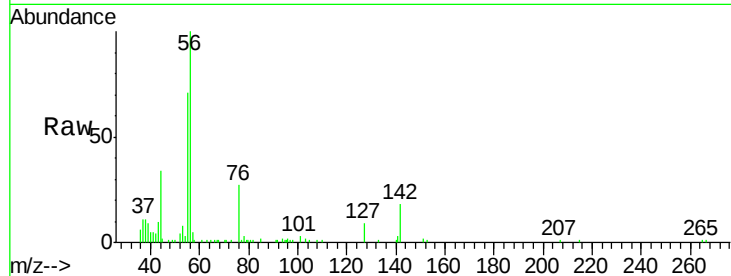
55 70.5 55.0 82.6

Manual Integrations

APPROVED

MMDadoda

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#14

Allyl chloride

Concen: 46.845 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

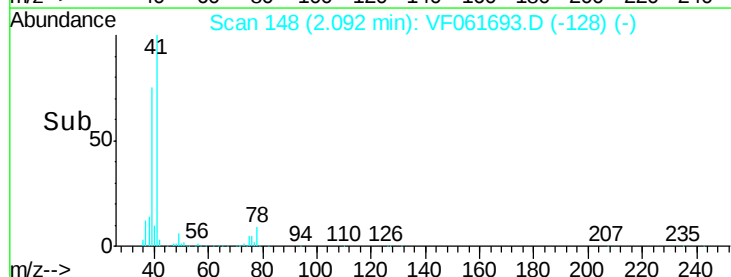
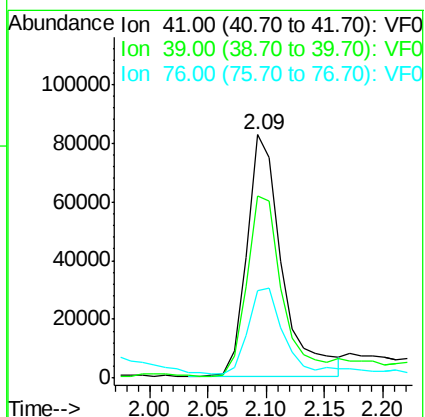
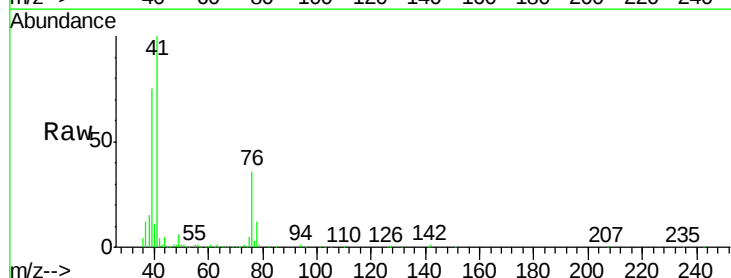
Tgt Ion: 41 Resp: 174585

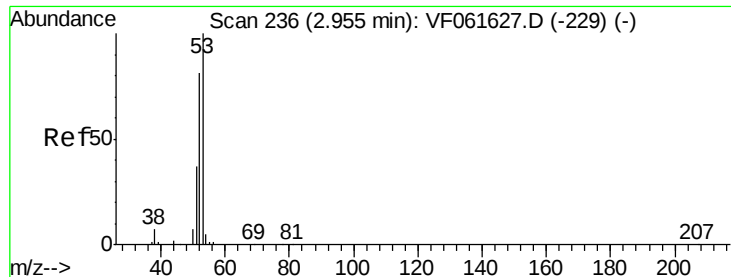
Ion Ratio Lower Upper

41 100

39 74.9 61.6 92.4

76 35.7 30.3 45.5





#15

Acrylonitrile

Concen: 205.913 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

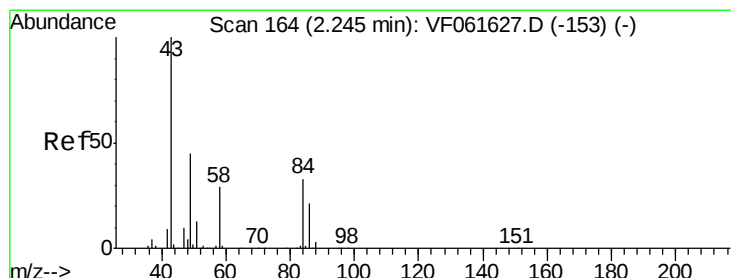
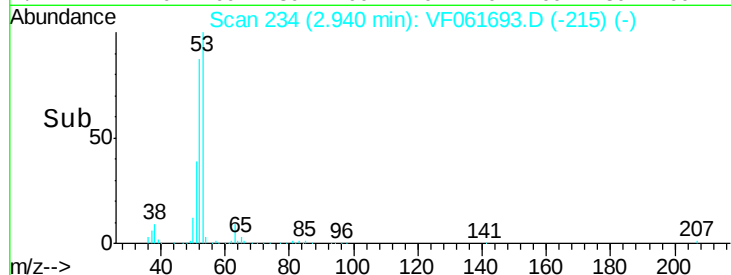
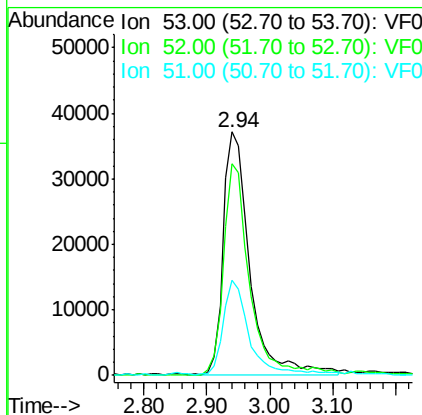
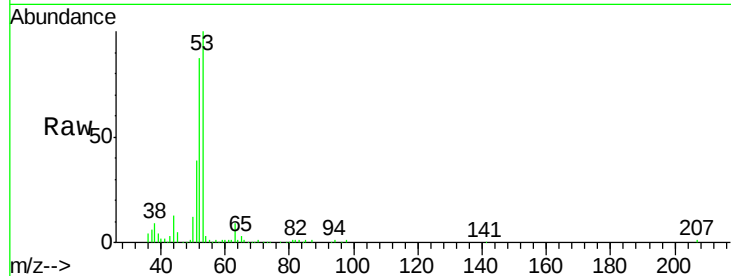
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	109863
Ion Ratio	Lower	Upper	
53	100		
52	87.1	64.6	97.0
51	39.2	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 243.937 ug/l

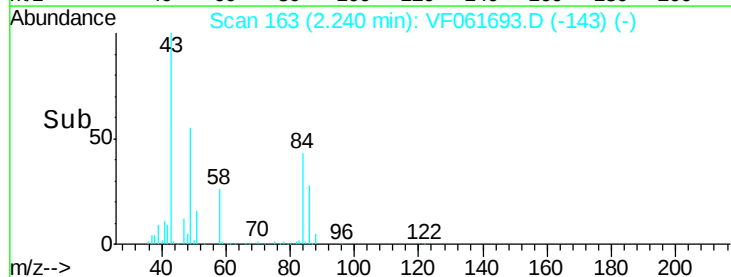
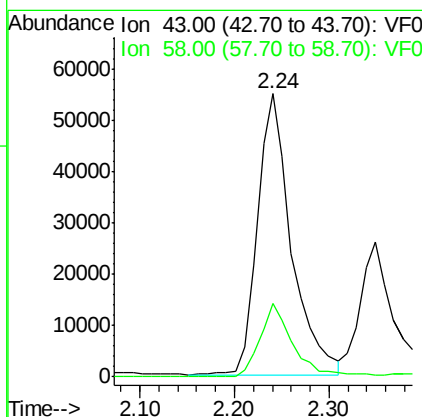
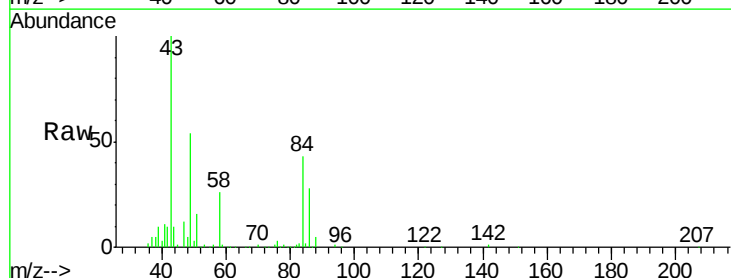
RT: 2.24 min Scan# 163

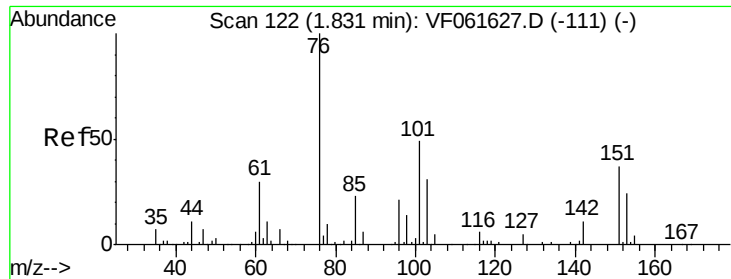
Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion:	43	Resp:	136031
Ion Ratio	Lower	Upper	
43	100		
58	25.9	22.9	34.3





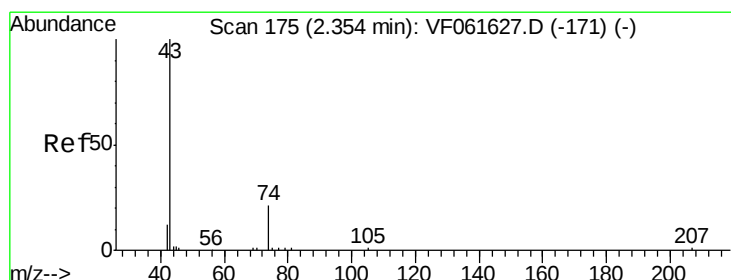
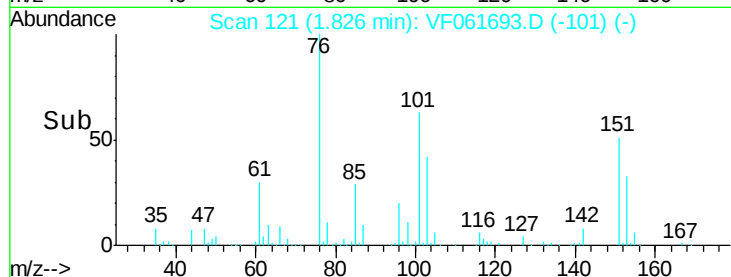
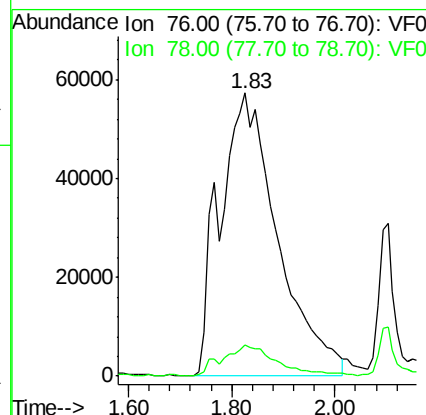
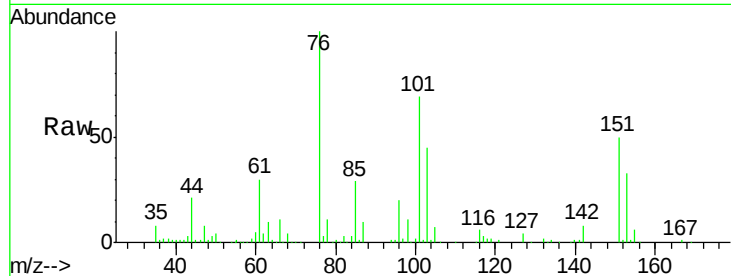
#17
Carbon Disulfide
Concen: 46.483 ug/l m
RT: 1.83 min Scan# 121
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 443759
Ion Ratio Lower Upper
76 100
78 11.0 7.9 11.9

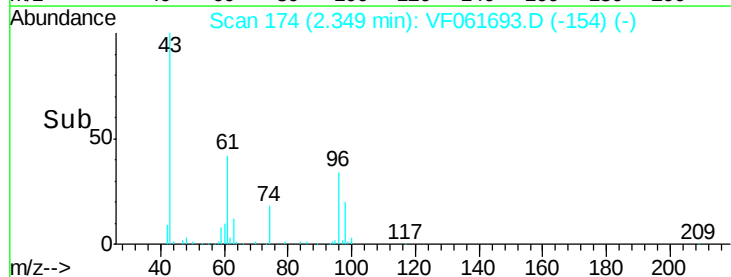
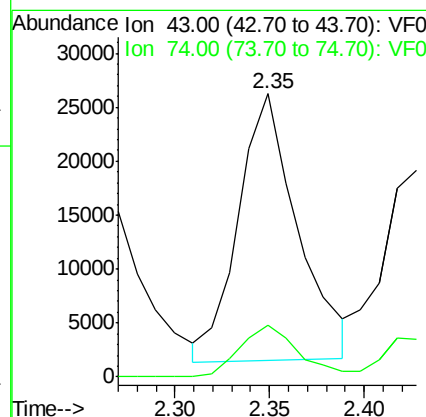
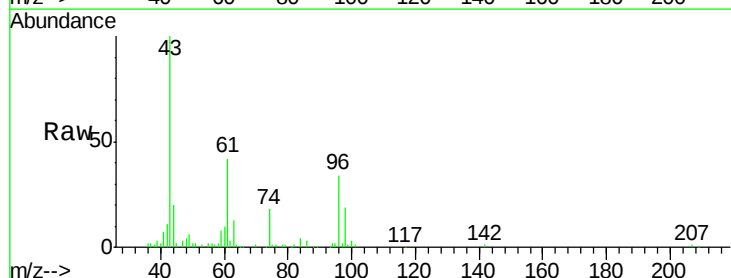
Manual Integrations
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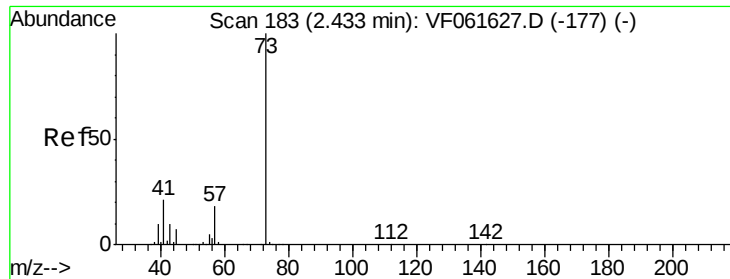
MMDadoda
2/22/2019 12:27:33 PM



#18
Methyl Acetate
Concen: 42.959 ug/l
RT: 2.35 min Scan# 174
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion: 43 Resp: 53967
Ion Ratio Lower Upper
43 100
74 18.1 14.6 21.8





#19

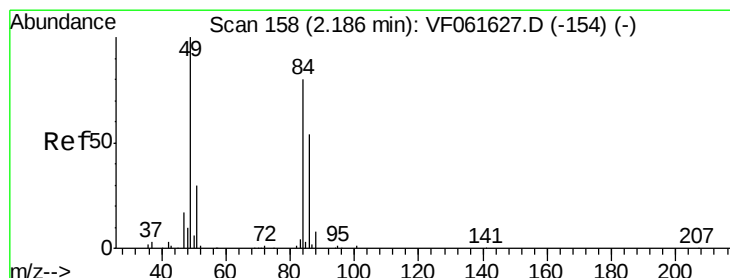
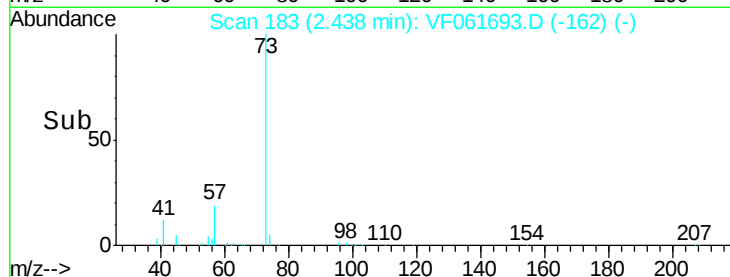
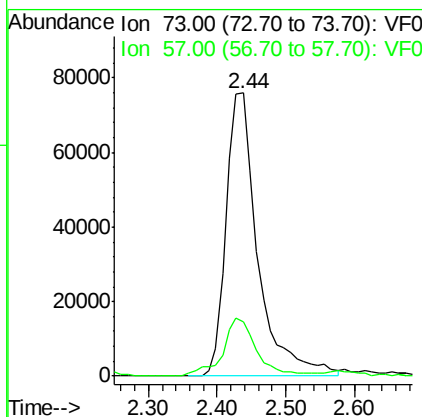
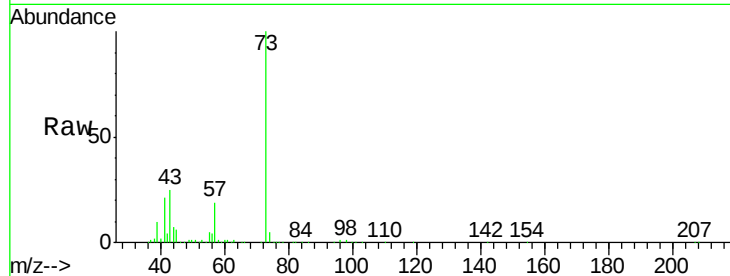
Methyl tert-butyl Ether
Concen: 46.881 ug/l
RT: 2.44 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.2	15.8	23.8

Manual Integrations
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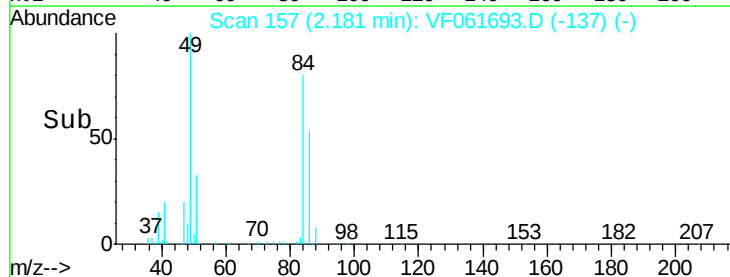
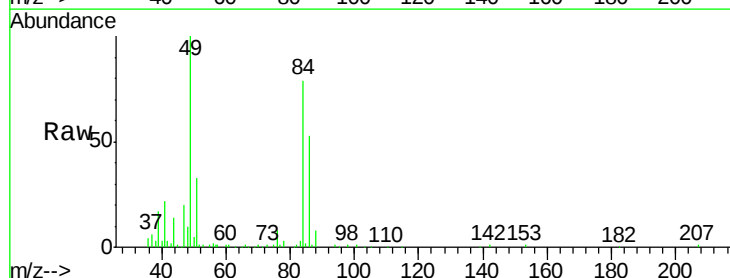
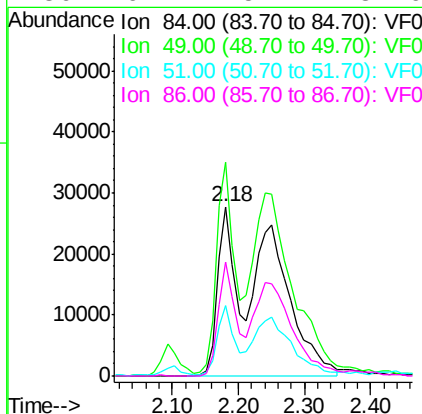
MMDadoda
2/22/2019 12:27:33 PM

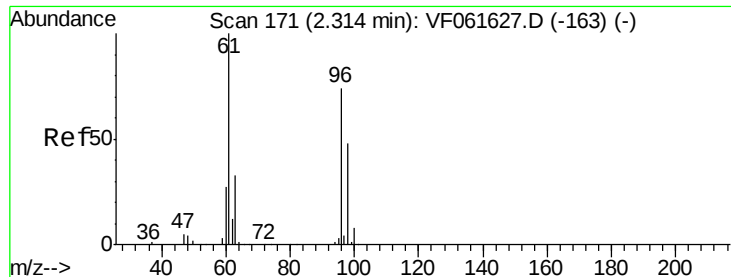


#20

Methylene Chloride
Concen: 48.994 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
84	100		
49	126.0	101.8	152.8
51	41.8	31.1	46.7
86	67.4	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 43.966 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

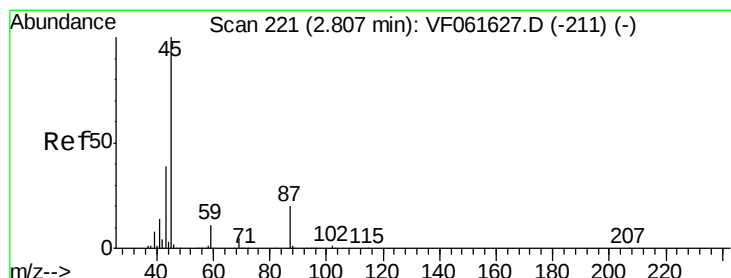
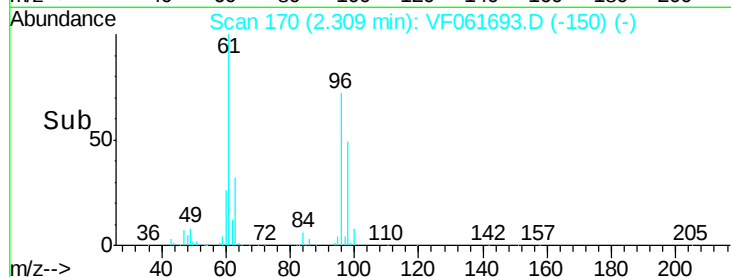
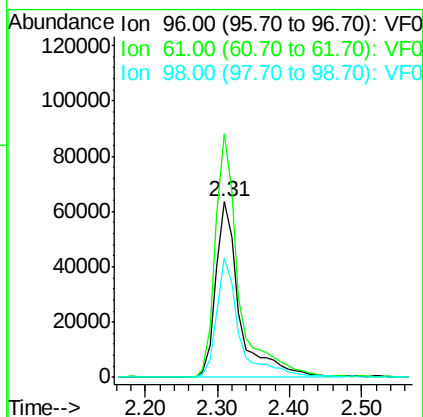
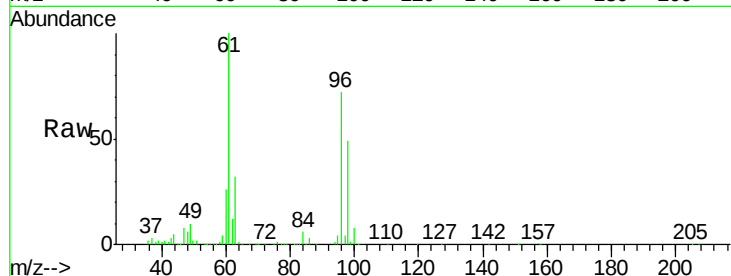
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	145158
Ion	Ratio	Lower	Upper
96	100		
61	138.9	108.2	162.4
98	68.0	52.2	78.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 46.416 ug/l

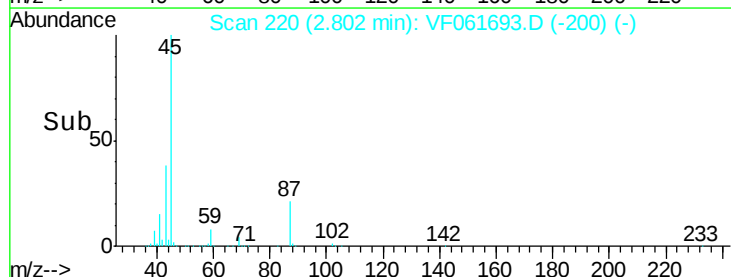
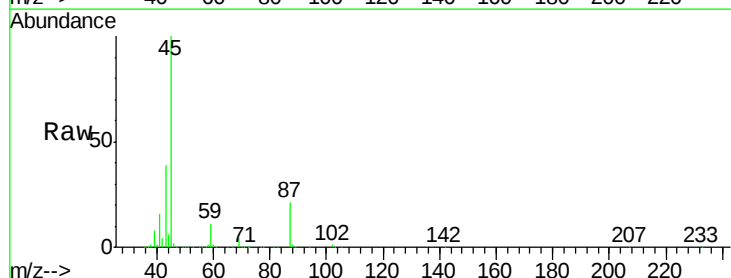
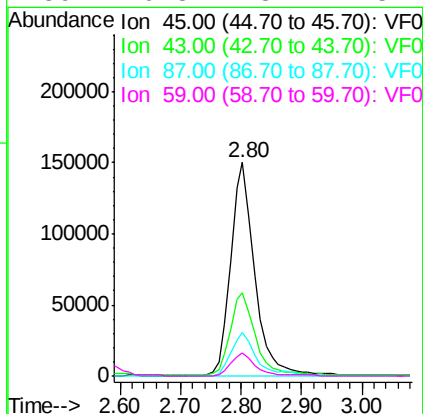
RT: 2.80 min Scan# 220

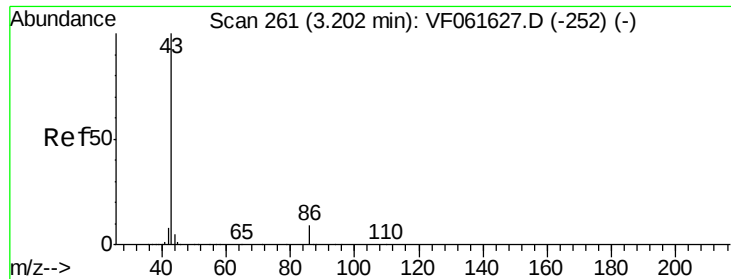
Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion:	45	Resp:	415245
Ion	Ratio	Lower	Upper
45	100		
43	39.2	31.4	47.2
87	20.6	16.3	24.5
59	10.8	8.7	13.1





#23

Vinyl Acetate

Concen: 216.253 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 944920

Ion Ratio Lower Upper

43 100

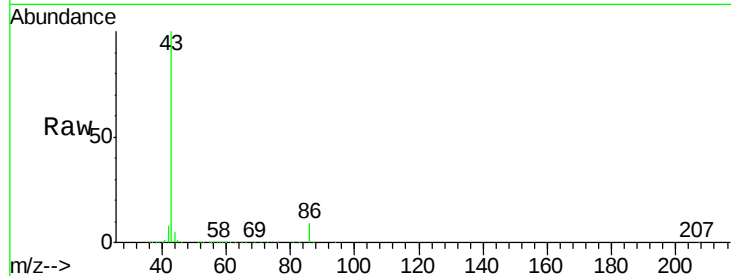
86 9.0 7.5 11.3

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.19

400000

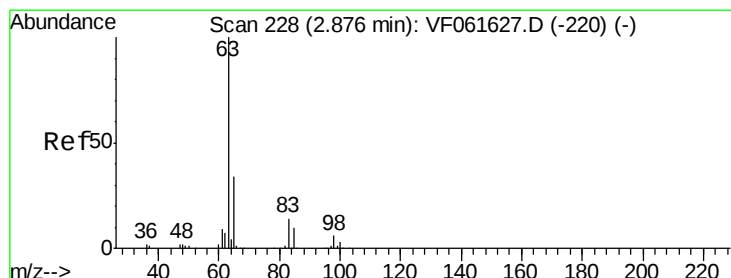
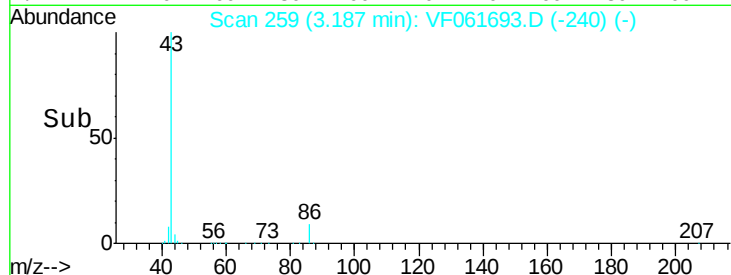
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 46.959 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

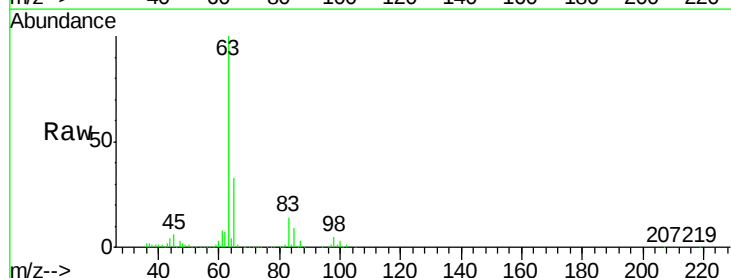
Tgt Ion: 63 Resp: 254231

Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

100 3.2 1.8 5.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

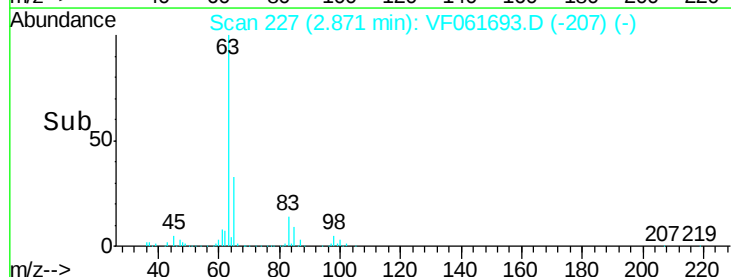
2.87

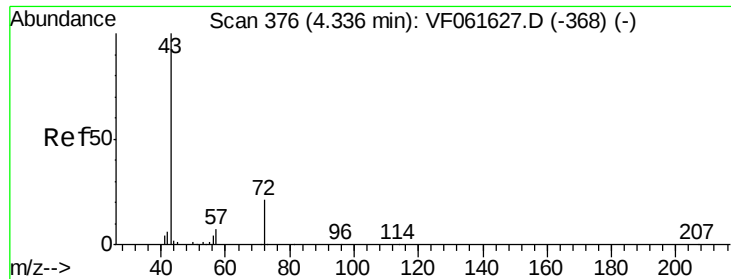
100000

50000

0

Time-->





#25

2-Butanone

Concen: 226.284 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 275632

Ion Ratio Lower Upper

43 100

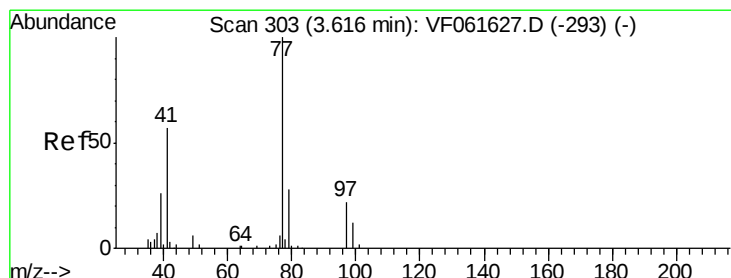
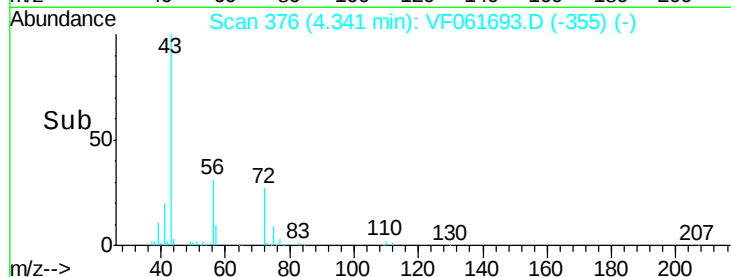
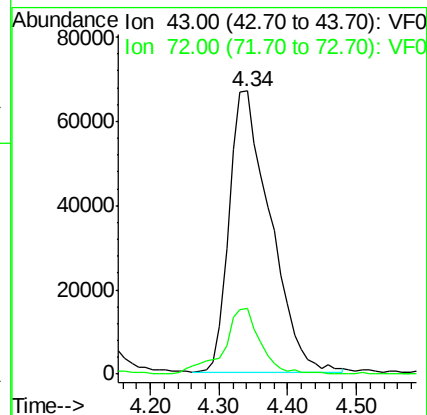
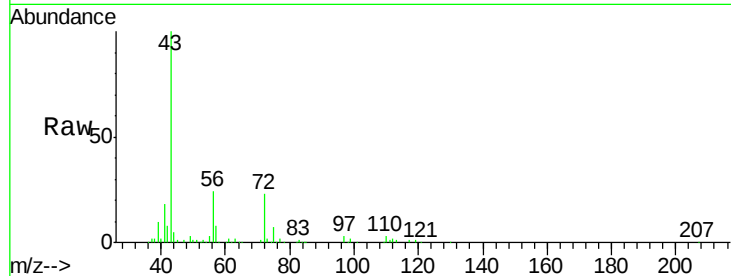
72 23.2 17.1 25.7

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:33 PM



#26

2,2-Dichloropropane

Concen: 55.203 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061693.D

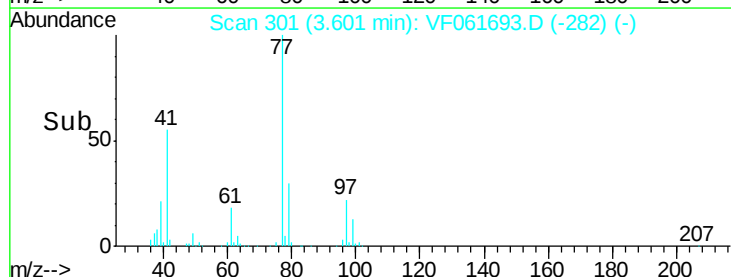
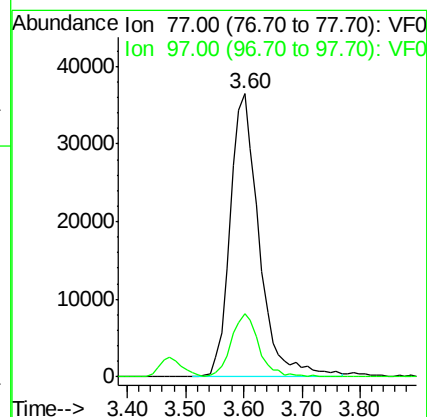
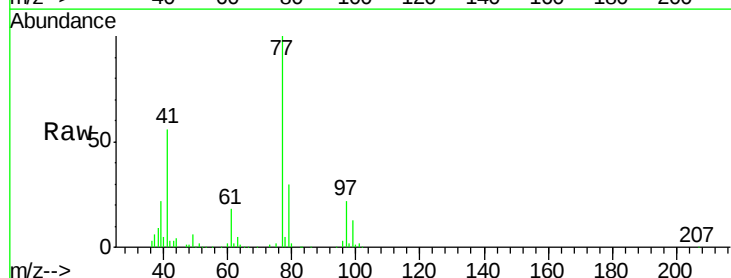
Acq: 21 Feb 2019 12:33

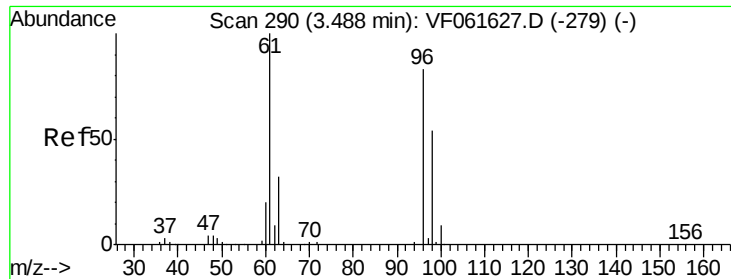
Tgt Ion: 77 Resp: 126591

Ion Ratio Lower Upper

77 100

97 22.2 11.7 35.0





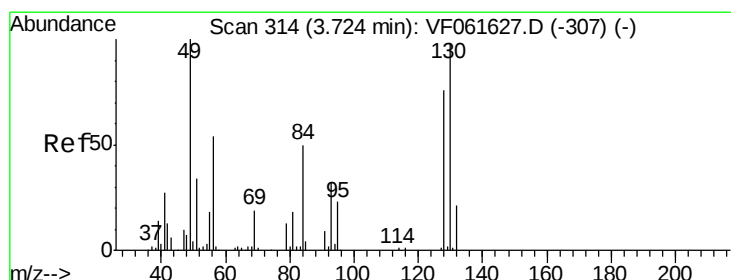
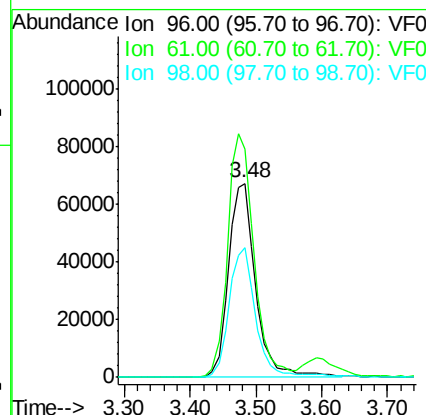
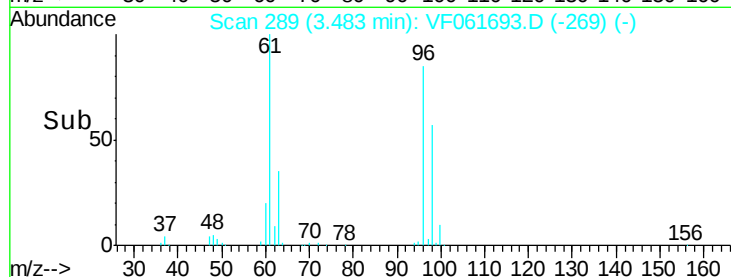
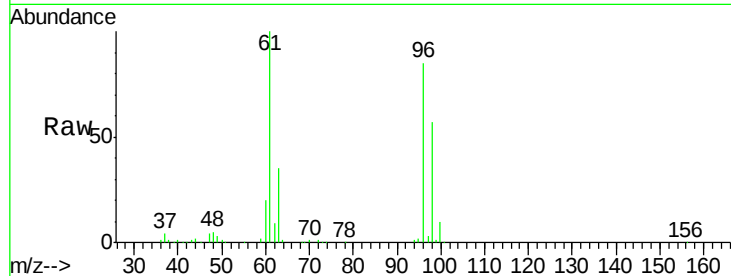
#27
 cis-1,2-Dichloroethene
 Concen: 44.792 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	194111		
61	117.4	0.0	241.6	
98	66.8	0.0	130.2	

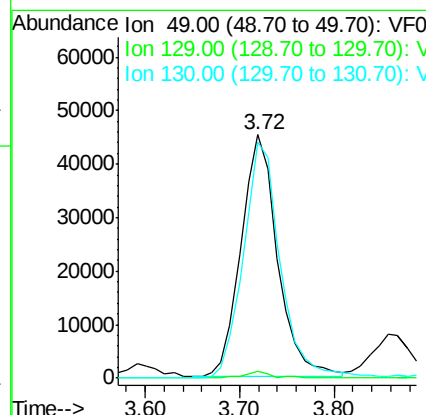
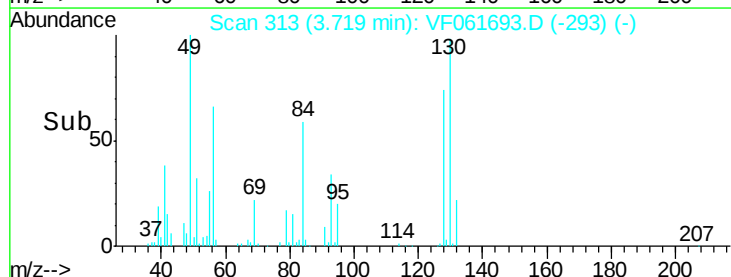
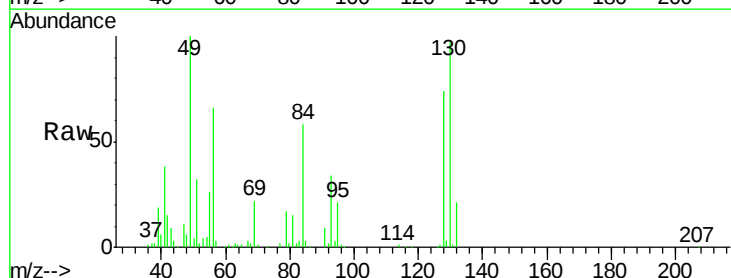
Manual Integrations
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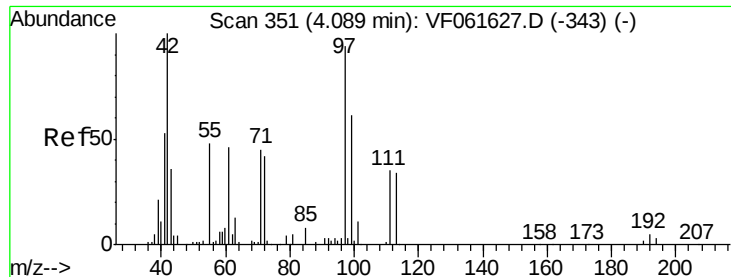
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#28
 Bromochloromethane
 Concen: 46.518 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	120837		
129	2.8	0.0	3.4	
130	97.1	77.7	116.5	





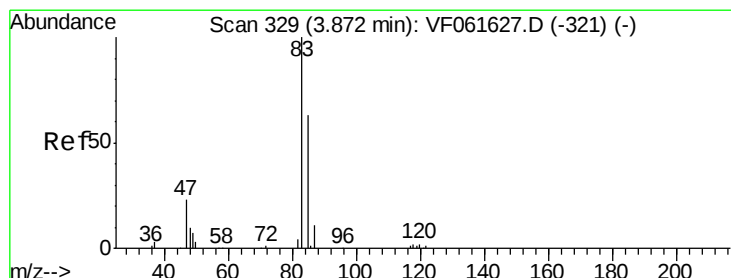
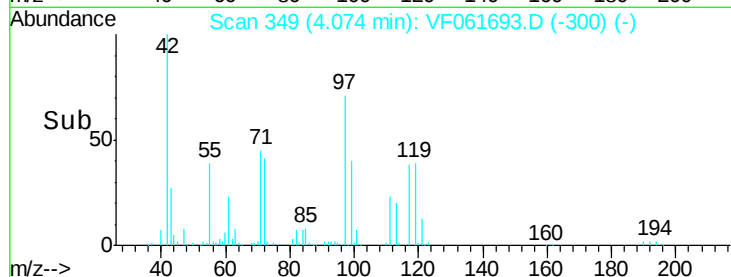
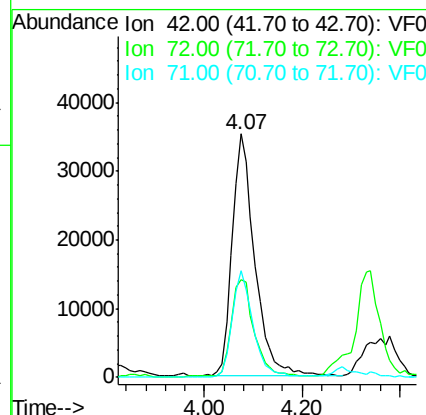
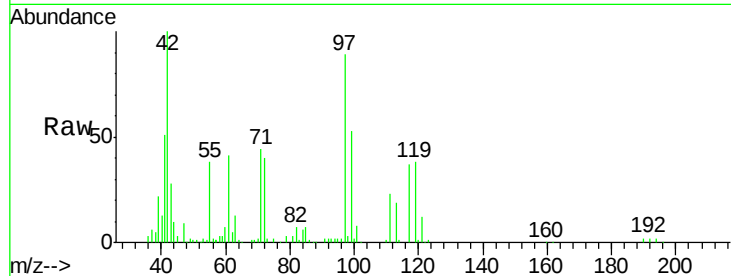
#29
Tetrahydrofuran
Concen: 203.706 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100	112777		
72	40.1		35.2	52.8
71	40.8		32.9	49.3

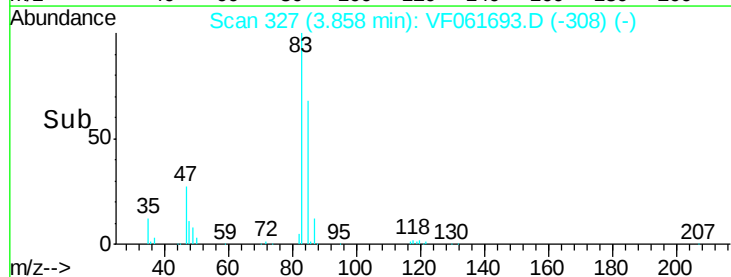
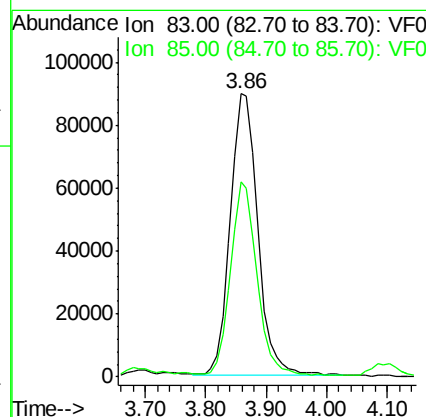
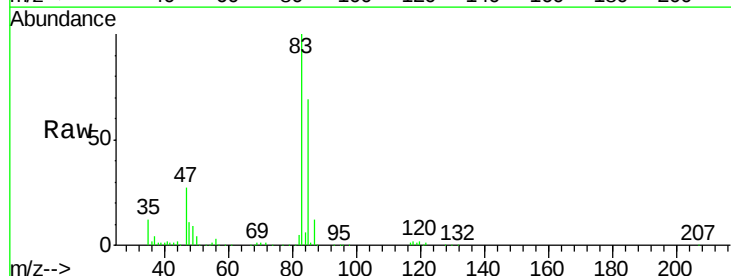
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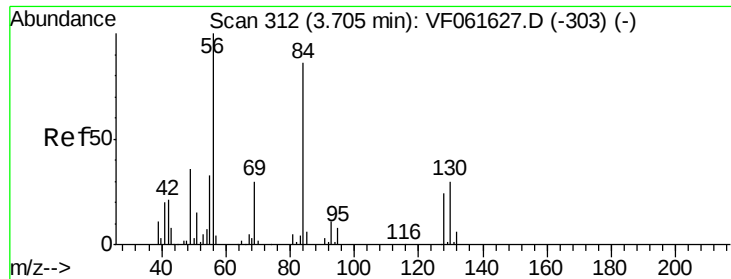
MMDadoda
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#30
Chloroform
Concen: 45.865 ug/l
RT: 3.86 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	282383		
85	69.0		51.1	76.7





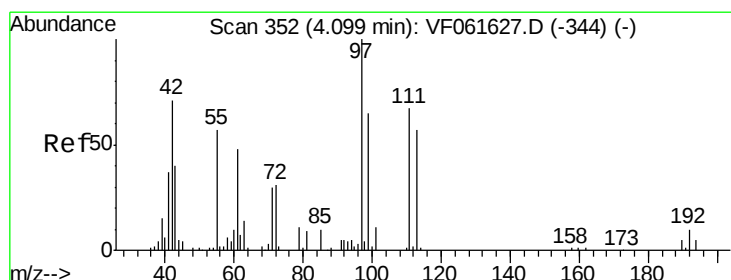
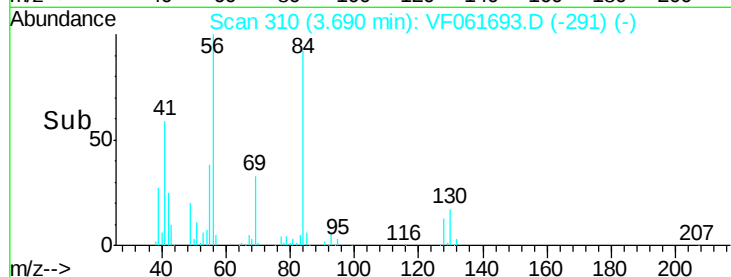
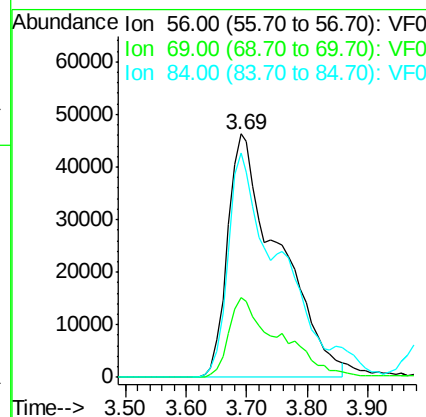
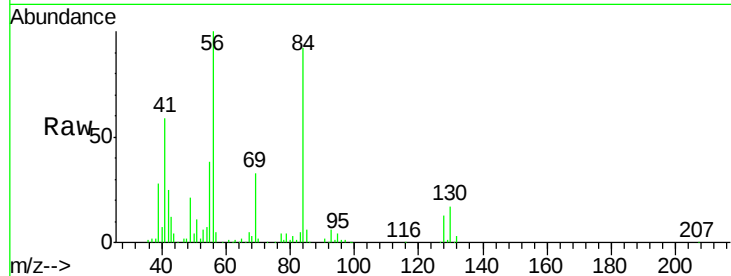
#31
Cyclohexane
Concen: 46.639 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	23.8	35.8
84	92.1	68.6	103.0

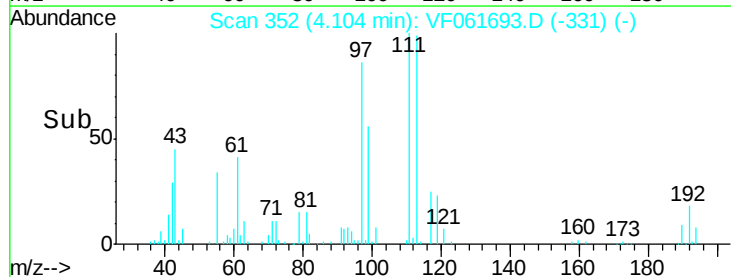
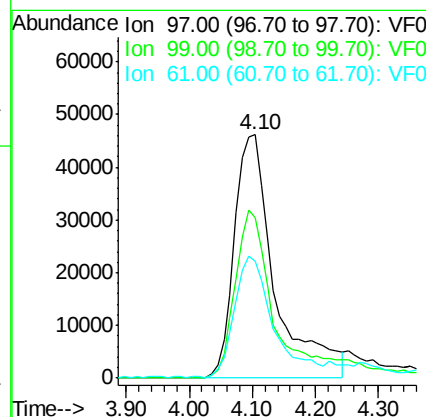
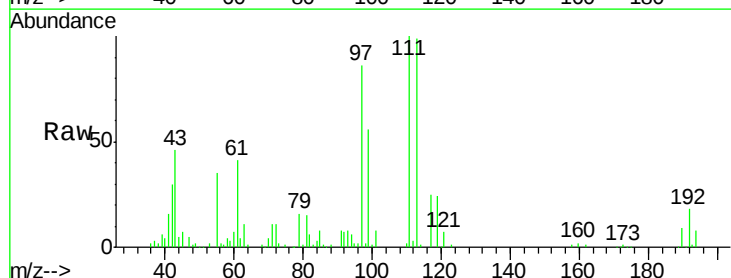
Manual Integrations
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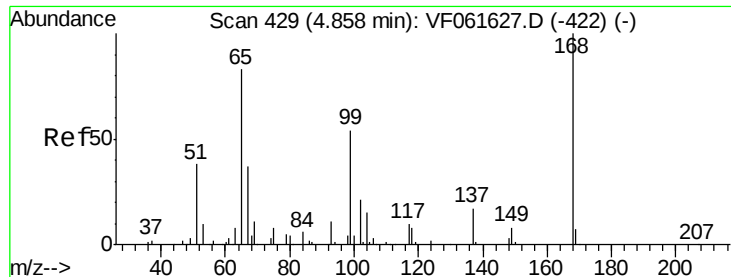
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 51.255 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	52.2	78.2
61	47.8	39.2	58.8





#33

1,2-Dichloroethane-d4

Concen: 50.135 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 130305

Ion Ratio Lower Upper

65 100

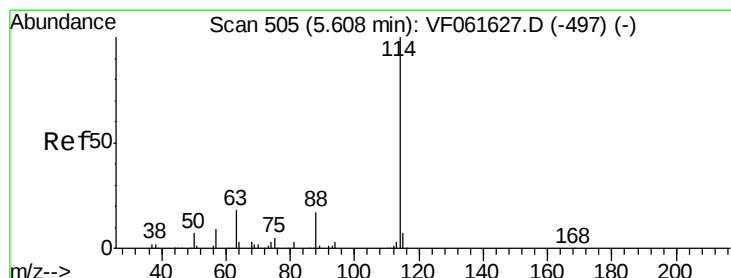
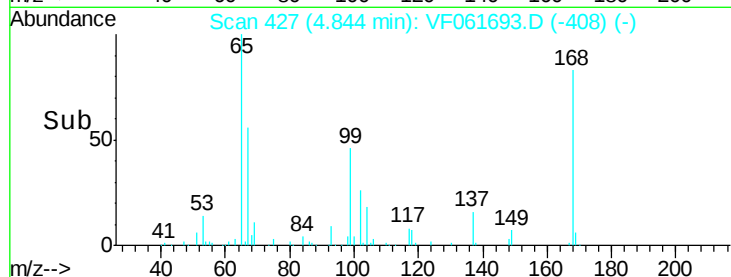
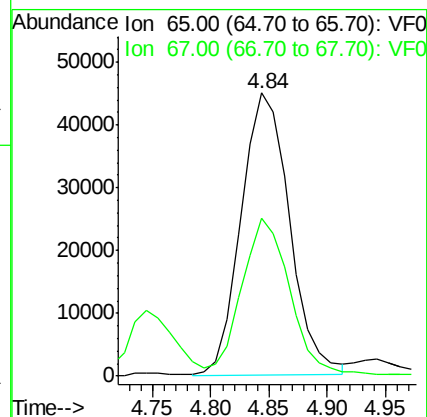
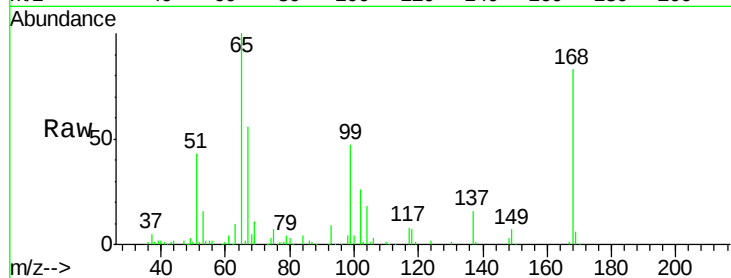
67 55.8 0.0 104.0

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2/22/2019 12:27:33 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

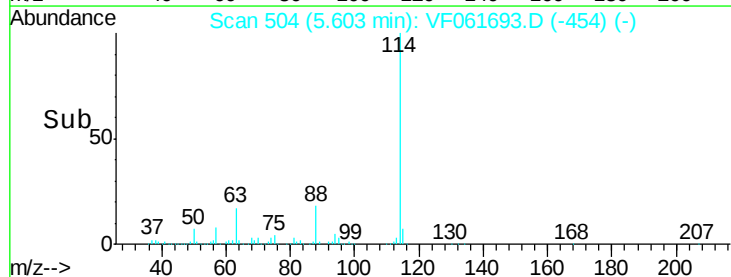
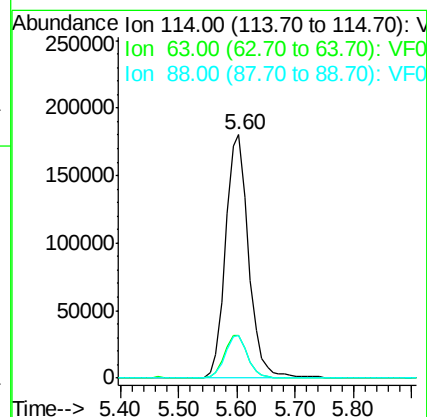
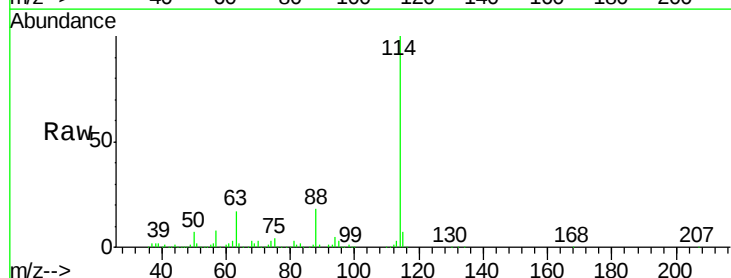
Tgt Ion: 114 Resp: 495937

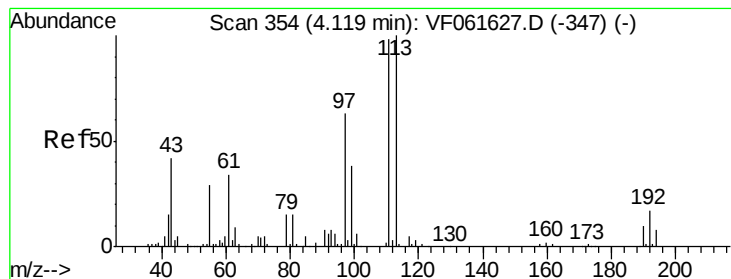
Ion Ratio Lower Upper

114 100

63 17.5 0.0 36.6

88 17.7 0.0 34.4





#35

Dibromofluoromethane

Concen: 52.997 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

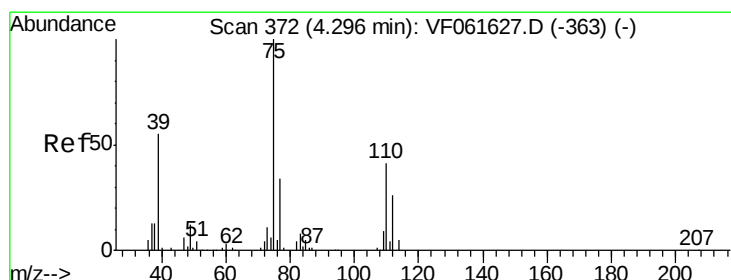
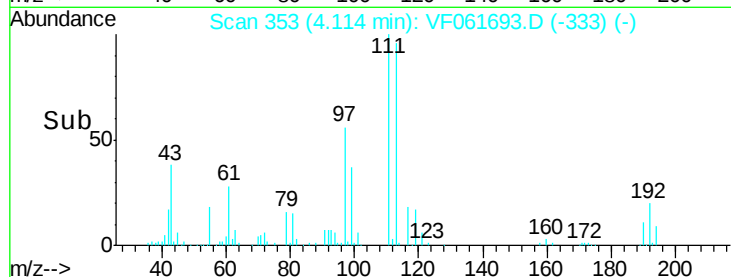
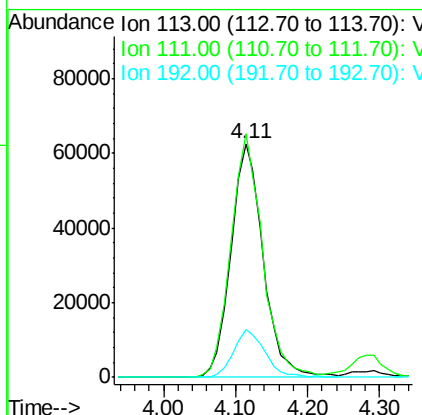
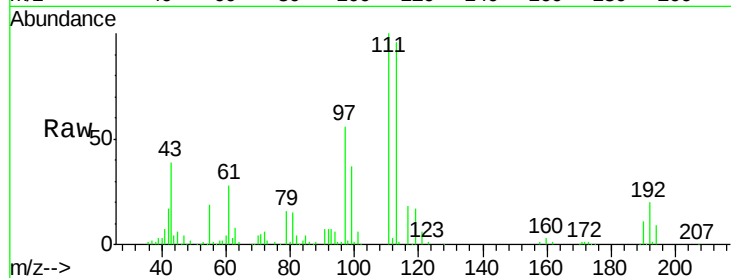
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	195181		
111	104.0	78.8	118.2	
192	21.0	13.4	20.0	

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#36

1,1-Dichloropropene

Concen: 50.583 ug/l

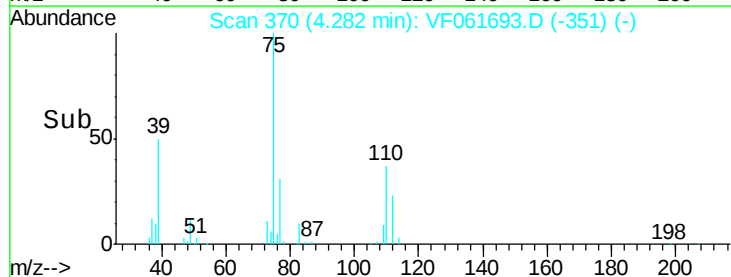
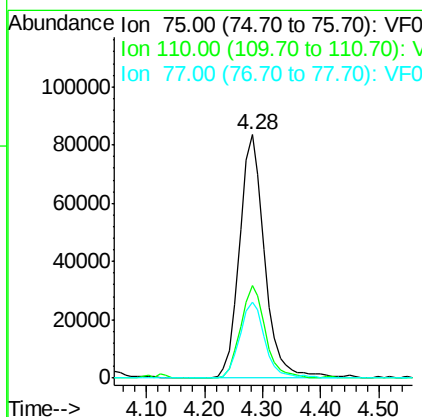
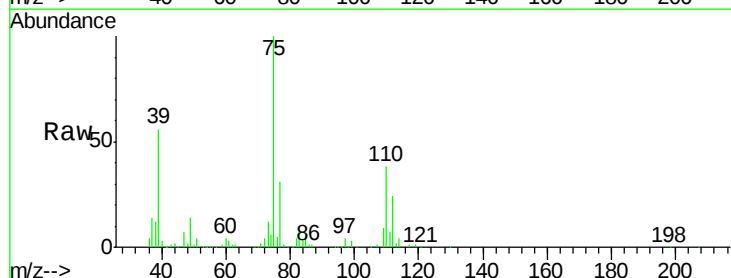
RT: 4.28 min Scan# 370

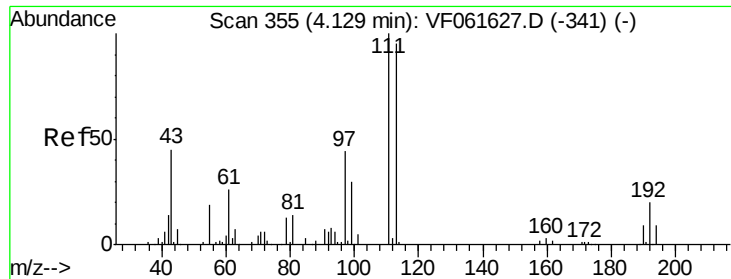
Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	248507		
110	37.9	20.5	61.6	
77	31.1	27.0	40.4	





#37

Ethyl Acetate

Concen: 43.334 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

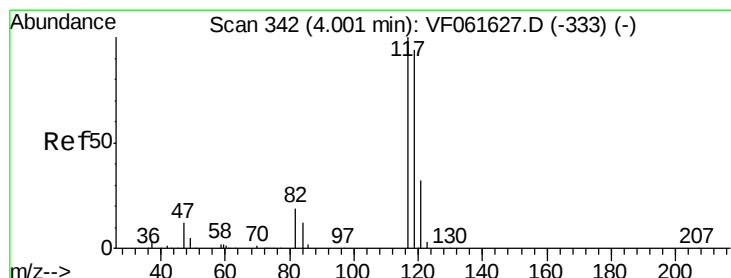
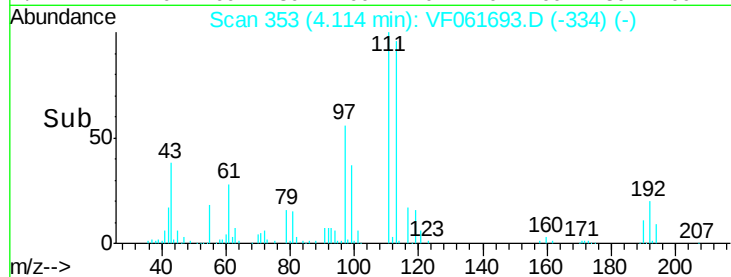
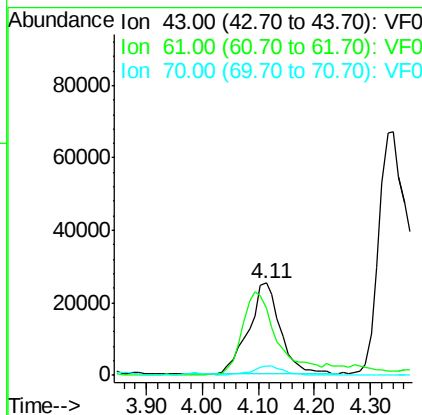
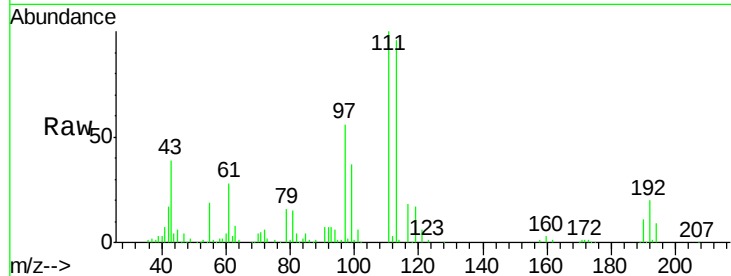
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	98883
Ion Ratio	Lower	Upper	
43	100		
61	73.0	45.7	68.5#
70	10.7	8.5	12.7

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#38

Carbon Tetrachloride

Concen: 51.339 ug/l

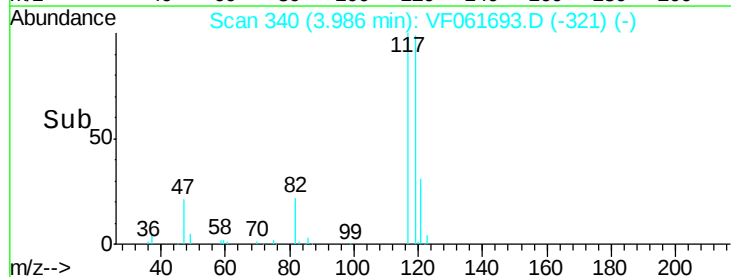
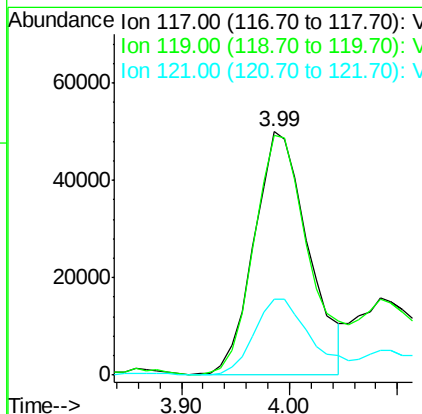
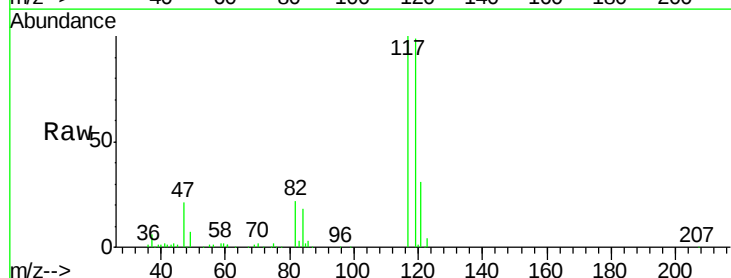
RT: 3.99 min Scan# 340

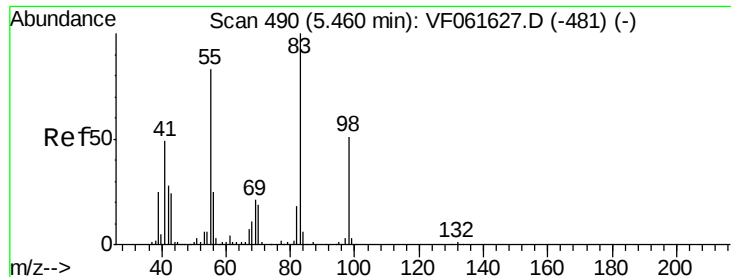
Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion:	117	Resp:	174163
Ion Ratio	Lower	Upper	
117	100		
119	98.7	75.6	113.4
121	31.1	25.2	37.8





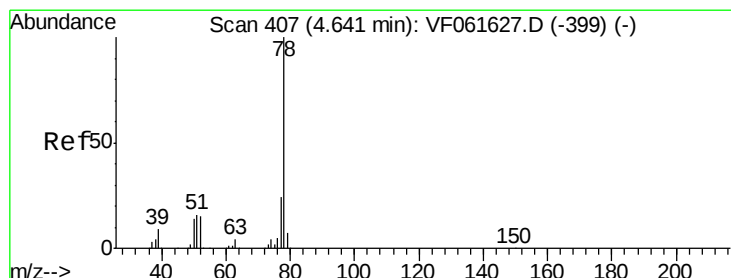
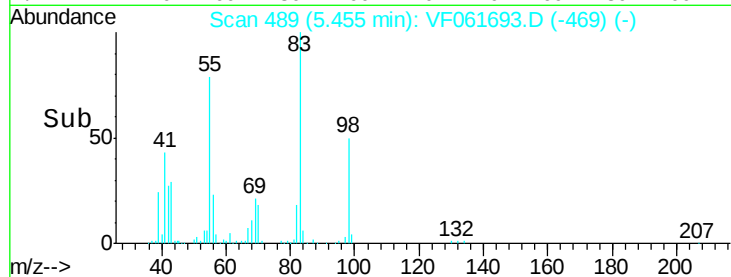
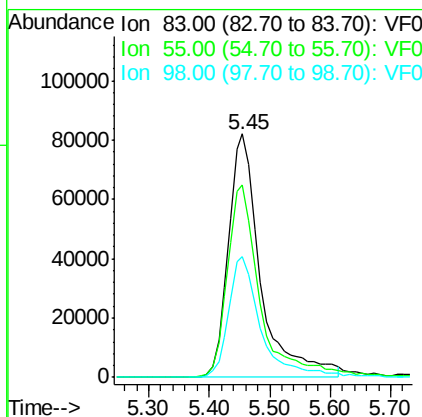
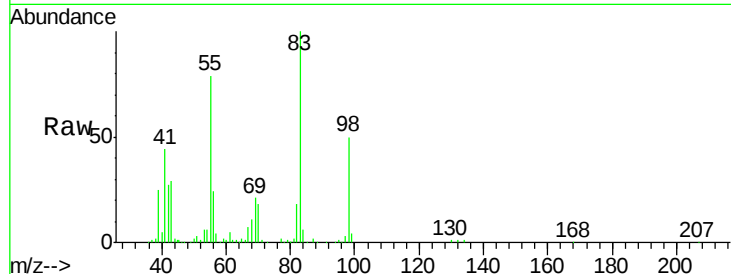
#39
Methvlcvclohexane
Concen: 52.514 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	305118		
55	78.9	66.6	99.8	
98	49.7	40.4	60.6	

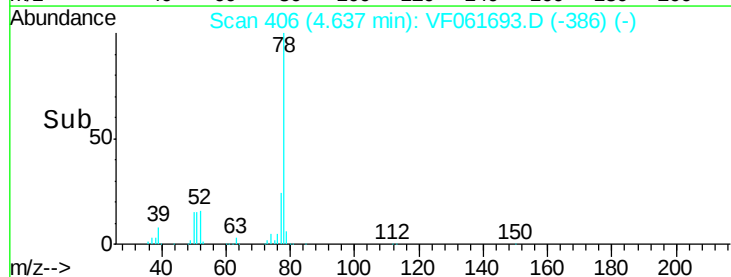
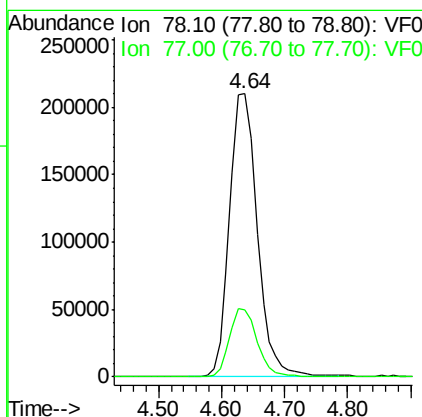
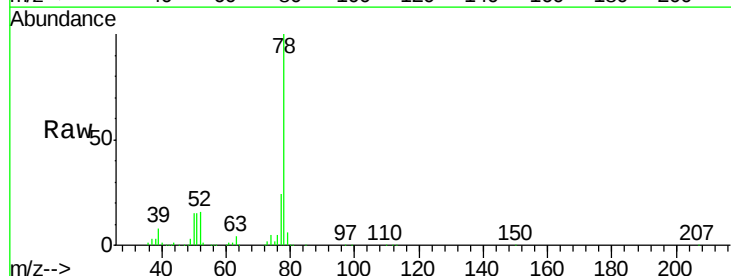
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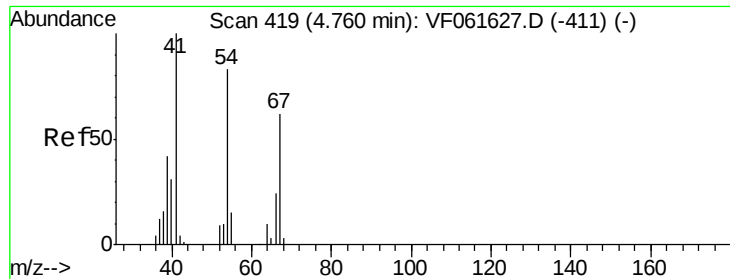
MMDadoda
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#40
Benzene
Concen: 50.186 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	644915		
77	23.9	19.0	28.6	





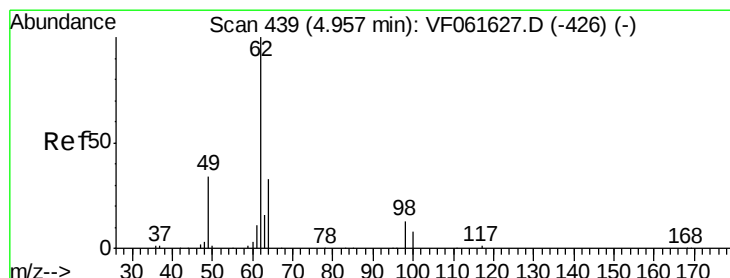
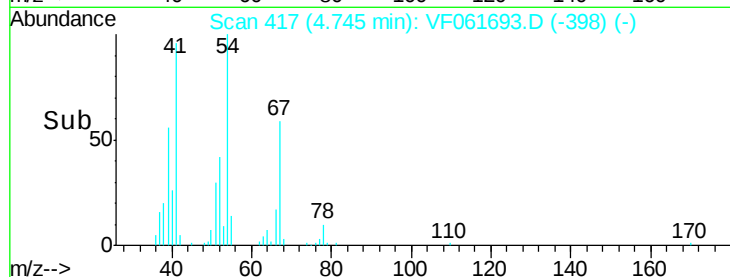
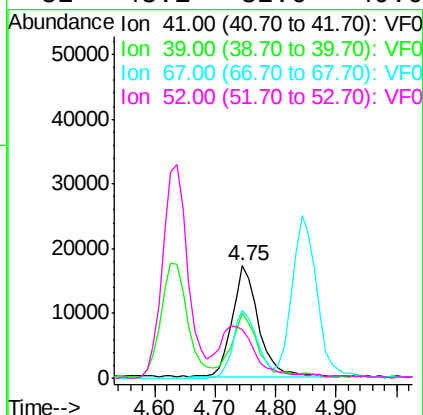
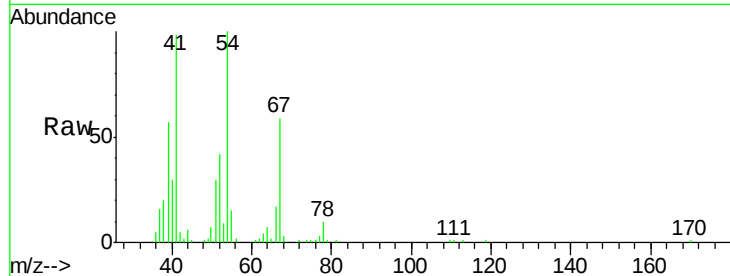
#41
Methacrylonitrile
Concen: 43.855 ug/l
RT: 4.75 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.1	45.3	67.9	
67	60.5	49.3	73.9	
52	43.1	32.6	49.0	

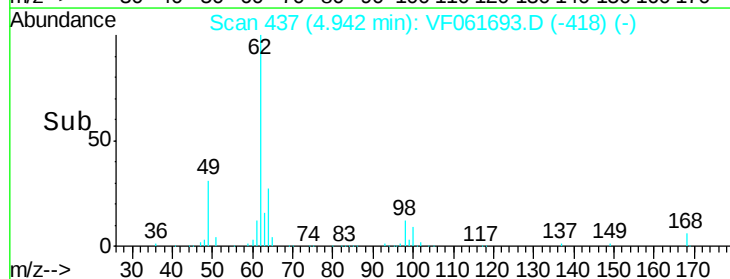
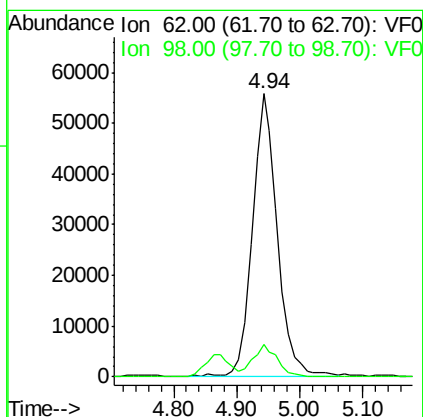
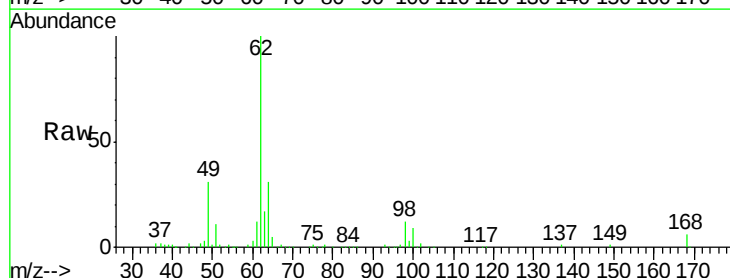
Manual Integrations
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#42
1,2-Dichloroethane
Concen: 50.248 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	11.5	0.0	26.0	





#43

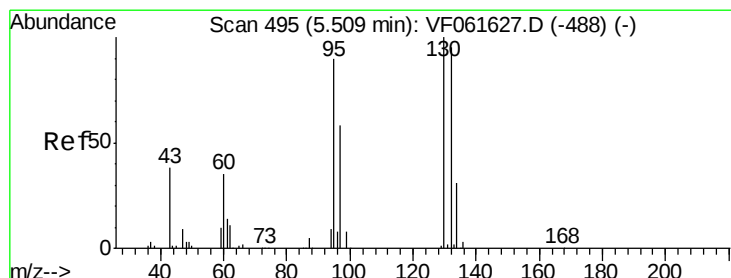
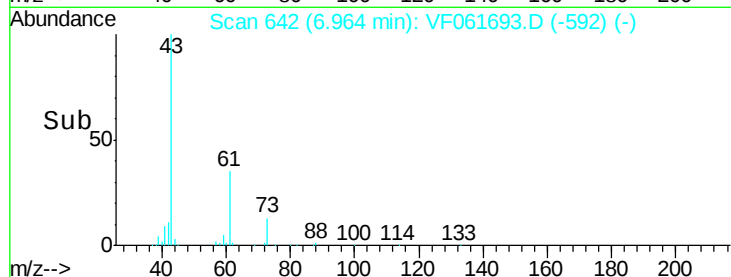
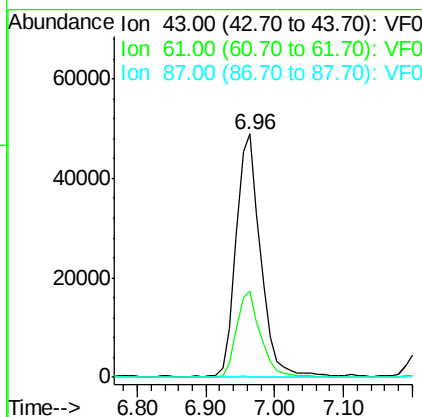
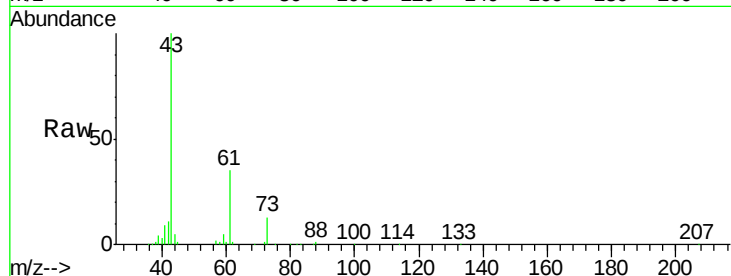
Isopropyl Acetate
 Concen: 44.387 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.2	25.8	38.6
87	0.3	0.4	0.6

Manual Integrations
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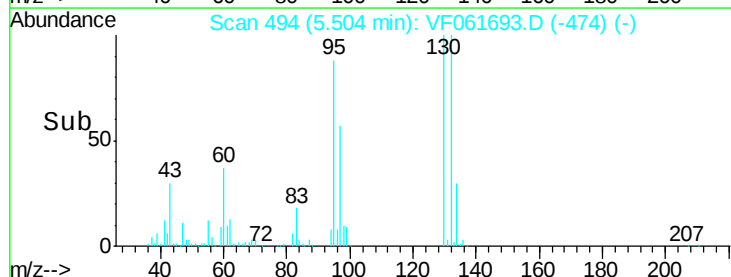
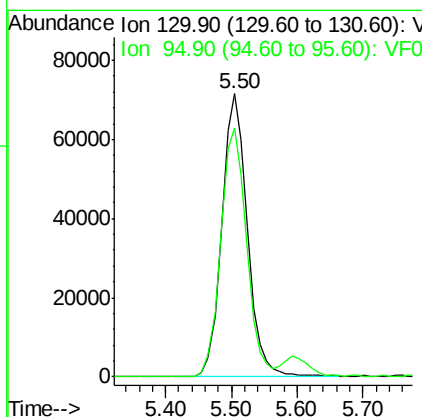
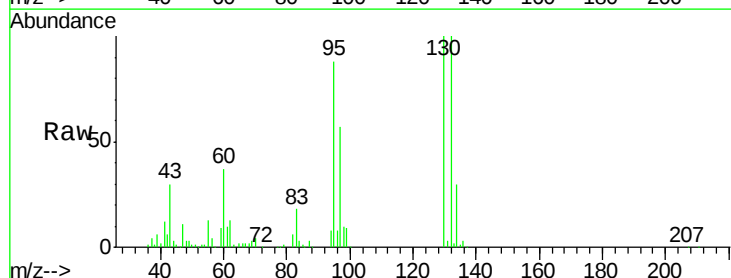
MMDadoda
 2/22/2019 12:27:33 PM

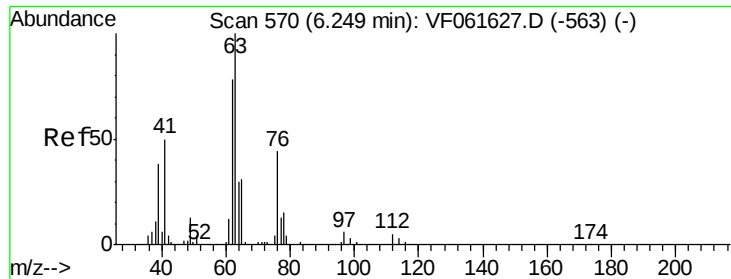


#44

Trichloroethene
 Concen: 46.720 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	87.9	0.0	179.4





#45

1,2-Dichloropropane

Concen: 50.333 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 156344

Ion Ratio Lower Upper

63 100

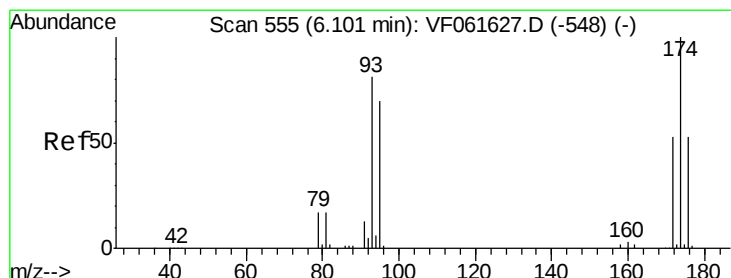
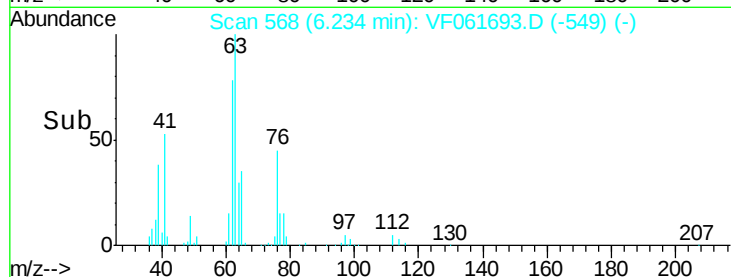
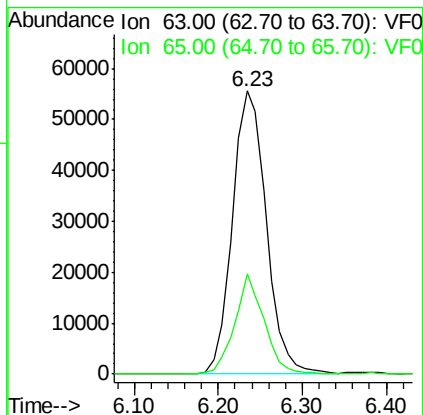
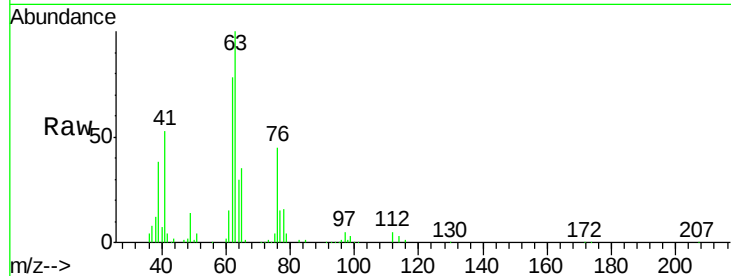
65 35.4 24.9 37.3

Manual Integrations

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2/22/2019 12:27:33 PM



#46

Dibromomethane

Concen: 48.113 ug/l

RT: 6.09 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

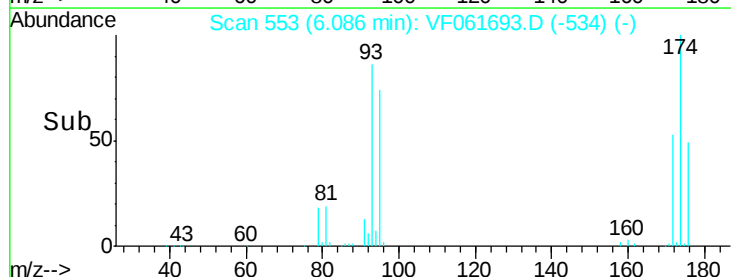
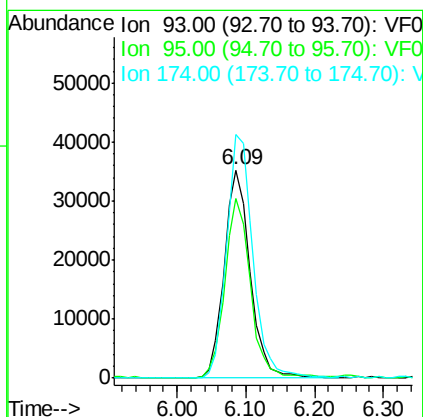
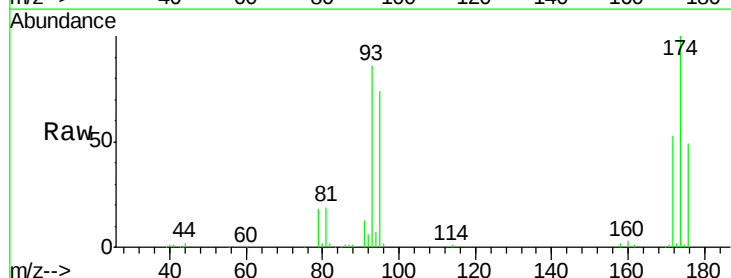
Tgt Ion: 93 Resp: 92016

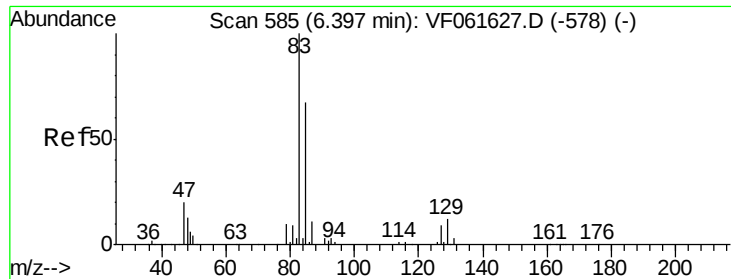
Ion Ratio Lower Upper

93 100

95 86.5 69.0 103.6

174 116.9 99.3 148.9





#47

Bromodichloromethane

Concen: 49.068 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

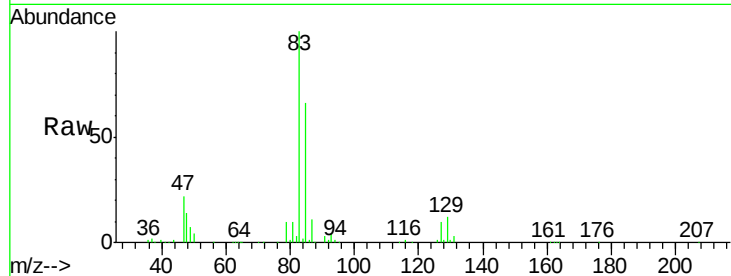
ClientSampleId :

VSTDCCC050

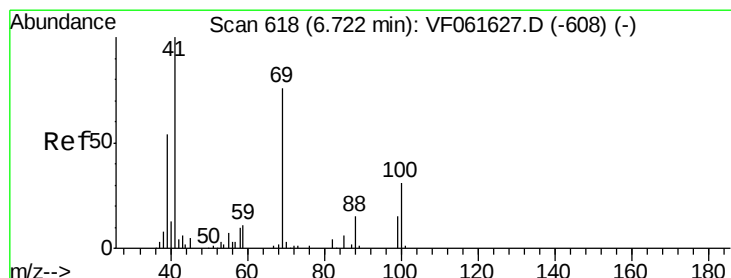
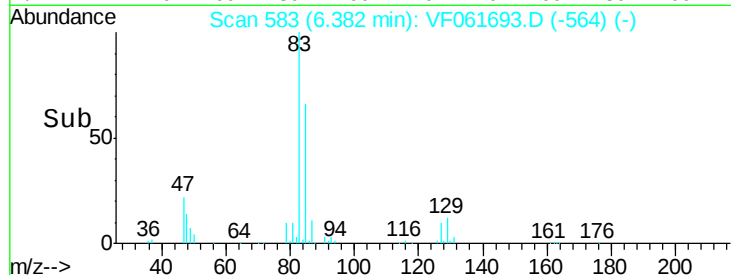
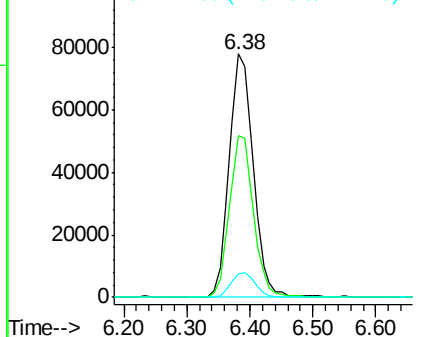
Tot Ion:	83	Resp:	205502
Ion	Ratio	Lower	Upper
83	100		
85	66.4	53.4	80.2
127	9.7	7.5	11.3

Manual Integrations
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2/22/2019 12:27:33 PM



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 47.263 ug/l

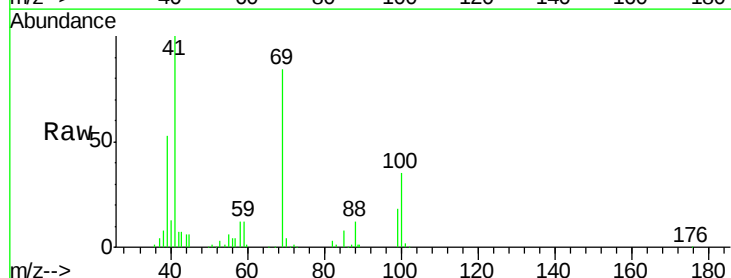
RT: 6.72 min Scan# 617

Delta R.T. -0.00 min

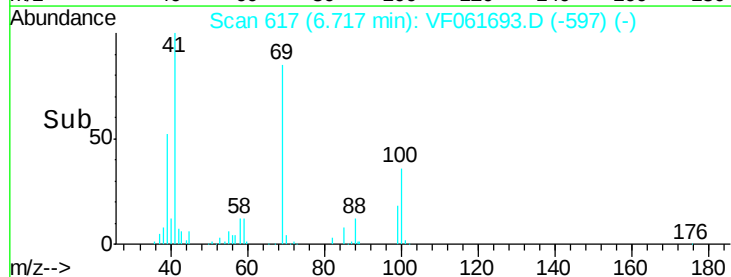
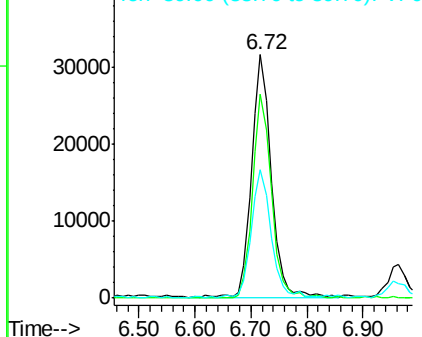
Lab File: VF061693.D

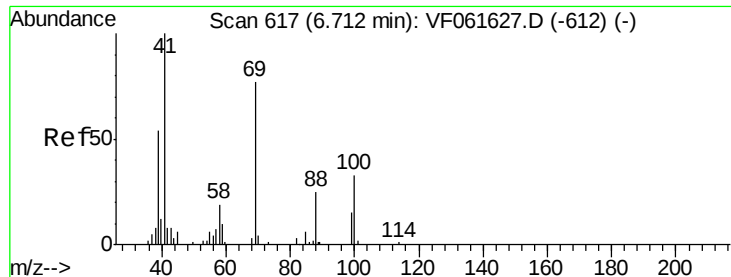
Acq: 21 Feb 2019 12:33

Tgt Ion:	41	Resp:	76824
Ion	Ratio	Lower	Upper
41	100		
69	84.0	60.4	90.6
39	52.7	43.7	65.5



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





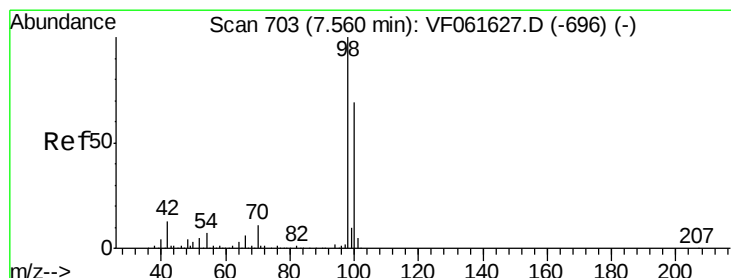
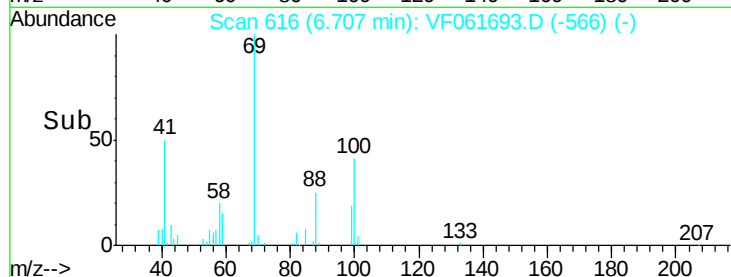
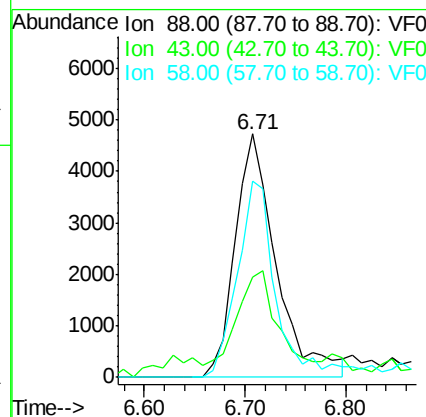
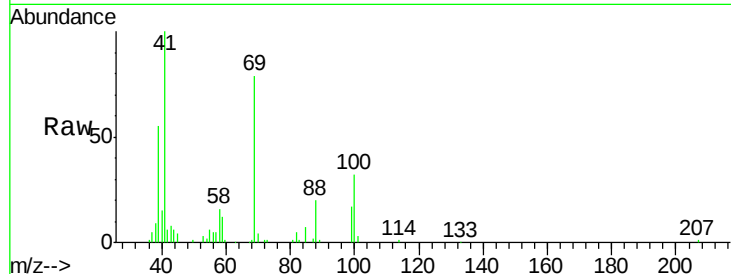
#49
1,4-Dioxane
Concen: 876.492 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100	13393		
43	41.3		32.3	48.5
58	80.6		59.4	89.2

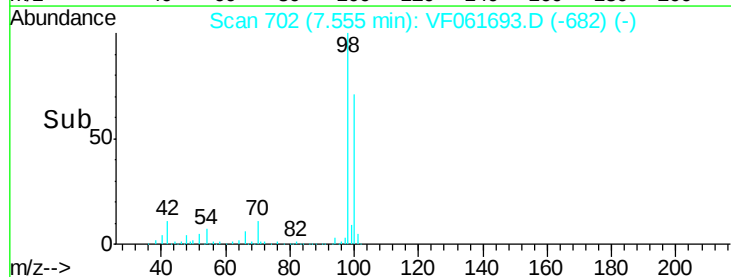
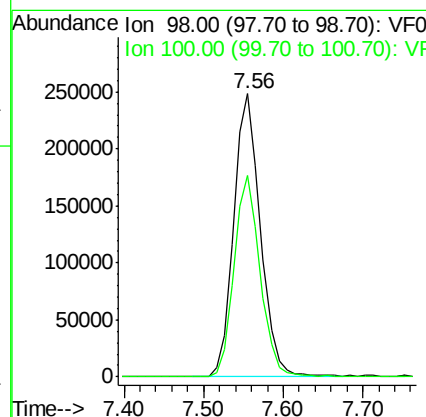
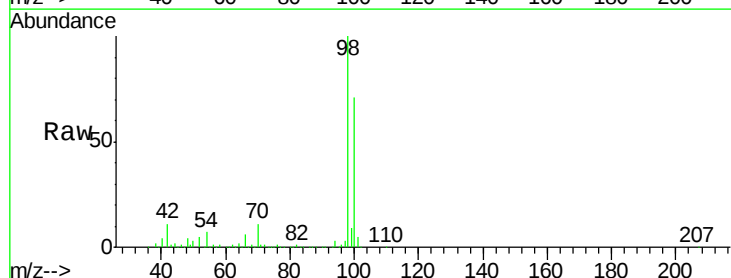
Manual Integrations
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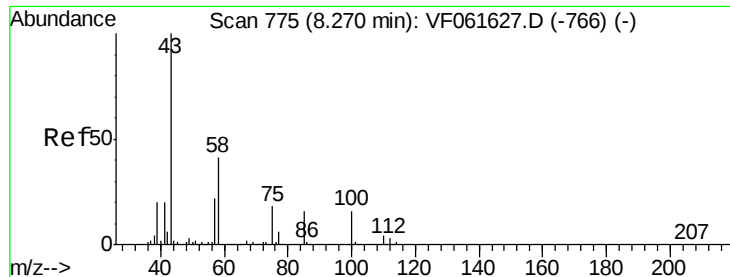
MMDadoda
2/22/2019 12:27:33 PM



#50
Toluene-d8
Concen: 54.977 ug/l
RT: 7.56 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	582055		
100	71.2		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 213.520 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 412092

Ion Ratio Lower Upper

43 100

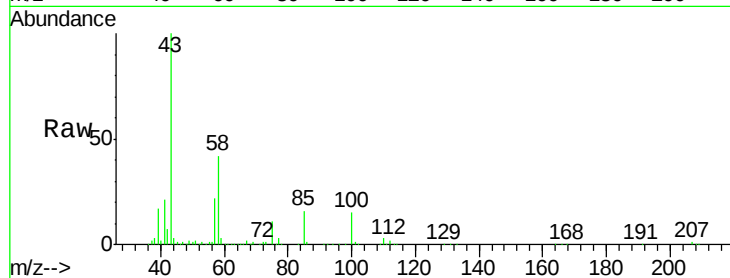
58 41.6 33.1 49.7

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2/22/2019 12:27:33 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

200000

150000

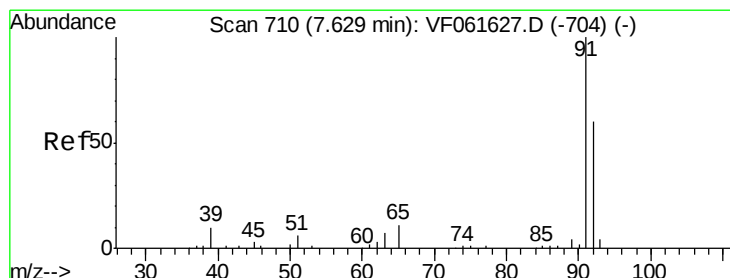
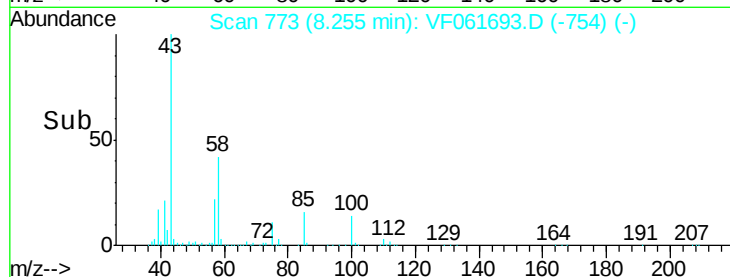
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 47.160 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.00 min

Lab File: VF061693.D

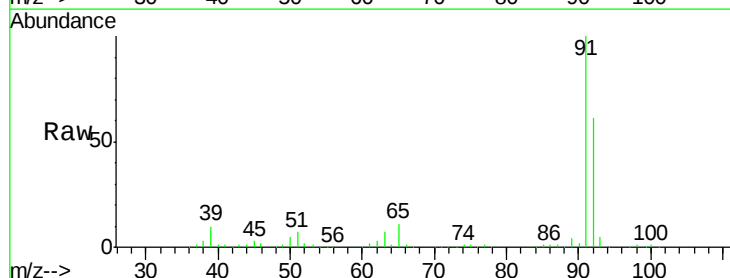
Acq: 21 Feb 2019 12:33

Tgt Ion: 92 Resp: 367544

Ion Ratio Lower Upper

92 100

91 164.9 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

300000

250000

200000

150000

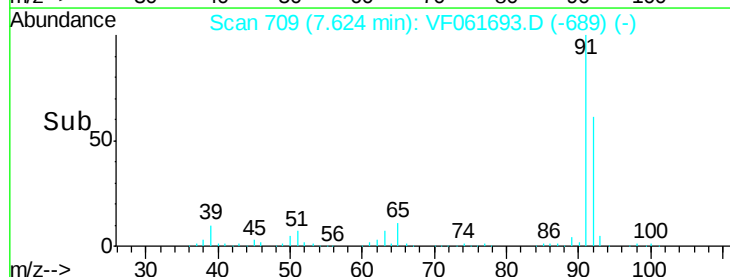
100000

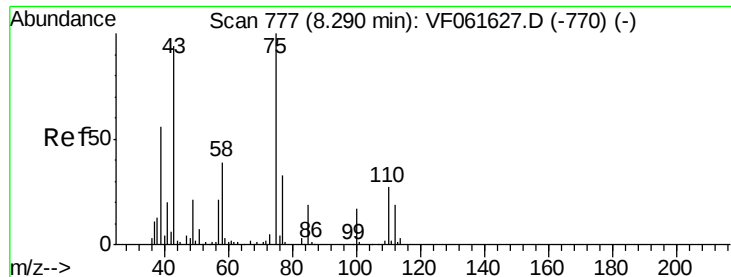
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 50.586 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tot Ion: 75 Resp: 176325

Ion Ratio Lower Upper

75 100

77 31.6 26.2 39.2

Instrument :

MSVOA_F

ClientSampleId :

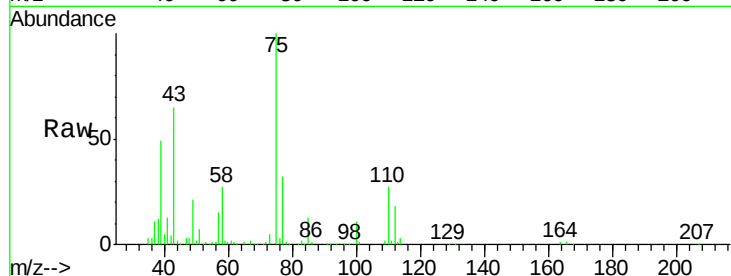
VSTDCCC050

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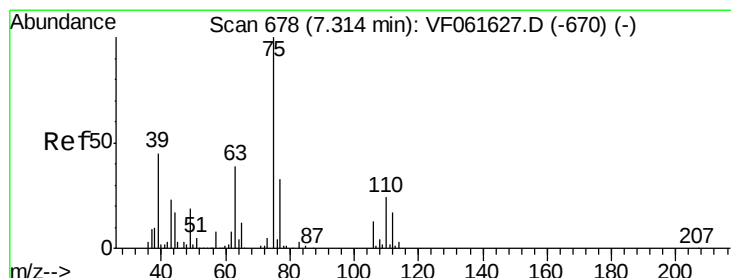
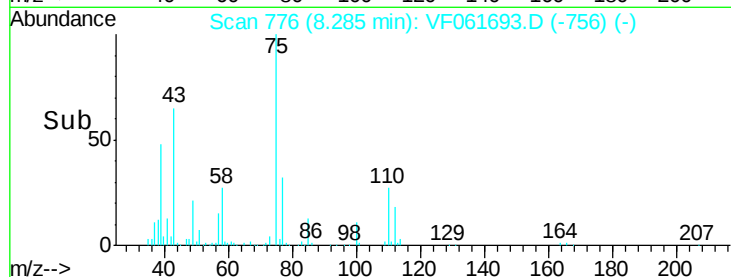
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.29

8.20 8.30 8.40

Time-->



#54

cis-1,3-Dichloropropene

Concen: 51.834 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

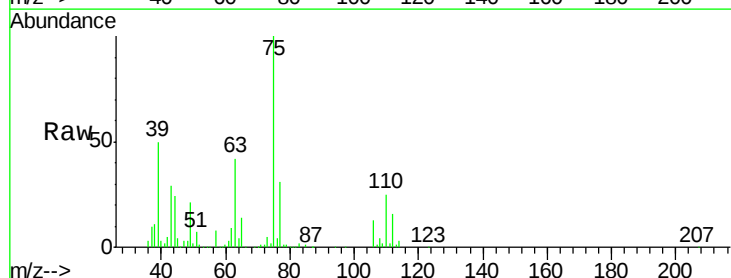
Tgt Ion: 75 Resp: 240655

Ion Ratio Lower Upper

75 100

77 31.1 26.4 39.6

39 49.7 36.0 54.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

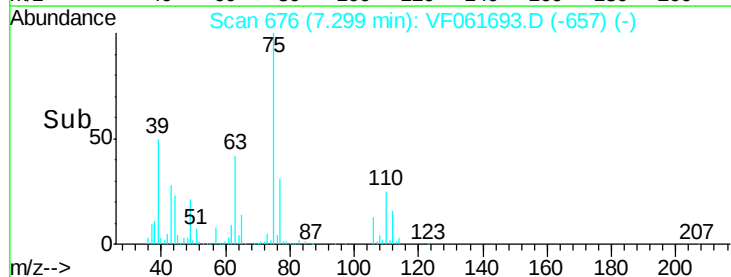
Ion 77.00 (76.70 to 77.70): VF0

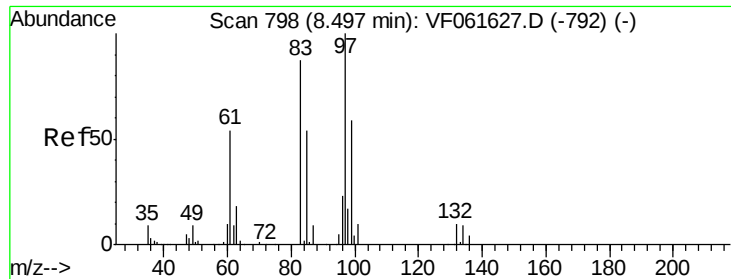
Ion 39.00 (38.70 to 39.70): VF0

7.30

7.20 7.30 7.40

Time-->





#55

1,1,2-Trichloroethane

Concen: 47.716 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

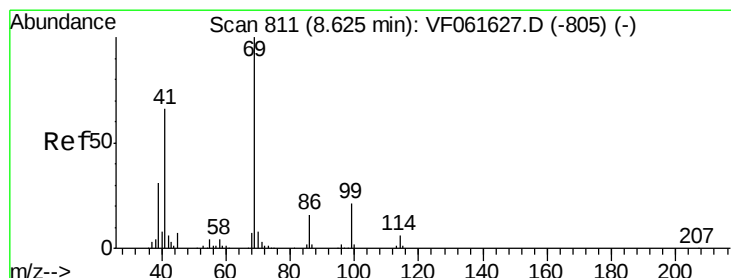
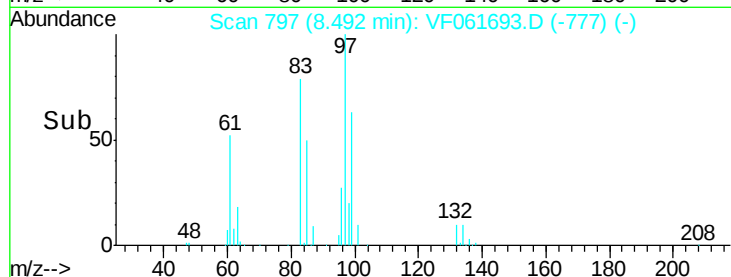
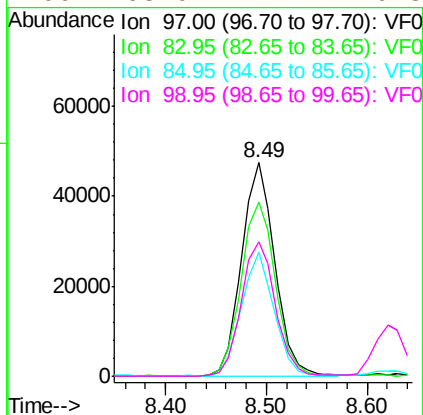
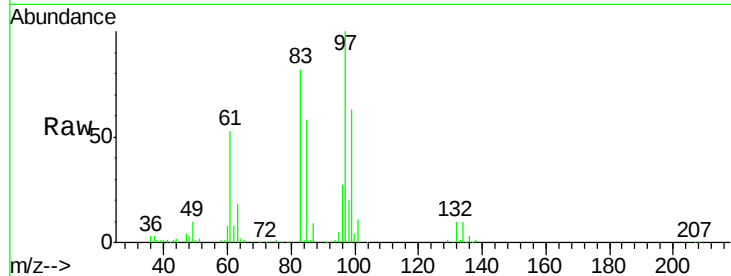
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		109261		
83	81.7	69.2	103.8		
85	58.4	43.0	64.4		
99	63.0	47.2	70.8		

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#56

Ethyl methacrylate

Concen: 47.182 ug/l

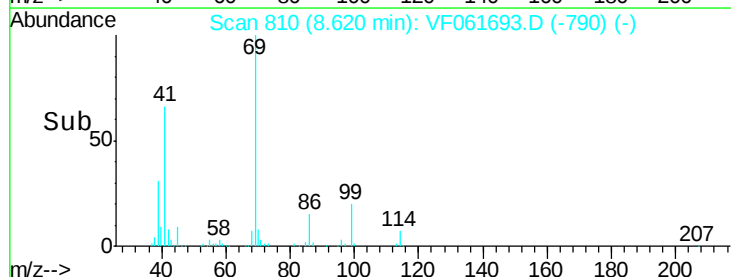
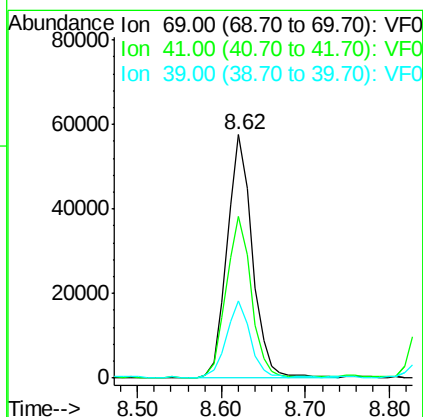
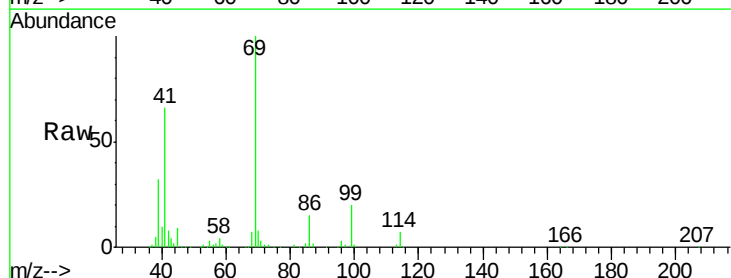
RT: 8.62 min Scan# 810

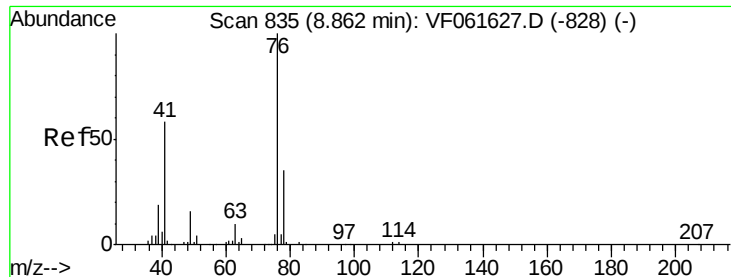
Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		120285		
41	66.4	52.9	79.3		
39	31.7	24.5	36.7		





#57

1,3-Dichloropropane

Concen: 49.003 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 187289

Ion Ratio Lower Upper

76 100

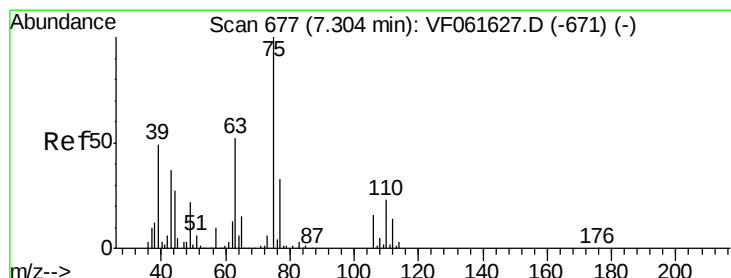
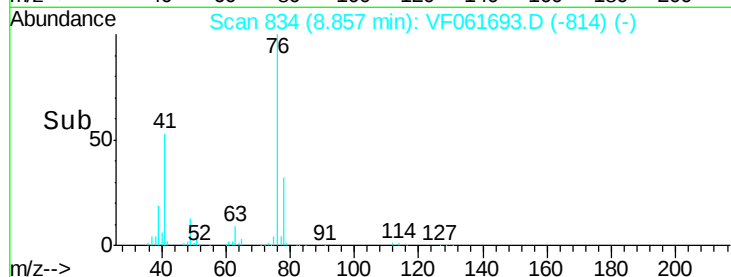
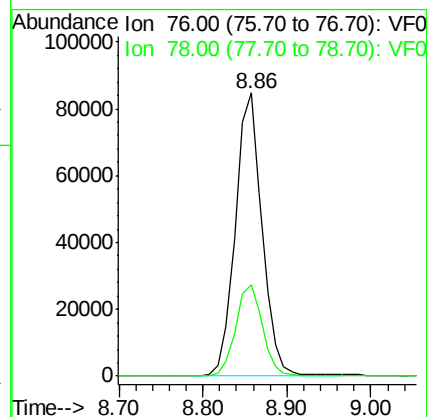
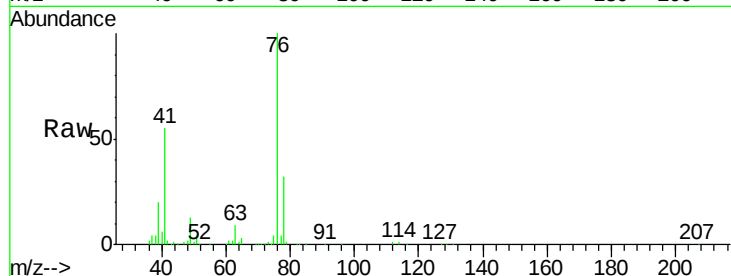
78 32.1 27.8 41.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 216.445 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061693.D

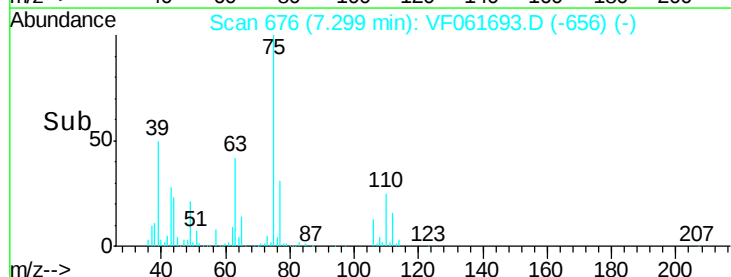
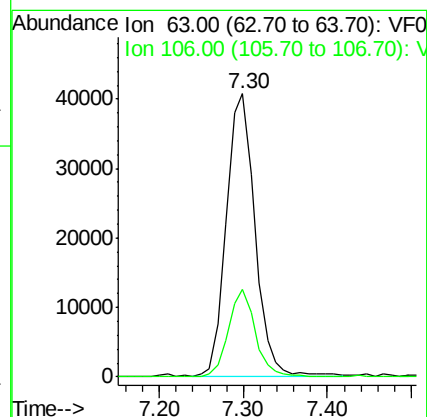
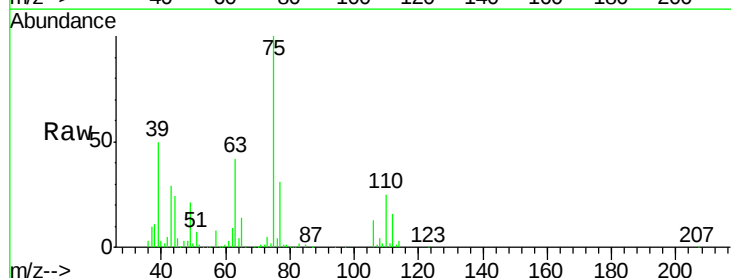
Acq: 21 Feb 2019 12:33

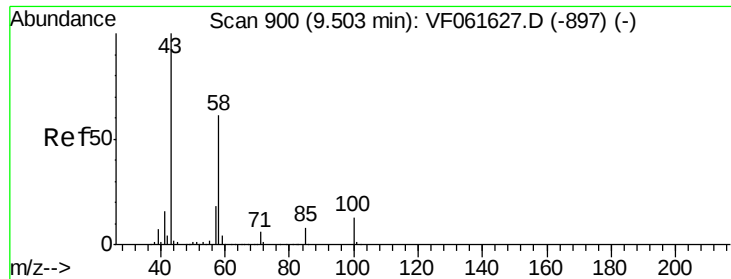
Tgt Ion: 63 Resp: 95206

Ion Ratio Lower Upper

63 100

106 30.8 24.6 36.8





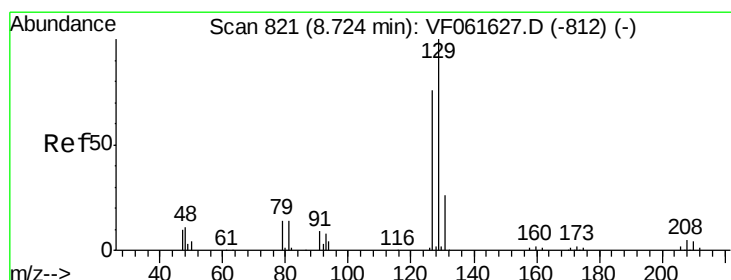
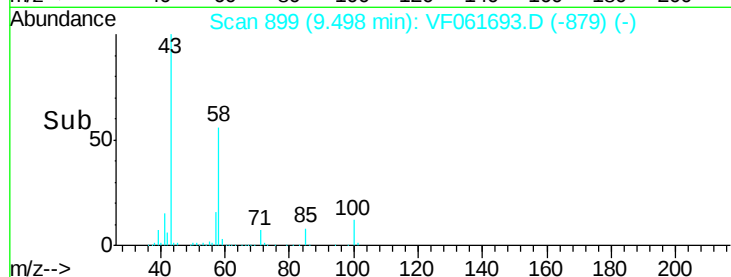
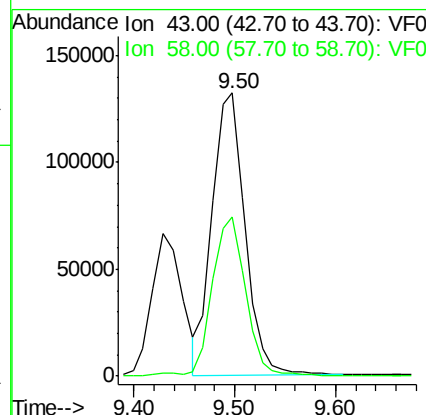
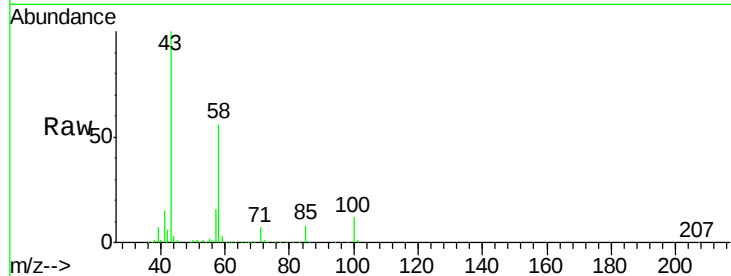
#59
2-Hexanone
Concen: 222.894 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	Resp	301547
Ion Ratio	100	Lower	Upper
43	100		
58	56.0	28.5	85.5

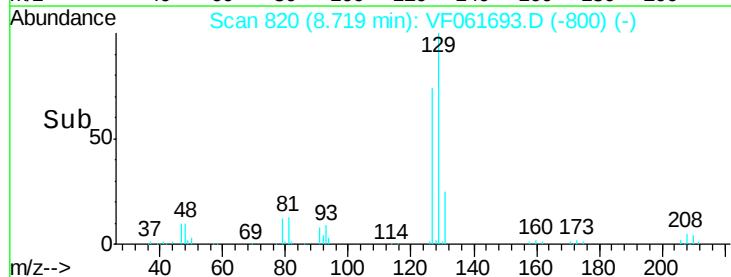
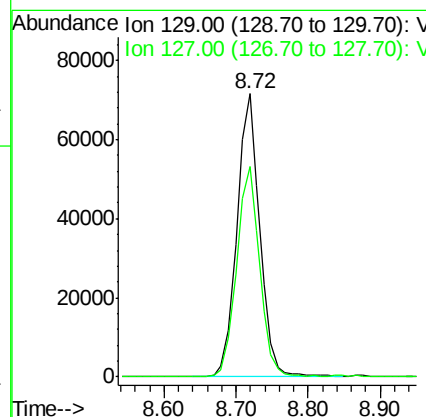
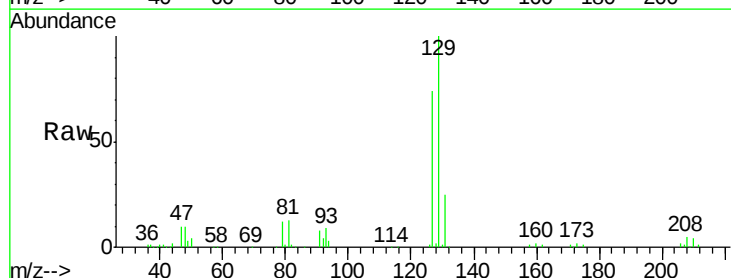
Manual Integrations
APPROVED

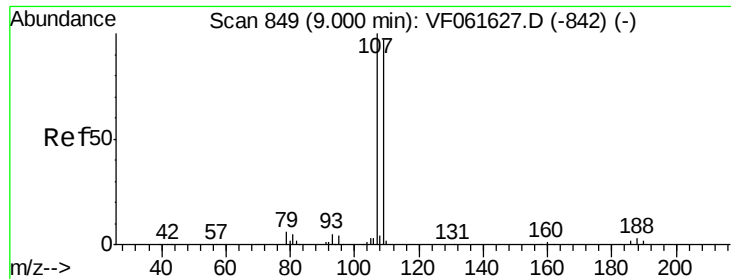
MMDadoda
2/22/2019 12:27:33 PM



#60
Dibromochloromethane
Concen: 49.557 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	129	Resp	157944
Ion Ratio	100	Lower	Upper
129	100		
127	74.5	37.8	113.4





#61

1,2-Dibromoethane

Concen: 46.118 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 114540

Ion Ratio Lower Upper

107 100

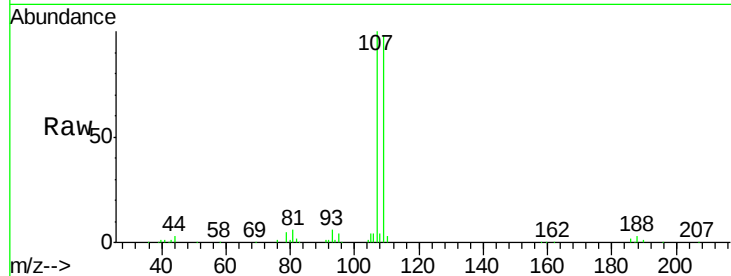
109 98.1 77.4 116.0

Manual Integrations

APPROVED

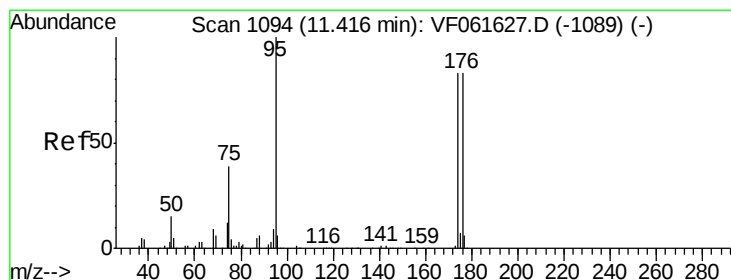
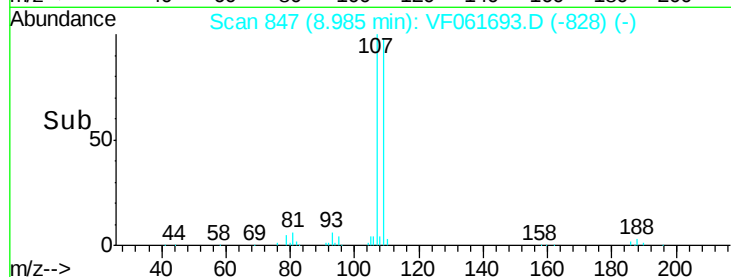
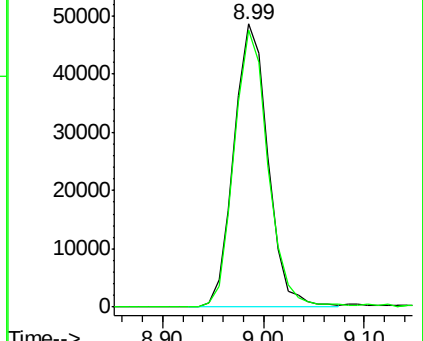
MMDadoda

2/22/2019 12:27:33 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 51.777 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

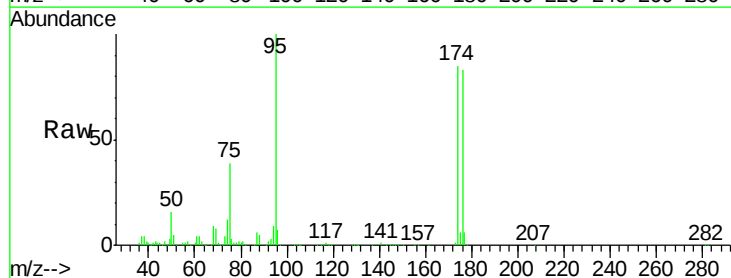
Tgt Ion: 95 Resp: 221801

Ion Ratio Lower Upper

95 100

174 84.7 0.0 165.8

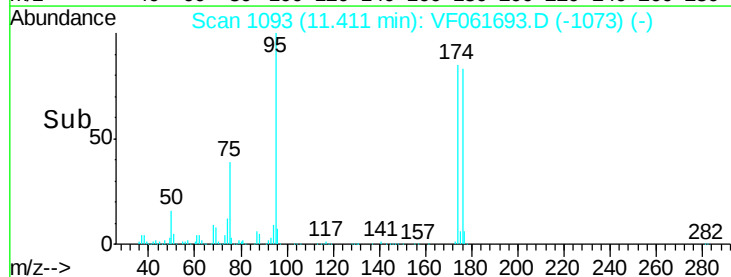
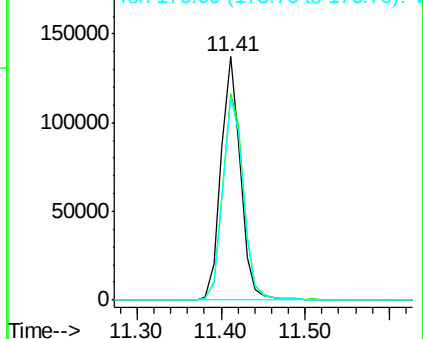
176 83.3 0.0 167.0

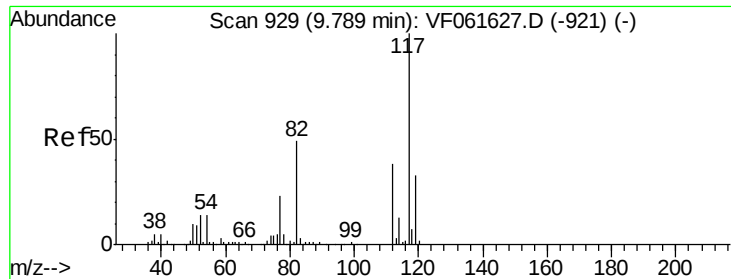


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





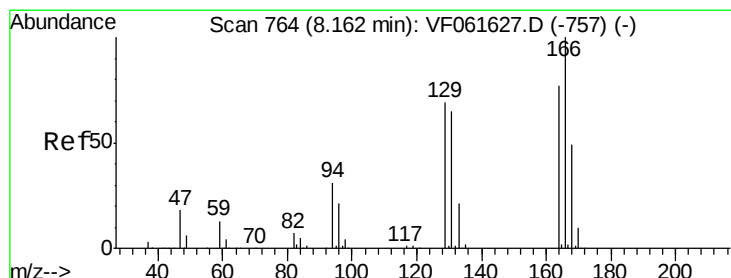
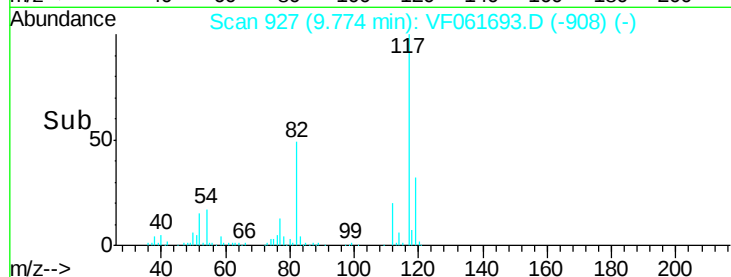
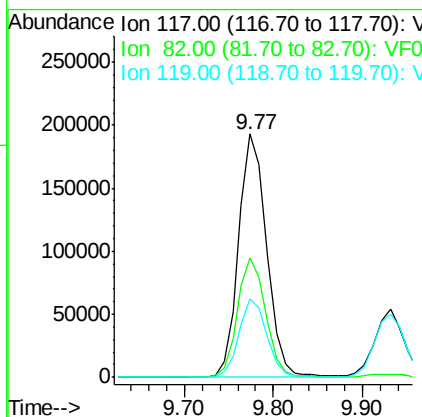
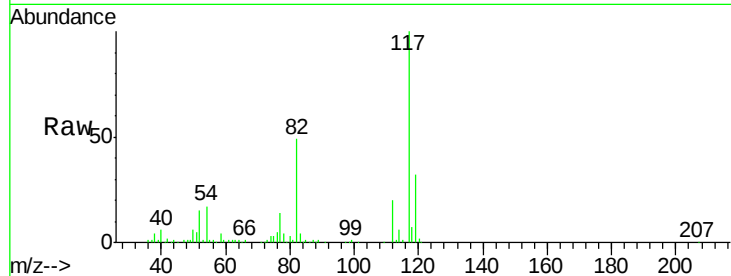
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.3	39.3	58.9
119	32.1	26.6	40.0

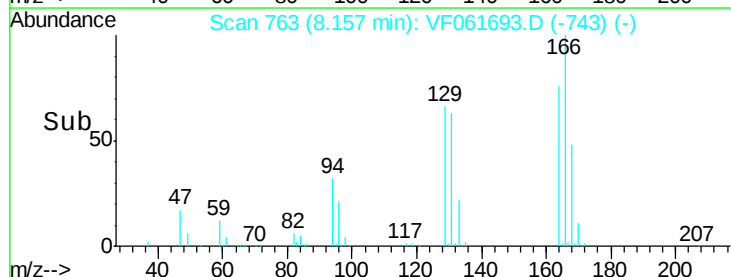
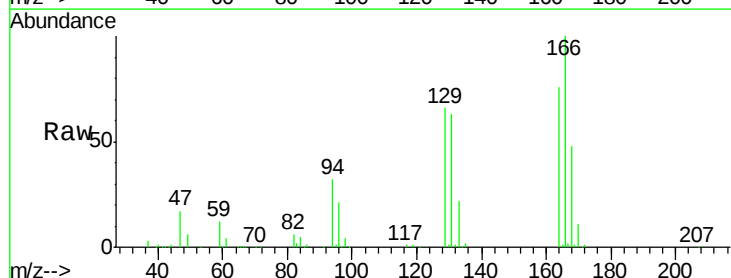
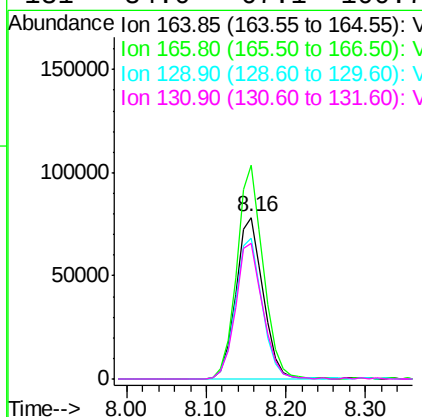
Manual Integrations
APPROVED

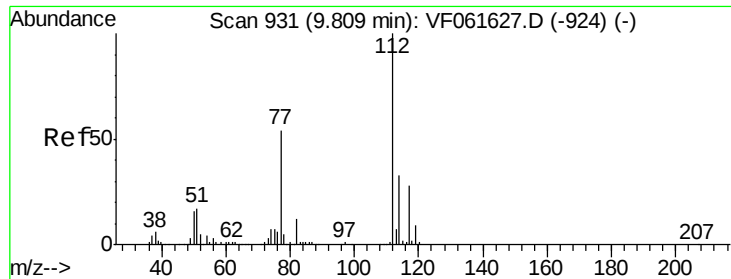
MMDadoda
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#64
Tetrachloroethene
Concen: 53.232 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.2	103.9	155.9
129	87.4	71.3	106.9
131	84.0	67.1	100.7





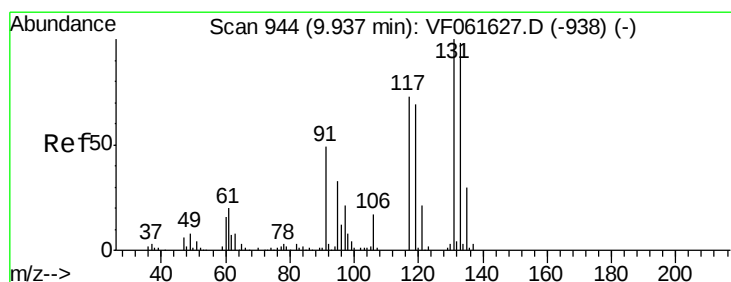
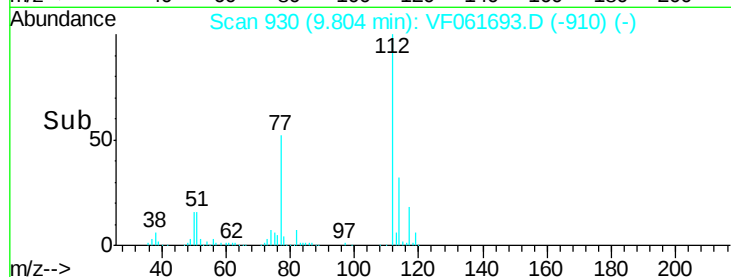
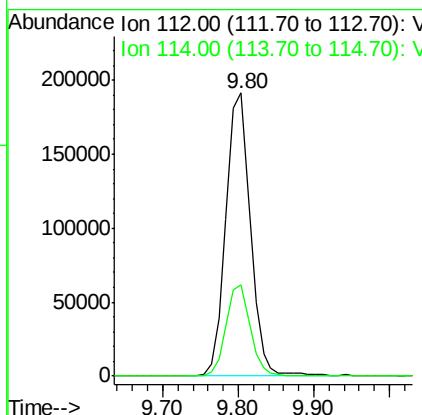
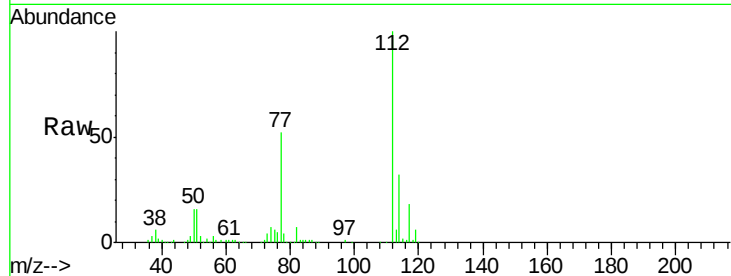
#65
Chlorobenzene
Concen: 50.187 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2

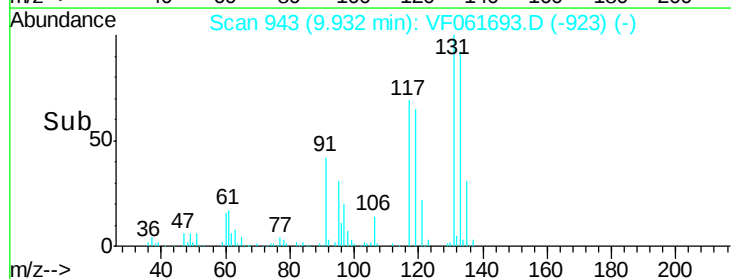
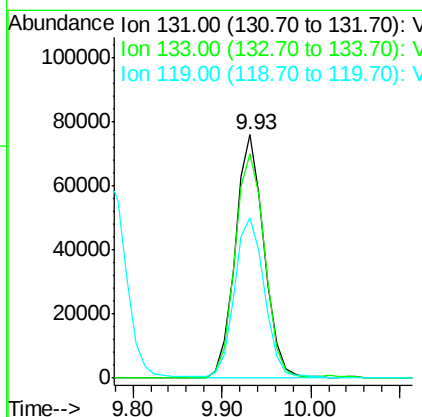
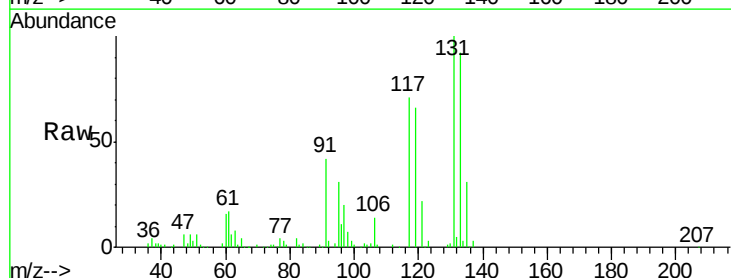
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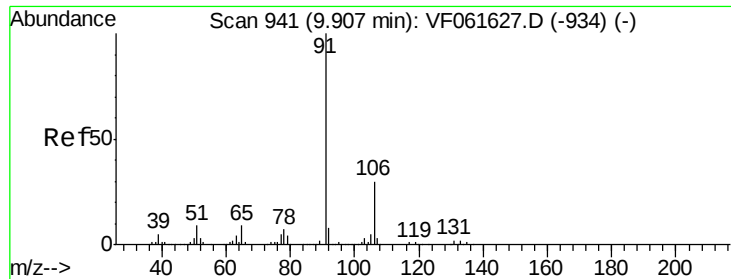
MMDadoda
2/22/2019 12:27:33 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 51.039 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.2	48.9	146.6
119	65.9	34.8	104.3





#67

Ethyl Benzene

Concen: 52.156 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 745306

Ion Ratio Lower Upper

91 100

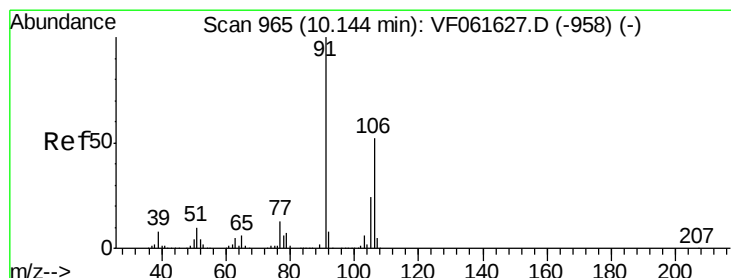
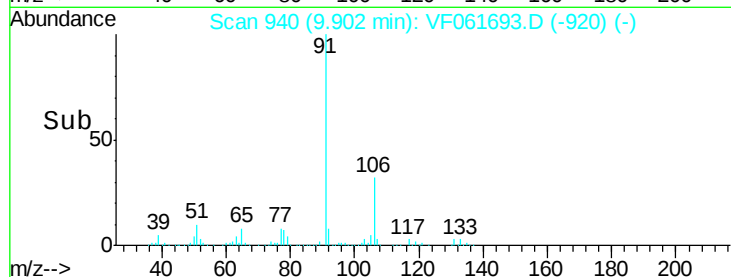
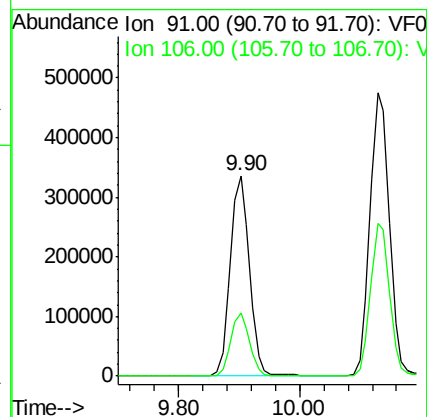
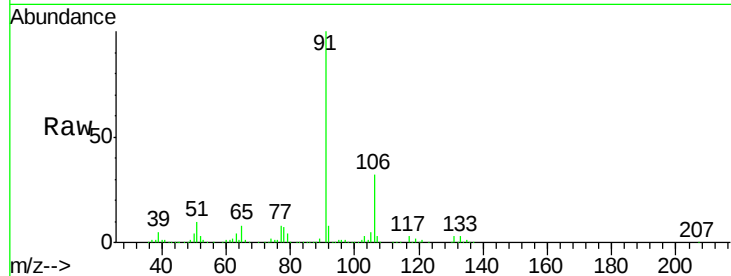
106 31.7 24.1 36.1

Manual Integrations

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2/22/2019 12:27:33 PM



#68

m/p-Xylenes

Concen: 104.286 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061693.D

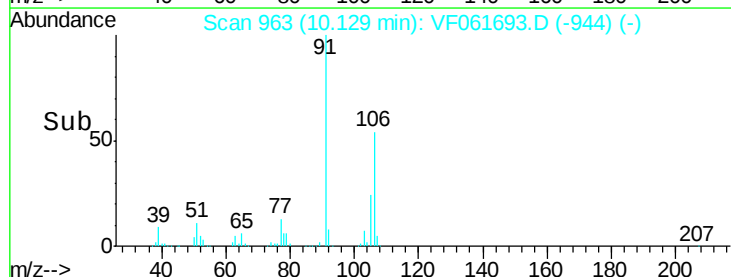
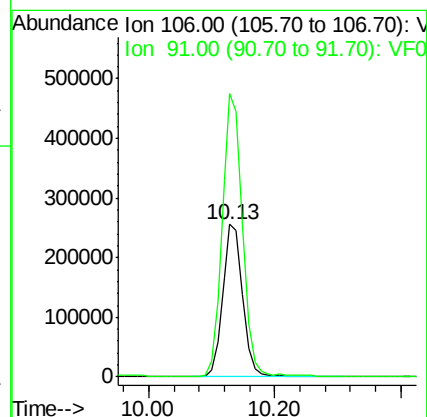
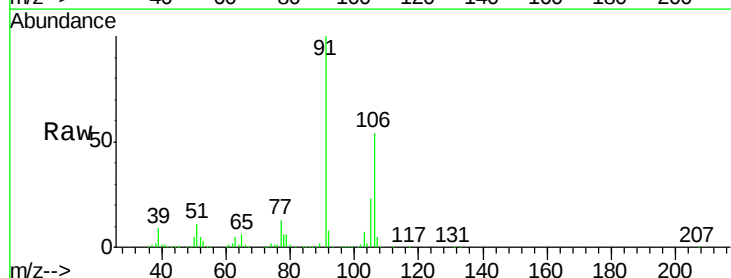
Acq: 21 Feb 2019 12:33

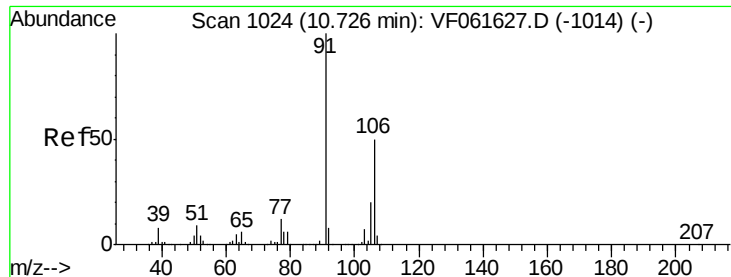
Tgt Ion: 106 Resp: 570331

Ion Ratio Lower Upper

106 100

91 185.8 153.0 229.6





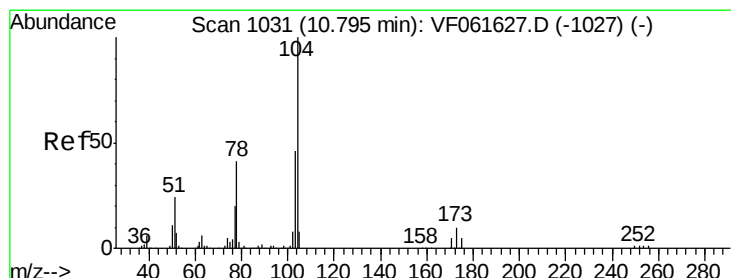
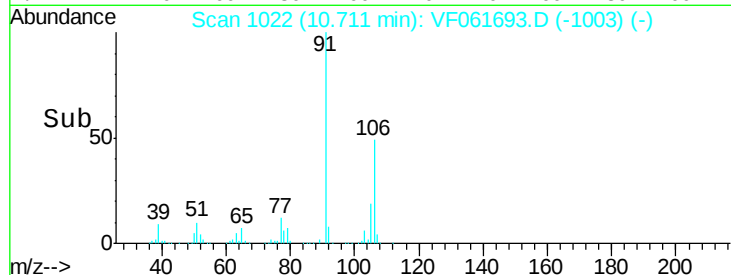
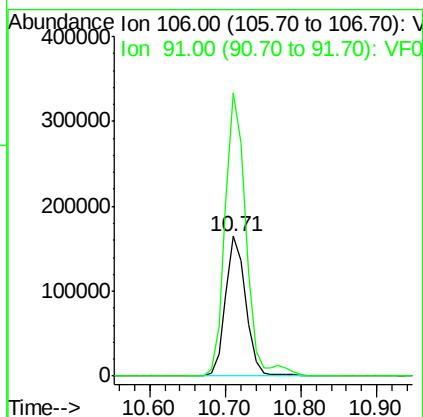
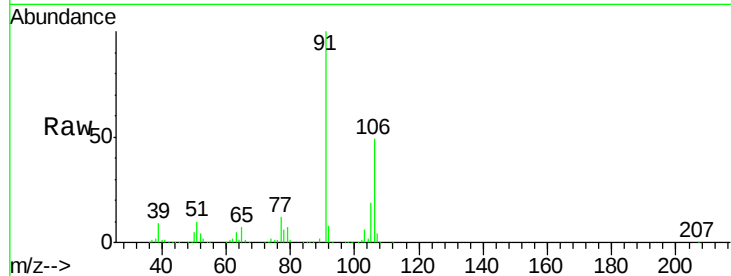
#69
o-Xylene
Concen: 52.015 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	202.5	100.1	303537	300.1	

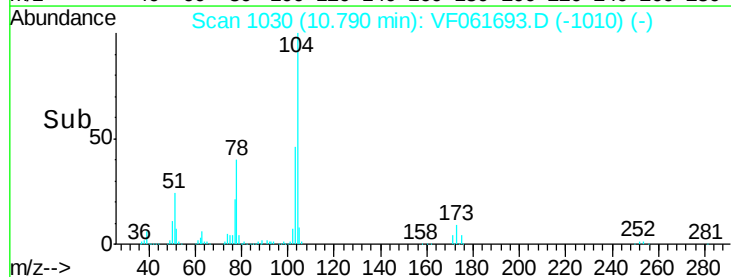
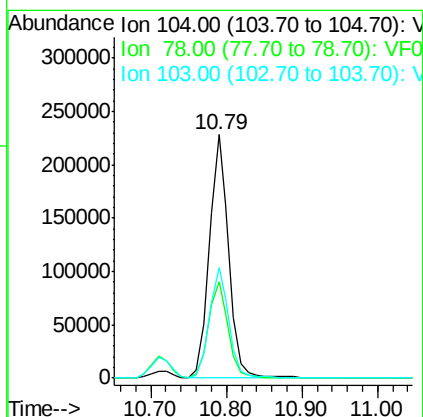
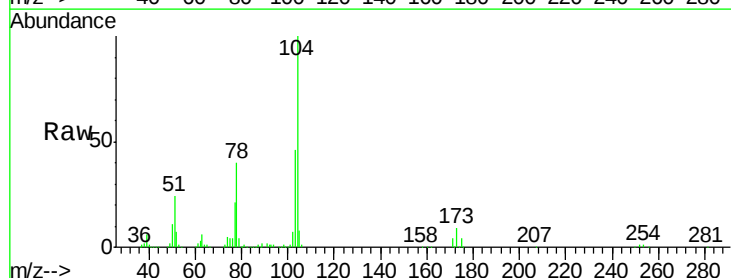
Manual Integrations
APPROVED

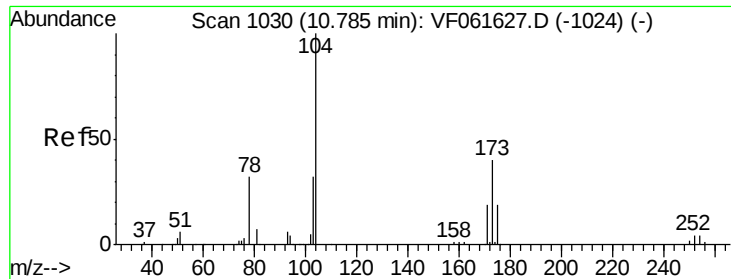
MMDadoda
2/22/2019 12:27:33 PM



#70
Styrene
Concen: 49.579 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	39.6	33.2	409297	49.8	
103	45.5	37.2		55.8	





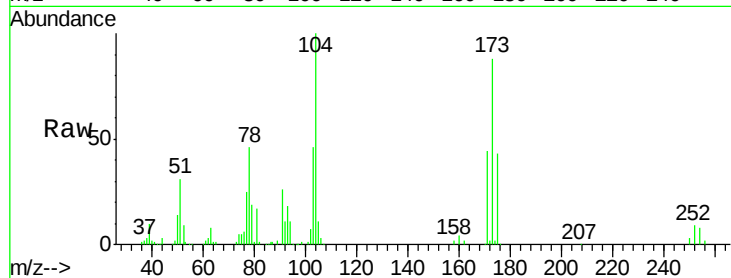
#71
Bromoform
Concen: 46.590 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100		85186		
175	49.3	24.0	72.0		
254	9.2	8.2	12.2		

Manual Integrations
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2/22/2019 12:27:33 PM

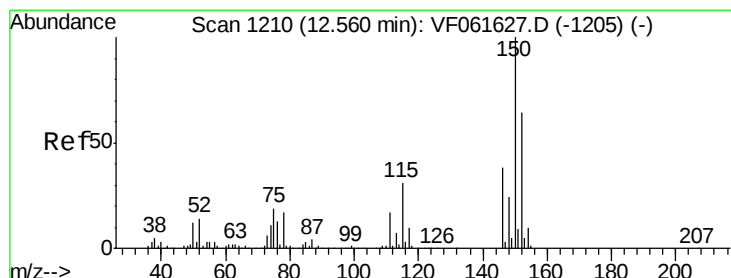
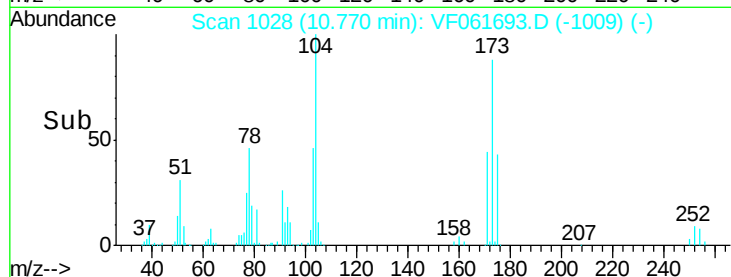
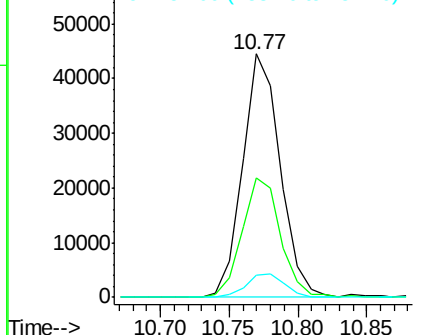


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

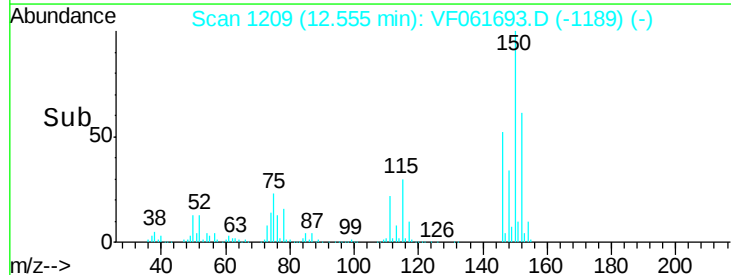
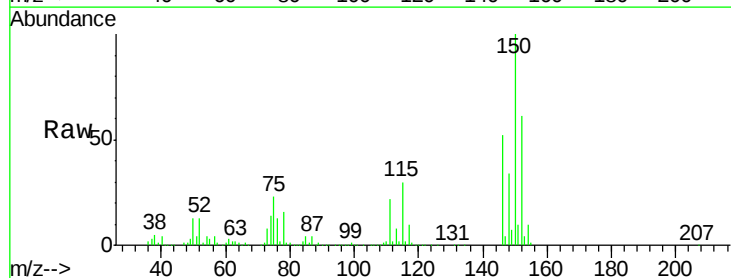
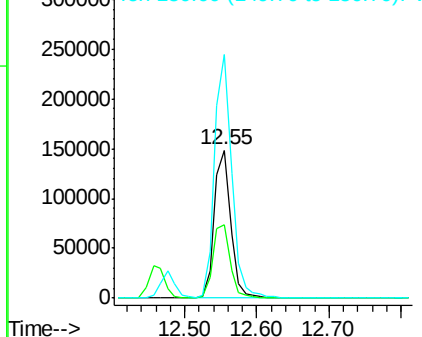
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100		232728		
115	49.3	24.3	72.8		
150	164.3	0.0	312.0		

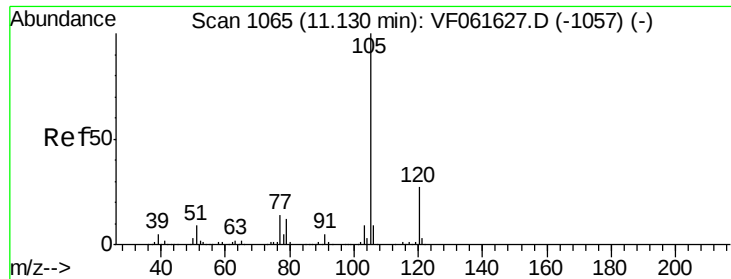
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 49.013 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 812135

Ion Ratio Lower Upper

105 100

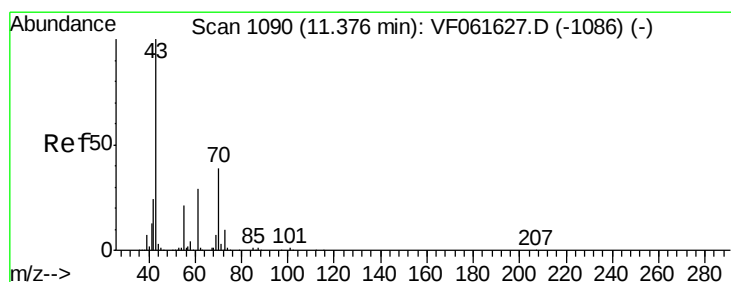
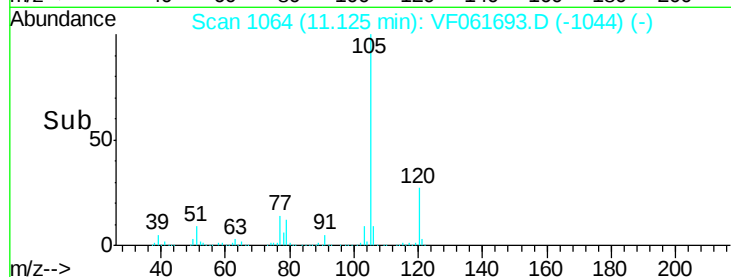
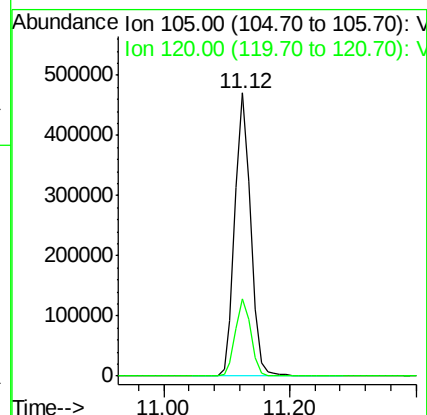
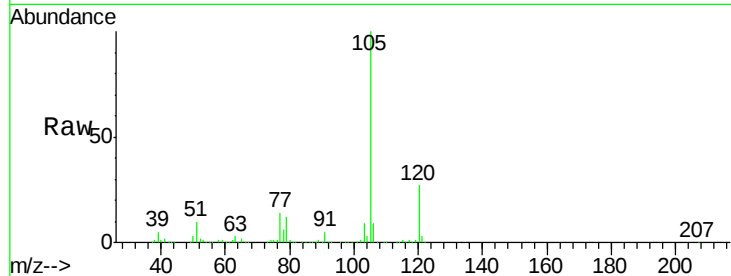
120 27.1 13.4 40.1

Manual Integrations

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2/22/2019 12:27:33 PM



#74

N-ethyl acetate

Concen: 46.032 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion: 43 Resp: 183076

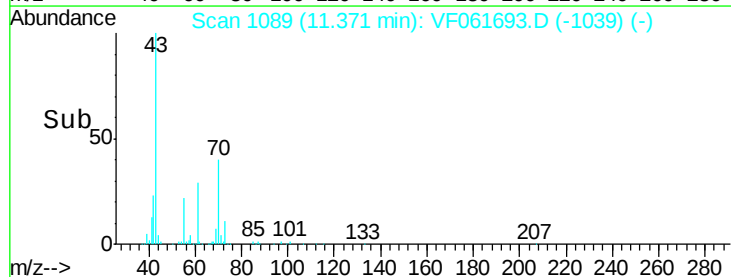
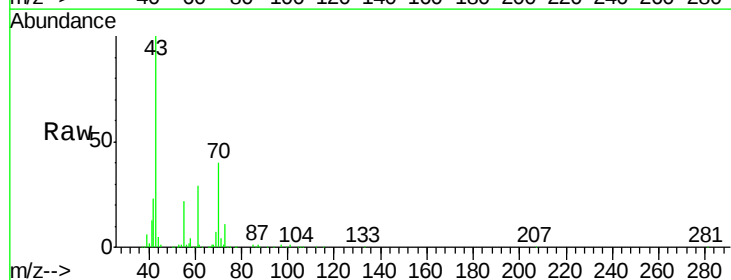
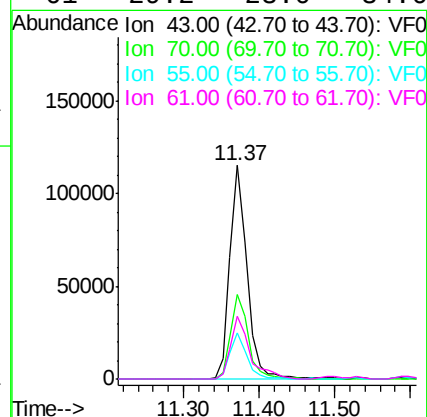
Ion Ratio Lower Upper

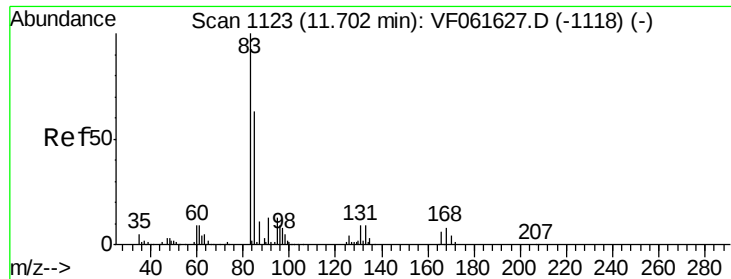
43 100

70 39.7 31.5 47.3

55 21.7 16.7 25.1

61 29.2 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 44.204 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

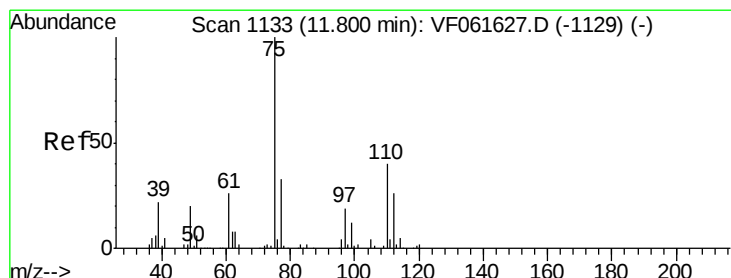
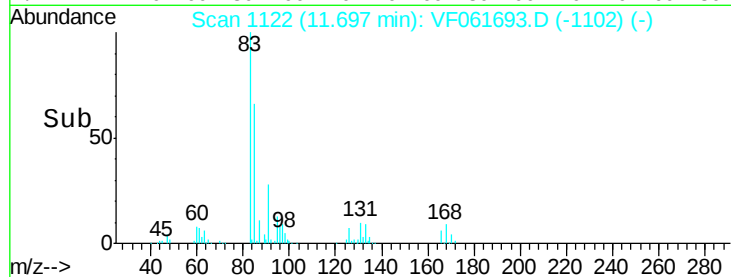
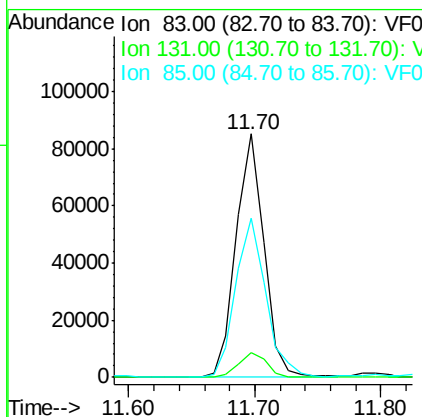
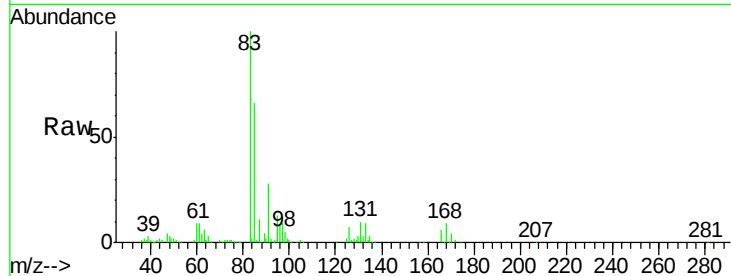
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	131221
Ion Ratio	Lower	Upper	
83	100		
131	10.2	4.4	13.2
85	65.6	31.5	94.5

Manual Integrations
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2/22/2019 12:27:33 PM



#76

1,2,3-Trichloropropane

Concen: 43.221 ug/l

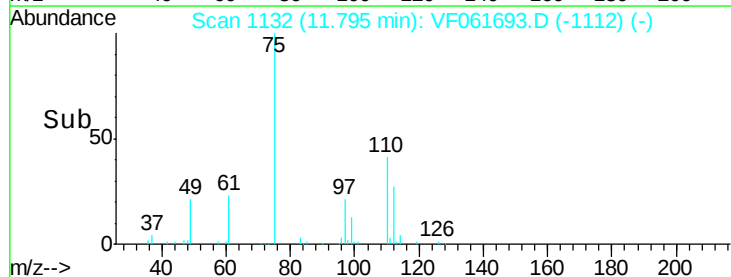
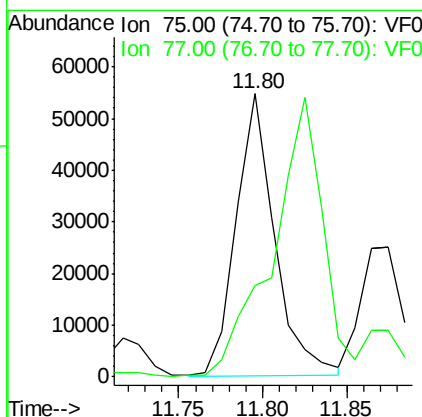
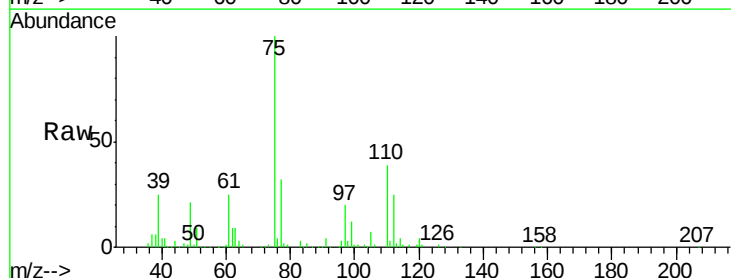
RT: 11.80 min Scan# 1132

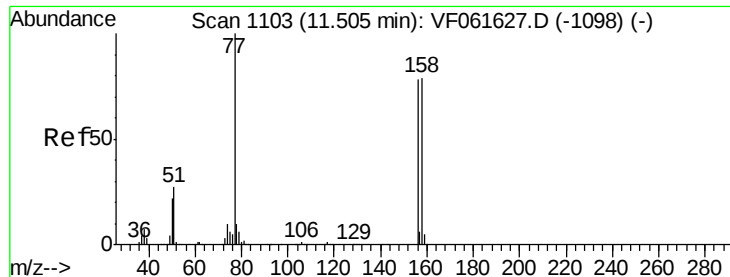
Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion:	75	Resp:	87232
Ion Ratio	Lower	Upper	
75	100		
77	32.2	16.6	49.7





#77

Bromobenzene

Concen: 49.342 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

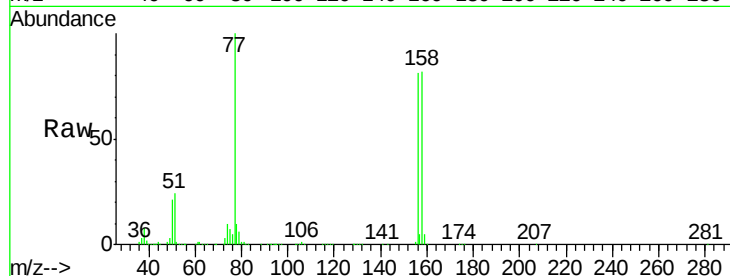
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	201981
Ion Ratio	Lower	Upper	
156	100		
77	123.1	64.3	192.7
158	100.8	50.9	152.7

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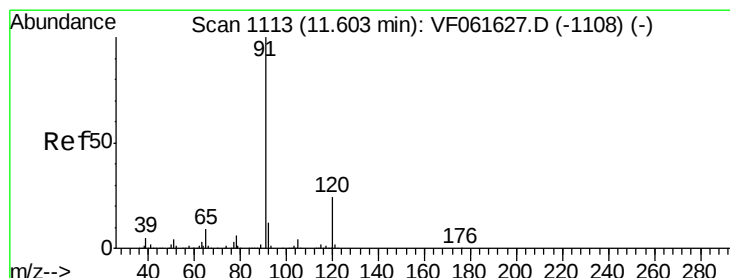
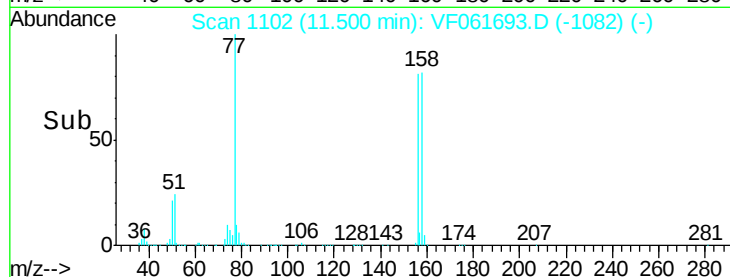
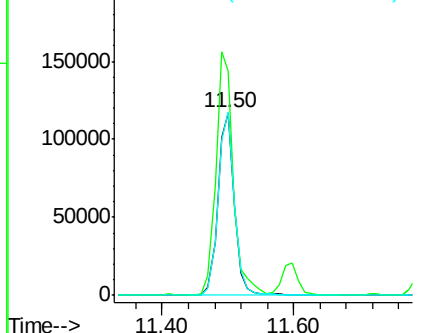
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 49.653 ug/l

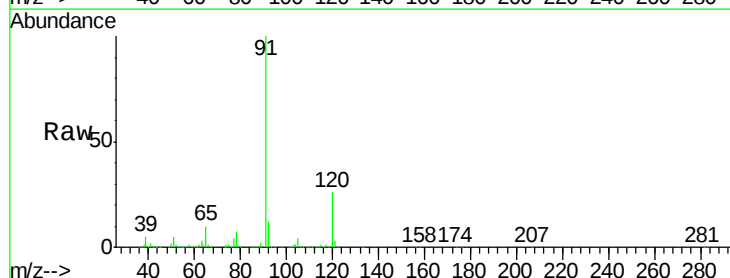
RT: 11.60 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061693.D

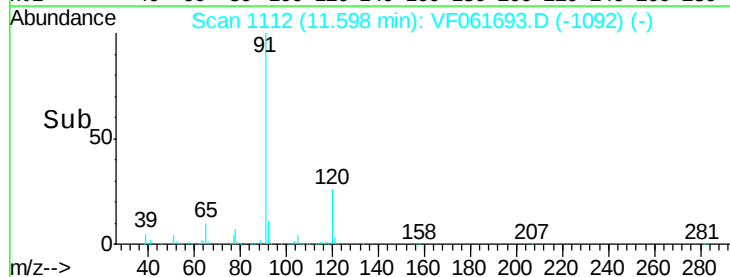
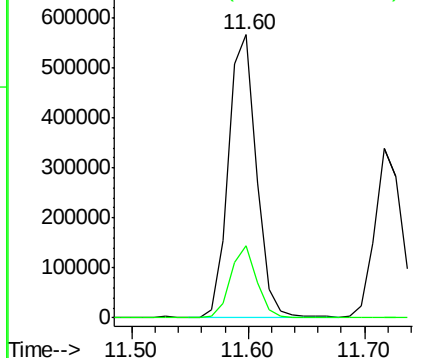
Acq: 21 Feb 2019 12:33

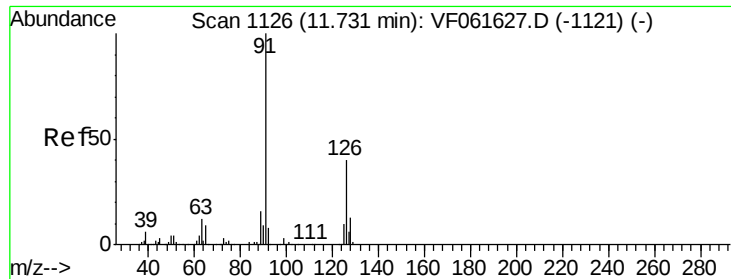
Tgt Ion:	91	Resp:	944111
Ion Ratio	Lower	Upper	
91	100		
120	25.5	12.1	36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.507 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 537844

Ion Ratio Lower Upper

91 100

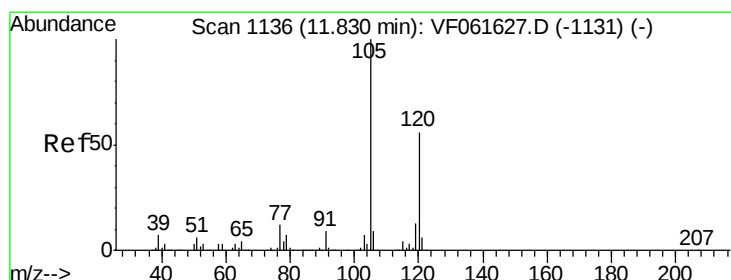
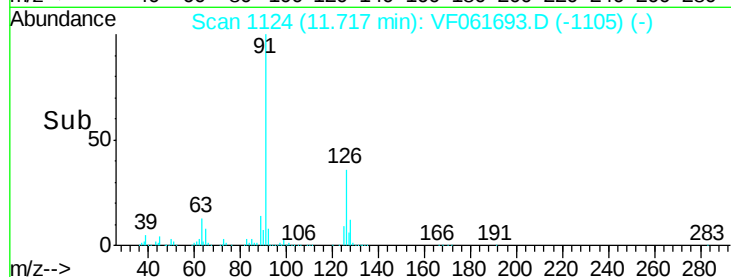
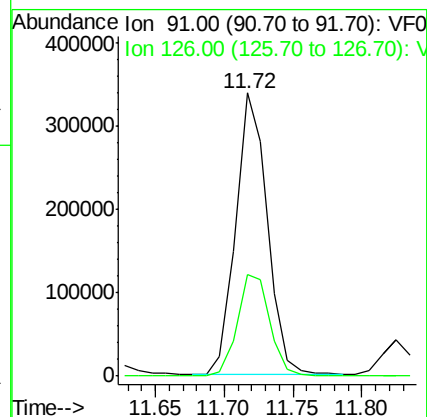
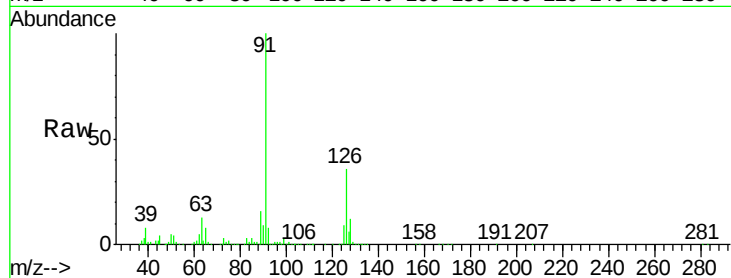
126 35.9 19.8 59.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 50.951 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061693.D

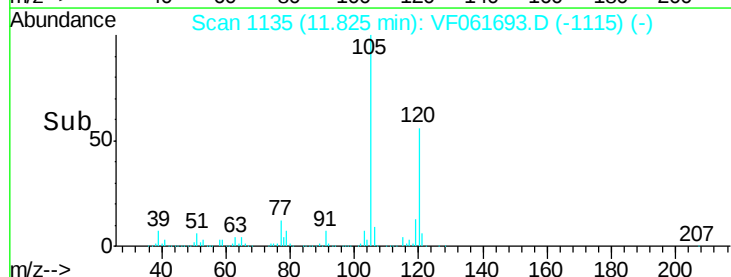
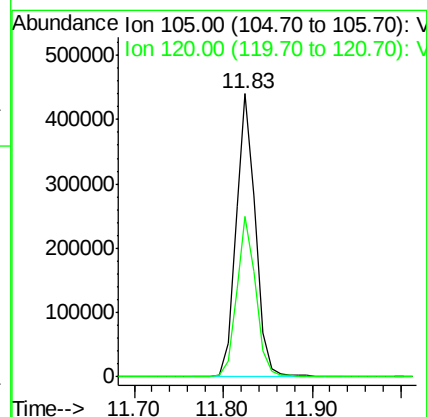
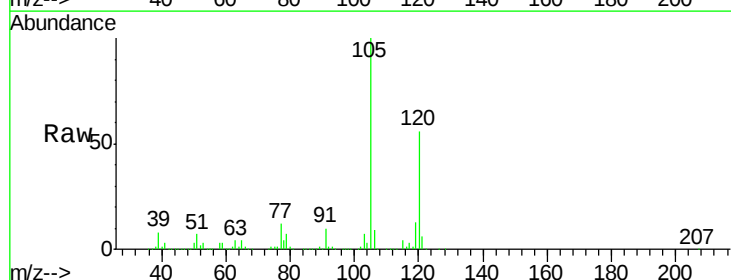
Acq: 21 Feb 2019 12:33

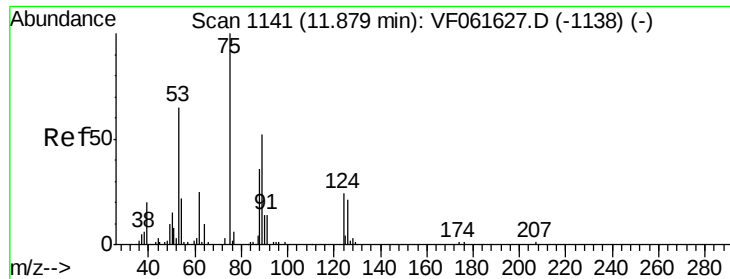
Tgt Ion: 105 Resp: 674762

Ion Ratio Lower Upper

105 100

120 56.5 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 42.705 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

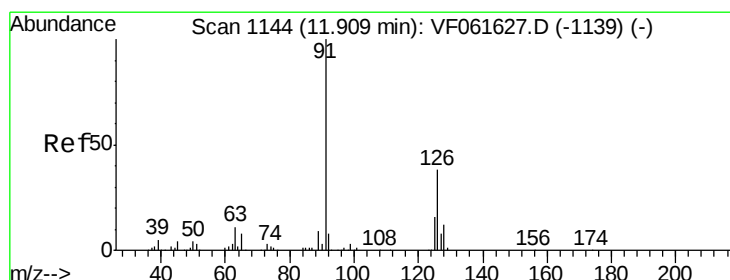
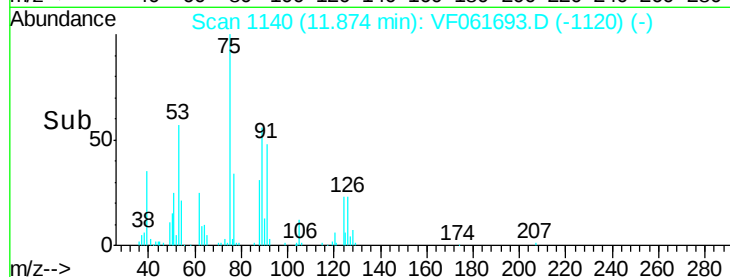
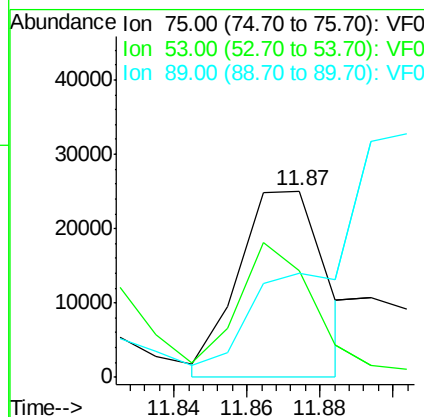
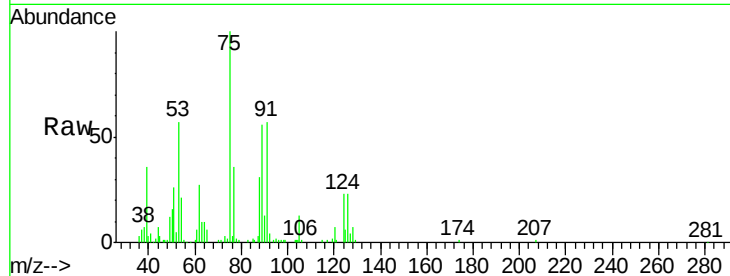
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	41321
Ion	Ratio	Lower	Upper
75	100		
53	57.4	53.7	80.5
89	55.7	41.6	62.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 48.095 ug/l

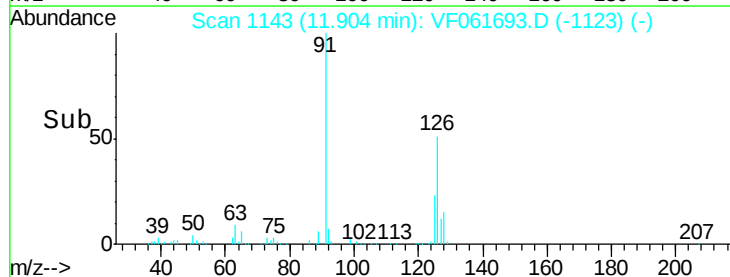
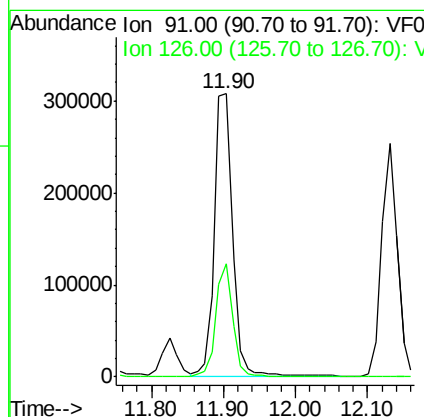
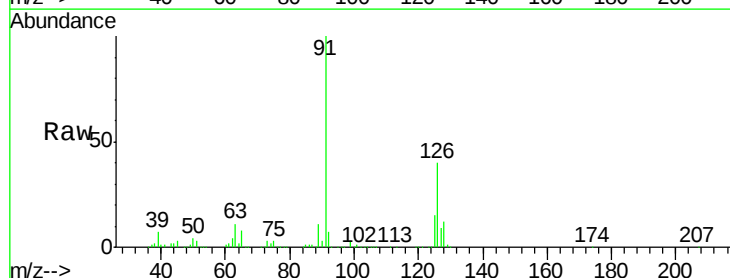
RT: 11.90 min Scan# 1143

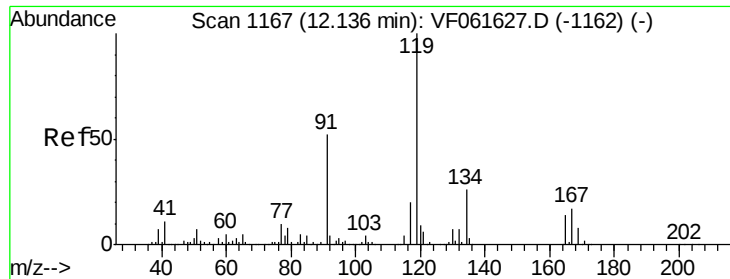
Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Tgt Ion:	91	Resp:	531593
Ion	Ratio	Lower	Upper
91	100		
126	40.0	19.1	57.1





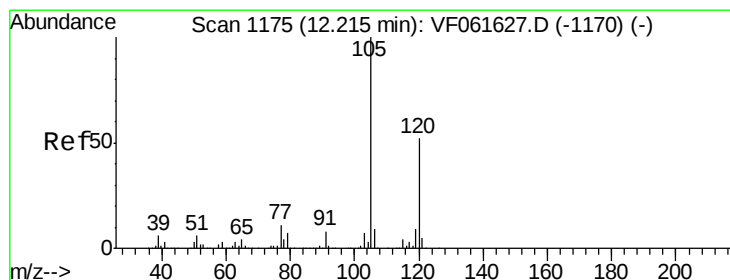
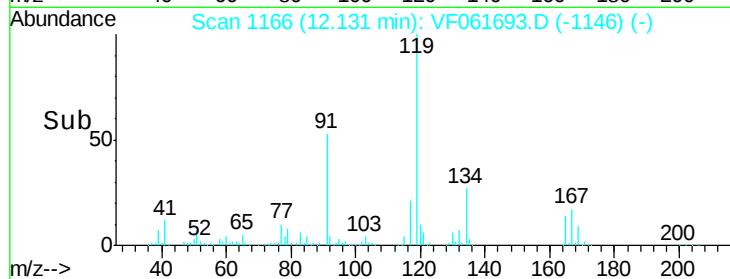
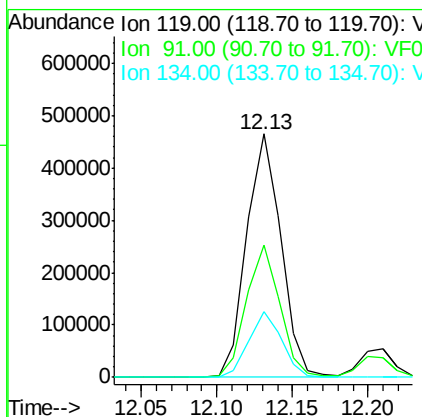
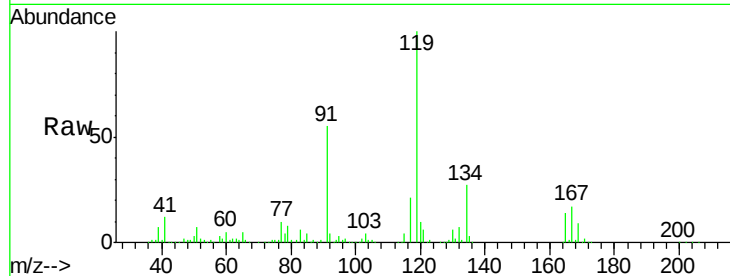
#83
tert-Butylbenzene
Concen: 50.541 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	741355		
91	54.5	26.3	78.8	
134	27.0	12.9	38.7	

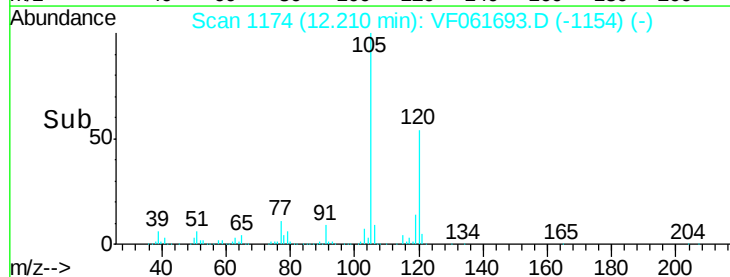
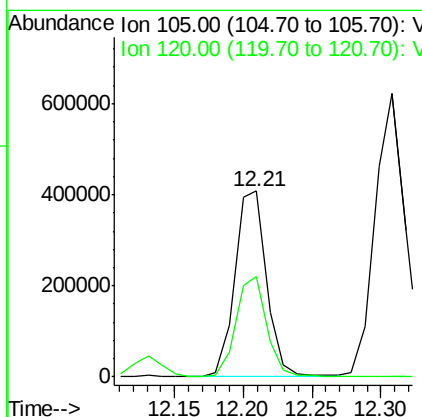
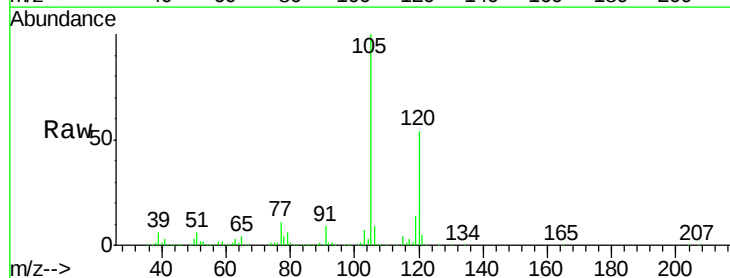
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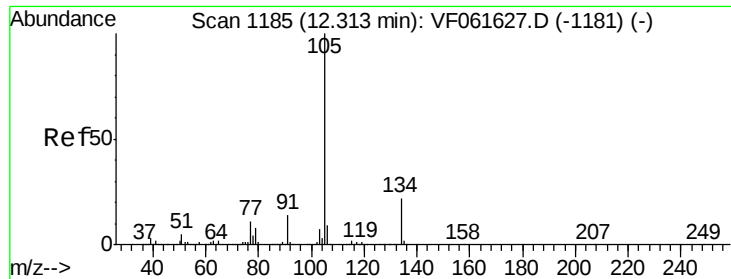
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#84
1,2,4-Trimethylbenzene
Concen: 49.741 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	654444		
120	54.2	26.1	78.3	





#85

sec-Butylbenzene

Concen: 50.197 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 952164

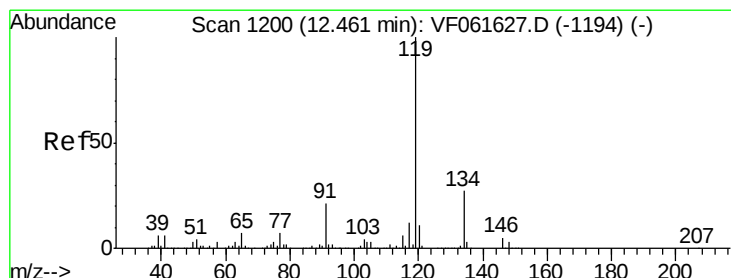
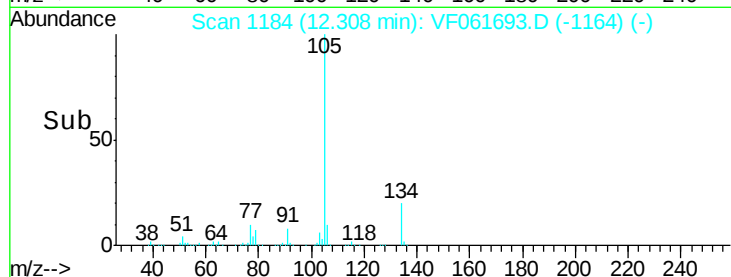
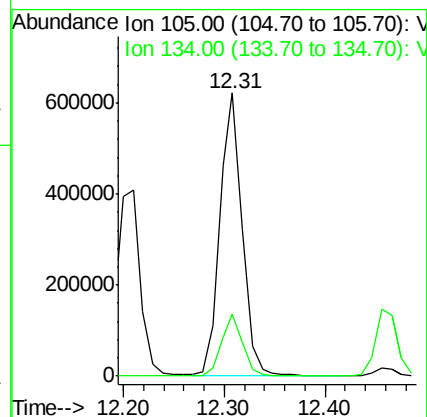
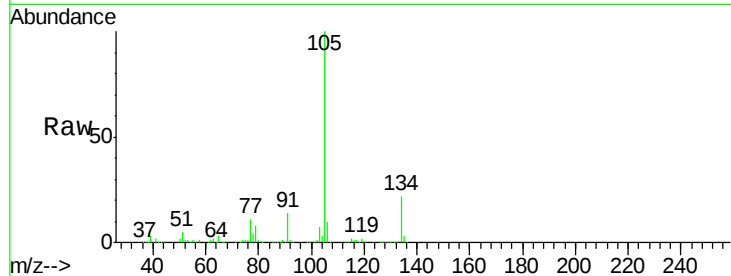
Ion Ratio Lower Upper

105 100

134 22.0 10.8 32.4

Manual Integrations
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2/22/2019 12:27:33 PM



#86

p-Isopropyltoluene

Concen: 51.148 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061693.D

Acq: 21 Feb 2019 12:33

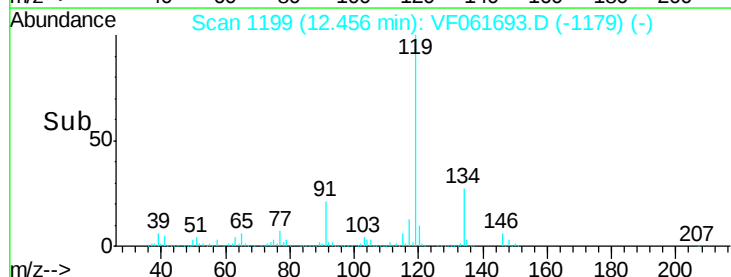
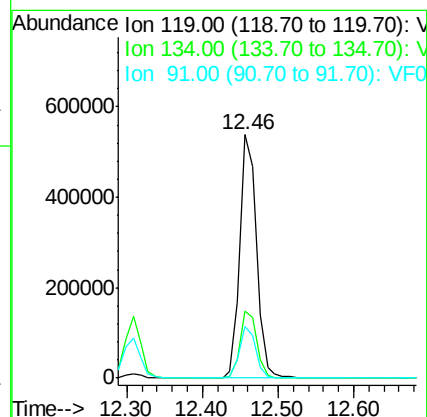
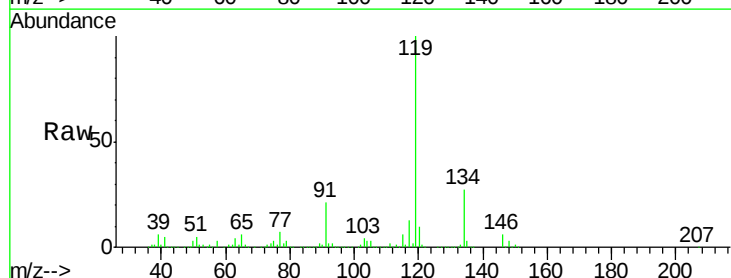
Tgt Ion:119 Resp: 814227

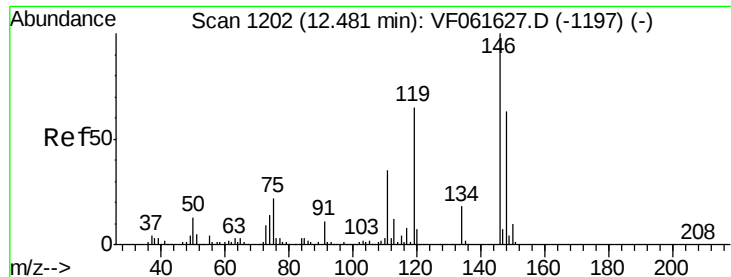
Ion Ratio Lower Upper

119 100

134 27.3 13.7 41.1

91 21.3 10.8 32.4





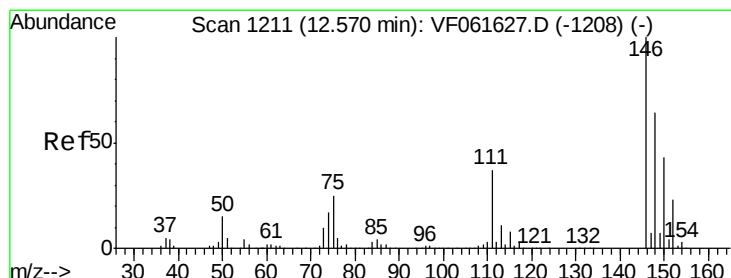
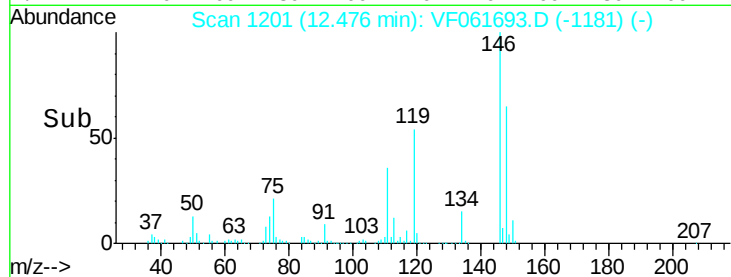
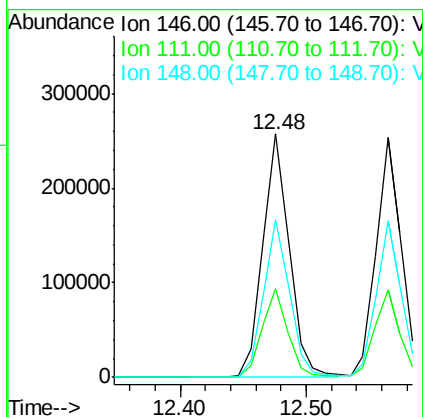
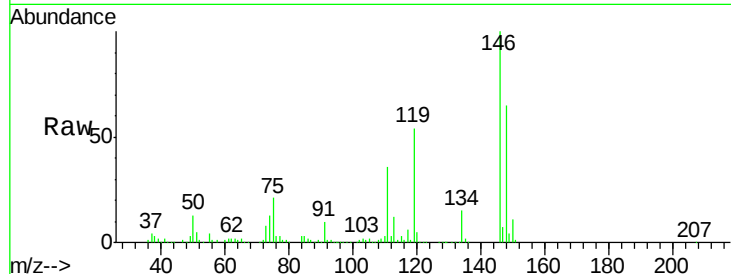
#87
 1,3-Dichlorobenzene
 Concen: 47.591 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	17.5	52.6
148	64.9	31.4	94.3

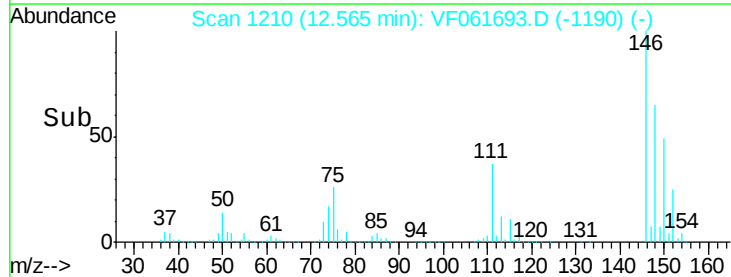
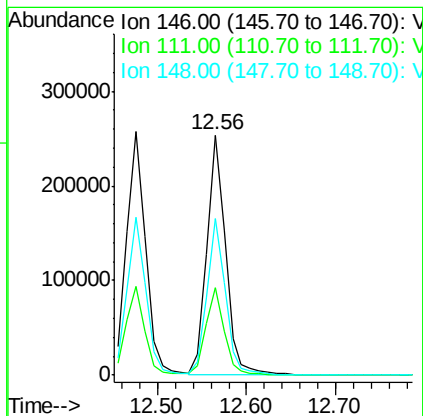
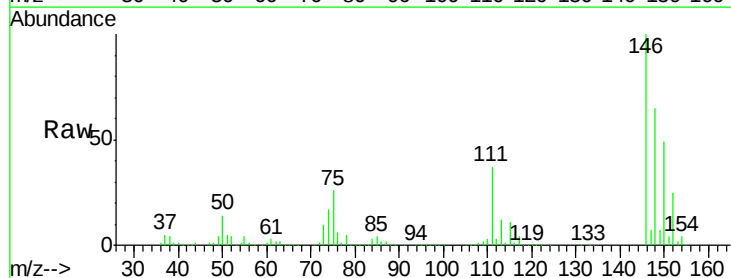
Manual Integrations
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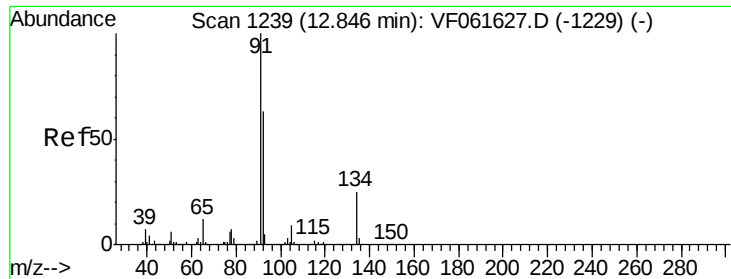
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#88
 1,4-Dichlorobenzene
 Concen: 47.969 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.4	55.4
148	65.2	32.2	96.6





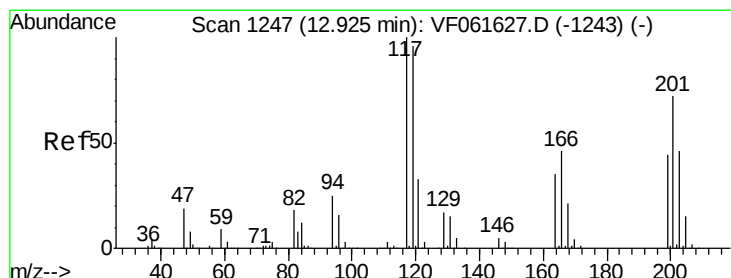
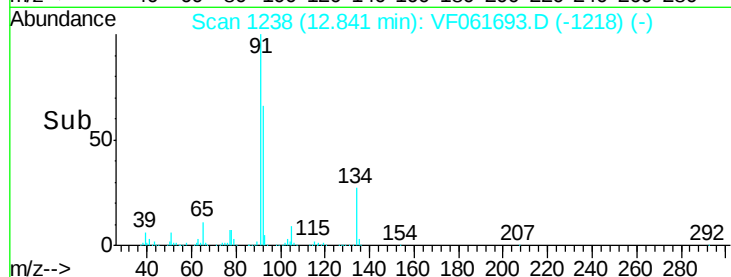
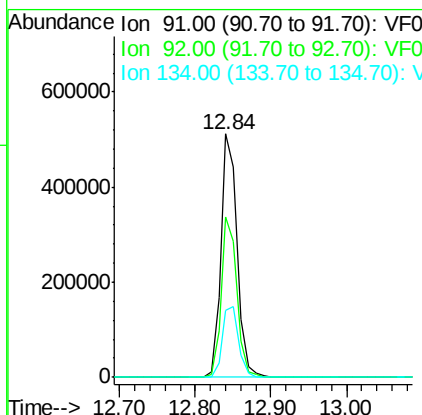
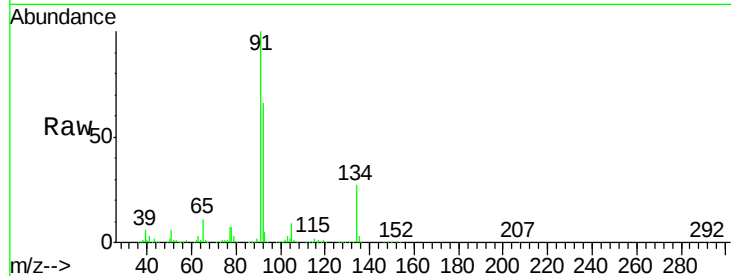
#89
n-Butylbenzene
Concen: 50.932 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	65.9	31.4	94.3
134	27.4	12.3	36.9

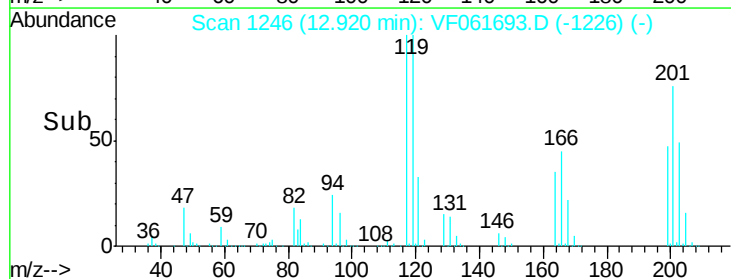
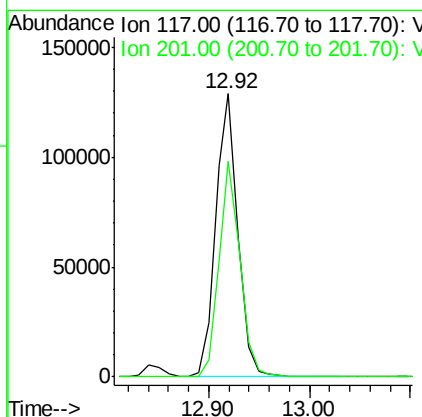
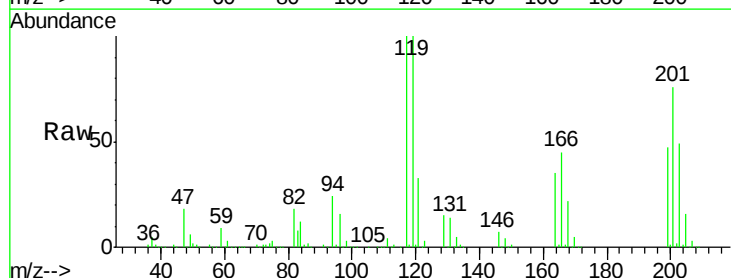
Manual Integrations
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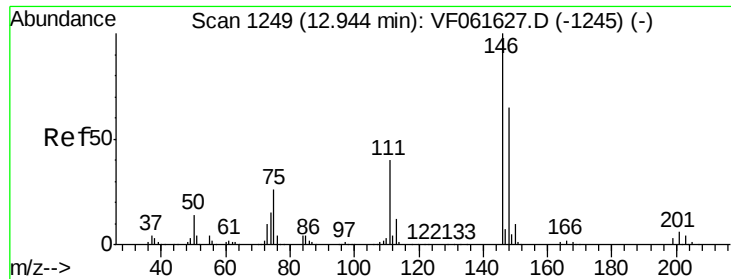
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#90
Hexachloroethane
Concen: 53.255 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
117	100		
201	76.3	36.2	108.6





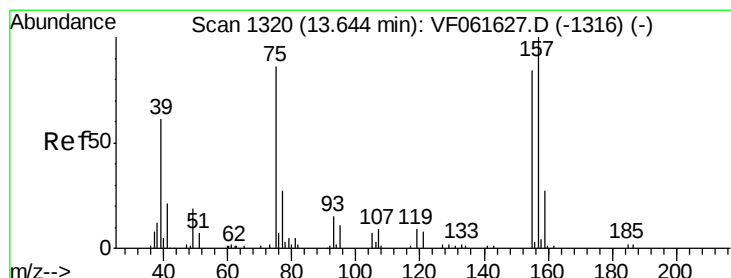
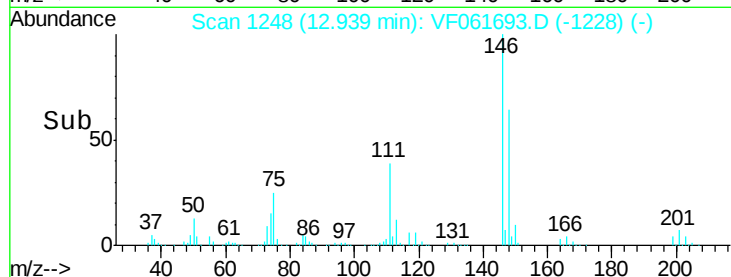
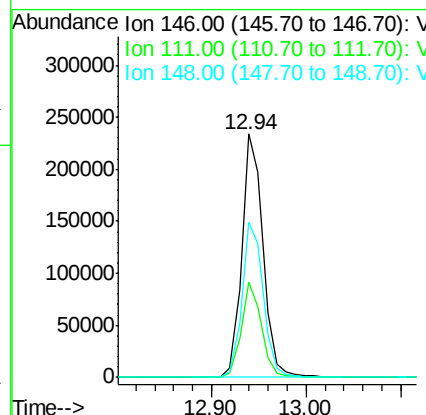
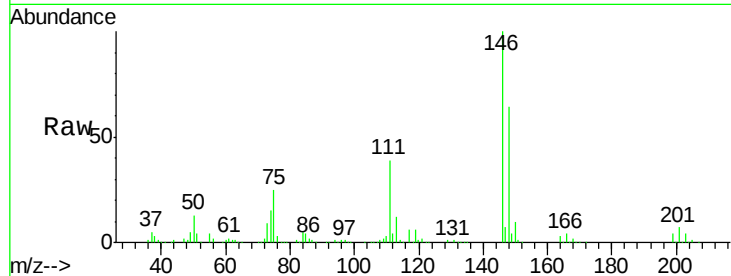
#91
 1,2-Dichlorobenzene
 Concen: 47.522 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	20.2	60.5
148	63.8	32.3	96.9

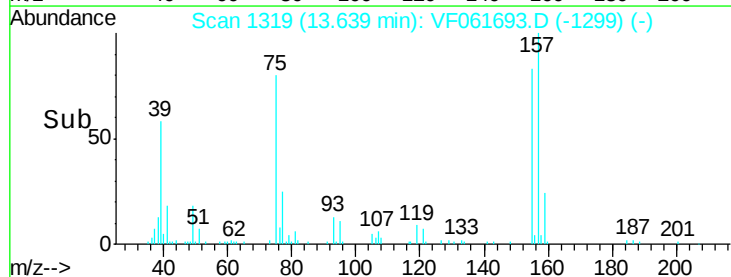
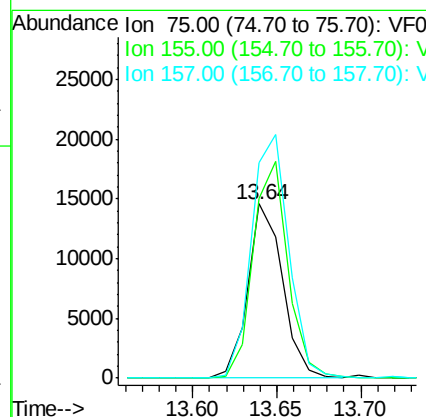
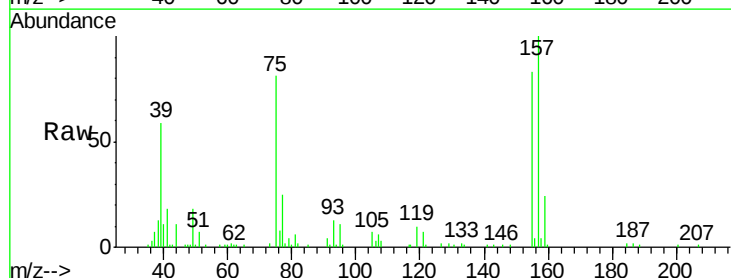
Manual Integrations
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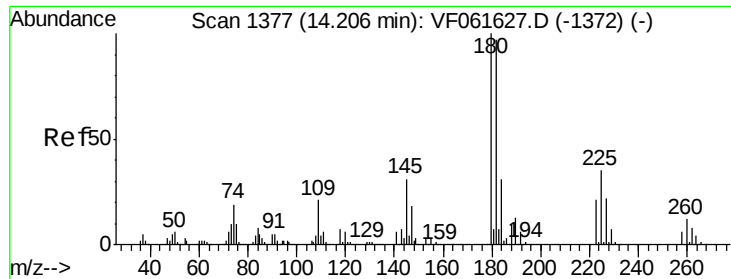
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.451 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.1	48.9	146.8
157	123.8	58.3	174.8





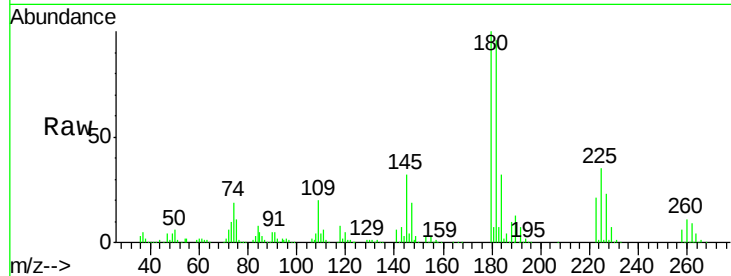
#93
 1,2,4-Trichlorobenzene
 Concen: 48.433 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

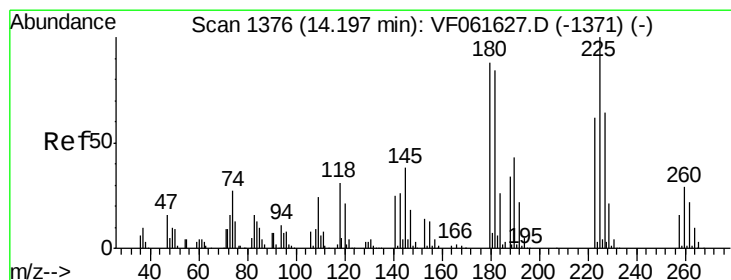
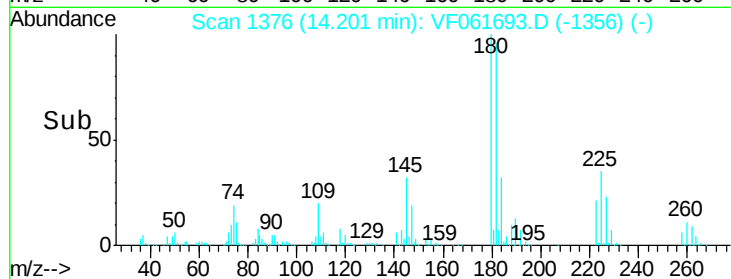
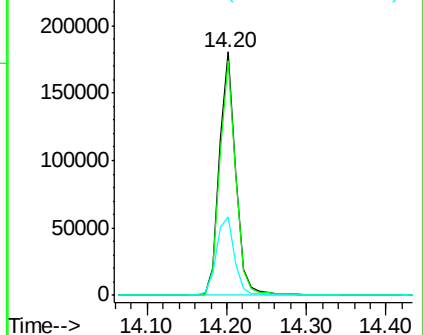
Tot Ion	Ratio	Resp	Lower	Upper
180	100	263508		
182	96.2	48.6	145.9	
145	32.1	15.3	45.9	

Manual Integrations
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MMDadoda
 2/22/2019 12:27:33 PM

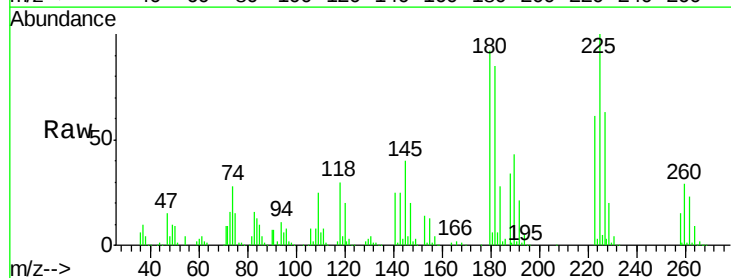


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

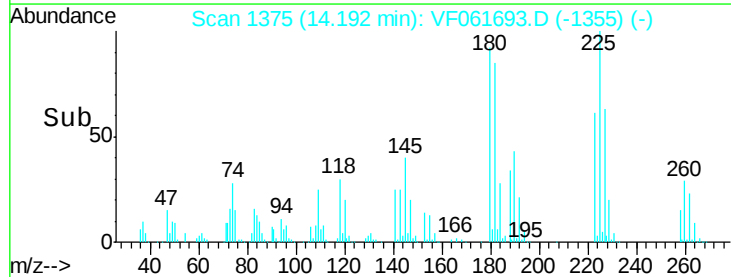
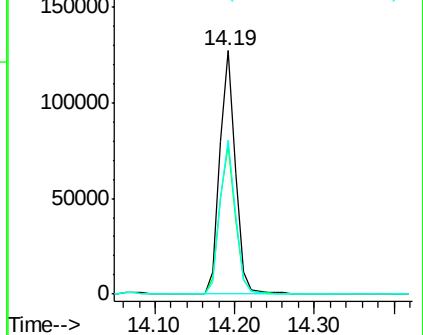


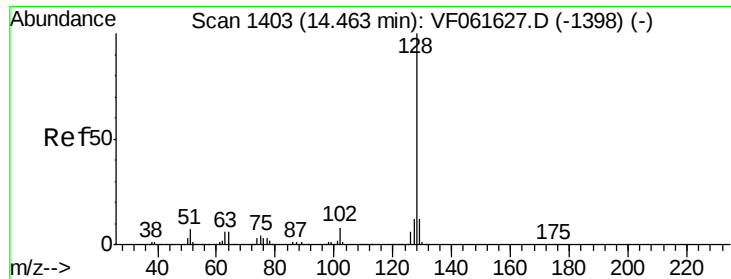
#94
 Hexachlorobutadiene
 Concen: 53.152 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061693.D
 Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	178601		
223	61.2	30.9	92.7	
227	63.2	32.1	96.3	



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





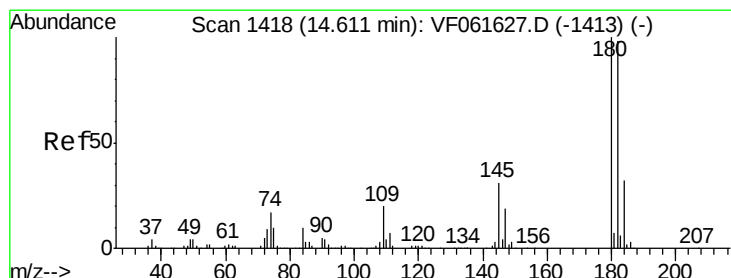
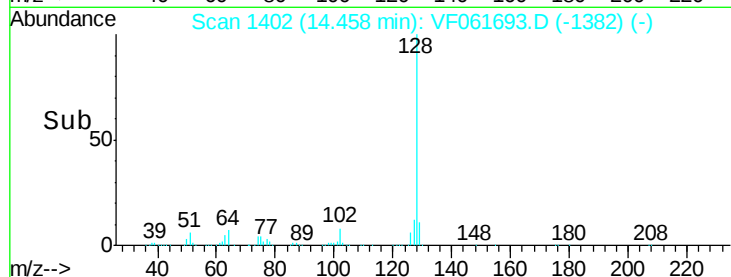
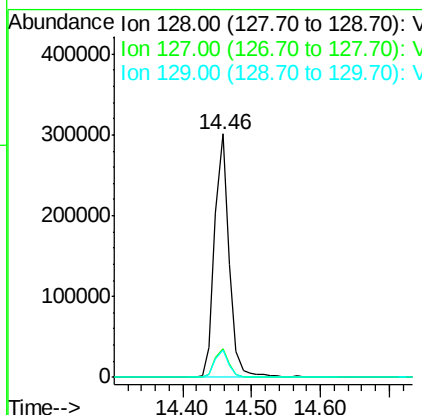
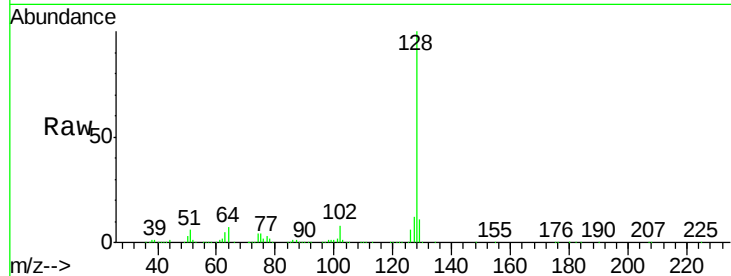
#95
Naphthalene
Concen: 46.535 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.7	9.8	14.6
129	11.3	9.4	14.2

Manual Integrations
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2/22/2019 12:27:33 PM



#96
1,2,3-Trichlorobenzene
Concen: 48.873 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061693.D
Acq: 21 Feb 2019 12:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	49.0	147.2
145	28.5	15.4	46.1

