

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021319\
 Data File : VF061627.D
 Acq On : 13 Feb 2019 17:34
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 2/14/2019 12:42:00 PM

Quant Time: Feb 14 03:30:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:03:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	273476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	409715	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	364763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	195108	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	101933	29.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	59.92%	
35) Dibromofluoromethane	4.12	113	146488	45.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.88%	
50) Toluene-d8	7.56	98	444139	50.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.42	95	167882	43.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.20%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	141595	29.507	ug/l	100
3) Chloromethane	1.10	50	159848	42.534	ug/l	100
4) Vinyl Chloride	1.14	62	147192	45.062	ug/l	100
5) Bromomethane	1.32	94	108273	44.595	ug/l	100
6) Chloroethane	1.40	64	73781	48.499	ug/l	100
7) Trichlorofluoromethane	1.49	101	177278	30.912	ug/l	100
8) Diethyl Ether	1.63	74	45992	51.219	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.84	101	126360	40.811	ug/l	100
10) Methyl Iodide	1.91	142	252784m	49.485	ug/l	
11) Tert butyl alcohol	2.58	59	28278	196.121	ug/l	100
12) 1,1-Dichloroethene	1.80	96	113365	44.813	ug/l	100
13) Acrolein	2.01	56	37678	235.780	ug/l	100
14) Allyl chloride	2.10	41	145109	39.466	ug/l	100
15) Acrylonitrile	2.96	53	99198	250.101	ug/l	100
16) Acetone	2.25	43	108934	212.910	ug/l	100
17) Carbon Disulfide	1.83	76	361186	46.853	ug/l	100
18) Methyl Acetate	2.35	43	42843	39.187	ug/l	100
19) Methyl tert-butyl Ether	2.43	73	196436	38.138	ug/l	100
20) Methylene Chloride	2.19	84	112161m	37.324	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	123923	47.423	ug/l	100
22) Diisopropyl ether	2.81	45	335278	39.830	ug/l	100
23) Vinyl Acetate	3.20	43	816568	197.921	ug/l	100
24) 1,1-Dichloroethane	2.88	63	198415	39.021	ug/l	100
25) 2-Butanone	4.34	43	226255	217.179	ug/l	100
26) 2,2-Dichloropropane	3.62	77	85939	34.687	ug/l	100
27) cis-1,2-Dichloroethene	3.49	96	161655	43.539	ug/l	100
28) Bromochloromethane	3.72	49	106088	41.967	ug/l	100
29) Tetrahydrofuran	4.09	42	101199	207.378	ug/l	100
30) Chloroform	3.87	83	236724	34.377	ug/l	100
31) Cyclohexane	3.70	56	219428m	43.466	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	164098m	35.316	ug/l	
36) 1,1-Dichloropropene	4.30	75	191213	41.790	ug/l	100
37) Ethyl Acetate	4.13	43	84500	42.005	ug/l	100
38) Carbon Tetrachloride	4.00	117	131225	35.066	ug/l	100

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	232505	50.035	ug/l	100
40) Benzene	4.64	78	509962	49.734	ug/l	100
41) Methacrylonitrile	4.76	41	46157	45.783	ug/l	100
42) 1,2-Dichloroethane	4.96	62	125024	35.240	ug/l	100
43) Isopropyl Acetate	6.97	43	101181	44.305	ug/l	100
44) Trichloroethene	5.51	130	161592	51.596	ug/l	100
45) 1,2-Dichloropropane	6.25	63	126234	47.724	ug/l	100
46) Dibromomethane	6.10	93	79934	46.263	ug/l	100
47) Bromodichloromethane	6.40	83	172796	39.638	ug/l	100
48) Methyl methacrylate	6.72	41	64875	42.522	ug/l	100
49) 1,4-Dioxane	6.71	88	12734	1188.998	ug/l	100
51) 4-Methyl-2-Pentanone	8.27	43	382030	222.407	ug/l	100
52) Toluene	7.63	92	294154	45.944	ug/l	100
53) t-1,3-Dichloropropene	8.29	75	137679	40.811	ug/l	100
54) cis-1,3-Dichloropropene	7.31	75	184065	43.050	ug/l	100
55) 1,1,2-Trichloroethane	8.50	97	93825	47.370	ug/l	100
56) Ethyl methacrylate	8.63	69	99301	45.222	ug/l	100
57) 1,3-Dichloropropane	8.86	76	151913	44.059	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.30	63	85301	230.291	ug/l	100
59) 2-Hexanone	9.50	43	263504	226.483	ug/l	100
60) Dibromochloromethane	8.72	129	130490	47.420	ug/l	100
61) 1,2-Dibromoethane	9.00	107	99319	48.080	ug/l	100
64) Tetrachloroethene	8.16	164	142612	51.672	ug/l	100
65) Chlorobenzene	9.81	112	349721	49.294	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	138278	47.257	ug/l	100
67) Ethyl Benzene	9.91	91	569146	44.063	ug/l	100
68) m/p-Xylenes	10.14	106	437637	97.660	ug/l	100
69) o-Xylene	10.73	106	243881	49.348	ug/l	100
70) Styrene	10.79	104	331441	48.431	ug/l	100
71) Bromoform	10.78	173	76947	55.559	ug/l	100
73) Isopropylbenzene	11.13	105	670882	44.485	ug/l	100
74) N-amyl acetate	11.38	43	164675	43.367	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.70	83	120778	42.905	ug/l	100
76) 1,2,3-Trichloropropane	11.80	75	82107	41.053	ug/l	100
77) Bromobenzene	11.50	156	160645	48.417	ug/l	100
78) n-propylbenzene	11.60	91	758912	41.894	ug/l	100
79) 2-Chlorotoluene	11.73	91	440142	42.670	ug/l	100
80) 1,3,5-Trimethylbenzene	11.83	105	540693	43.460	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.88	75	40724m	48.711	ug/l	
82) 4-Chlorotoluene	11.91	91	441526	41.202	ug/l	100
83) tert-Butylbenzene	12.14	119	617832	48.300	ug/l	100
84) 1,2,4-Trimethylbenzene	12.21	105	521498	42.700	ug/l	100
85) sec-Butylbenzene	12.31	105	779819	45.616	ug/l	100
86) p-Isopropyltoluene	12.46	119	641569	45.884	ug/l	100
87) 1,3-Dichlorobenzene	12.48	146	312132	48.403	ug/l	100
88) 1,4-Dichlorobenzene	12.57	146	302702	49.340	ug/l	100
89) n-Butylbenzene	12.85	91	608359	42.960	ug/l	100
90) Hexachloroethane	12.92	117	157279	44.349	ug/l	100
91) 1,2-Dichlorobenzene	12.94	146	301751	50.237	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.64	75	20293	41.578	ug/l	100

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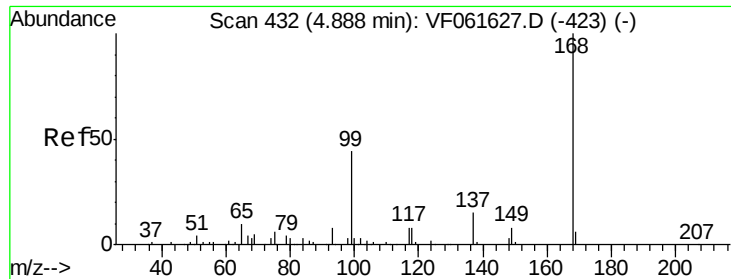
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	216801	51.404	ug/l	100
94) Hexachlorobutadiene	14.20	225	136432	52.435	ug/l	100
95) Naphthalene	14.46	128	397979	49.913	ug/l	100
96) 1,2,3-Trichlorobenzene	14.61	180	207925	54.883	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion:168 Resp: 273476

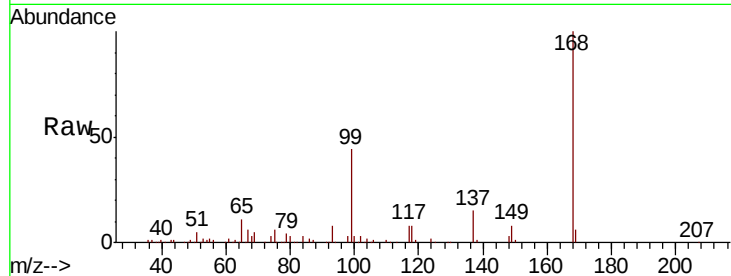
Ion Ratio Lower Upper

168 100

99 43.6 34.9 52.3

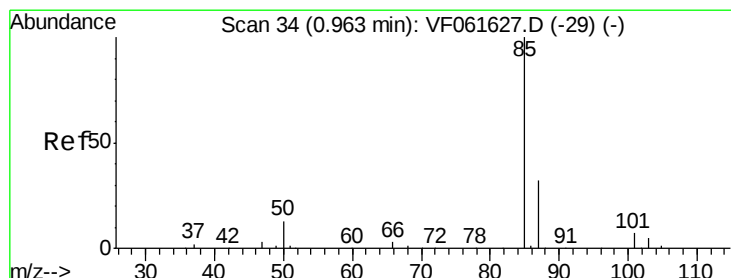
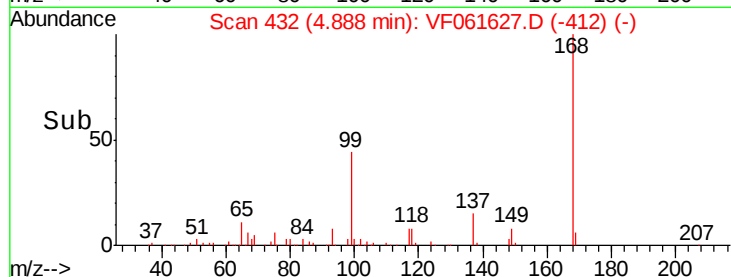
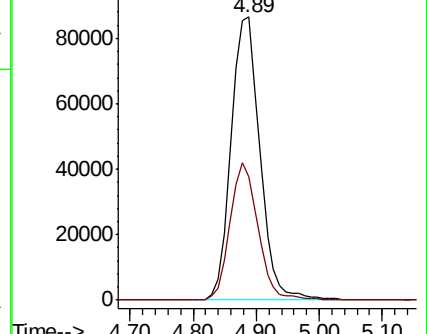
Manual Integrations
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2/14/2019 12:42:00 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 29.507 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061627.D

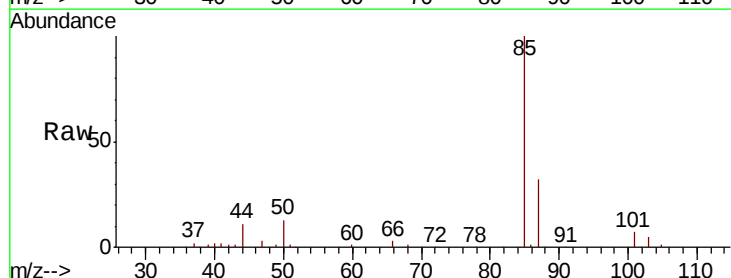
Acq: 13 Feb 2019 17:34

Tgt Ion: 85 Resp: 141595

Ion Ratio Lower Upper

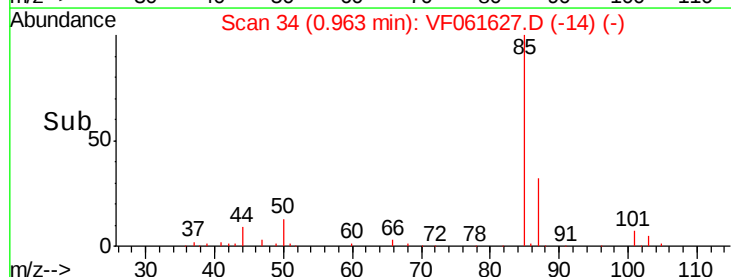
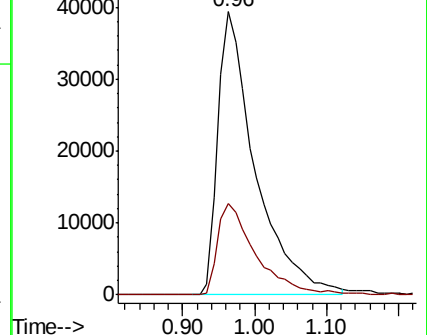
85 100

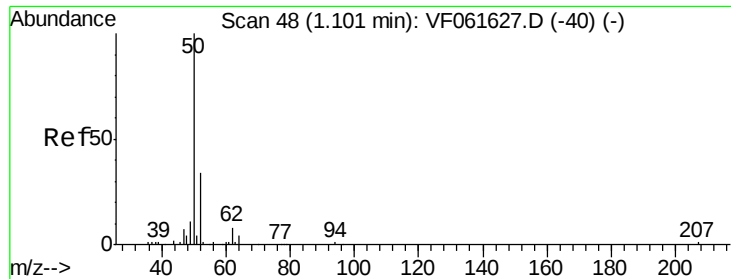
87 32.1 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 42.534 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 159848

Ion Ratio Lower Upper

50 100

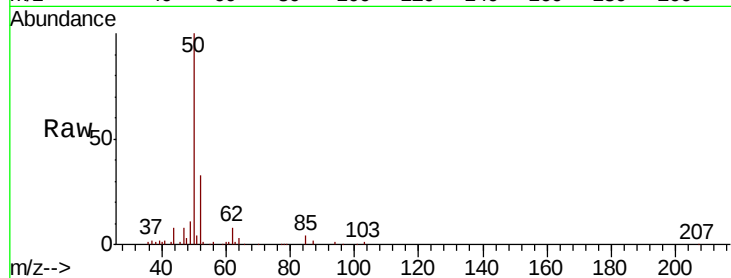
52 32.8 26.2 39.4

Manual Integrations

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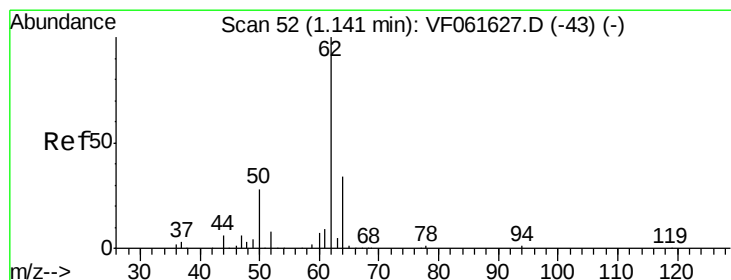
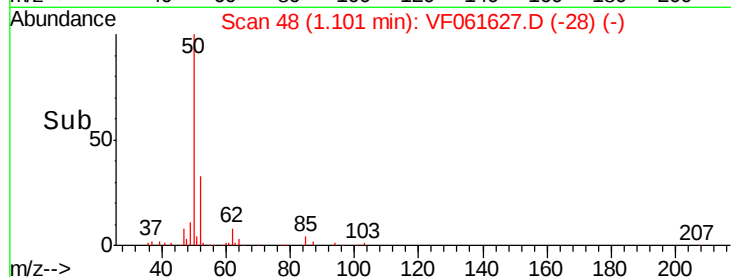
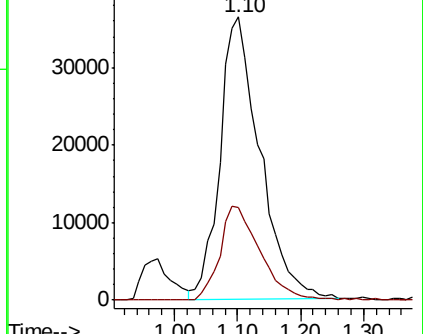
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 45.062 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061627.D

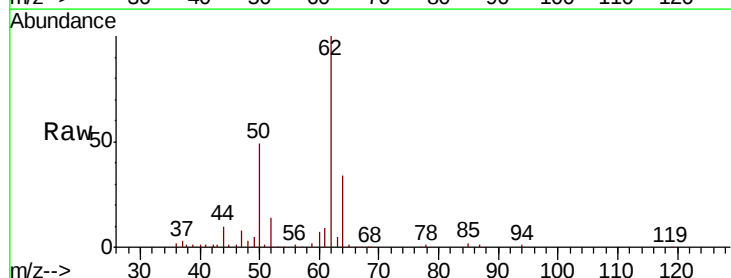
Acq: 13 Feb 2019 17:34

Tgt Ion: 62 Resp: 147192

Ion Ratio Lower Upper

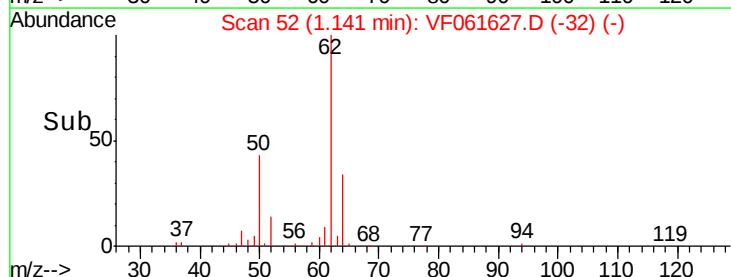
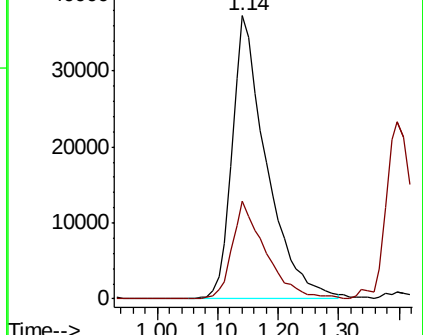
62 100

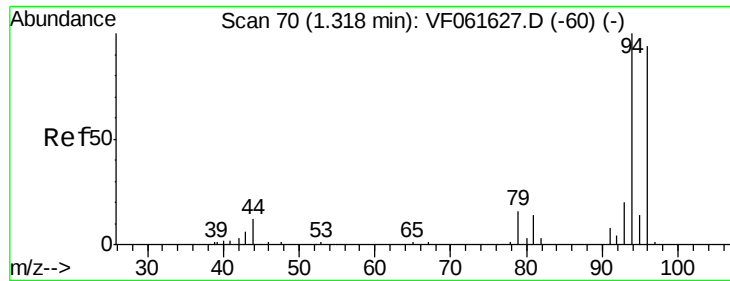
64 34.4 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 44.595 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 108273

Ion Ratio Lower Upper

94 100

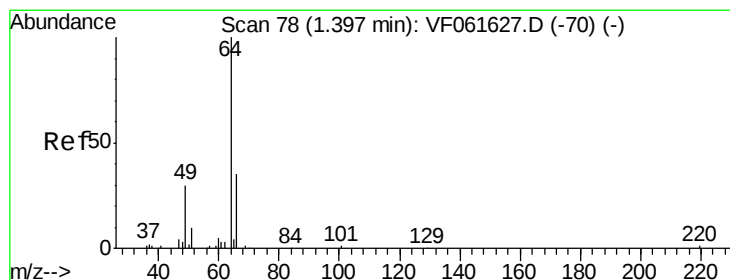
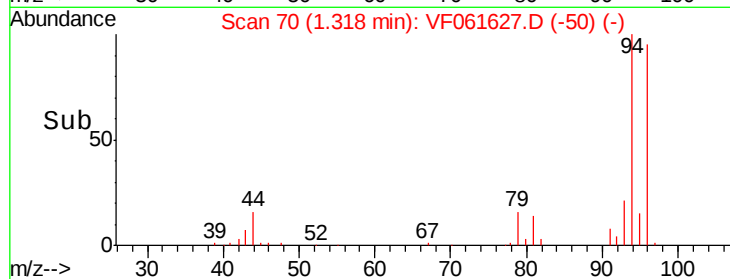
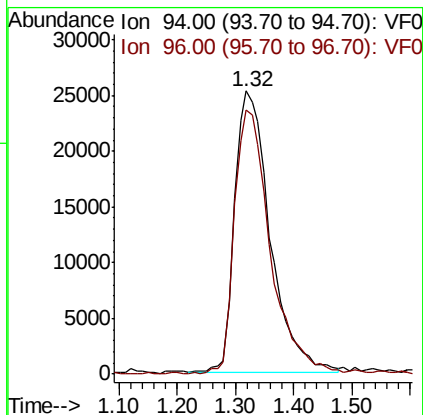
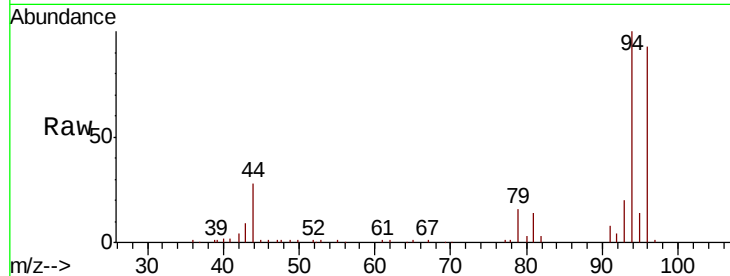
96 93.3 74.6 112.0

Manual Integrations

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#6

Chloroethane

Concen: 48.499 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061627.D

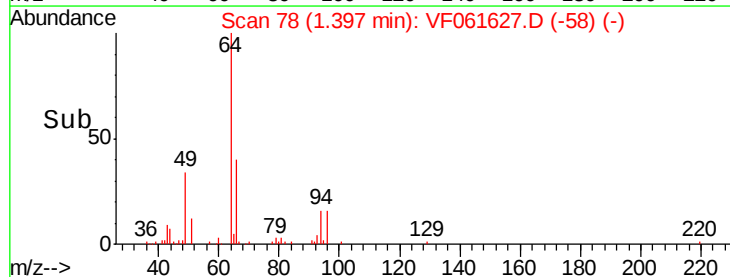
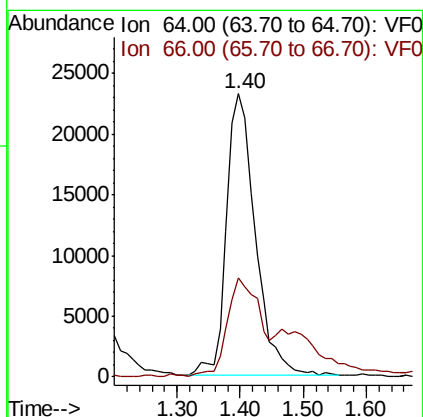
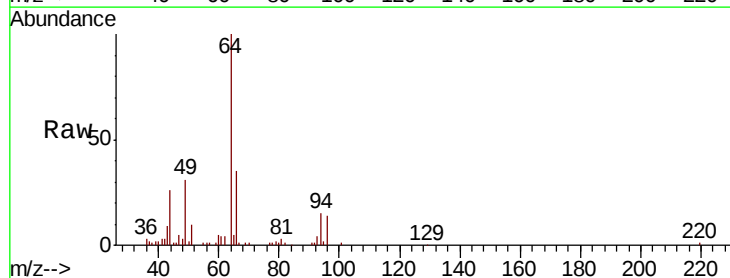
Acq: 13 Feb 2019 17:34

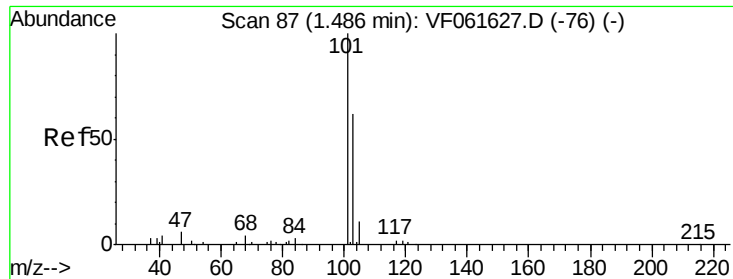
Tgt Ion: 64 Resp: 73781

Ion Ratio Lower Upper

64 100

66 34.9 27.9 41.9





#7

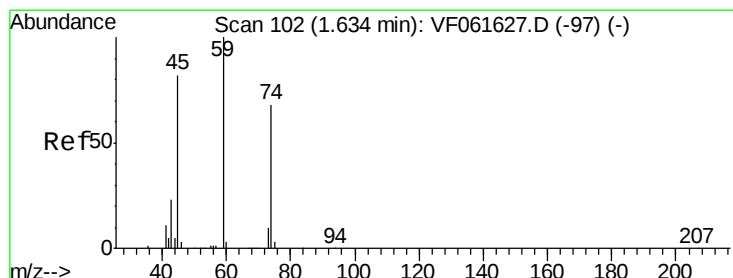
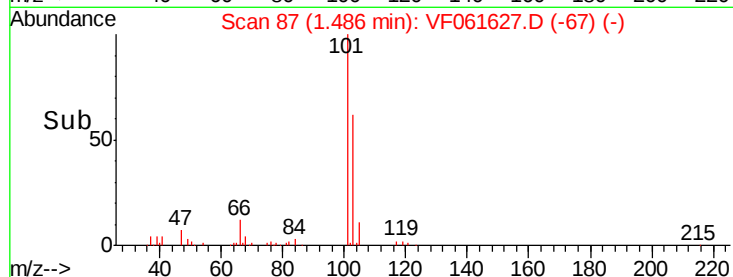
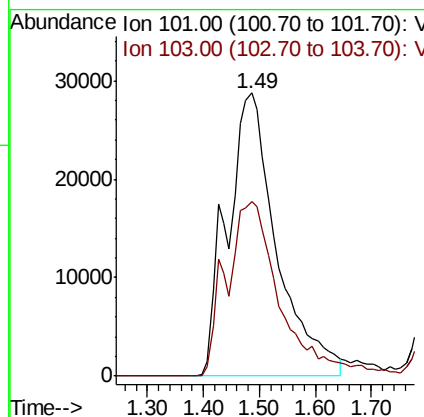
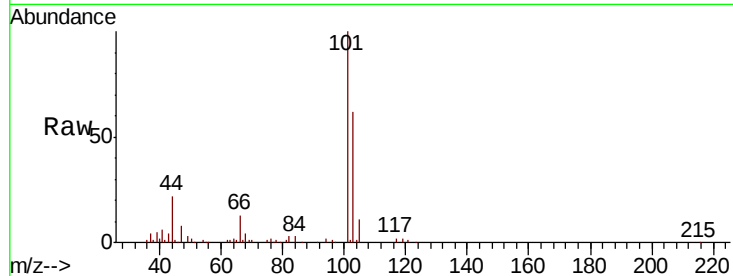
Trichlorofluoromethane
Concen: 30.912 ug/l
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
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ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.6	49.3	73.9

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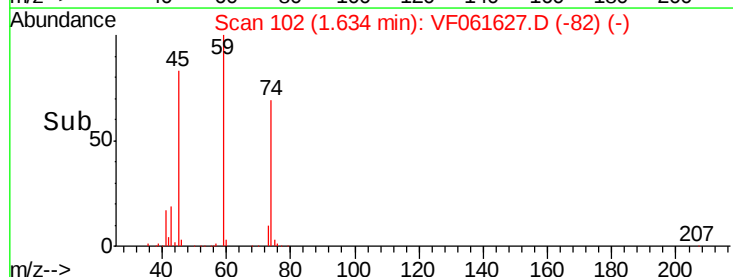
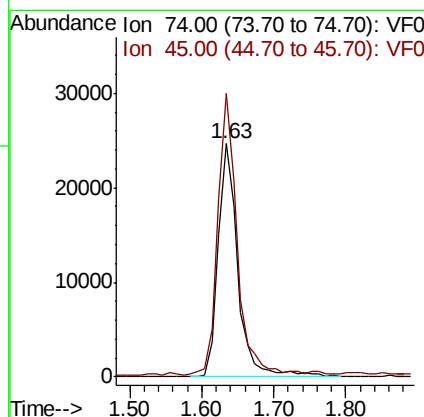
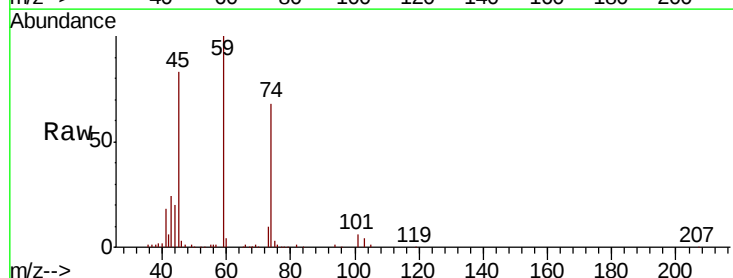
MMDadoda
2/14/2019 12:42:00 PM

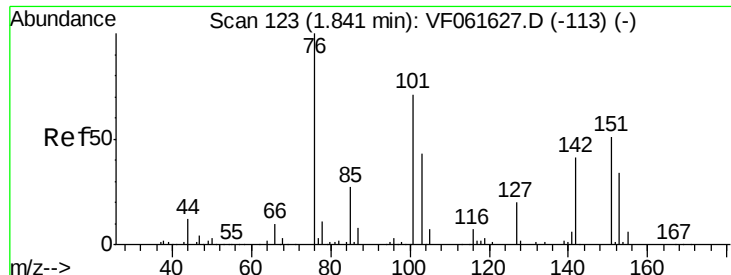


#8

Diethyl Ether
Concen: 51.219 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	121.5	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 40.811 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

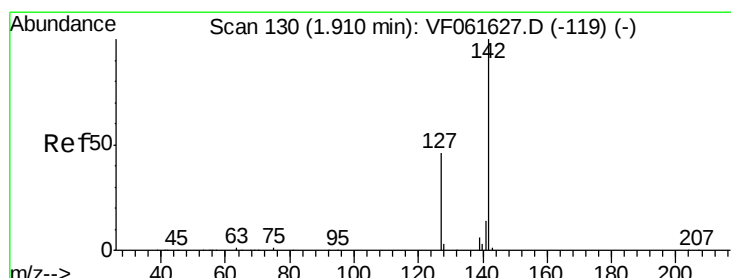
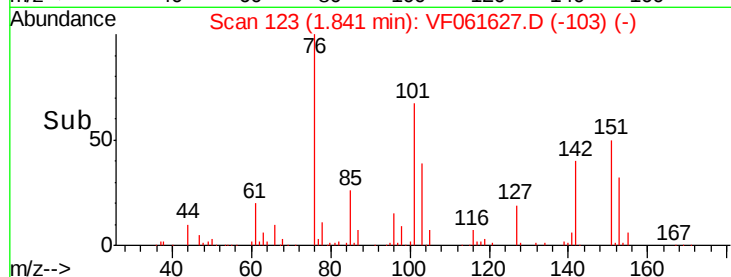
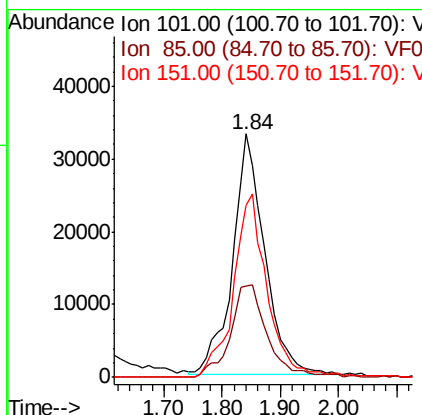
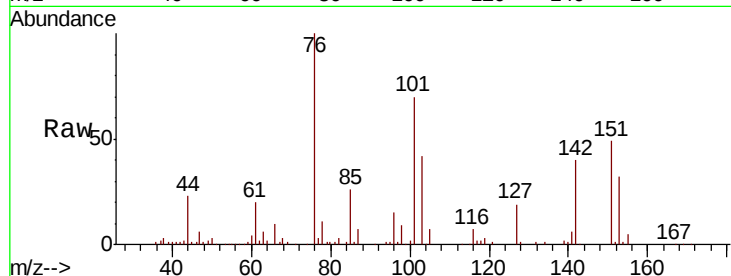
ClientSampleId :

VSTDICCC050

Tot Ion:	101	Resp:	126360
Ion Ratio	Lower	Upper	
101	100		
85	37.2	29.8	44.6
151	70.4	56.3	84.5

Manual Integrations
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#10

Methyl Iodide

Concen: 49.485 ug/l m

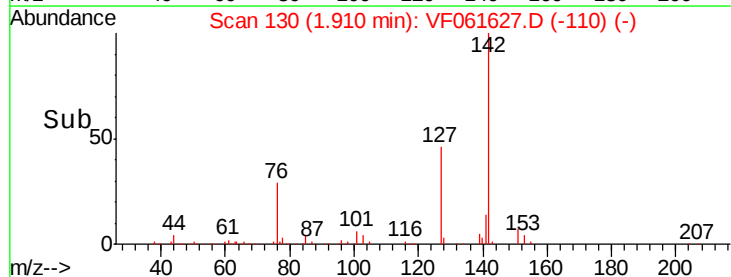
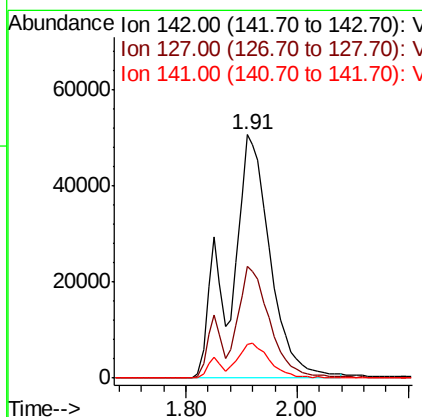
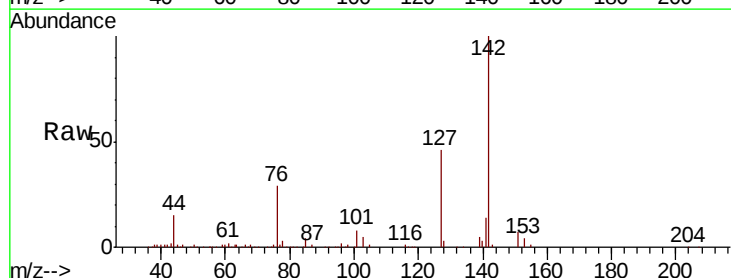
RT: 1.91 min Scan# 130

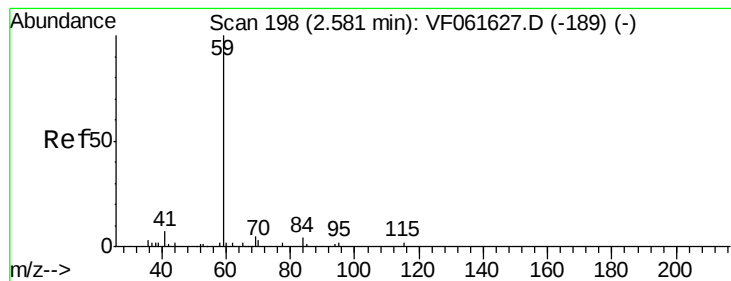
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	142	Resp:	252784
Ion Ratio	Lower	Upper	
142	100		
127	45.8	36.6	55.0
141	13.8	11.0	16.6





#11

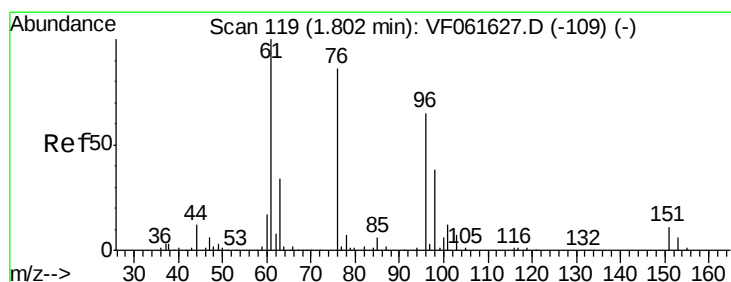
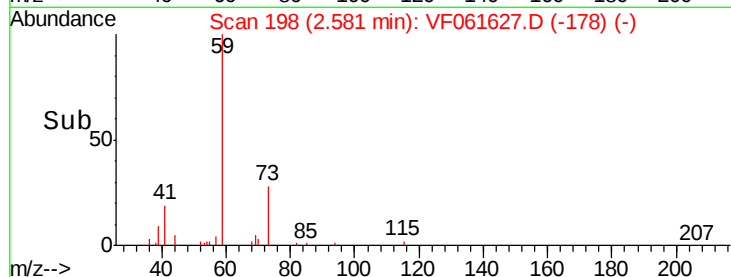
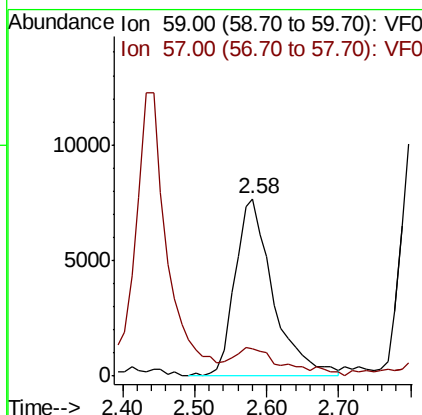
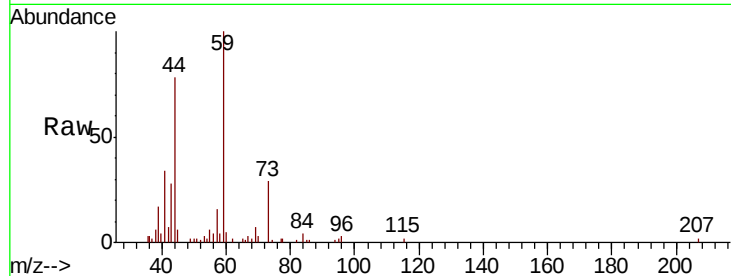
Tert butyl alcohol
Concen: 196.121 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	15.6	12.5	18.7

Manual Integrations
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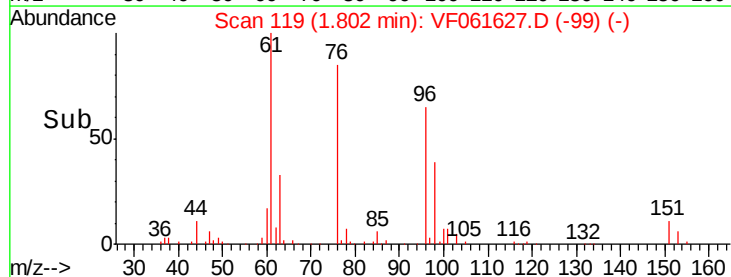
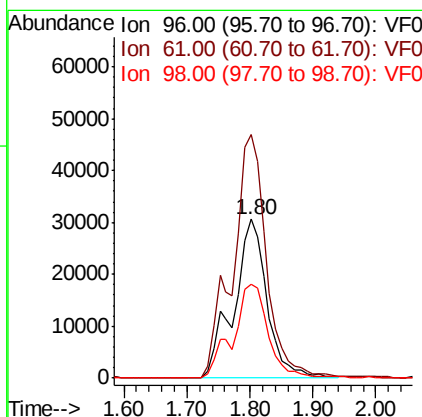
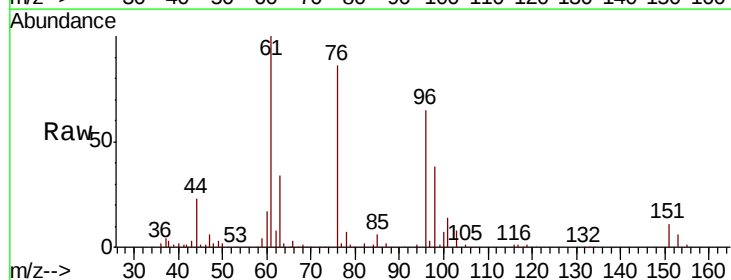
MMDadoda
2/14/2019 12:42:00 PM

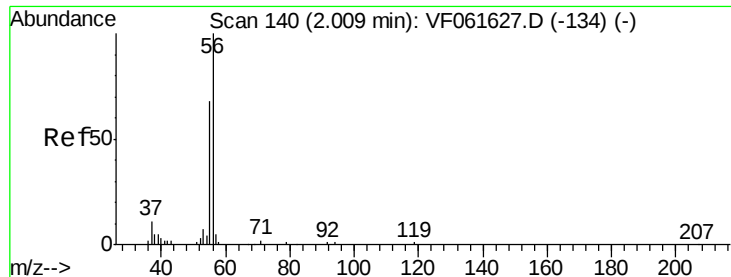


#12

1,1-Dichloroethene
Concen: 44.813 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.3	122.6	184.0
98	59.0	47.2	70.8





#13

Acrolein

Concen: 235.780 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 37678

Ion Ratio Lower Upper

56 100

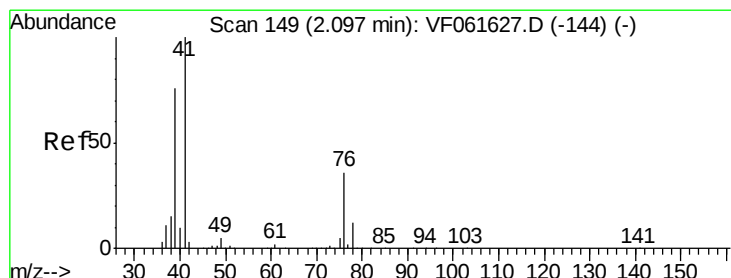
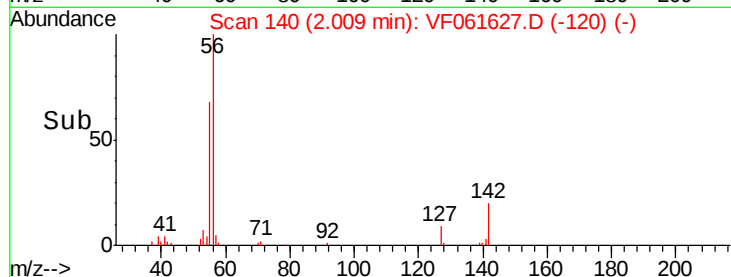
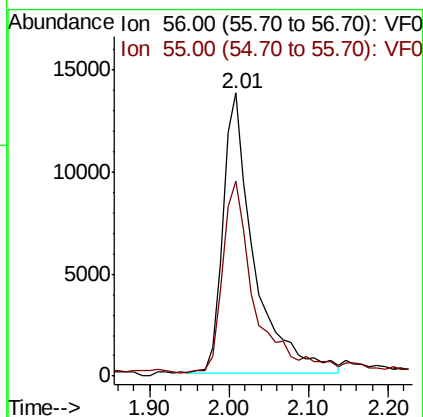
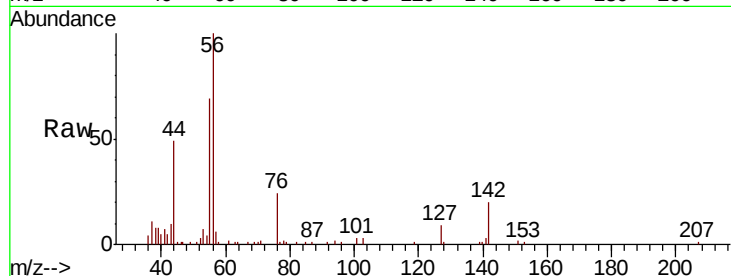
55 68.8 55.0 82.6

Manual Integrations

APPROVED

MMDadoda

2/14/2019 12:42:00 PM



#14

Allyl chloride

Concen: 39.466 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

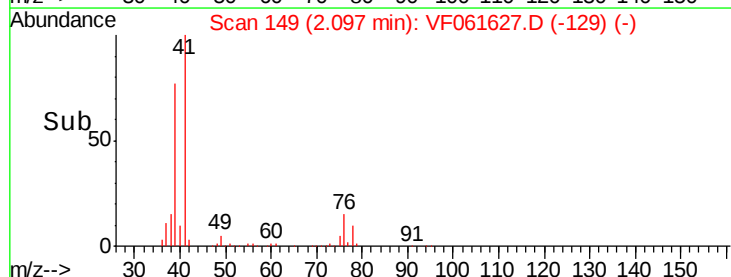
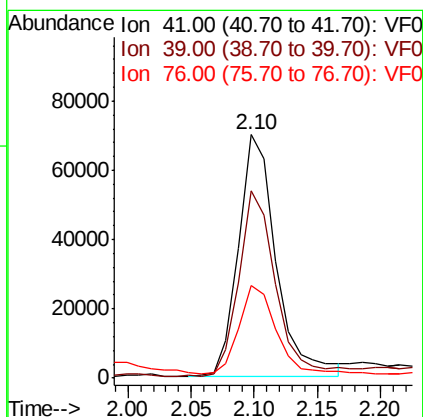
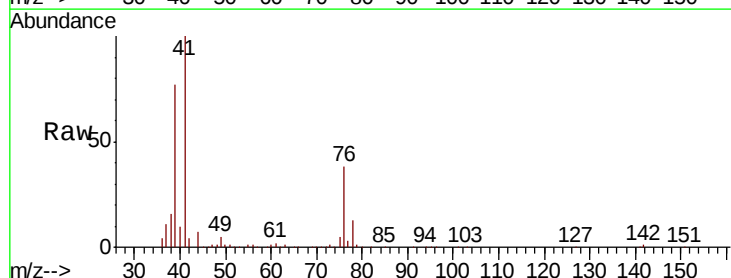
Tgt Ion: 41 Resp: 145109

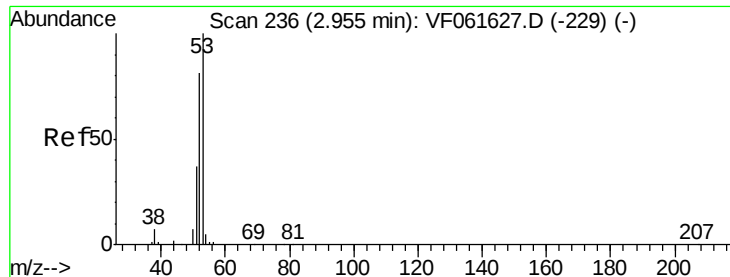
Ion Ratio Lower Upper

41 100

39 77.0 61.6 92.4

76 37.9 30.3 45.5





#15

Acrylonitrile

Concen: 250.101 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

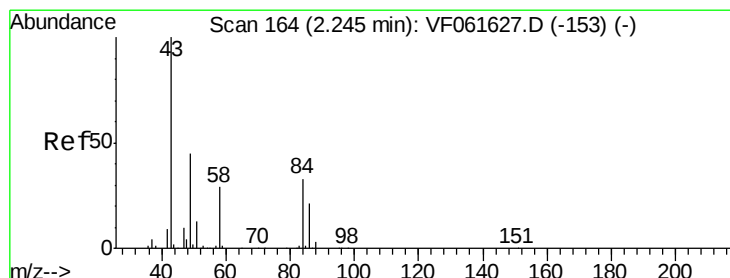
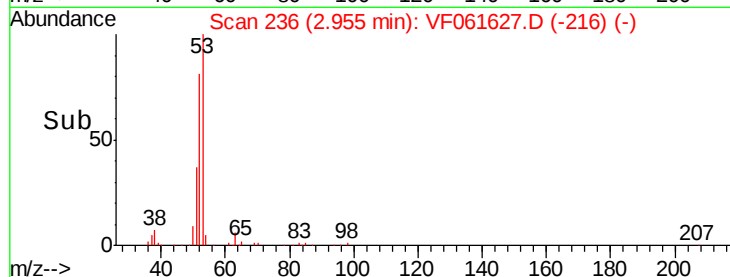
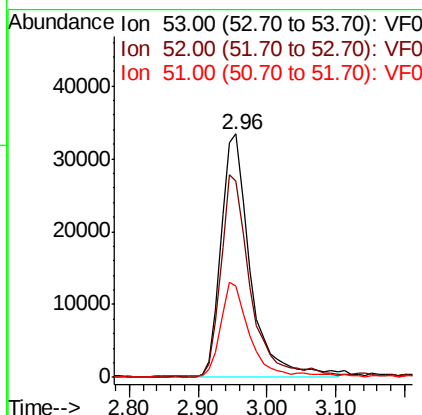
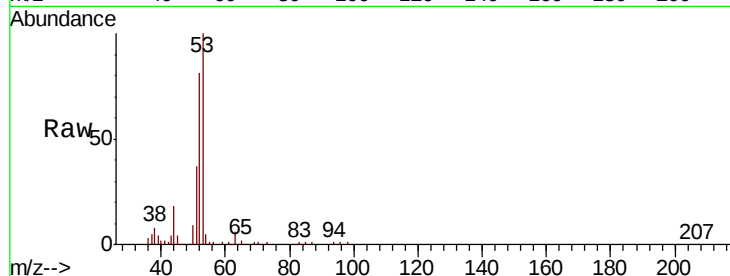
ClientSampleId :

VSTDICCC050

Tot Ion:	53	Resp:	99198
Ion	Ratio	Lower	Upper
53	100		
52	80.8	64.6	97.0
51	37.3	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 212.910 ug/l

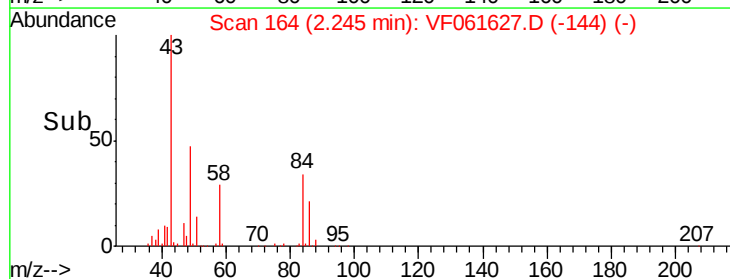
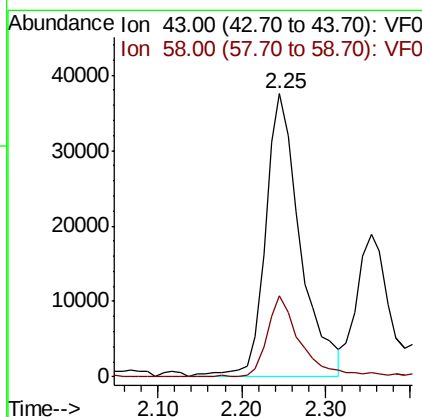
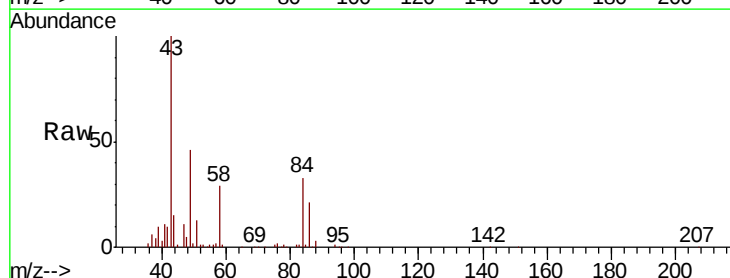
RT: 2.25 min Scan# 164

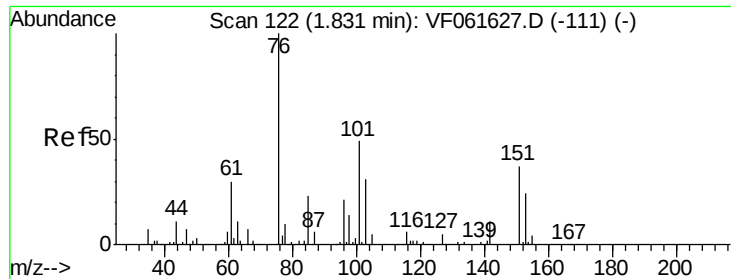
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	43	Resp:	108934
Ion	Ratio	Lower	Upper
43	100		
58	28.6	22.9	34.3





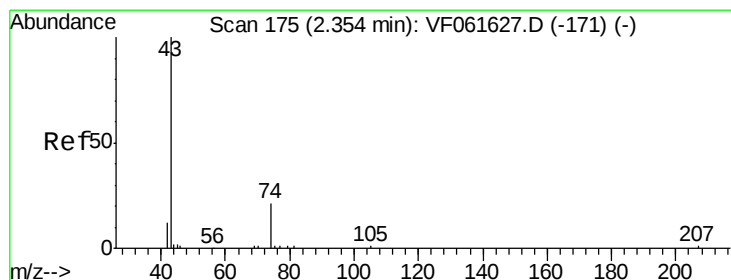
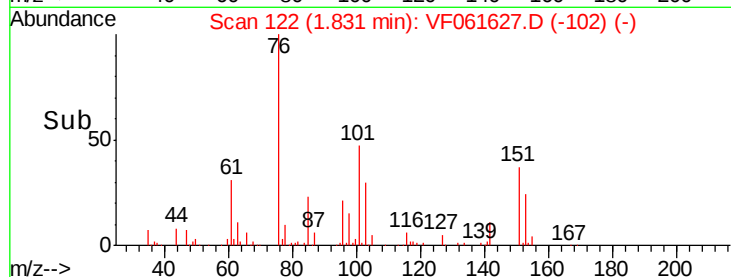
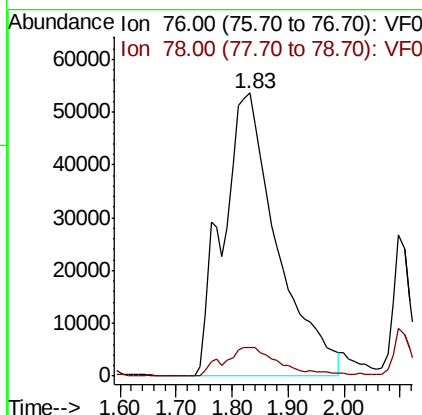
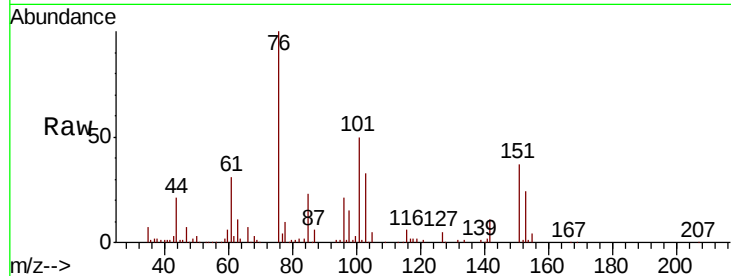
#17
Carbon Disulfide
Concen: 46.853 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.9	11.9

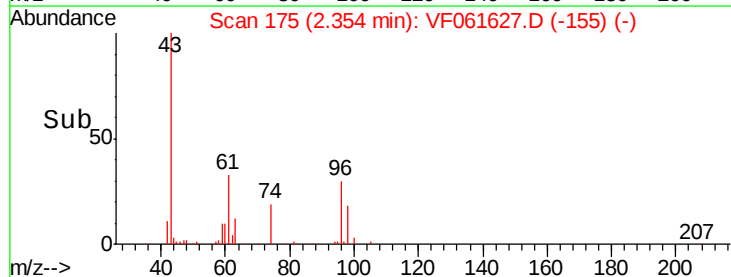
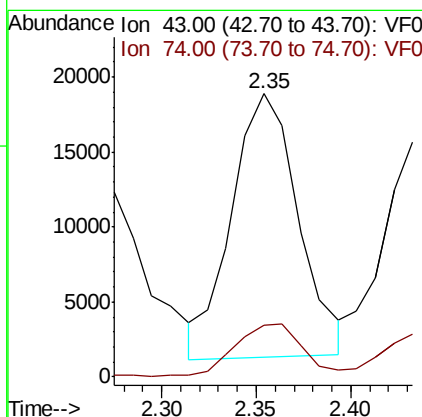
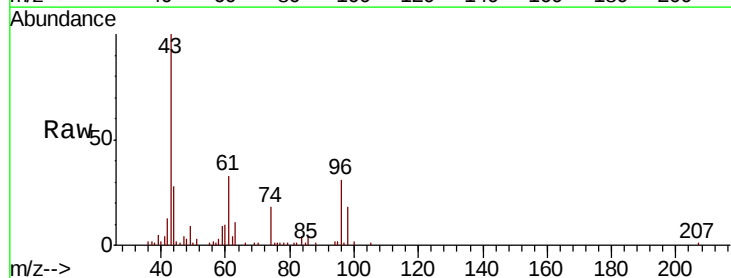
Manual Integrations
APPROVED

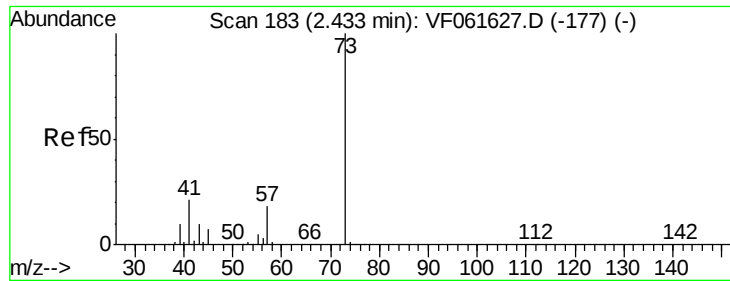
MMDadoda
2/14/2019 12:42:00 PM



#18
Methyl Acetate
Concen: 39.187 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.2	14.6	21.8





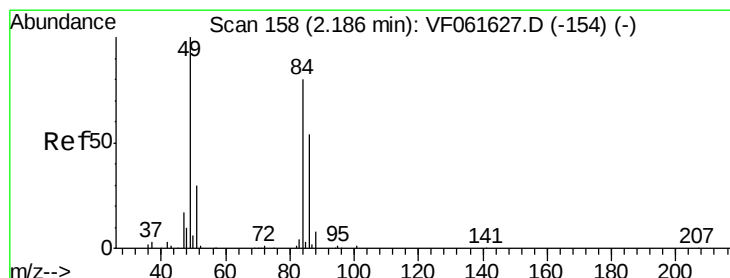
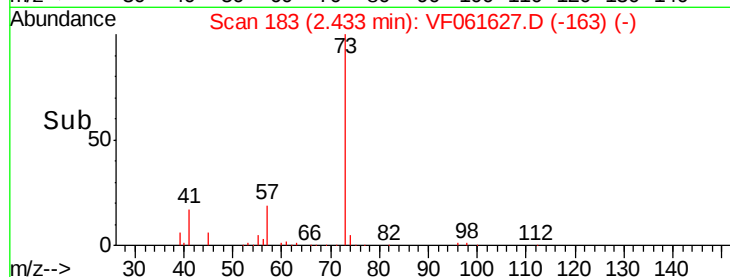
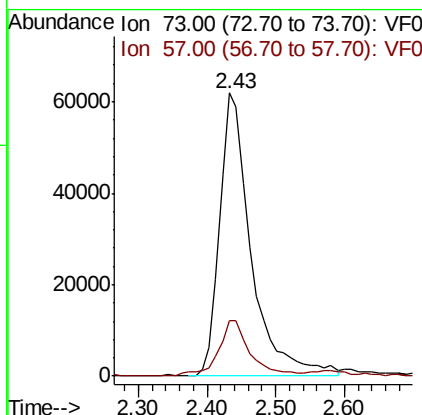
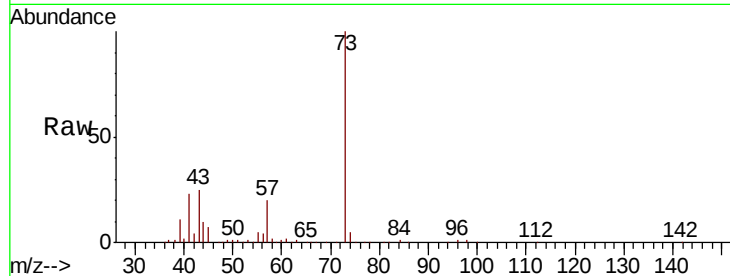
#19
Methyl tert-butyl Ether
Concen: 38.138 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.8	15.8	23.8

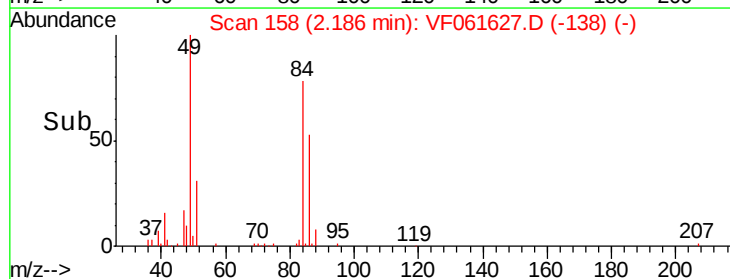
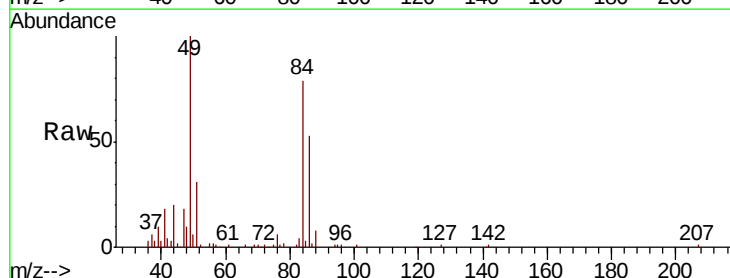
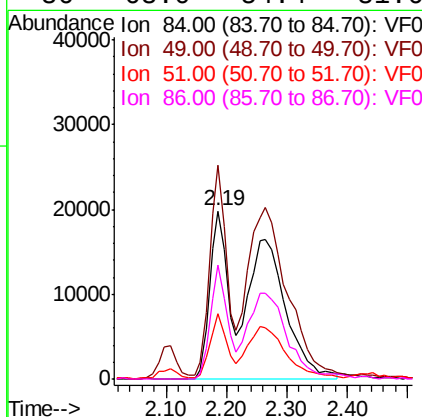
Manual Integrations
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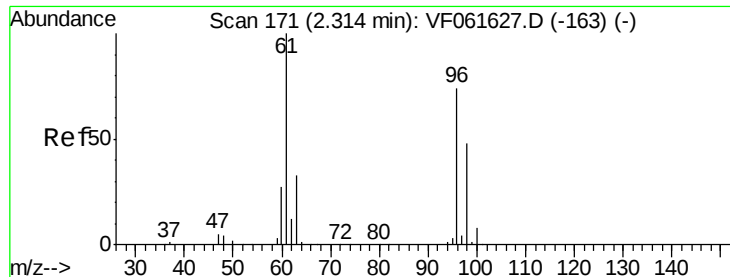
MMDadoda
2/14/2019 12:42:00 PM



#20
Methylene Chloride
Concen: 37.324 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.3	101.8	152.8
51	38.9	31.1	46.7
86	68.0	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 47.423 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

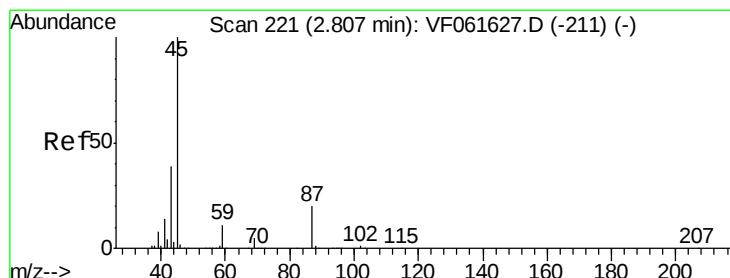
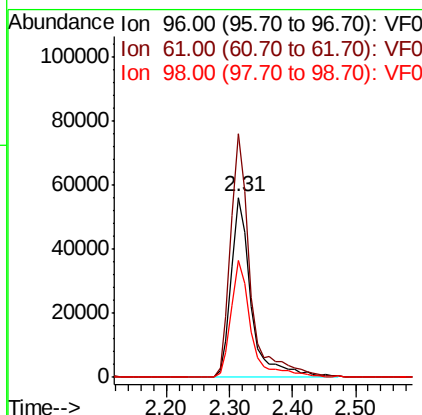
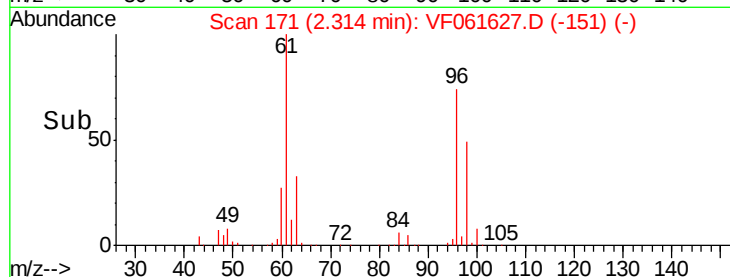
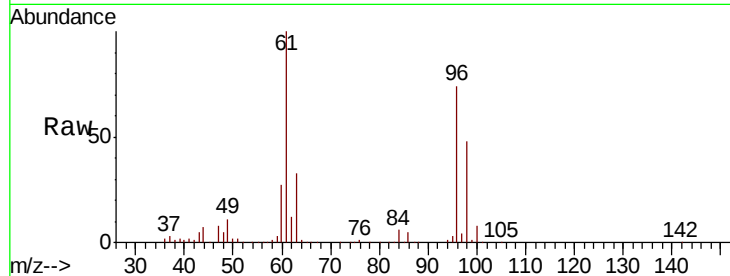
ClientSampleId :

VSTDICCC050

Tot Ion:	96	Resp:	123923
Ion	Ratio	Lower	Upper
96	100		
61	135.3	108.2	162.4
98	65.2	52.2	78.2

Manual Integrations
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2/14/2019 12:42:00 PM



#22

Diisopropyl ether

Concen: 39.830 ug/l

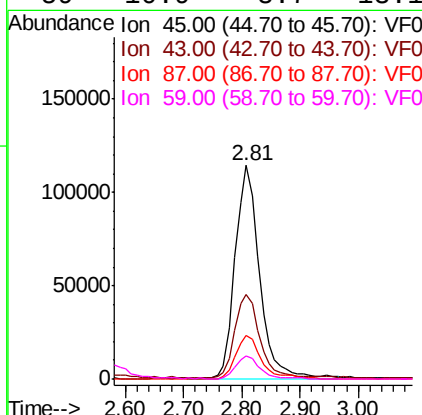
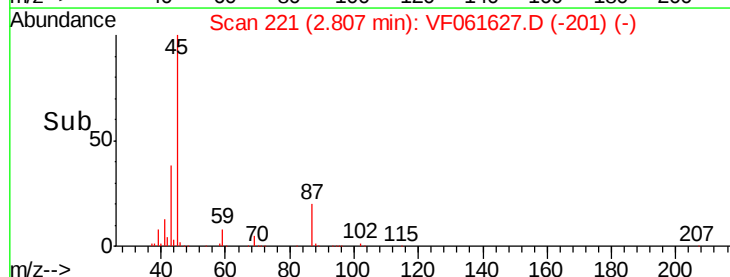
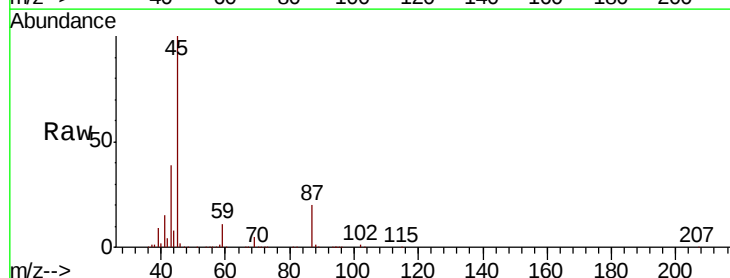
RT: 2.81 min Scan# 221

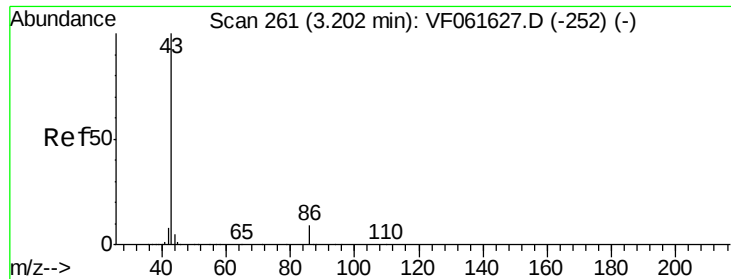
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	45	Resp:	335278
Ion	Ratio	Lower	Upper
45	100		
43	39.3	31.4	47.2
87	20.4	16.3	24.5
59	10.9	8.7	13.1





#23

Vinyl Acetate

Concen: 197.921 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 816568

Ion Ratio Lower Upper

43 100

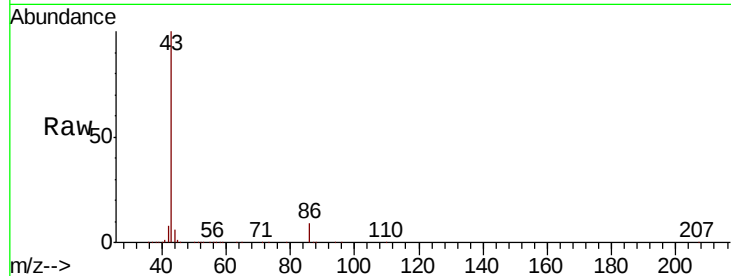
86 9.4 7.5 11.3

Manual Integrations

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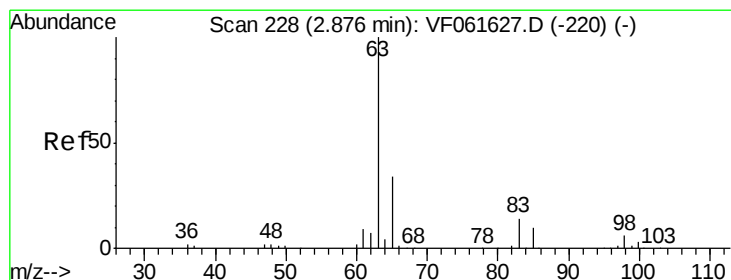
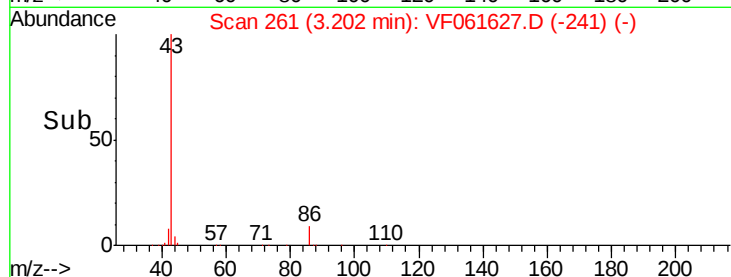
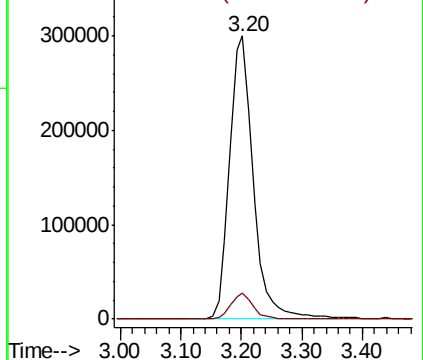
MMDadoda

2/14/2019 12:42:00 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 39.021 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

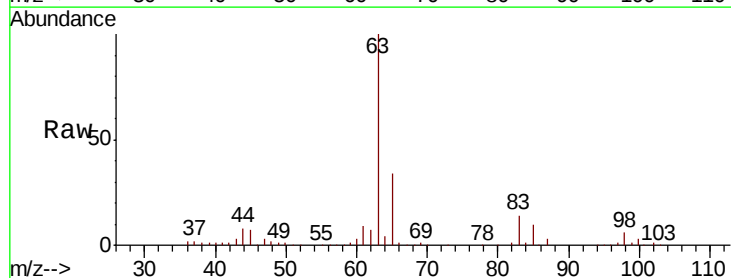
Tgt Ion: 63 Resp: 198415

Ion Ratio Lower Upper

63 100

98 5.5 2.8 8.3

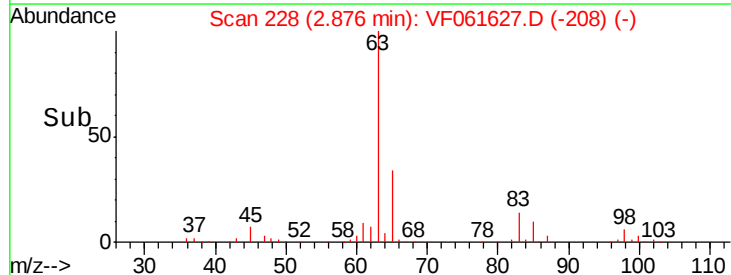
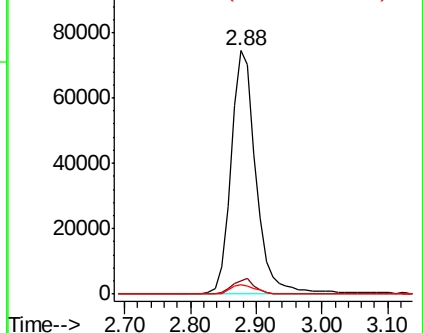
100 3.6 1.8 5.4

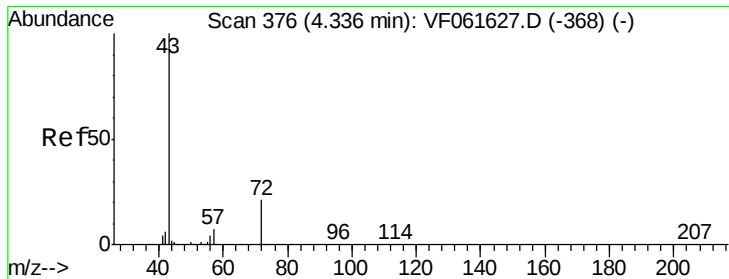


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 217.179 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 226255

Ion Ratio Lower Upper

43 100

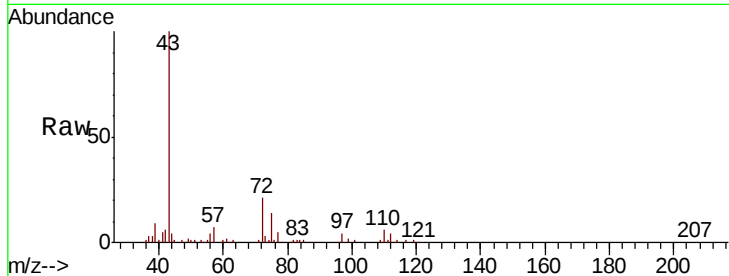
72 21.4 17.1 25.7

Manual Integrations

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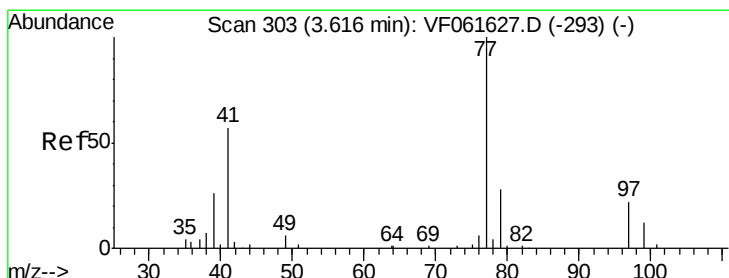
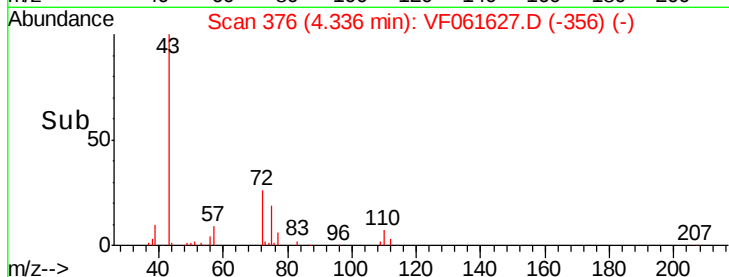
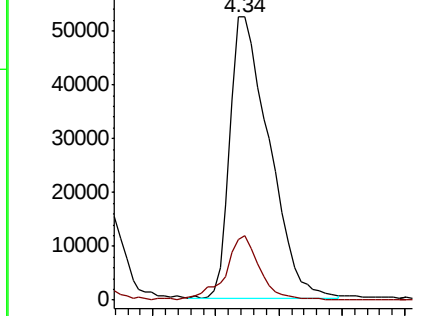
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 34.687 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.00 min

Lab File: VF061627.D

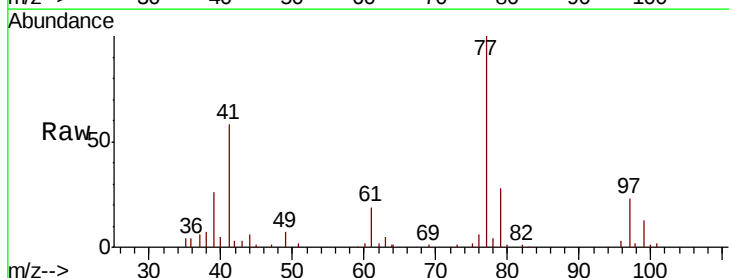
Acq: 13 Feb 2019 17:34

Tgt Ion: 77 Resp: 85939

Ion Ratio Lower Upper

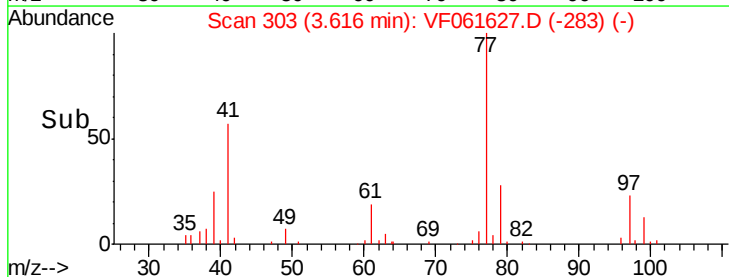
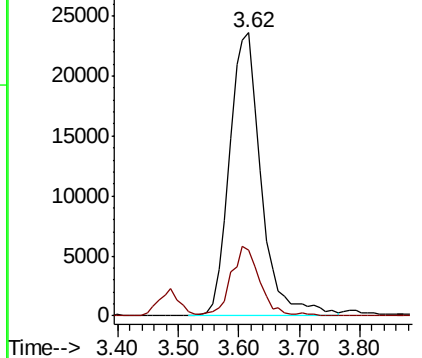
77 100

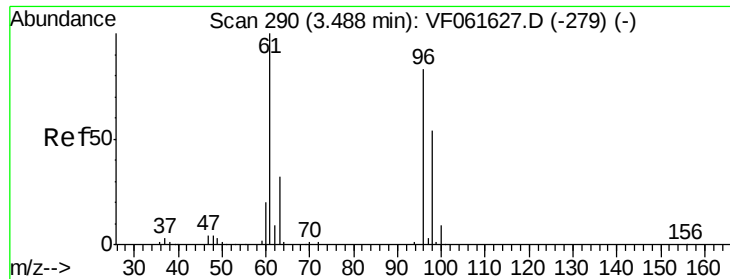
97 23.3 11.7 35.0



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

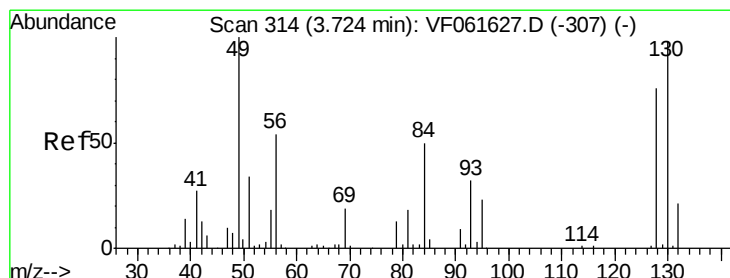
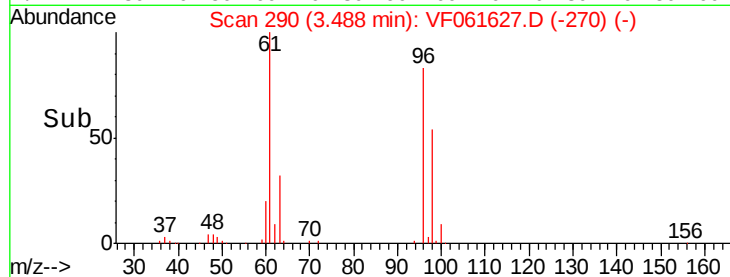
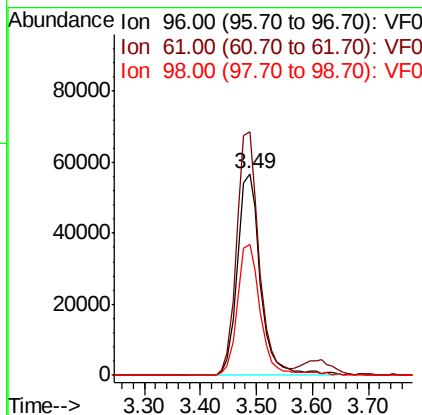
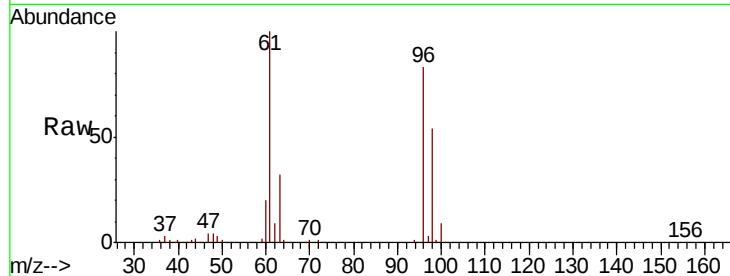
cis-1,2-Dichloroethene
 Concen: 43.539 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	120.8	0.0	241.6
98	65.1	0.0	130.2

Manual Integrations
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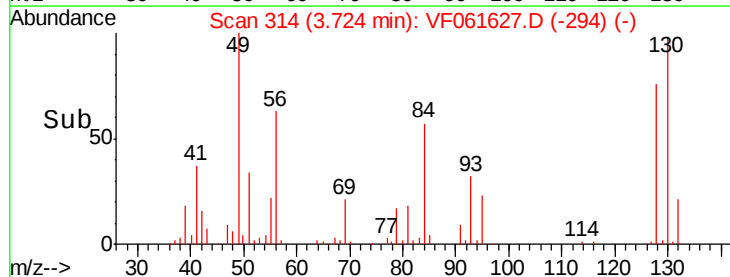
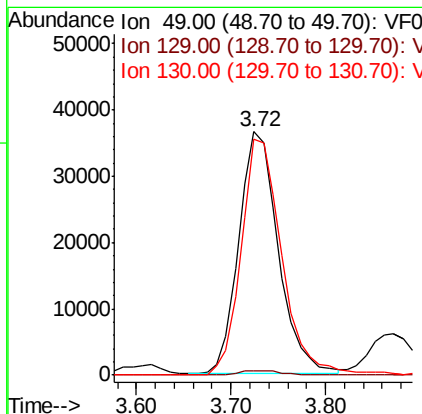
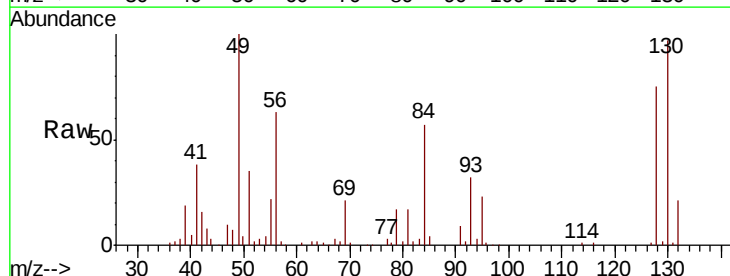
MMDadoda
 2/14/2019 12:42:00 PM

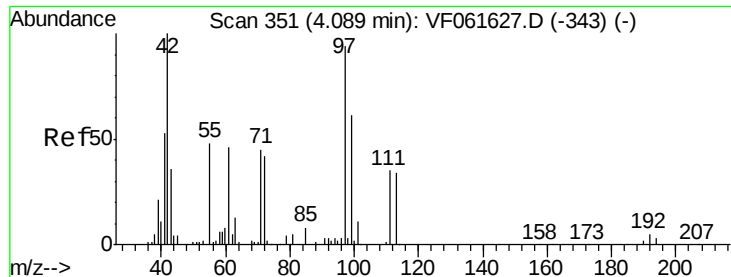


#28

Bromochloromethane
 Concen: 41.967 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	97.1	77.7	116.5





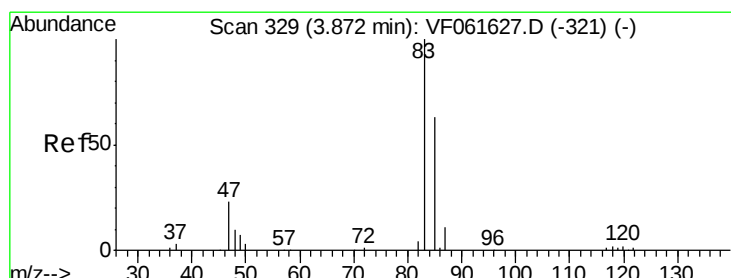
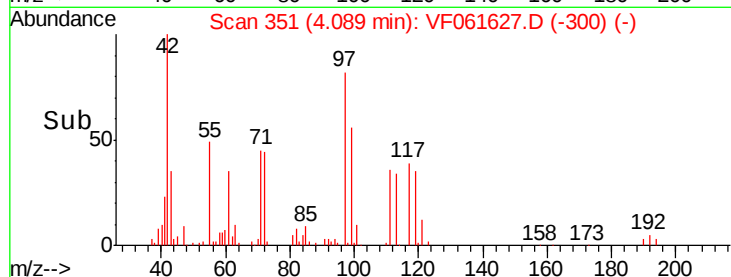
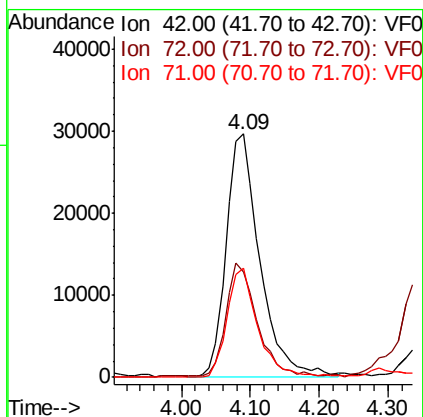
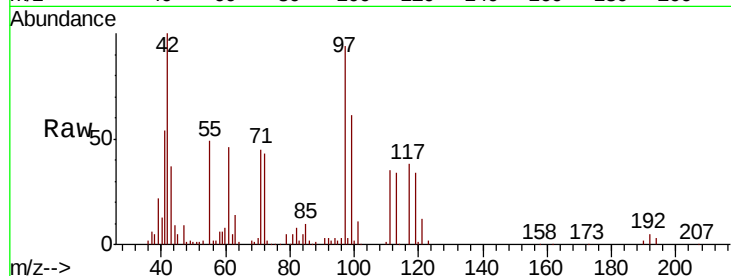
#29
Tetrahydrofuran
Concen: 207.378 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.0	35.2	52.8
71	41.1	32.9	49.3

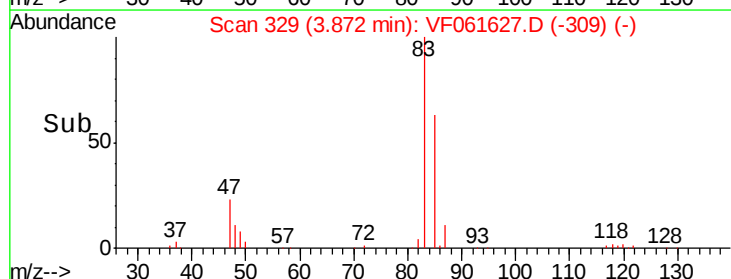
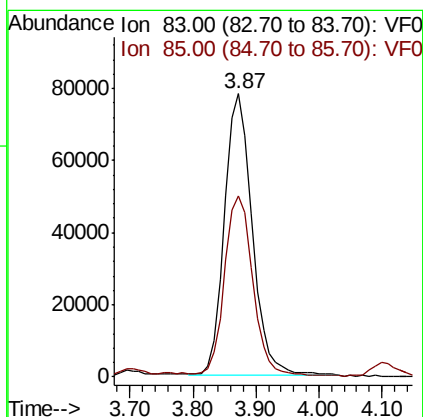
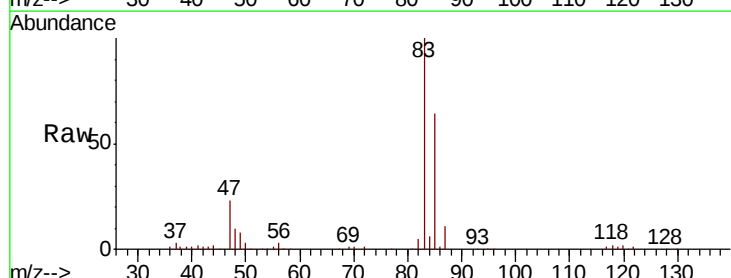
Manual Integrations
APPROVED

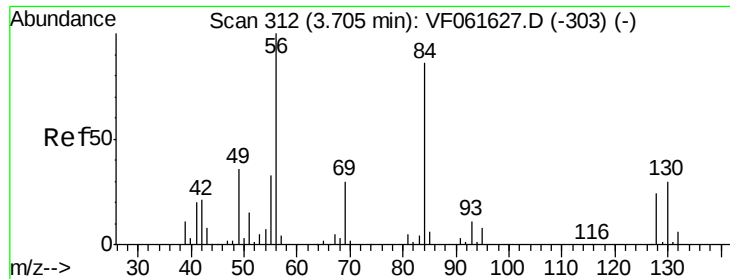
MMDadoda
2/14/2019 12:42:00 PM



#30
Chloroform
Concen: 34.377 ug/l
RT: 3.87 min Scan# 329
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7





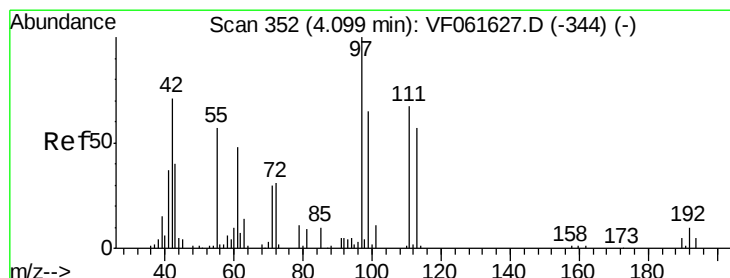
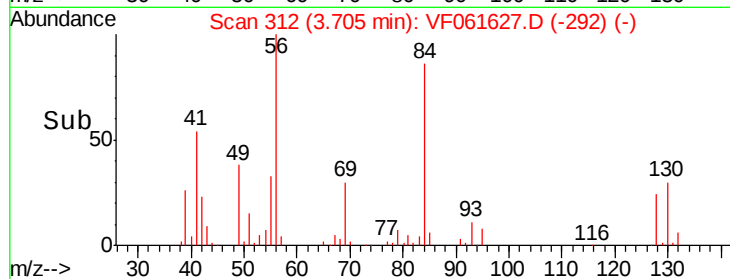
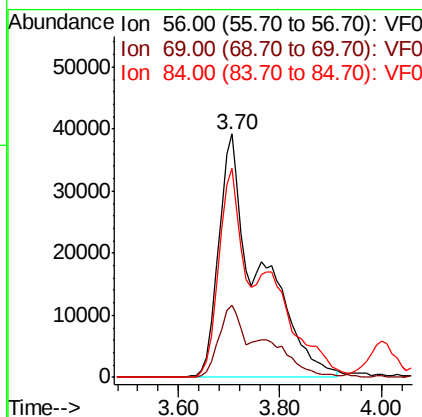
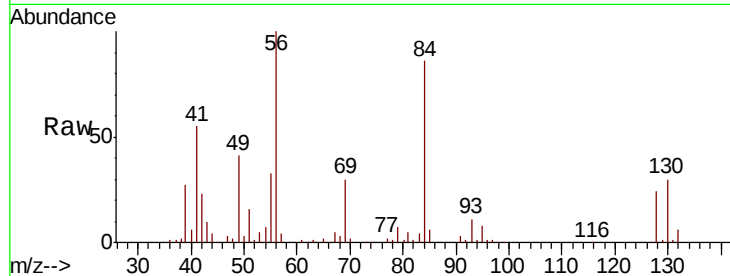
#31
Cyclohexane
Concen: 43.466 ug/l m
RT: 3.70 min Scan# 312
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.8	35.8
84	85.8	68.6	103.0

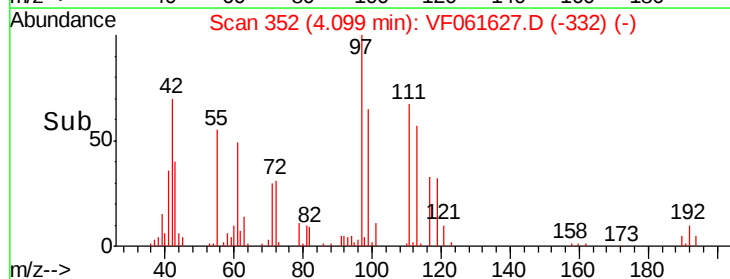
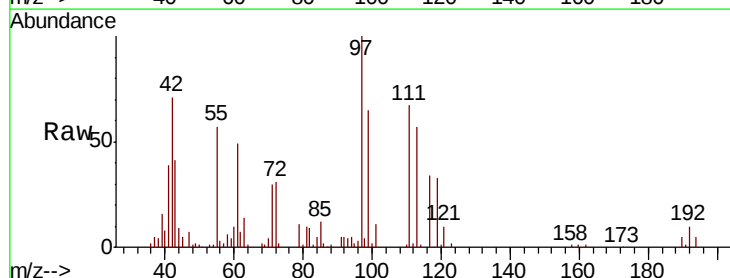
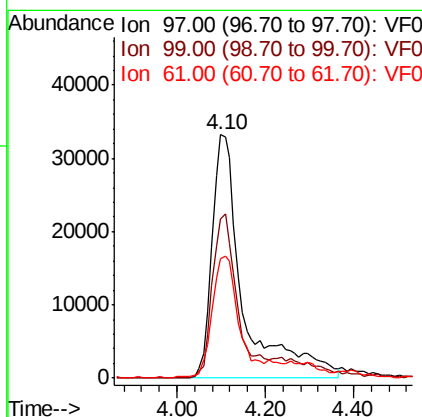
Manual Integrations
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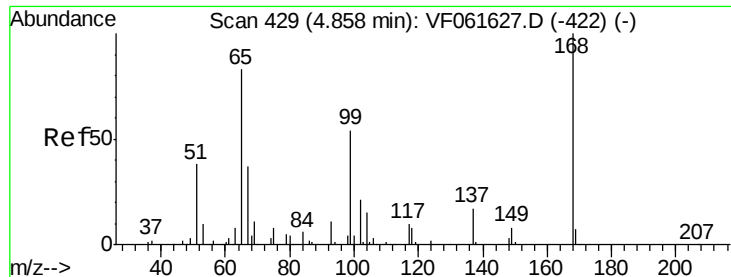
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 35.316 ug/l m
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.2	78.2
61	49.0	39.2	58.8





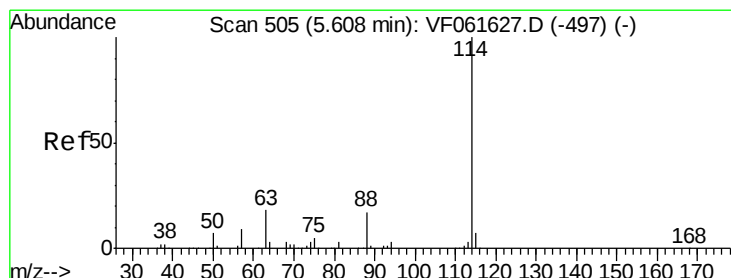
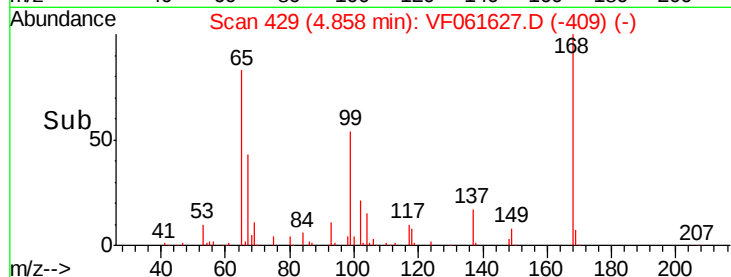
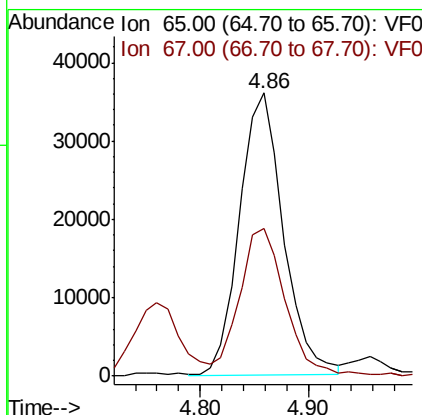
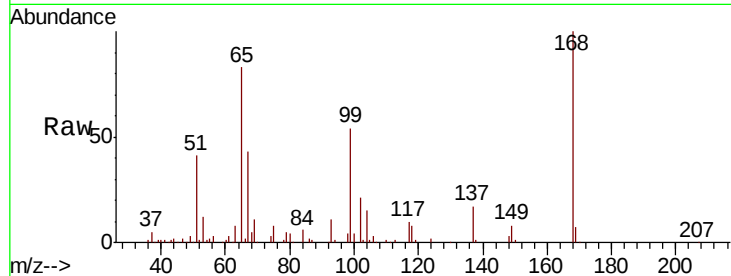
#33
 1,2-Dichloroethane-d4
 Concen: 29.962 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.0	0.0	104.0	

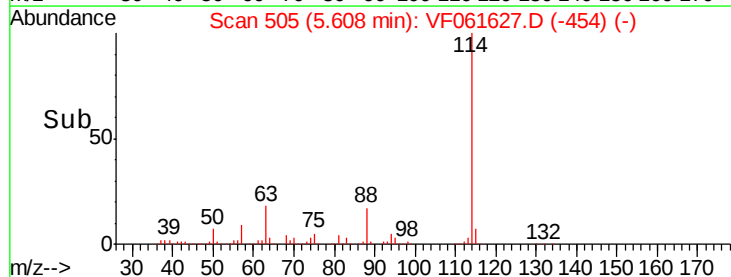
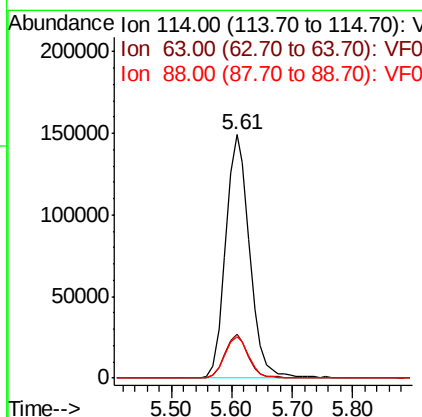
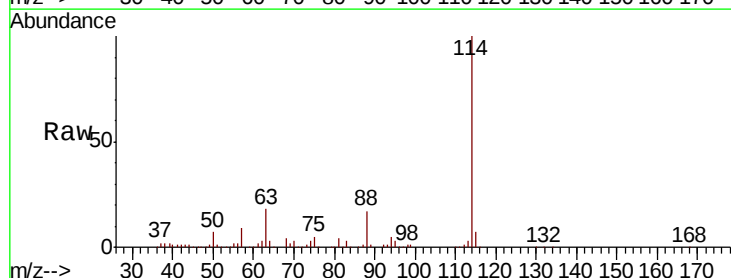
Manual Integrations
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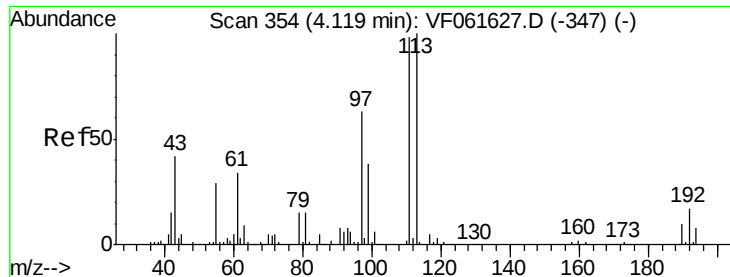
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 2/14/2019 12:42:00 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.3	0.0	36.6	
88	17.2	0.0	34.4	





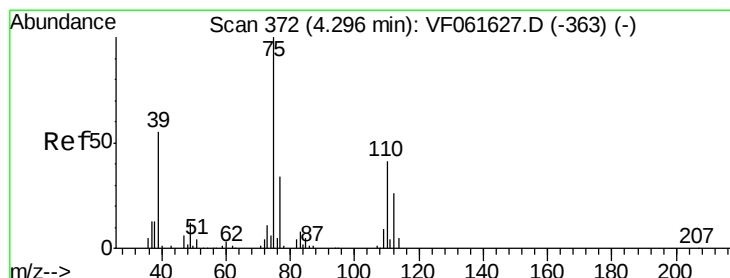
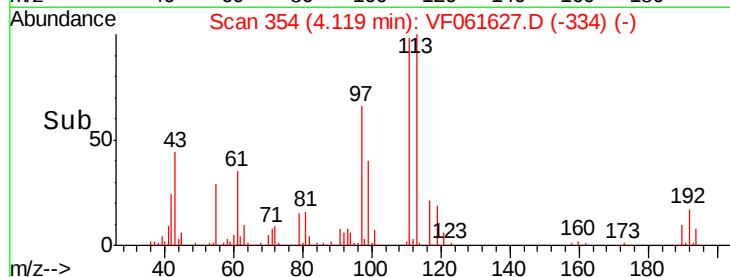
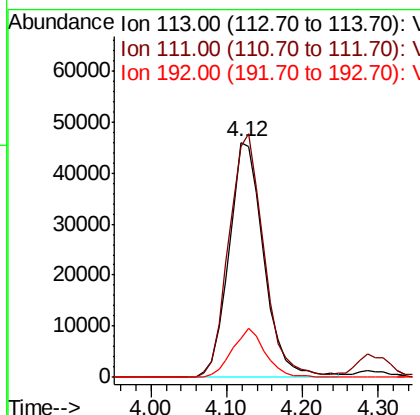
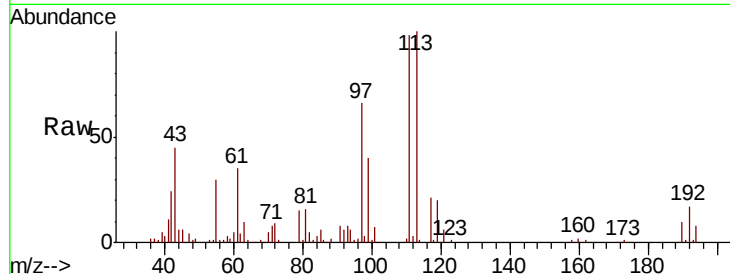
#35
 Dibromofluoromethane
 Concen: 45.445 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	146488		
111	98.5	78.8	118.2	
192	16.7	13.4	20.0	

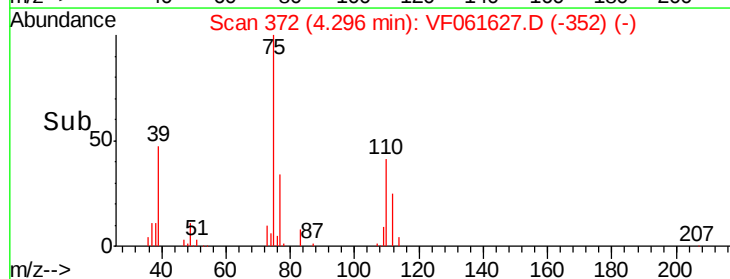
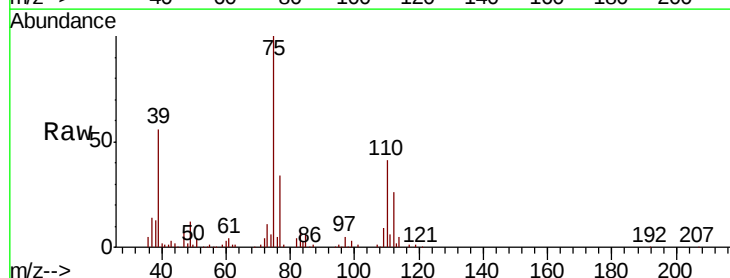
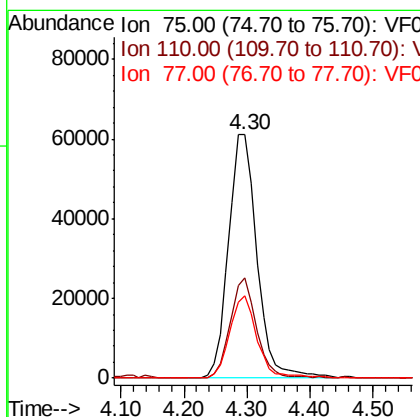
Manual Integrations
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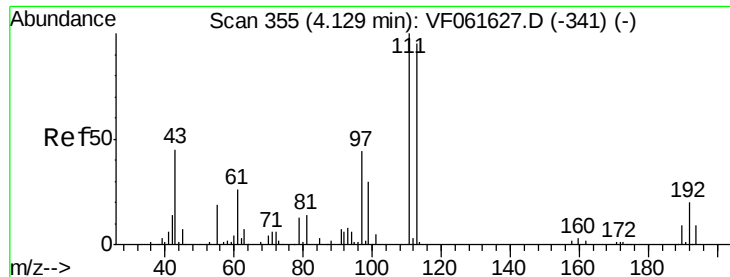
MMDadoda
 2/14/2019 12:42:00 PM



#36
 1,1-Dichloropropene
 Concen: 41.790 ug/l
 RT: 4.30 min Scan# 372
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	191213		
110	41.1	20.5	61.6	
77	33.7	27.0	40.4	





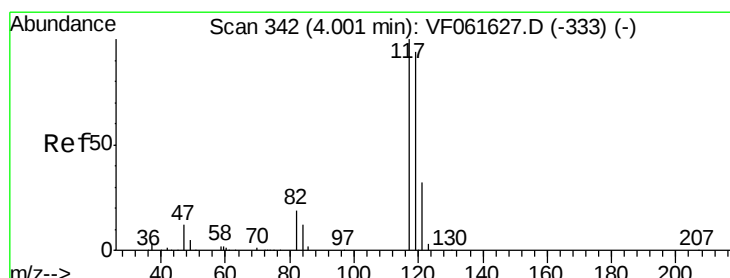
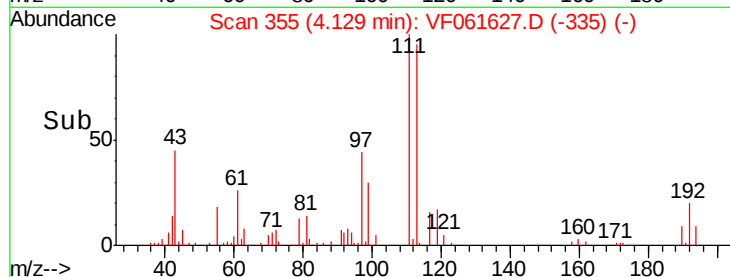
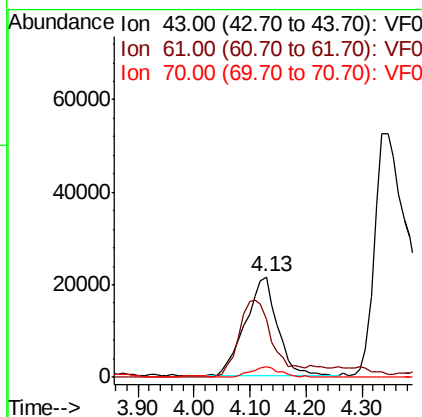
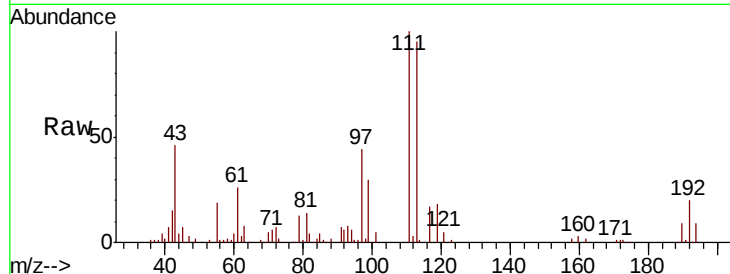
#37
Ethyl Acetate
Concen: 42.005 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	57.1	45.7	68.5
70	10.6	8.5	12.7

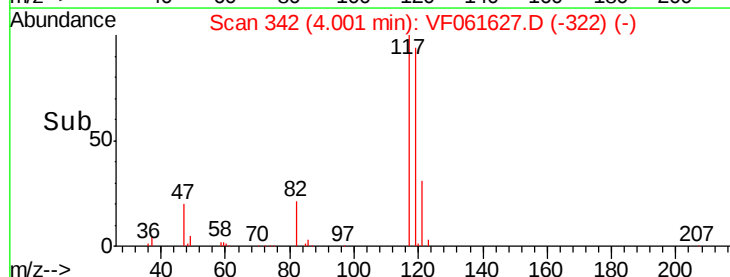
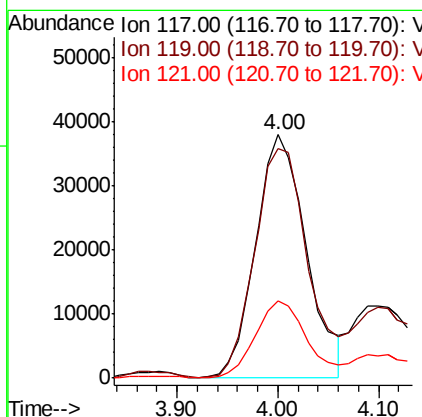
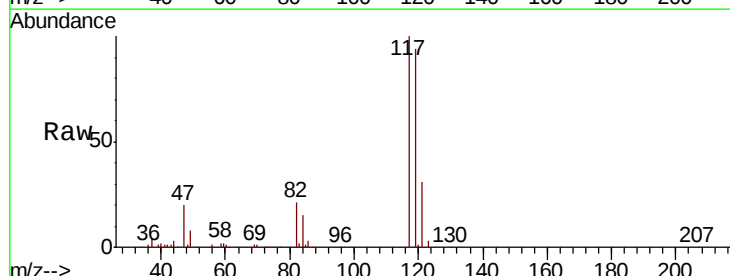
Manual Integrations
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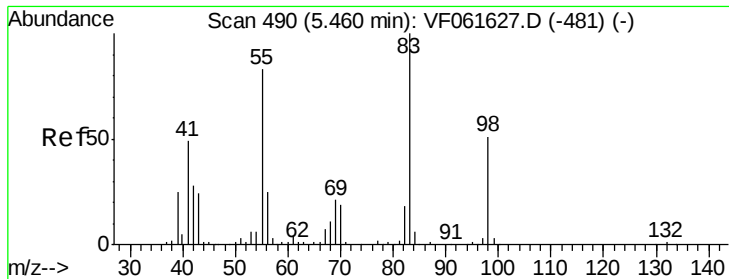
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2/14/2019 12:42:00 PM



#38
Carbon Tetrachloride
Concen: 35.066 ug/l
RT: 4.00 min Scan# 342
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	31.5	25.2	37.8





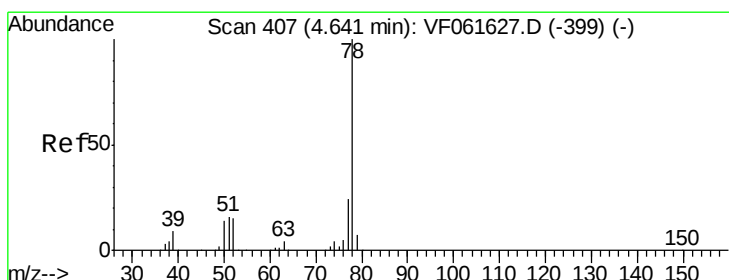
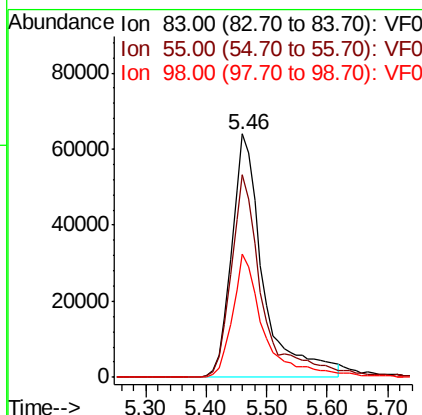
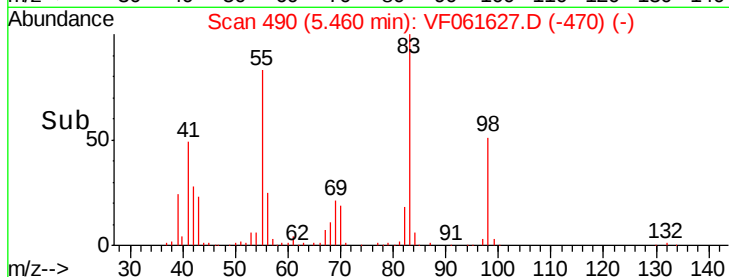
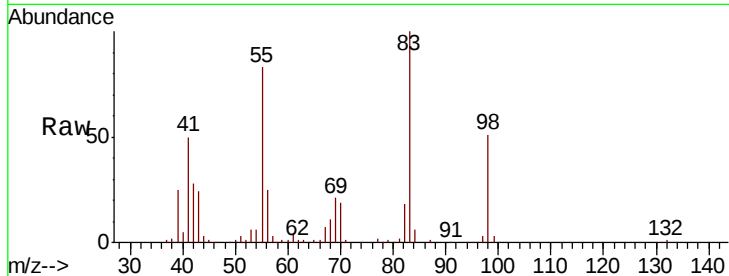
#39
Methylvlcyclohexane
Concen: 50.035 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	83.00	Resp	232505
Ion	Ratio	Lower	Upper
83	100		
55	83.2	66.6	99.8
98	50.5	40.4	60.6

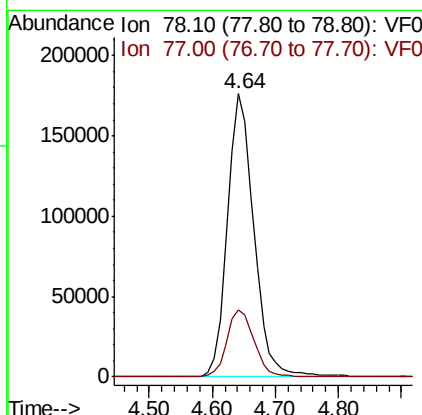
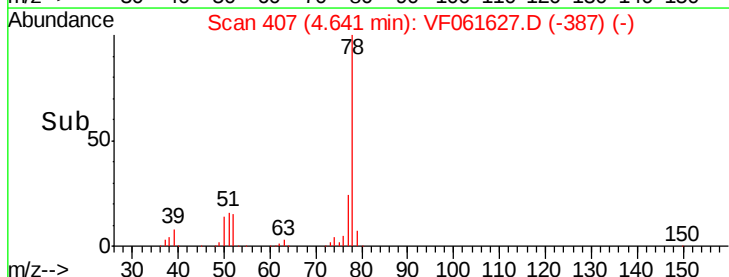
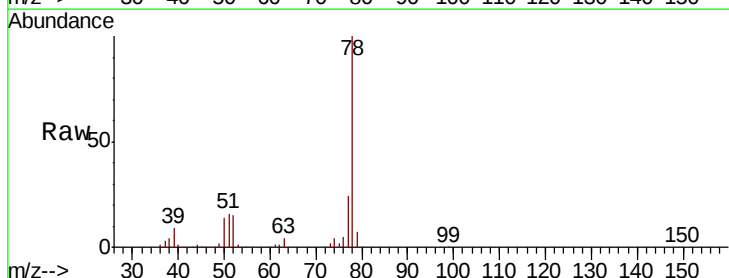
Manual Integrations
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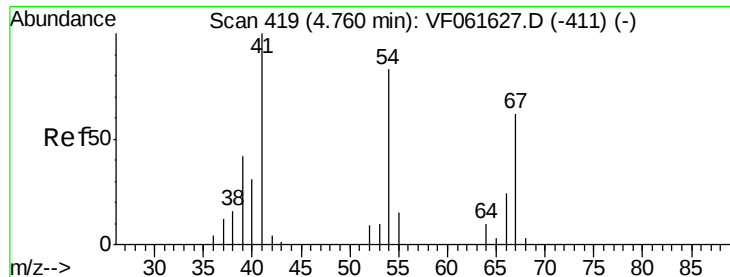
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#40
Benzene
Concen: 49.734 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	78	Resp	509962
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





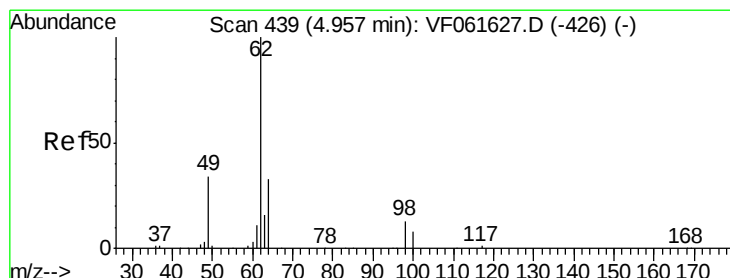
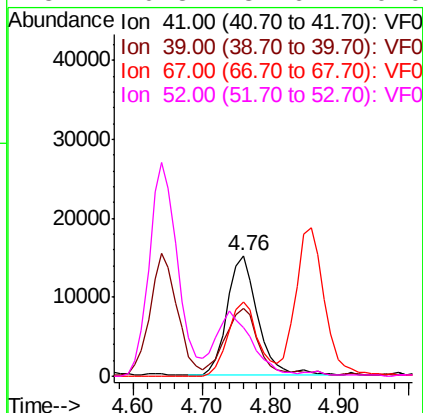
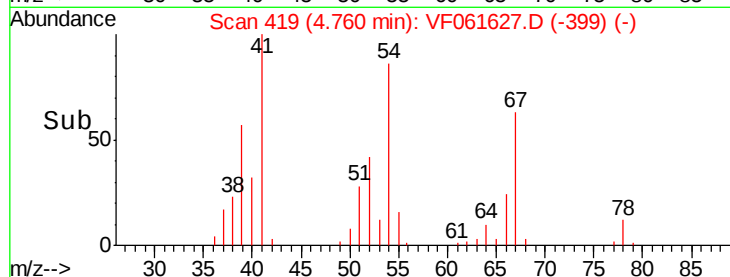
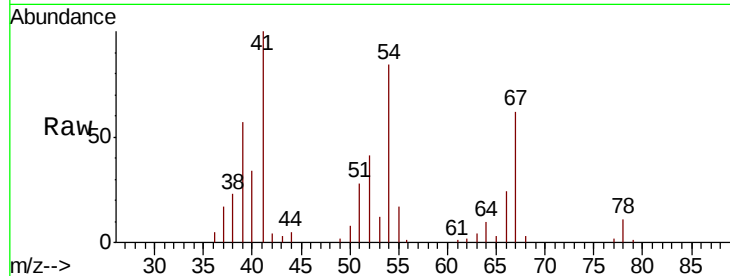
#41
Methacrylonitrile
Concen: 45.783 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	41	Resp	46157
Ion	Ratio	Lower	Upper
41	100		
39	56.6	45.3	67.9
67	61.6	49.3	73.9
52	40.8	32.6	49.0

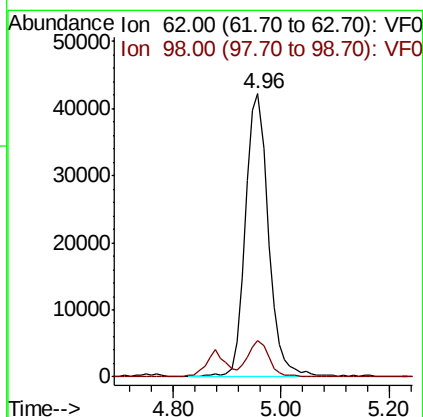
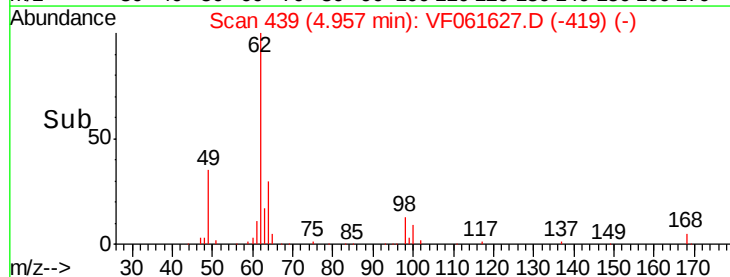
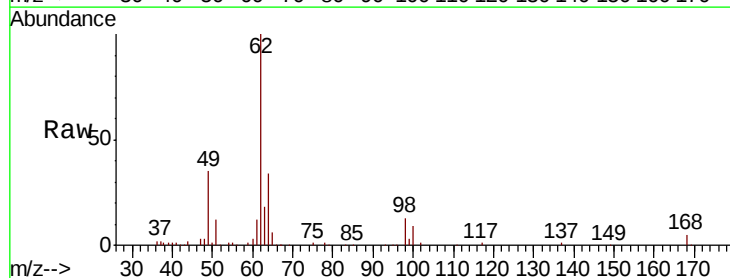
Manual Integrations
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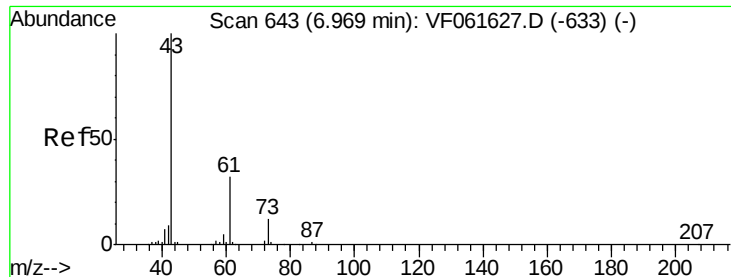
MMDadoda
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#42
1,2-Dichloroethane
Concen: 35.240 ug/l
RT: 4.96 min Scan# 439
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	62	Resp	125024
Ion	Ratio	Lower	Upper
62	100		
98	13.0	0.0	26.0





#43

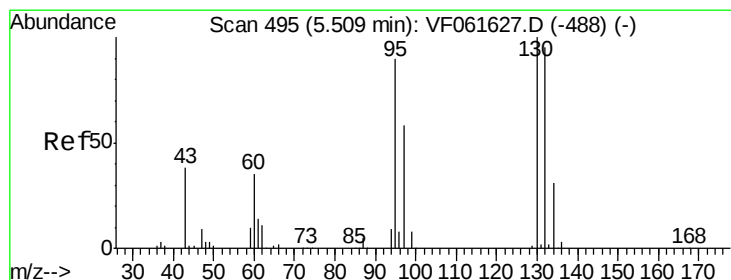
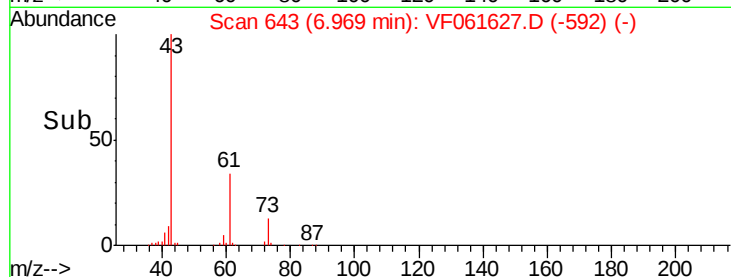
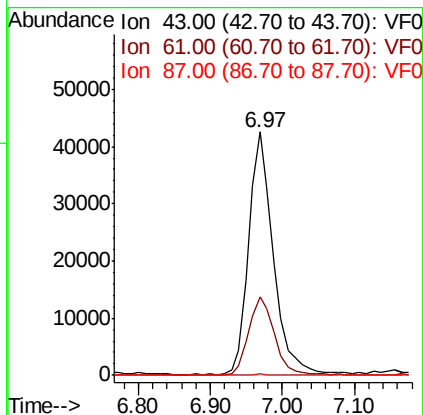
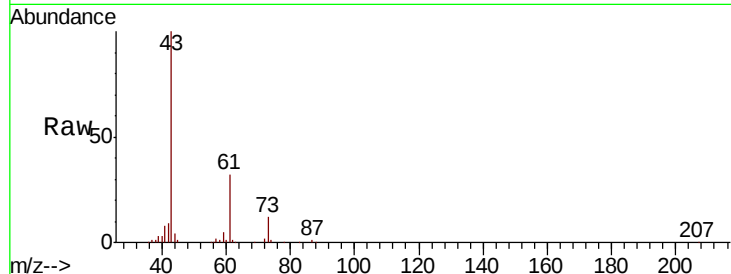
Isopropyl Acetate
 Concen: 44.305 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.2	25.8	38.6
87	0.5	0.4	0.6

Manual Integrations
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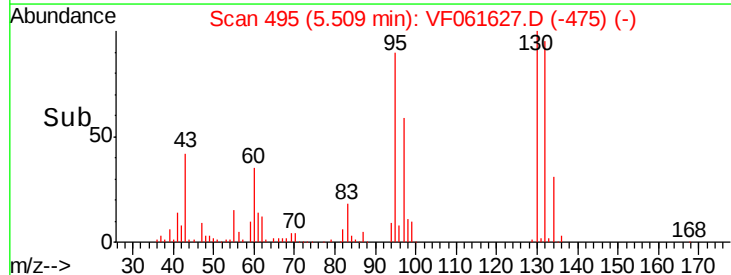
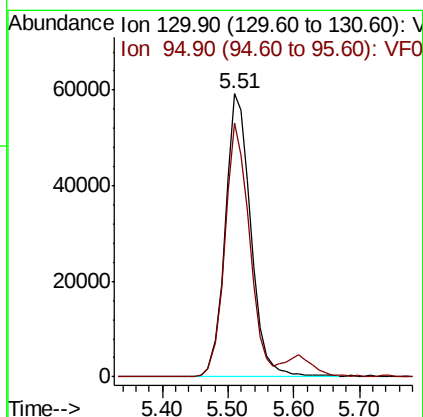
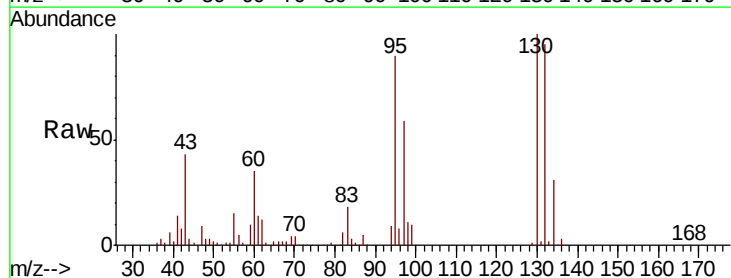
MMDadoda
 2/14/2019 12:42:00 PM

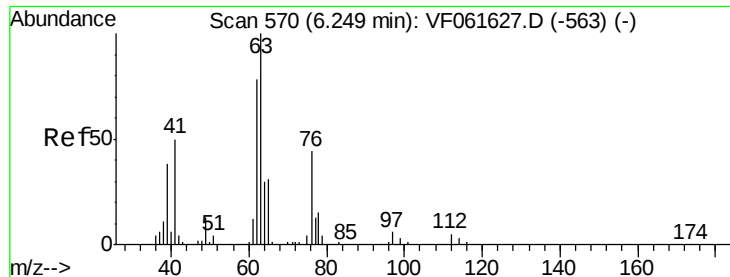


#44

Trichloroethene
 Concen: 51.596 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.7	0.0	179.4





#45

1,2-Dichloropropane

Concen: 47.724 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 63 Resp: 126234

Ion Ratio Lower Upper

63 100

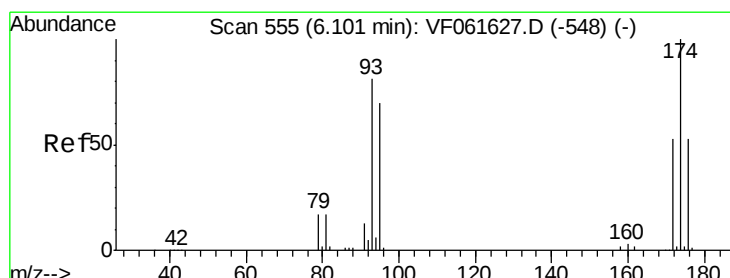
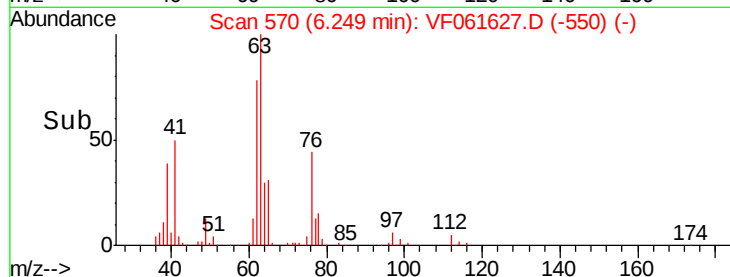
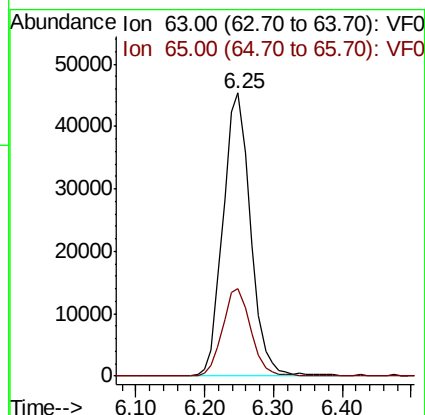
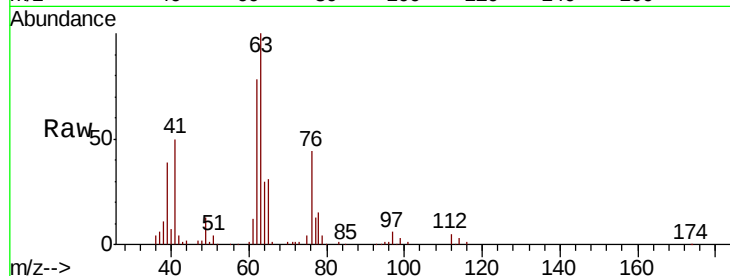
65 31.1 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 46.263 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

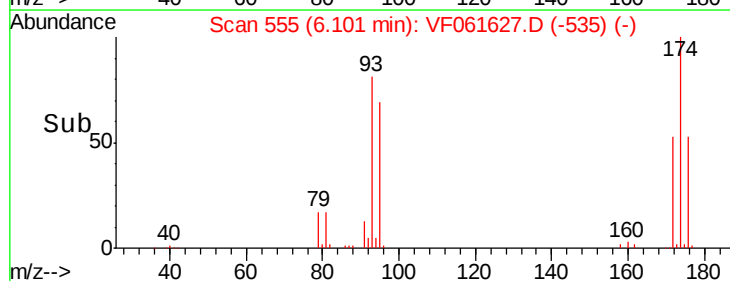
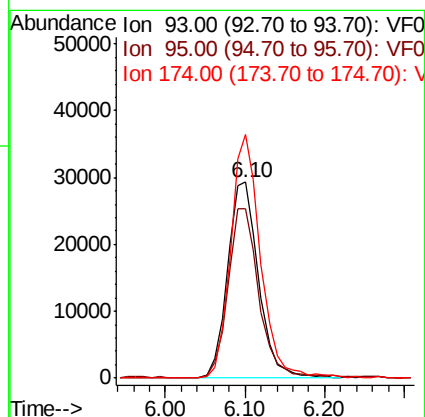
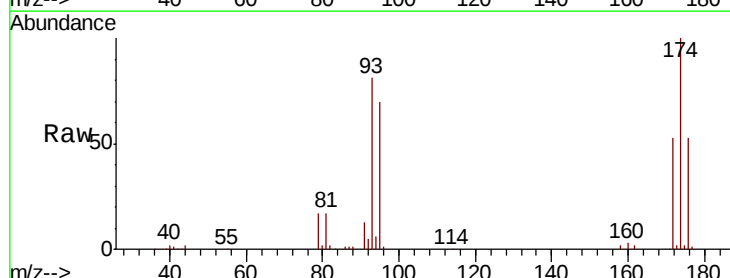
Tgt Ion: 93 Resp: 79934

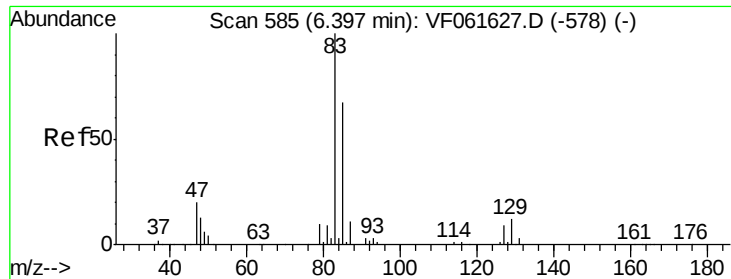
Ion Ratio Lower Upper

93 100

95 86.3 69.0 103.6

174 124.1 99.3 148.9





#47

Bromodichloromethane

Concen: 39.638 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

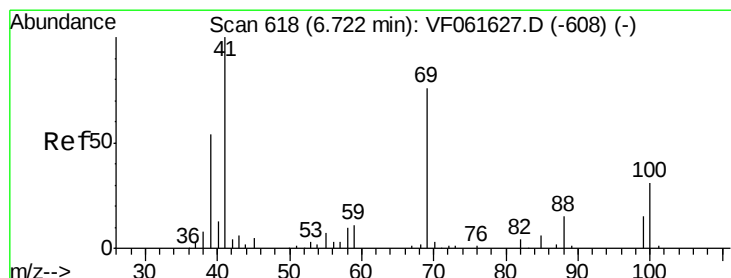
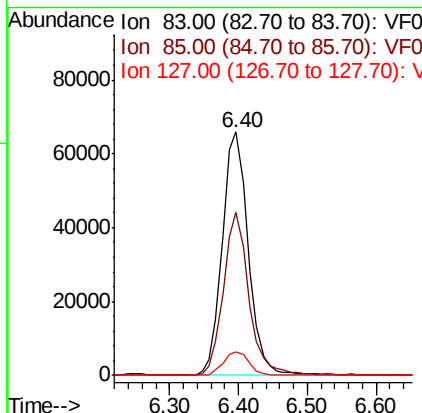
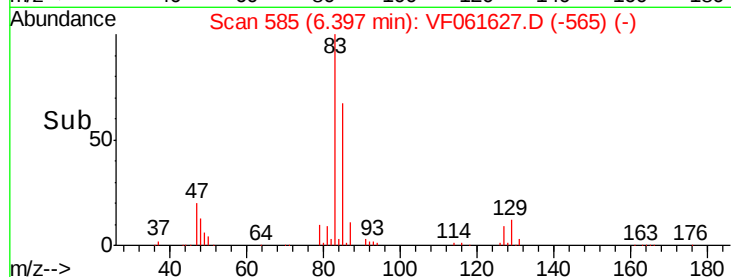
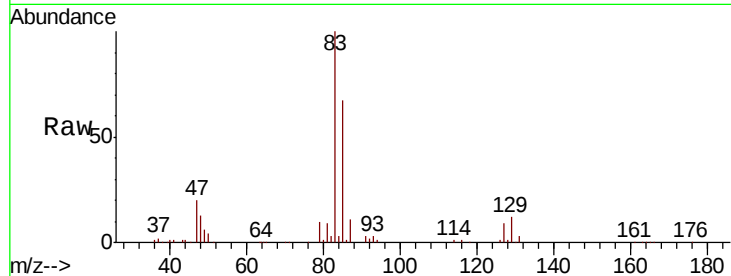
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	172796
Ion	Ratio	Lower	Upper
83	100		
85	66.8	53.4	80.2
127	9.4	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 42.522 ug/l

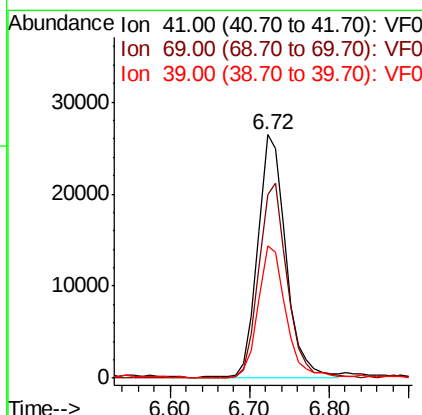
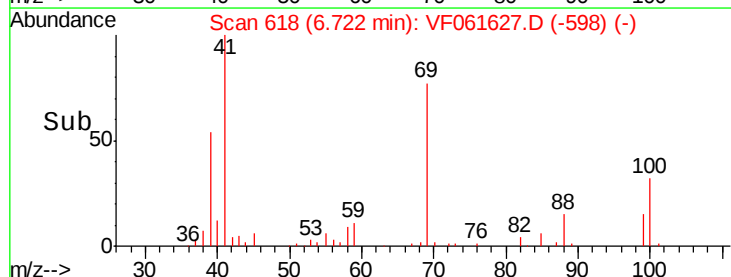
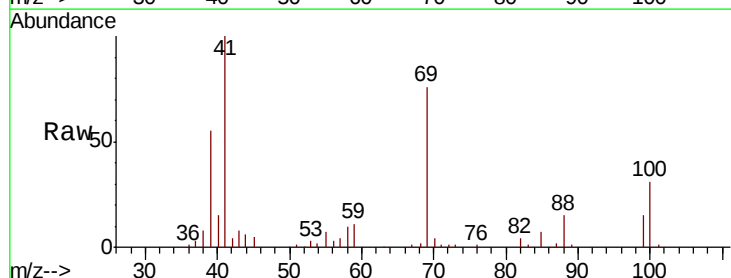
RT: 6.72 min Scan# 618

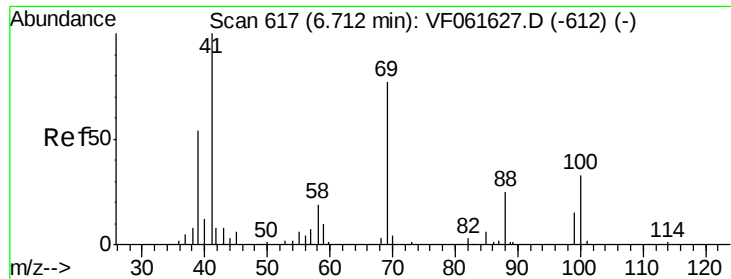
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	41	Resp:	64875
Ion	Ratio	Lower	Upper
41	100		
69	75.5	60.4	90.6
39	54.6	43.7	65.5





#49

1,4-Dioxane

Concen: 1188.998 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

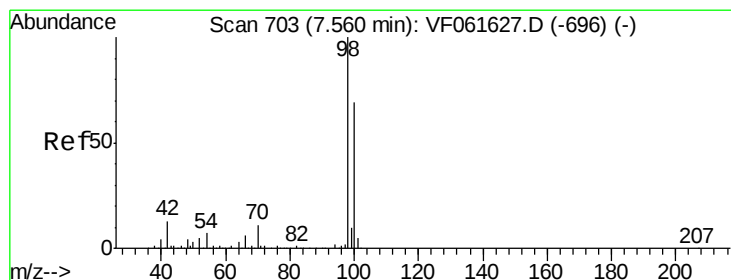
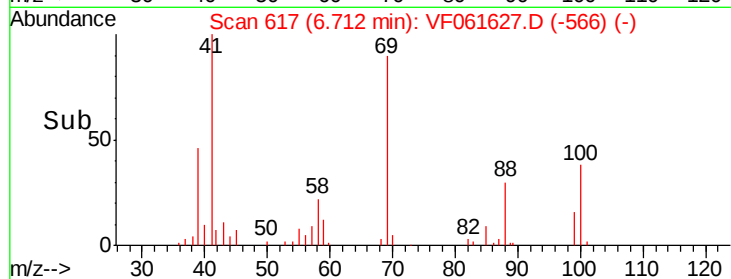
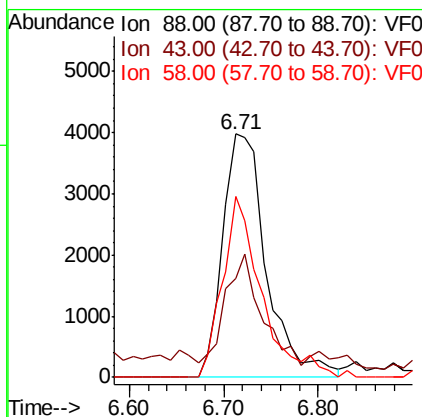
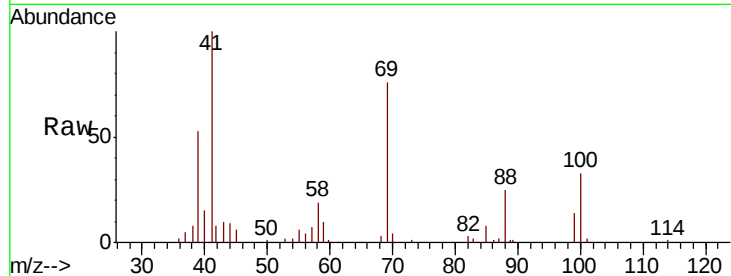
ClientSampleId :

VSTDICCC050

Tot Ion:	88	Resp:	12734
Ion	Ratio	Lower	Upper
88	100		
43	40.4	32.3	48.5
58	74.3	59.4	89.2

Manual Integrations
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#50

Toluene-d8

Concen: 50.411 ug/l

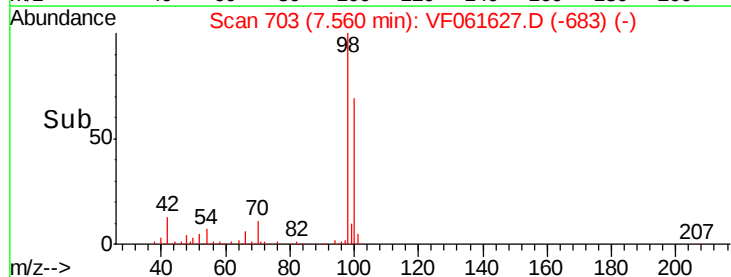
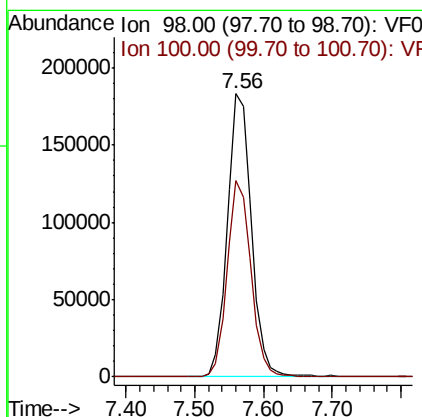
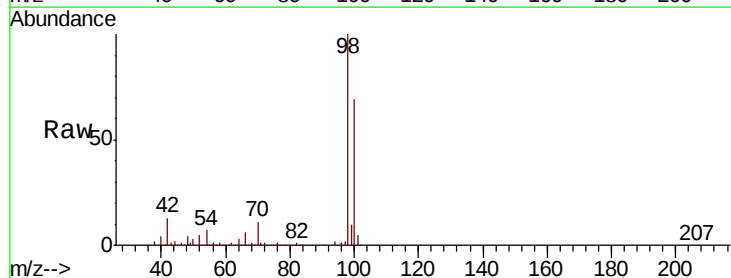
RT: 7.56 min Scan# 703

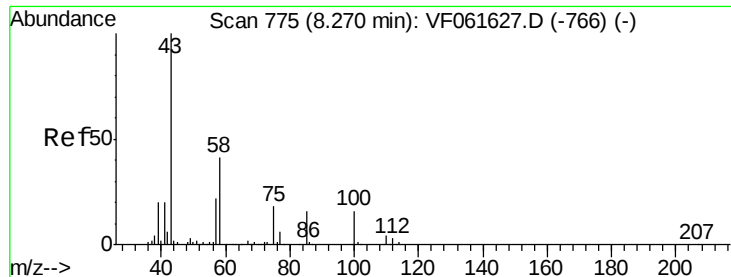
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	98	Resp:	444139
Ion	Ratio	Lower	Upper
98	100		
100	69.3	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 222.407 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 382030

Ion Ratio Lower Upper

43 100

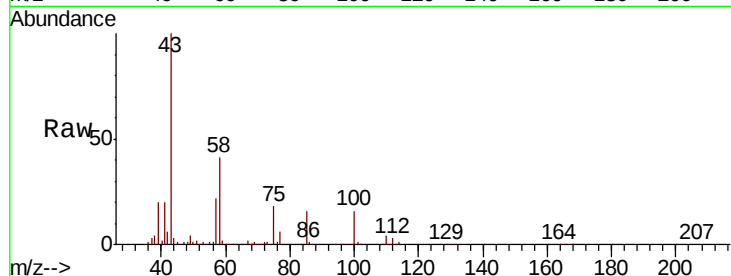
58 41.4 33.1 49.7

Manual Integrations

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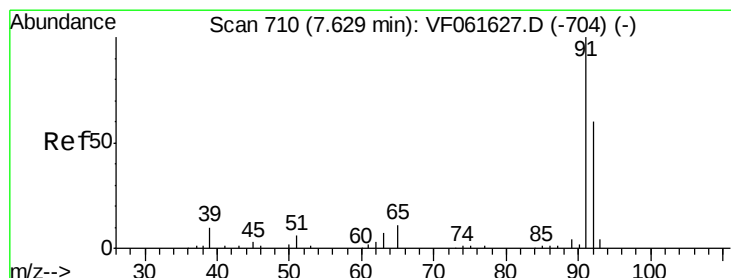
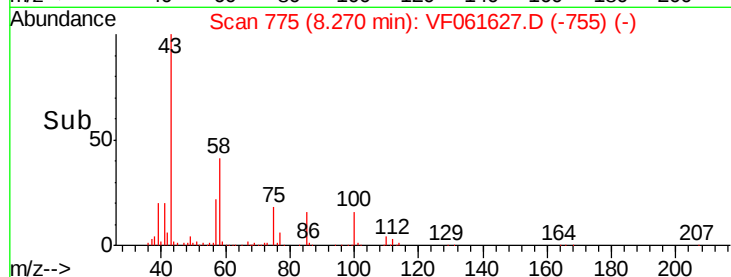
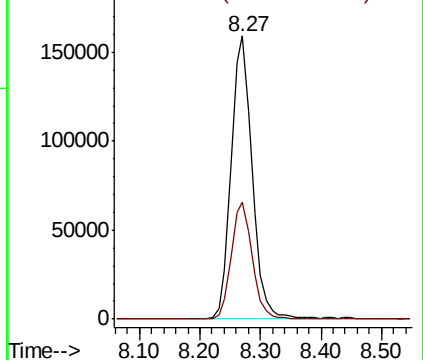
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 45.944 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061627.D

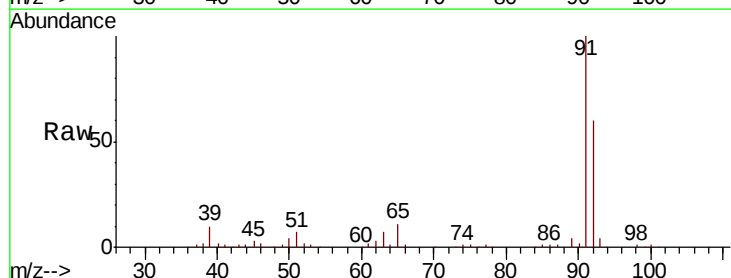
Acq: 13 Feb 2019 17:34

Tgt Ion: 92 Resp: 294154

Ion Ratio Lower Upper

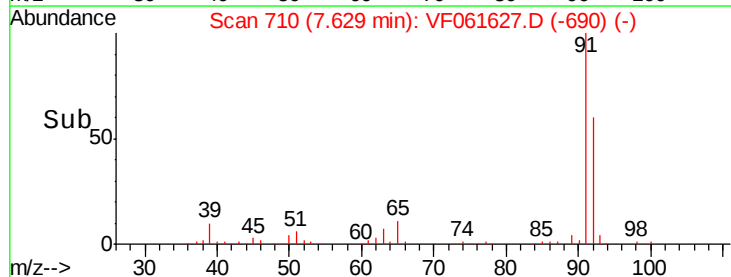
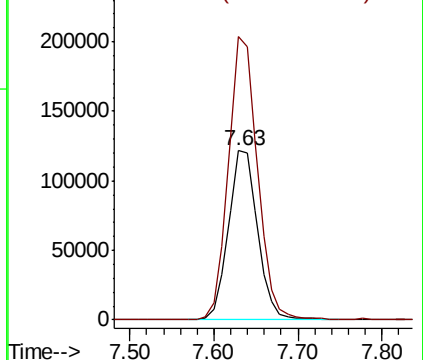
92 100

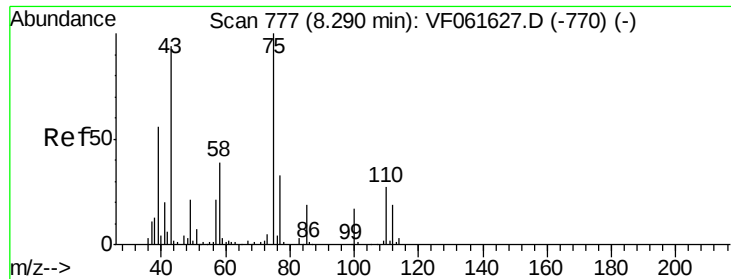
91 167.4 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 40.811 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 75 Resp: 137679

Ion Ratio Lower Upper

75 100

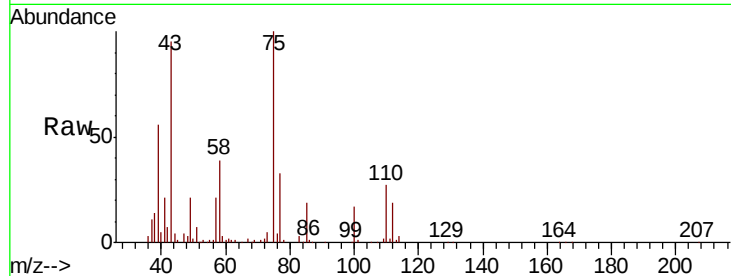
77 32.7 26.2 39.2

Manual Integrations

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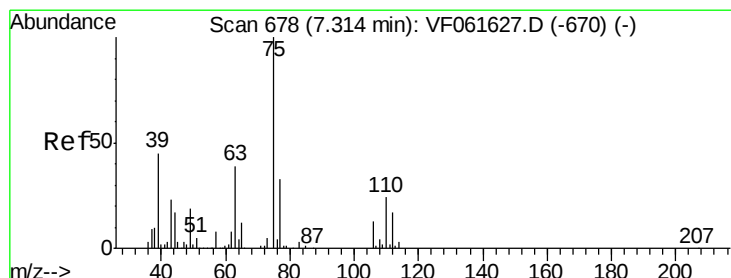
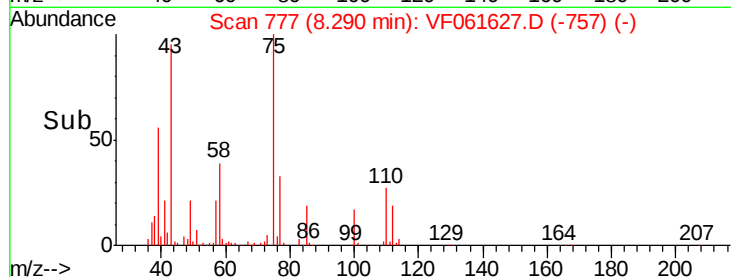
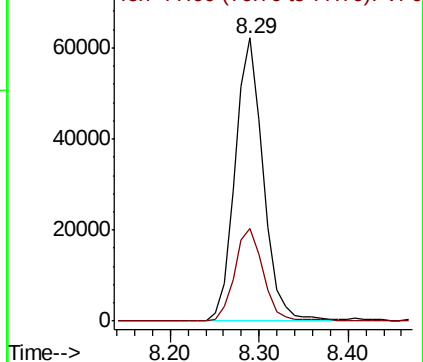
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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 43.050 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

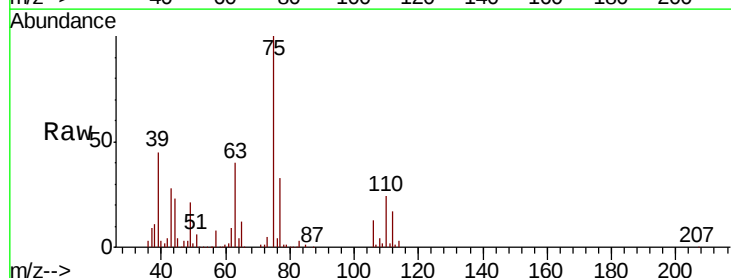
Tgt Ion: 75 Resp: 184065

Ion Ratio Lower Upper

75 100

77 33.0 26.4 39.6

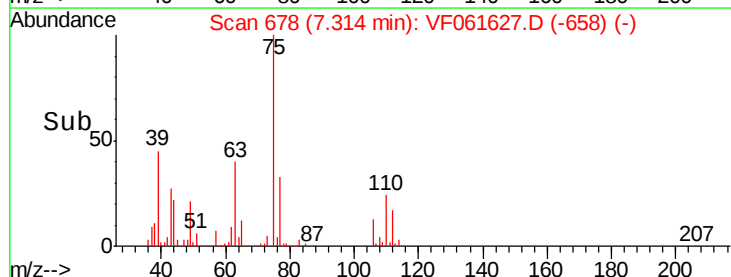
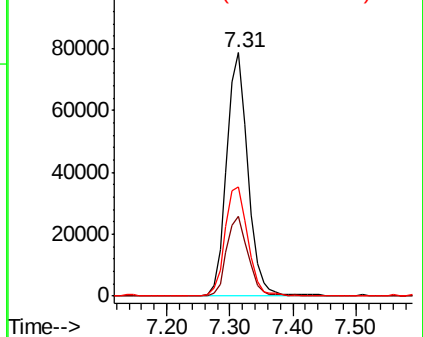
39 45.0 36.0 54.0

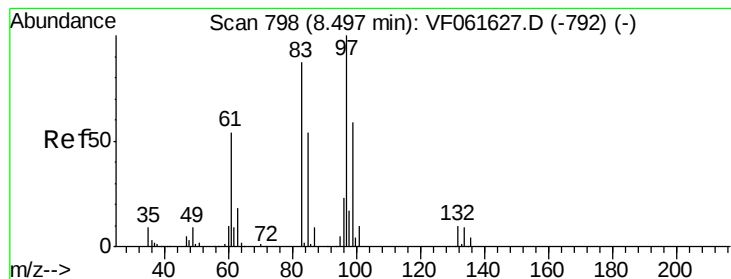


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 47.370 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

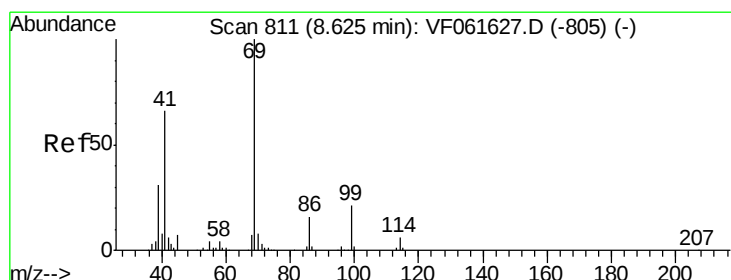
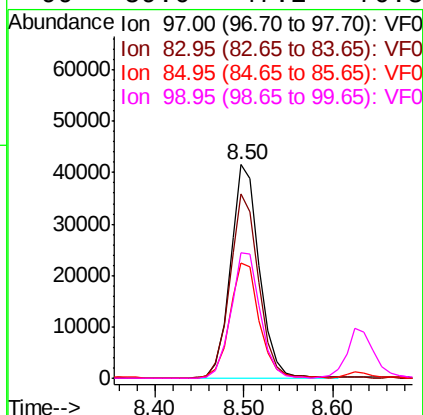
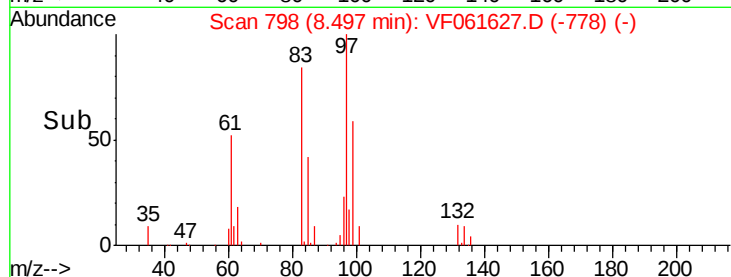
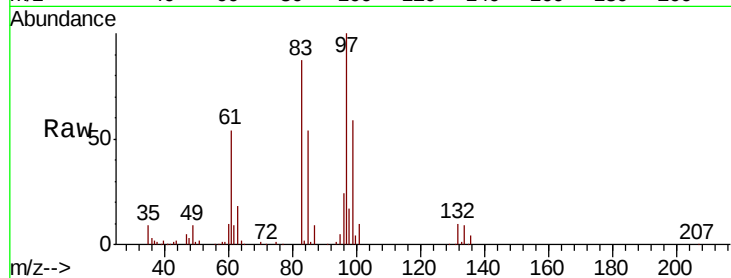
ClientSampleId :

VSTDICCC050

Tot Ion:	97	Resp:	93825
Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.2	103.8
85	53.7	43.0	64.4
99	59.0	47.2	70.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 45.222 ug/l

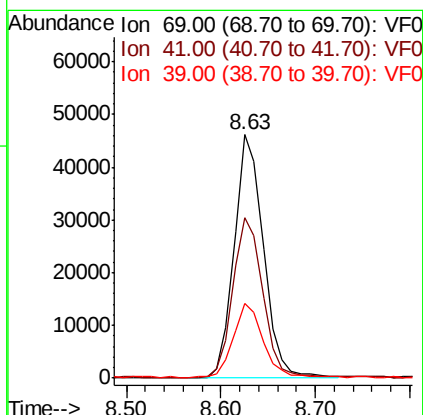
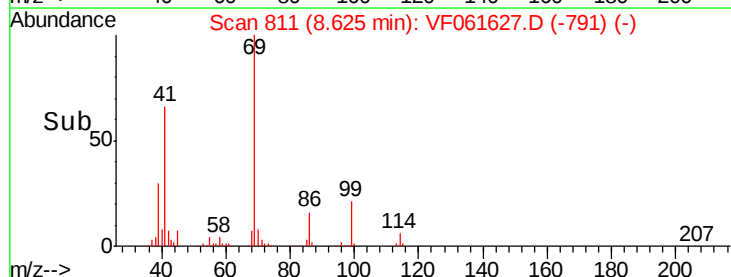
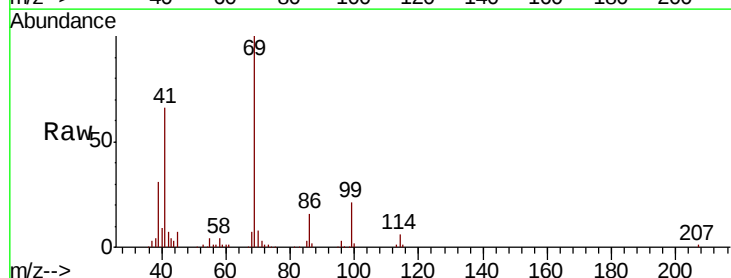
RT: 8.63 min Scan# 811

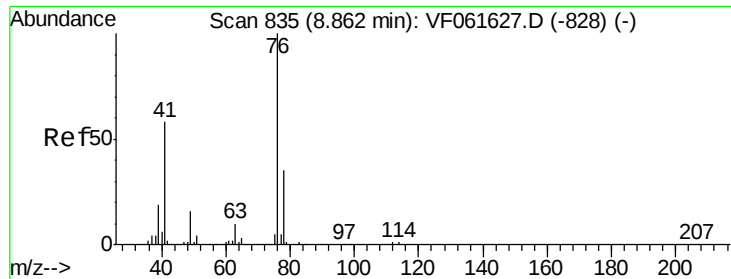
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	69	Resp:	99301
Ion	Ratio	Lower	Upper
69	100		
41	66.1	52.9	79.3
39	30.6	24.5	36.7





#57

1,3-Dichloropropane

Concen: 44.059 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 76 Resp: 151913

Ion Ratio Lower Upper

76 100

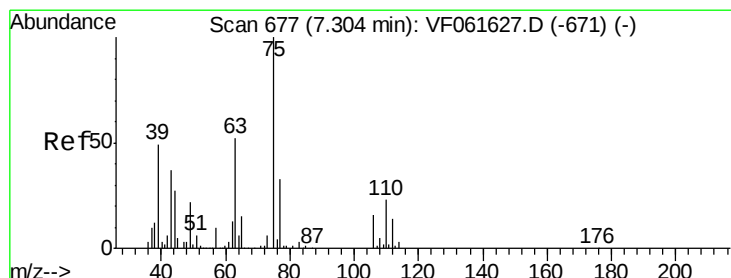
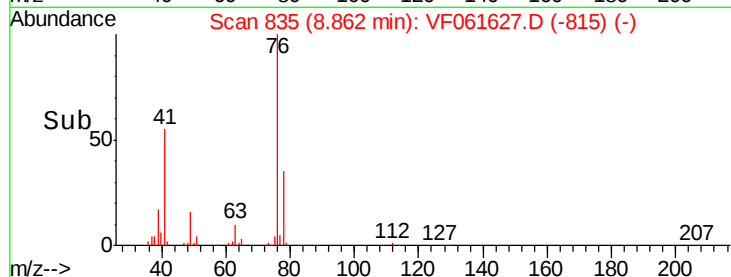
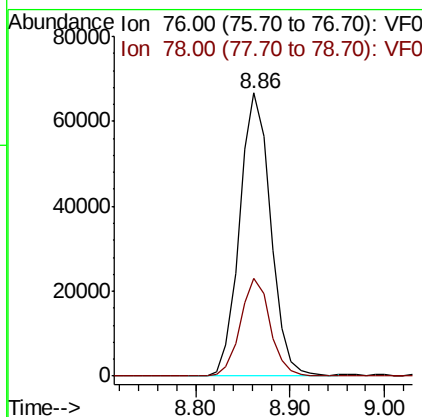
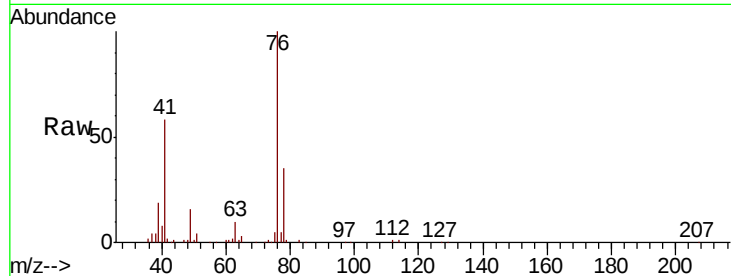
78 34.7 27.8 41.6

Manual Integrations

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2/14/2019 12:42:00 PM



#58

2-Chloroethyl Vinyl ether

Concen: 230.291 ug/l

RT: 7.30 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF061627.D

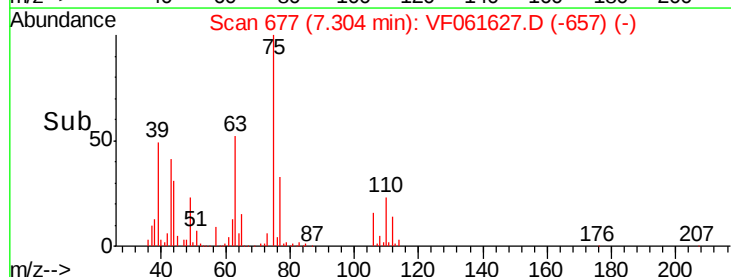
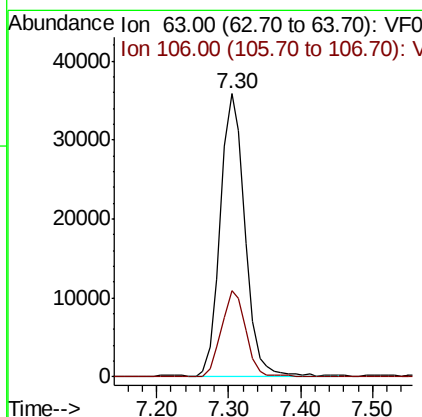
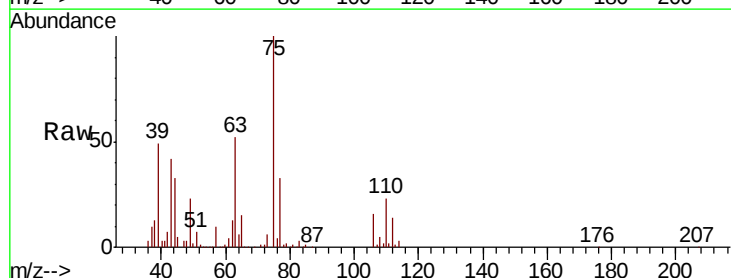
Acq: 13 Feb 2019 17:34

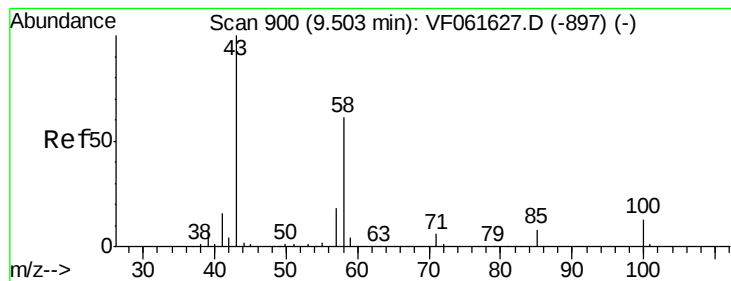
Tgt Ion: 63 Resp: 85301

Ion Ratio Lower Upper

63 100

106 30.7 24.6 36.8





#59

2-Hexanone

Concen: 226.483 ug/l

RT: 9.50 min Scan# 900

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampled :

VSTDICCC050

Tot Ion: 43 Resp: 263504

Ion Ratio Lower Upper

43 100

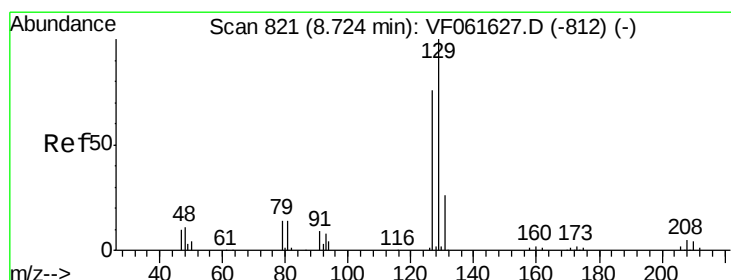
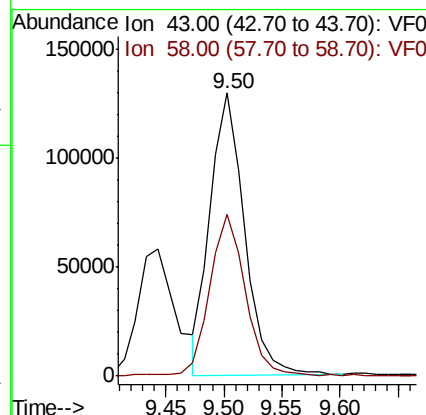
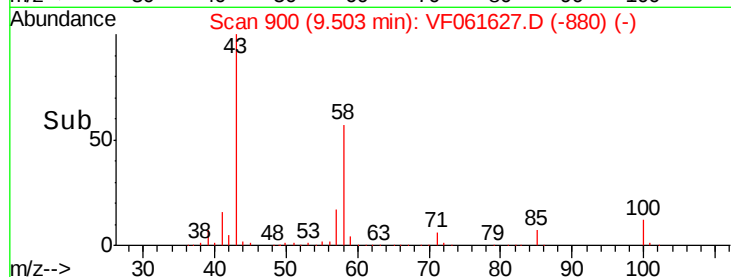
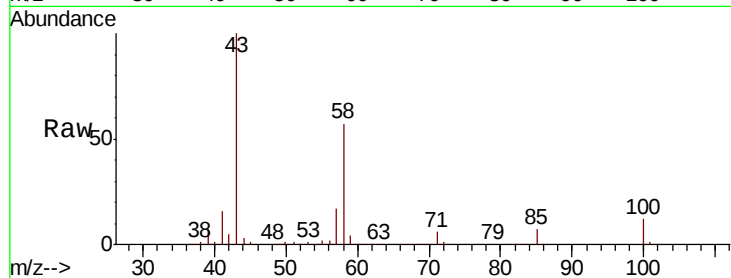
58 57.0 28.5 85.5

Manual Integrations

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#60

Dibromochloromethane

Concen: 47.420 ug/l

RT: 8.72 min Scan# 821

Delta R.T. 0.00 min

Lab File: VF061627.D

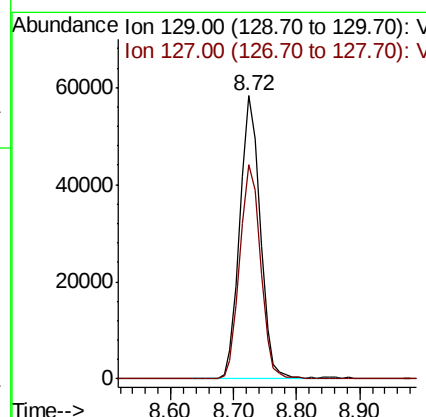
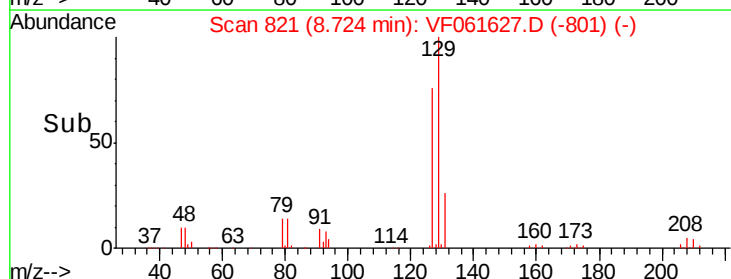
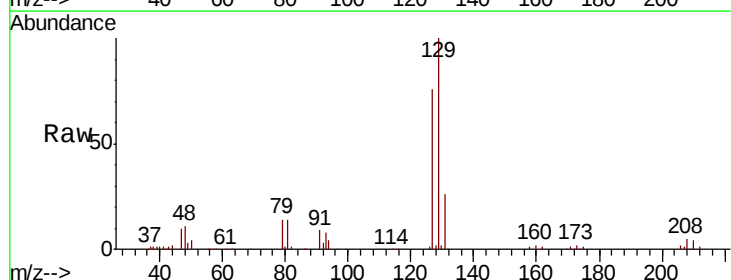
Acq: 13 Feb 2019 17:34

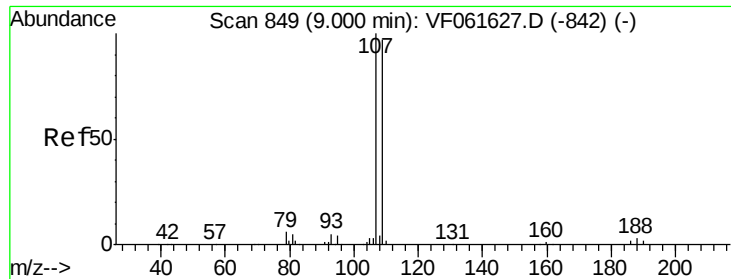
Tgt Ion: 129 Resp: 130490

Ion Ratio Lower Upper

129 100

127 75.6 37.8 113.4





#61

1,2-Dibromoethane

Concen: 48.080 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:107 Resp: 99319

Ion Ratio Lower Upper

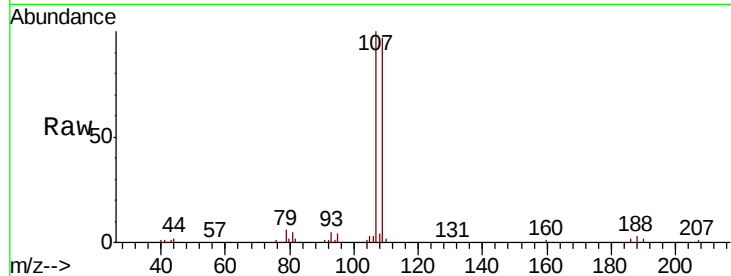
107 100

109 96.7 77.4 116.0

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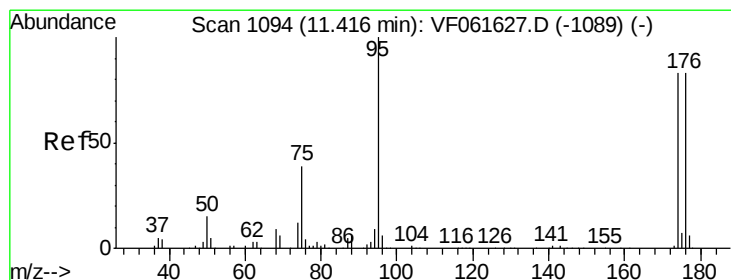
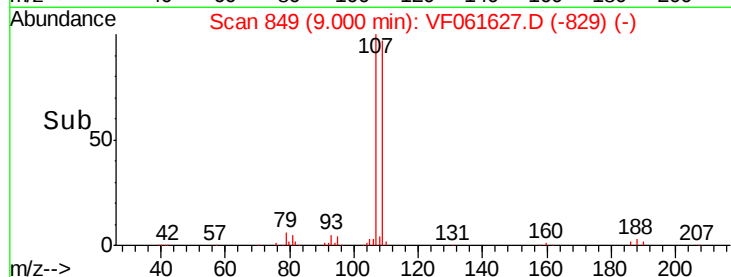
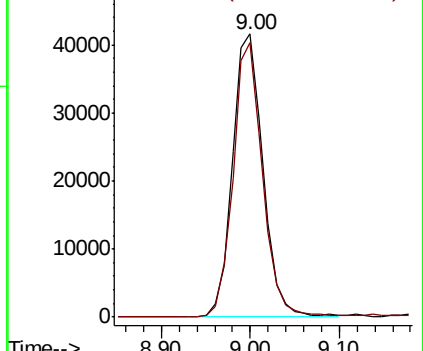
MMDadoda

2/14/2019 12:42:00 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 43.097 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

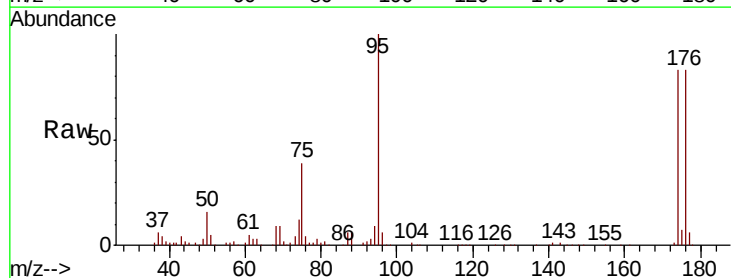
Tgt Ion: 95 Resp: 167882

Ion Ratio Lower Upper

95 100

174 82.9 0.0 165.8

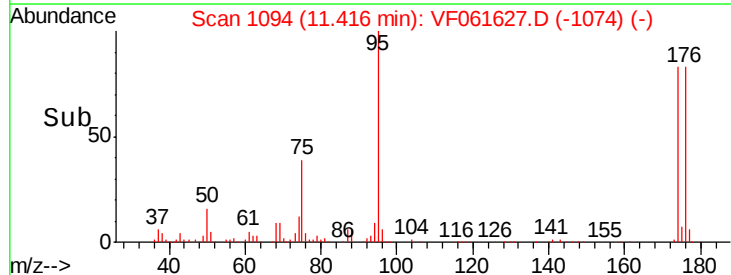
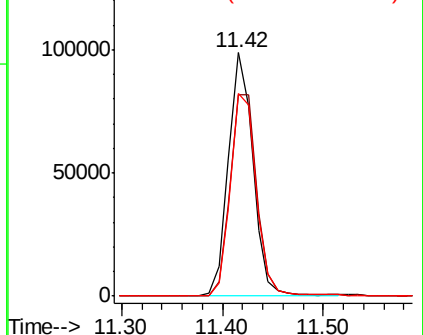
176 83.5 0.0 167.0

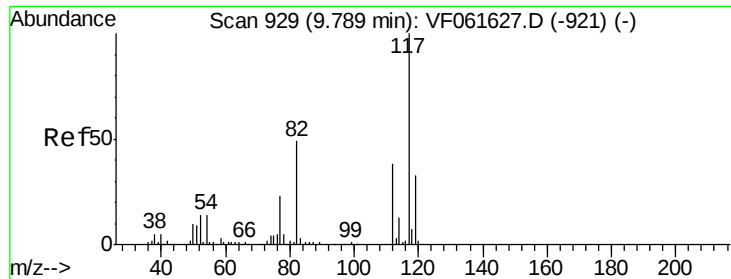


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





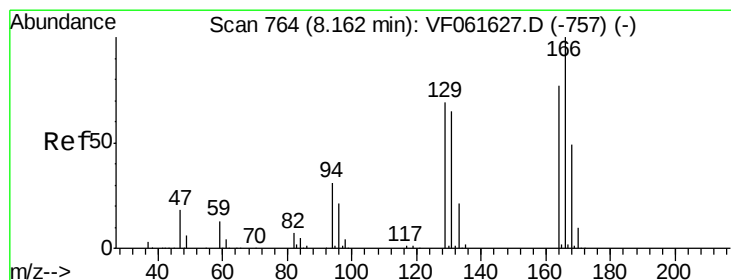
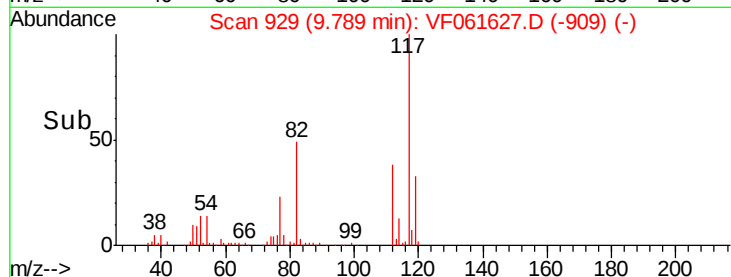
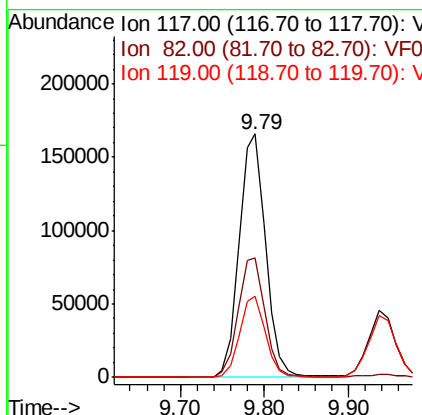
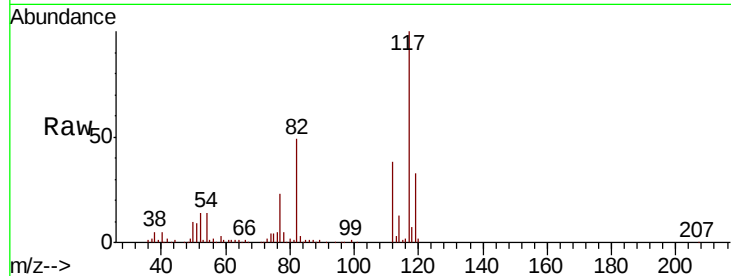
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	364763		
82	49.1		39.3	58.9
119	33.3		26.6	40.0

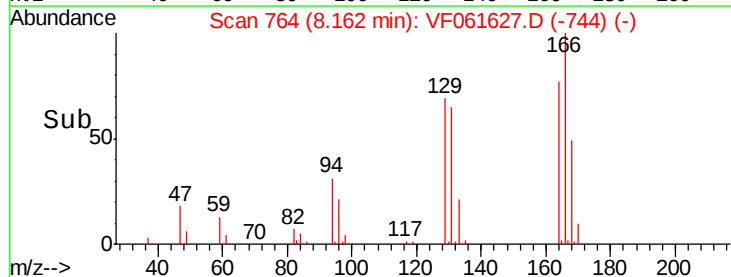
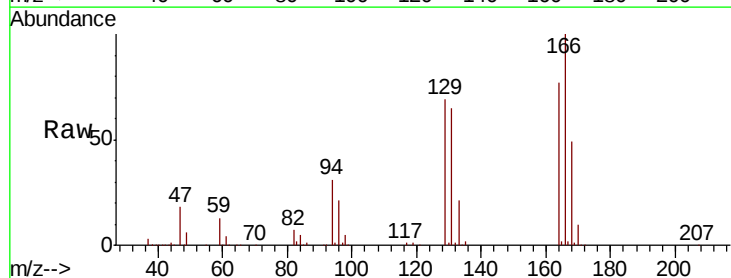
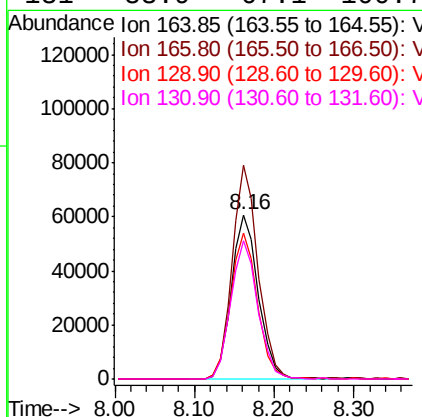
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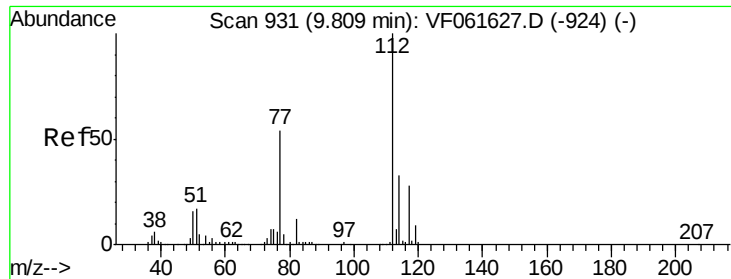
MMDadoda
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#64
Tetrachloroethene
Concen: 51.672 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	142612		
166	129.9		103.9	155.9
129	89.1		71.3	106.9
131	83.9		67.1	100.7





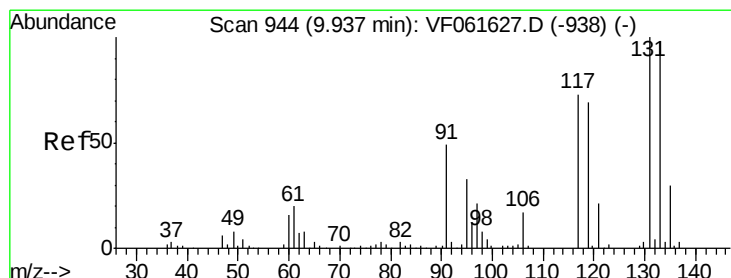
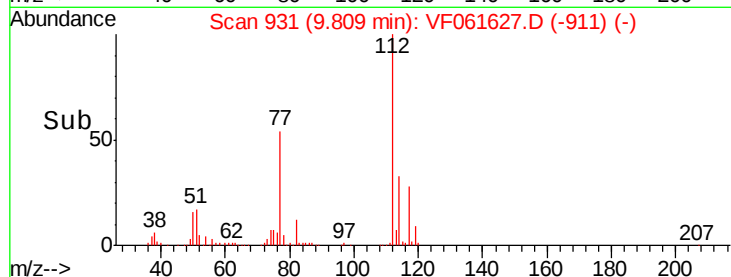
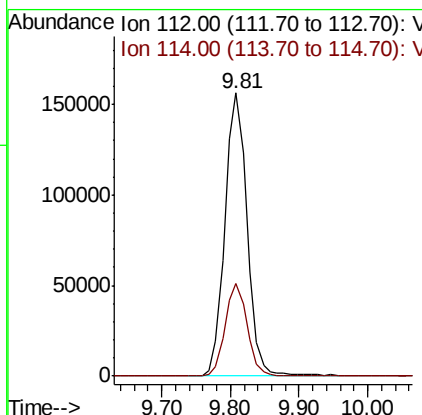
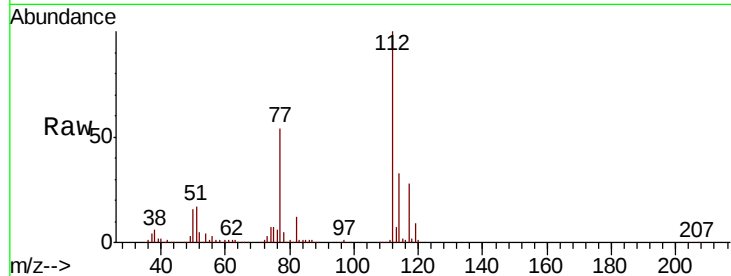
#65
Chlorobenzene
Concen: 49.294 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.2

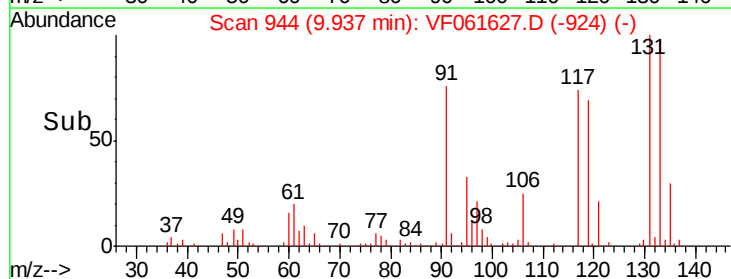
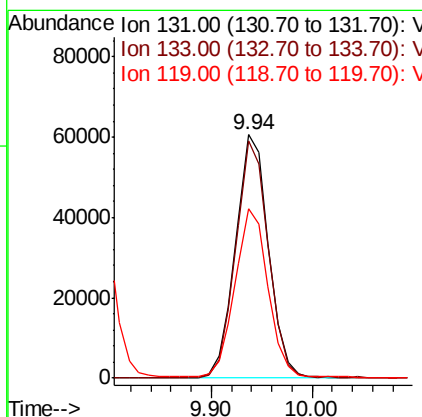
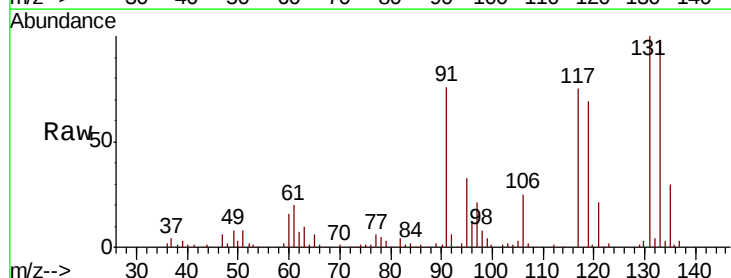
Manual Integrations
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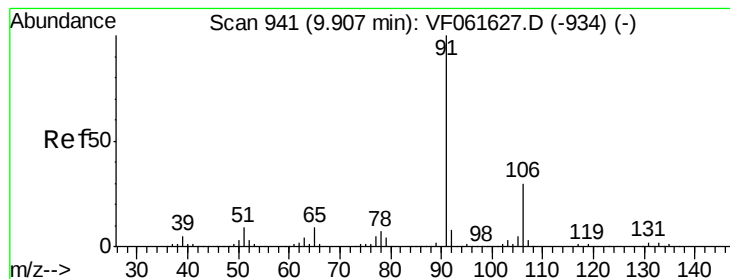
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 47.257 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.7	48.9	146.6
119	69.5	34.8	104.3





#67

Ethyl Benzene

Concen: 44.063 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 569146

Ion Ratio Lower Upper

91 100

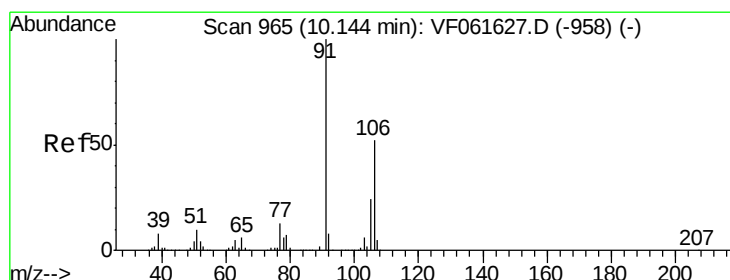
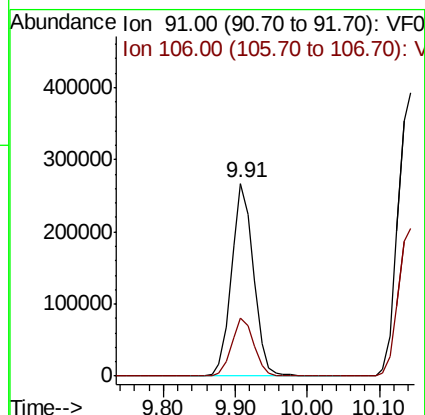
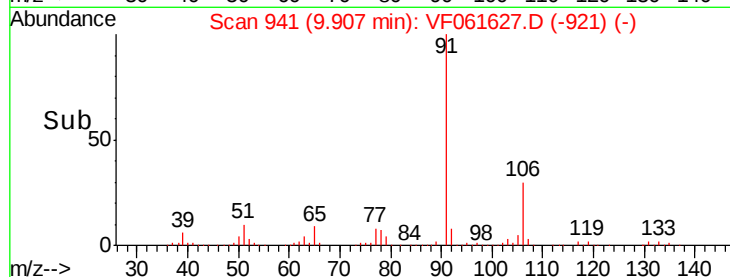
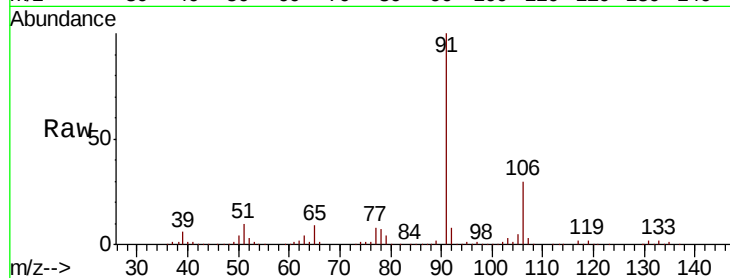
106 30.1 24.1 36.1

Manual Integrations

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#68

m/p-Xylenes

Concen: 97.660 ug/l

RT: 10.14 min Scan# 965

Delta R.T. 0.00 min

Lab File: VF061627.D

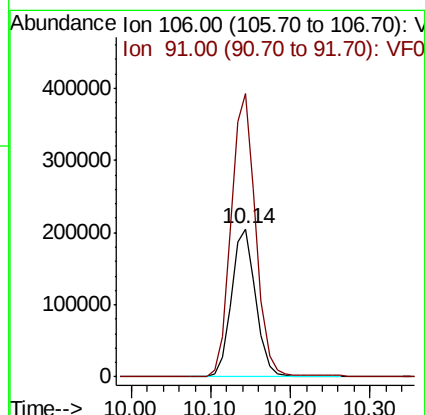
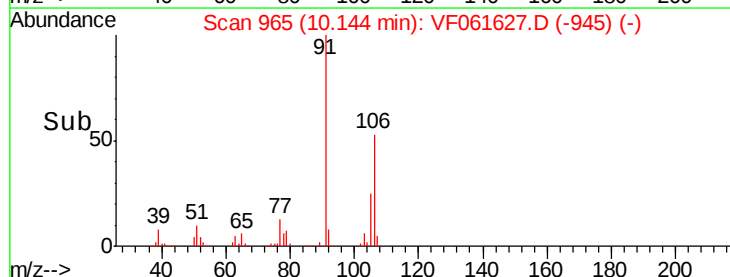
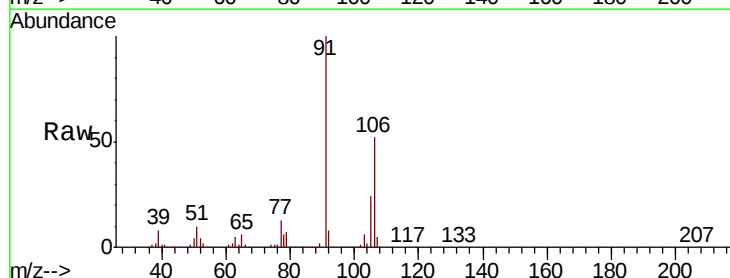
Acq: 13 Feb 2019 17:34

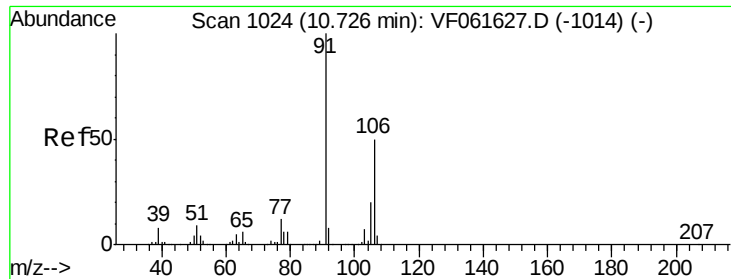
Tgt Ion: 106 Resp: 437637

Ion Ratio Lower Upper

106 100

91 191.3 153.0 229.6





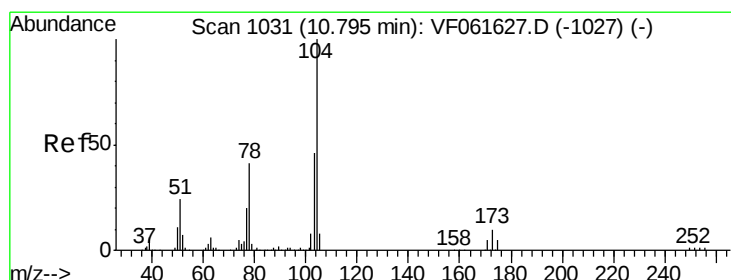
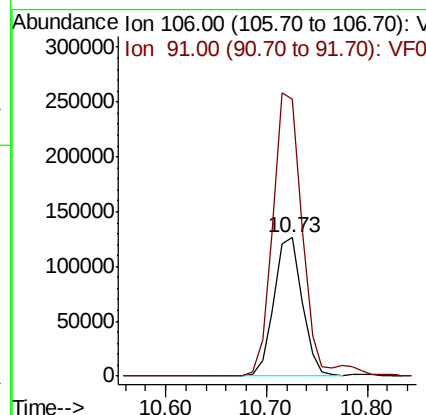
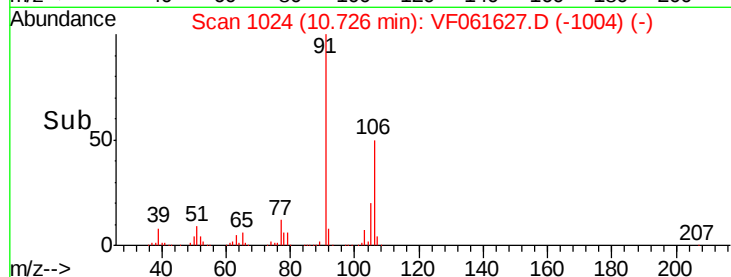
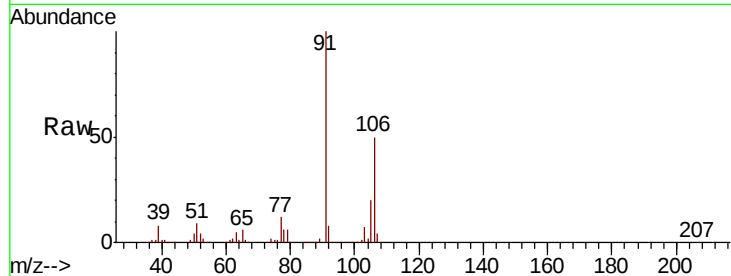
#69
o-Xylene
Concen: 49.348 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	200.1	100.1	300.1

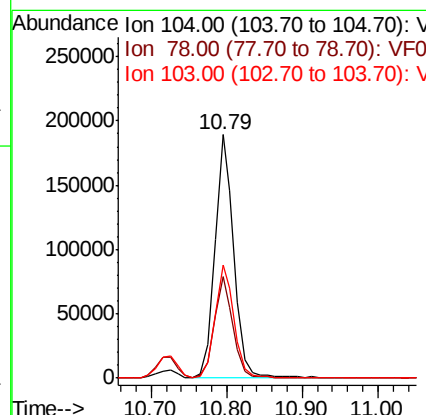
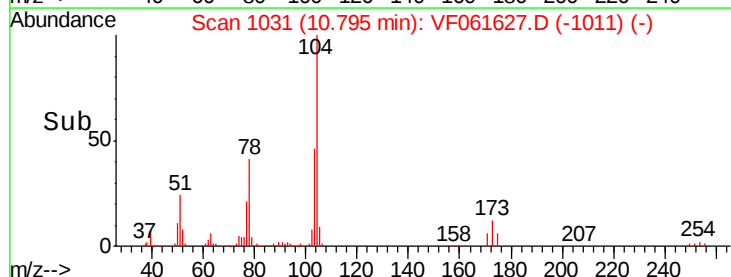
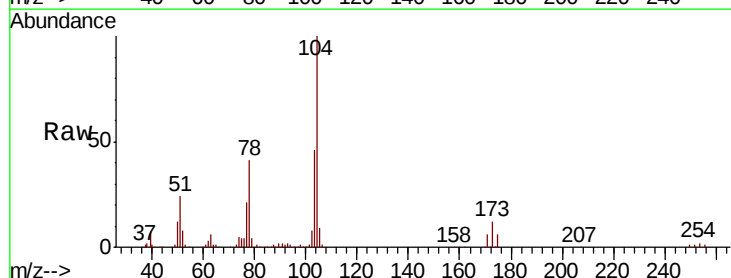
Manual Integrations
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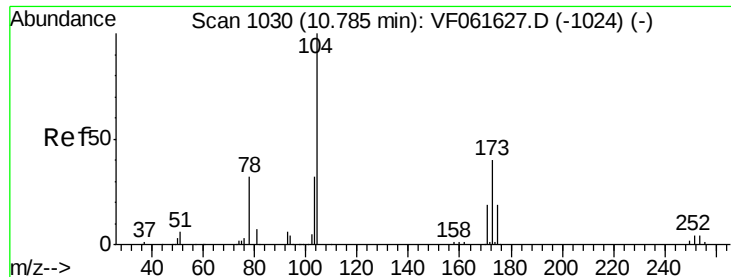
MMDadoda
2/14/2019 12:42:00 PM



#70
Styrene
Concen: 48.431 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.5	33.2	49.8
103	46.5	37.2	55.8





#71

Bromoform

Concen: 55.559 ug/l

RT: 10.78 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:173 Resp: 76947

Ion Ratio Lower Upper

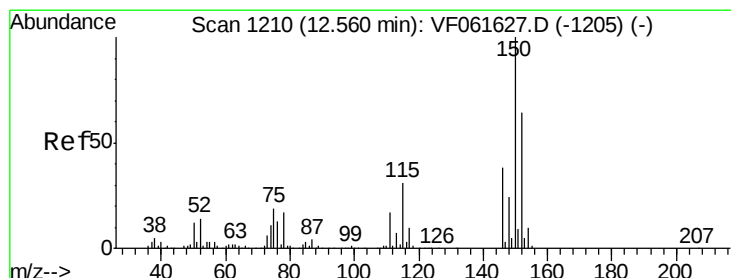
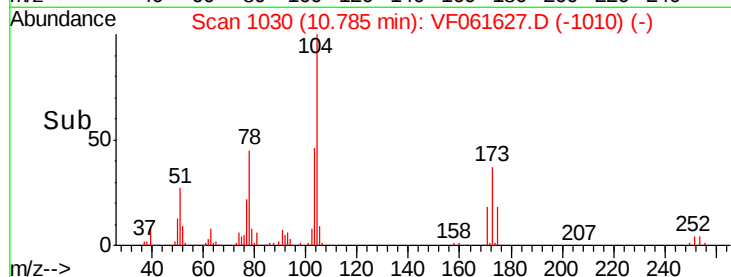
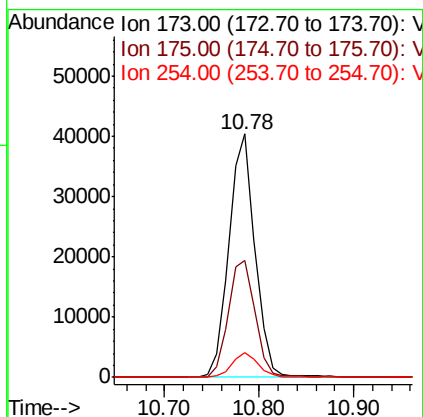
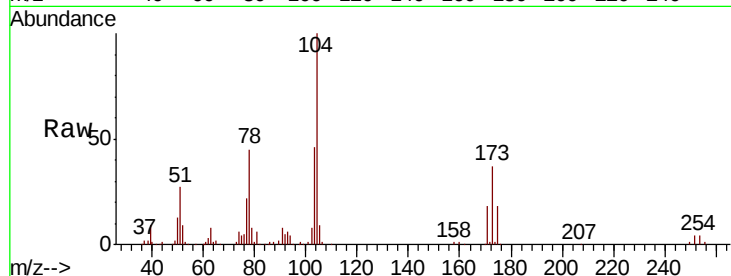
173 100

175 48.0 24.0 72.0

254 10.2 8.2 12.2

Manual Integrations
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2/14/2019 12:42:00 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

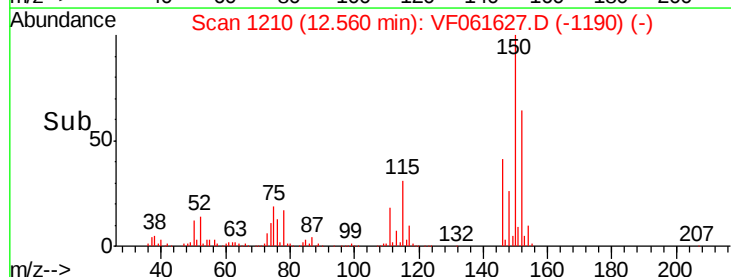
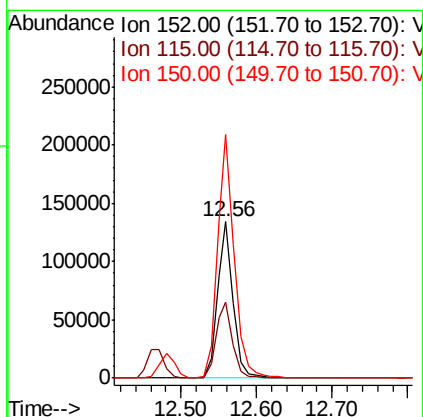
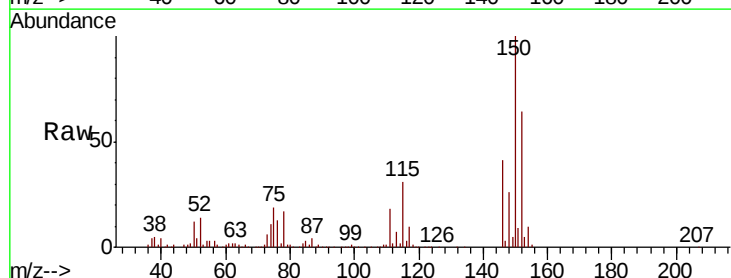
Tgt Ion:152 Resp: 195108

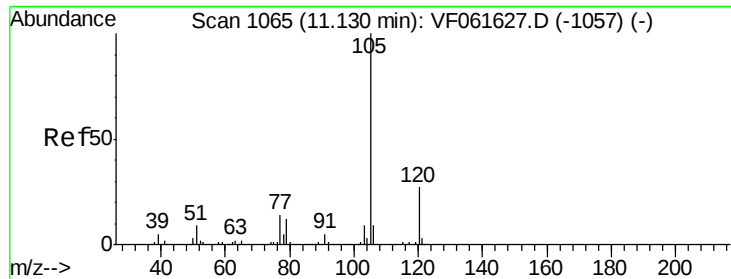
Ion Ratio Lower Upper

152 100

115 48.5 24.3 72.8

150 156.0 0.0 312.0





#73

Isopropylbenzene

Concen: 44.485 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 105 Resp: 670882

Ion Ratio Lower Upper

105 100

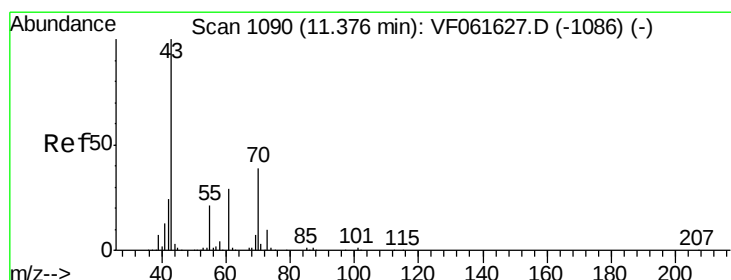
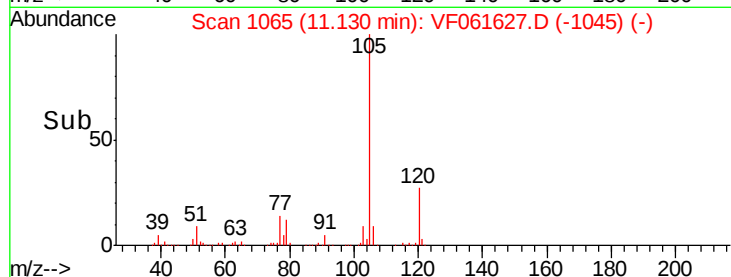
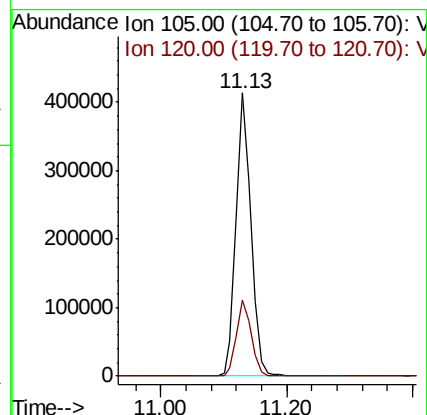
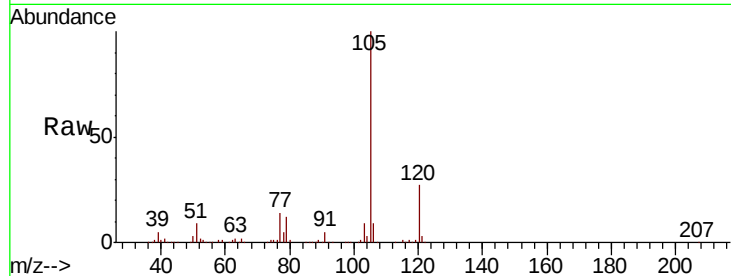
120 26.7 13.4 40.1

Manual Integrations

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2/14/2019 12:42:00 PM



#74

N-ethyl acetate

Concen: 43.367 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion: 43 Resp: 164675

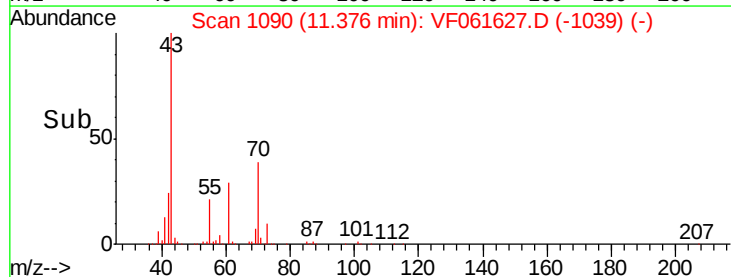
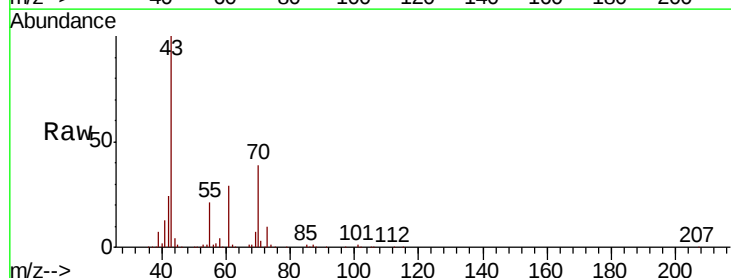
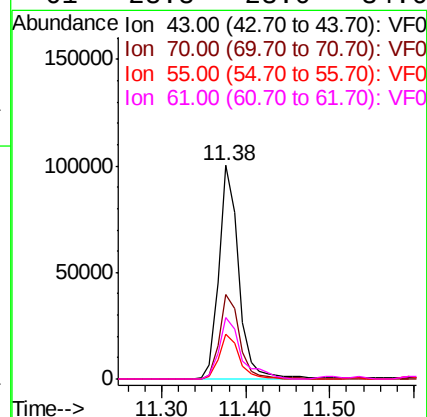
Ion Ratio Lower Upper

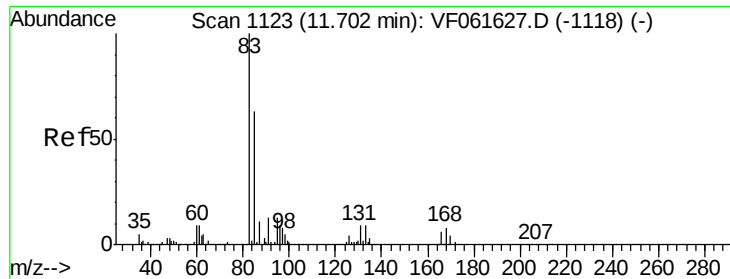
43 100

70 39.4 31.5 47.3

55 20.9 16.7 25.1

61 28.8 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 42.905 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

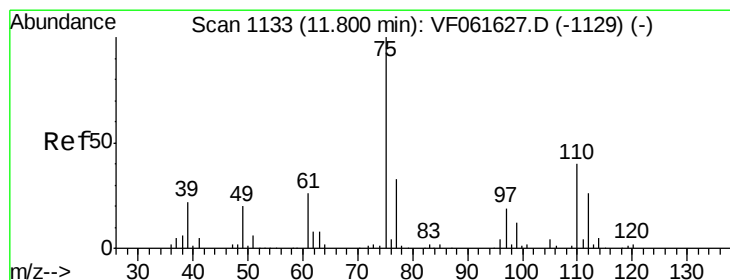
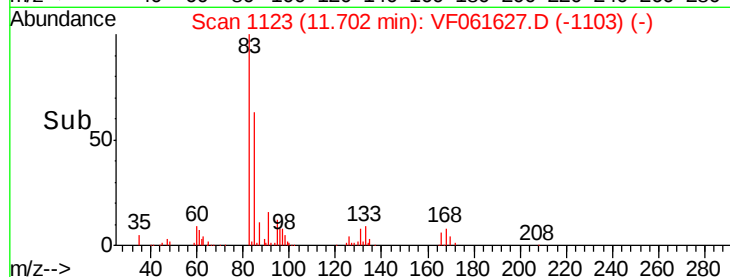
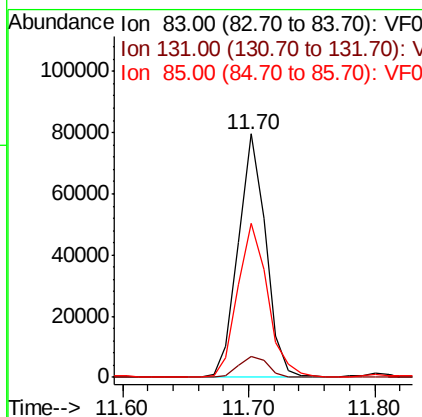
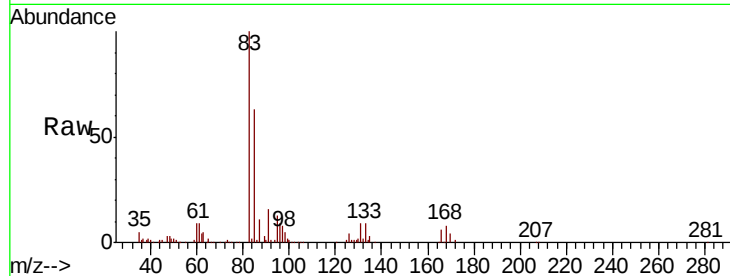
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	120778
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.4	13.2
85	63.0	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 41.053 ug/l

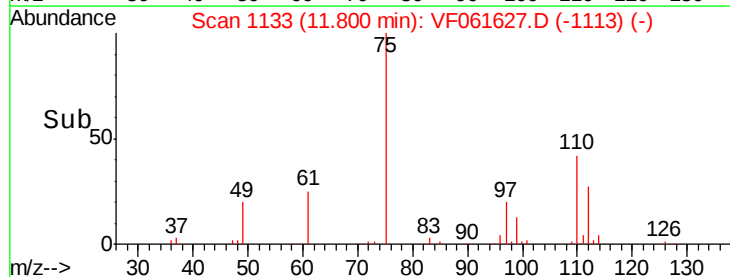
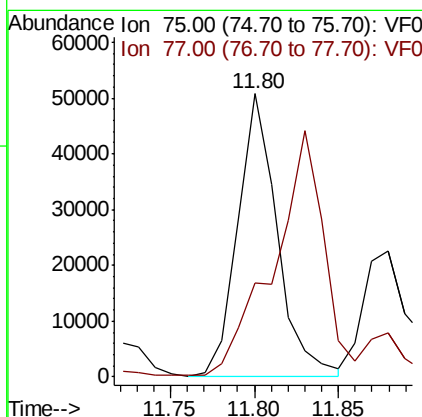
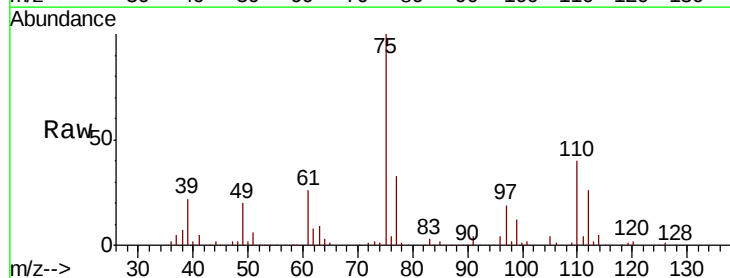
RT: 11.80 min Scan# 1133

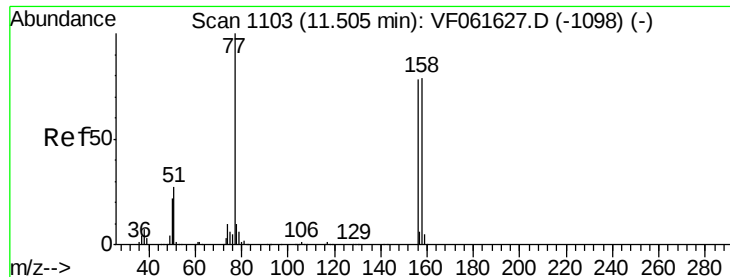
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	75	Resp:	82107
Ion Ratio	Lower	Upper	
75	100		
77	33.1	16.6	49.7





#77

Bromobenzene

Concen: 48.417 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

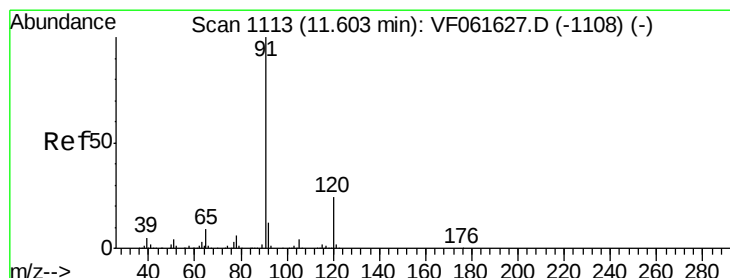
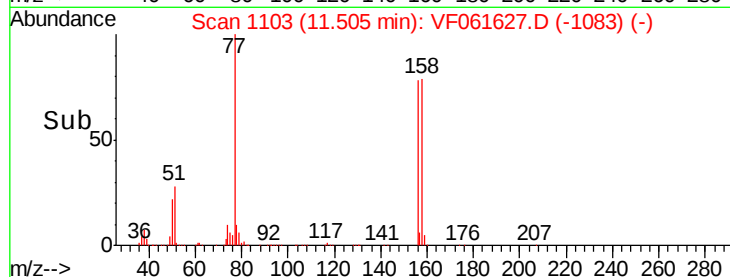
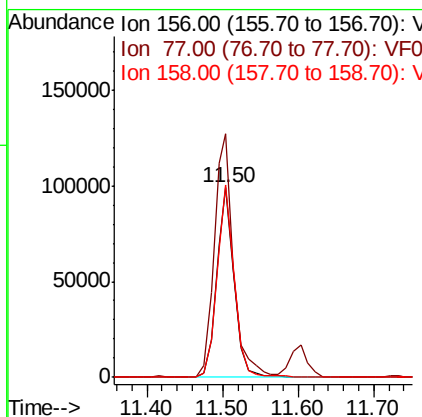
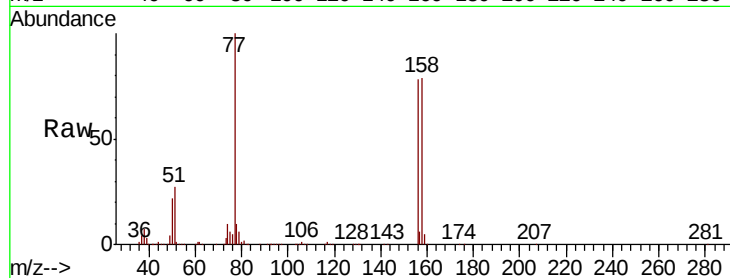
ClientSampleId :

VSTDICCC050

Tot Ion:	156	Resp:	160645
Ion Ratio	Lower	Upper	
156	100		
77	128.5	64.3	192.7
158	101.8	50.9	152.7

Manual Integrations
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MMDadoda
2/14/2019 12:42:00 PM



#78

n-propylbenzene

Concen: 41.894 ug/l

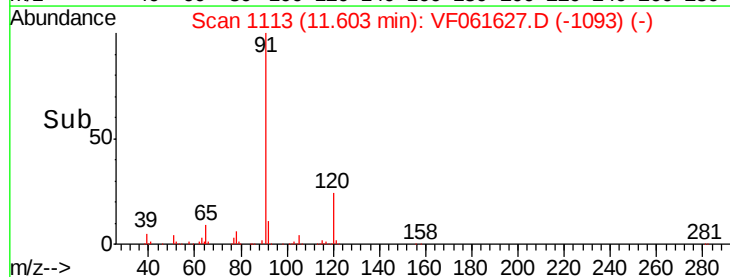
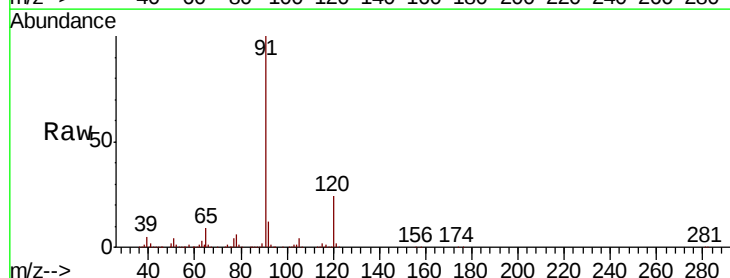
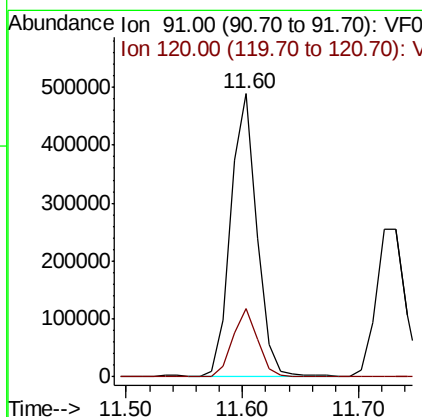
RT: 11.60 min Scan# 1113

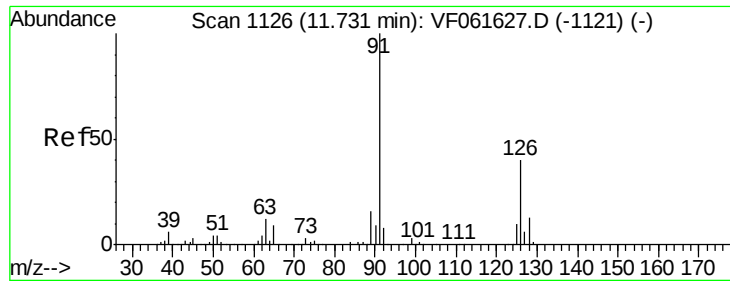
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	91	Resp:	758912
Ion Ratio	Lower	Upper	
91	100		
120	24.2	12.1	36.3





#79

2-Chlorotoluene

Concen: 42.670 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampled :

VSTDICCC050

Tot Ion: 91 Resp: 440142

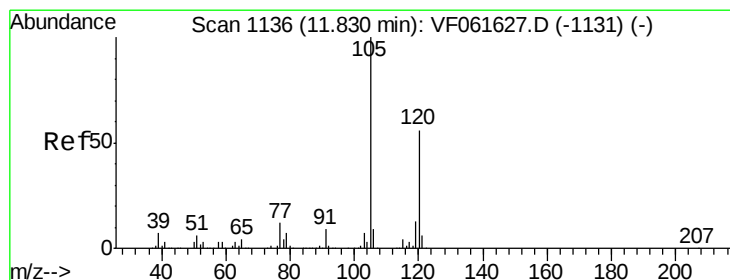
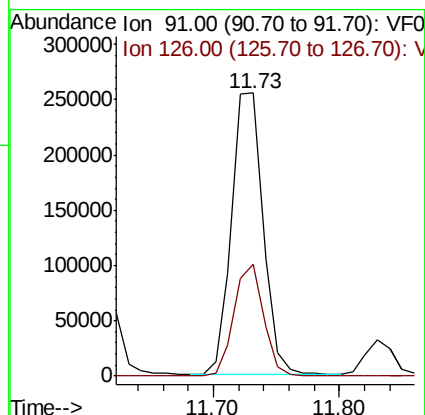
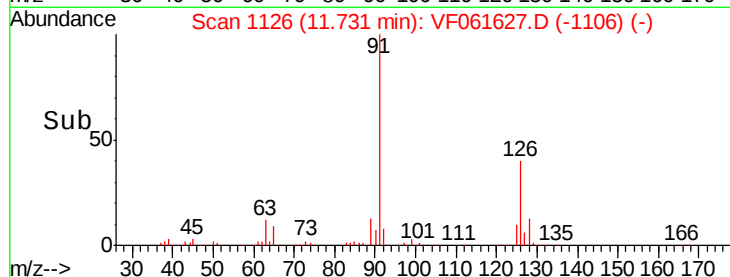
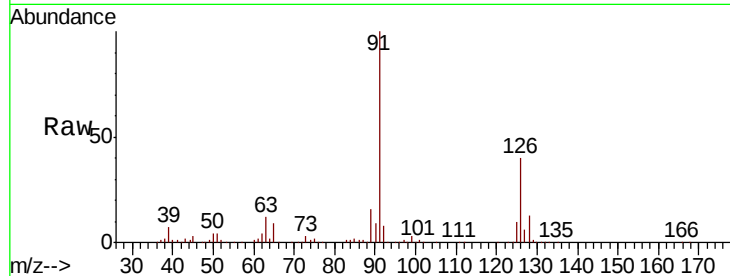
Ion Ratio Lower Upper

91 100

126 39.6 19.8 59.4

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 43.460 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF061627.D

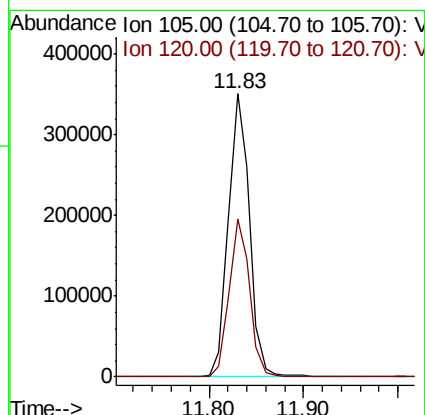
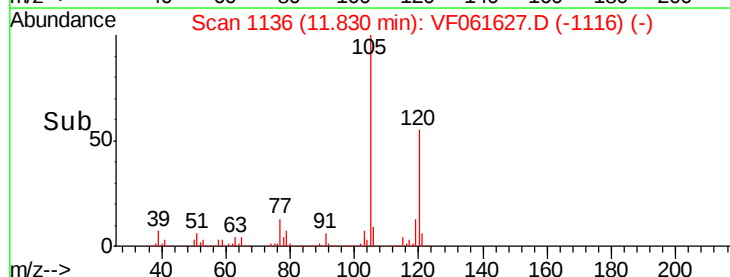
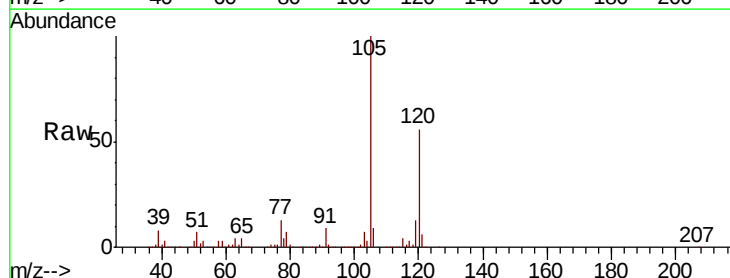
Acq: 13 Feb 2019 17:34

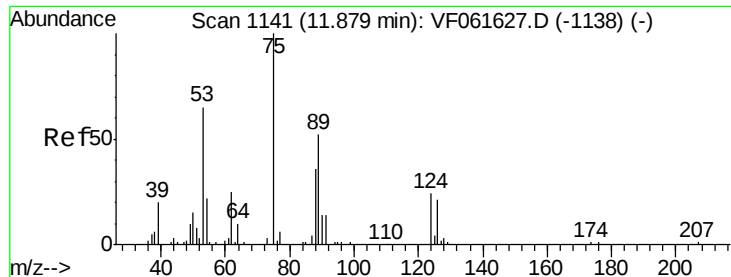
Tgt Ion: 105 Resp: 540693

Ion Ratio Lower Upper

105 100

120 55.7 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 48.711 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 75 Resp: 40724

Ion Ratio Lower Upper

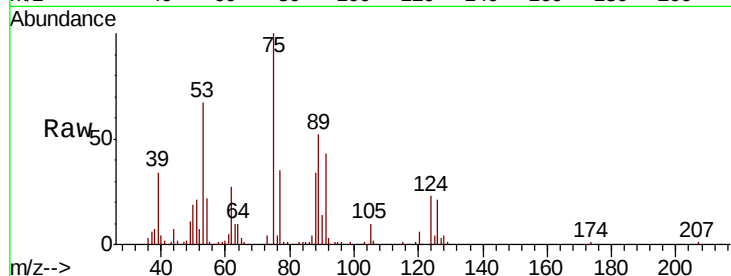
75 100

53 67.1 53.7 80.5

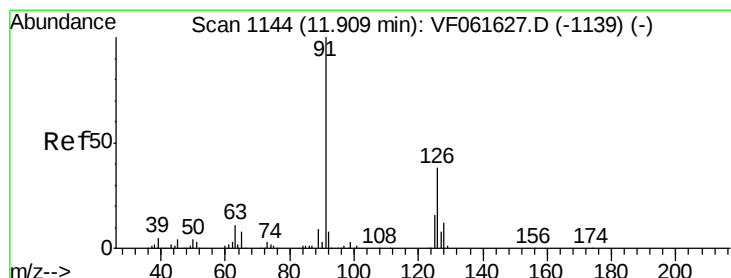
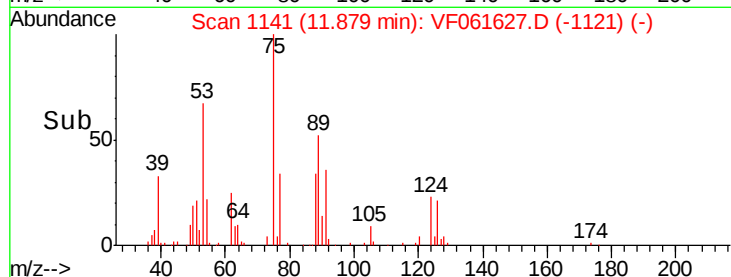
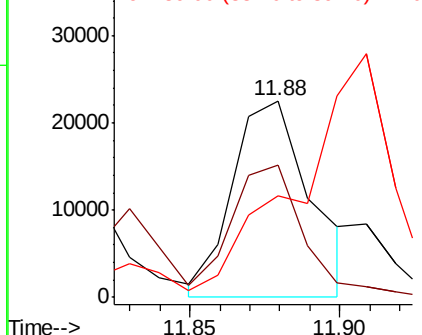
89 52.0 41.6 62.4

Manual Integrations
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Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 41.202 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF061627.D

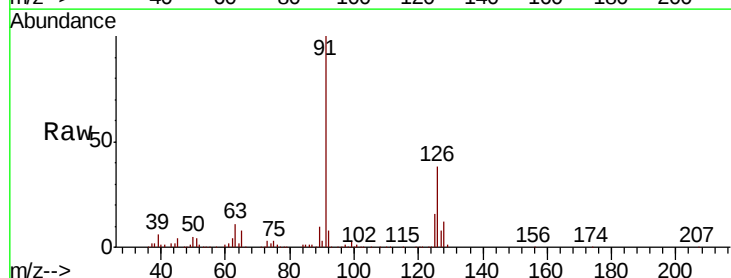
Acq: 13 Feb 2019 17:34

Tgt Ion: 91 Resp: 441526

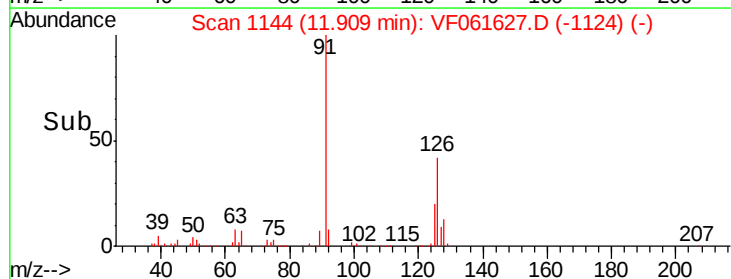
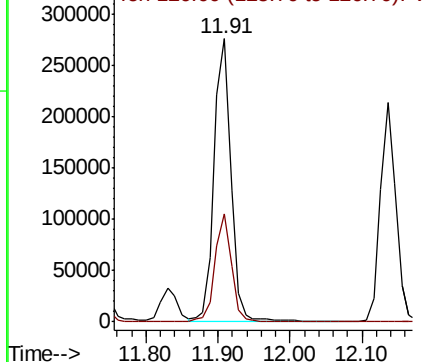
Ion Ratio Lower Upper

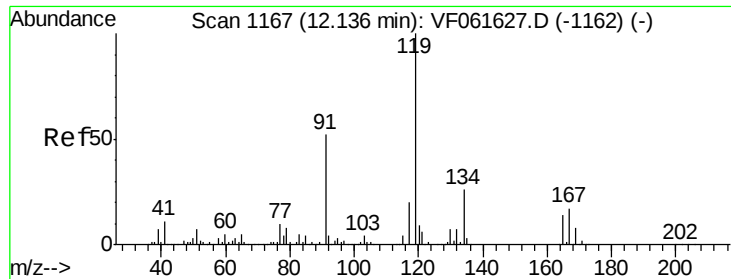
91 100

126 38.1 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V





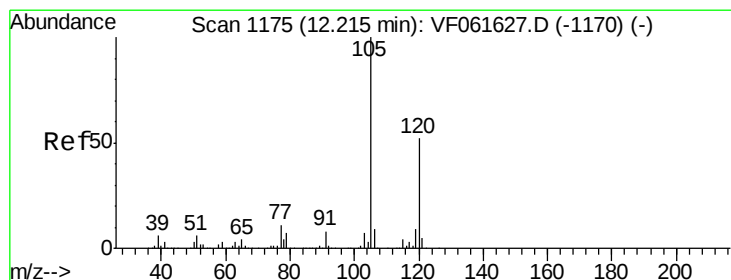
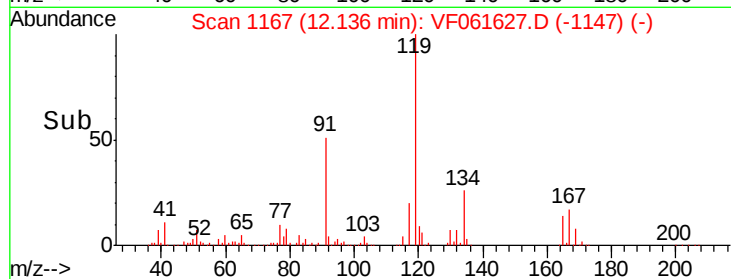
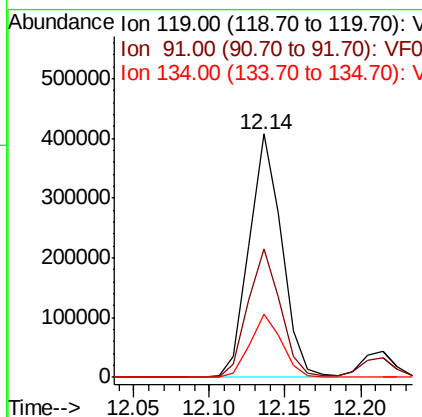
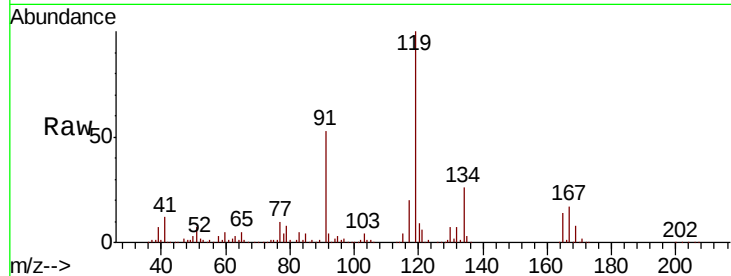
#83
 tert-Butylbenzene
 Concen: 48.300 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	617832		
91	52.5	26.3	78.8	
134	25.8	12.9	38.7	

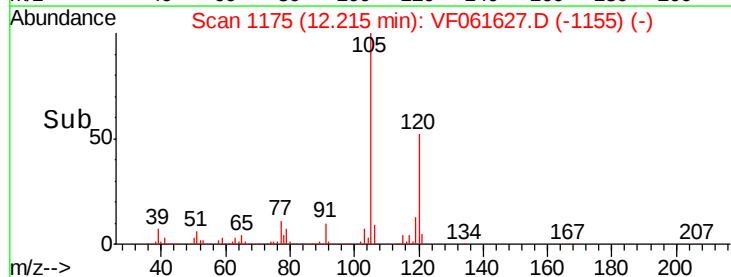
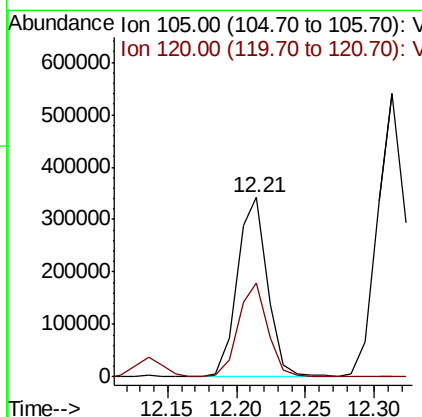
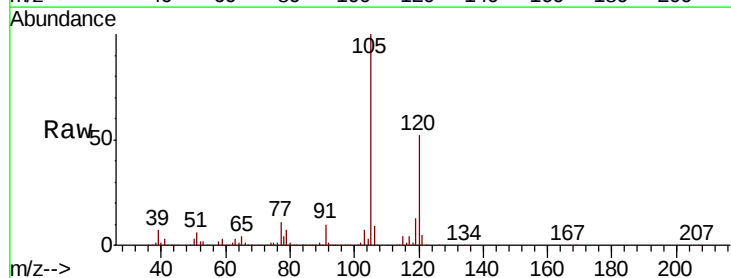
Manual Integrations
 APPROVED

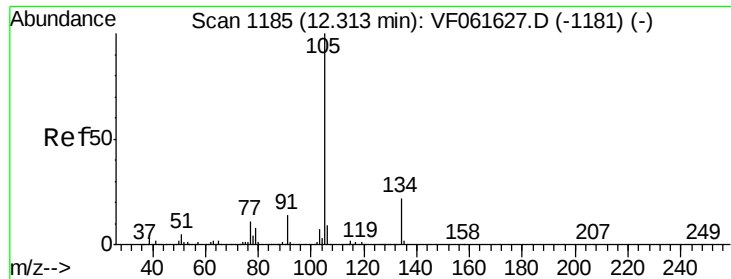
MMDadoda
 2/14/2019 12:42:00 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 42.700 ug/l
 RT: 12.21 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	521498		
120	52.2	26.1	78.3	





#85

sec-Butylbenzene

Concen: 45.616 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 779819

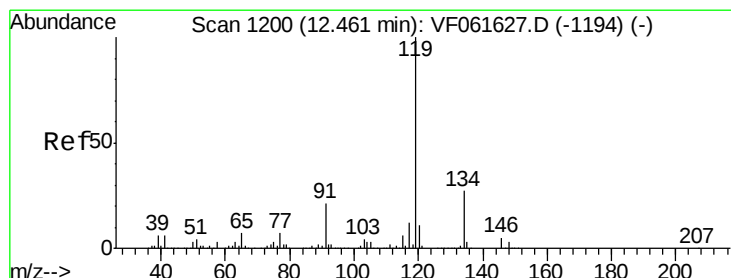
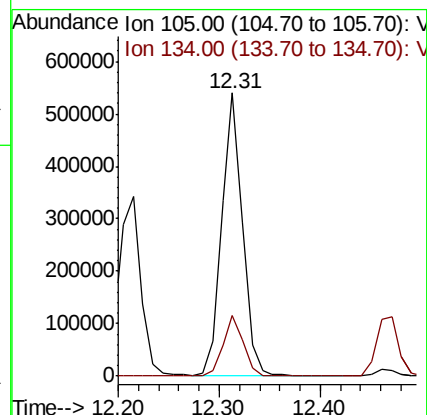
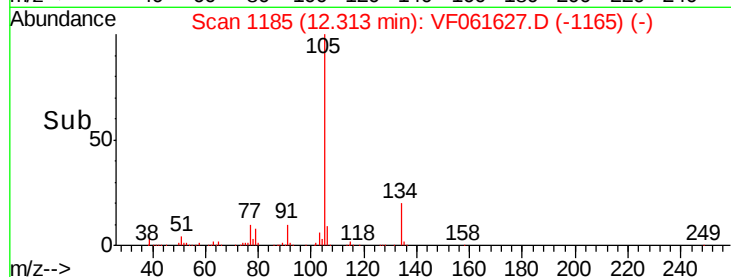
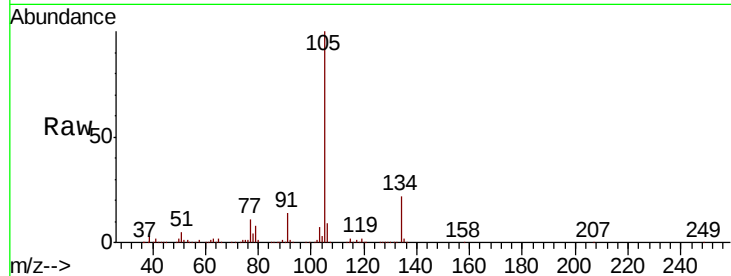
Ion Ratio Lower Upper

105 100

134 21.6 10.8 32.4

Manual Integrations
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2/14/2019 12:42:00 PM



#86

p-Isopropyltoluene

Concen: 45.884 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

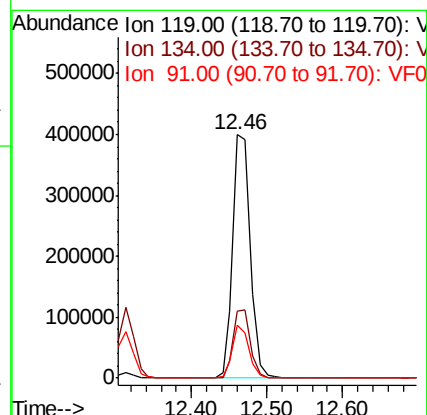
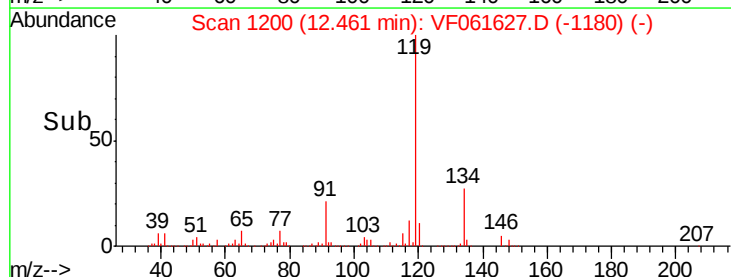
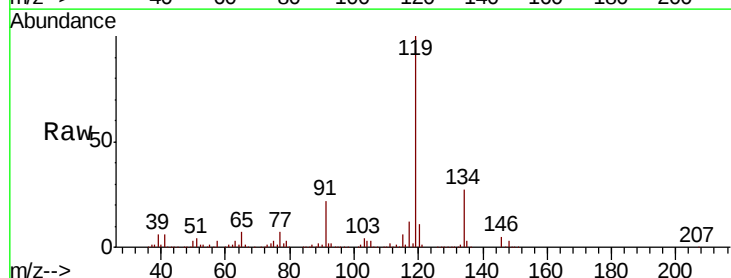
Tgt Ion:119 Resp: 641569

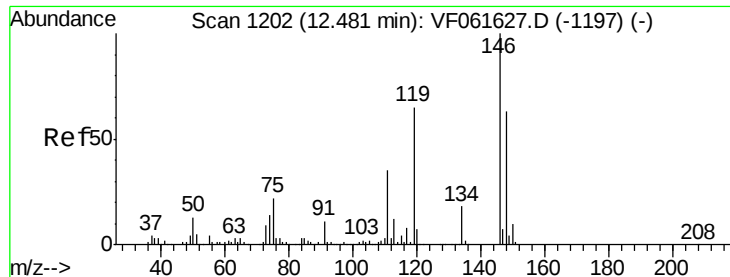
Ion Ratio Lower Upper

119 100

134 27.4 13.7 41.1

91 21.6 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 48.403 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Instrument :

MSVOA_F

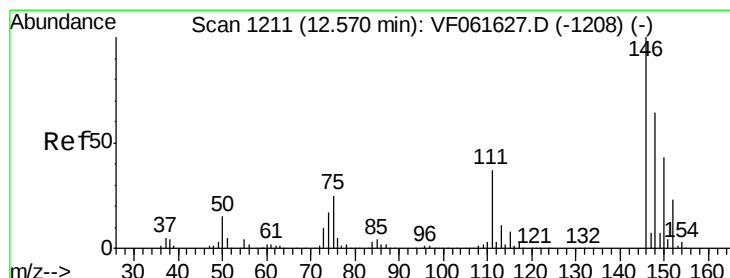
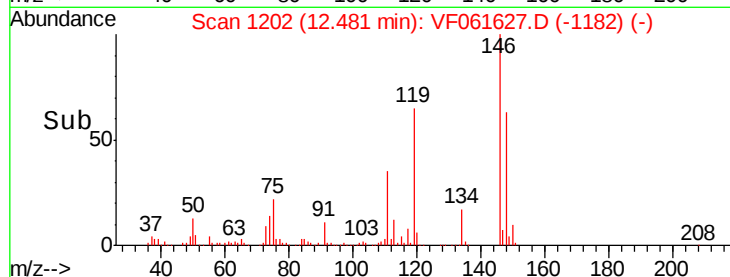
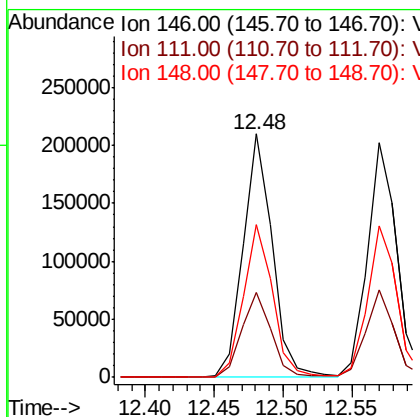
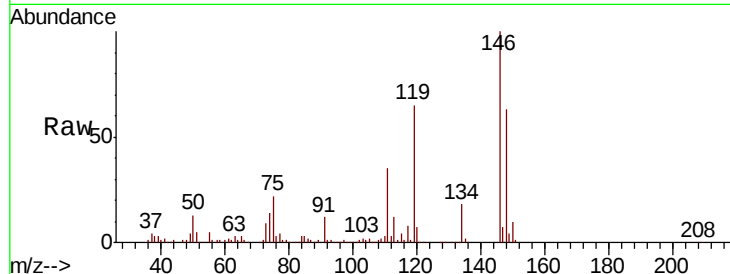
ClientSampleId :

VSTDICCC050

Tot Ion:	146	Resp:	312132
Ion Ratio	Lower	Upper	
146	100		
111	35.1	17.5	52.6
148	62.9	31.4	94.3

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 49.340 ug/l

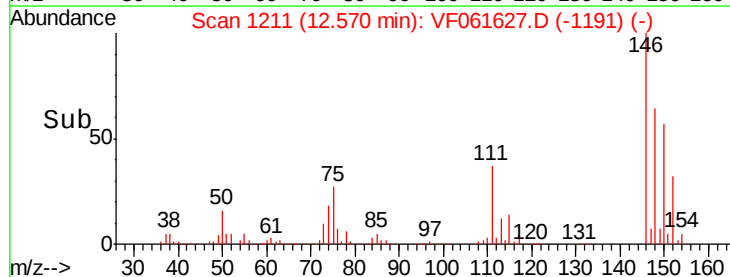
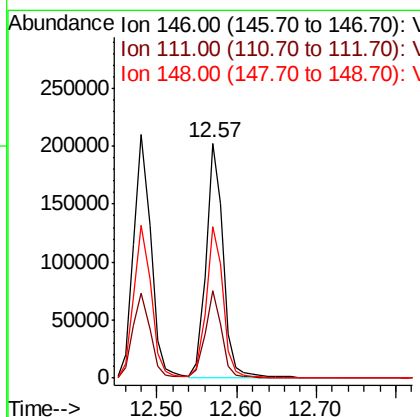
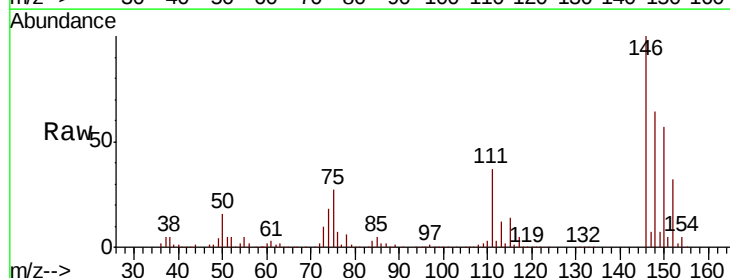
RT: 12.57 min Scan# 1211

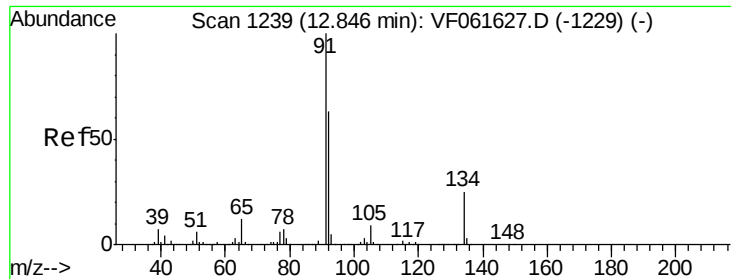
Delta R.T. 0.00 min

Lab File: VF061627.D

Acq: 13 Feb 2019 17:34

Tgt Ion:	146	Resp:	302702
Ion Ratio	Lower	Upper	
146	100		
111	36.9	18.4	55.4
148	64.4	32.2	96.6





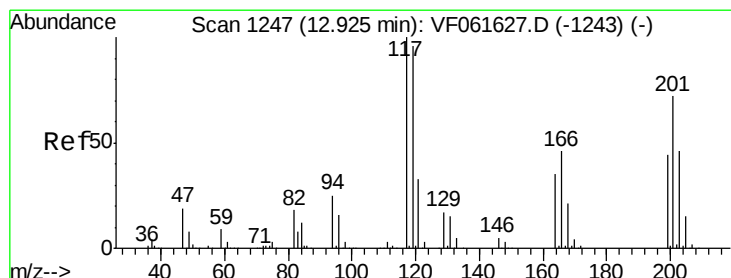
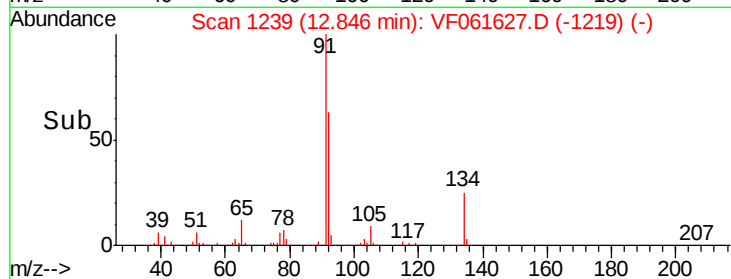
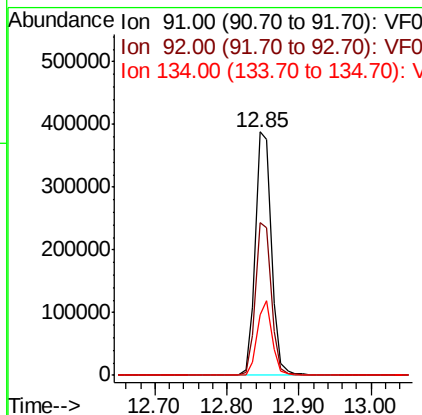
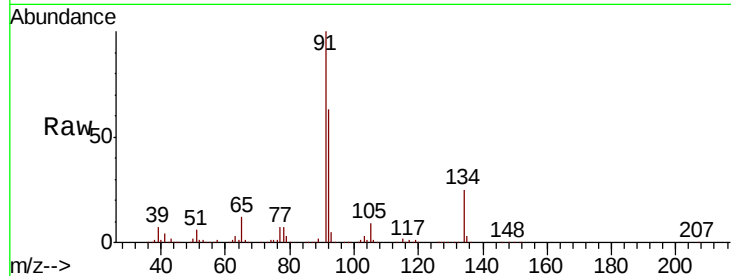
#89
n-Butylbenzene
Concen: 42.960 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.9	31.4	94.3
134	24.6	12.3	36.9

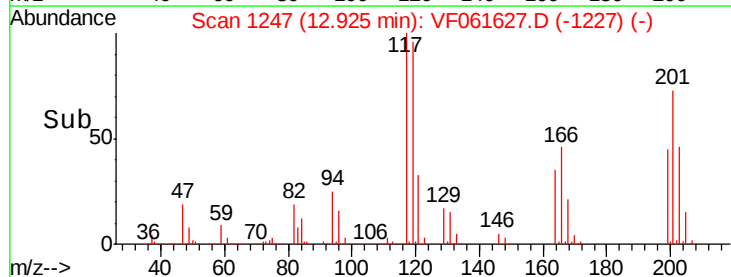
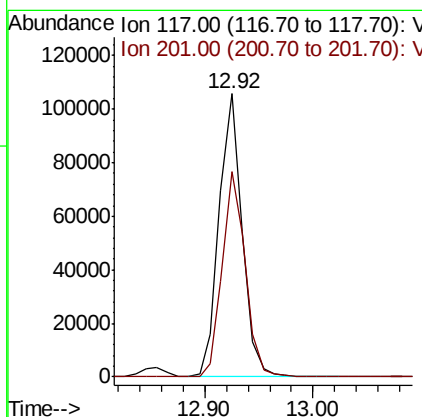
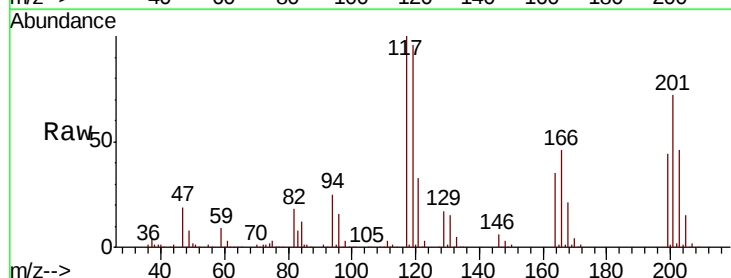
Manual Integrations
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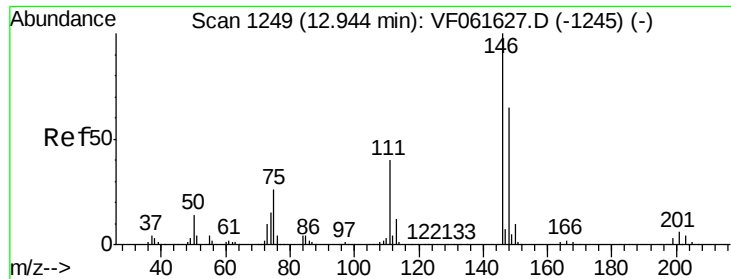
MMDadoda
2/14/2019 12:42:00 PM



#90
Hexachloroethane
Concen: 44.349 ug/l
RT: 12.92 min Scan# 1247
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.4	36.2	108.6





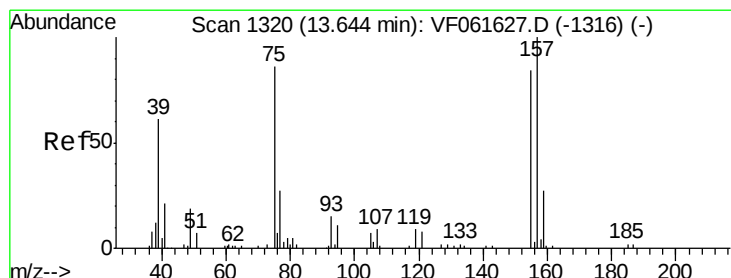
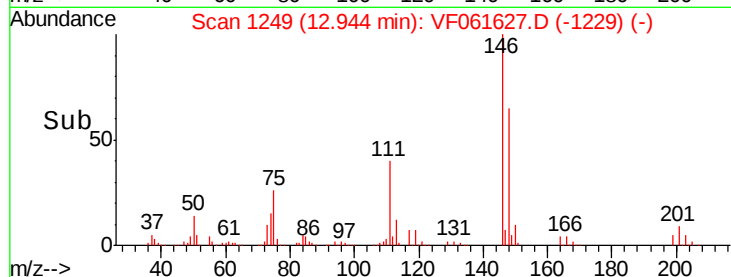
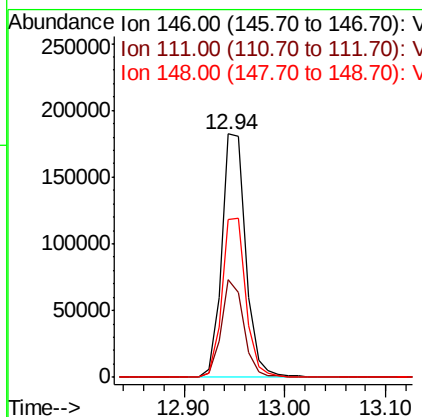
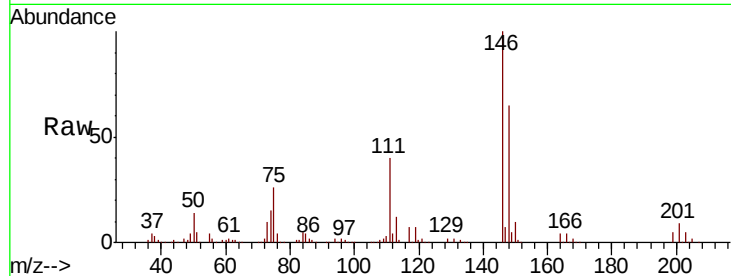
#91
 1,2-Dichlorobenzene
 Concen: 50.237 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.2	60.5
148	64.6	32.3	96.9

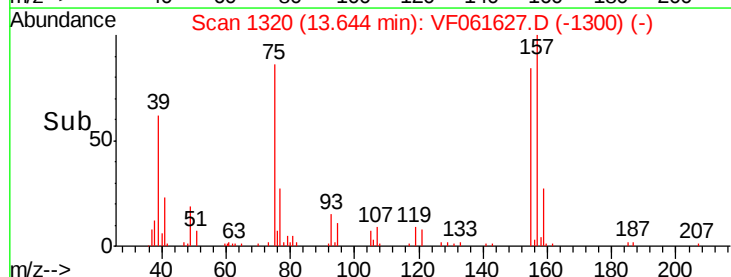
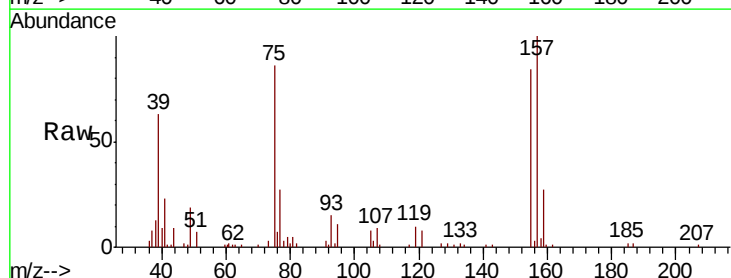
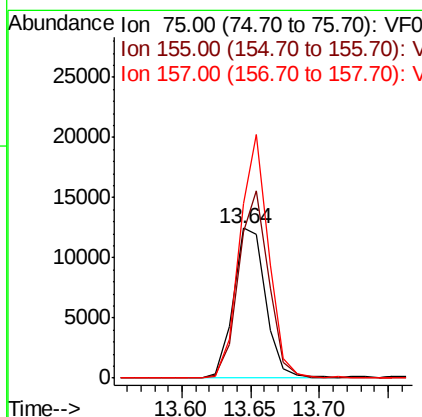
Manual Integrations
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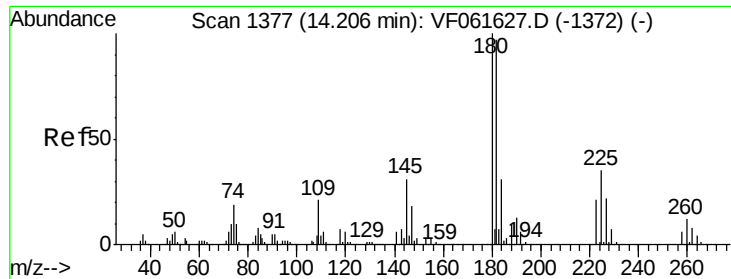
MMDadoda
 2/14/2019 12:42:00 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 41.578 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.9	48.9	146.8
157	116.5	58.3	174.8





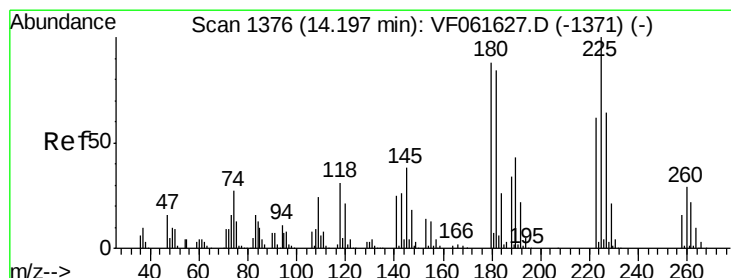
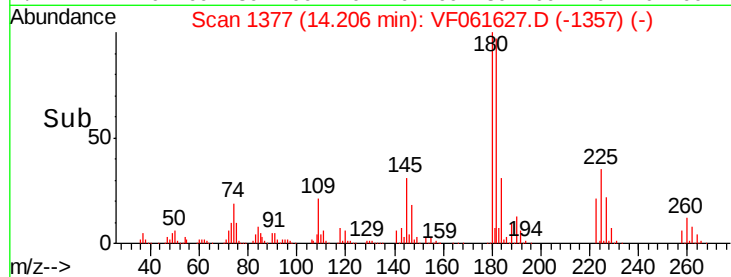
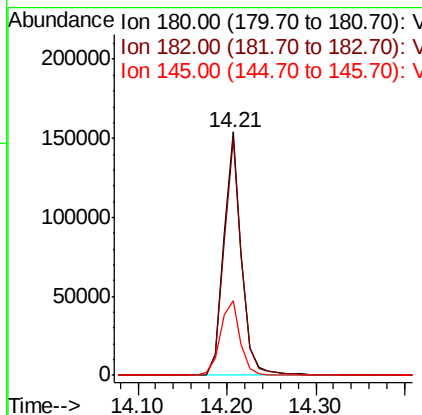
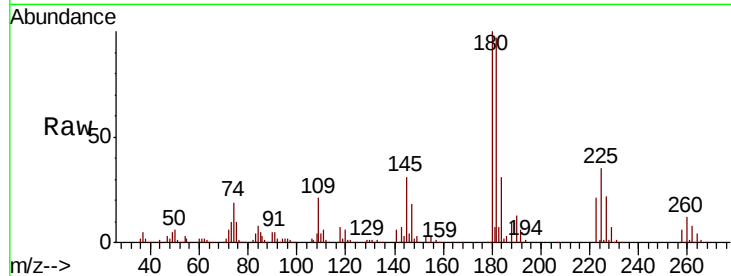
#93
 1,2,4-Trichlorobenzene
 Concen: 51.404 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	216801		
182	97.3	48.6	145.9	
145	30.6	15.3	45.9	

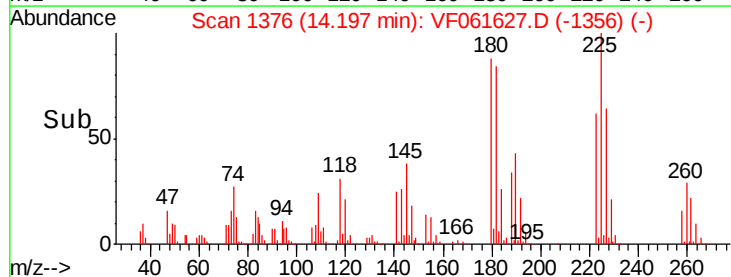
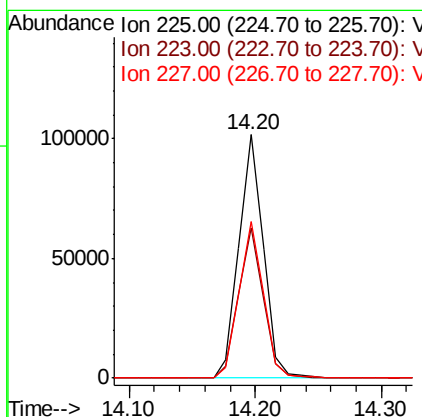
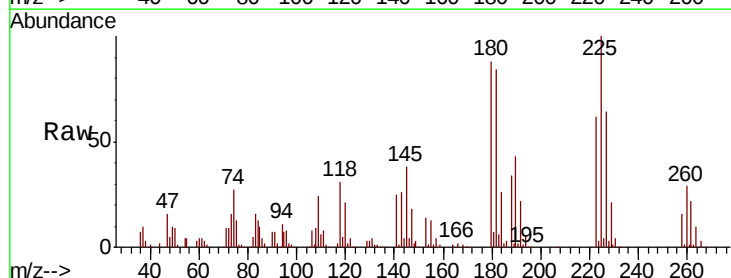
Manual Integrations
 APPROVED

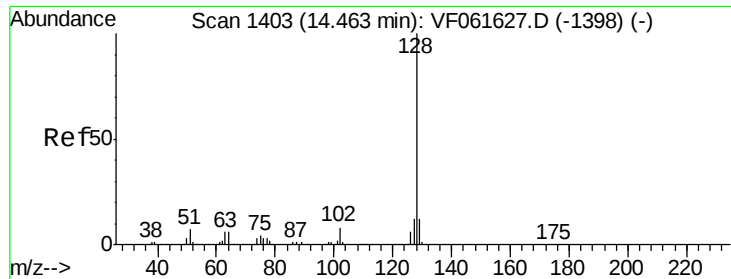
MMDadoda
 2/14/2019 12:42:00 PM



#94
 Hexachlorobutadiene
 Concen: 52.435 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061627.D
 Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	136432		
223	61.8	30.9	92.7	
227	64.2	32.1	96.3	





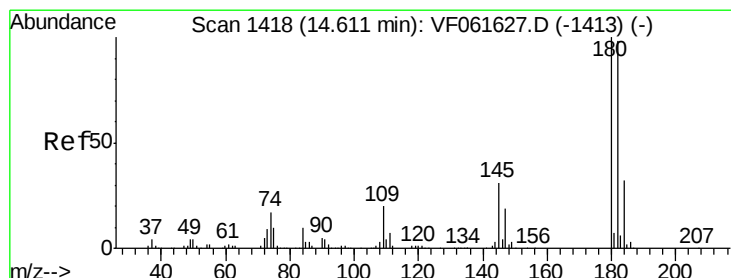
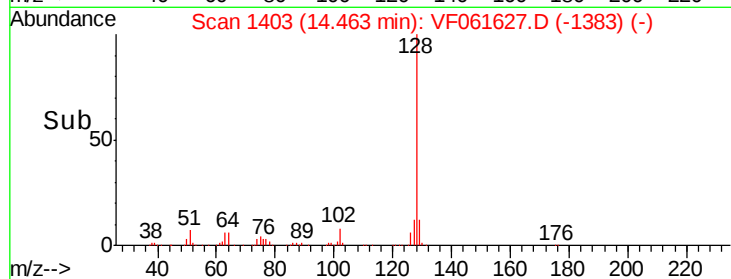
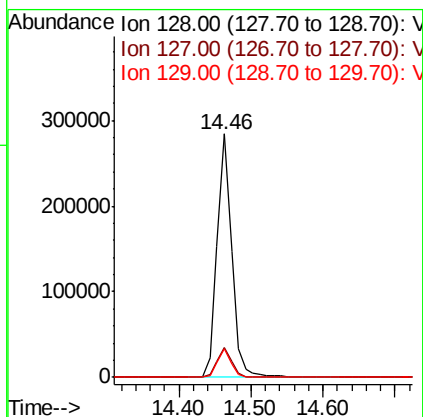
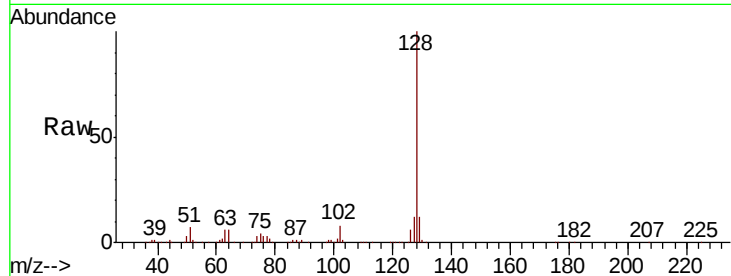
#95
Naphthalene
Concen: 49.913 ug/l
RT: 14.46 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.6
129	11.8	9.4	14.2

Manual Integrations
APPROVED

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2/14/2019 12:42:00 PM



#96
1,2,3-Trichlorobenzene
Concen: 54.883 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. 0.00 min
Lab File: VF061627.D
Acq: 13 Feb 2019 17:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.1	49.0	147.2
145	30.7	15.4	46.1

