

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059864.D
 Acq On : 4 Aug 2018 4:16
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
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apatel
 8/6/2018 10:25:54 AM

Quant Time: Aug 04 05:42:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 05:27:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	183867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	268152	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	243681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	176718	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	68381	20.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	40.72%	
35) Dibromofluoromethane	4.30	113	55668	19.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	39.70%	
50) Toluene-d8	7.71	98	118275	18.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	36.48%	
62) 4-Bromofluorobenzene	11.51	95	66022	18.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	36.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	65533	24.40	ug/l	98
3) Chloromethane	1.09	50	31244	23.86	ug/l	99
4) Vinyl Chloride	1.15	62	31768	23.58	ug/l #	88
5) Bromomethane	1.33	94	29439	26.39	ug/l	94
6) Chloroethane	1.42	64	20456	24.14	ug/l	97
7) Trichlorofluoromethane	1.53	101	86589m	24.13	ug/l	
8) Diethyl Ether	1.70	74	12315	20.57	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.89	101	50392	26.84	ug/l #	90
10) Methyl Iodide	1.96	142	69698	23.38	ug/l	96
11) Tert butyl alcohol	2.68	59	13910	94.67	ug/l #	85
12) 1,1-Dichloroethene	1.85	96	34146	22.88	ug/l	78
13) Acrolein	2.08	56	7679	120.37	ug/l	99
14) Allyl chloride	2.19	41	54043	22.59	ug/l	94
15) Acrylonitrile	3.08	53	23977	98.56	ug/l #	91
16) Acetone	2.34	43	63270	104.99	ug/l	98
17) Carbon Disulfide	1.88	76	89832	24.18	ug/l	99
18) Methyl Acetate	2.46	43	21316	18.94	ug/l	96
19) Methyl tert-butyl Ether	2.53	73	100320	22.65	ug/l	97
20) Methylene Chloride	2.28	84	33910m	19.65	ug/l	
21) trans-1,2-Dichloroethene	2.41	96	33873	22.66	ug/l #	93
22) Diisopropyl ether	2.93	45	110111	22.18	ug/l	94
23) Vinyl Acetate	3.33	43	265948	105.50	ug/l	98
24) 1,1-Dichloroethane	3.00	63	81511	23.43	ug/l	100
25) 2-Butanone	4.52	43	69641	107.28	ug/l #	87
26) 2,2-Dichloropropane	3.77	77	49491	20.66	ug/l	92
27) cis-1,2-Dichloroethene	3.64	96	36930	20.14	ug/l	96
28) Bromochloromethane	3.89	49	27671	20.49	ug/l	87
29) Tetrahydrofuran	4.26	42	25891	100.99	ug/l	96
30) Chloroform	4.03	83	110272	22.72	ug/l	91
31) Cyclohexane	3.89	56	38996	20.67	ug/l	95
32) 1,1,1-Trichloroethane	4.28	97	87431	22.98	ug/l	98
36) 1,1-Dichloropropene	4.46	75	60347	18.92	ug/l	94
37) Ethyl Acetate	4.29	43	27546	17.74	ug/l #	87
38) Carbon Tetrachloride	4.17	117	89713m	20.50	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	48304	20.07	ug/l	92
40) Benzene	4.81	78	108355	19.57	ug/l	94
41) Methacrylonitrile	4.93	41	13196	17.30	ug/l #	89
42) 1,2-Dichloroethane	5.12	62	88082	22.28	ug/l	100
43) Isopropyl Acetate	7.12	43	26079	16.39	ug/l #	88
44) Trichloroethene	5.68	130	44279	20.63	ug/l	89
45) 1,2-Dichloropropane	6.40	63	29177	20.06	ug/l	93
46) Dibromomethane	6.25	93	28921	20.88	ug/l	92
47) Bromodichloromethane	6.55	83	78472	20.67	ug/l	98
48) Methyl methacrylate	6.88	41	20775	17.25	ug/l	90
49) 1,4-Dioxane	6.87	88	2707	291.53	ug/l #	52
51) 4-Methyl-2-Pentanone	8.41	43	147787	116.79	ug/l	94
52) Toluene	7.78	92	80166	19.51	ug/l	93
53) t-1,3-Dichloropropene	8.43	75	64597	20.02	ug/l	100
54) cis-1,3-Dichloropropene	7.46	75	63742	20.17	ug/l	90
55) 1,1,2-Trichloroethane	8.64	97	28647	19.46	ug/l	94
56) Ethyl methacrylate	8.76	69	26412	17.34	ug/l	87
57) 1,3-Dichloropropane	9.00	76	49745	19.49	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.78	63	18653	100.66	ug/l	100
59) 2-Hexanone	9.63	43	99523	99.58	ug/l	98
60) Dibromochloromethane	8.86	129	55991	21.15	ug/l	95
61) 1,2-Dibromoethane	9.14	107	35338	20.22	ug/l	100
64) Tetrachloroethene	8.30	164	45683	22.99	ug/l	98
65) Chlorobenzene	9.95	112	104347	20.89	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.08	131	56603	24.15	ug/l	95
67) Ethyl Benzene	10.05	91	194883	22.48	ug/l	100
68) m/p-Xylenes	10.27	106	136669	44.99	ug/l	94
69) o-Xylene	10.83	106	71776	22.34	ug/l	99
70) Styrene	10.90	104	108865	22.62	ug/l	98
71) Bromoform	10.89	173	33251	22.10	ug/l	93
73) Isopropylbenzene	11.23	105	241075	20.37	ug/l	98
74) N-amyl acetate	11.47	43	50470	17.29	ug/l	96
75) 1,1,1,2-Tetrachloroethane	11.79	83	41938	19.15	ug/l	99
76) 1,2,3-Trichloropropane	11.89	75	37751	20.11	ug/l	97
77) Bromobenzene	11.59	156	62170	20.19	ug/l	94
78) n-propylbenzene	11.69	91	285151	20.67	ug/l	98
79) 2-Chlorotoluene	11.81	91	174397	20.34	ug/l	100
80) 1,3,5-Trimethylbenzene	11.92	105	226485	21.25	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.96	75	12985m	17.19	ug/l	
82) 4-Chlorotoluene	11.99	91	192452	21.03	ug/l	98
83) tert-Butylbenzene	12.21	119	218872	20.69	ug/l	98
84) 1,2,4-Trimethylbenzene	12.29	105	232044	21.69	ug/l	97
85) sec-Butylbenzene	12.39	105	282877	20.77	ug/l	96
86) p-Isopropyltoluene	12.54	119	243688	20.29	ug/l	99
87) 1,3-Dichlorobenzene	12.56	146	123009	20.95	ug/l	97
88) 1,4-Dichlorobenzene	12.65	146	118612	20.65	ug/l	98
89) n-Butylbenzene	12.92	91	239720	21.22	ug/l	98
90) Hexachloroethane	12.99	117	62393	20.69	ug/l	84
91) 1,2-Dichlorobenzene	13.02	146	115709	20.37	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.71	75	9878	18.14	ug/l	83

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VSTDICC020

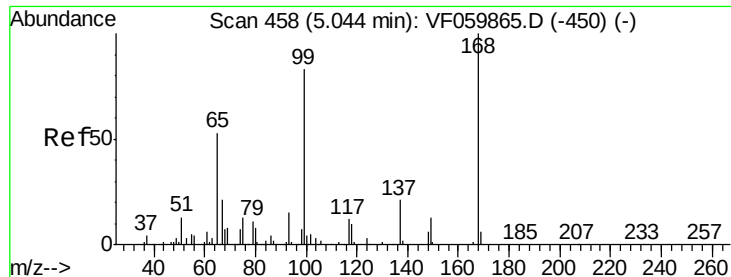
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	89527	20.29	ug/l	97
94) Hexachlorobutadiene	14.25	225	65398	22.11	ug/l	93
95) Naphthalene	14.52	128	148592	19.25	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	86310	20.14	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 183867

Ion Ratio Lower Upper

168 100

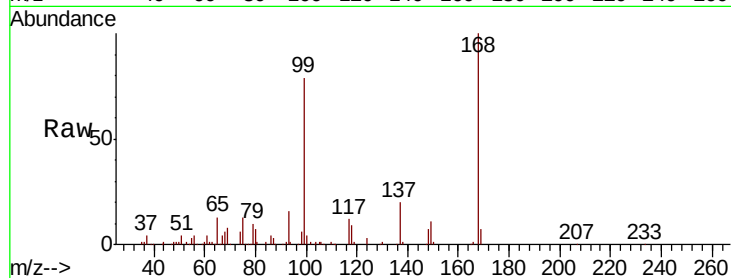
99 78.7 66.3 99.5

Manual Integrations

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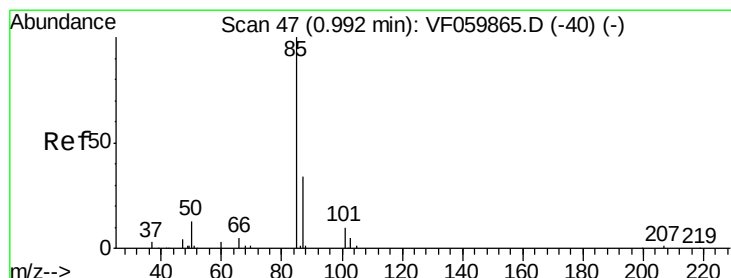
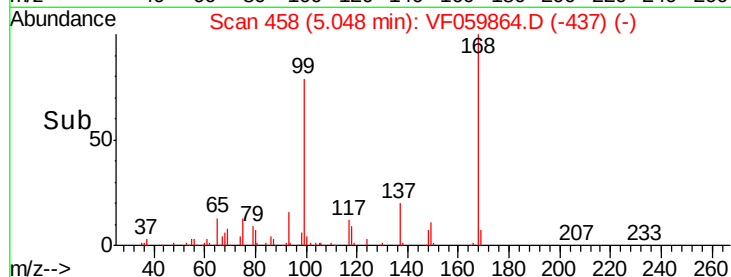
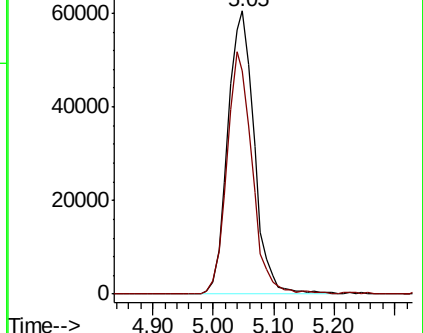
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 24.40 ug/l

RT: 0.99 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF059864.D

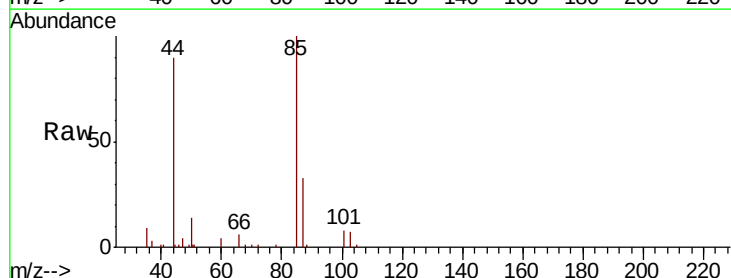
Acq: 4 Aug 2018 4:16

Tgt Ion: 85 Resp: 65533

Ion Ratio Lower Upper

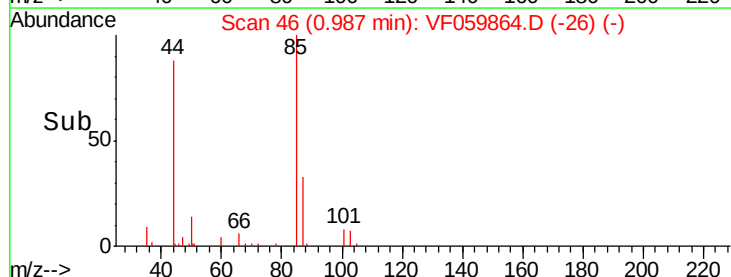
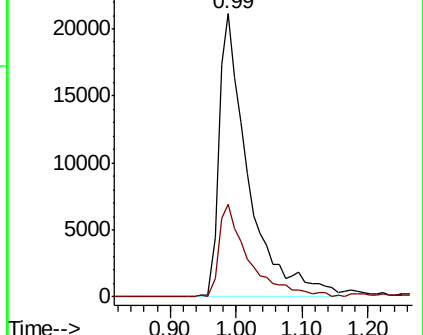
85 100

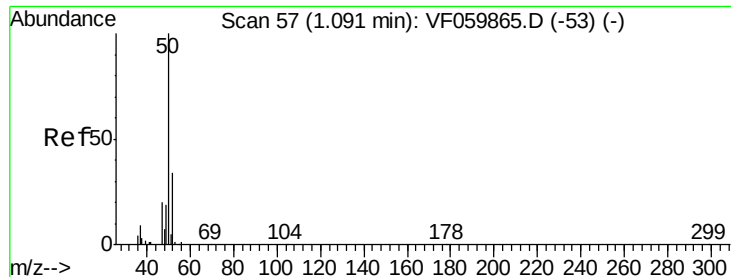
87 32.6 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 23.86 ug/l

RT: 1.09 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 31244

Ion Ratio Lower Upper

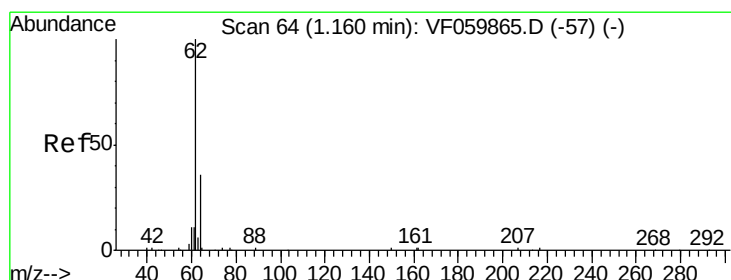
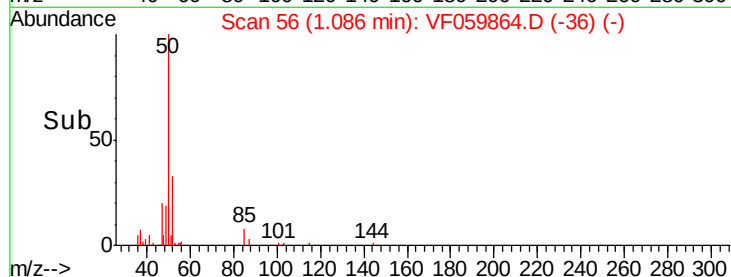
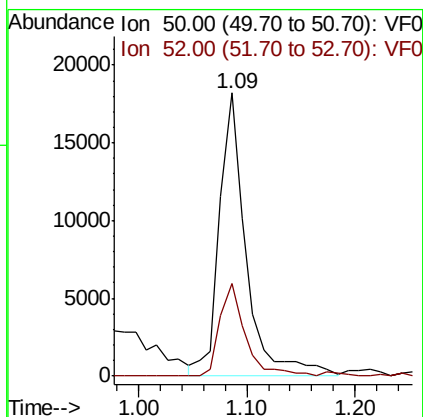
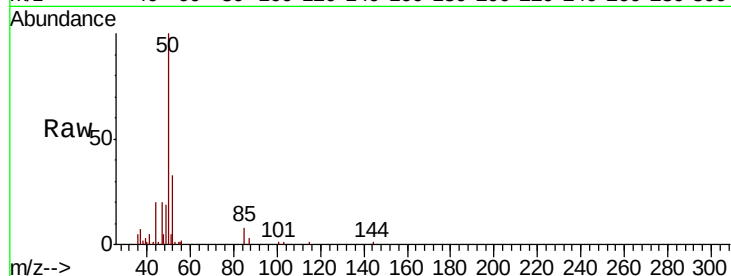
50 100

52 32.8 25.8 38.8

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#4

Vinyl Chloride

Concen: 23.58 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF059864.D

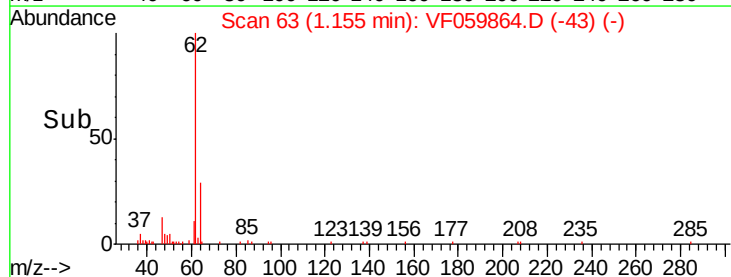
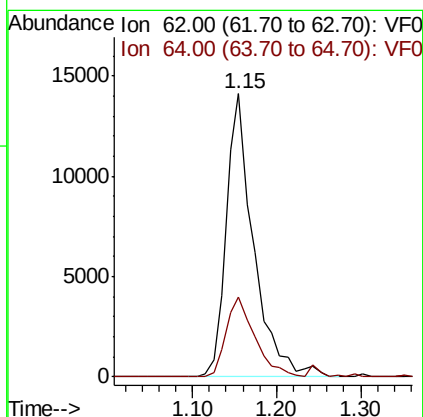
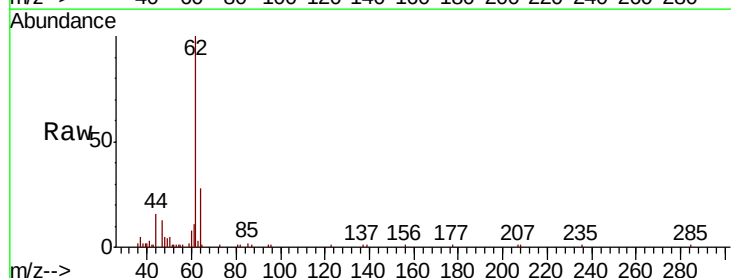
Acq: 4 Aug 2018 4:16

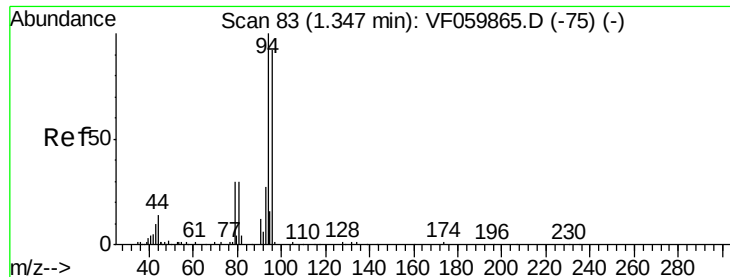
Tgt Ion: 62 Resp: 31768

Ion Ratio Lower Upper

62 100

64 28.4 28.5 42.7#





#5

Bromomethane

Concen: 26.39 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.02 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 29439

Ion Ratio Lower Upper

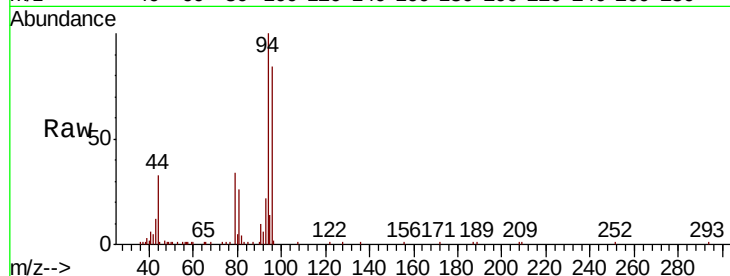
94 100

96 86.1 73.8 110.8

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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

15000

10000

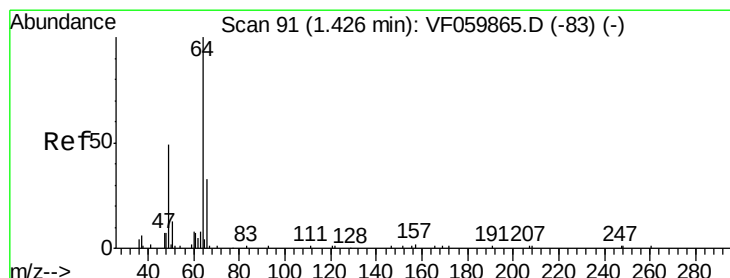
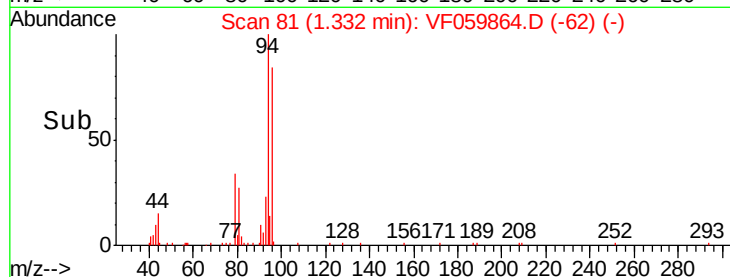
5000

0

1.33

1.20 1.30 1.40 1.50

Time-->



#6

Chloroethane

Concen: 24.14 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059864.D

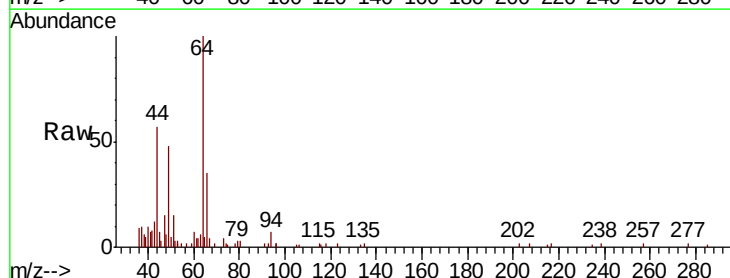
Acq: 4 Aug 2018 4:16

Tgt Ion: 64 Resp: 20456

Ion Ratio Lower Upper

64 100

66 35.1 26.9 40.3



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

8000

6000

4000

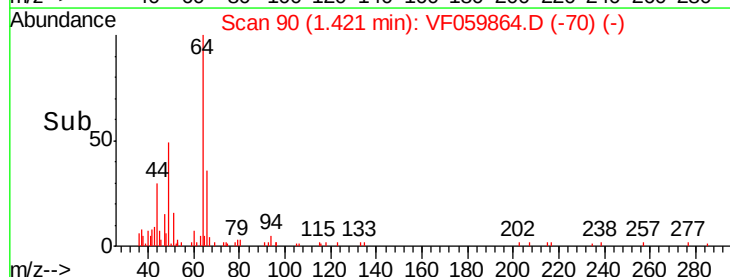
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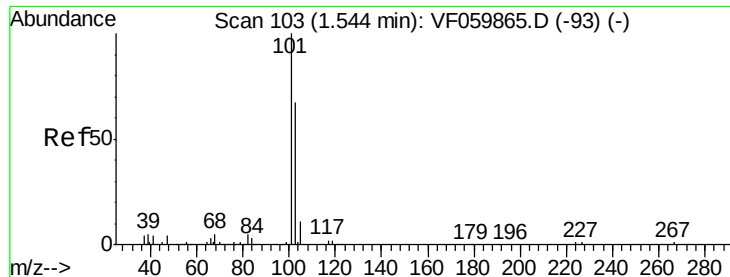
0

1.42

1.30 1.40 1.50 1.60

Time-->





#7

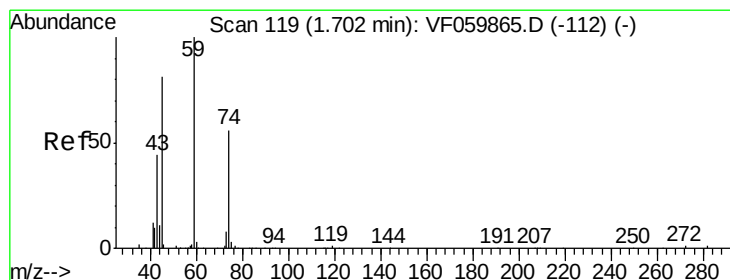
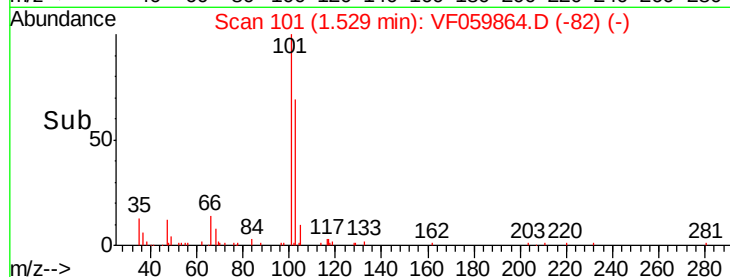
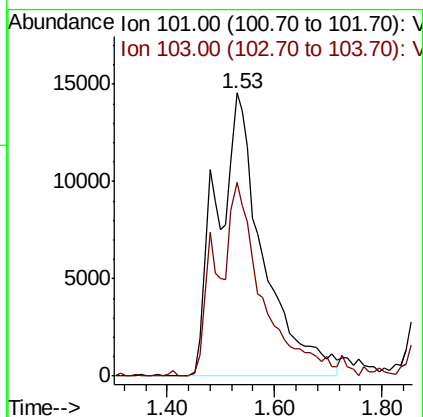
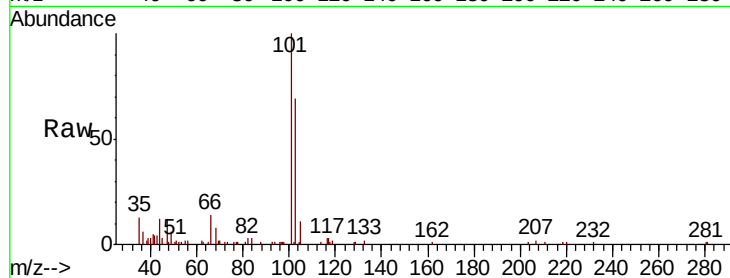
Trichlorofluoromethane
 Concen: 24.13 ug/l m
 RT: 1.53 min Scan# 101
 Delta R.T. -0.02 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
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 VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.7	53.6	80.4

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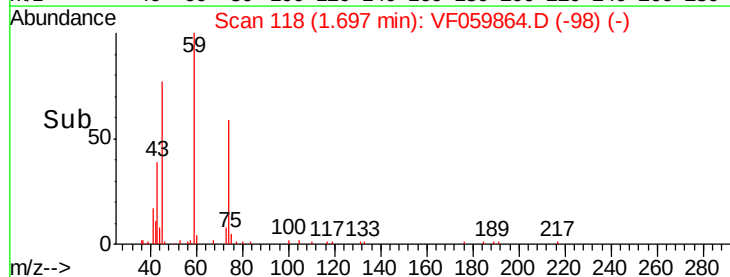
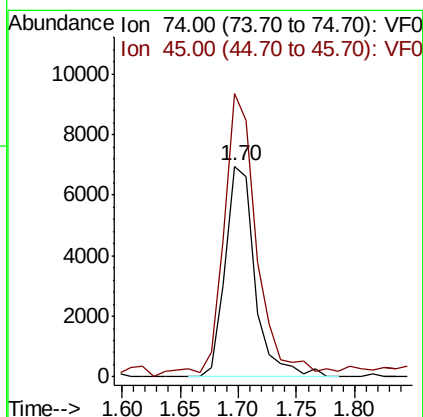
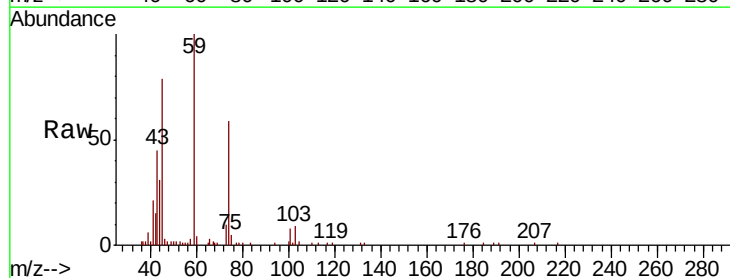
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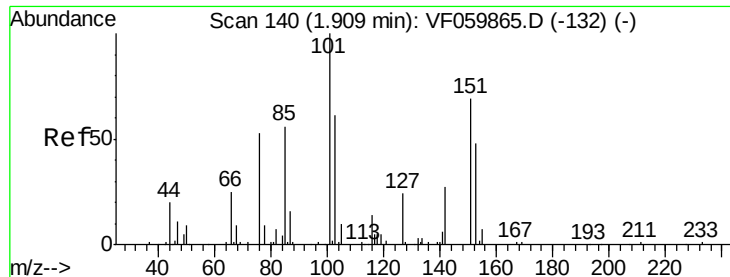


#8

Diethyl Ether
 Concen: 20.57 ug/l
 RT: 1.70 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	134.5	73.6	220.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 26.84 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

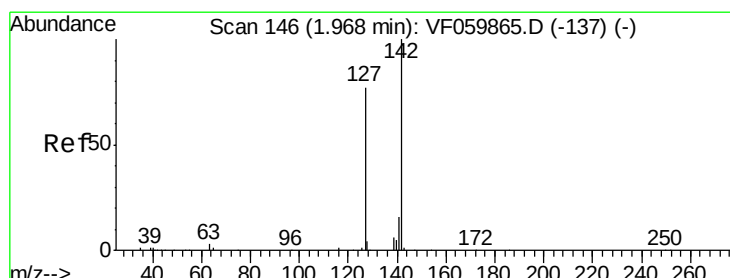
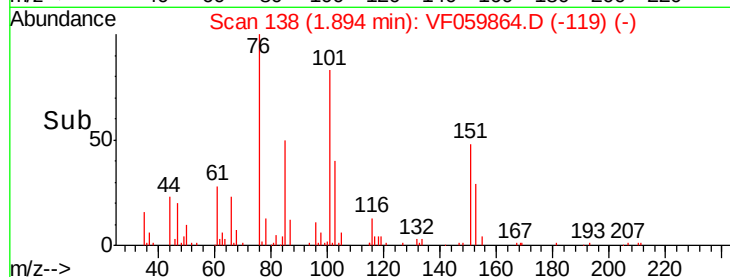
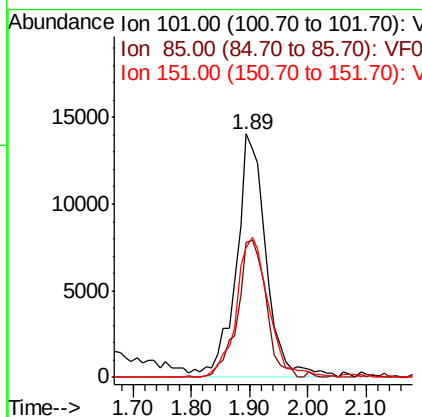
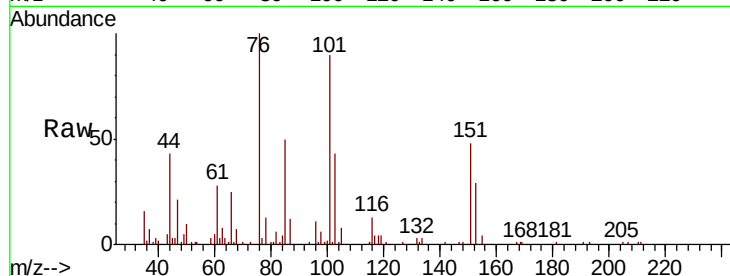
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	50392
Ion Ratio	Lower	Upper	
101	100		
85	55.5	44.5	66.7
151	53.2	53.8	80.8#

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#10

Methyl Iodide

Concen: 23.38 ug/l

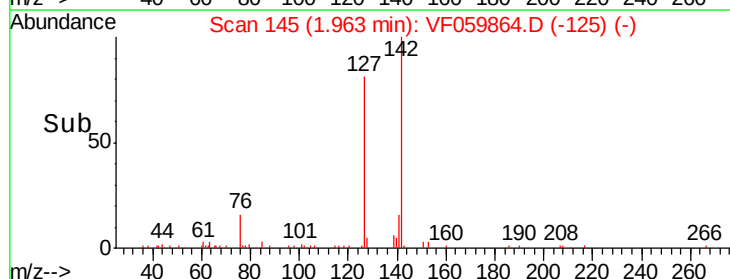
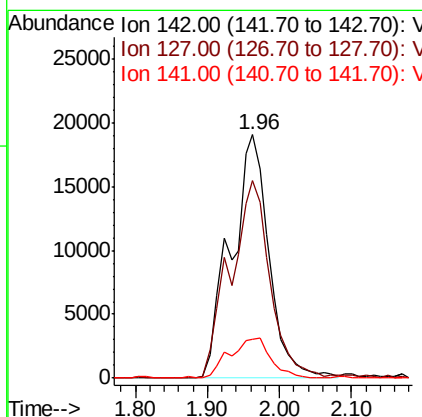
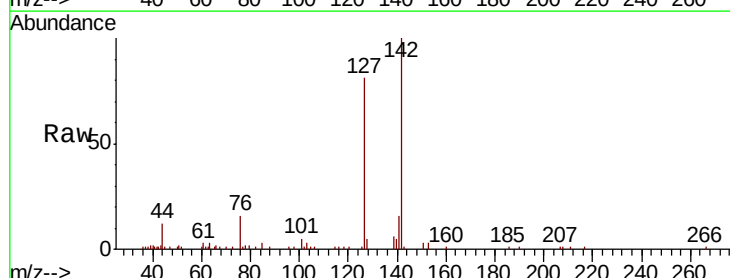
RT: 1.96 min Scan# 145

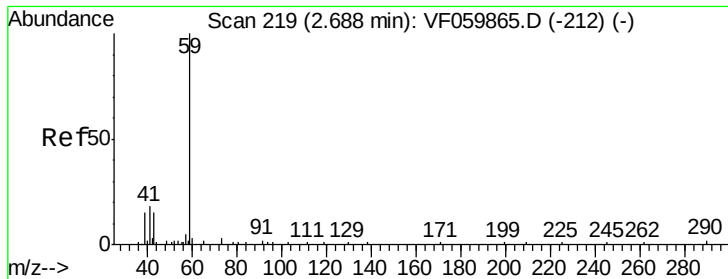
Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	142	Resp:	69698
Ion Ratio	Lower	Upper	
142	100		
127	80.9	61.5	92.3
141	15.8	13.0	19.4





#11

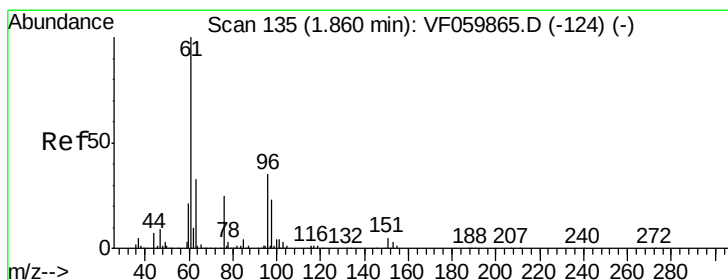
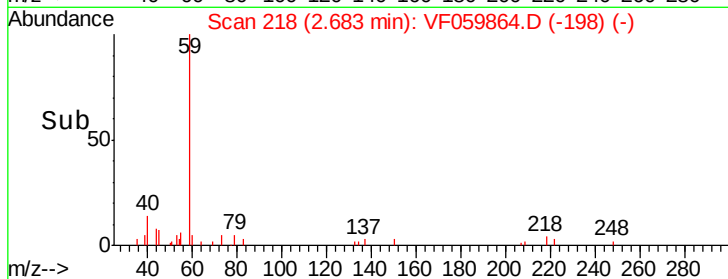
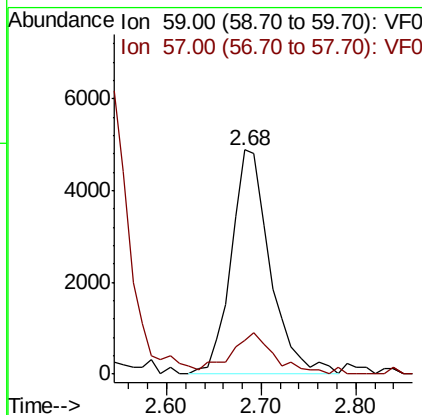
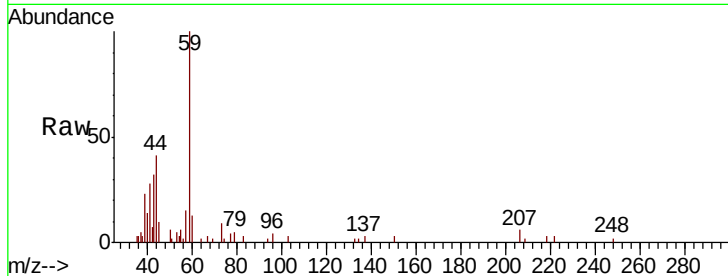
Tert butyl alcohol
Concen: 94.67 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	59	Resp	13910
Ion Ratio	100	Lower	Upper
57	14.8	7.6	11.4#

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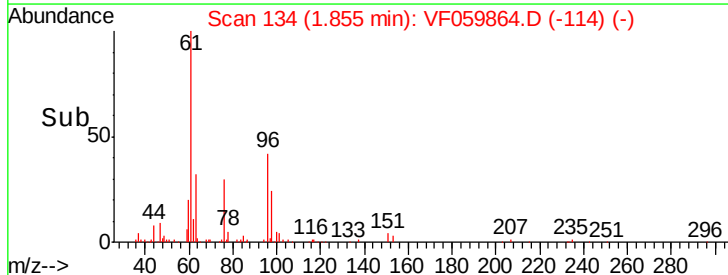
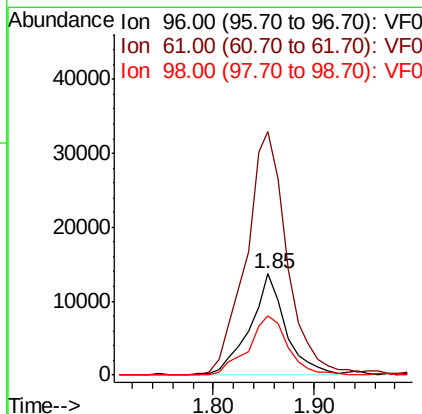
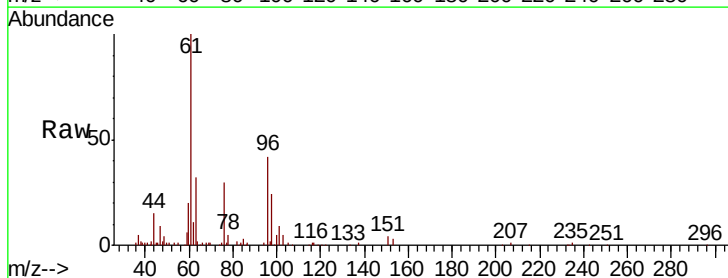
apatel
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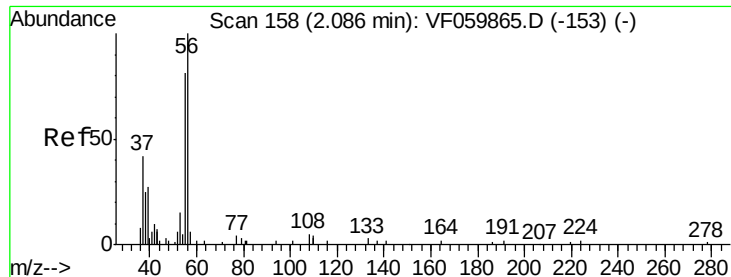


#12

1,1-Dichloroethene
Concen: 22.88 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	96	Resp	34146
Ion Ratio	100	Lower	Upper
61	240.8	230.2	345.2
98	58.5	52.7	79.1





#13

Acrolein

Concen: 120.37 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 7679

Ion Ratio Lower Upper

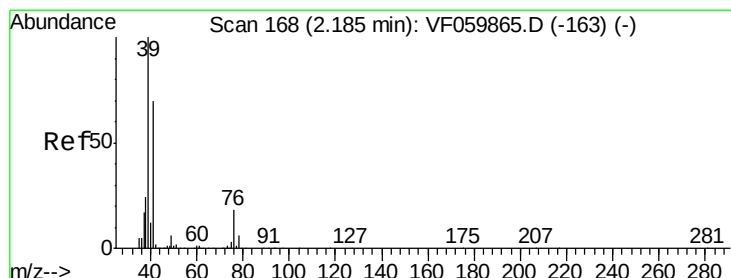
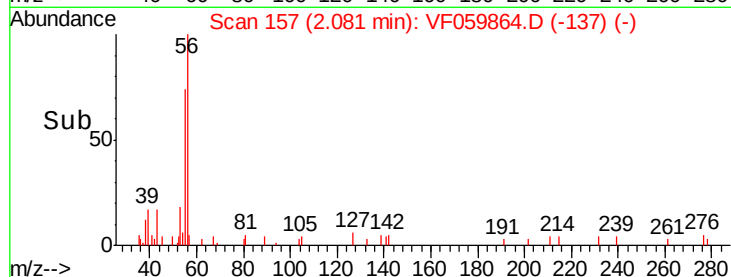
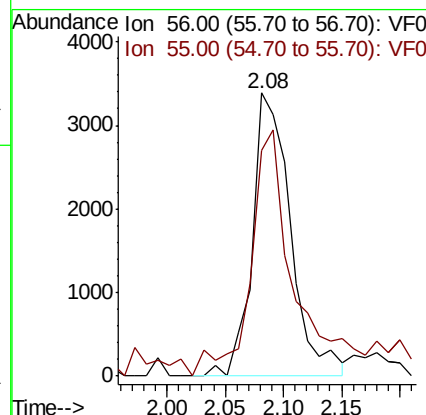
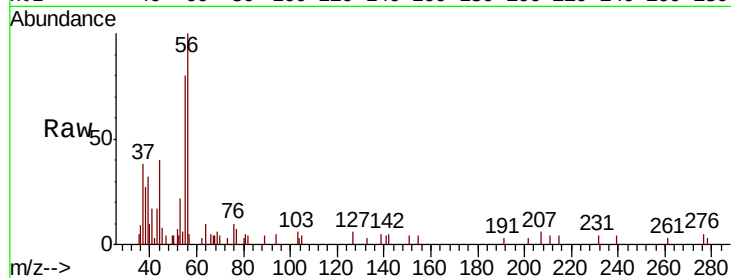
56 100

55 79.8 64.6 96.8

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#14

Allyl chloride

Concen: 22.59 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

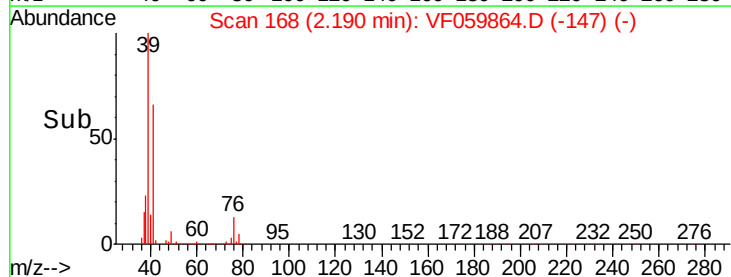
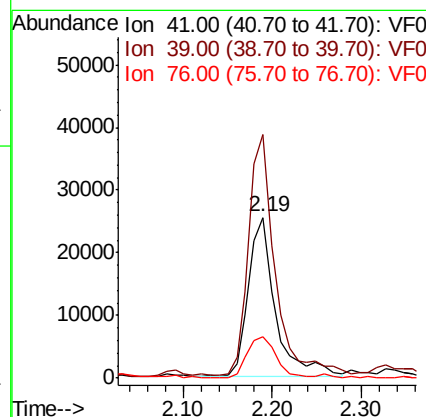
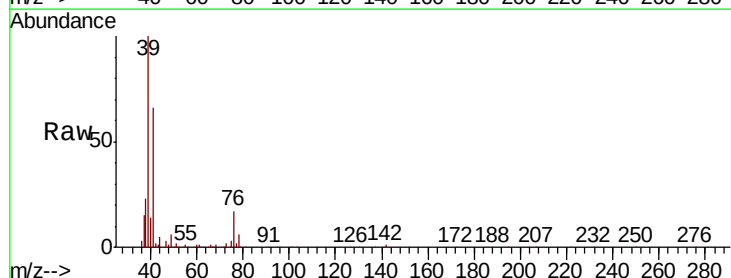
Tgt Ion: 41 Resp: 54043

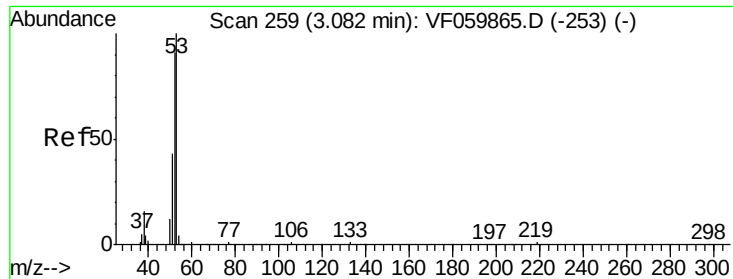
Ion Ratio Lower Upper

41 100

39 151.5 114.6 171.8

76 25.9 21.0 31.4





#15

Acrylonitrile

Concen: 98.56 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

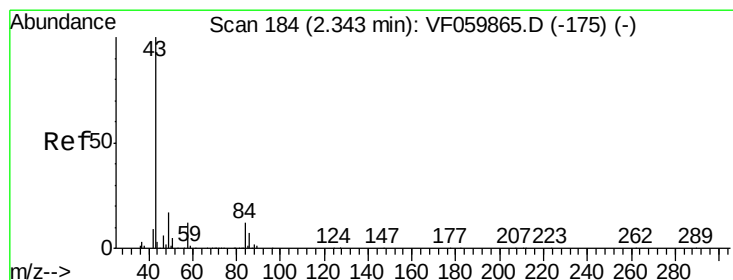
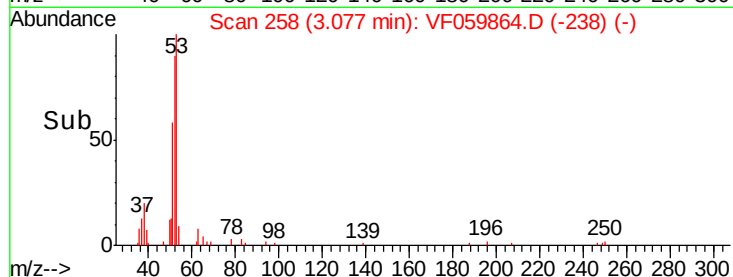
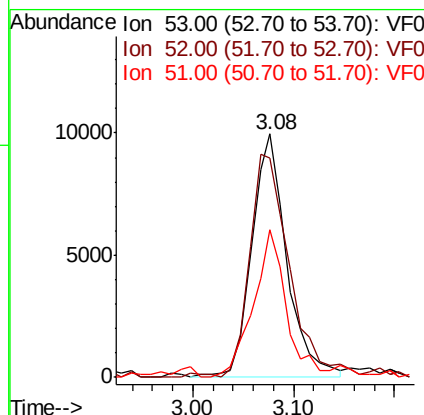
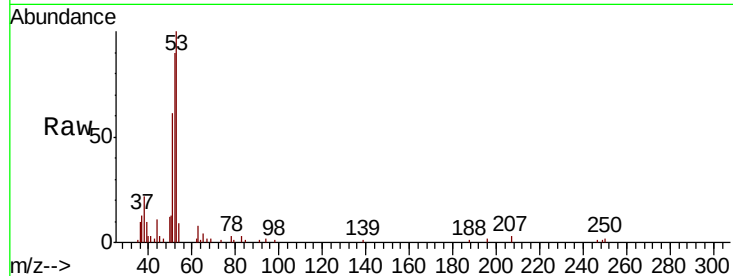
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	23977
Ion Ratio	Lower	Upper	
53	100		
52	90.1	72.9	109.3
51	60.5	34.5	51.7#

Manual Integrations
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#16

Acetone

Concen: 104.99 ug/l

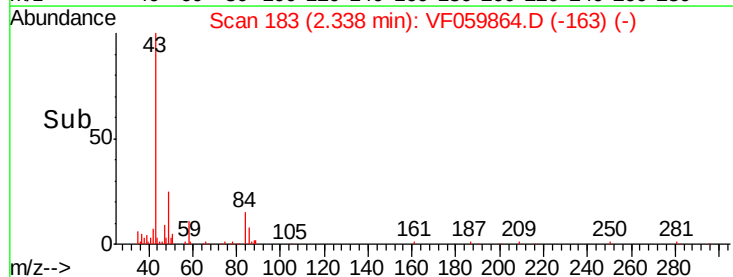
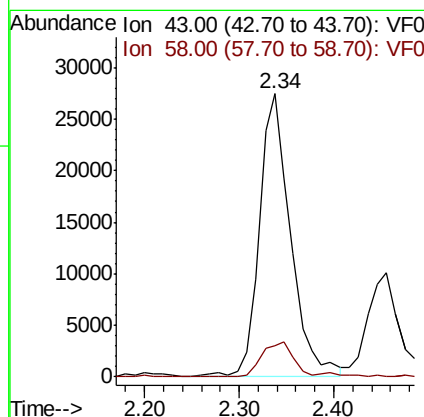
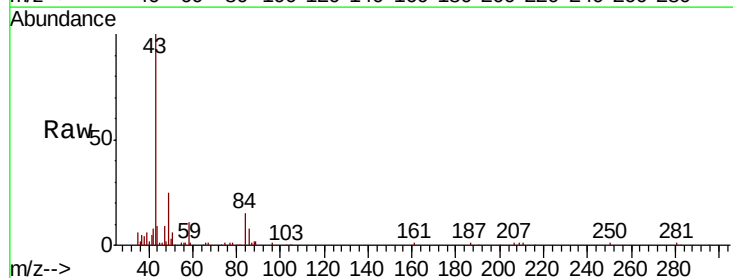
RT: 2.34 min Scan# 183

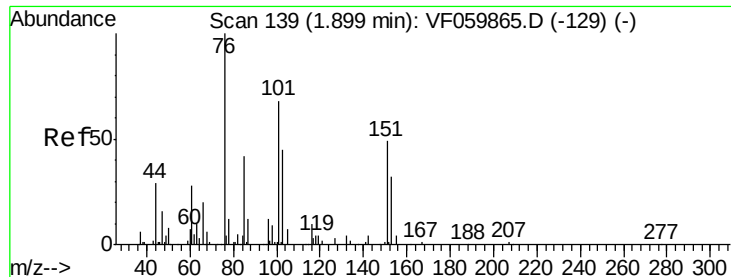
Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	43	Resp:	63270
Ion Ratio	Lower	Upper	
43	100		
58	10.9	9.4	14.0





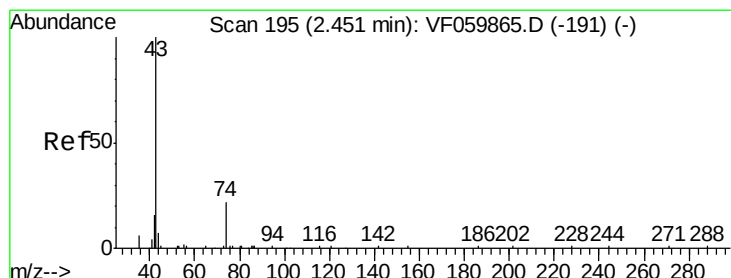
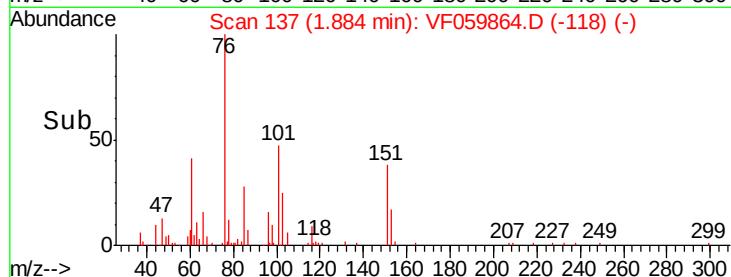
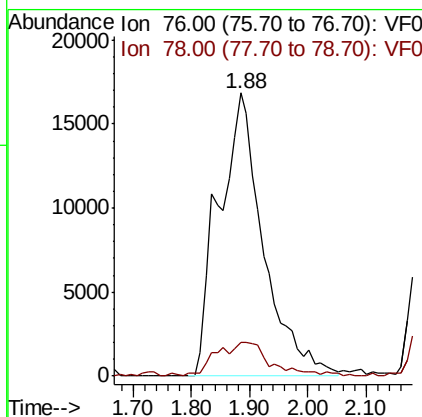
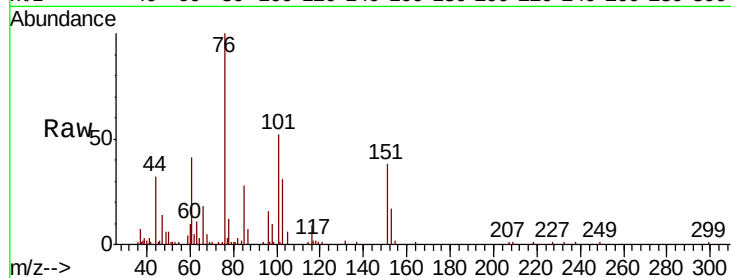
#17
Carbon Disulfide
Concen: 24.18 ug/l
RT: 1.88 min Scan# 137
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.1	9.3	13.9

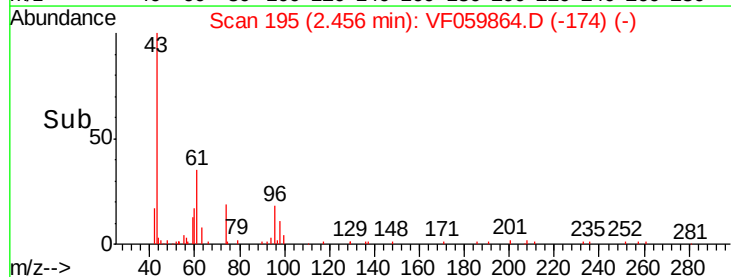
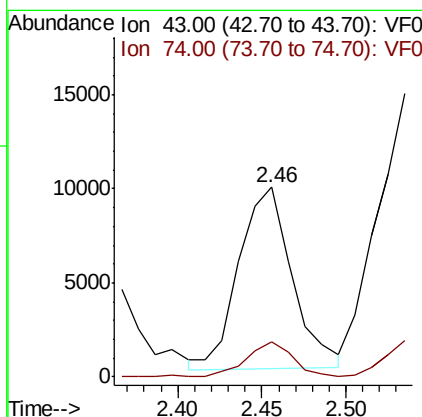
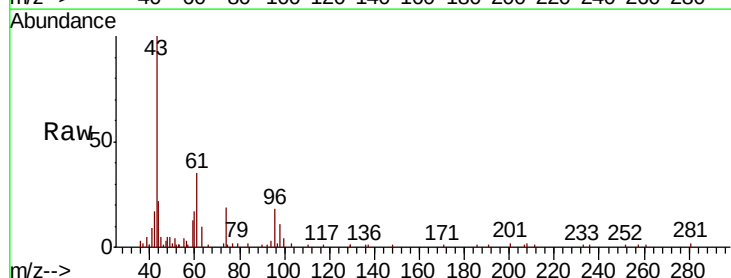
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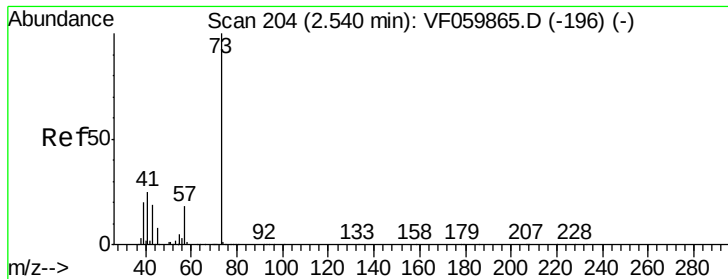
apatel
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#18
Methyl Acetate
Concen: 18.94 ug/l
RT: 2.46 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.6	16.3	24.5





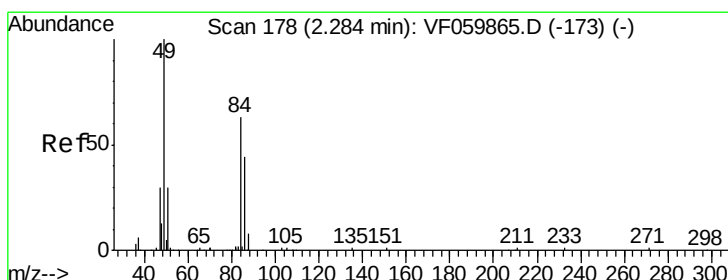
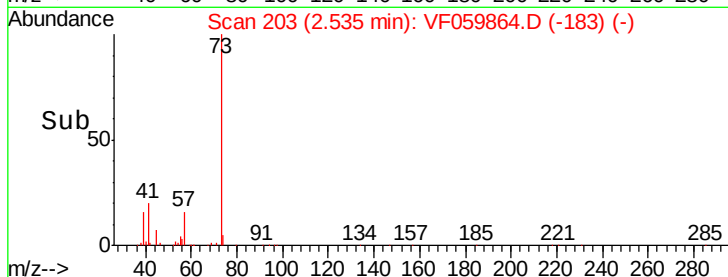
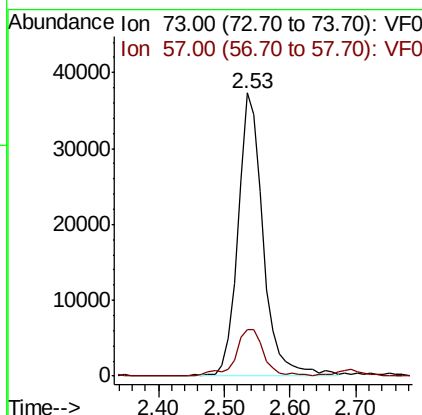
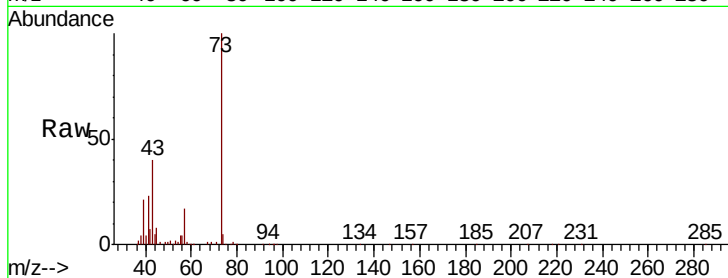
#19
Methyl tert-butyl Ether
Concen: 22.65 ug/l
RT: 2.53 min Scan# 203
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.5	14.3	21.5

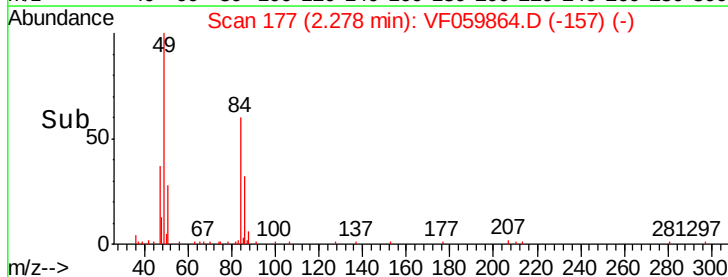
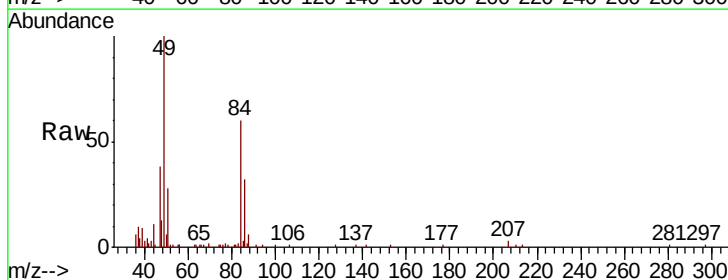
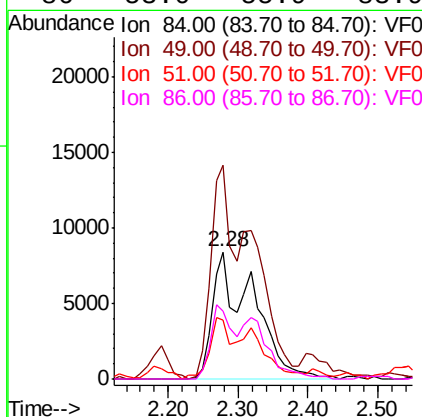
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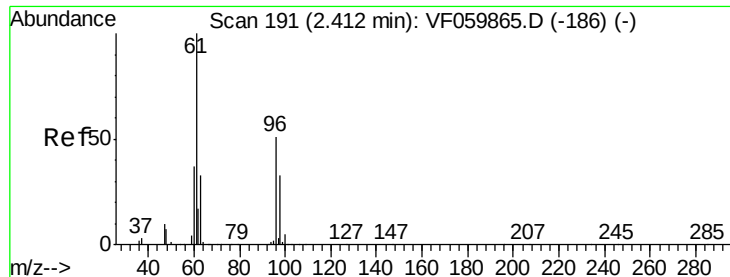
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#20
Methylene Chloride
Concen: 19.65 ug/l m
RT: 2.28 min Scan# 177
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
84	100		
49	167.9	128.7	193.1
51	46.3	39.3	58.9
86	53.0	55.9	83.9#





#21

trans-1,2-Dichloroethene

Concen: 22.66 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

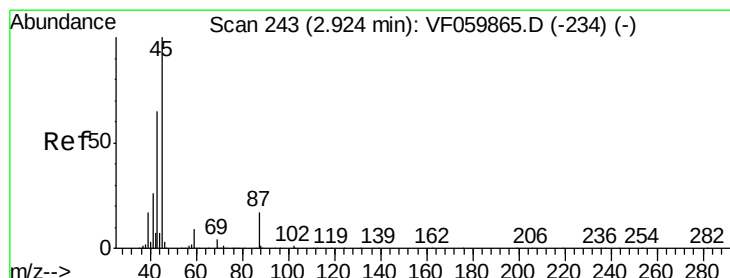
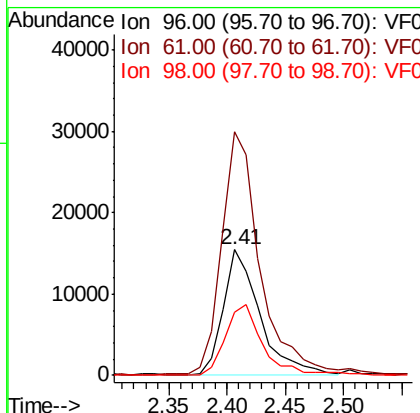
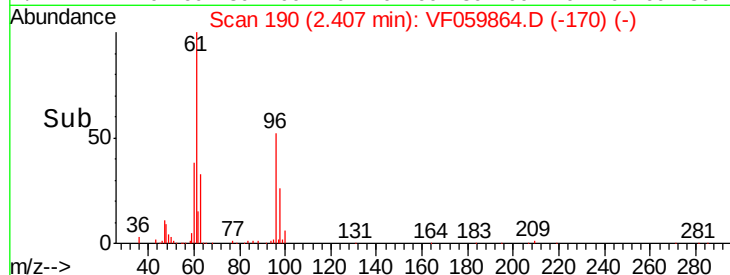
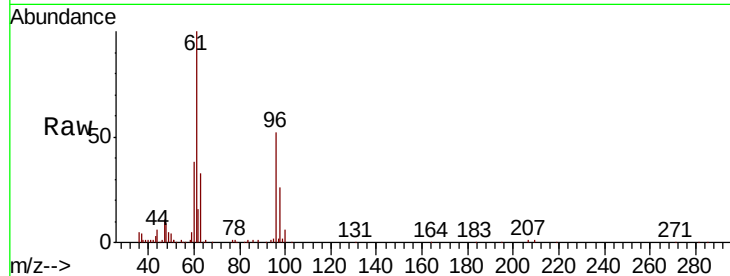
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	33873
Ion	Ratio	Lower	Upper
96	100		
61	193.9	158.2	237.4
98	50.3	52.0	78.0#

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#22

Diisopropyl ether

Concen: 22.18 ug/l

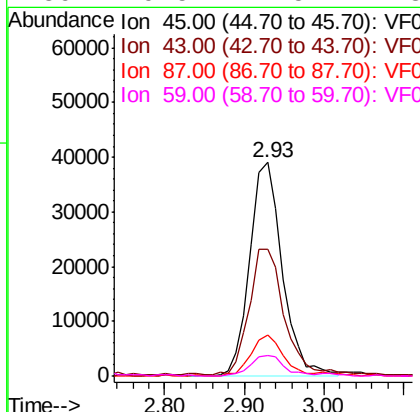
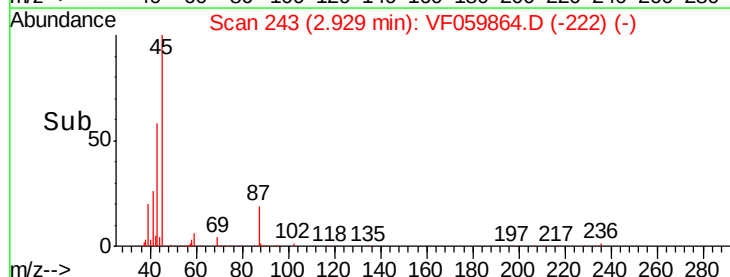
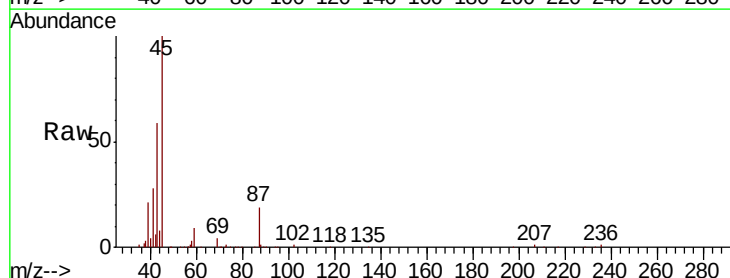
RT: 2.93 min Scan# 243

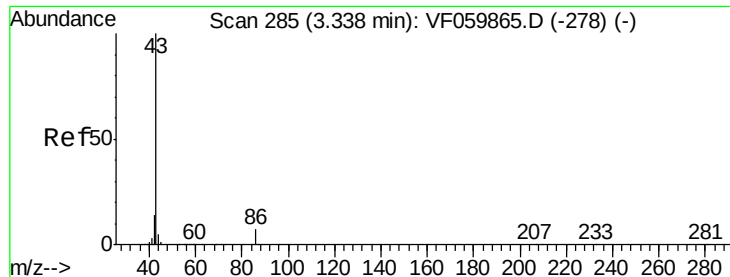
Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	45	Resp:	110111
Ion	Ratio	Lower	Upper
45	100		
43	59.3	52.1	78.1
87	19.0	13.8	20.8
59	9.5	7.5	11.3





#23

Vinyl Acetate

Concen: 105.50 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 265948

Ion Ratio Lower Upper

43 100

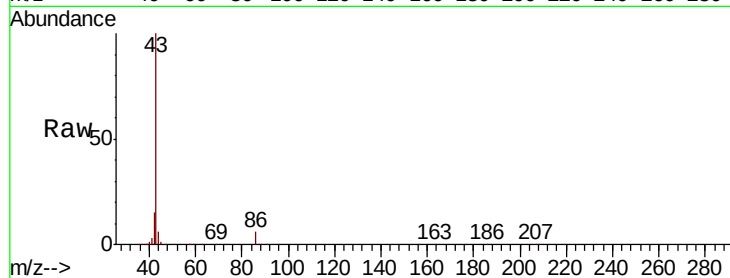
86 6.2 5.6 8.4

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.33

120000

100000

80000

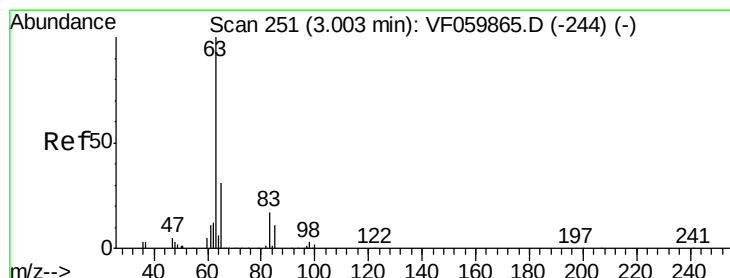
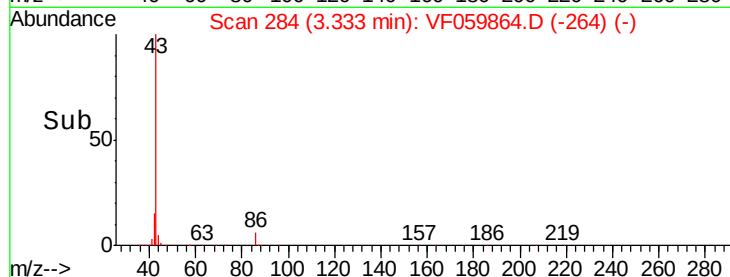
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 23.43 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

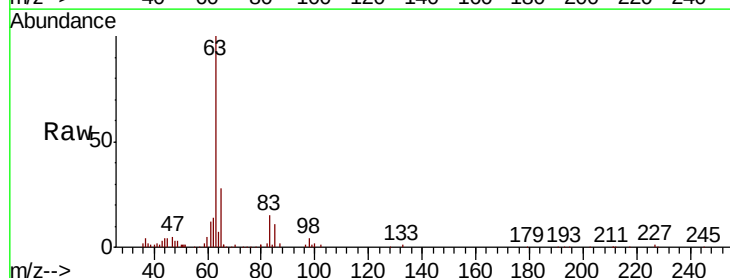
Tgt Ion: 63 Resp: 81511

Ion Ratio Lower Upper

63 100

98 3.6 1.9 5.7

100 2.2 1.1 3.5



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

3.00

40000

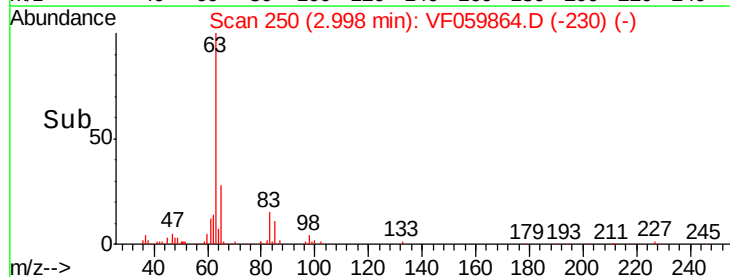
30000

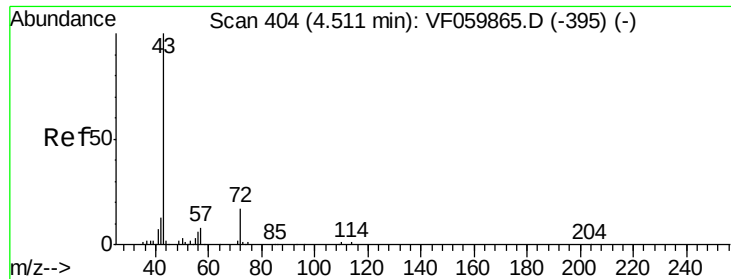
20000

10000

0

Time-->





#25

2-Butanone

Concen: 107.28 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 69641

Ion Ratio Lower Upper

43 100

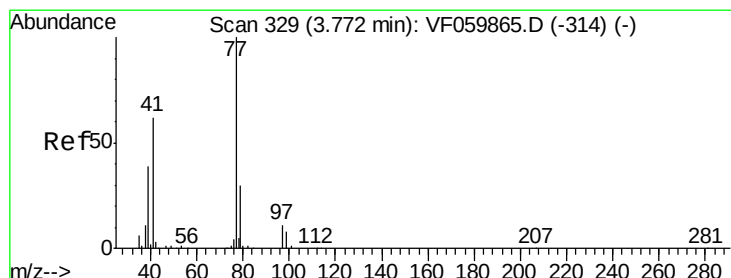
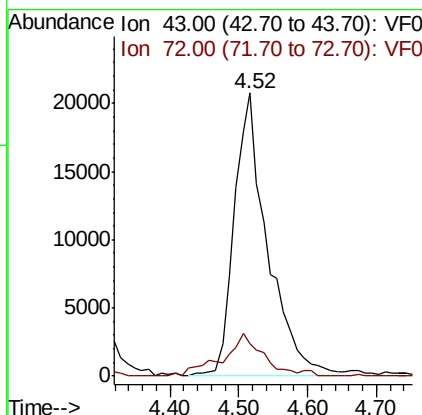
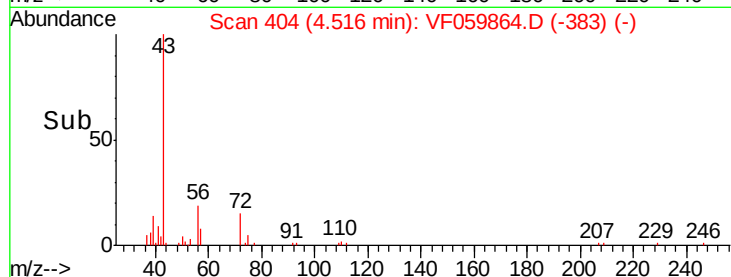
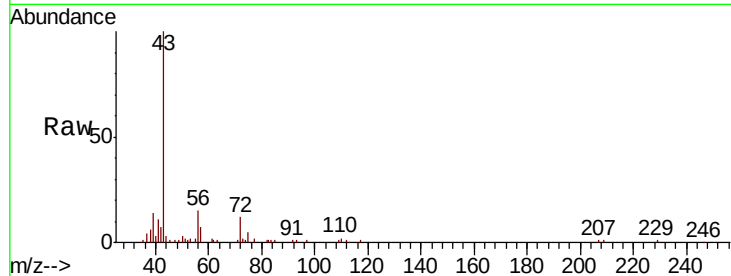
72 11.6 13.9 20.9#

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#26

2,2-Dichloropropane

Concen: 20.66 ug/l

RT: 3.77 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF059864.D

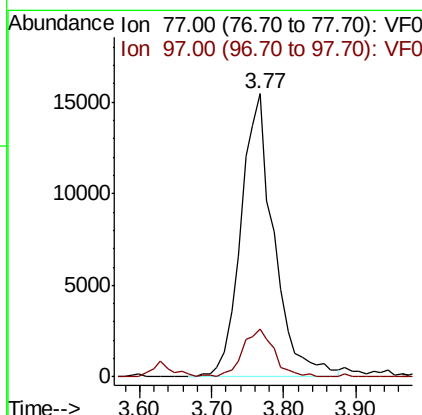
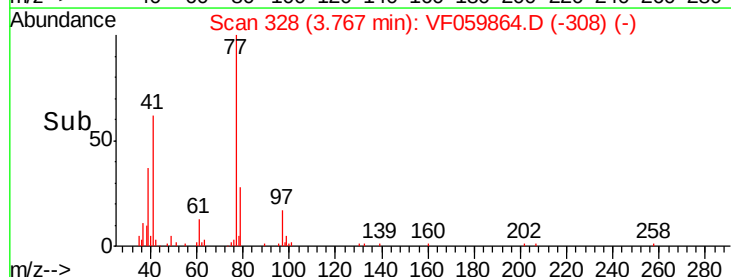
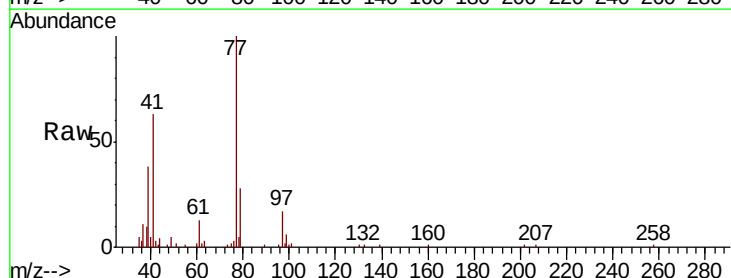
Acq: 4 Aug 2018 4:16

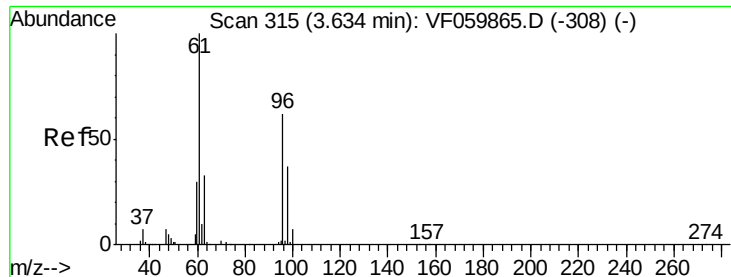
Tgt Ion: 77 Resp: 49491

Ion Ratio Lower Upper

77 100

97 16.8 6.8 20.3





#27

cis-1,2-Dichloroethene

Concen: 20.14 ug/l

RT: 3.64 min Scan# 315

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

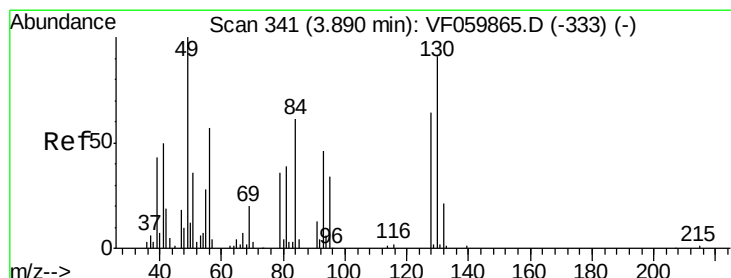
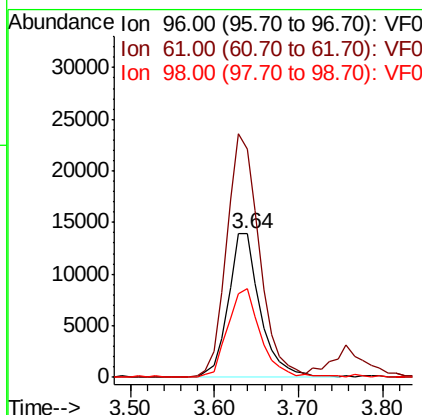
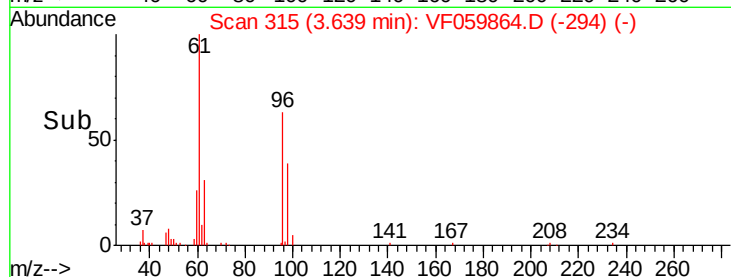
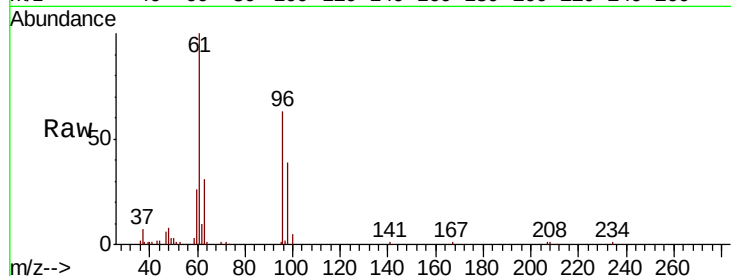
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	36930
Ion Ratio	Lower	Upper	
96	100		
61	153.3	0.0	320.8
98	60.0	0.0	117.6

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#28

Bromochloromethane

Concen: 20.49 ug/l

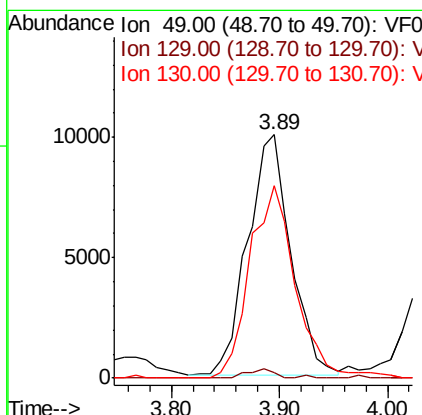
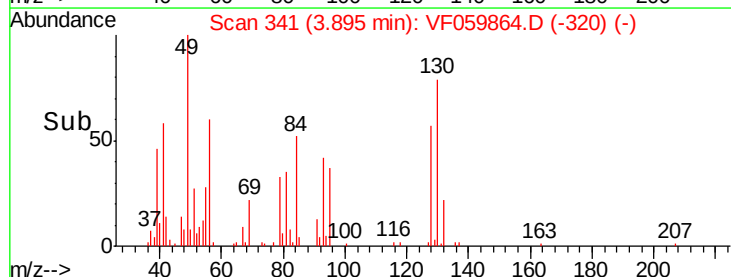
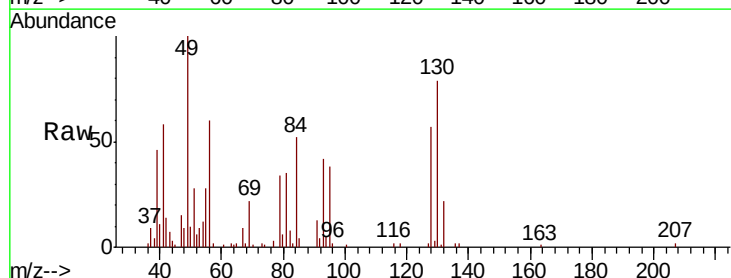
RT: 3.89 min Scan# 341

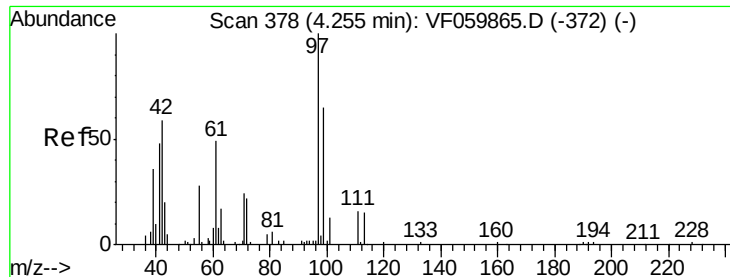
Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	49	Resp:	27671
Ion Ratio	Lower	Upper	
49	100		
129	2.5	0.0	4.6
130	79.2	73.8	110.8





#29

Tetrahydrofuran

Concen: 100.99 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

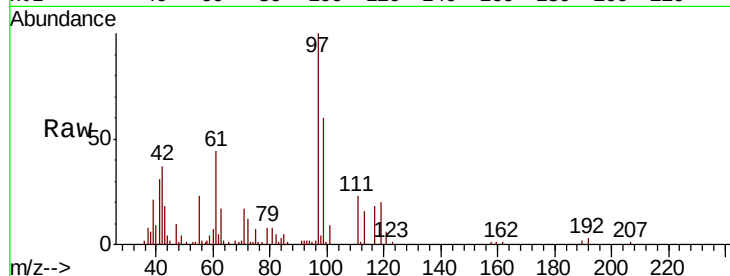
ClientSampleId :

VSTDIC020

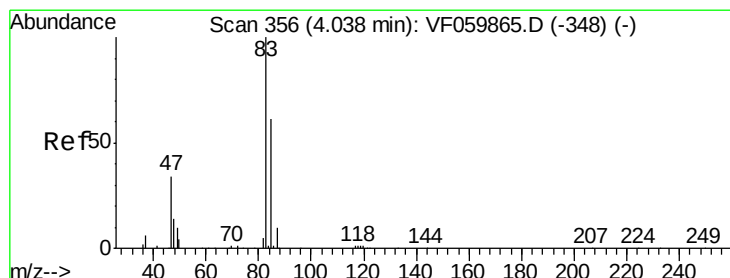
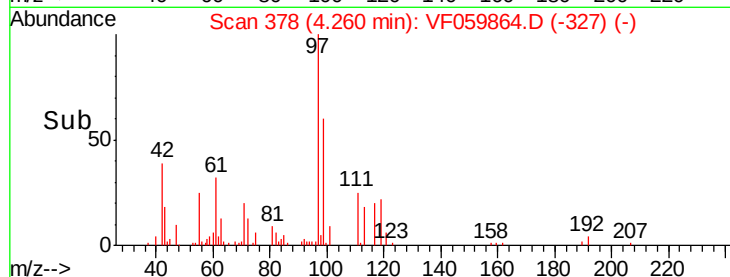
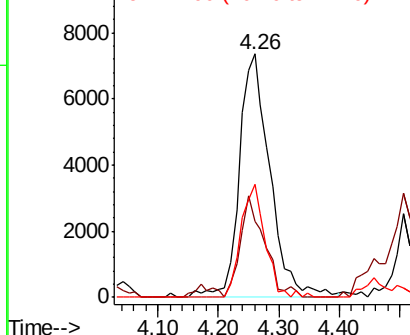
Tot Ion:	42	Resp:	25891
Ion Ratio	Lower	Upper	
42	100		
72	33.0	29.3	43.9
71	36.1	30.0	45.0

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Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 22.72 ug/l

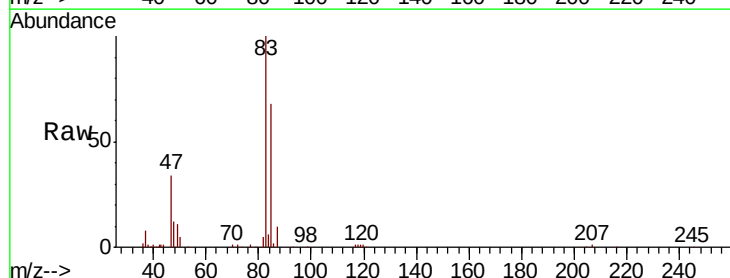
RT: 4.03 min Scan# 355

Delta R.T. -0.01 min

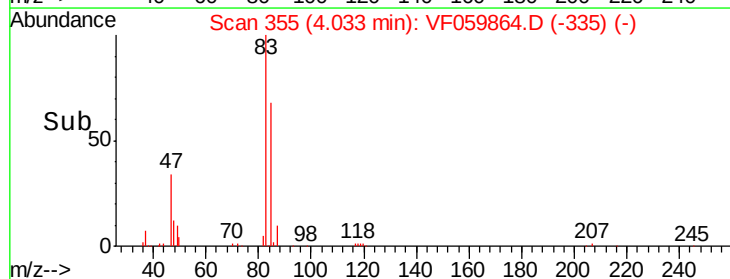
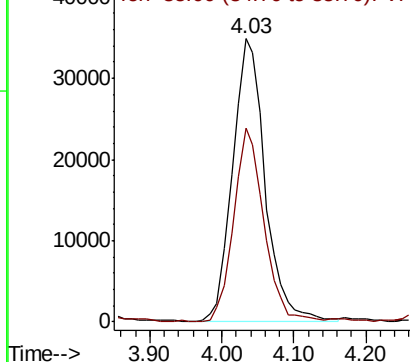
Lab File: VF059864.D

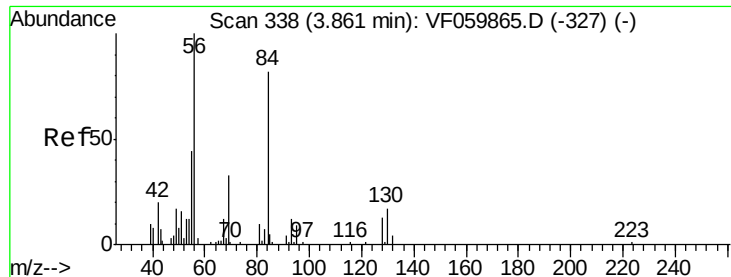
Acq: 4 Aug 2018 4:16

Tgt Ion:	83	Resp:	110272
Ion Ratio	Lower	Upper	
83	100		
85	68.2	49.3	73.9



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 20.67 ug/l

RT: 3.89 min Scan# 340

Delta R.T. 0.02 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

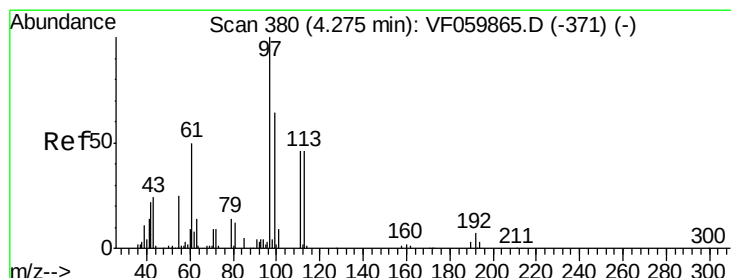
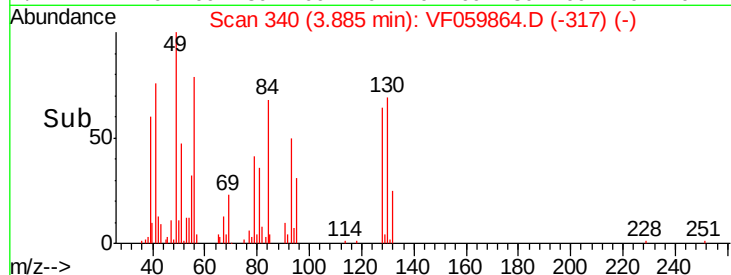
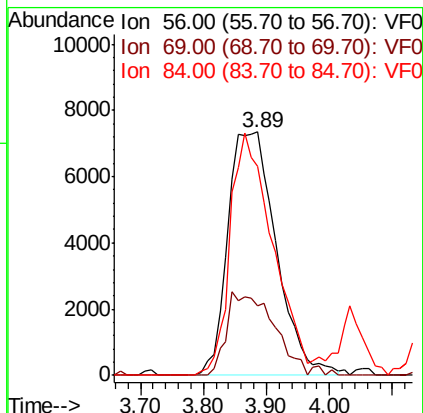
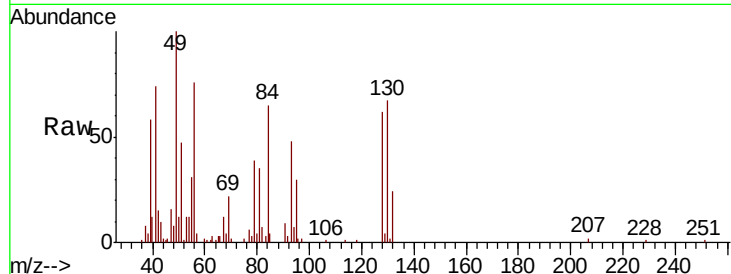
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	38996
Ion Ratio	Lower	Upper	
56	100		
69	28.6	26.7	40.1
84	86.0	65.9	98.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 22.98 ug/l

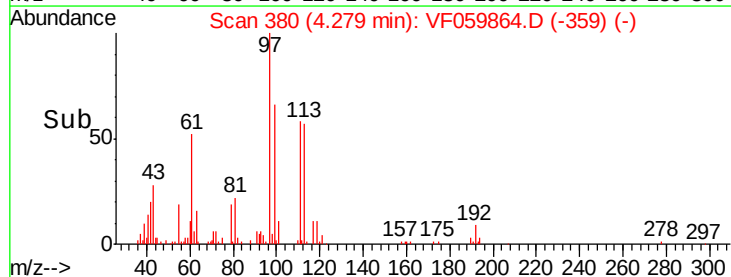
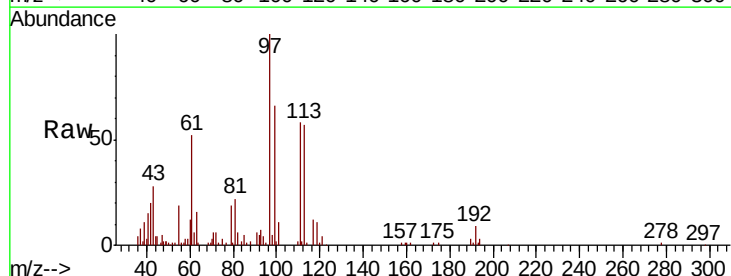
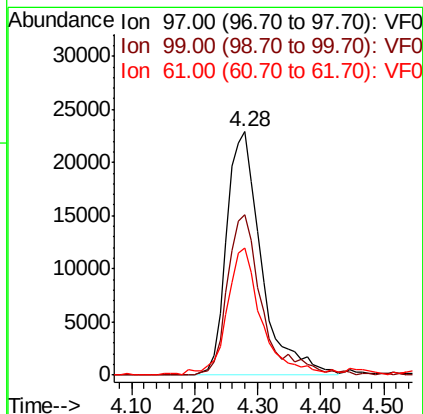
RT: 4.28 min Scan# 380

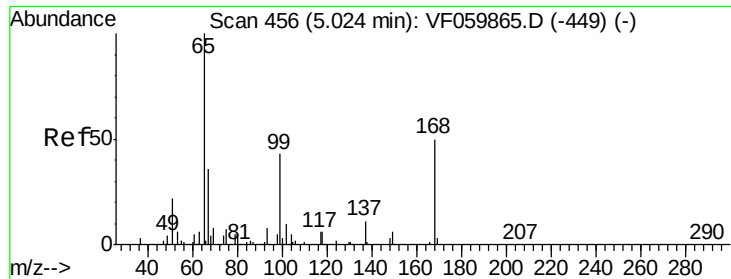
Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	97	Resp:	87431
Ion Ratio	Lower	Upper	
97	100		
99	66.0	51.4	77.2
61	52.4	40.8	61.2





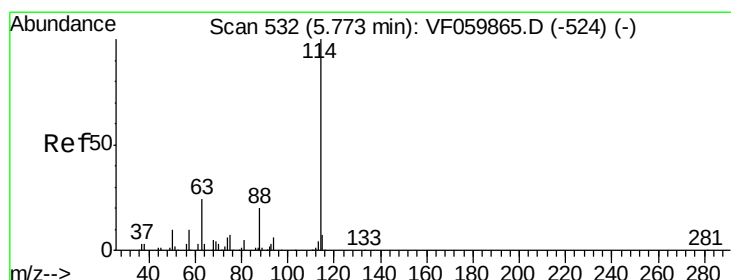
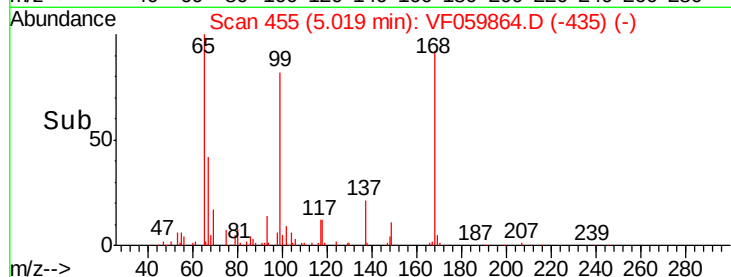
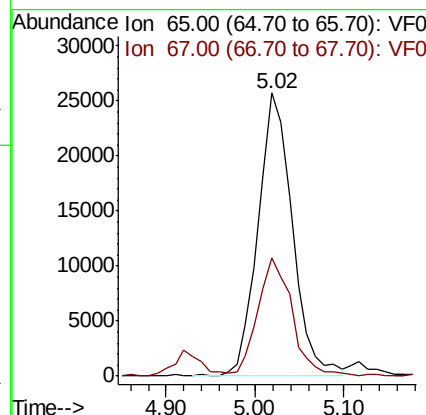
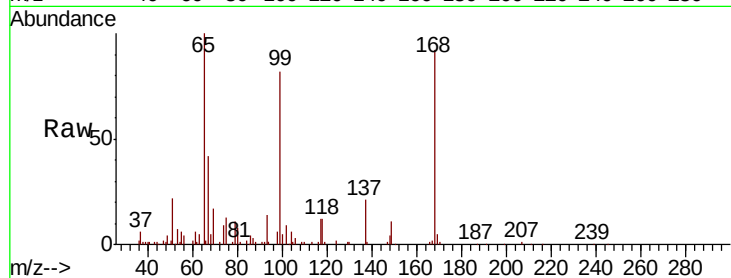
#33
 1,2-Dichloroethane-d4
 Concen: 20.36 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	68381		
67	42.0	0.0	77.2	

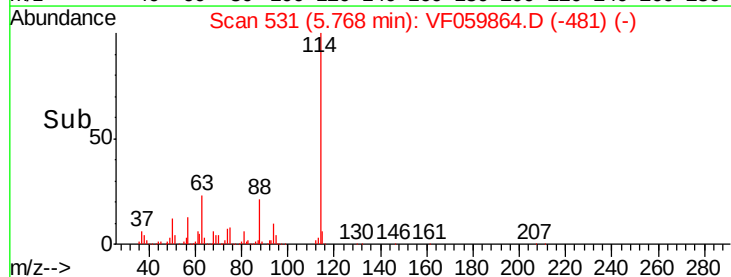
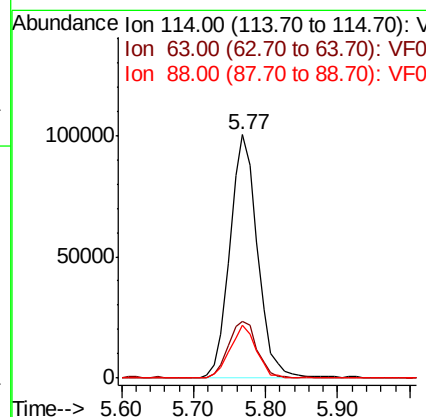
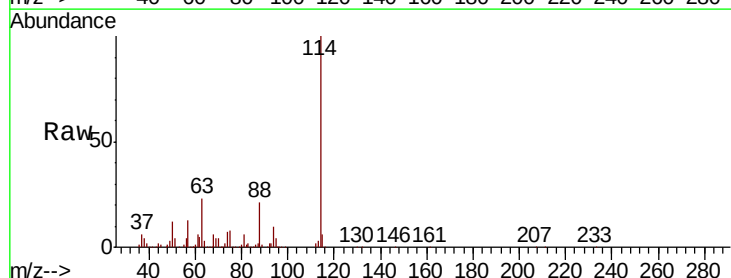
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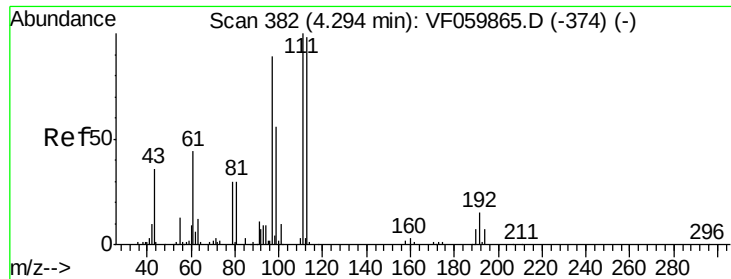
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	268152		
63	23.1	0.0	48.0	
88	21.5	0.0	39.4	





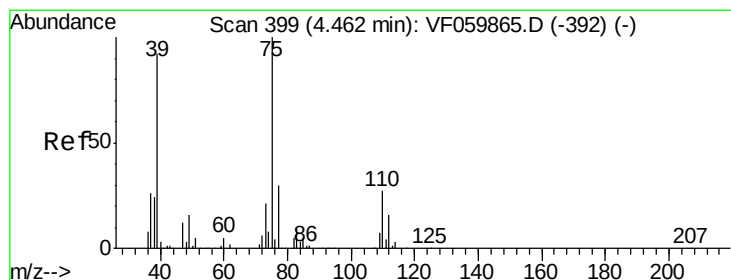
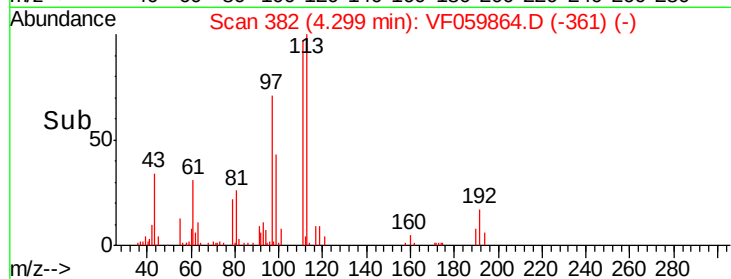
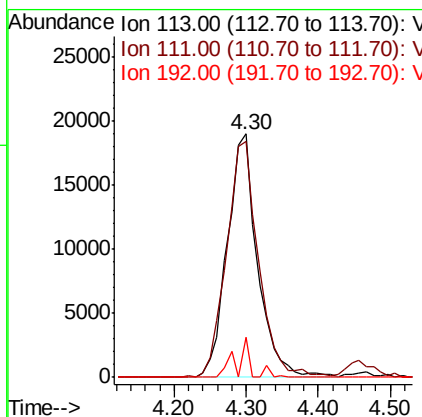
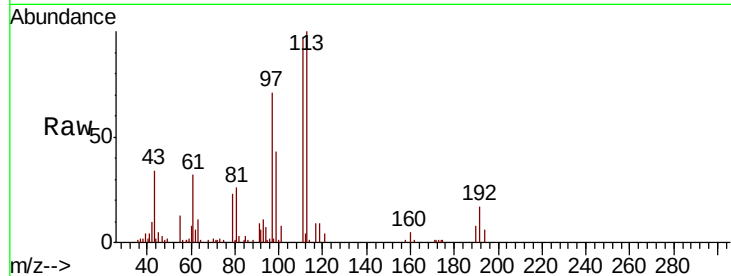
#35
 Dibromofluoromethane
 Concen: 19.85 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	97.0	81.8	122.8
192	16.5	12.4	18.6

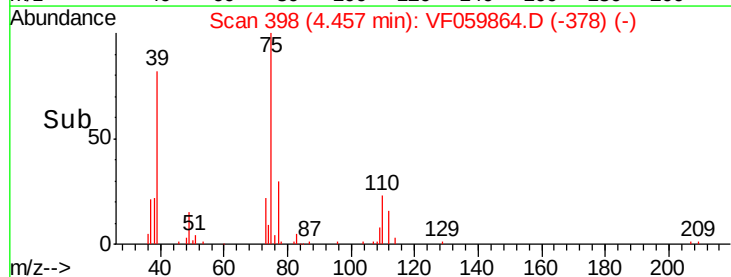
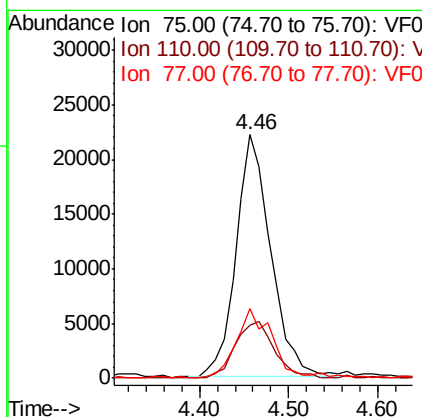
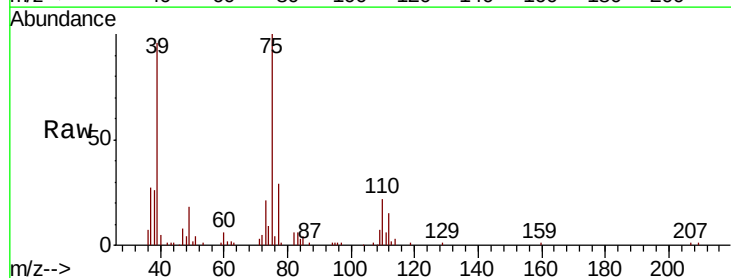
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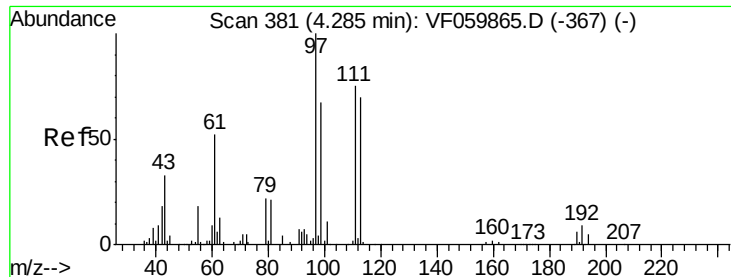
apatel
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#36
 1,1-Dichloropropene
 Concen: 18.92 ug/l
 RT: 4.46 min Scan# 398
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	22.0	13.6	40.7
77	28.6	23.7	35.5





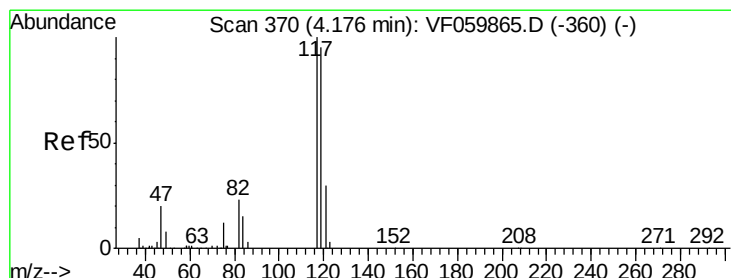
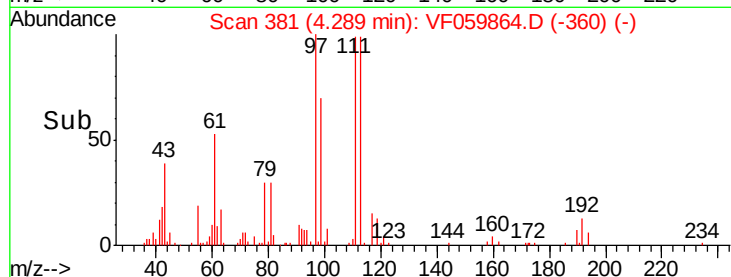
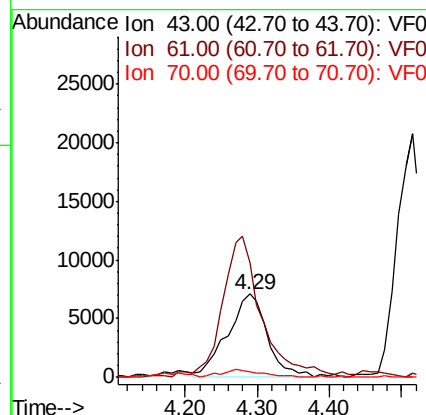
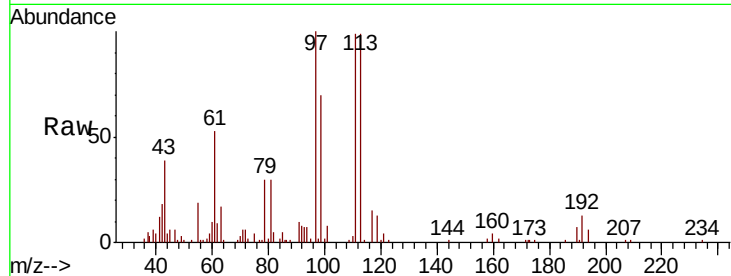
#37
Ethyl Acetate
Concen: 17.74 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	137.1	123.7	185.5
70	7.4	7.8	11.8#

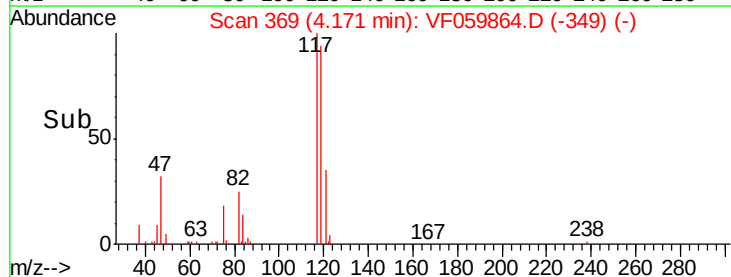
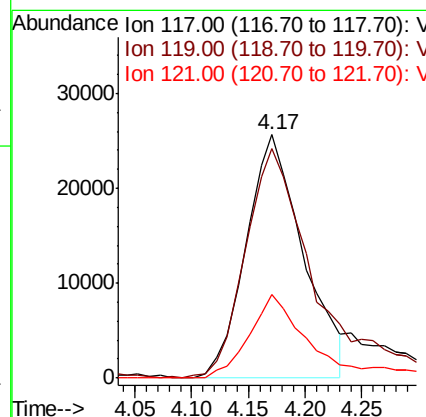
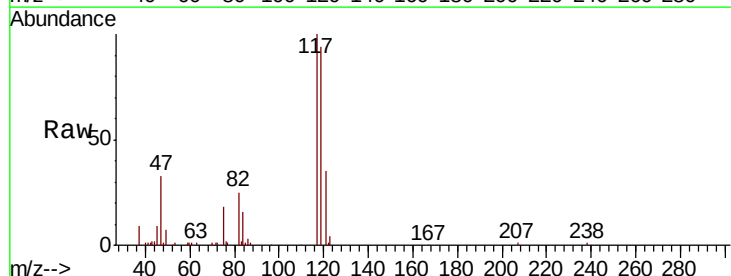
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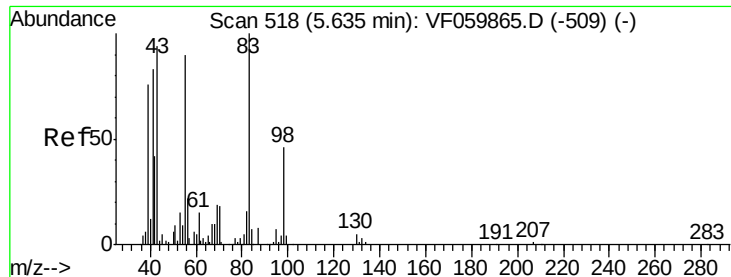
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#38
Carbon Tetrachloride
Concen: 20.50 ug/l m
RT: 4.17 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	76.5	114.7
121	34.6	23.8	35.8





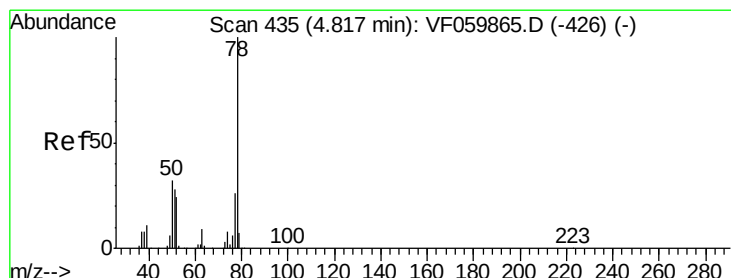
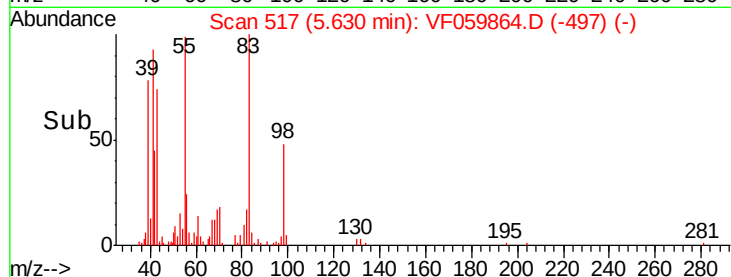
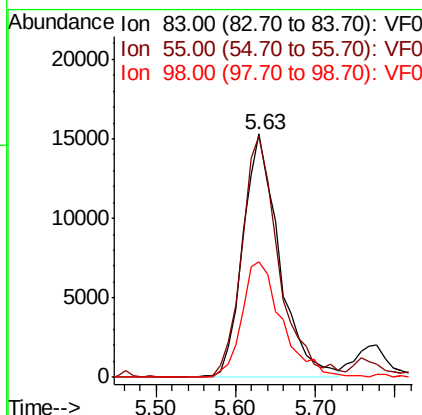
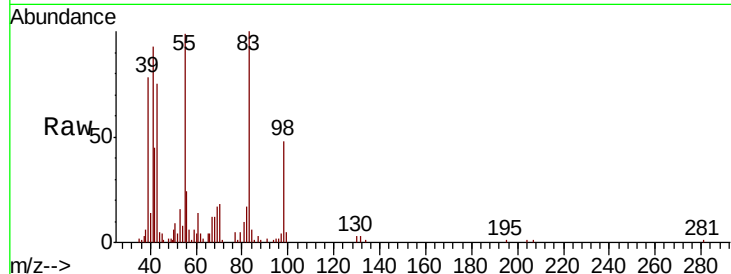
#39
Methylvlcyclohexane
Concen: 20.07 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	99.2	72.0	108.0
98	47.7	36.6	54.8

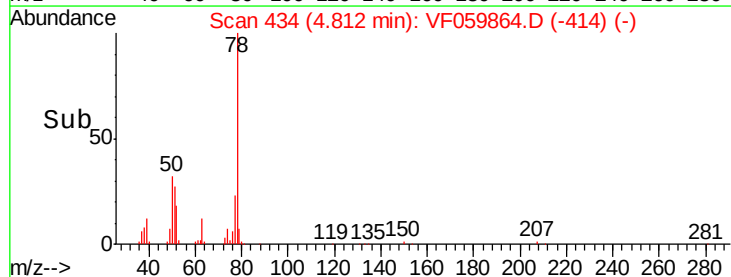
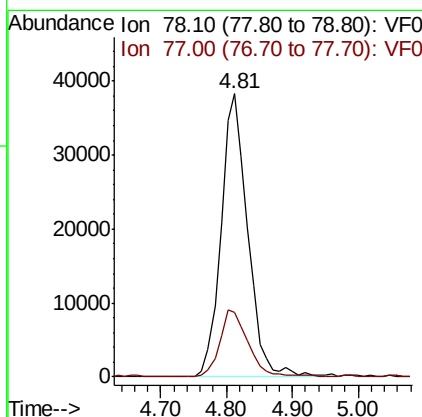
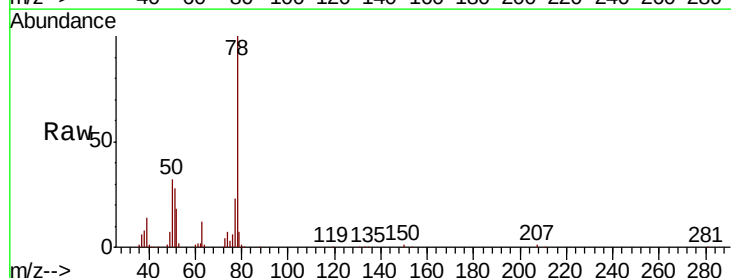
Manual Integrations
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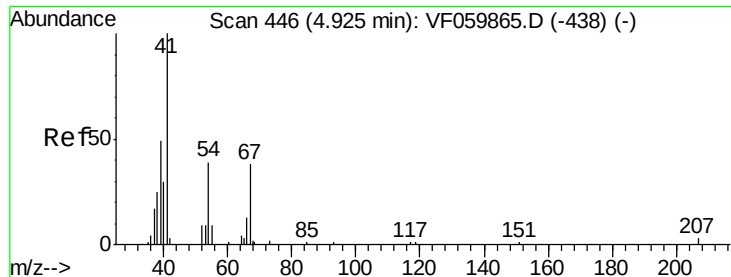
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#40
Benzene
Concen: 19.57 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	20.7	31.1





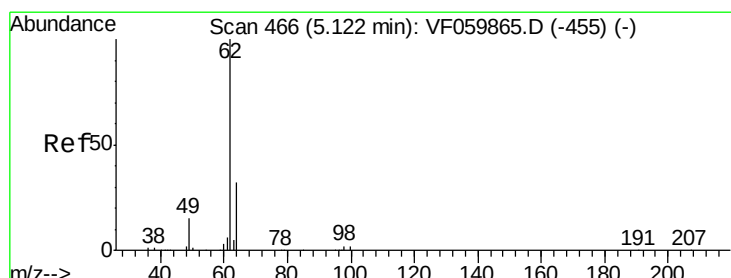
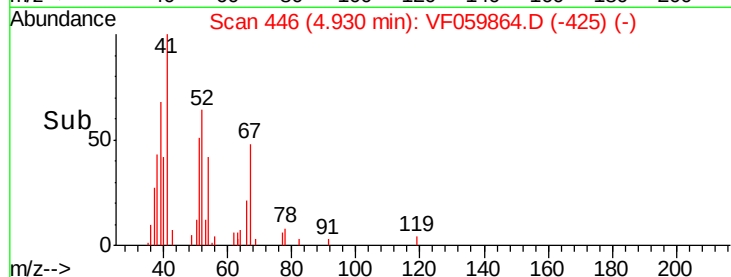
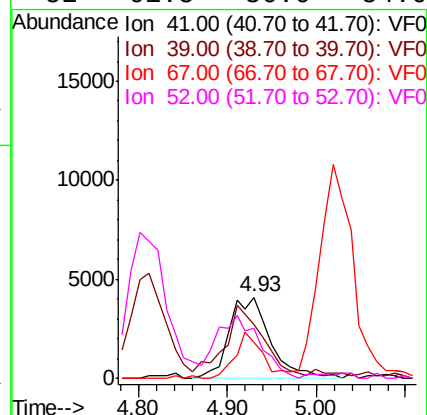
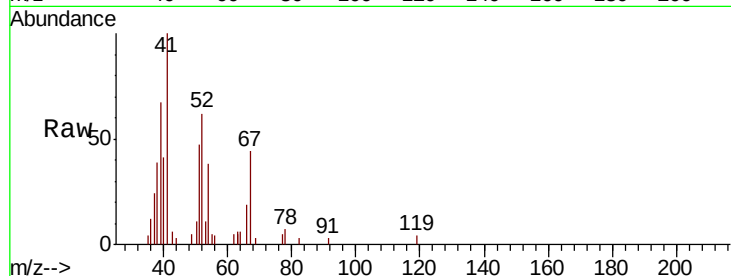
#41
Methacrylonitrile
Concen: 17.30 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.1	55.1	82.7
67	44.3	30.3	45.5
52	61.5	36.0	54.0

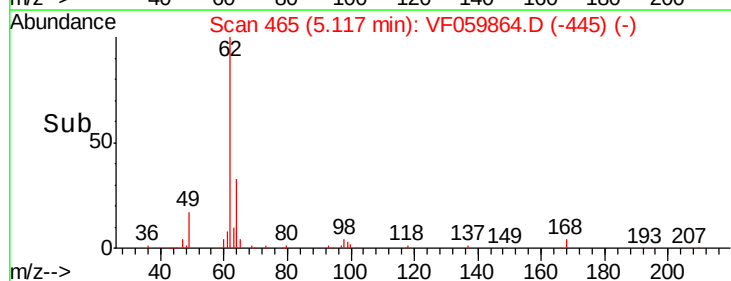
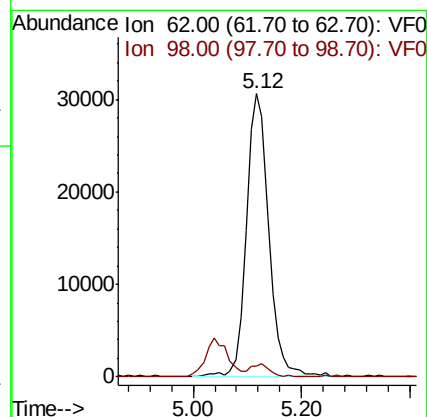
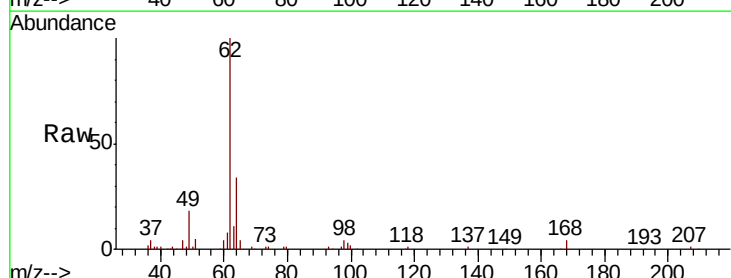
Manual Integrations
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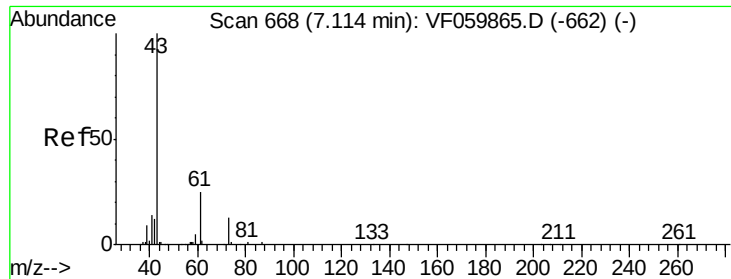
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#42
1,2-Dichloroethane
Concen: 22.28 ug/l
RT: 5.12 min Scan# 465
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
62	100		
98	3.9	0.0	7.6





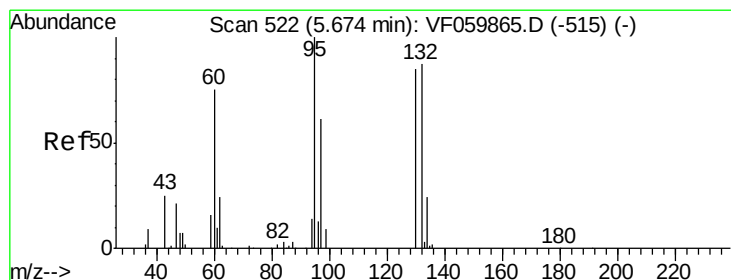
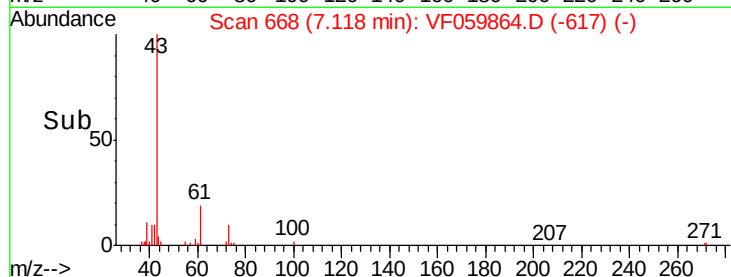
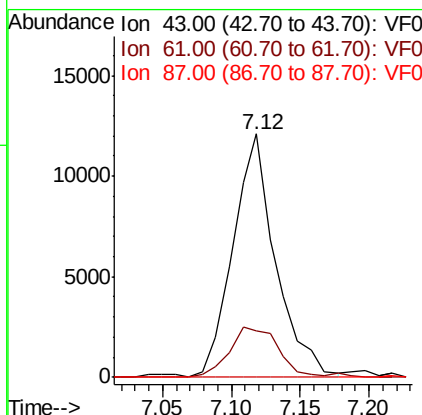
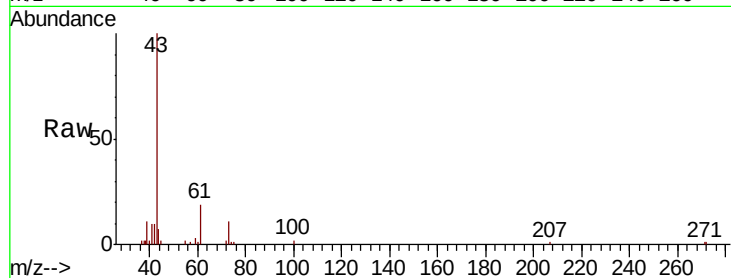
#43
Isopropyl Acetate
Concen: 16.39 ug/l
RT: 7.12 min Scan# 668
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.0	20.3	30.5#
87	0.0	0.7	1.1#

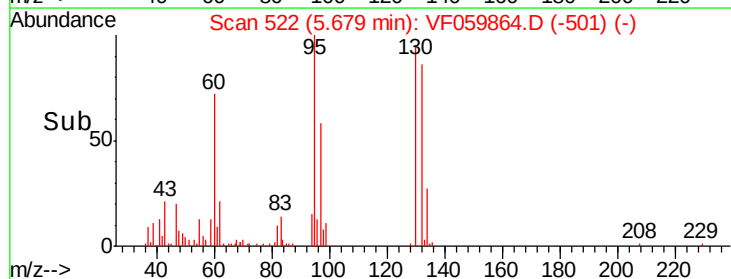
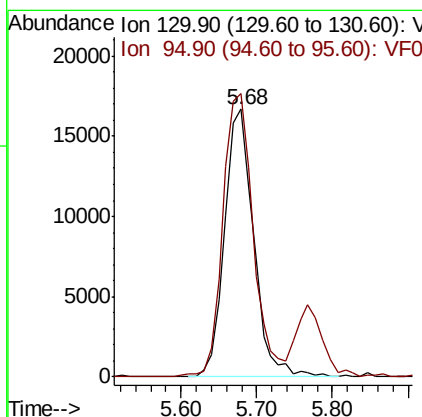
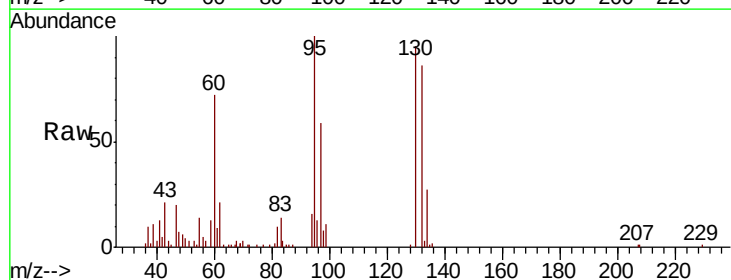
Manual Integrations
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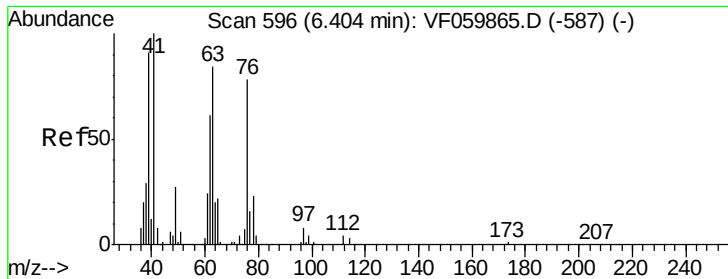
apatel
8/6/2018 10:25:54 AM



#44
Trichloroethene
Concen: 20.63 ug/l
RT: 5.68 min Scan# 522
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.8	0.0	236.8





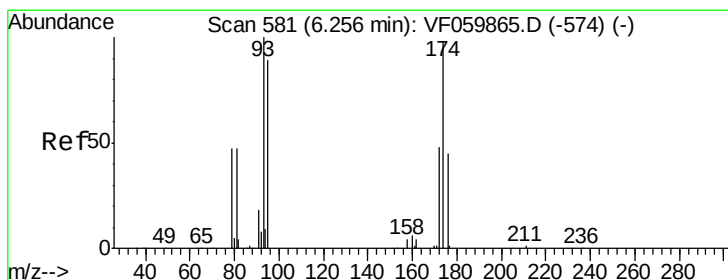
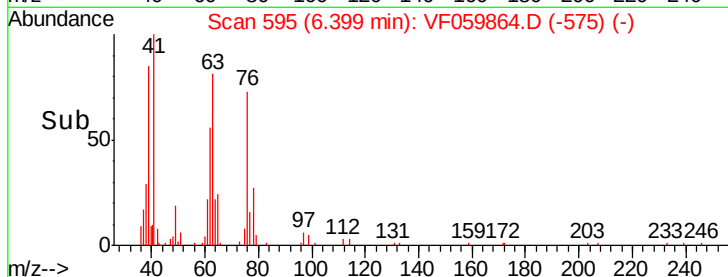
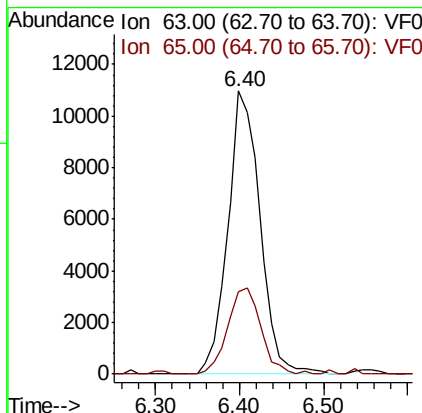
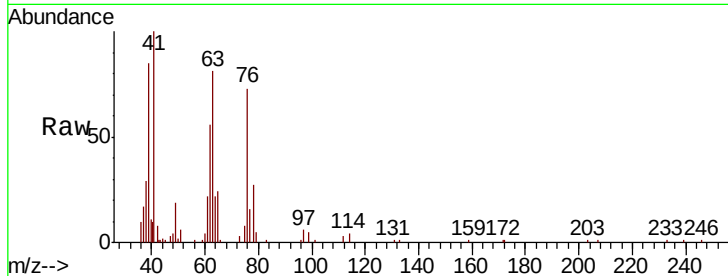
#45
 1,2-Dichloropropane
 Concen: 20.06 ug/l
 RT: 6.40 min Scan# 595
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.2	20.4	30.6

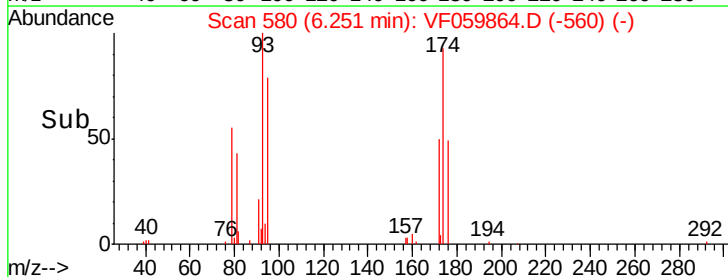
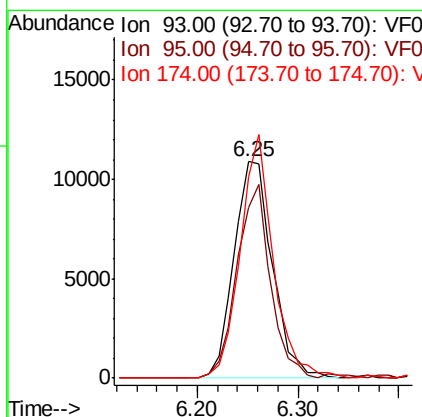
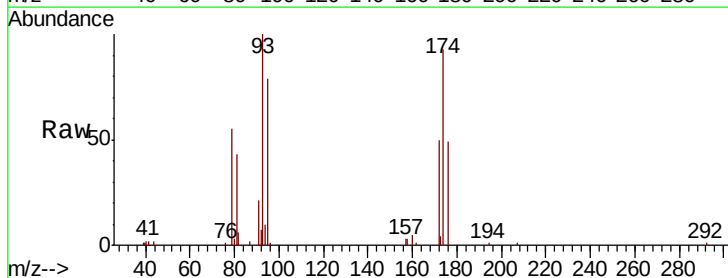
Manual Integrations
 APPROVED

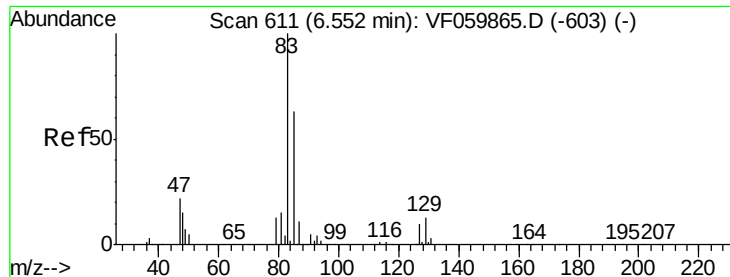
apatel
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#46
 Dibromomethane
 Concen: 20.88 ug/l
 RT: 6.25 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
93	100		
95	79.1	71.4	107.2
174	93.1	78.1	117.1





#47

Bromodichloromethane

Concen: 20.67 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

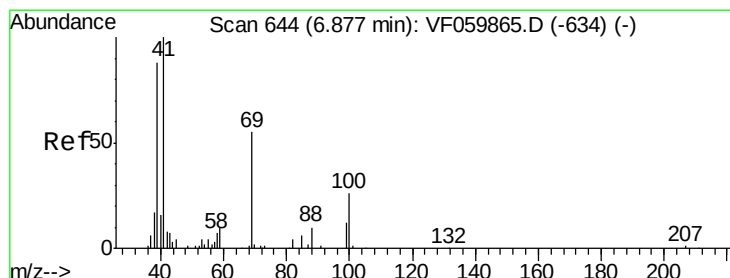
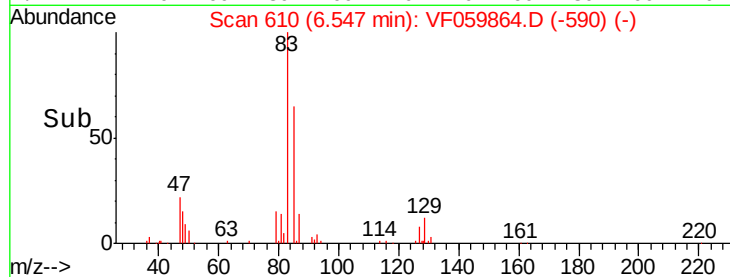
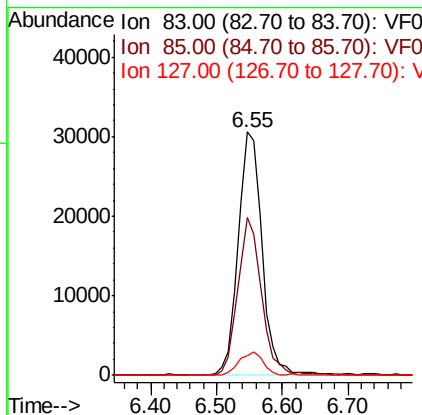
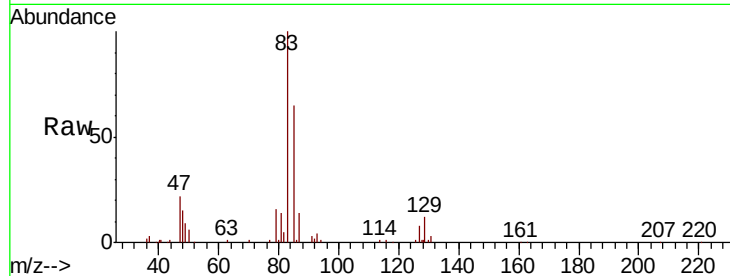
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	78472
Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.7	76.1
127	9.1	8.0	12.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.25 ug/l

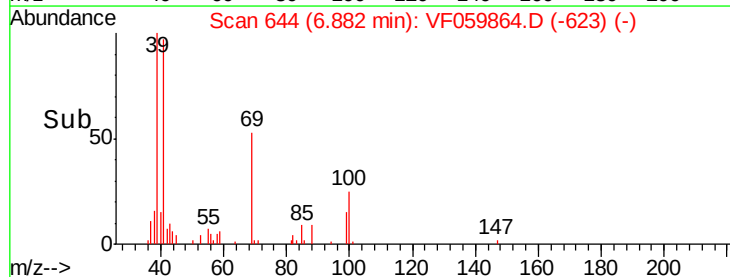
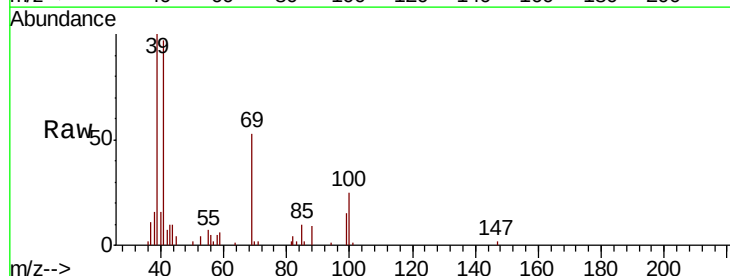
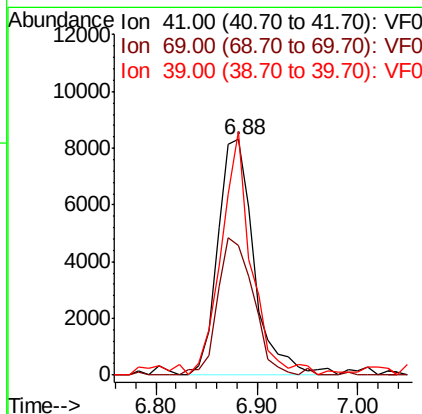
RT: 6.88 min Scan# 644

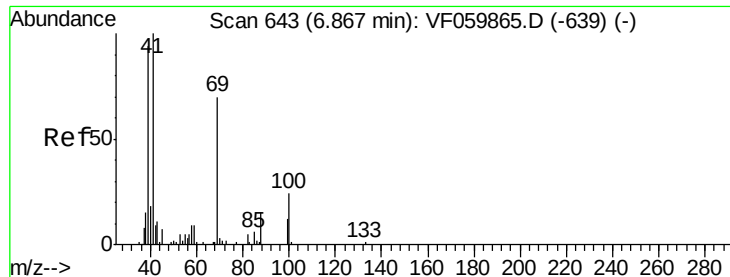
Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	41	Resp:	20775
Ion	Ratio	Lower	Upper
41	100		
69	55.2	44.4	66.6
39	103.2	70.6	106.0





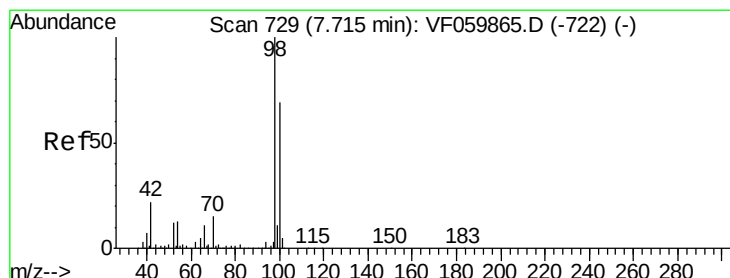
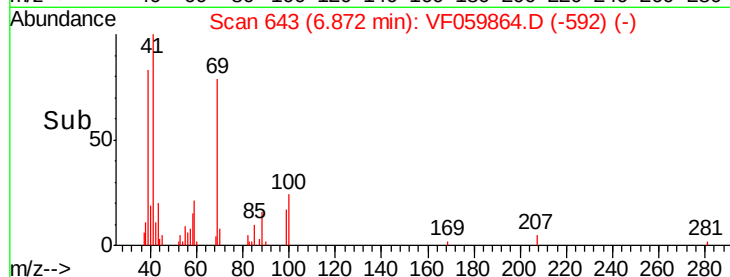
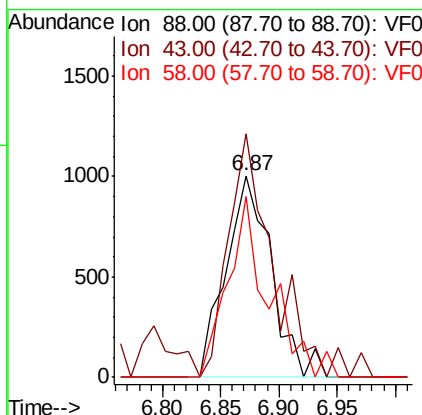
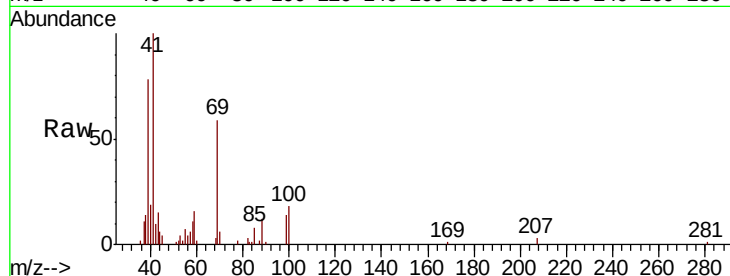
#49
1,4-Dioxane
Concen: 291.53 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	120.8	58.3	87.5#
58	89.6	49.4	74.2#

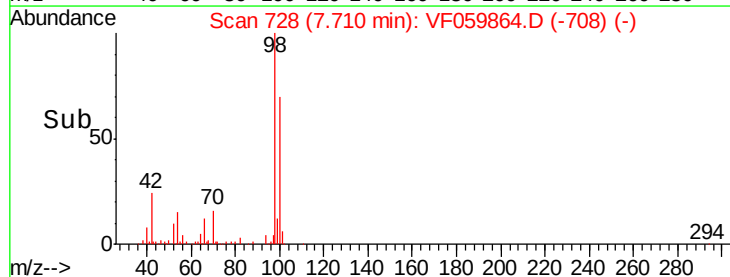
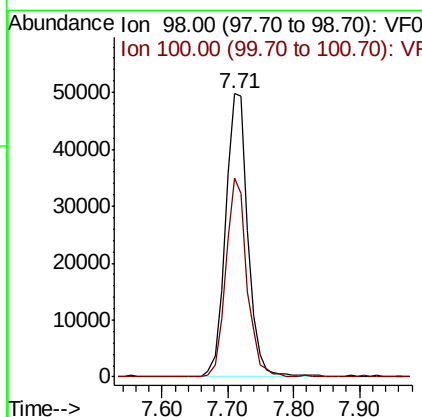
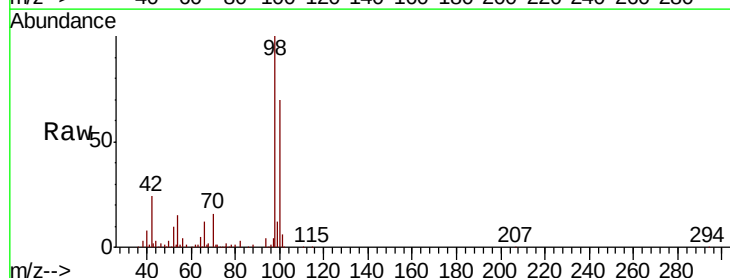
Manual Integrations
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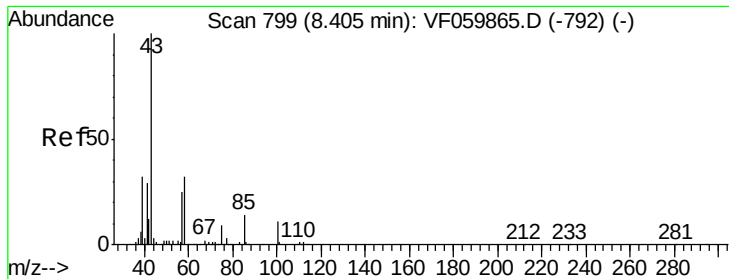
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#50
Toluene-d8
Concen: 18.24 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.5	55.0	82.6





#51

4-Methyl-2-Pentanone

Concen: 116.79 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tot Ion: 43 Resp: 147787

Ion Ratio Lower Upper

43 100

58 34.8 25.4 38.0

Instrument :

MSVOA_F

ClientSampleId :

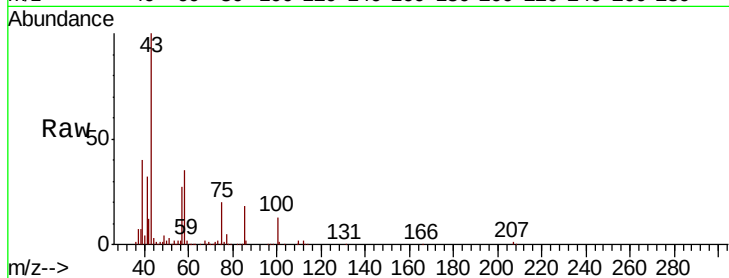
VSTDIC020

Manual Integrations

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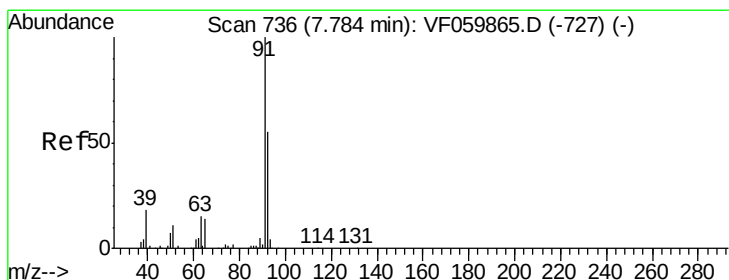
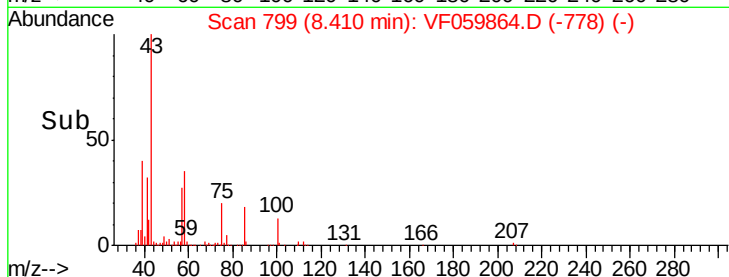
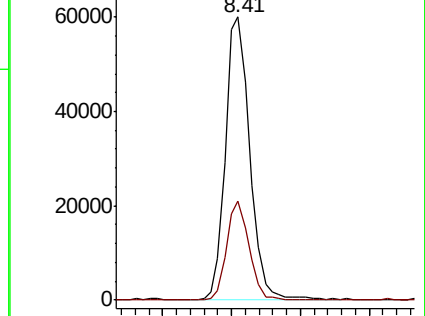
apatel

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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: 19.51 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF059864.D

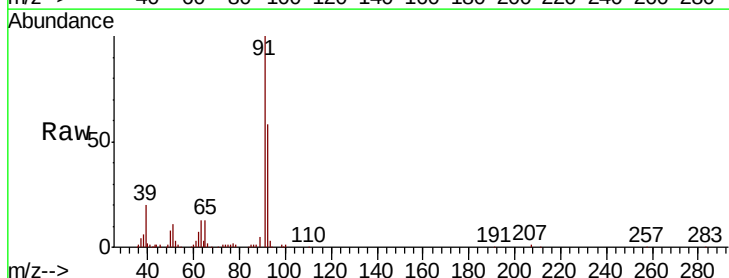
Acq: 4 Aug 2018 4:16

Tgt Ion: 92 Resp: 80166

Ion Ratio Lower Upper

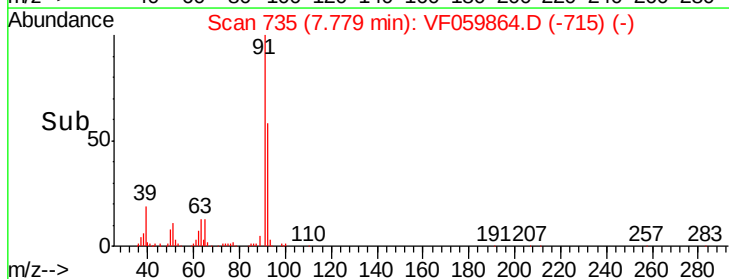
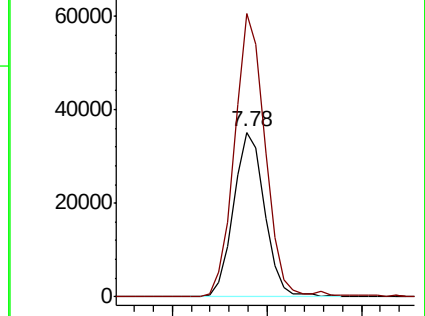
92 100

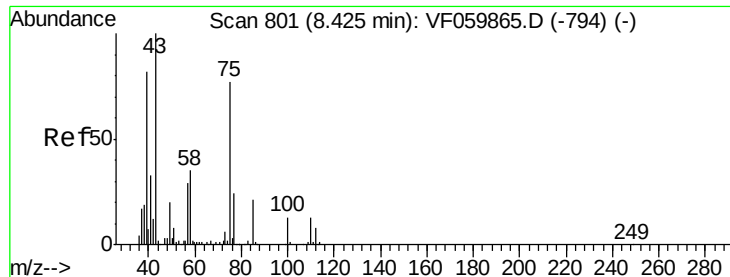
91 172.1 145.7 218.5



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: 20.02 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 64597

Ion Ratio Lower Upper

75 100

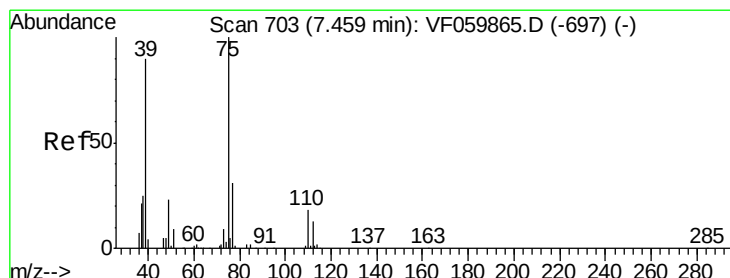
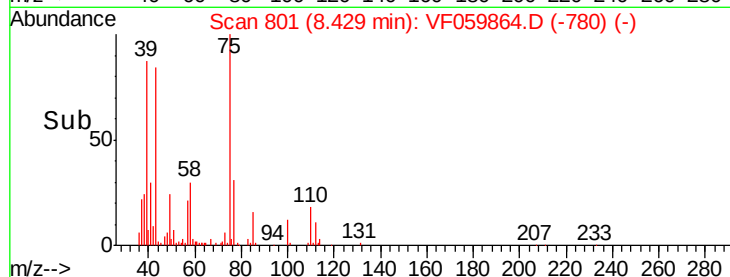
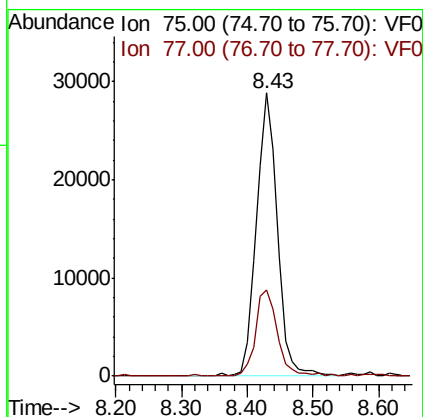
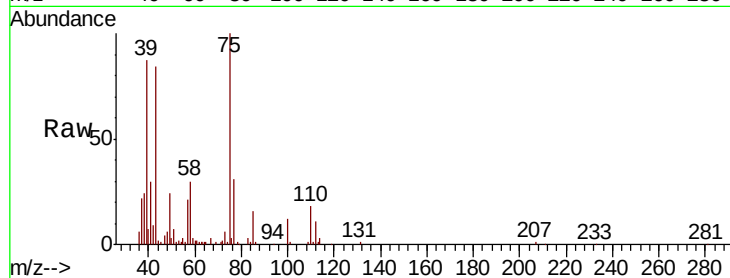
77 30.7 24.5 36.7

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#54

cis-1,3-Dichloropropene

Concen: 20.17 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

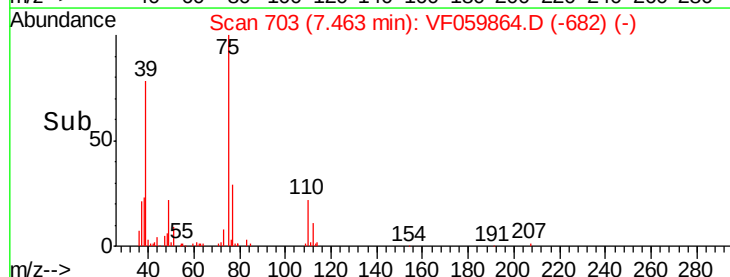
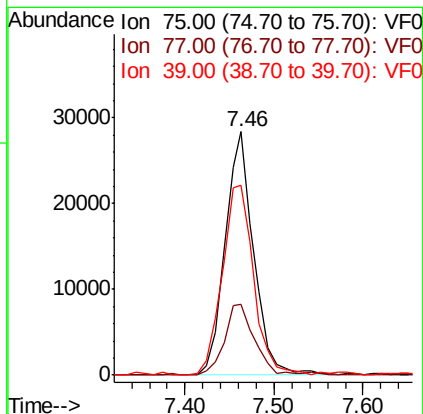
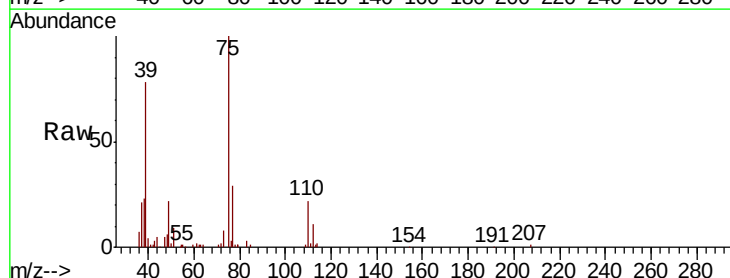
Tgt Ion: 75 Resp: 63742

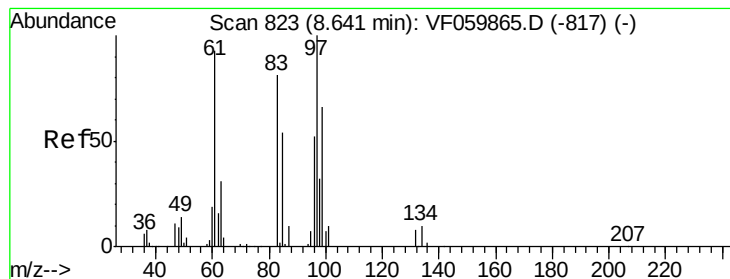
Ion Ratio Lower Upper

75 100

77 29.2 24.7 37.1

39 77.8 72.0 108.0





#55

1,1,2-Trichloroethane

Concen: 19.46 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

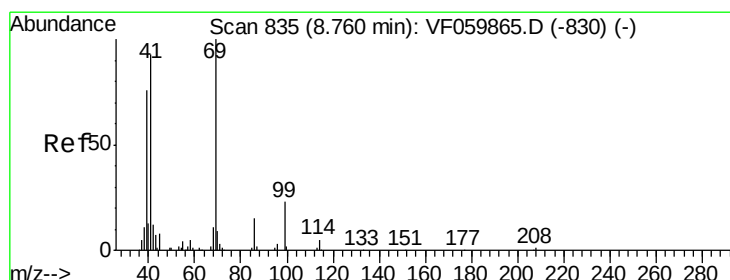
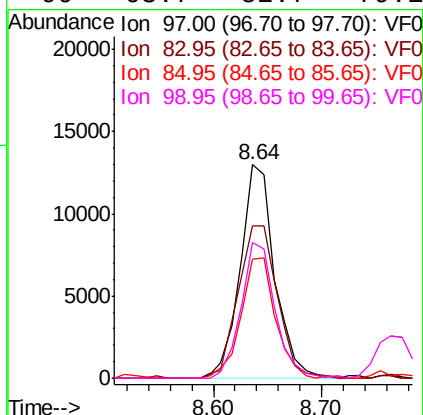
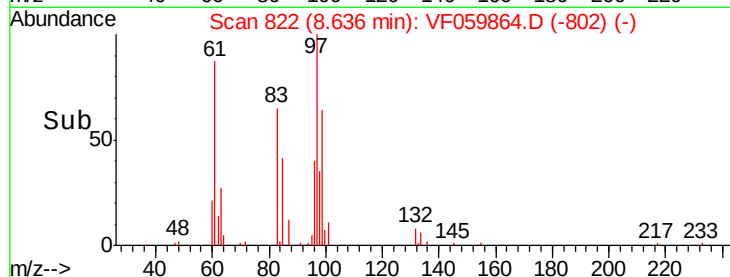
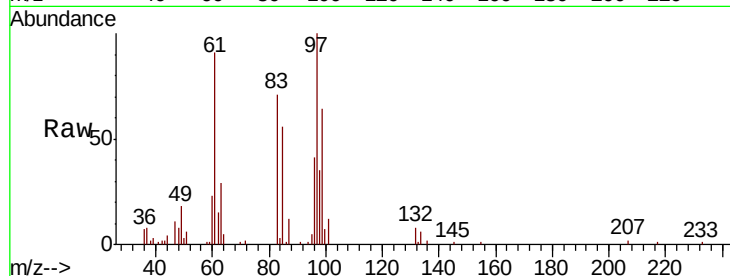
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	28647
Ion Ratio	Lower	Upper	
97	100		
83	71.1	64.4	96.6
85	55.7	43.1	64.7
99	63.7	52.7	79.1

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#56

Ethyl methacrylate

Concen: 17.34 ug/l

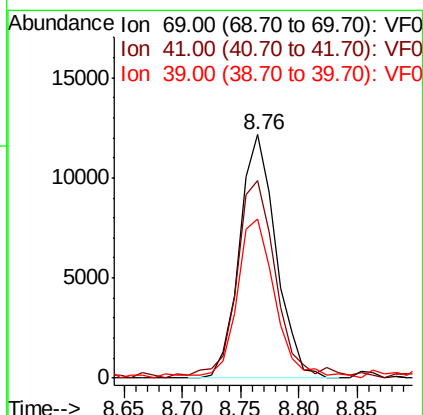
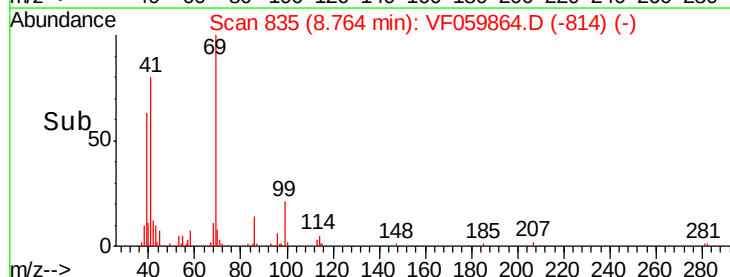
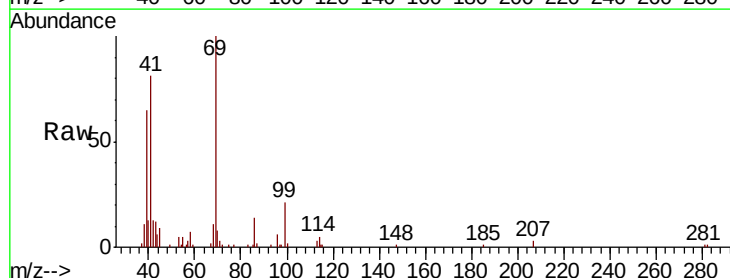
RT: 8.76 min Scan# 835

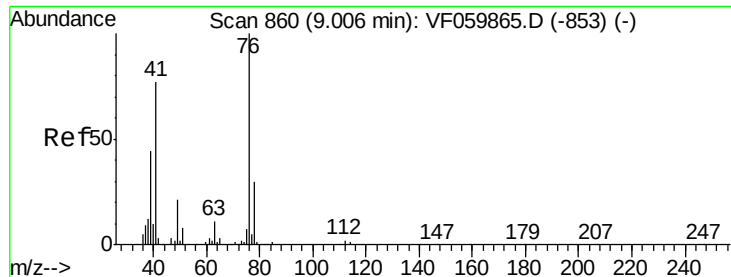
Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	69	Resp:	26412
Ion Ratio	Lower	Upper	
69	100		
41	81.0	74.7	112.1
39	65.2	61.1	91.7





#57

1,3-Dichloropropane

Concen: 19.49 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 49745

Ion Ratio Lower Upper

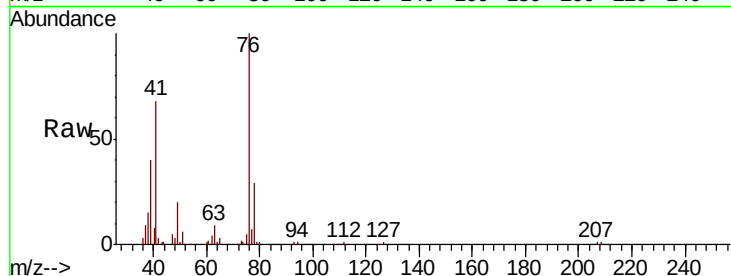
76 100

78 29.0 24.2 36.2

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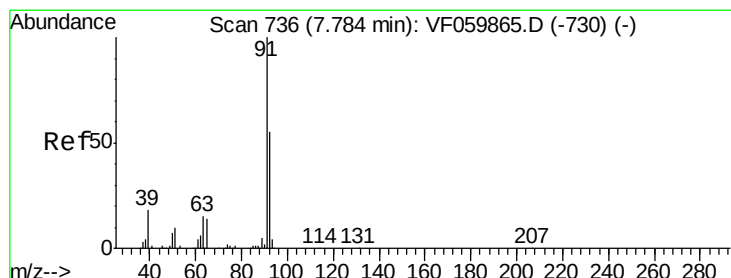
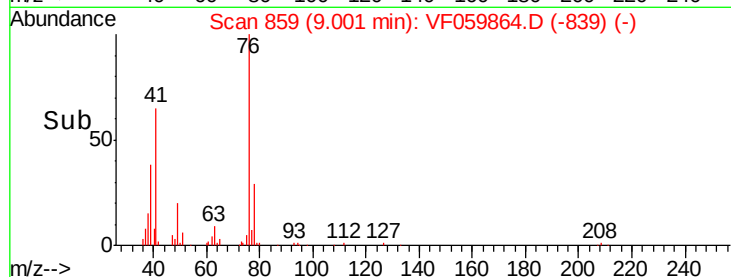
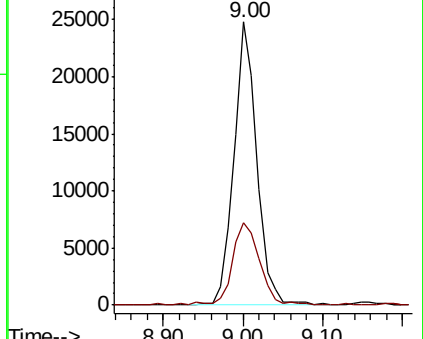
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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 100.66 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF059864.D

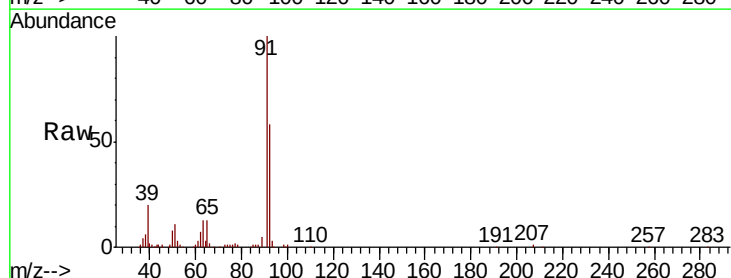
Acq: 4 Aug 2018 4:16

Tgt Ion: 63 Resp: 18653

Ion Ratio Lower Upper

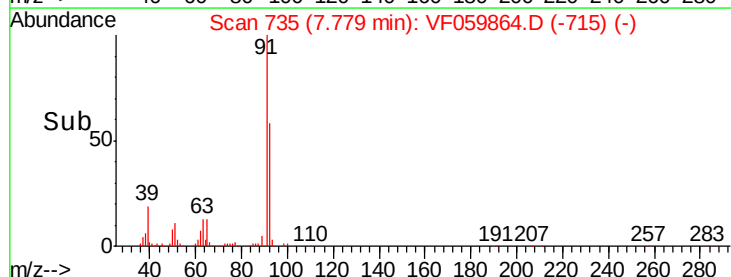
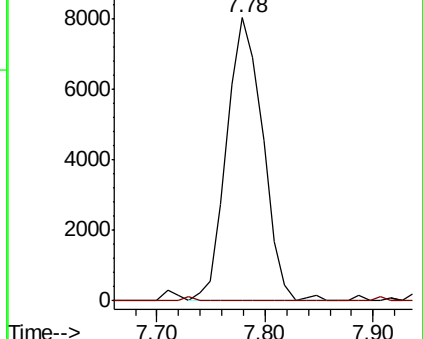
63 100

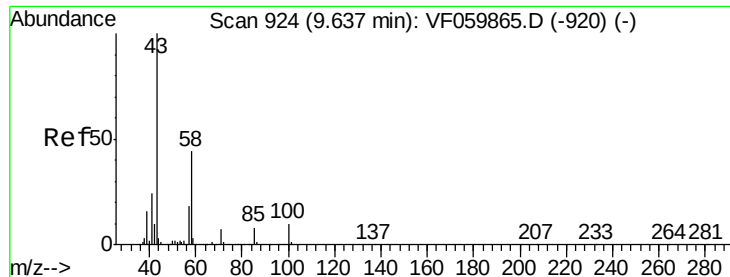
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





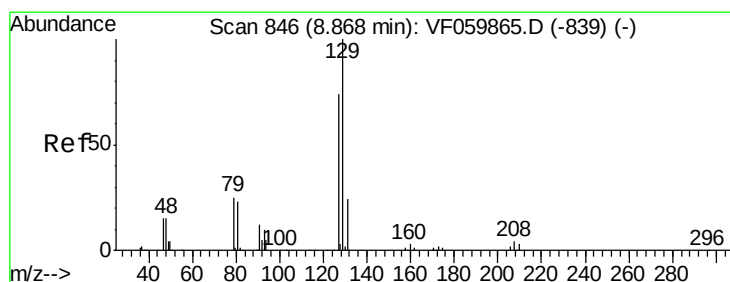
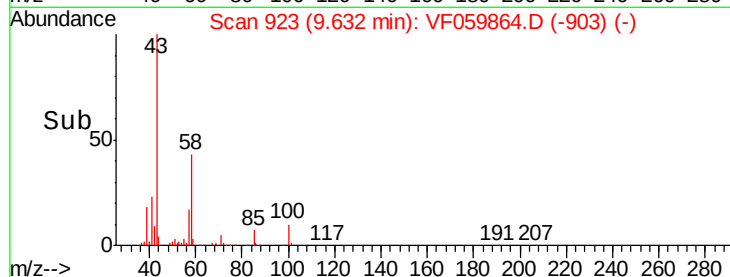
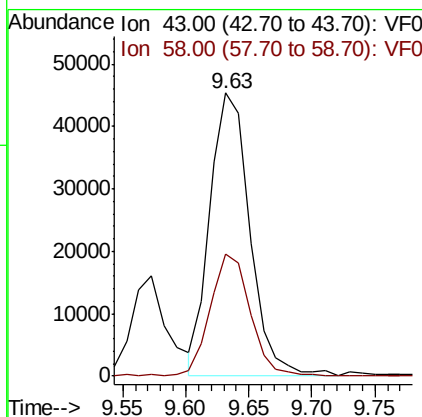
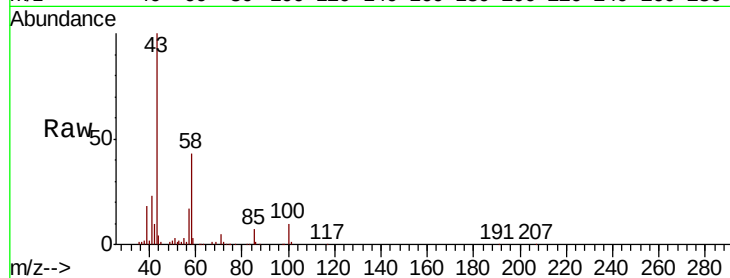
#59
2-Hexanone
Concen: 99.58 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.9	20.8	62.2

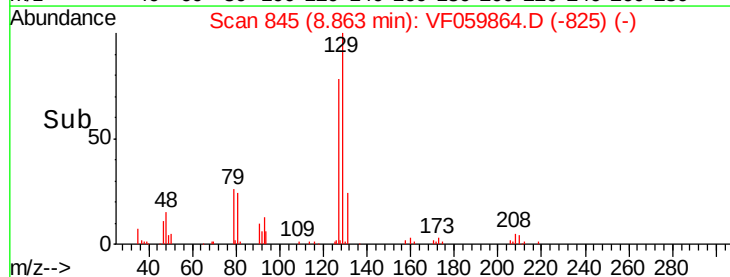
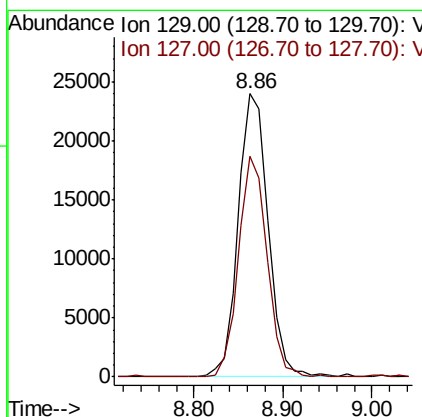
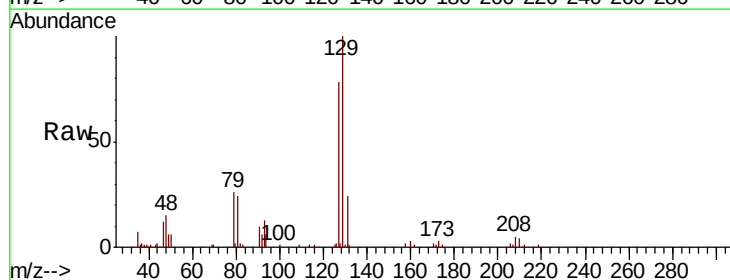
Manual Integrations
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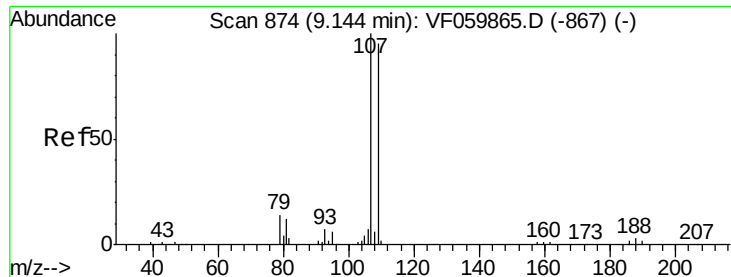
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#60
Dibromochloromethane
Concen: 21.15 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	36.9	110.7





#61

1,2-Dibromoethane

Concen: 20.22 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 35338

Ion Ratio Lower Upper

107 100

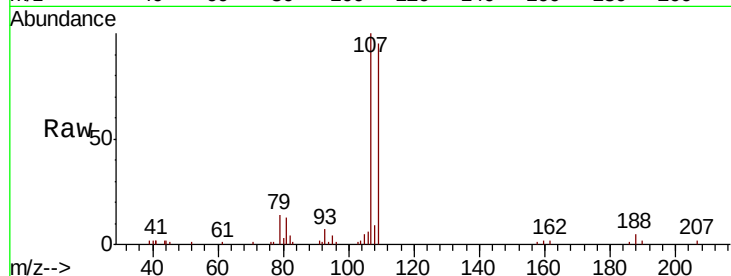
109 95.0 75.8 113.8

Manual Integrations

APPROVED

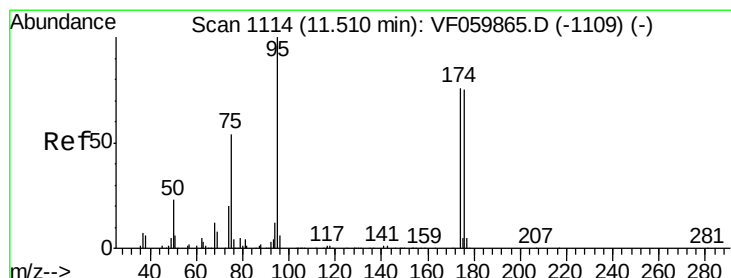
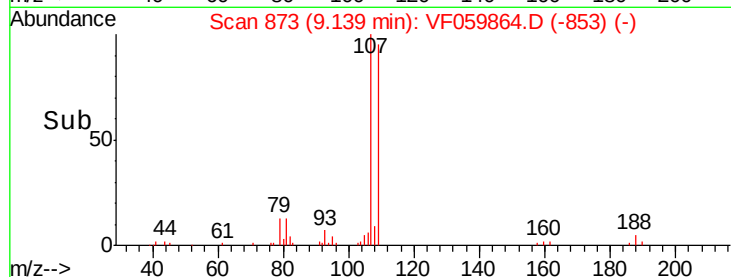
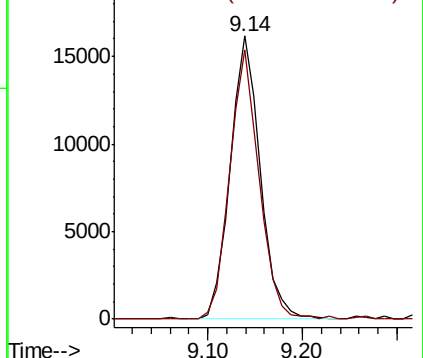
apatel

8/6/2018 10:25:54 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 18.41 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

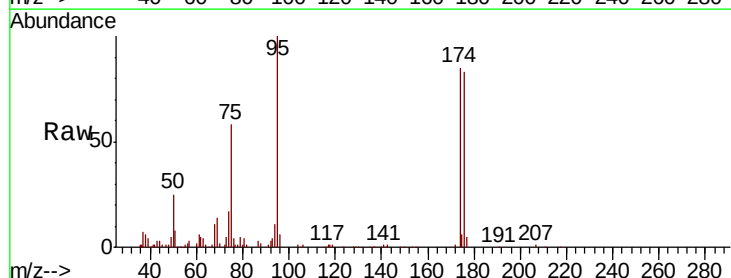
Tgt Ion: 95 Resp: 66022

Ion Ratio Lower Upper

95 100

174 84.5 0.0 151.6

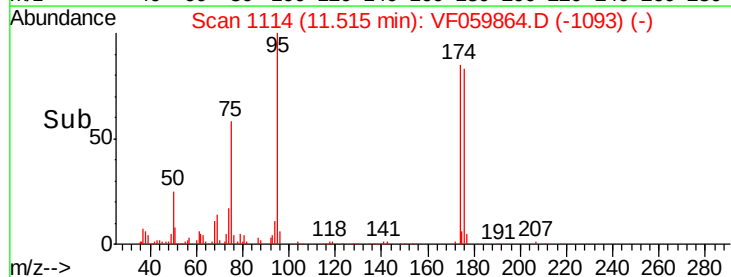
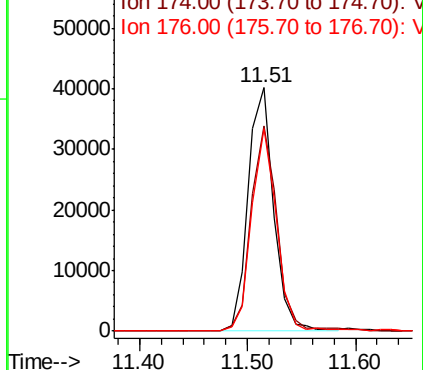
176 83.3 0.0 149.8

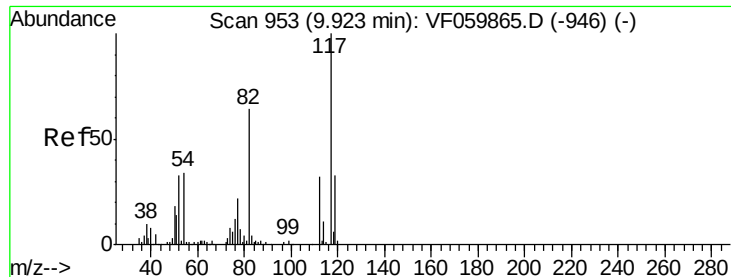


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





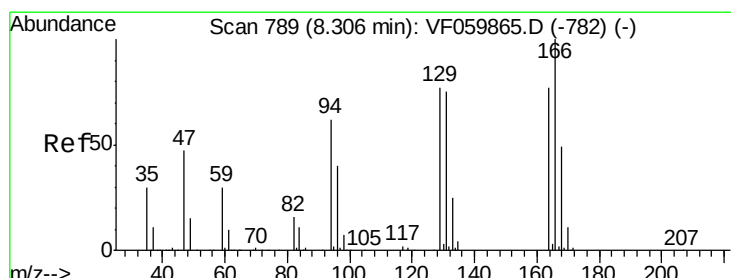
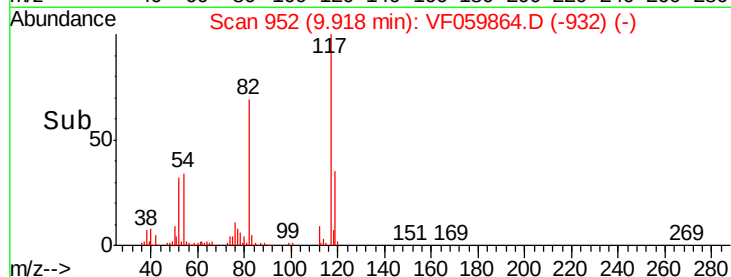
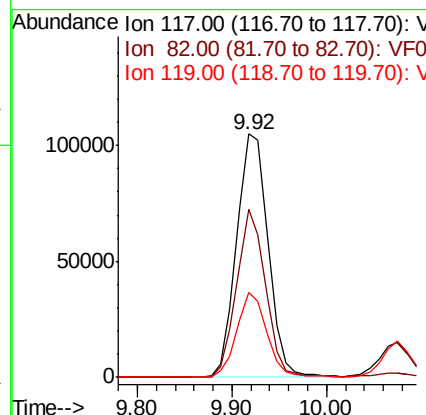
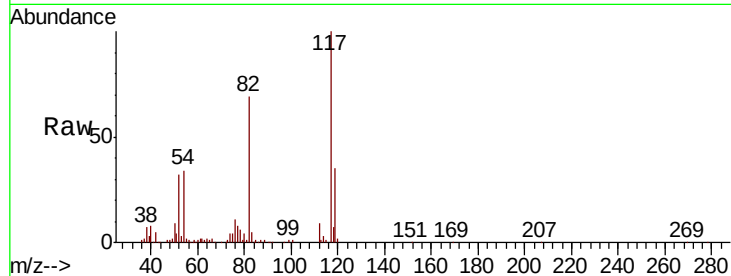
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	243681		
82	68.8	51.3	76.9	
119	34.9	26.4	39.6	

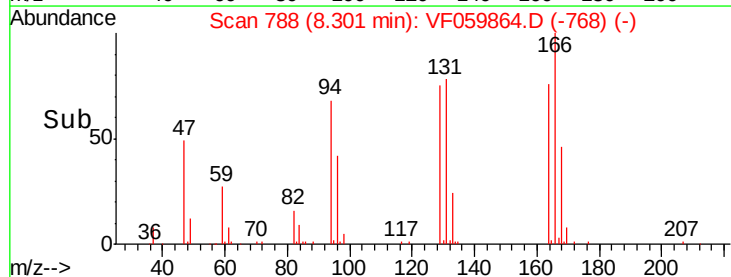
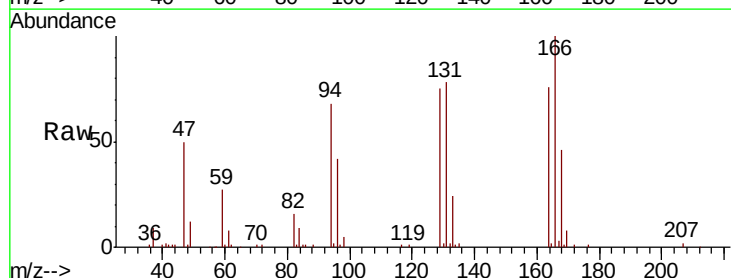
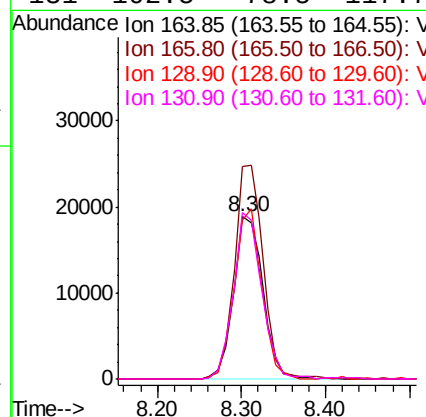
Manual Integrations
APPROVED

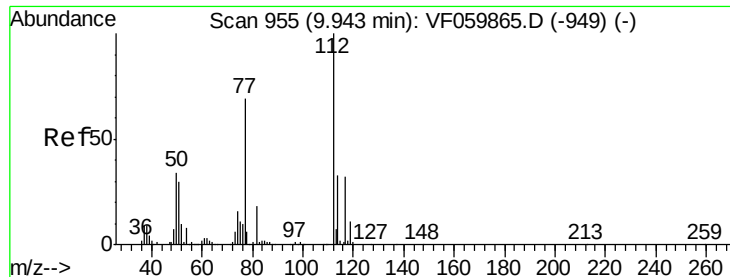
apatel
8/6/2018 10:25:54 AM



#64
Tetrachloroethene
Concen: 22.99 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	45683		
166	131.2	104.4	156.6	
129	98.2	80.3	120.5	
131	102.5	78.5	117.7	





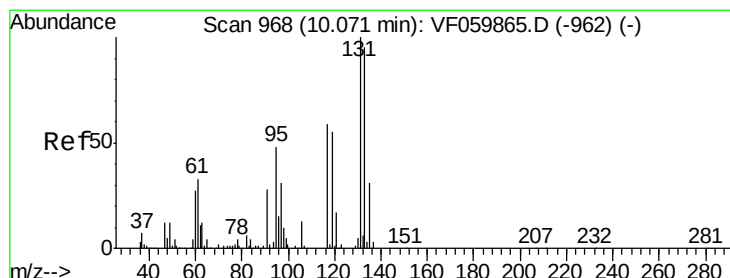
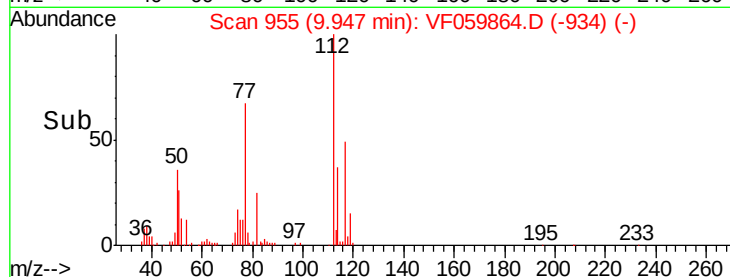
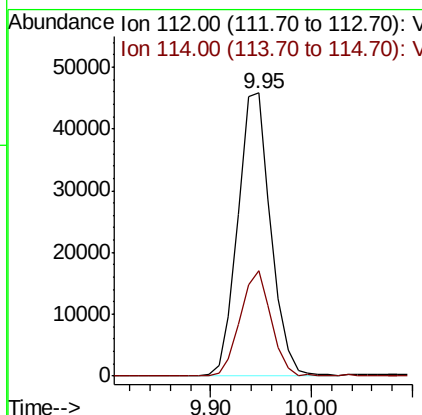
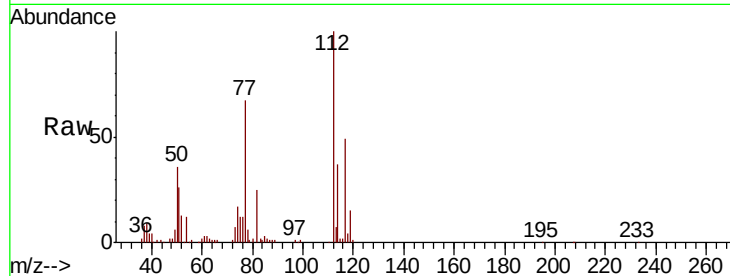
#65
Chlorobenzene
Concen: 20.89 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	37.2	26.4	39.6

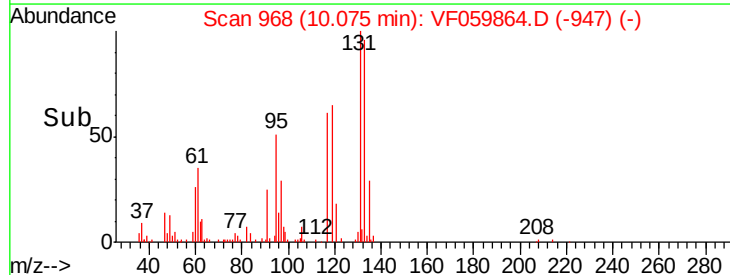
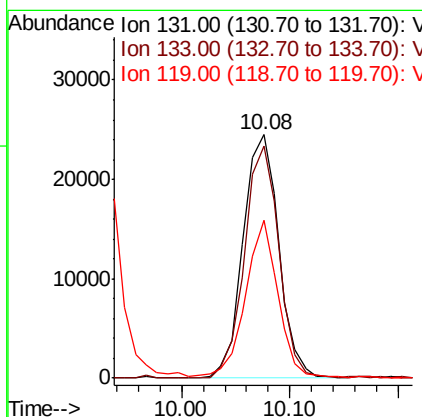
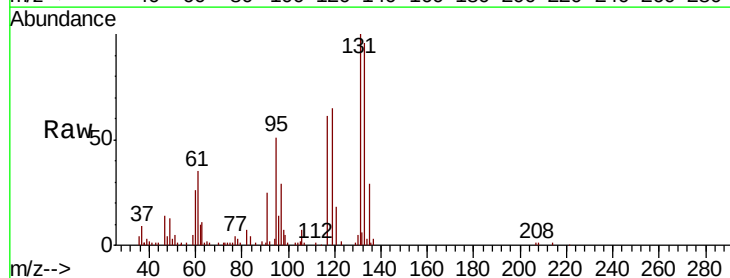
Manual Integrations
APPROVED

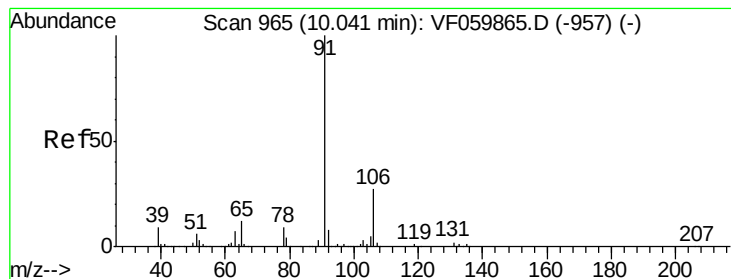
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 24.15 ug/l
RT: 10.08 min Scan# 968
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.4	142.2
119	64.6	27.7	83.1





#67

Ethyl Benzene

Concen: 22.48 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 194883

Ion Ratio Lower Upper

91 100

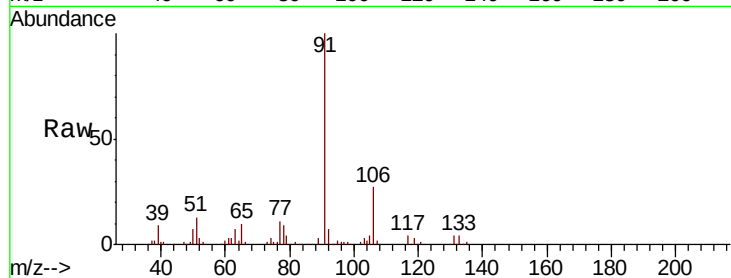
106 27.1 21.5 32.3

Manual Integrations

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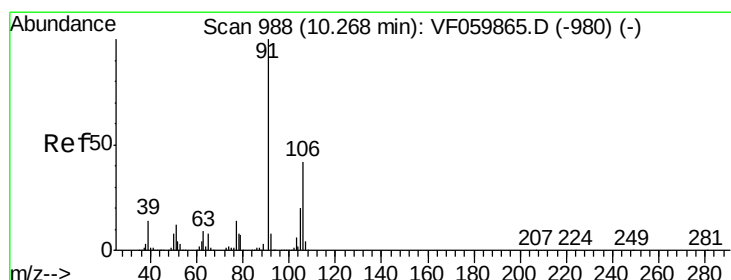
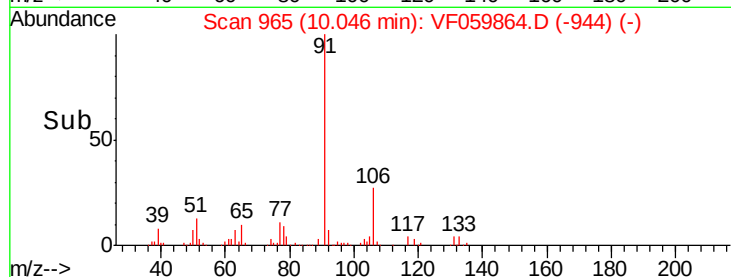
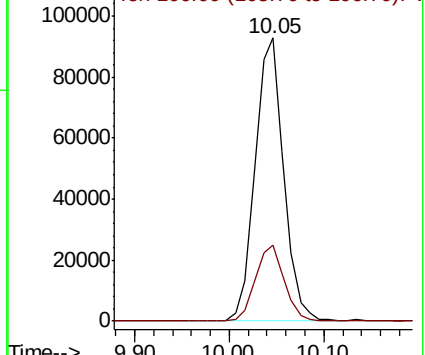
apatel

8/6/2018 10:25:54 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 44.99 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF059864.D

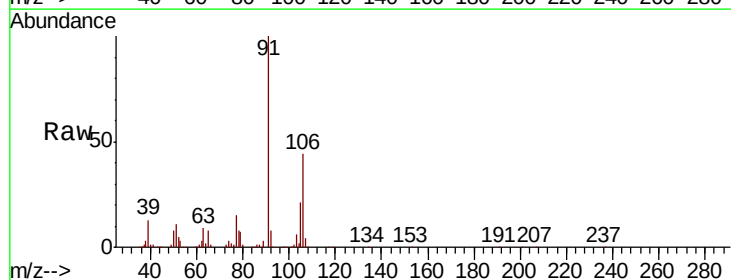
Acq: 4 Aug 2018 4:16

Tgt Ion:106 Resp: 136669

Ion Ratio Lower Upper

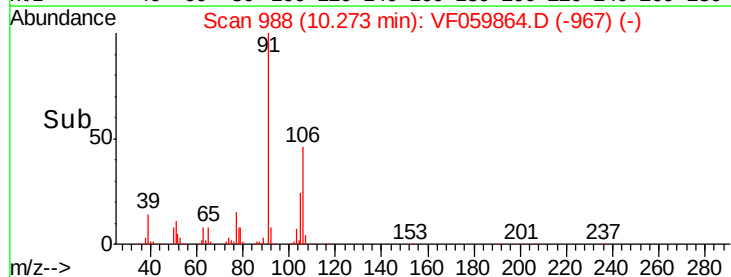
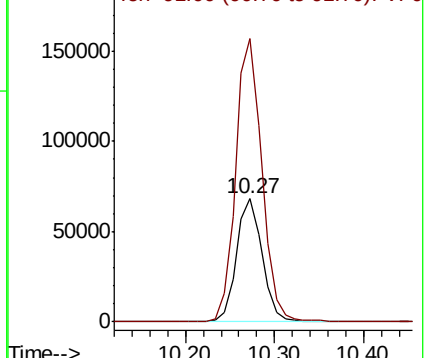
106 100

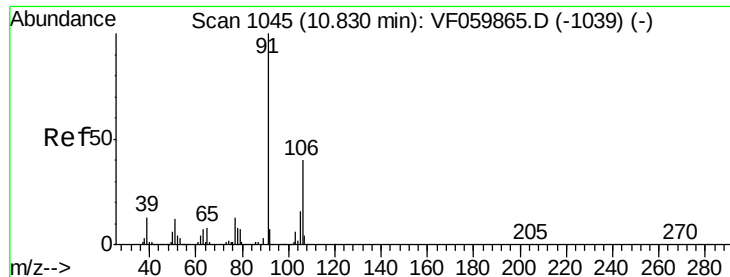
91 229.7 192.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





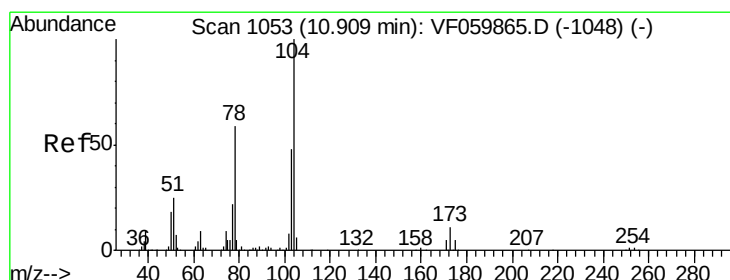
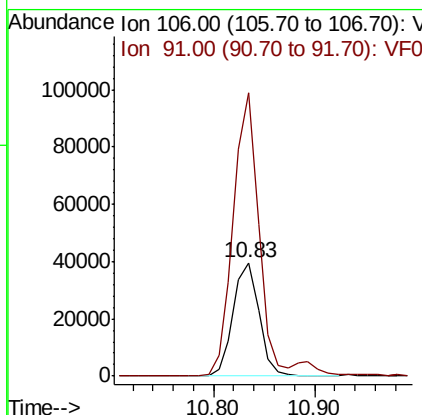
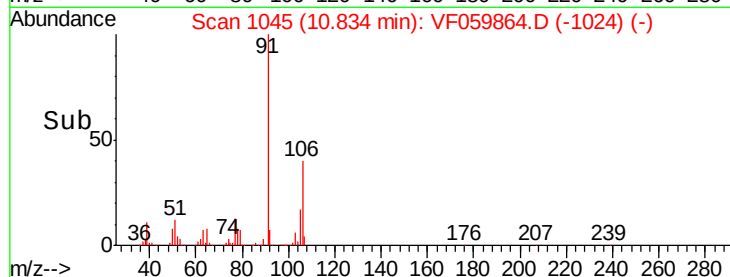
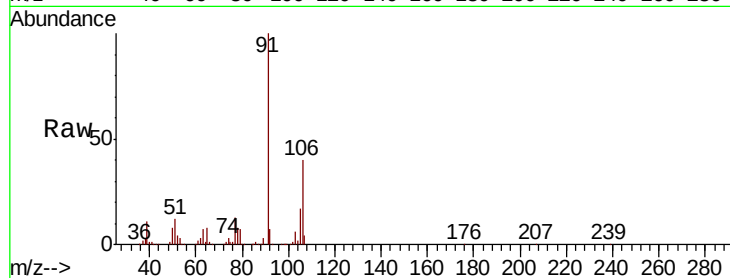
#69
o-Xylene
Concen: 22.34 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	249.9	125.4	376.2

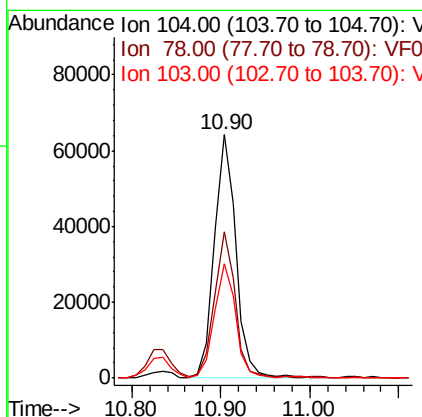
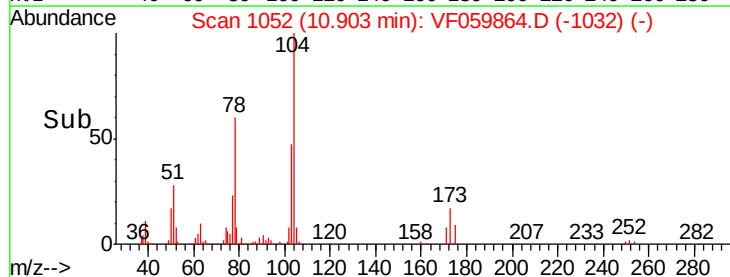
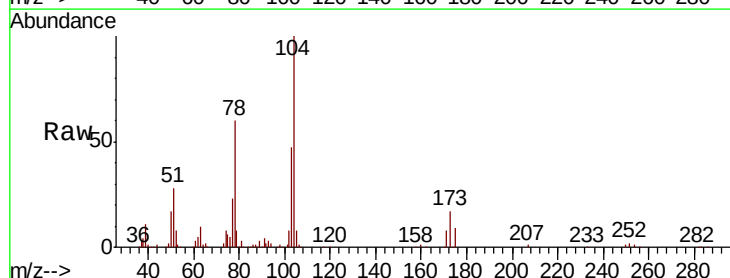
Manual Integrations
APPROVED

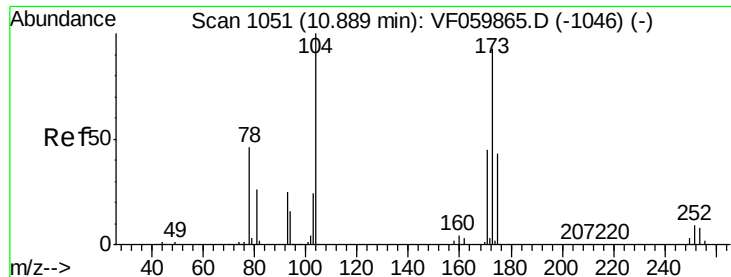
apatel
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#70
Styrene
Concen: 22.62 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
104	100		
78	60.3	47.3	70.9
103	47.1	39.0	58.4





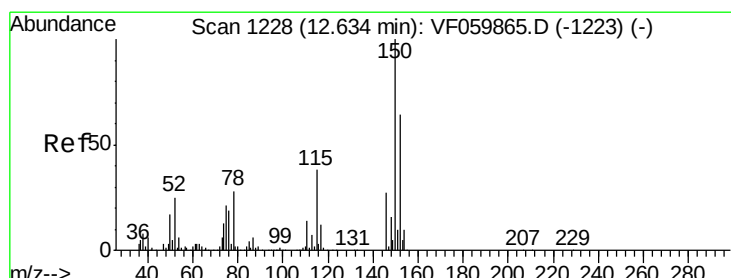
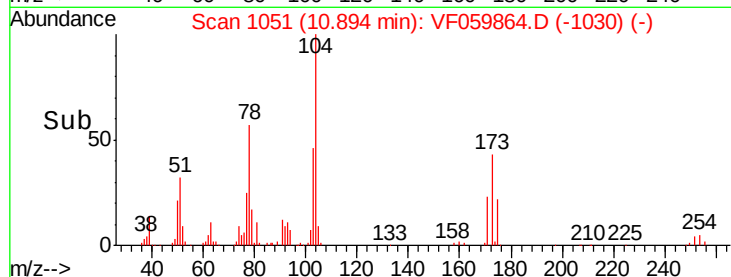
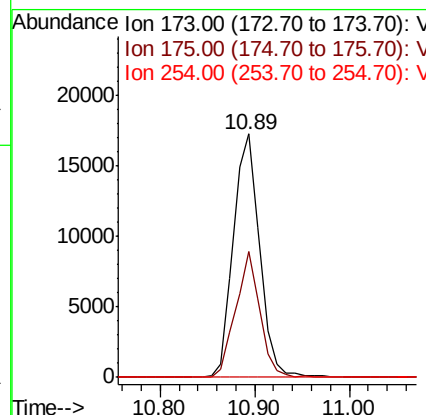
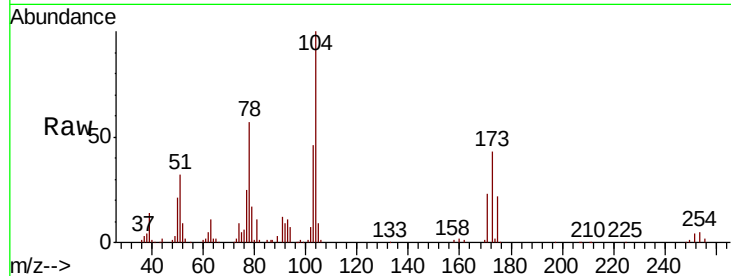
#71
Bromoform
Concen: 22.10 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.6	23.4	70.2
254	0.0	0.0	0.0

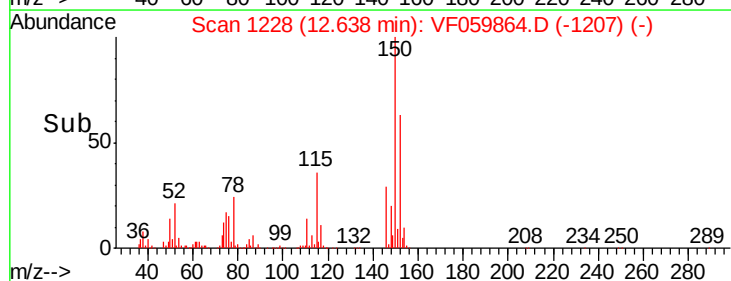
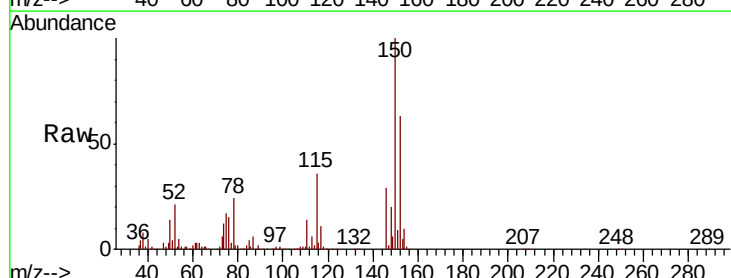
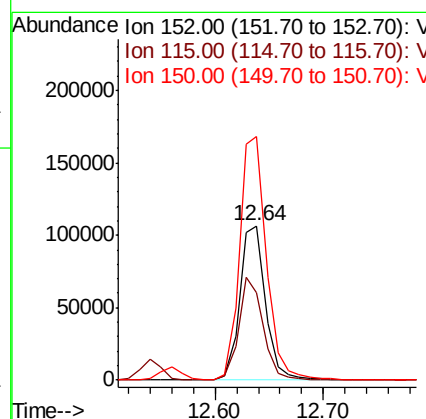
Manual Integrations
APPROVED

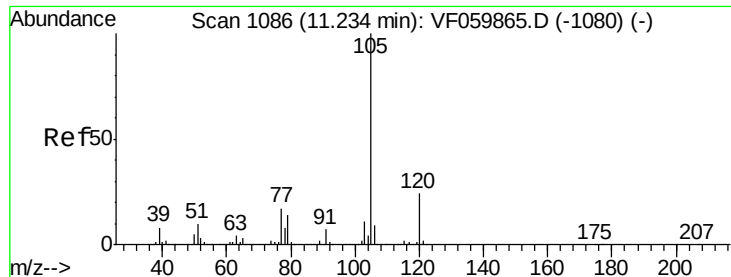
apatel
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	29.8	89.4
150	157.7	0.0	315.6





#73

Isopropylbenzene

Concen: 20.37 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 241075

Ion Ratio Lower Upper

105 100

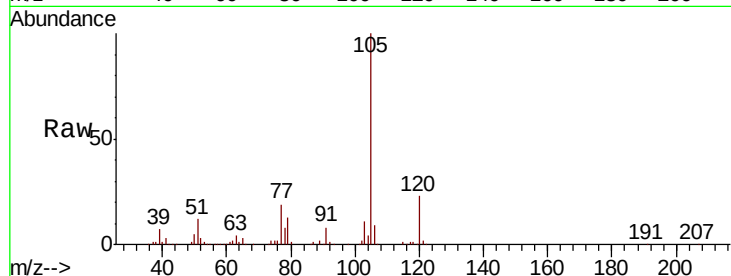
120 23.4 12.1 36.3

Manual Integrations

APPROVED

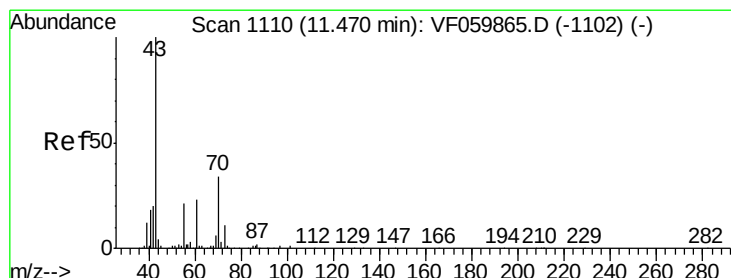
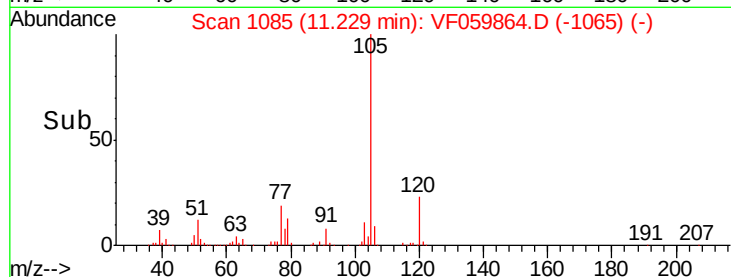
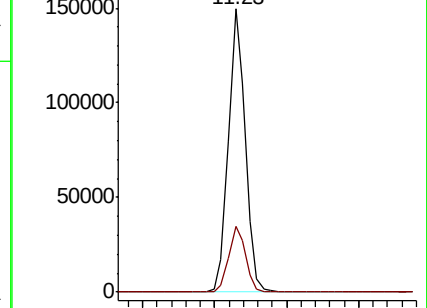
apatel

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.29 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion: 43 Resp: 50470

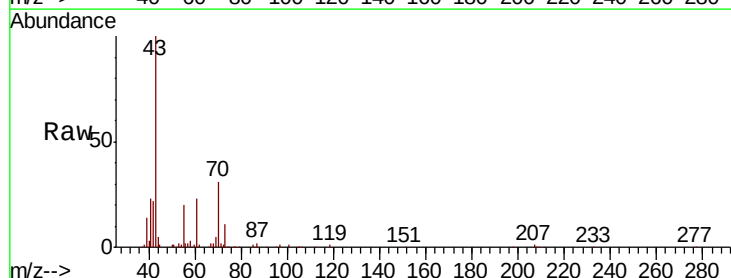
Ion Ratio Lower Upper

43 100

70 30.8 27.5 41.3

55 19.5 16.6 25.0

61 23.2 18.2 27.4

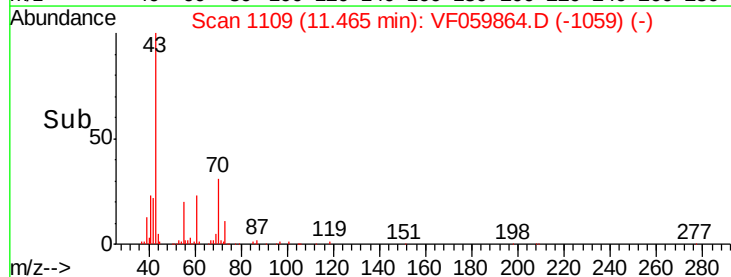
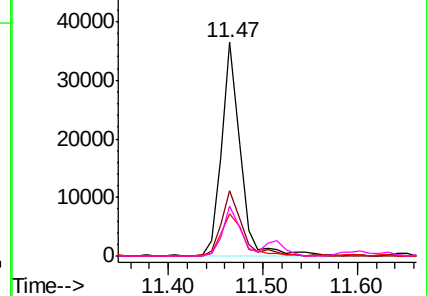


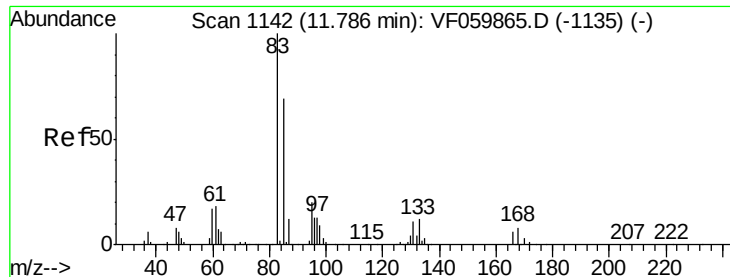
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.15 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 41938
Ion Ratio Lower Upper

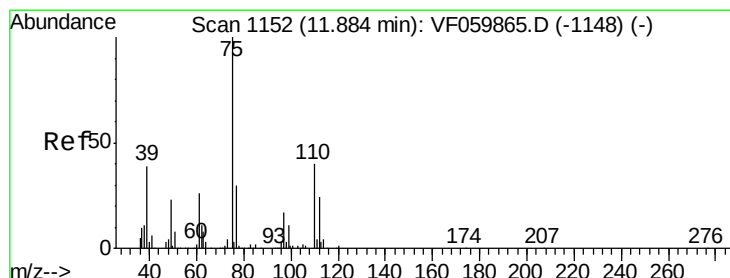
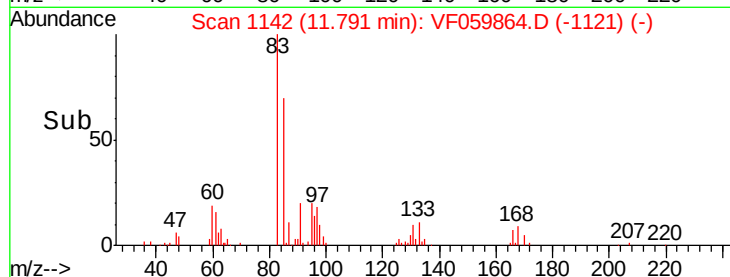
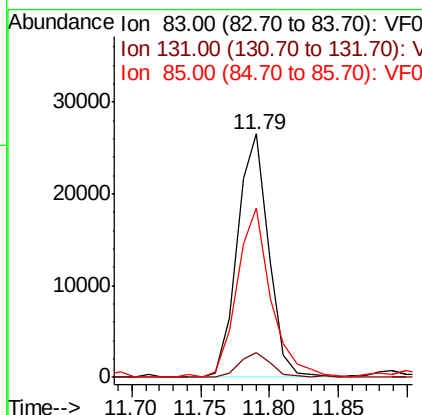
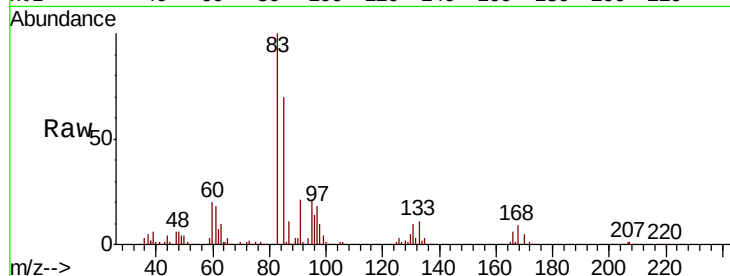
83 100

131 10.3 5.3 15.9

85 69.6 34.5 103.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.11 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

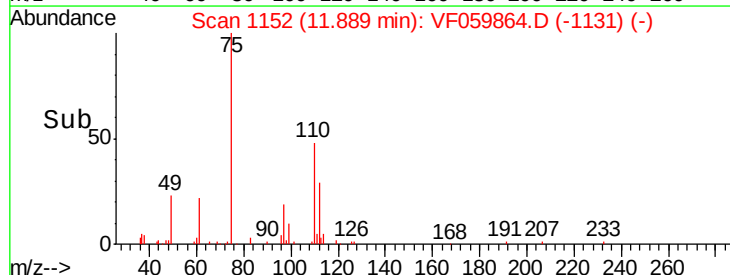
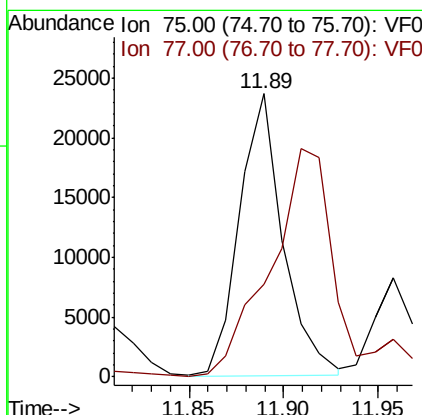
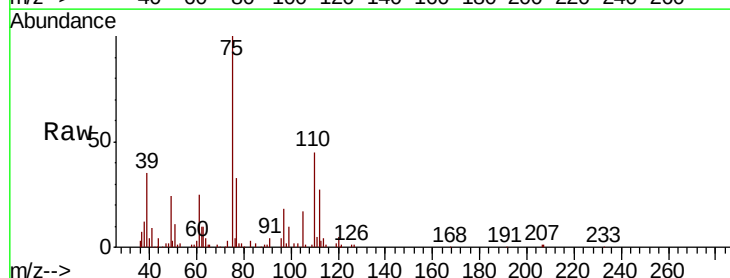
Lab File: VF059864.D

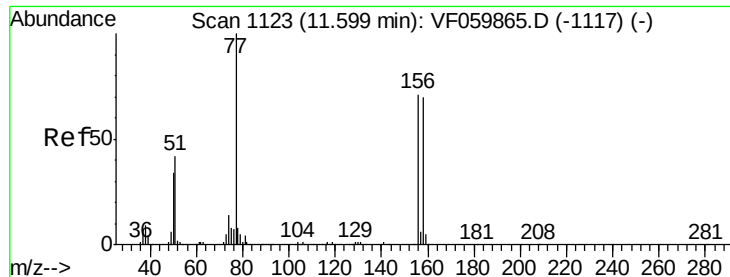
Acq: 4 Aug 2018 4:16

Tgt Ion: 75 Resp: 37751
Ion Ratio Lower Upper

75 100

77 32.7 15.4 46.2





#77

Bromobenzene

Concen: 20.19 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 62170

Ion Ratio Lower Upper

156 100

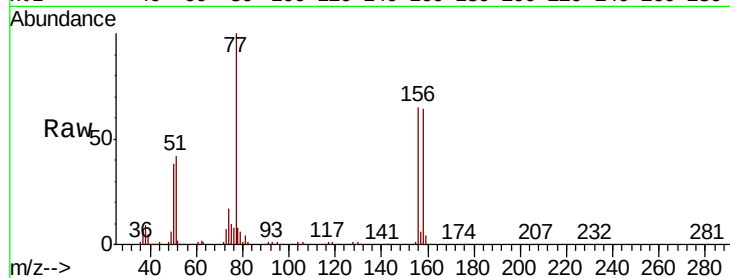
77 152.9 70.2 210.6

158 98.0 49.2 147.6

Manual Integrations
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apatel

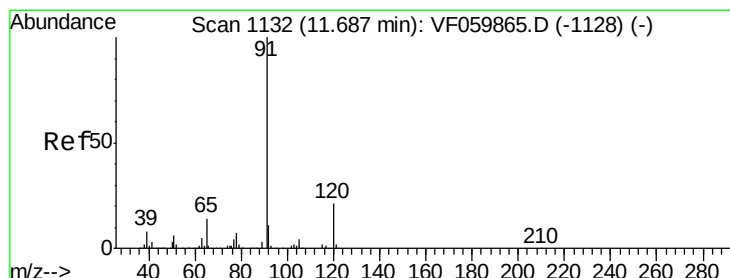
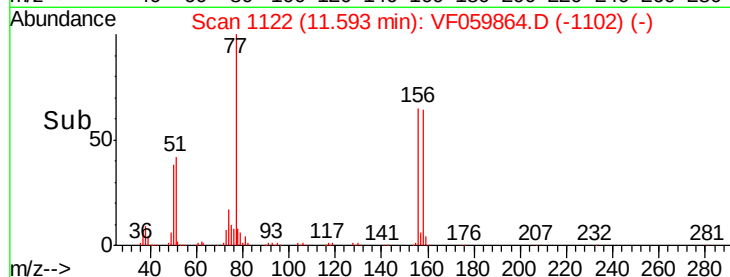
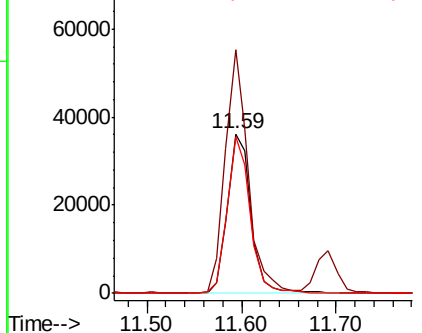
8/6/2018 10:25:54 AM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 20.67 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF059864.D

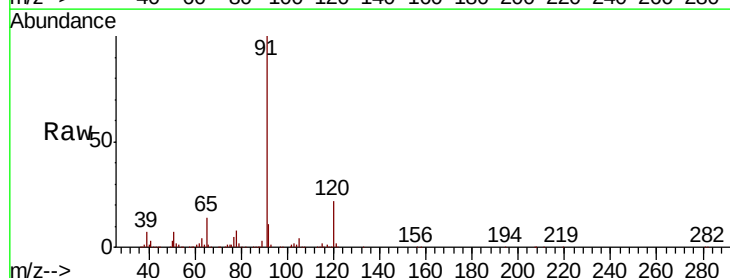
Acq: 4 Aug 2018 4:16

Tgt Ion: 91 Resp: 285151

Ion Ratio Lower Upper

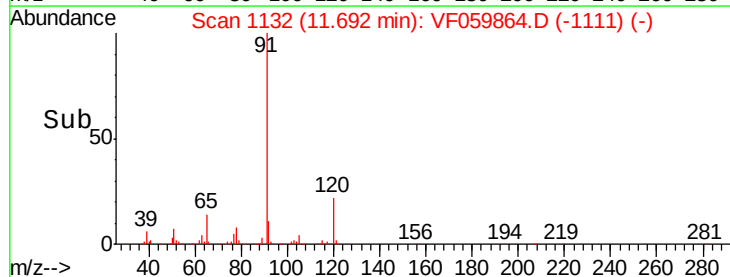
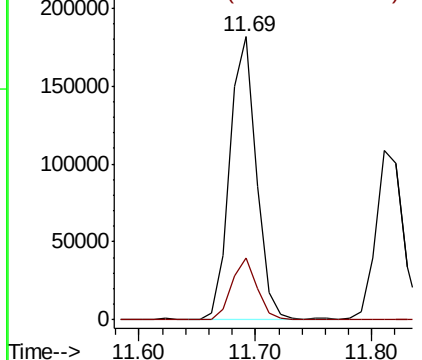
91 100

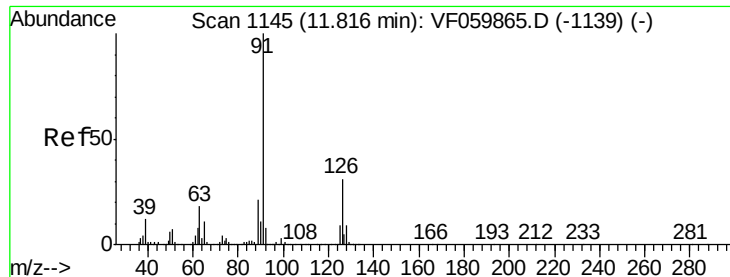
120 21.7 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.34 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 174397

Ion Ratio Lower Upper

91 100

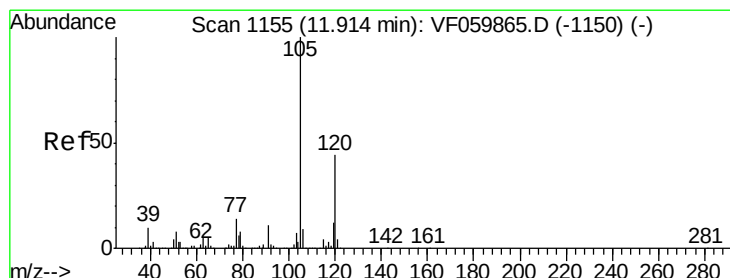
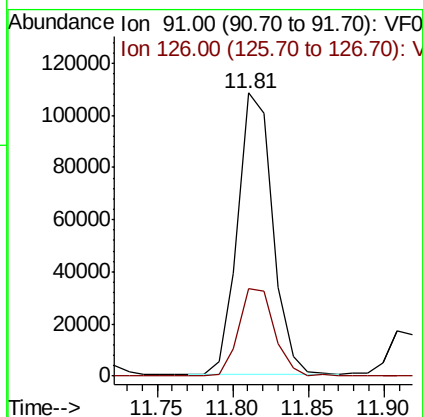
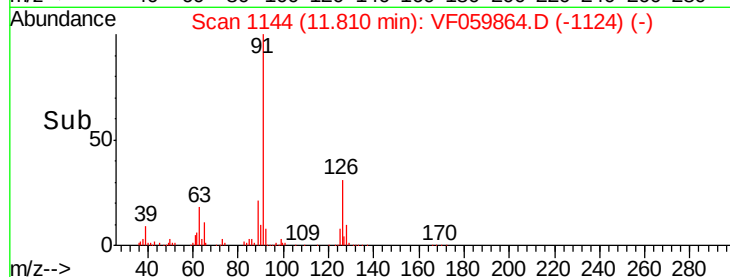
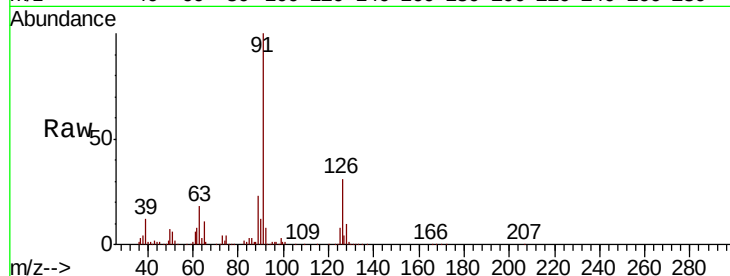
126 31.0 15.6 46.7

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#80

1,3,5-Trimethylbenzene

Concen: 21.25 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VF059864.D

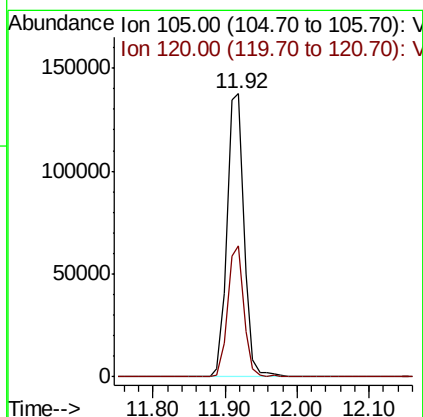
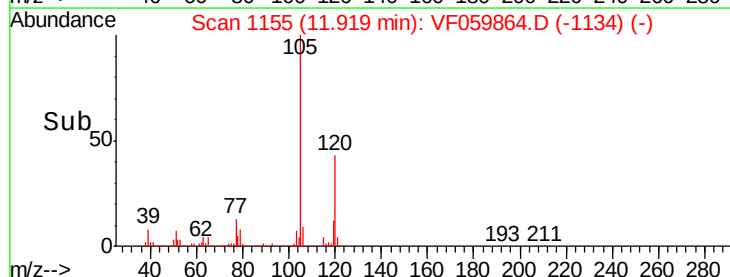
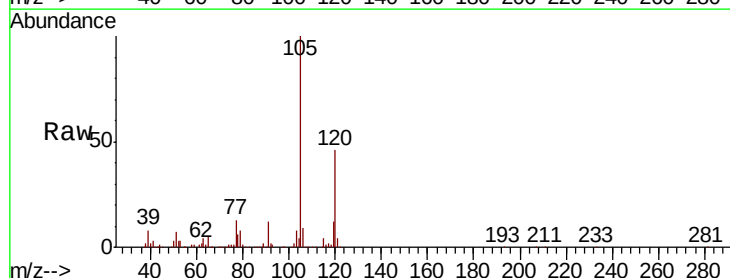
Acq: 4 Aug 2018 4:16

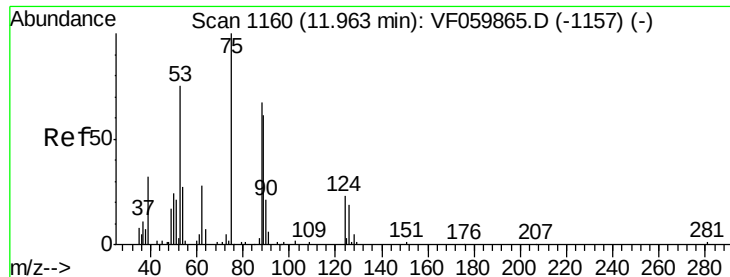
Tgt Ion: 105 Resp: 226485

Ion Ratio Lower Upper

105 100

120 46.1 21.9 65.7





#81

trans-1,4-Dichloro-2-butene

Concen: 17.19 ug/l m

RT: 11.96 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

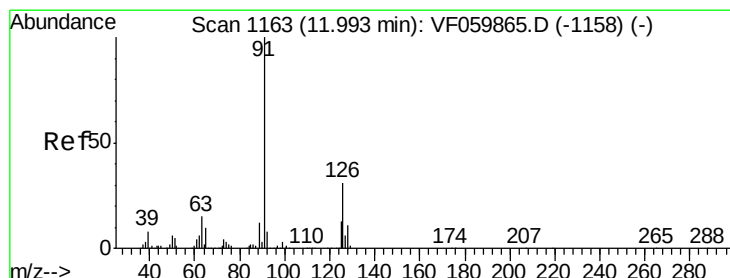
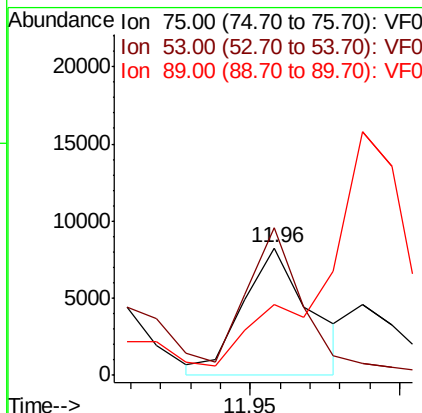
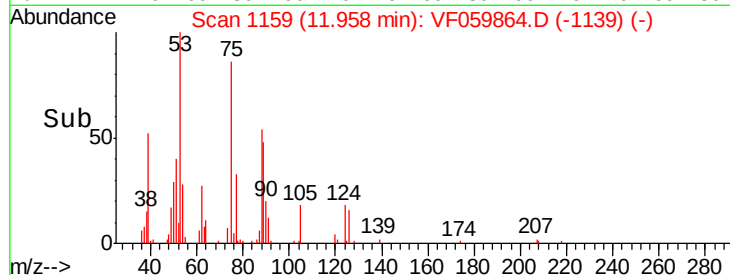
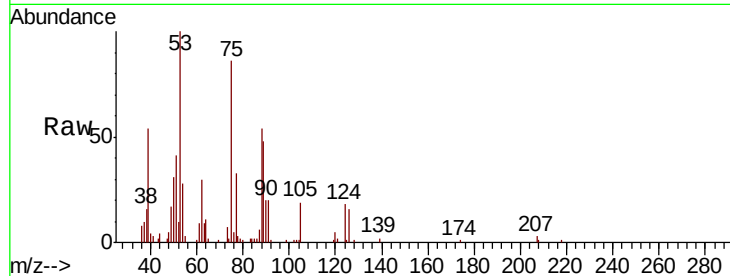
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	12985
Ion Ratio	Lower	Upper	
75	100		
53	115.6	65.9	98.9#
89	55.3	50.6	76.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.03 ug/l

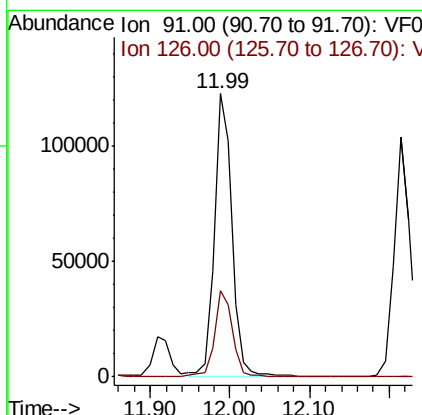
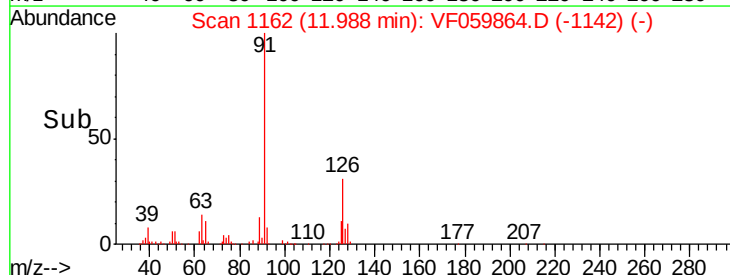
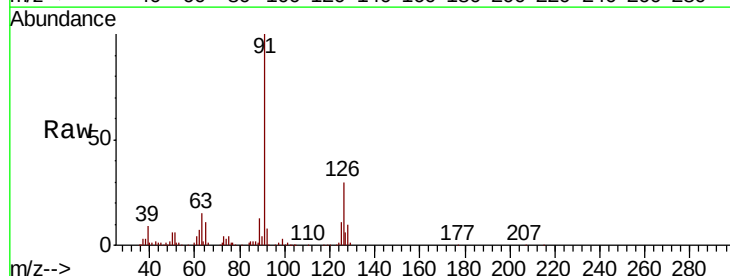
RT: 11.99 min Scan# 1162

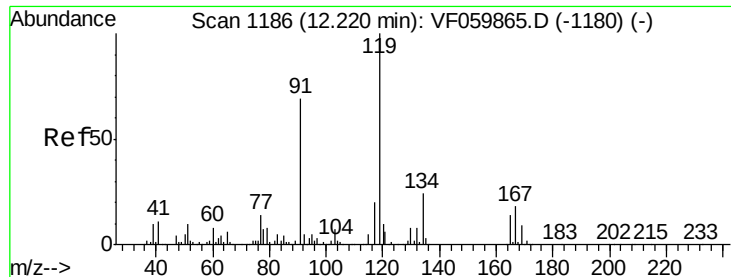
Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	91	Resp:	192452
Ion Ratio	Lower	Upper	
91	100		
126	30.4	15.7	47.0





#83

tert-Butylbenzene

Concen: 20.69 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

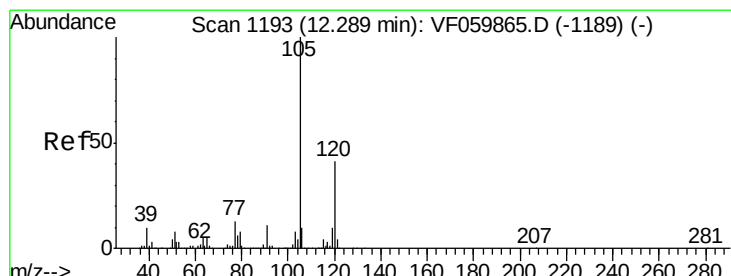
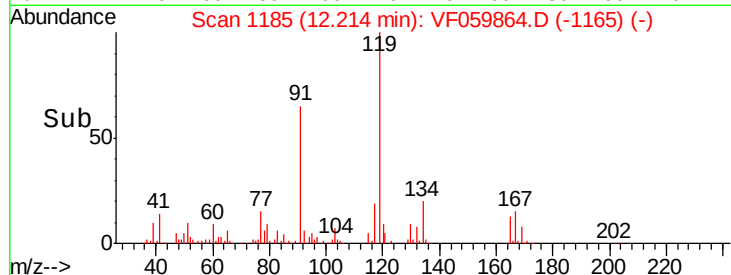
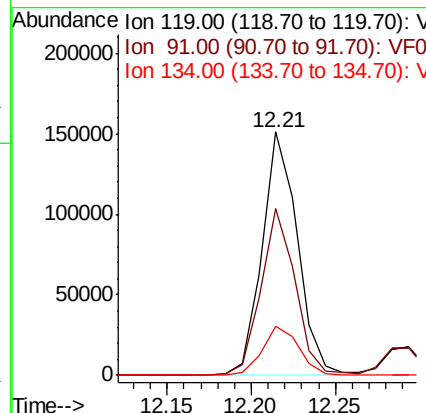
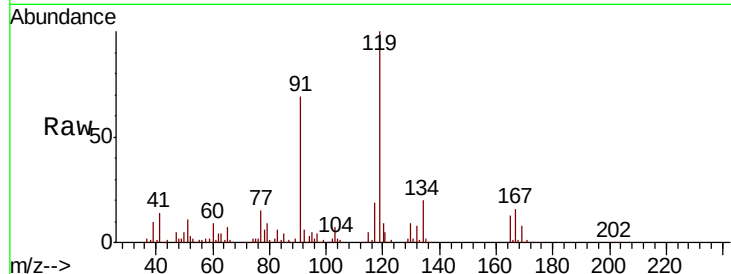
ClientSampleId :

VSTDIC020

Tot Ion:	119	Resp:	218872
Ion Ratio	Lower	Upper	
119	100		
91	68.6	34.4	103.2
134	20.4	12.1	36.3

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 21.69 ug/l

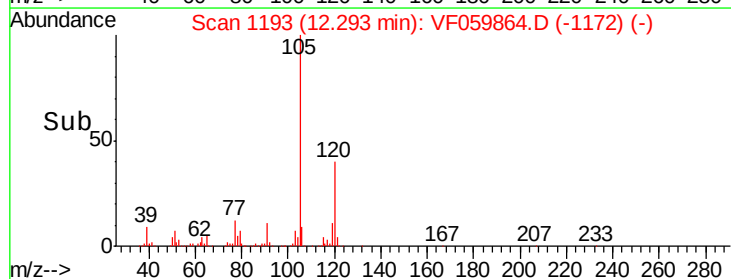
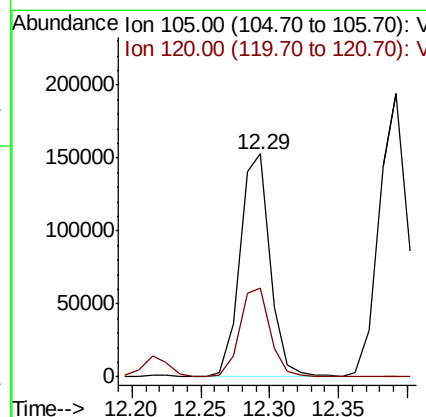
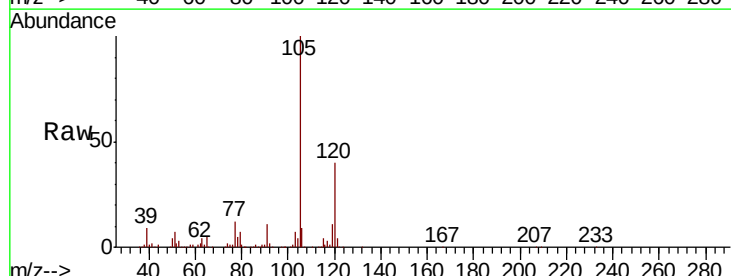
RT: 12.29 min Scan# 1193

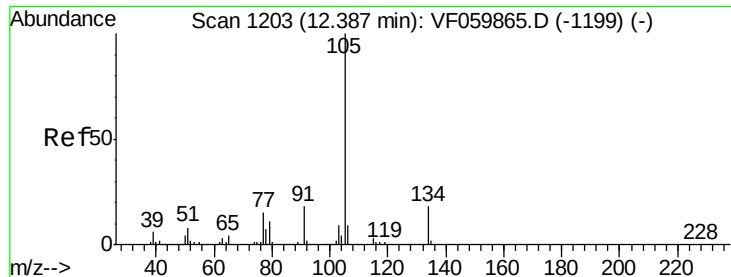
Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	105	Resp:	232044
Ion Ratio	Lower	Upper	
105	100		
120	39.8	20.8	62.5





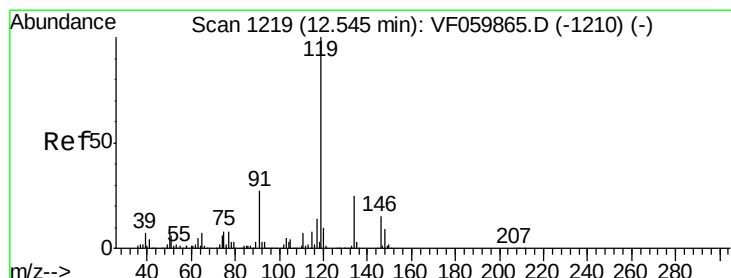
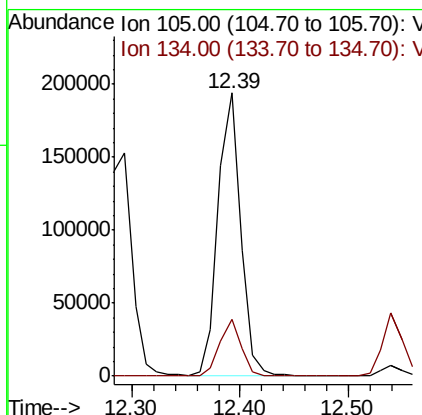
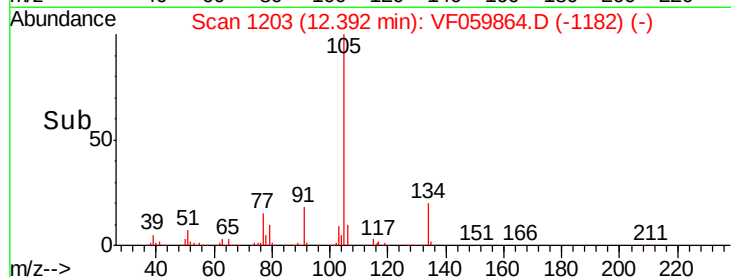
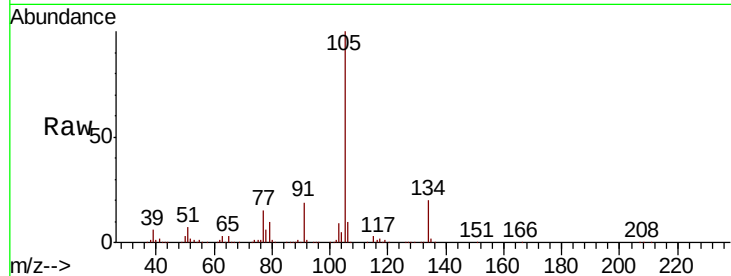
#85
 sec-Butylbenzene
 Concen: 20.77 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
105	100	282877		
134	20.0	9.1	27.3	

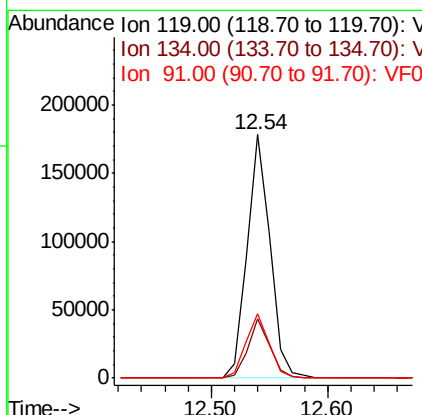
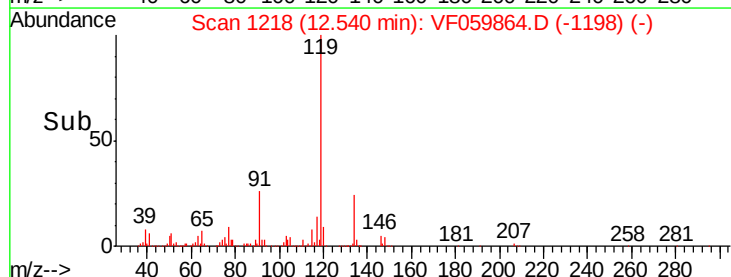
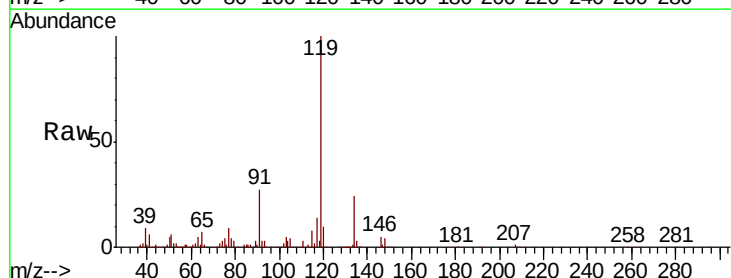
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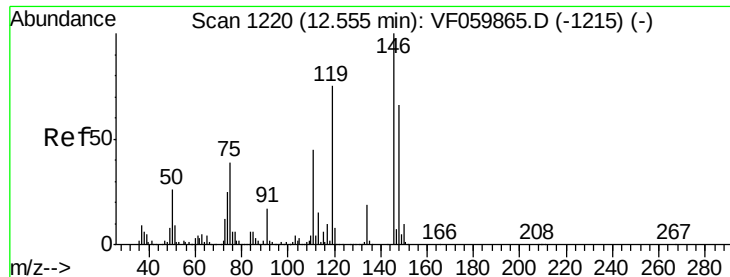
apatel
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#86
 p-Isopropyltoluene
 Concen: 20.29 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	243688		
134	24.1	12.4	37.0	
91	26.6	13.6	40.7	





#87

1,3-Dichlorobenzene

Concen: 20.95 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

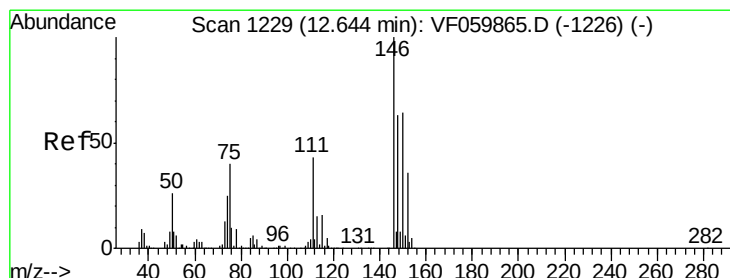
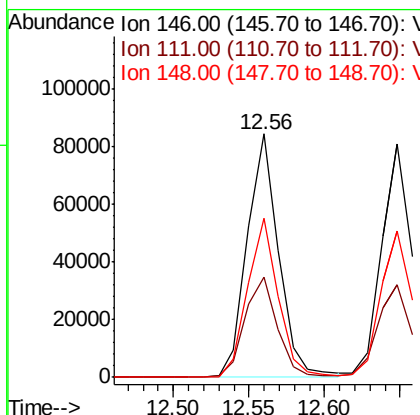
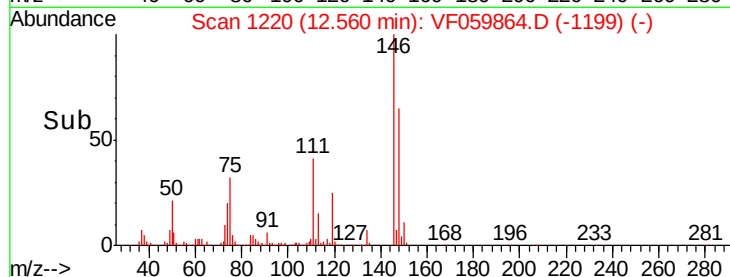
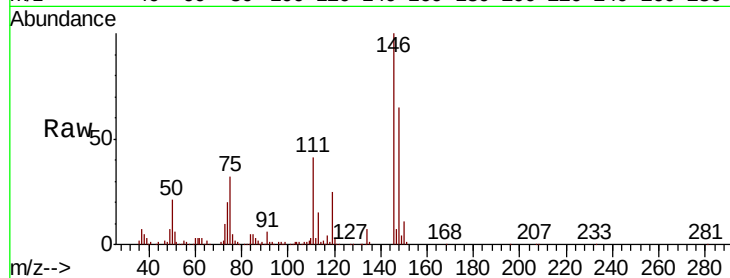
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	123009
Ion Ratio	Lower	Upper	
146	100		
111	41.0	22.4	67.0
148	65.2	33.1	99.3

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#88

1,4-Dichlorobenzene

Concen: 20.65 ug/l

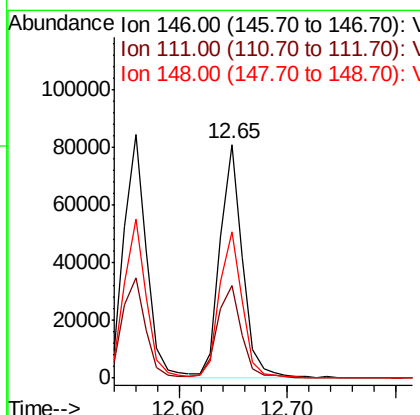
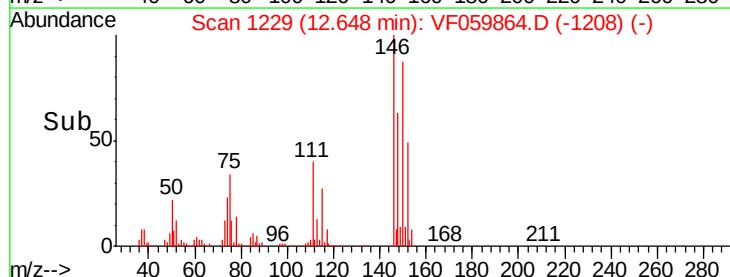
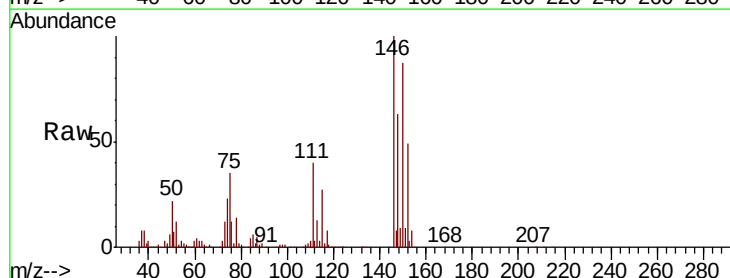
RT: 12.65 min Scan# 1229

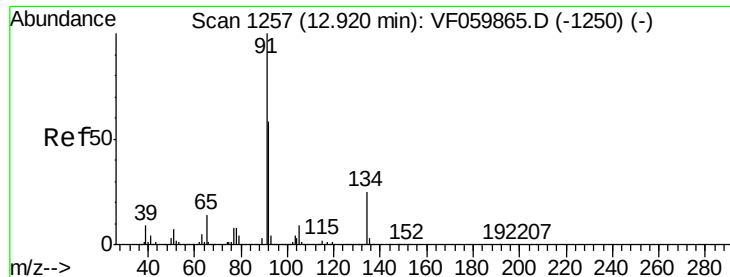
Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	146	Resp:	118612
Ion Ratio	Lower	Upper	
146	100		
111	39.9	21.4	64.2
148	62.5	31.6	94.7





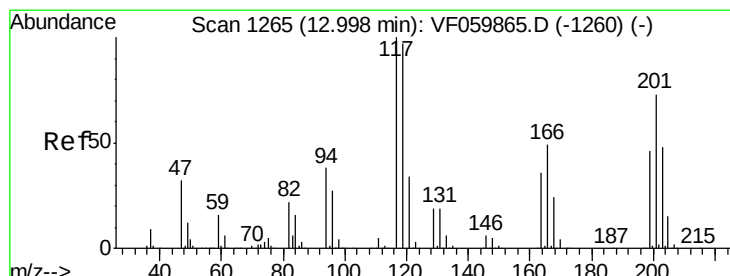
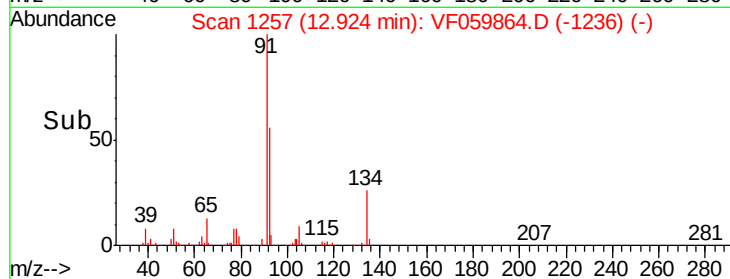
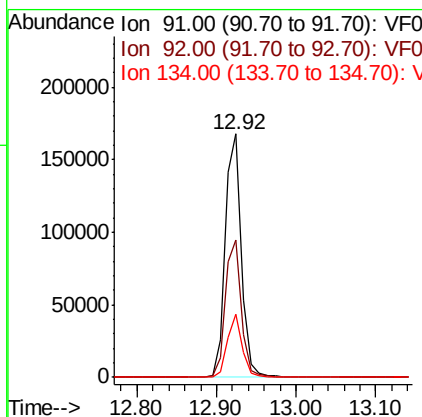
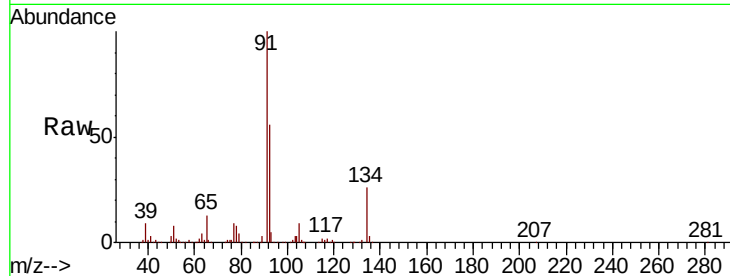
#89
n-Butylbenzene
Concen: 21.22 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.3	28.8	86.5
134	25.8	12.6	37.6

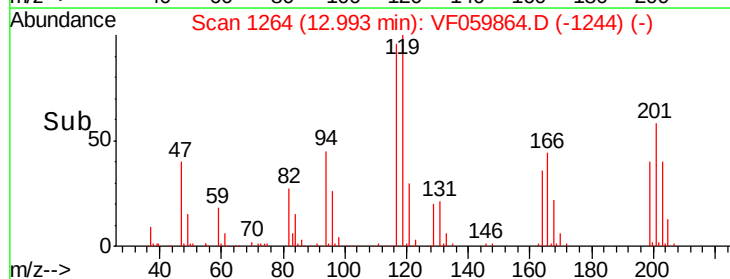
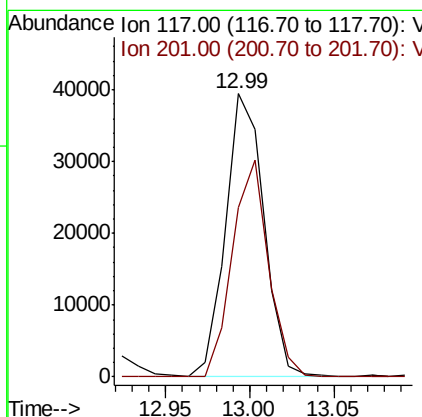
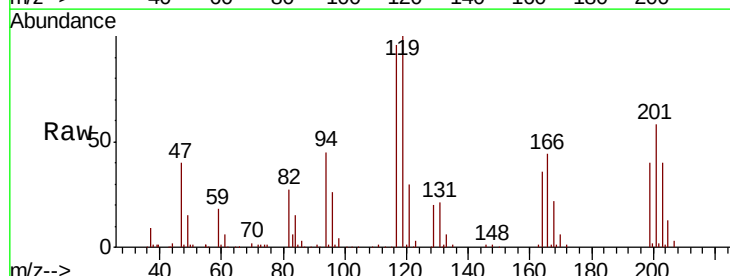
Manual Integrations
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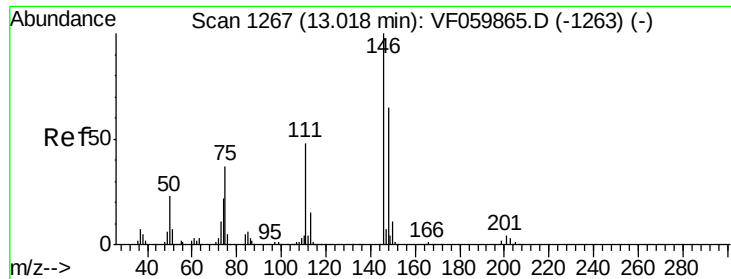
apatel
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#90
Hexachloroethane
Concen: 20.69 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VF059864.D
Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	59.7	36.6	109.8





#91

1,2-Dichlorobenzene

Concen: 20.37 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

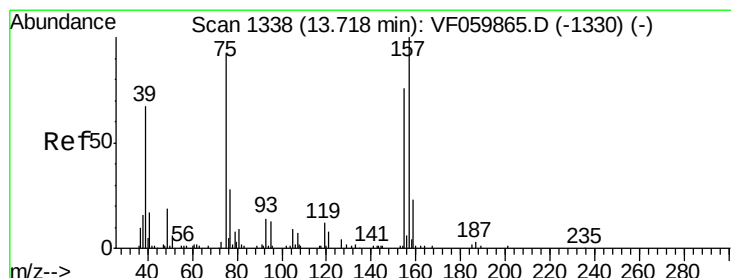
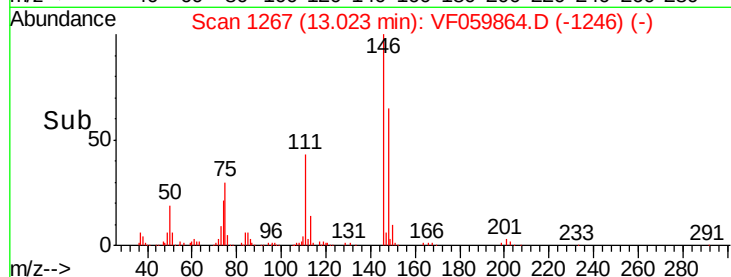
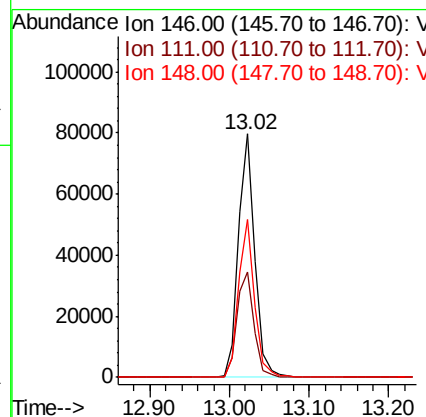
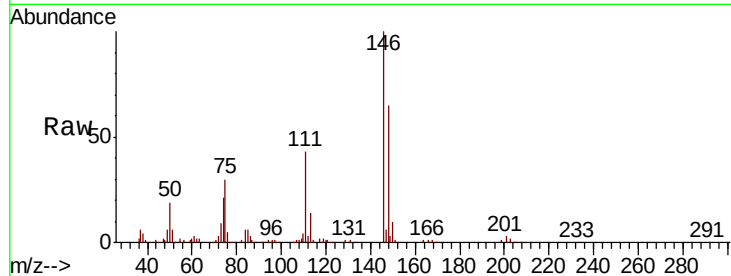
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	115709
Ion Ratio	Lower	Upper	
146	100		
111	43.2	24.1	72.2
148	64.9	32.8	98.3

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 18.14 ug/l

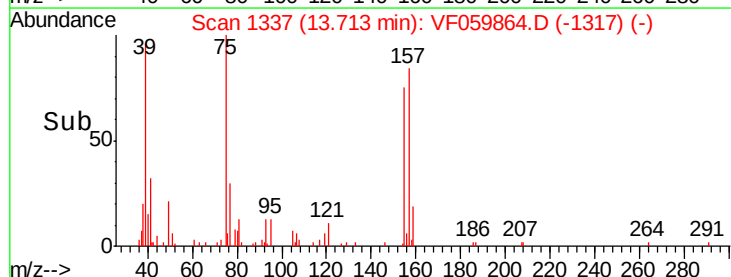
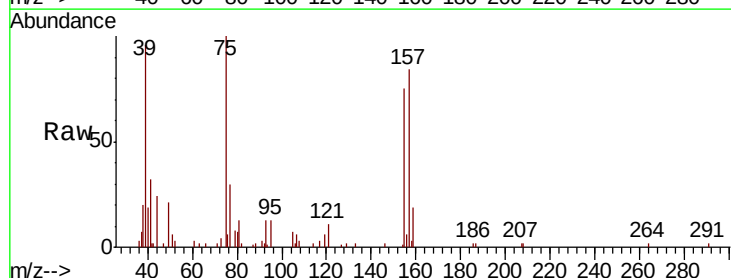
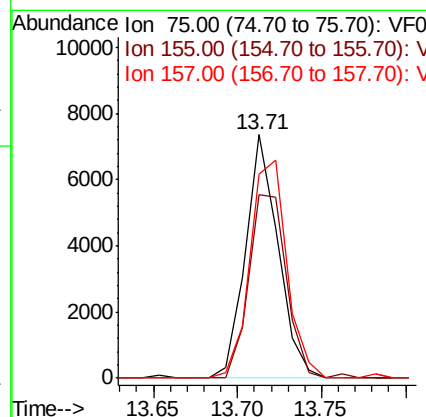
RT: 13.71 min Scan# 1337

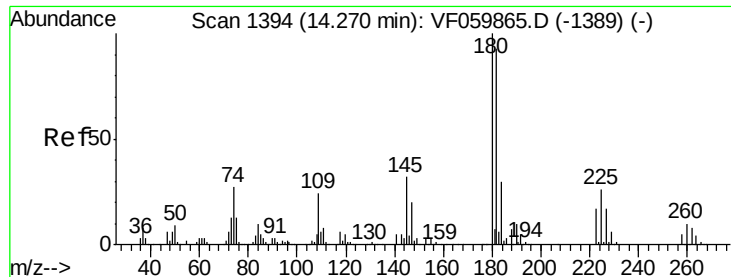
Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	75	Resp:	9878
Ion Ratio	Lower	Upper	
75	100		
155	75.1	41.2	123.6
157	83.9	54.5	163.6





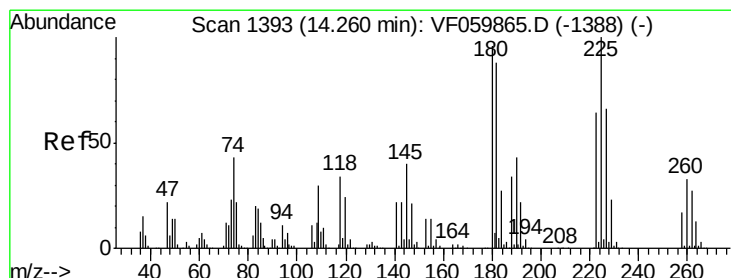
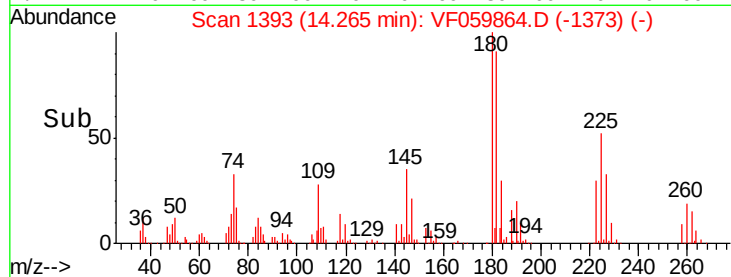
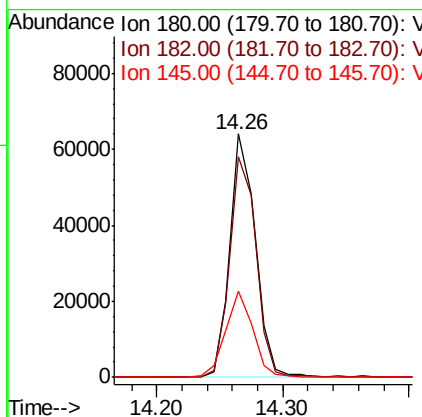
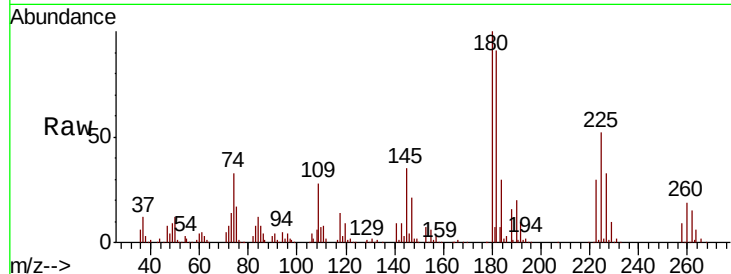
#93
 1,2,4-Trichlorobenzene
 Concen: 20.29 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	90.6	46.4	139.2	
145	35.2	15.9	47.7	

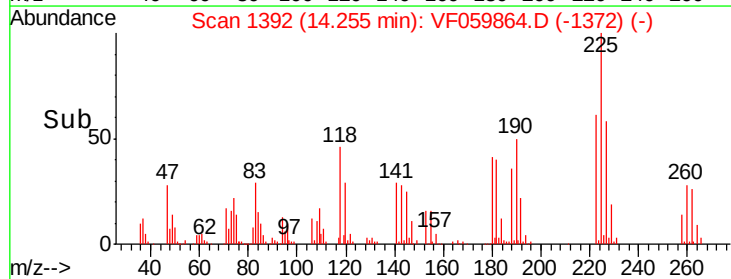
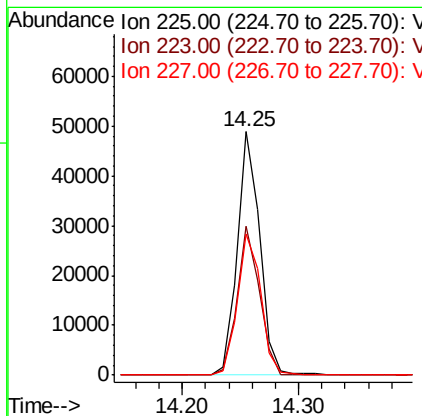
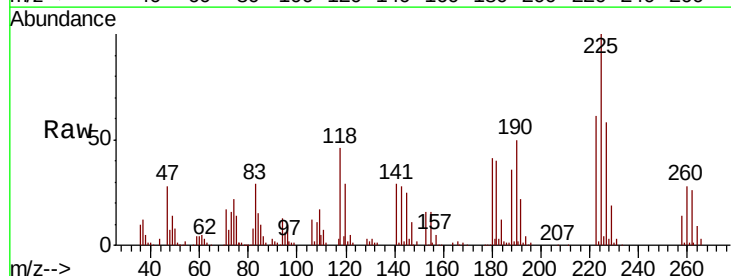
Manual Integrations
 APPROVED

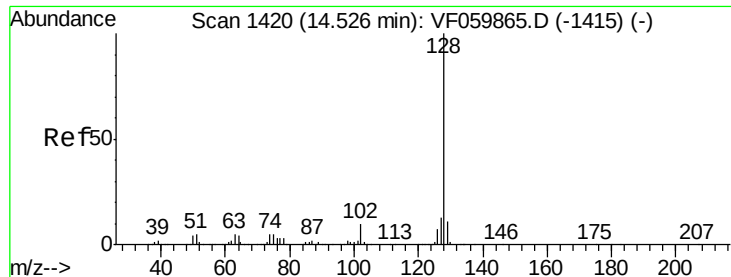
apatel
 8/6/2018 10:25:54 AM



#94
 Hexachlorobutadiene
 Concen: 22.11 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059864.D
 Acq: 4 Aug 2018 4:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.0	31.9	95.9	
227	58.0	32.8	98.4	





#95

Naphthalene

Concen: 19.25 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Instrument :

MSVOA_F

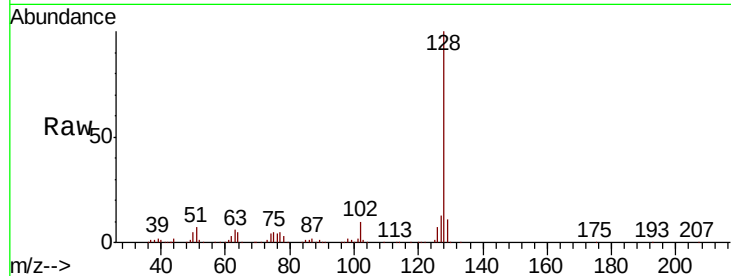
ClientSampleId :

VSTDIC020

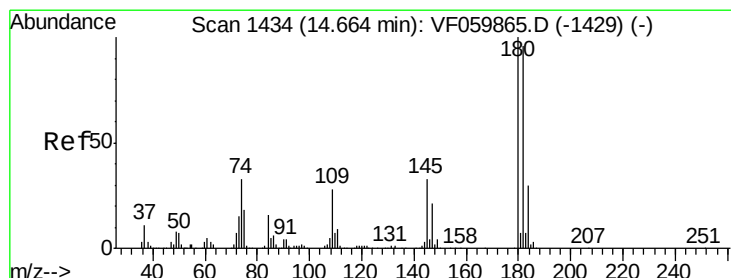
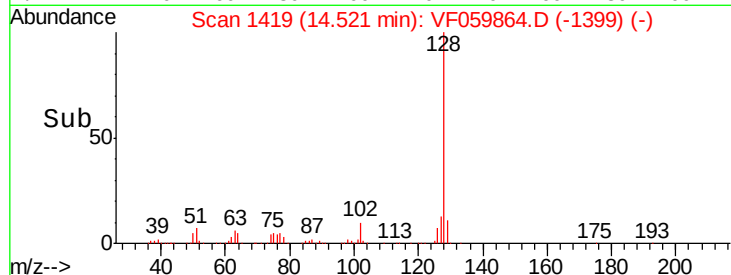
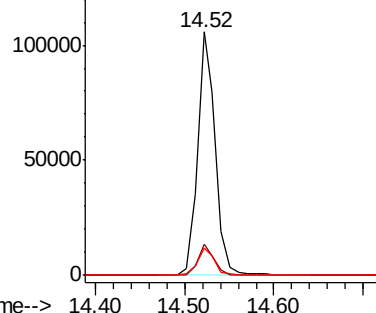
Tot Ion:	128	Resp:	148592
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.4	15.6
129	11.1	9.0	13.6

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.14 ug/l

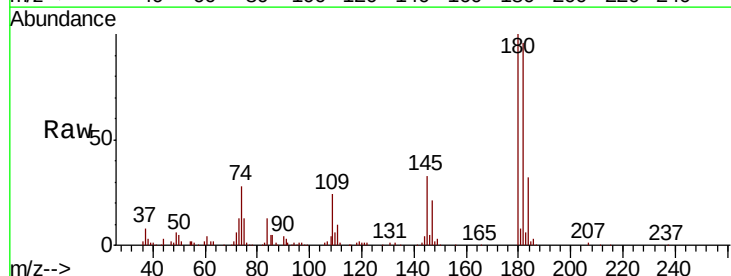
RT: 14.67 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VF059864.D

Acq: 4 Aug 2018 4:16

Tgt Ion:	180	Resp:	86310
Ion Ratio	Lower	Upper	
180	100		
182	95.6	48.1	144.3
145	33.3	16.6	49.8



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

