

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060761.D
 Acq On : 16 Nov 2018 12:22
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 11/19/2018 12:33:00 PM

Quant Time: Nov 17 04:30:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	191866	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	314256	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.80	117	291802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	160151	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	99270	45.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.72%	
35) Dibromofluoromethane	4.13	113	116325	49.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.48%	
50) Toluene-d8	7.58	98	332522	55.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.48%	
62) 4-Bromofluorobenzene	11.42	95	152011	54.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	162423	47.302	ug/l	98
3) Chloromethane	1.11	50	101247	47.545	ug/l	98
4) Vinyl Chloride	1.15	62	88499	46.457	ug/l	99
5) Bromomethane	1.33	94	60977	50.391	ug/l	98
6) Chloroethane	1.39	64	38405	51.528	ug/l	97
7) Trichlorofluoromethane	1.50	101	198813	47.195	ug/l	98
8) Diethyl Ether	1.64	74	23274	43.121	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.84	101	90188	45.432	ug/l	98
10) Methyl Iodide	1.90	142	143936m	45.191	ug/l	
11) Tert butyl alcohol	2.58	59	24701	248.005	ug/l	95
12) 1,1-Dichloroethene	1.80	96	68405	43.701	ug/l	93
13) Acrolein	2.01	56	19538	214.543	ug/l	91
14) Allyl chloride	2.10	41	129547	47.241	ug/l	97
15) Acrylonitrile	2.95	53	42595	200.702	ug/l	90
16) Acetone	2.25	43	124219	265.557	ug/l	100
17) Carbon Disulfide	1.84	76	201260	42.541	ug/l	96
18) Methyl Acetate	2.36	43	33597	43.741	ug/l	97
19) Methyl tert-butyl Ether	2.44	73	175345	46.694	ug/l	97
20) Methylene Chloride	2.19	84	69122m	44.126	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	68241	41.727	ug/l	87
22) Diisopropyl ether	2.81	45	242721	45.846	ug/l	98
23) Vinyl Acetate	3.21	43	674861	270.696	ug/l	100
24) 1,1-Dichloroethane	2.88	63	147424	45.995	ug/l	99
25) 2-Butanone	4.34	43	207071	269.134	ug/l	97
26) 2,2-Dichloropropane	3.61	77	117445	46.563	ug/l	90
27) cis-1,2-Dichloroethene	3.49	96	145309	52.231	ug/l	97
28) Bromochloromethane	3.73	49	84776	50.893	ug/l	95
29) Tetrahydrofuran	4.09	42	85951	270.828	ug/l	99
30) Chloroform	3.88	83	249175	48.452	ug/l	94
31) Cyclohexane	3.71	56	201017	51.673	ug/l	98
32) 1,1,1-Trichloroethane	4.11	97	199733	49.319	ug/l	99
36) 1,1-Dichloropropene	4.30	75	189425	51.974	ug/l	96
37) Ethyl Acetate	4.12	43	76117	56.175	ug/l	86
38) Carbon Tetrachloride	4.01	117	166421	47.059	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	230401	54.490	ug/l	95
40) Benzene	4.65	78	432975	53.294	ug/l	99
41) Methacrylonitrile	4.76	41	40935	57.295	ug/l #	91
42) 1,2-Dichloroethane	4.96	62	147430	52.512	ug/l	100
43) Isopropyl Acetate	6.97	43	91023	50.666	ug/l #	97
44) Trichloroethene	5.52	130	131944	51.475	ug/l	97
45) 1,2-Dichloropropane	6.25	63	107478	50.839	ug/l	99
46) Dibromomethane	6.11	93	74505	53.388	ug/l	94
47) Bromodichloromethane	6.40	83	177464	49.798	ug/l	99
48) Methyl methacrylate	6.73	41	61196	51.469	ug/l	98
49) 1,4-Dioxane	6.73	88	11507	1034.814	ug/l	97
51) 4-Methyl-2-Pentanone	8.28	43	349172	268.728	ug/l	99
52) Toluene	7.65	92	274258	50.375	ug/l	99
53) t-1,3-Dichloropropene	8.30	75	143567	50.299	ug/l	98
54) cis-1,3-Dichloropropene	7.32	75	184350	49.723	ug/l	98
55) 1,1,2-Trichloroethane	8.51	97	79089	50.843	ug/l	93
56) Ethyl methacrylate	8.63	69	88943	50.346	ug/l	96
57) 1,3-Dichloropropane	8.87	76	139782	51.851	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.65	63	41276	255.768	ug/l	100
59) 2-Hexanone	9.51	43	261162	286.003	ug/l	97
60) Dibromochloromethane	8.73	129	109623	49.448	ug/l	99
61) 1,2-Dibromoethane	9.01	107	82515	50.438	ug/l	97
64) Tetrachloroethene	8.17	164	117245	50.739	ug/l	95
65) Chlorobenzene	9.82	112	301780	51.250	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	129305	50.346	ug/l	96
67) Ethyl Benzene	9.91	91	548730	49.439	ug/l	98
68) m/p-Xylenes	10.15	106	413291	104.194	ug/l	100
69) o-Xylene	10.72	106	235230	52.748	ug/l	96
70) Styrene	10.80	104	304941	50.385	ug/l	96
71) Bromoform	10.78	173	61734	53.453	ug/l	98
73) Isopropylbenzene	11.14	105	691003	53.603	ug/l	98
74) N-amyl acetate	11.38	43	172035	58.622	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.71	83	106120	49.792	ug/l	99
76) 1,2,3-Trichloropropane	11.81	75	73555	46.470	ug/l	98
77) Bromobenzene	11.51	156	140982	52.540	ug/l	91
78) n-propylbenzene	11.61	91	754951	50.214	ug/l	98
79) 2-Chlorotoluene	11.73	91	430386	49.253	ug/l	95
80) 1,3,5-Trimethylbenzene	11.84	105	519546	50.765	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.88	75	34453m	44.305	ug/l	
82) 4-Chlorotoluene	11.92	91	405260	45.271	ug/l	95
83) tert-Butylbenzene	12.14	119	553543	50.940	ug/l	96
84) 1,2,4-Trimethylbenzene	12.21	105	523264	49.436	ug/l	94
85) sec-Butylbenzene	12.32	105	716326	48.595	ug/l	99
86) p-Isopropyltoluene	12.47	119	596977	48.490	ug/l	96
87) 1,3-Dichlorobenzene	12.49	146	251857	47.165	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	256213	49.923	ug/l	96
89) n-Butylbenzene	12.85	91	595097	47.366	ug/l	98
90) Hexachloroethane	12.93	117	152686	50.706	ug/l	85
91) 1,2-Dichlorobenzene	12.95	146	248633	49.450	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	19702	49.184	ug/l	85

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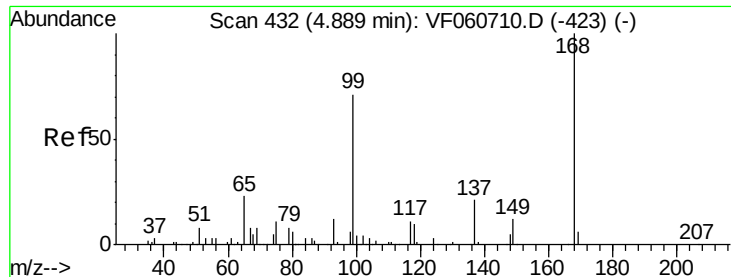
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	179446	49.655	ug/l	96
94) Hexachlorobutadiene	14.21	225	117666	49.826	ug/l	96
95) Naphthalene	14.47	128	351637	53.326	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	173941	52.088	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 191866

Ion Ratio Lower Upper

168 100

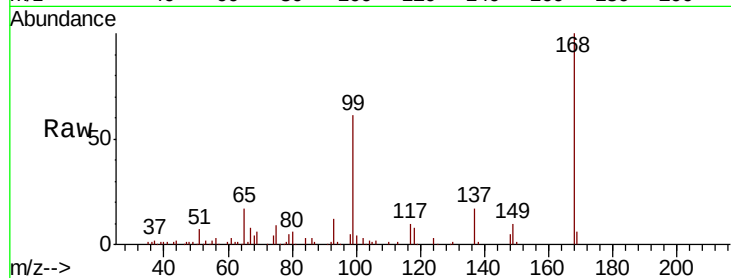
99 61.3 57.2 85.8

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

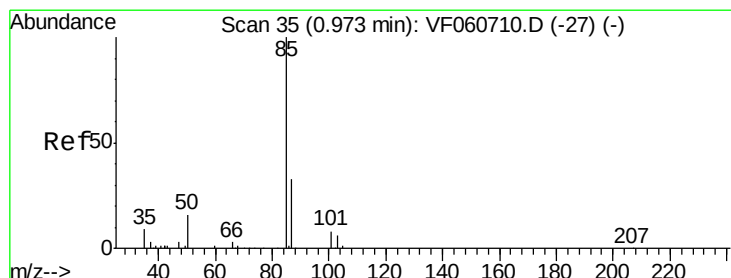
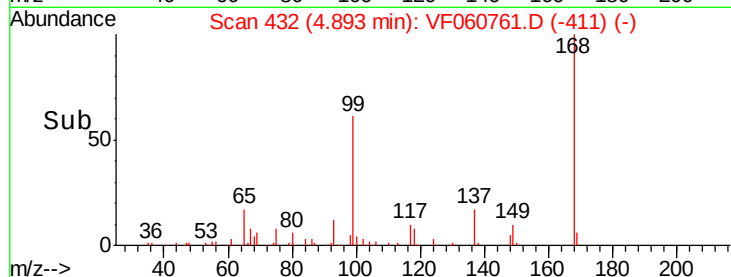
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 47.302 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060761.D

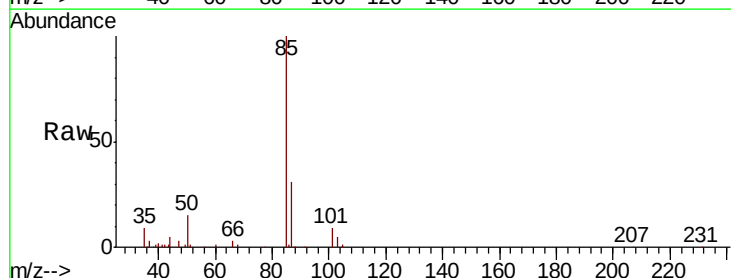
Acq: 16 Nov 2018 12:22

Tgt Ion: 85 Resp: 162423

Ion Ratio Lower Upper

85 100

87 31.2 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

50000

40000

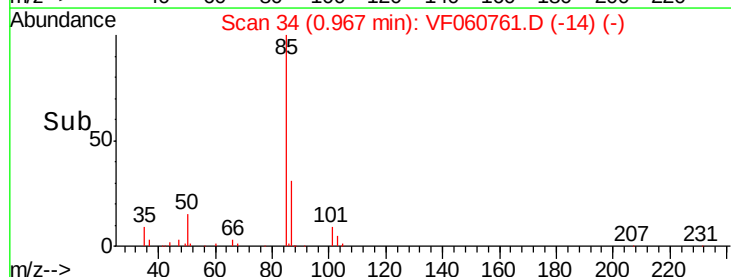
30000

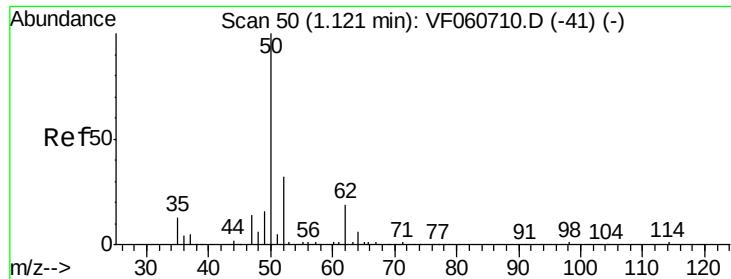
20000

10000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 47.545 ug/l

RT: 1.11 min Scan# 48

Delta R.T. -0.02 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 101247

Ion Ratio Lower Upper

50 100

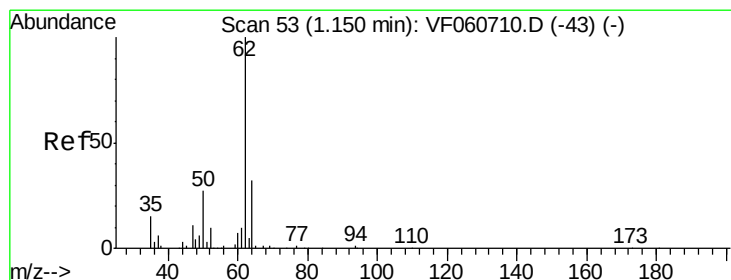
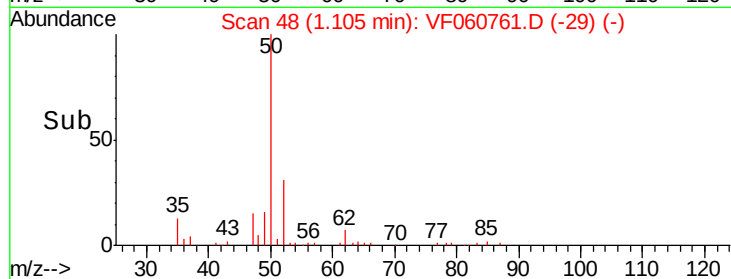
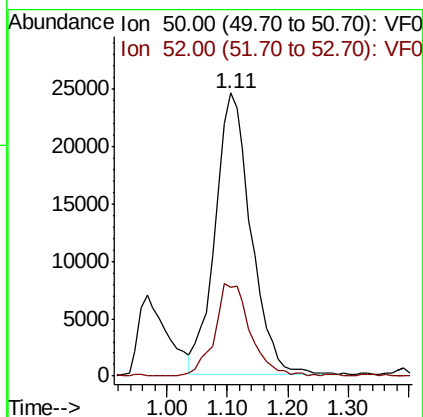
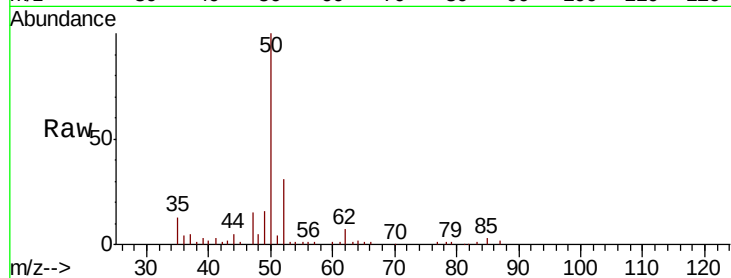
52 31.3 24.2 36.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 46.457 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.00 min

Lab File: VF060761.D

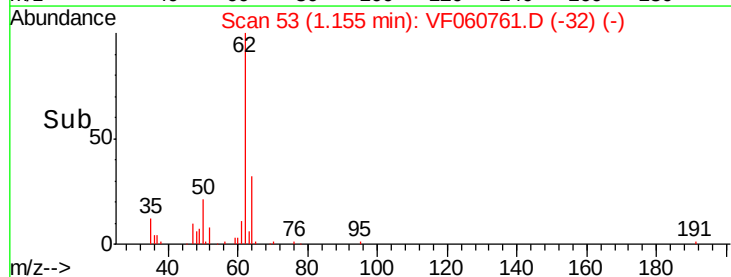
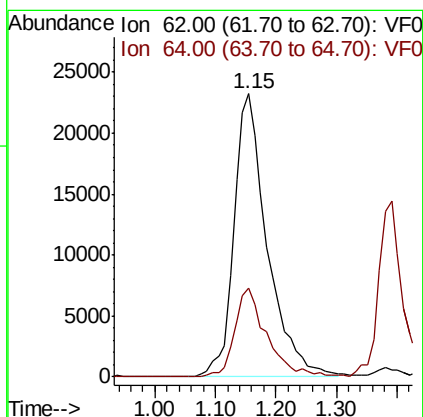
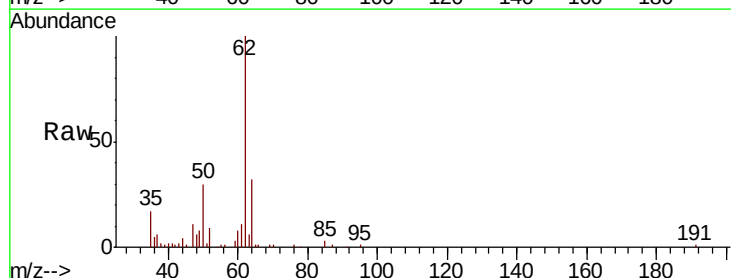
Acq: 16 Nov 2018 12:22

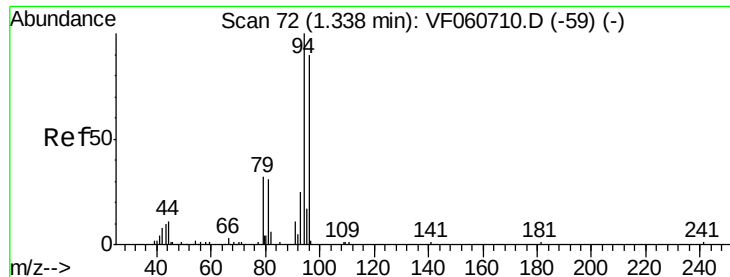
Tgt Ion: 62 Resp: 88499

Ion Ratio Lower Upper

62 100

64 31.5 25.8 38.8





#5

Bromomethane

Concen: 50.391 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 60977

Ion Ratio Lower Upper

94 100

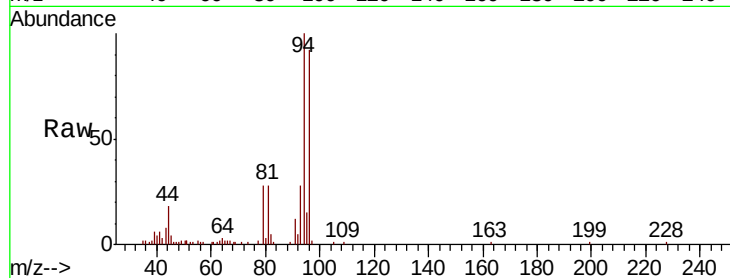
96 91.9 71.9 107.9

Manual Integrations

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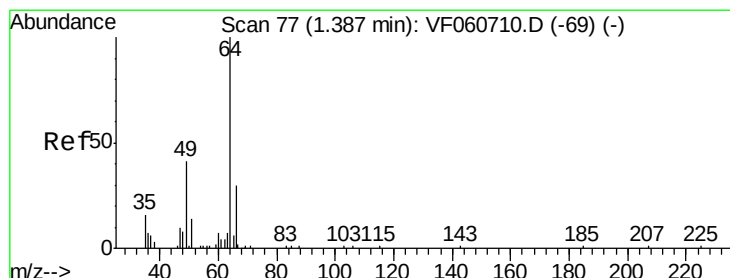
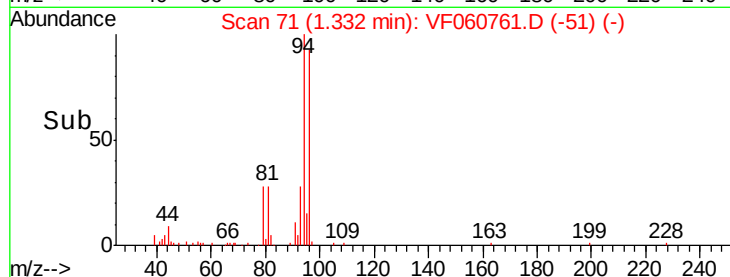
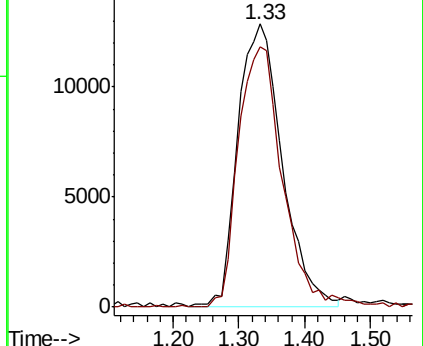
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11/19/2018 12:33:00 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 51.528 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.00 min

Lab File: VF060761.D

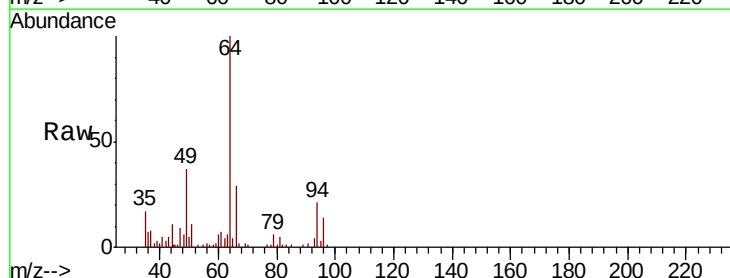
Acq: 16 Nov 2018 12:22

Tgt Ion: 64 Resp: 38405

Ion Ratio Lower Upper

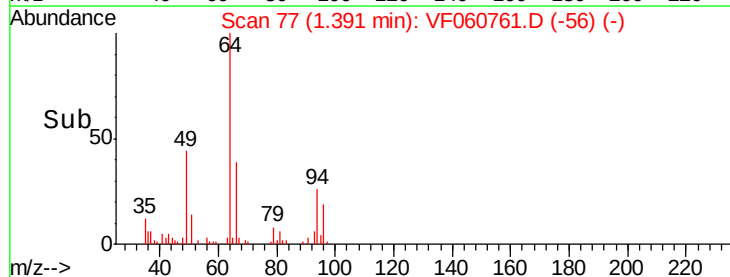
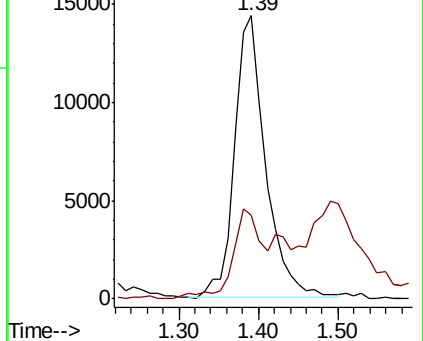
64 100

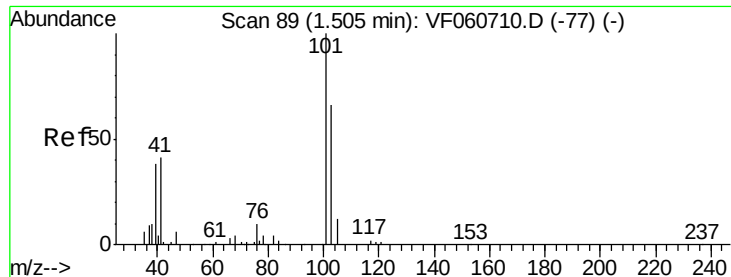
66 29.4 24.8 37.2



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 47.195 ug/l

RT: 1.50 min Scan# 88

Delta R.T. -0.01 min

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Tot Ion:101 Resp: 198813

Ion Ratio Lower Upper

101 100

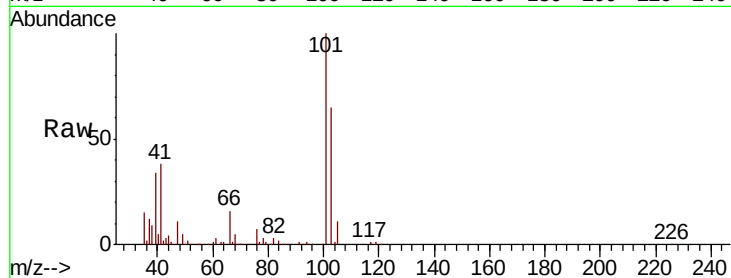
103 64.9 53.1 79.7

Manual Integrations

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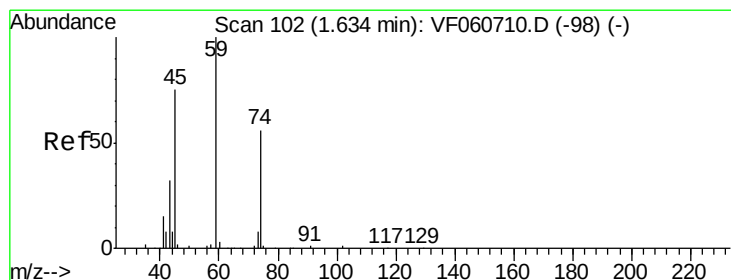
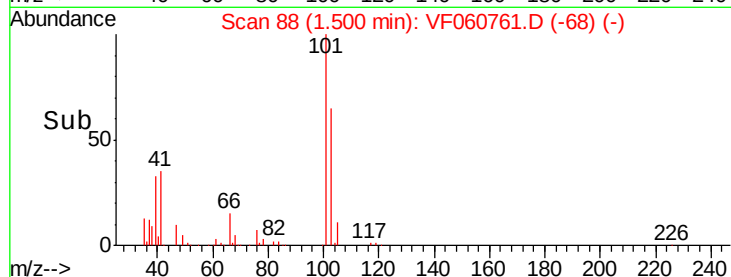
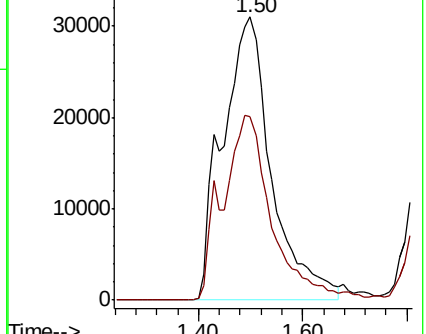
apatel

11/19/2018 12:33:00 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 43.121 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060761.D

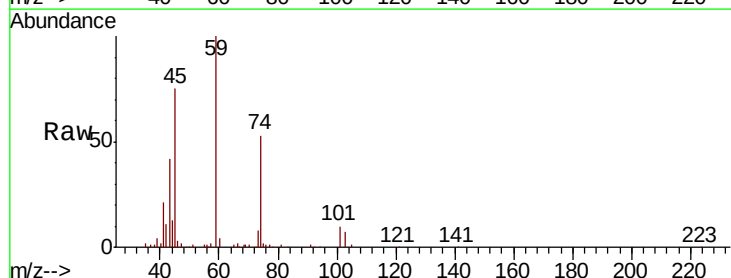
Acq: 16 Nov 2018 12:22

Tgt Ion: 74 Resp: 23274

Ion Ratio Lower Upper

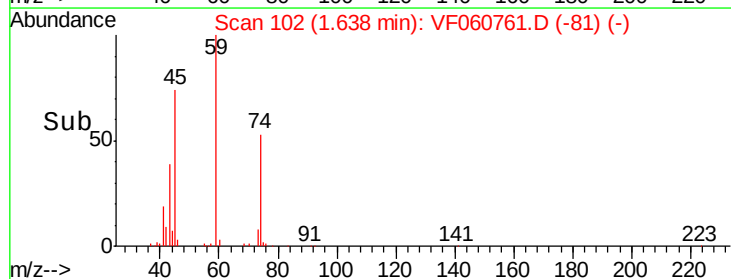
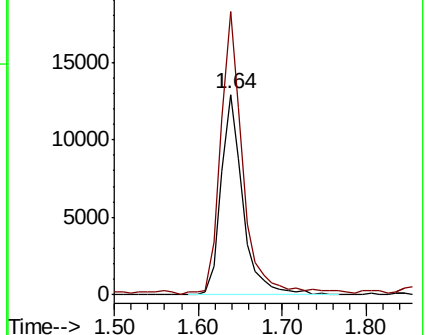
74 100

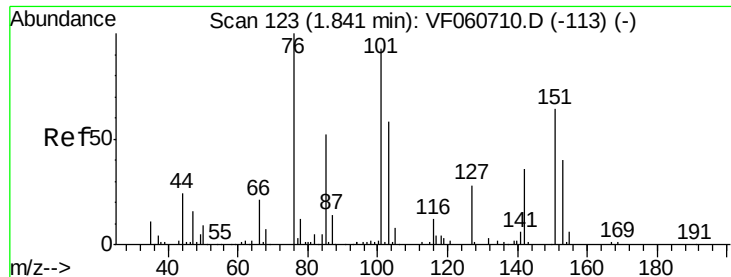
45 141.2 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.432 ug/l

RT: 1.84 min Scan# 122

Delta R.T. -0.01 min

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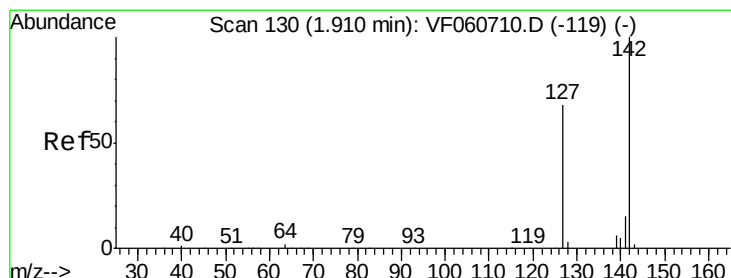
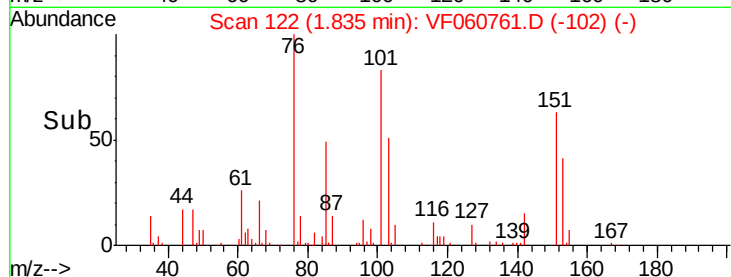
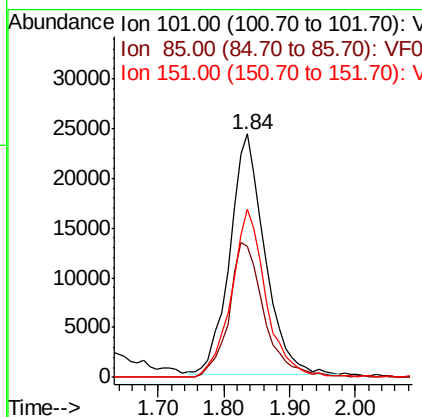
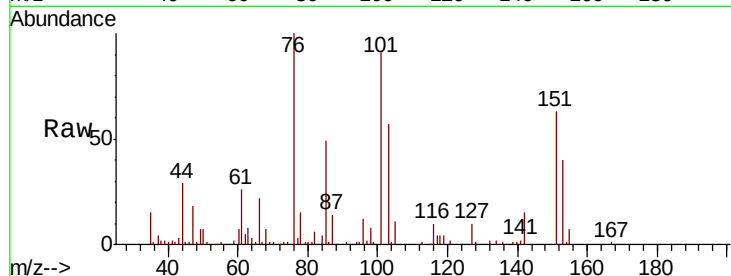
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	90188
Ion Ratio	Lower	Upper	
101	100		
85	53.8	43.6	65.4
151	68.8	53.1	79.7

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#10

Methyl Iodide

Concen: 45.191 ug/l m

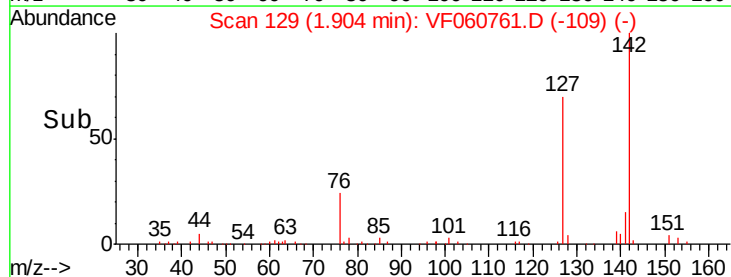
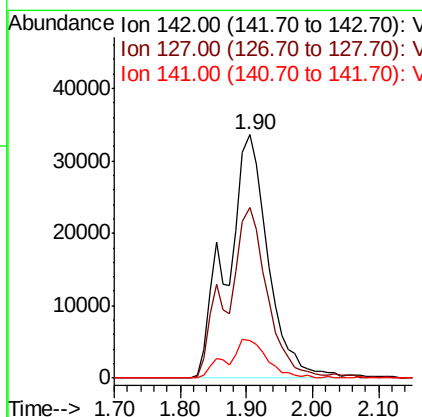
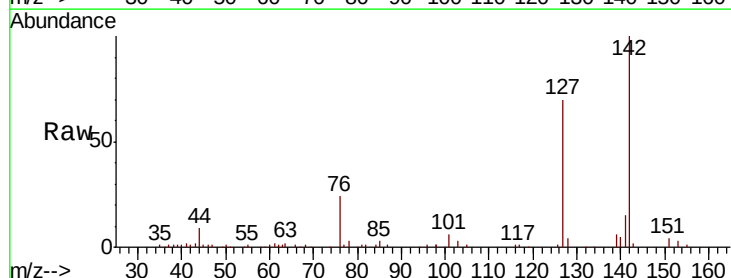
RT: 1.90 min Scan# 129

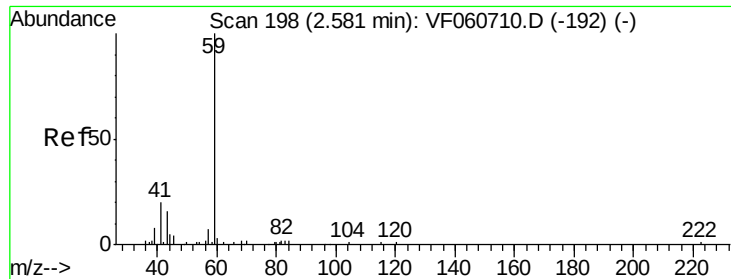
Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	142	Resp:	143936
Ion Ratio	Lower	Upper	
142	100		
127	70.0	54.0	81.0
141	15.3	12.3	18.5





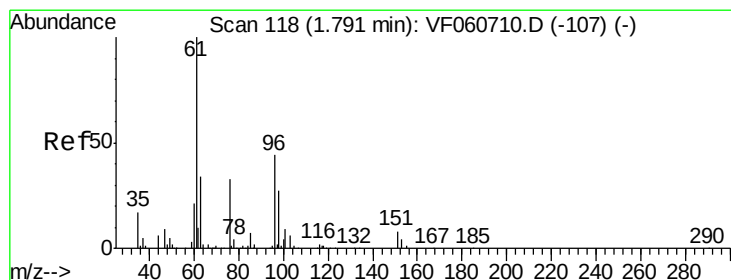
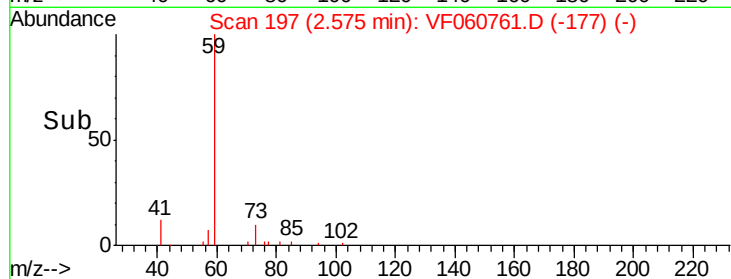
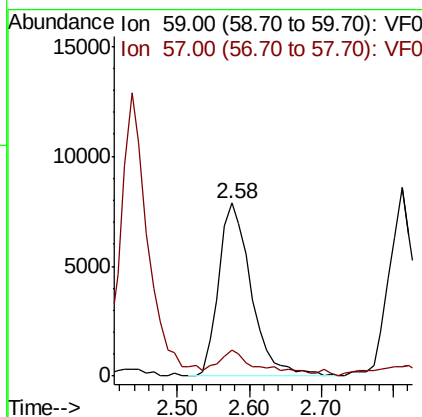
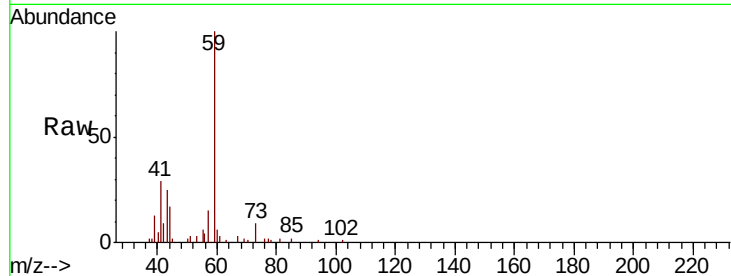
#11
Tert butyl alcohol
Concen: 248.005 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	24701
Ion Ratio	100	Lower	Upper
59	100		
57	15.0	10.5	15.7

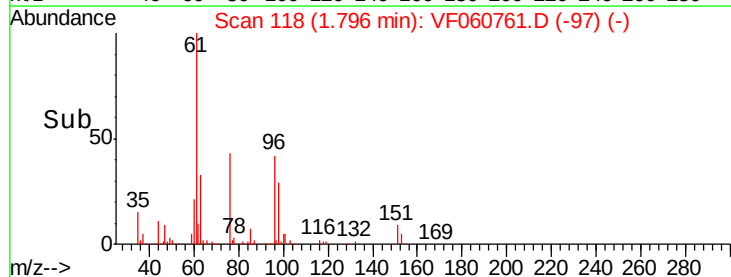
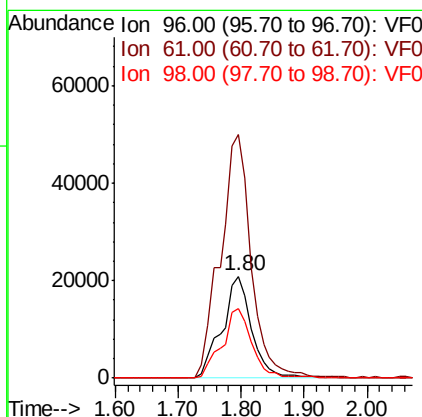
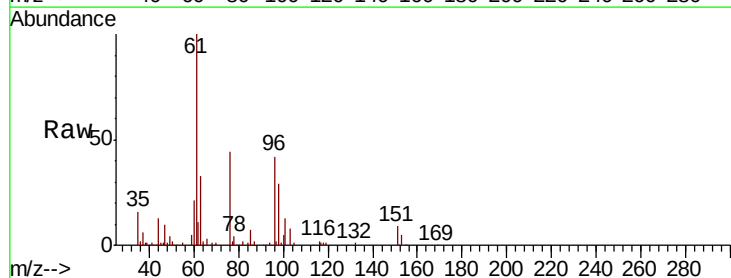
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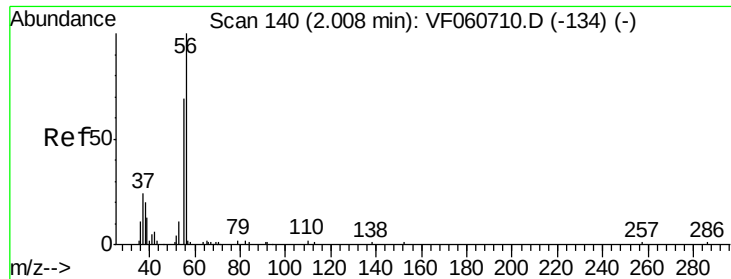
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#12
1,1-Dichloroethene
Concen: 43.701 ug/l
RT: 1.80 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	96	Resp	68405
Ion Ratio	100	Lower	Upper
96	100		
61	238.6	182.2	273.2
98	68.1	49.2	73.8





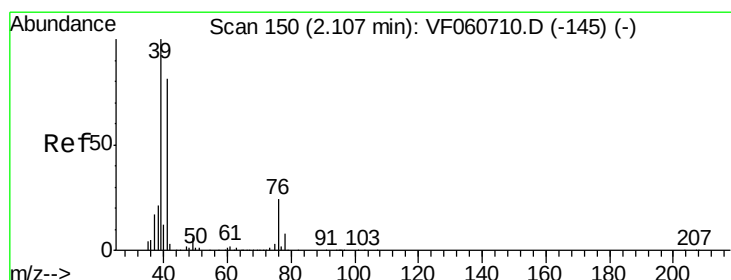
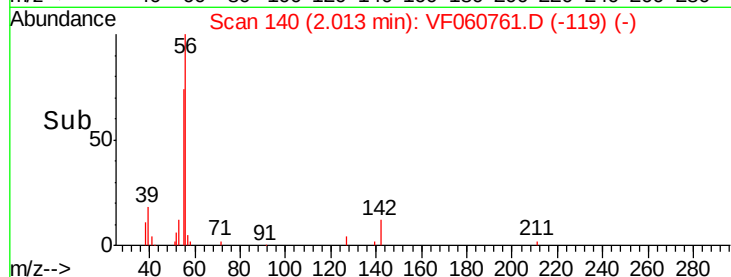
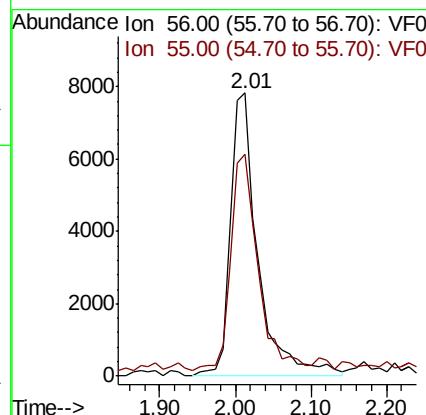
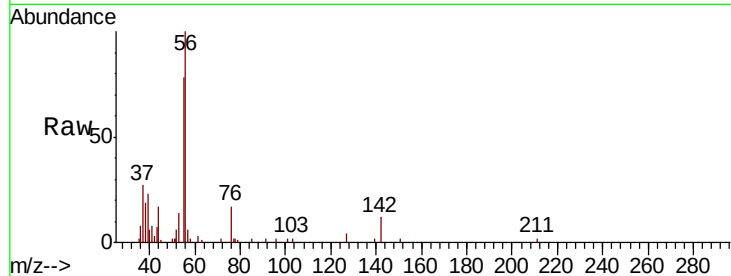
#13
Acrolein
Concen: 214.543 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	56	Resp	19538
Ion Ratio	100	Lower	Upper
55	78.3	56.6	85.0

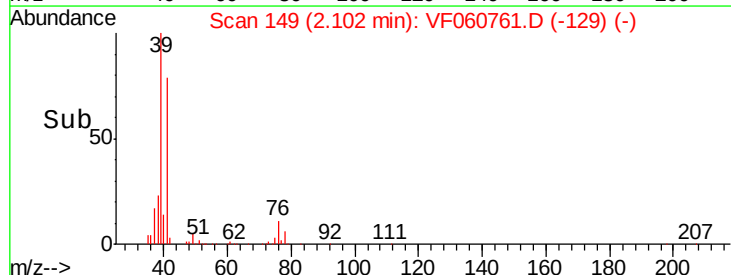
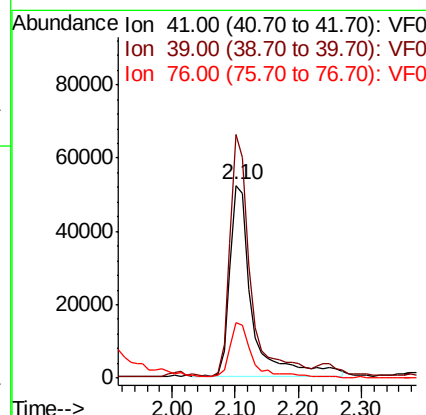
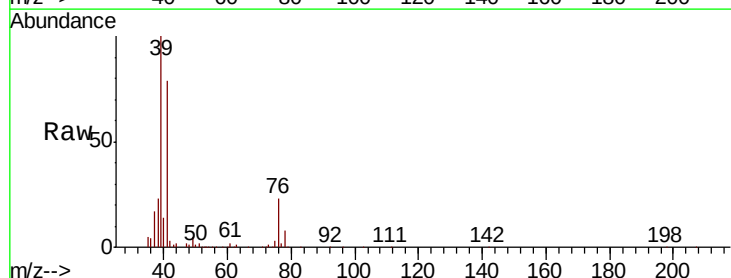
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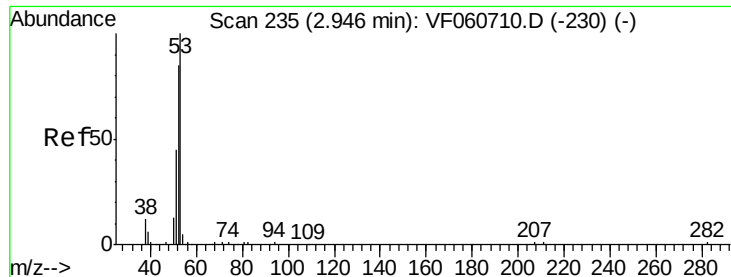
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#14
Allyl chloride
Concen: 47.241 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	41	Resp	129547
Ion Ratio	100	Lower	Upper
39	126.2	98.5	147.7
76	28.8	24.5	36.7





#15

Acrylonitrile

Concen: 200.702 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

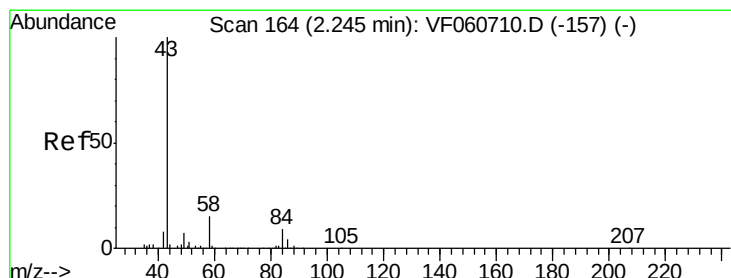
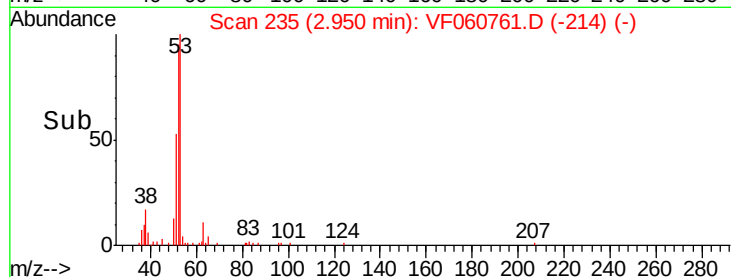
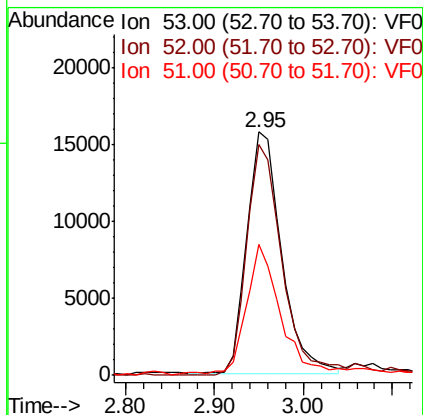
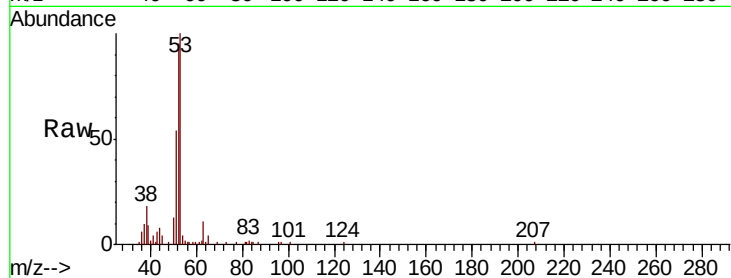
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	42595
Ion	Ratio	Lower	Upper
53	100		
52	94.5	68.8	103.2
51	53.6	36.7	55.1

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#16

Acetone

Concen: 265.557 ug/l

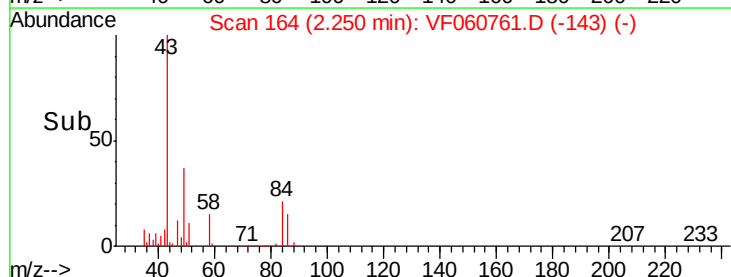
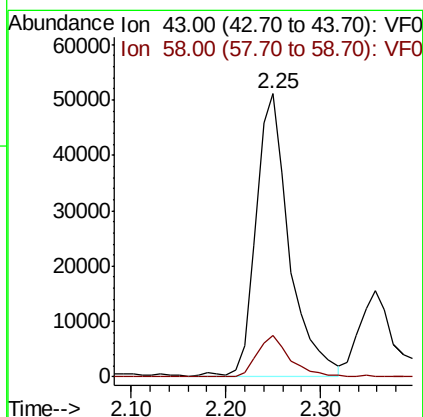
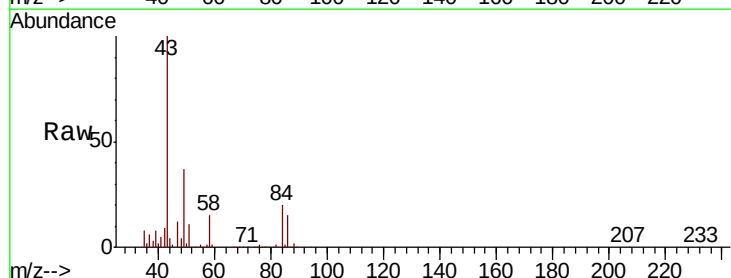
RT: 2.25 min Scan# 164

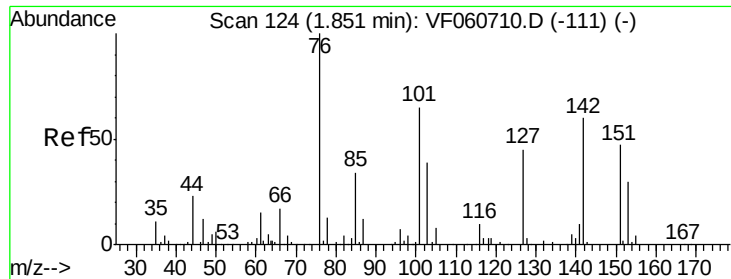
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	43	Resp:	124219
Ion	Ratio	Lower	Upper
43	100		
58	14.7	11.6	17.4





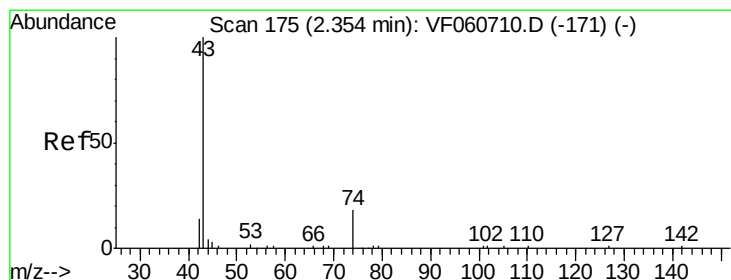
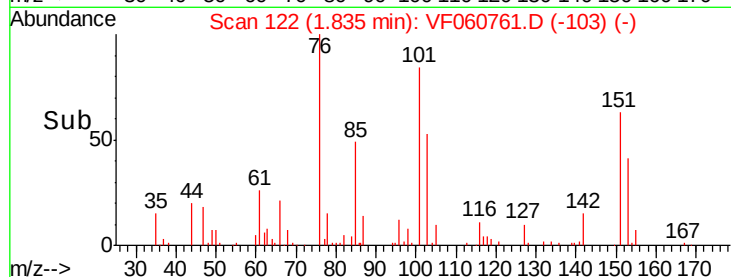
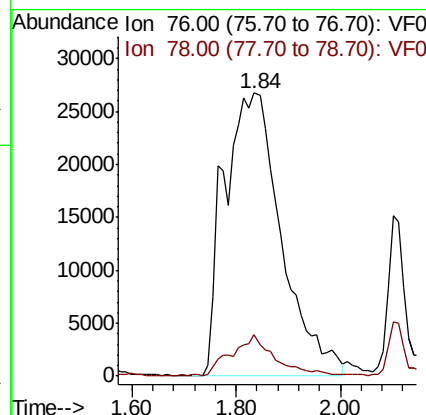
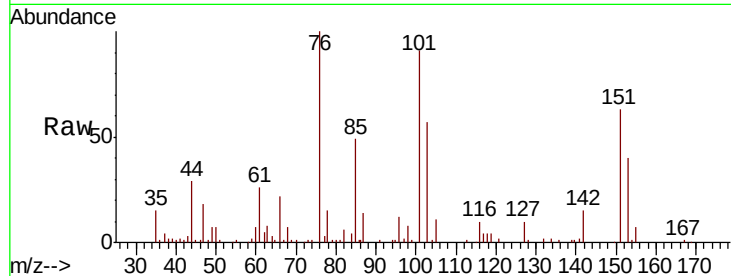
#17
Carbon Disulfide
Concen: 42.541 ug/l
RT: 1.84 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 201260
Ion Ratio Lower Upper
76 100
78 14.7 10.5 15.7

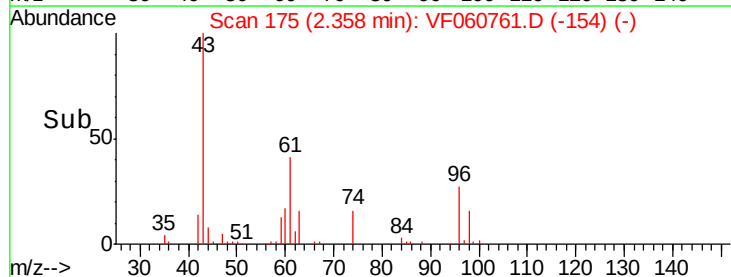
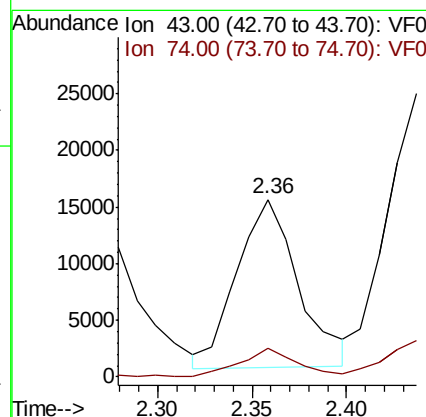
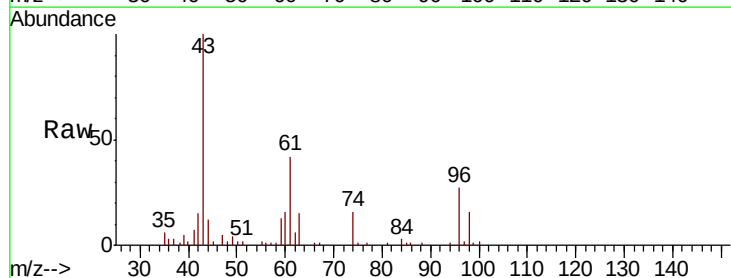
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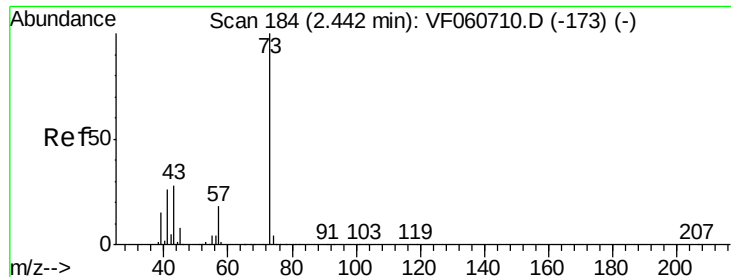
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#18
Methyl Acetate
Concen: 43.741 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion: 43 Resp: 33597
Ion Ratio Lower Upper
43 100
74 16.0 11.8 17.8





#19

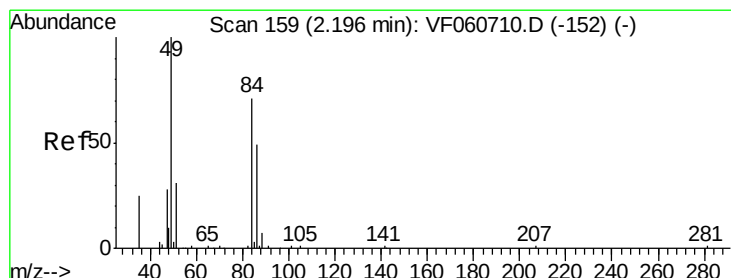
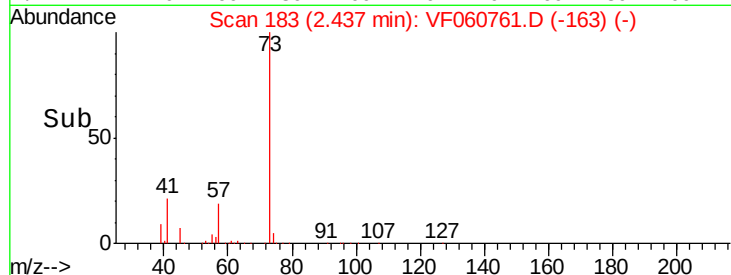
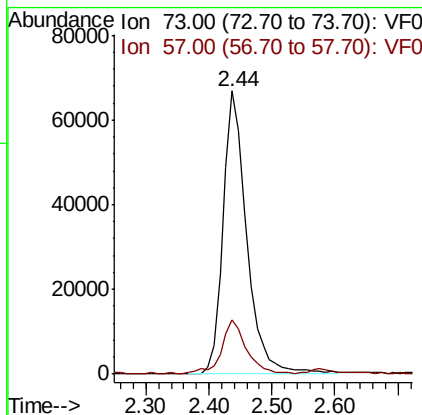
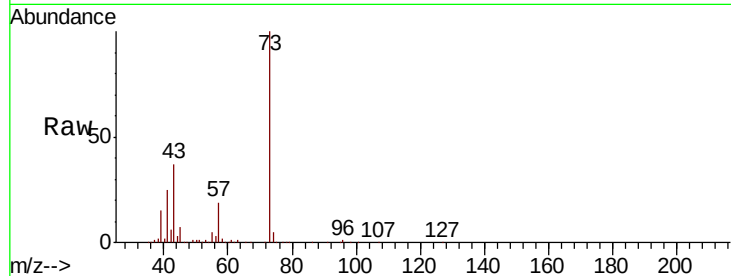
Methyl tert-butyl Ether
 Concen: 46.694 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.3	14.3	21.5

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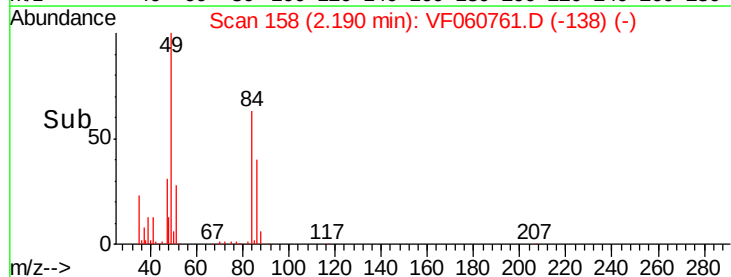
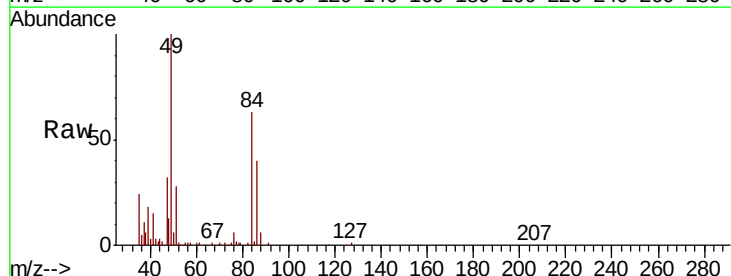
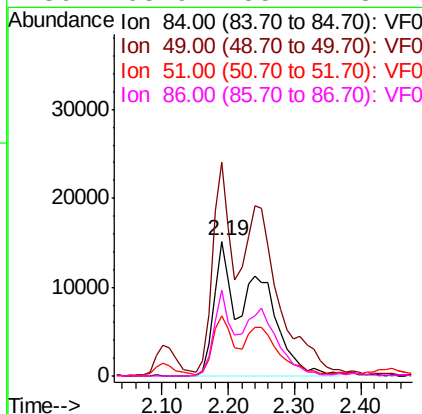
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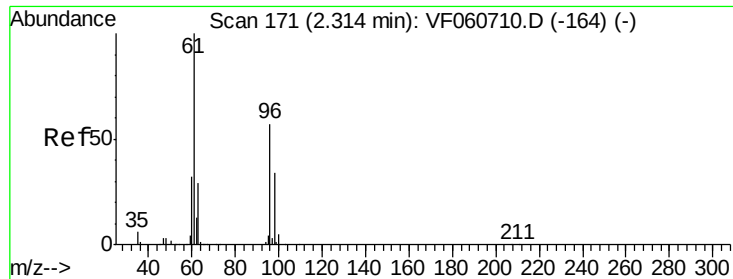


#20

Methylene Chloride
 Concen: 44.126 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. -0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
84	100		
49	158.2	120.2	180.4
51	44.4	37.2	55.8
86	63.9	55.1	82.7





#21

trans-1,2-Dichloroethene

Concen: 41.727 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

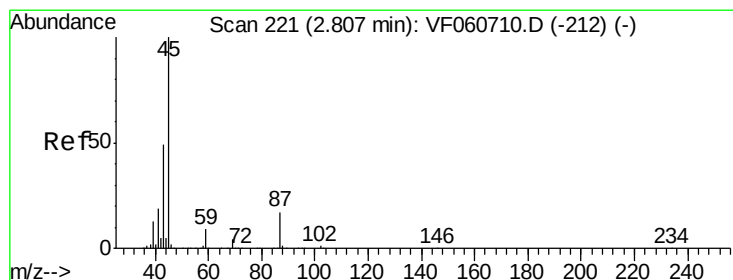
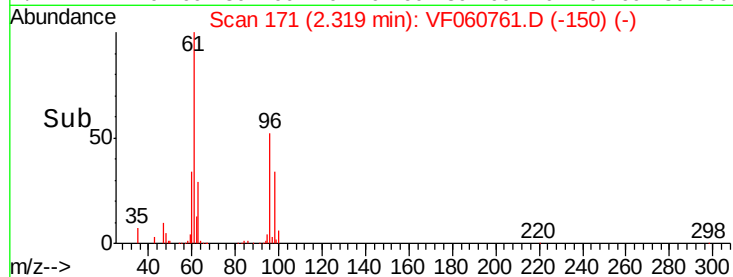
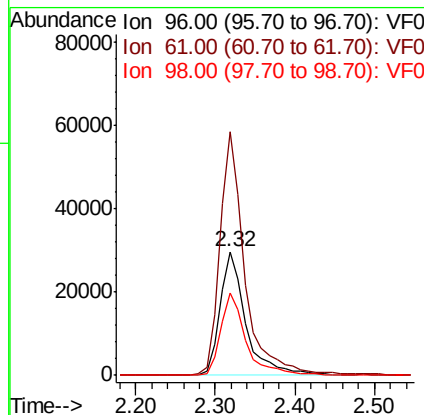
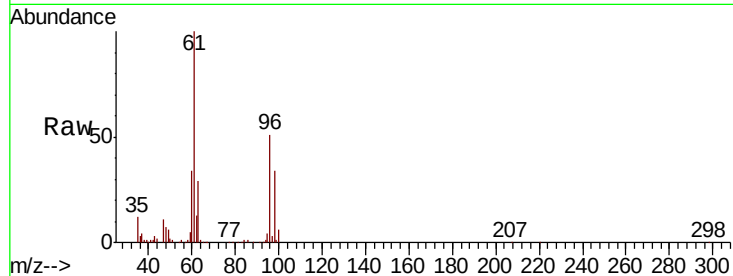
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	68241
Ion	Ratio	Lower	Upper
96	100		
61	196.8	141.6	212.4
98	66.3	47.4	71.0

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#22

Diisopropyl ether

Concen: 45.846 ug/l

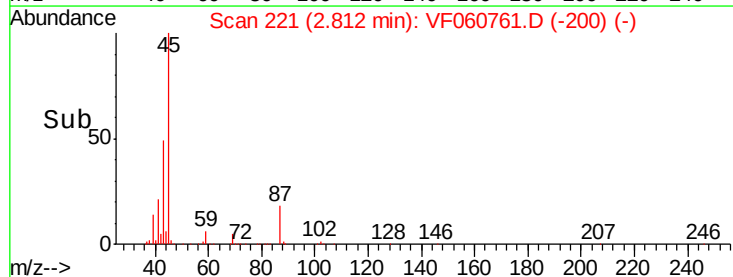
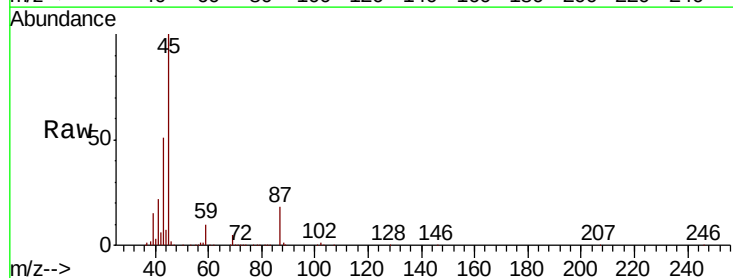
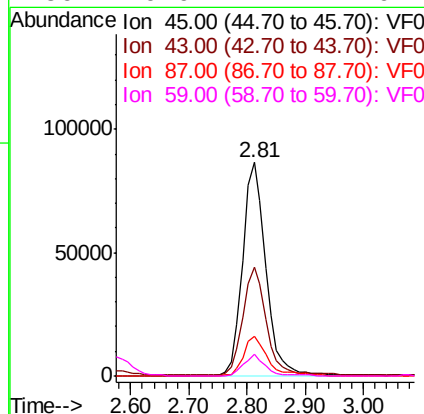
RT: 2.81 min Scan# 221

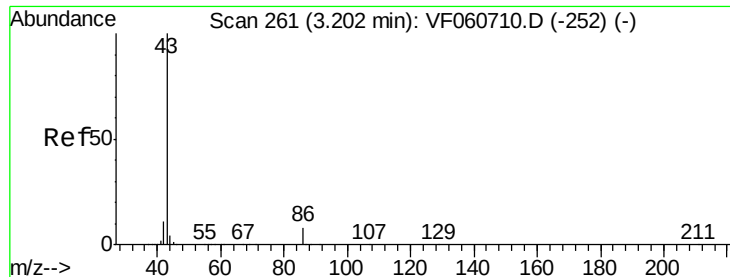
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	45	Resp:	242721
Ion	Ratio	Lower	Upper
45	100		
43	50.8	39.9	59.9
87	18.4	13.9	20.9
59	9.9	7.1	10.7





#23

Vinyl Acetate

Concen: 270.696 ug/l

RT: 3.21 min Scan# 261

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 674861

Ion Ratio Lower Upper

43 100

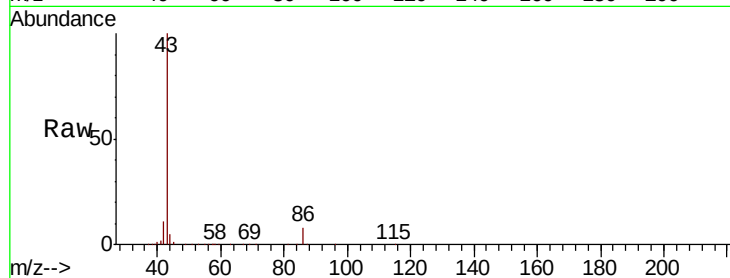
86 8.1 6.4 9.6

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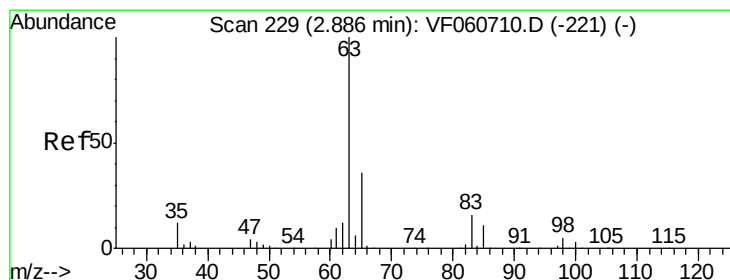
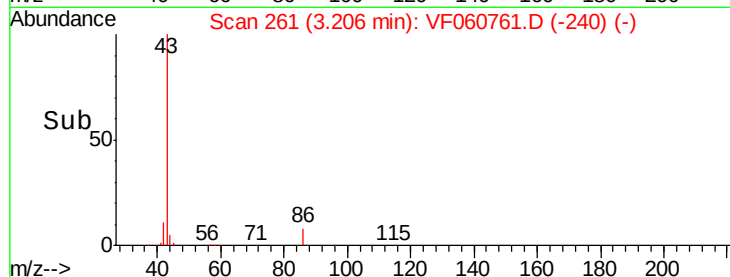
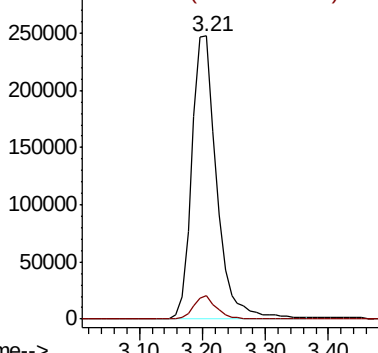
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 45.995 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

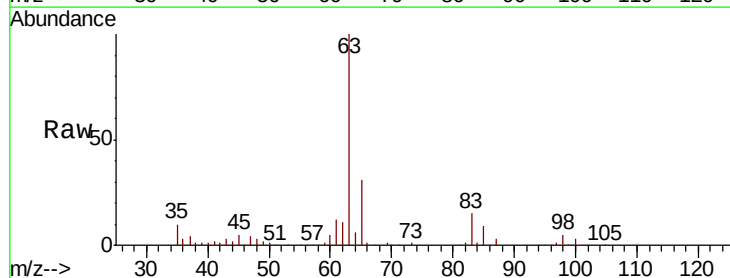
Tgt Ion: 63 Resp: 147424

Ion Ratio Lower Upper

63 100

98 5.1 2.4 7.1

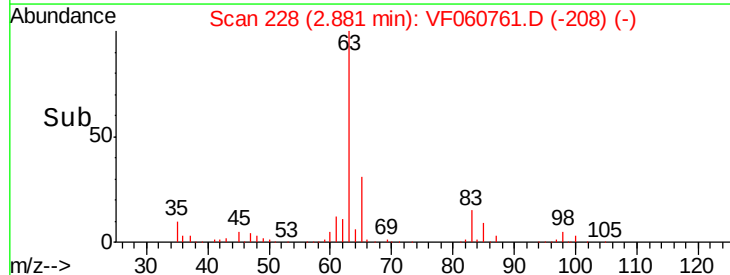
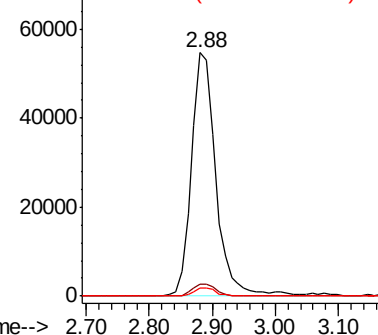
100 3.3 1.4 4.2

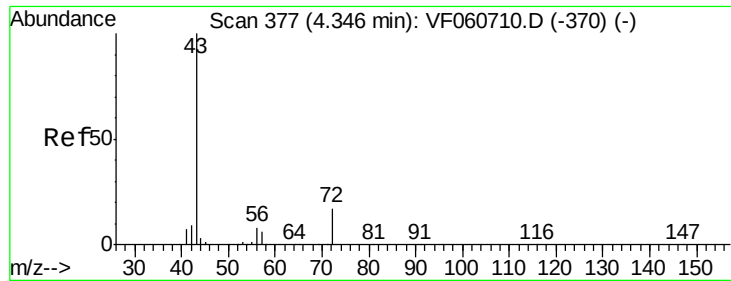


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 269.134 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 207071

Ion Ratio Lower Upper

43 100

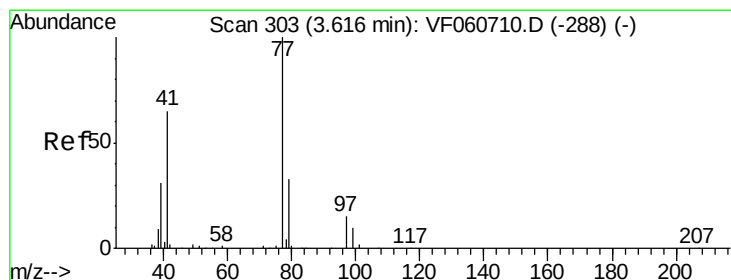
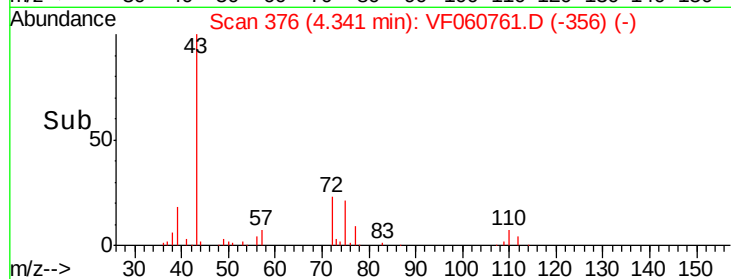
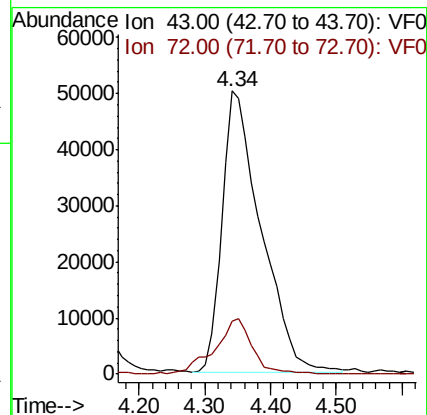
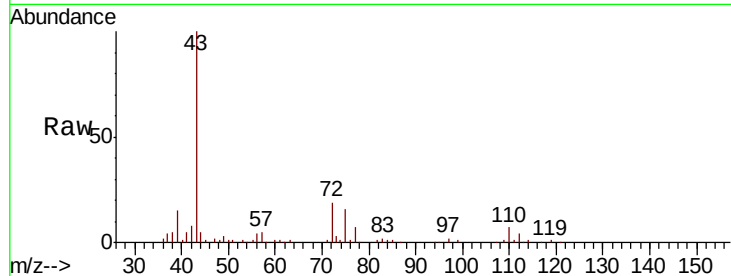
72 18.7 16.1 24.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 46.563 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF060761.D

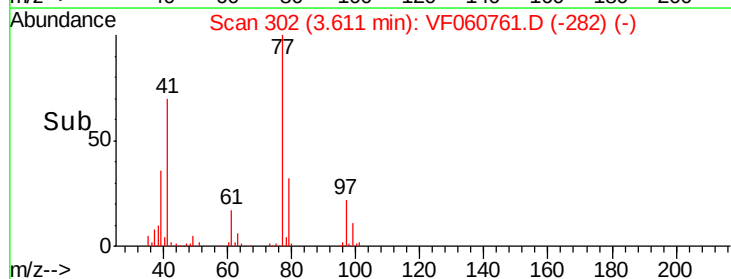
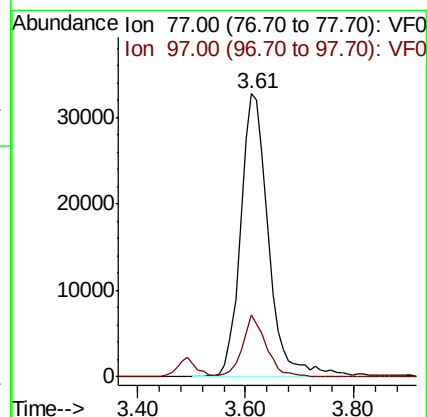
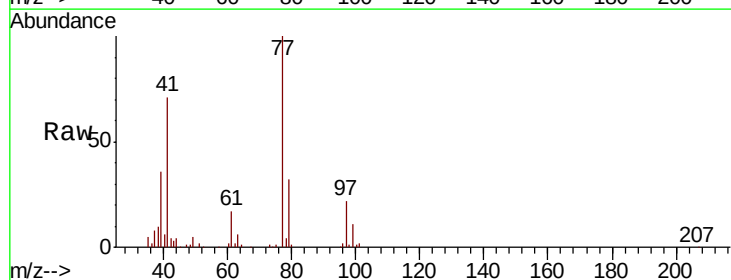
Acq: 16 Nov 2018 12:22

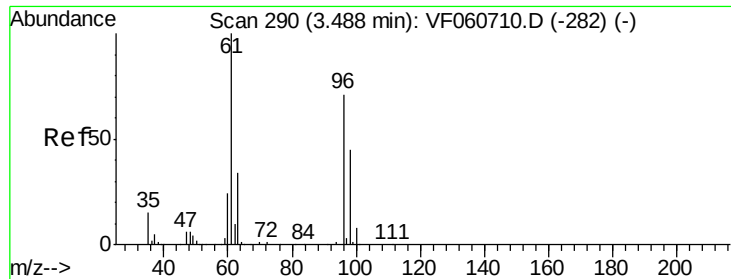
Tgt Ion: 77 Resp: 117445

Ion Ratio Lower Upper

77 100

97 21.9 8.8 26.5





#27

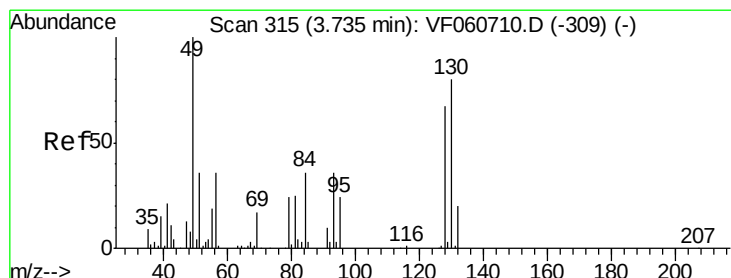
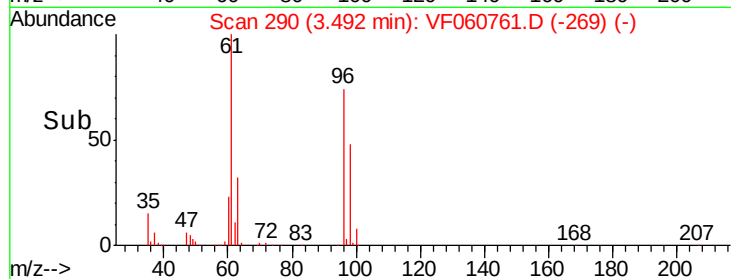
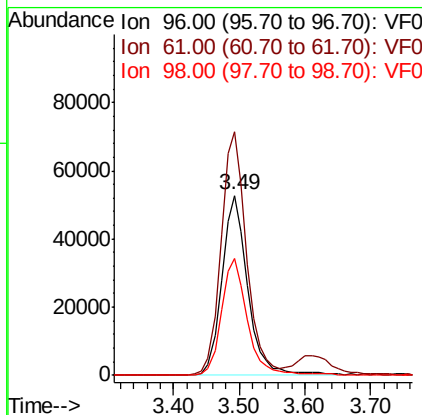
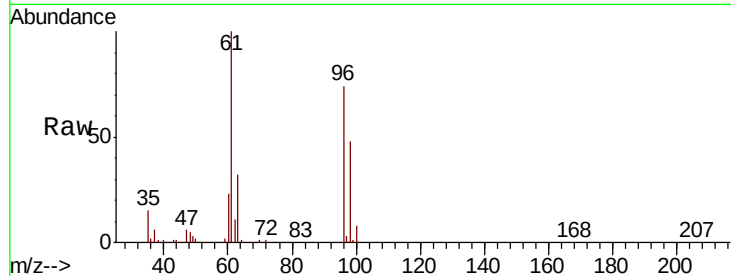
cis-1,2-Dichloroethene
 Concen: 52.231 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.2	0.0	280.6
98	65.0	0.0	127.6

Manual Integrations
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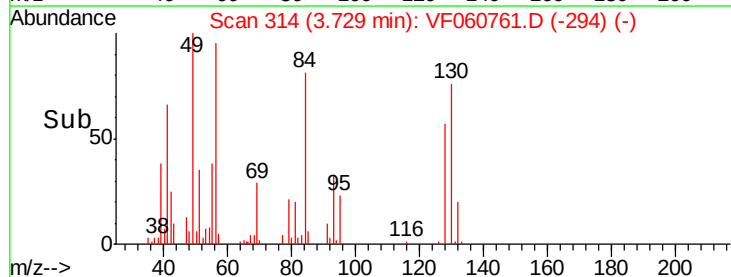
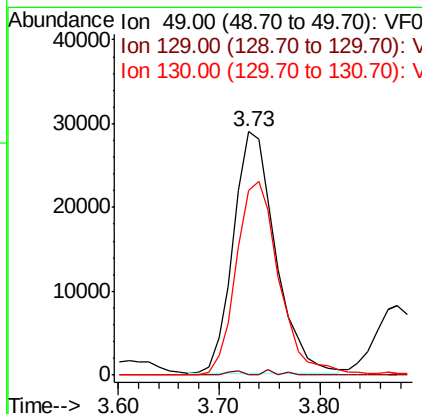
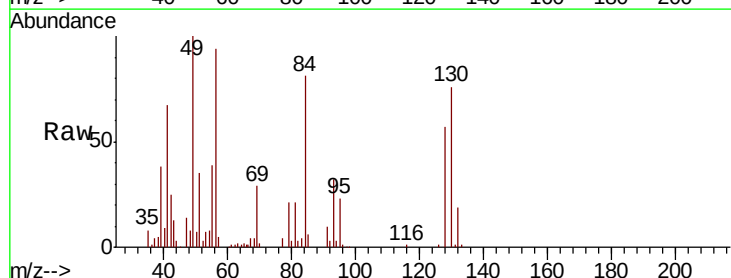
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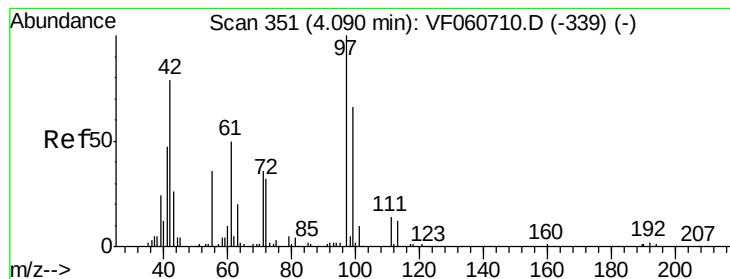


#28

Bromochloromethane
 Concen: 50.893 ug/l
 RT: 3.73 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.2
130	76.0	63.9	95.9





#29

Tetrahydrofuran

Concen: 270.828 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

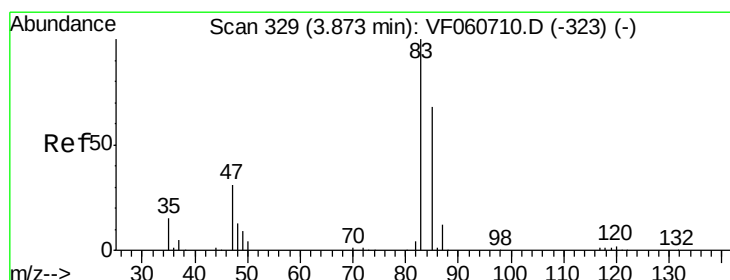
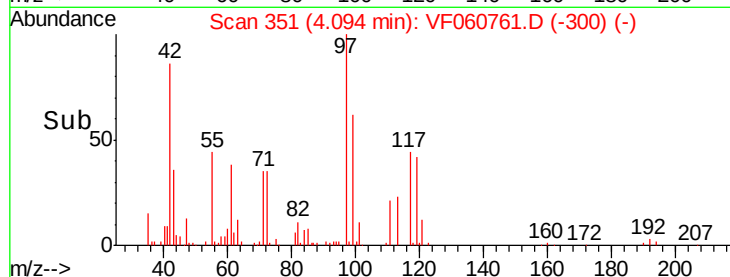
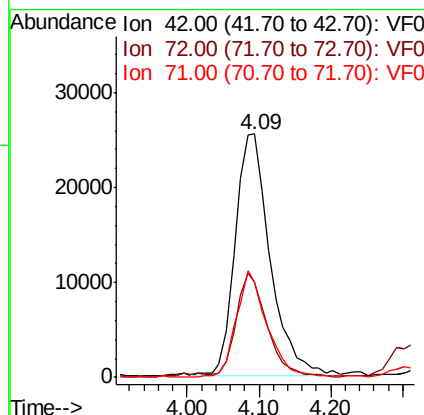
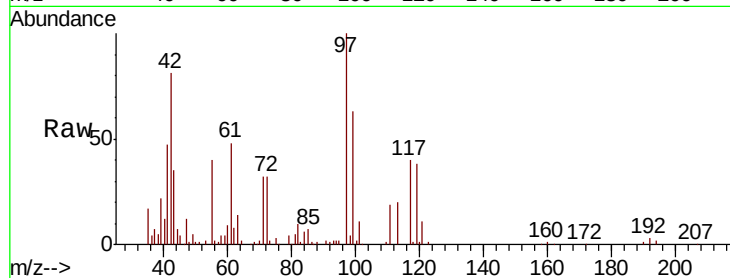
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	85951
Ion Ratio		Lower	Upper
42	100		
72	38.8	30.3	45.5
71	39.3	32.2	48.2

Manual Integrations
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#30

Chloroform

Concen: 48.452 ug/l

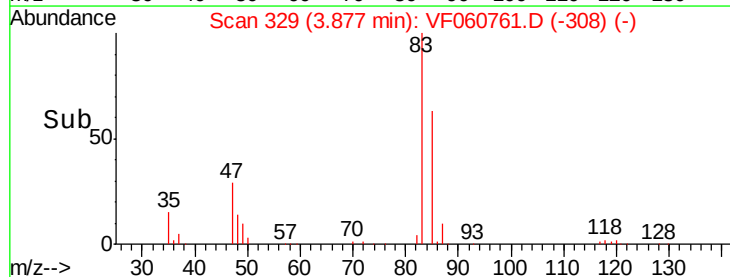
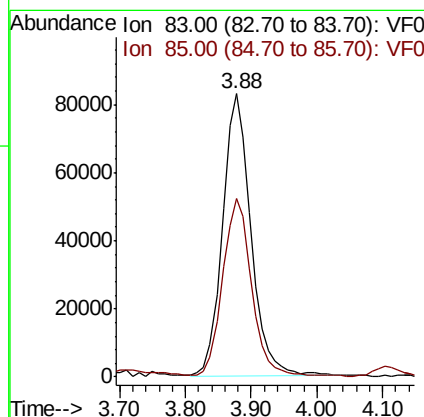
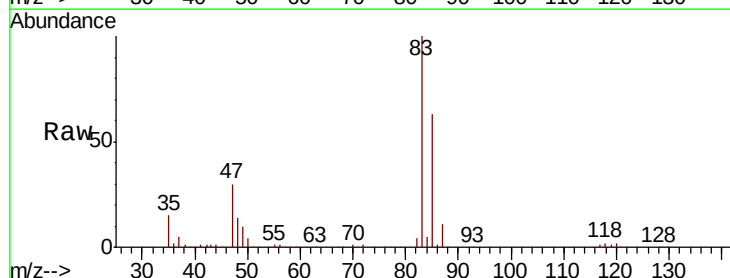
RT: 3.88 min Scan# 329

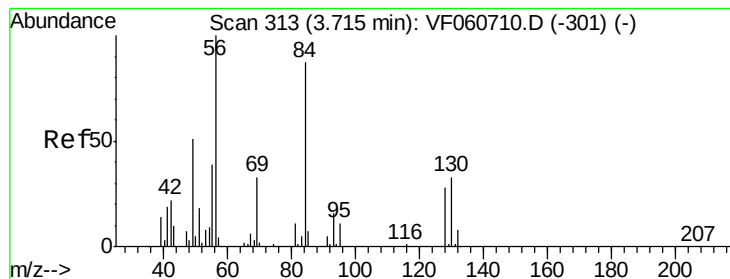
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	83	Resp:	249175
Ion Ratio		Lower	Upper
83	100		
85	63.1	54.6	82.0





#31

Cyclohexane

Concen: 51.673 ug/l

RT: 3.71 min Scan# 312

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

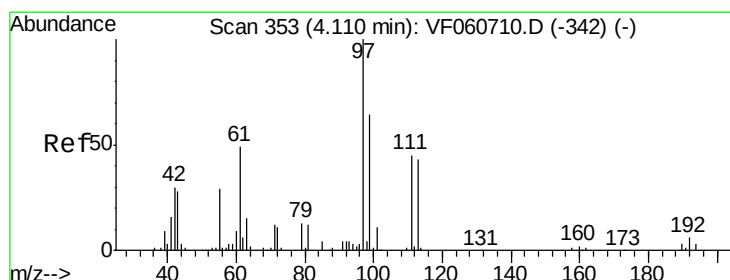
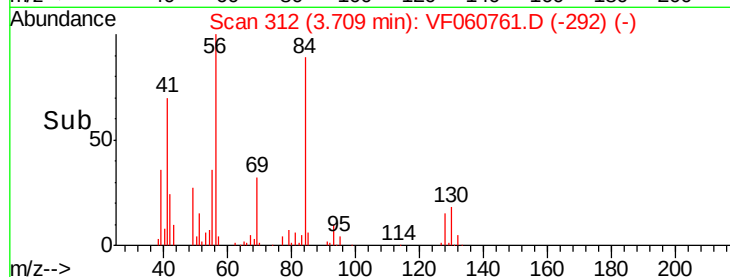
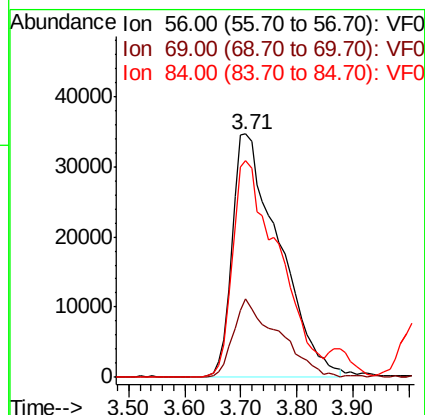
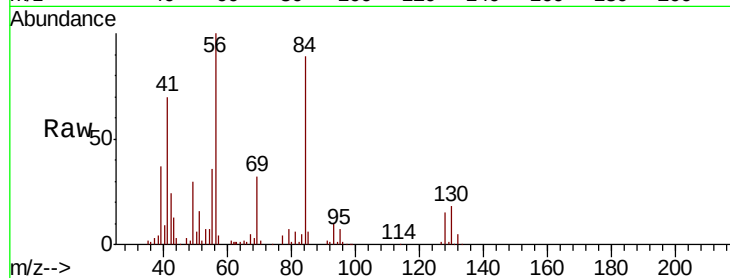
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	201017
Ion Ratio		Lower	Upper
56	100		
69	32.0	26.0	39.0
84	89.1	69.4	104.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 49.319 ug/l

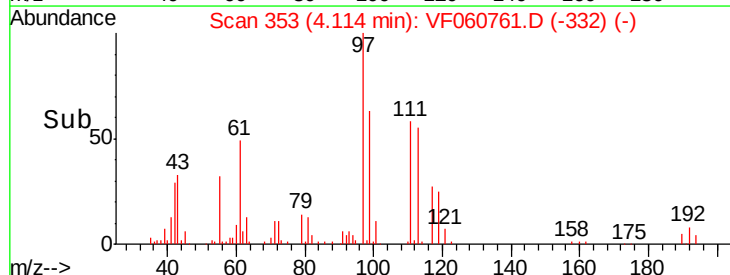
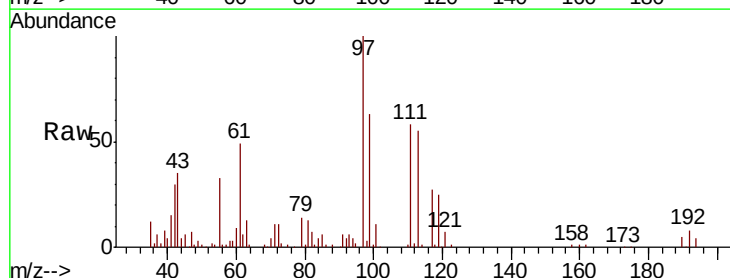
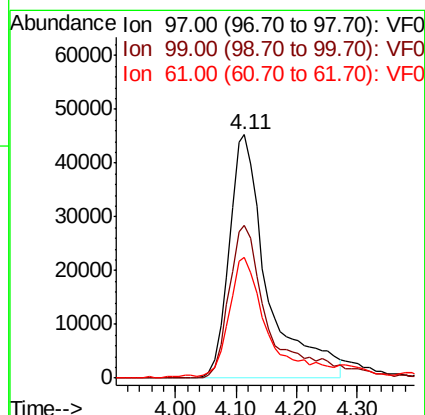
RT: 4.11 min Scan# 353

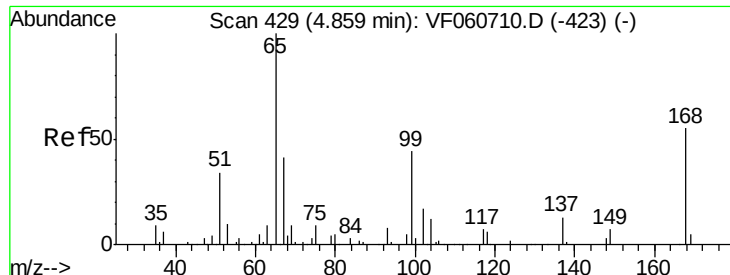
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	97	Resp:	199733
Ion Ratio		Lower	Upper
97	100		
99	62.9	51.1	76.7
61	49.4	40.1	60.1





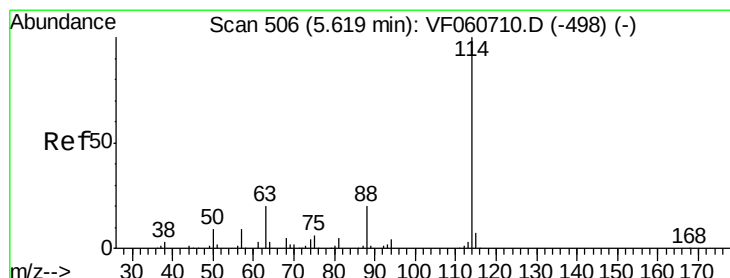
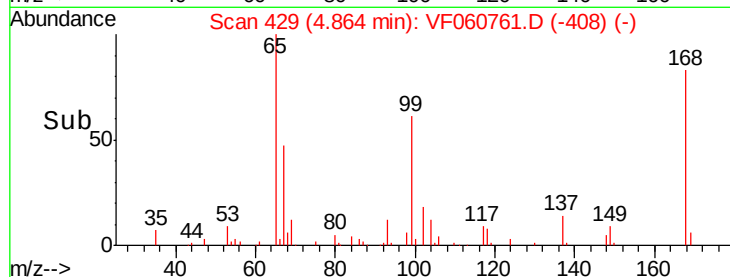
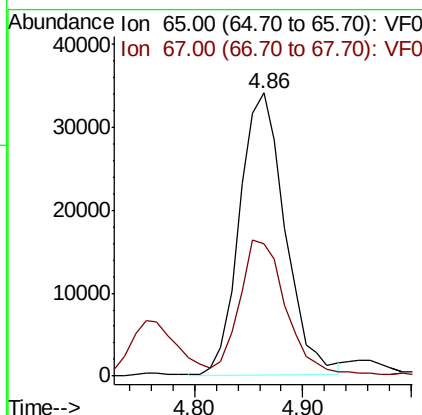
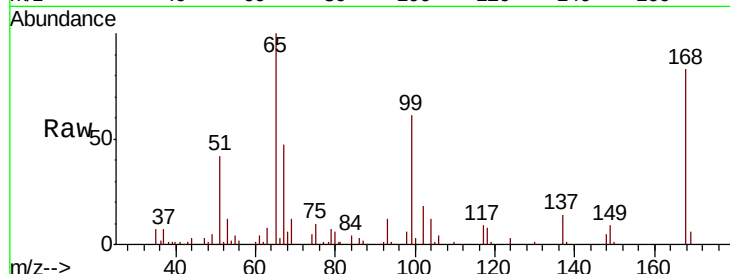
#33
 1,2-Dichloroethane-d4
 Concen: 45.361 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	99270		
67	46.8	0.0	90.2	

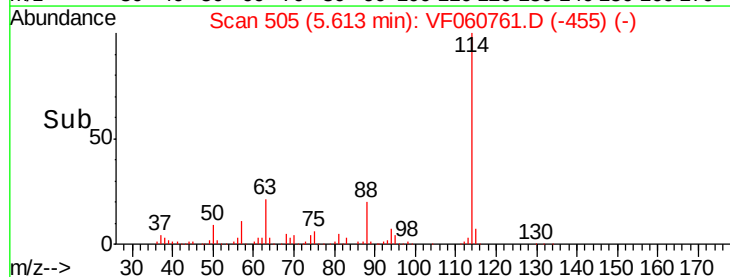
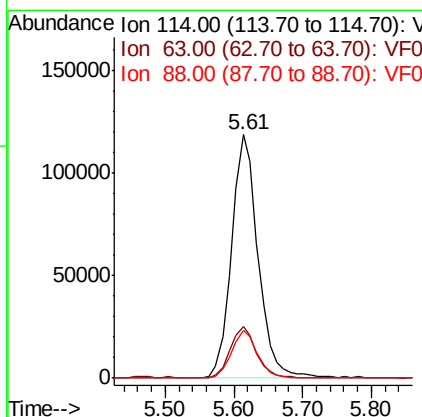
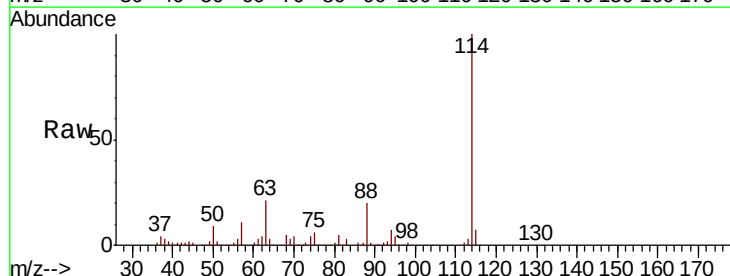
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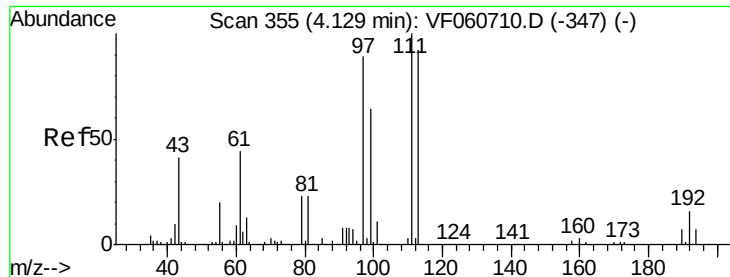
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.01 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	314256		
63	21.1	0.0	40.8	
88	19.7	0.0	39.6	





#35

Dibromofluoromethane

Concen: 49.244 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

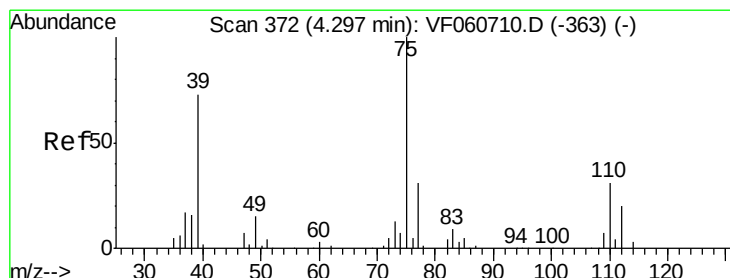
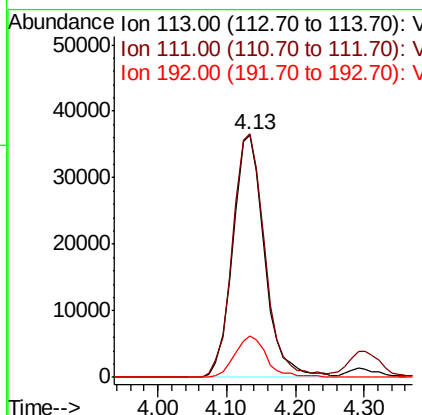
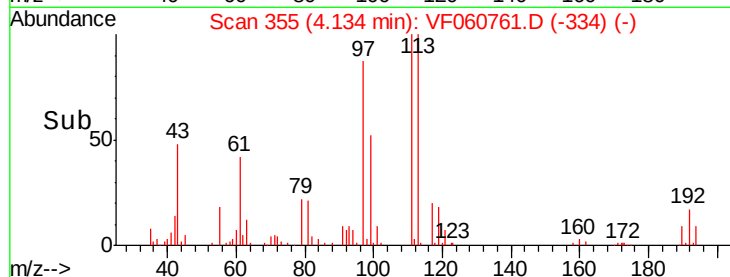
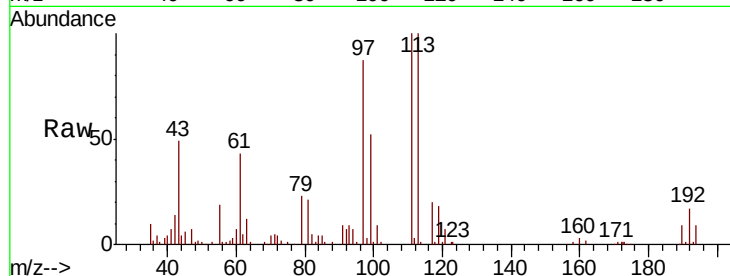
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	116325
Ion Ratio	Lower	Upper	
113	100		
111	100.4	87.1	130.7
192	16.9	13.8	20.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 51.974 ug/l

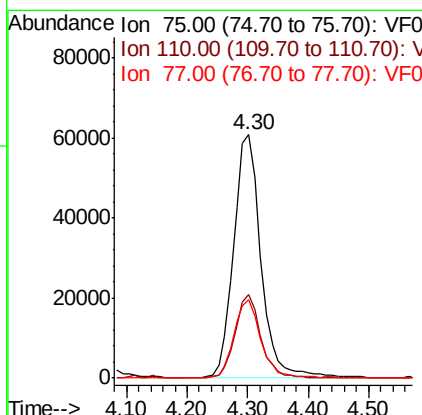
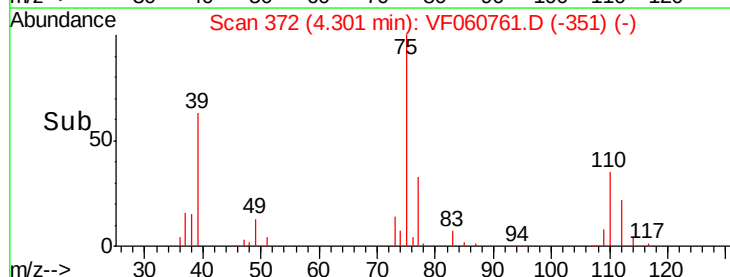
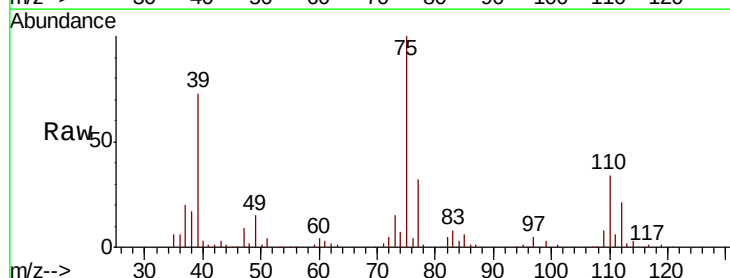
RT: 4.30 min Scan# 372

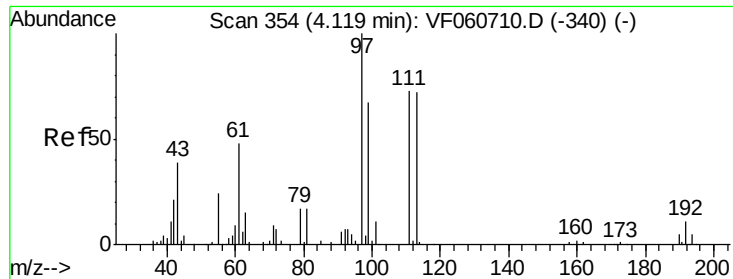
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	75	Resp:	189425
Ion Ratio	Lower	Upper	
75	100		
110	34.3	15.6	46.8
77	32.3	25.0	37.6





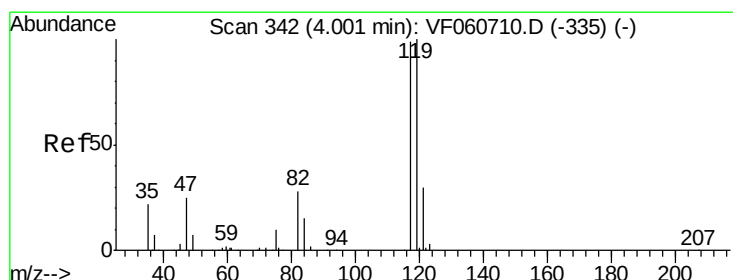
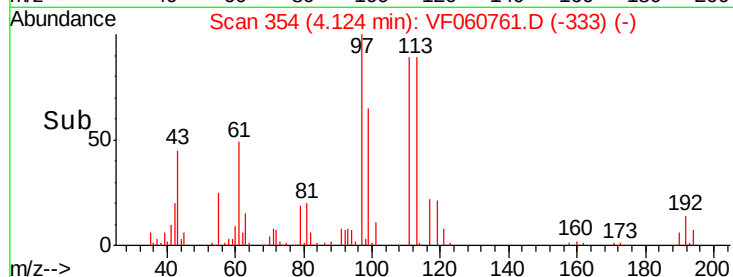
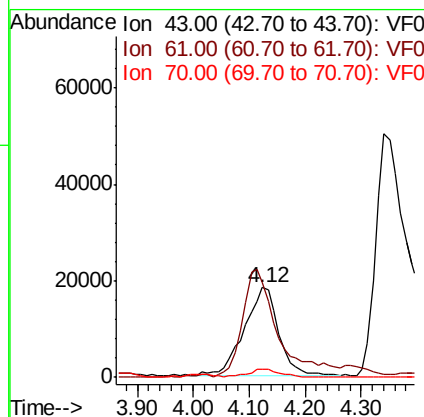
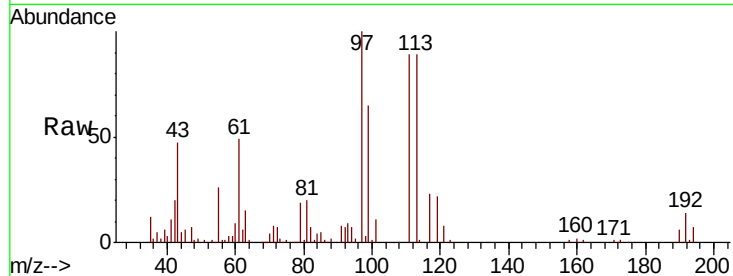
#37
Ethyl Acetate
Concen: 56.175 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	105.8	98.5			147.7	
70	9.5	7.4			11.0	

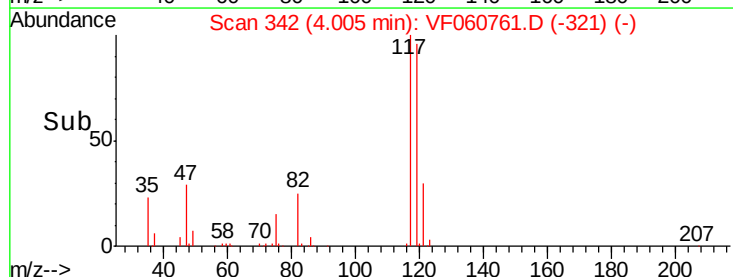
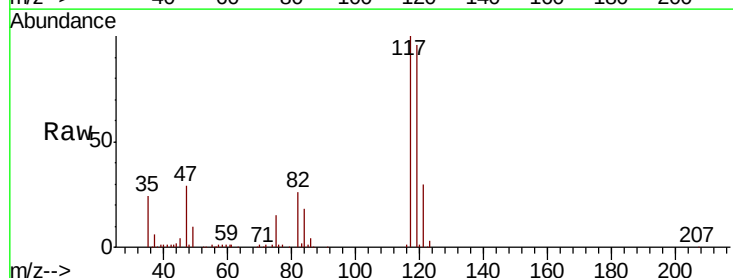
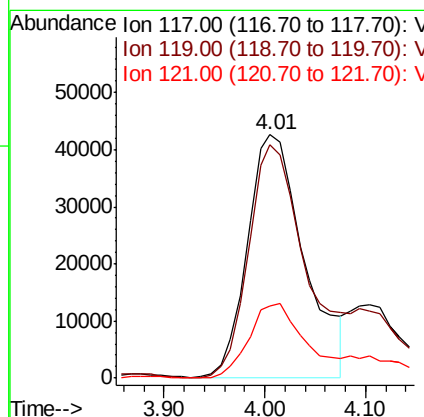
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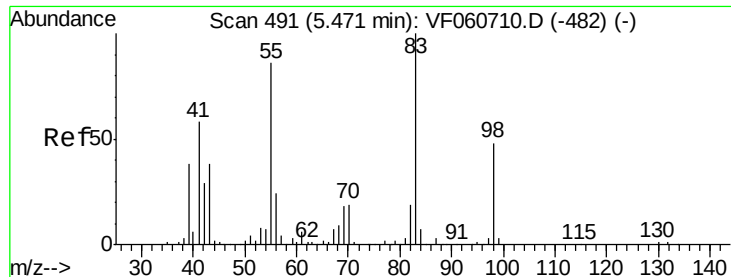
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#38
Carbon Tetrachloride
Concen: 47.059 ug/l
RT: 4.01 min Scan# 342
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	95.9	80.7			121.1	
121	29.6	24.3			36.5	





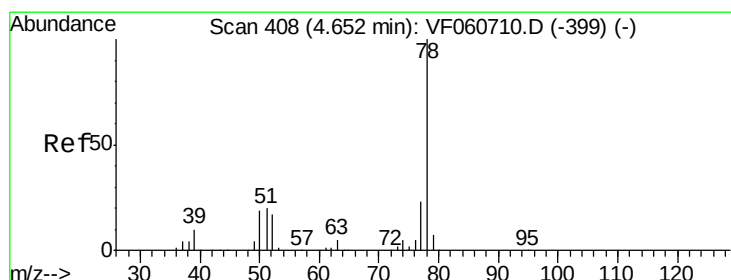
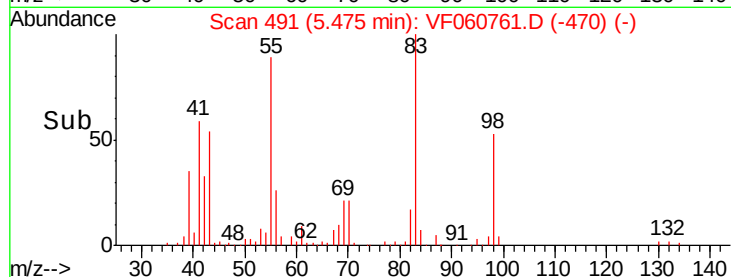
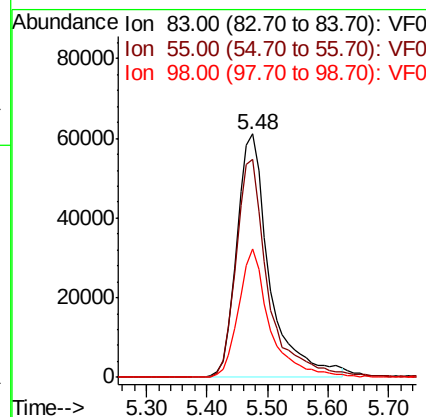
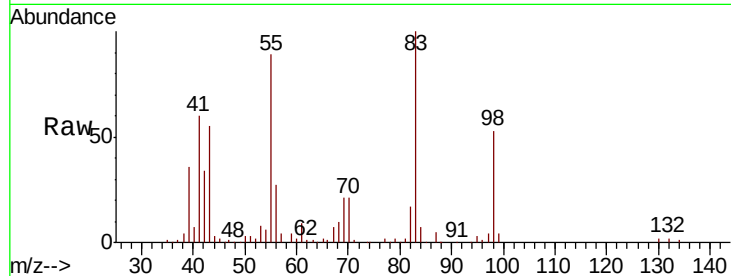
#39
Methylvlcyclohexane
Concen: 54.490 ug/l
RT: 5.48 min Scan# 491
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	230401
Ion Ratio	Lower	Upper	
83	100		
55	89.3	69.0	103.4
98	52.5	38.5	57.7

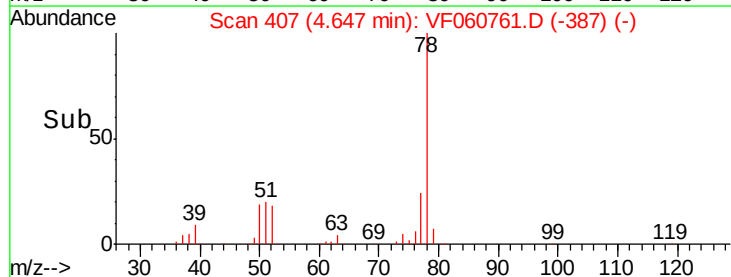
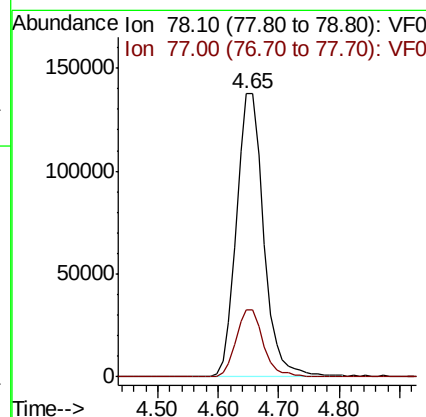
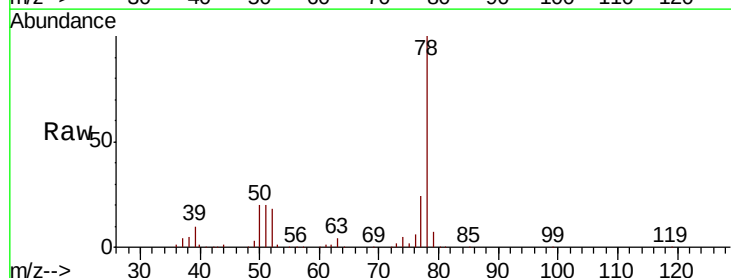
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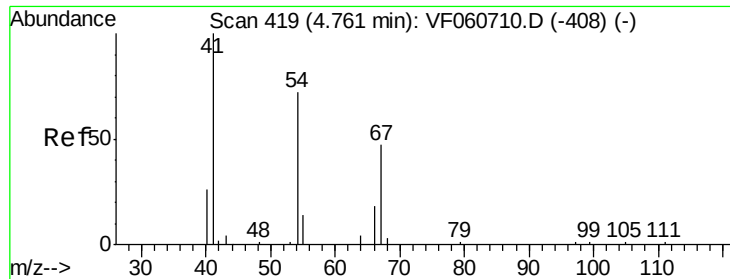
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#40
Benzene
Concen: 53.294 ug/l
RT: 4.65 min Scan# 407
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	78	Resp	432975
Ion Ratio	Lower	Upper	
78	100		
77	23.9	18.6	28.0





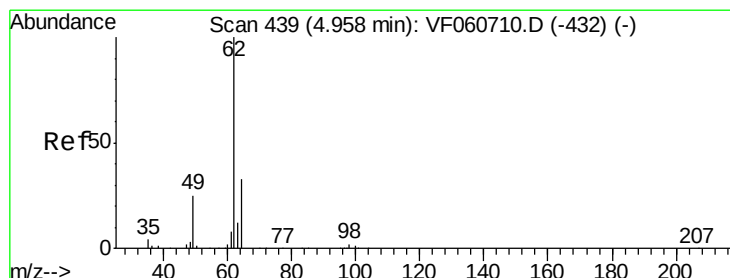
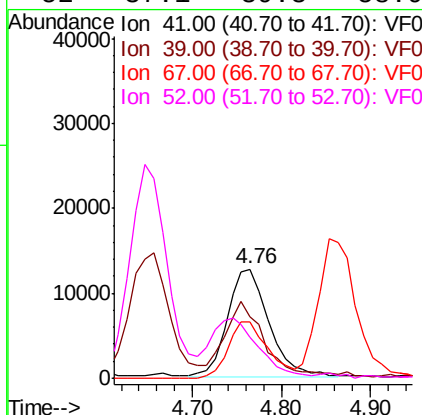
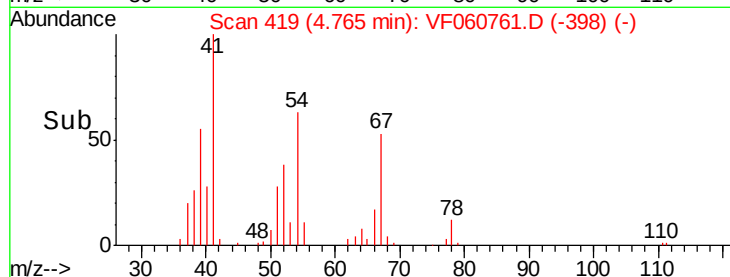
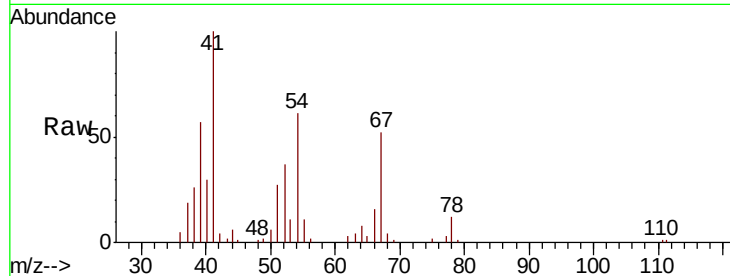
#41
Methacrylonitrile
Concen: 57.295 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	41	Resp:	40935
Ion	Ratio	Lower	Upper
41	100		
39	56.8	47.1	70.7
67	51.6	37.1	55.7
52	37.1	39.3	58.9

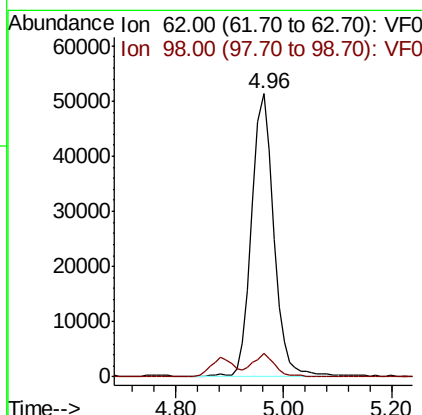
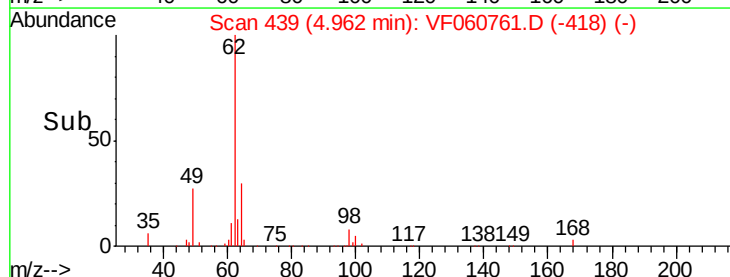
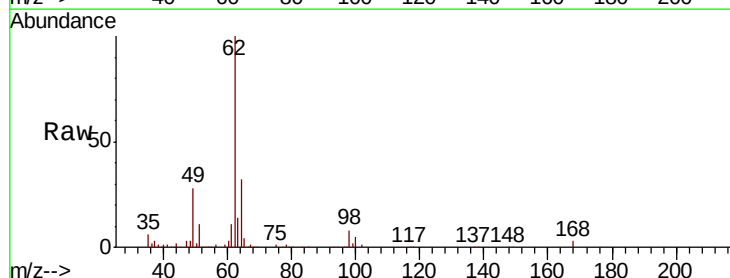
Manual Integrations
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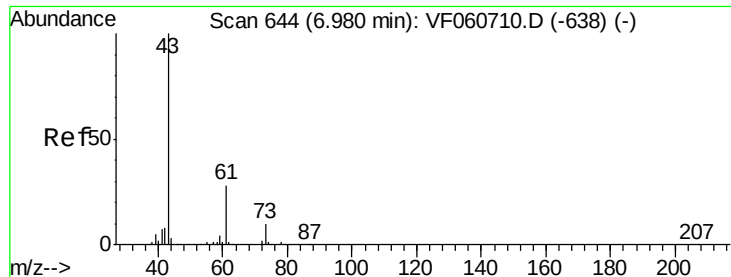
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11/19/2018 12:33:00 PM



#42
1,2-Dichloroethane
Concen: 52.512 ug/l
RT: 4.96 min Scan# 439
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion:	62	Resp:	147430
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	16.6





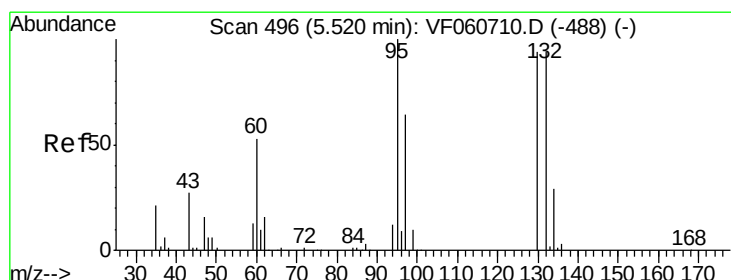
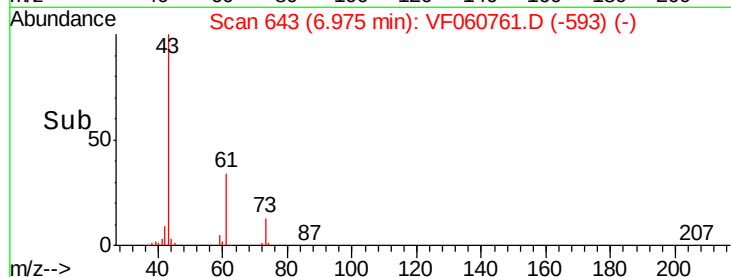
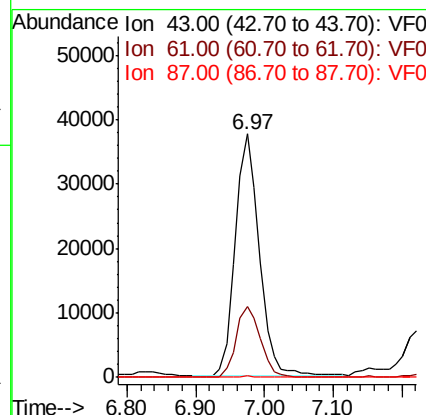
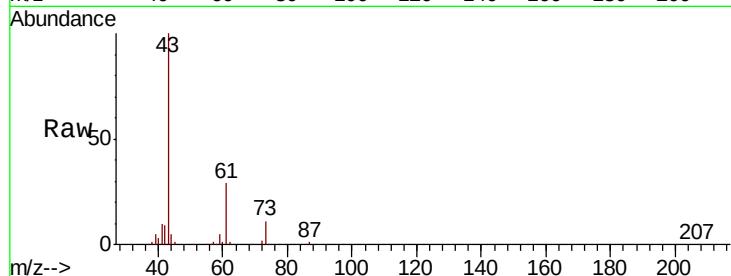
#43
Isopropyl Acetate
Concen: 50.666 ug/l
RT: 6.97 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.3	22.2	33.4
87	0.7	0.4	0.6

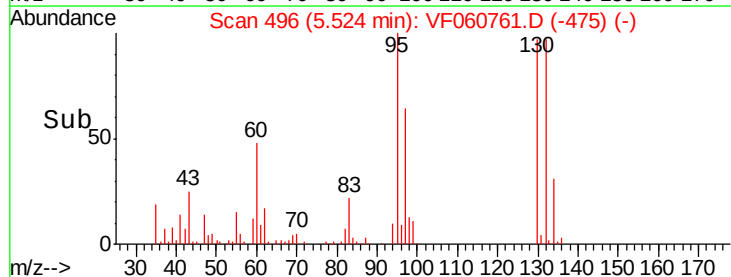
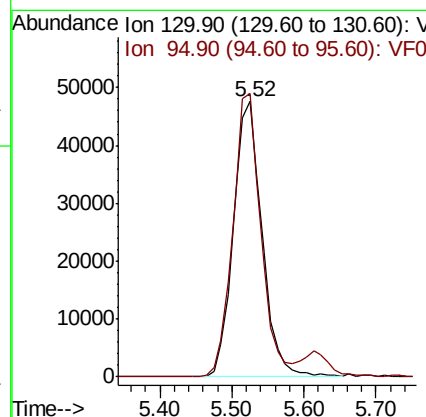
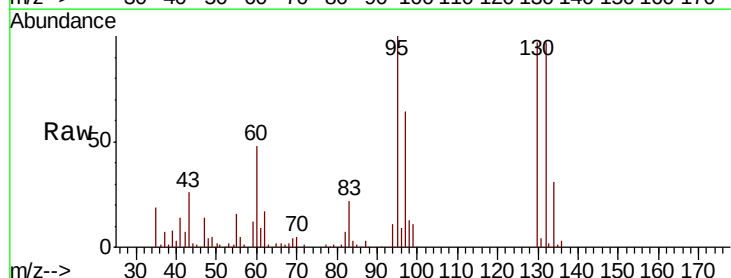
Manual Integrations
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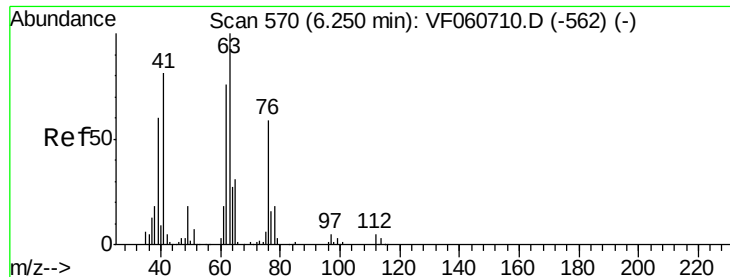
apatel
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#44
Trichloroethene
Concen: 51.475 ug/l
RT: 5.52 min Scan# 496
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.7	0.0	212.6





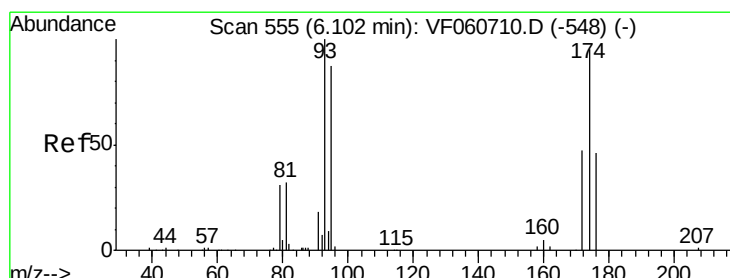
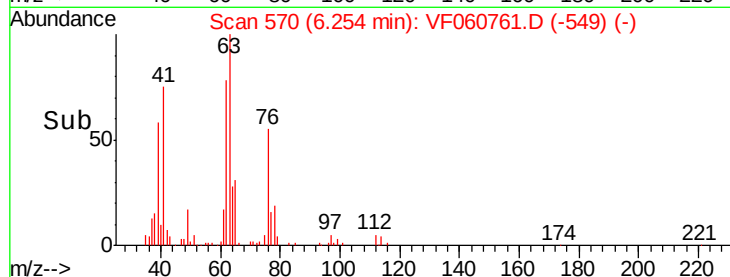
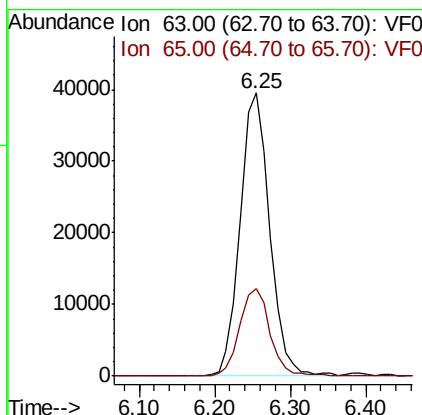
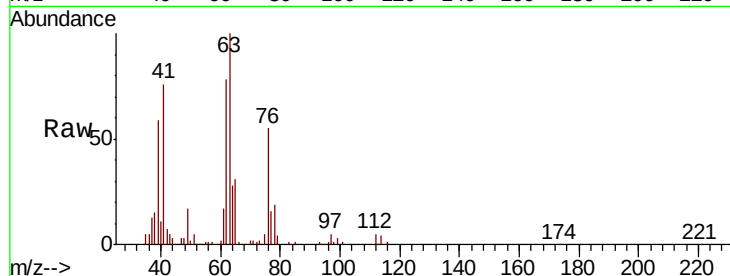
#45
 1,2-Dichloropropane
 Concen: 50.839 ug/l
 RT: 6.25 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 107478
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.6 36.8

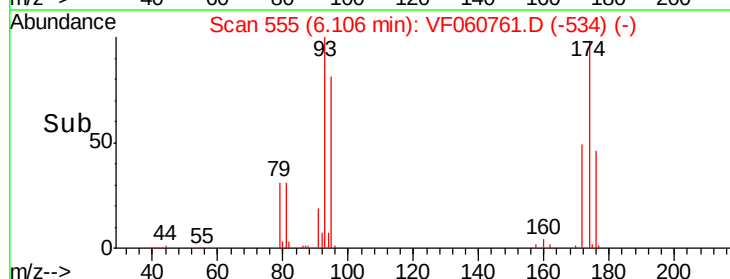
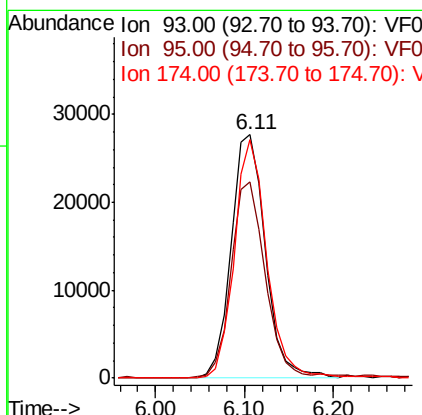
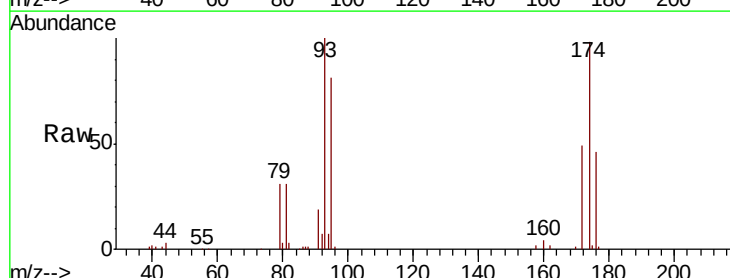
Manual Integrations
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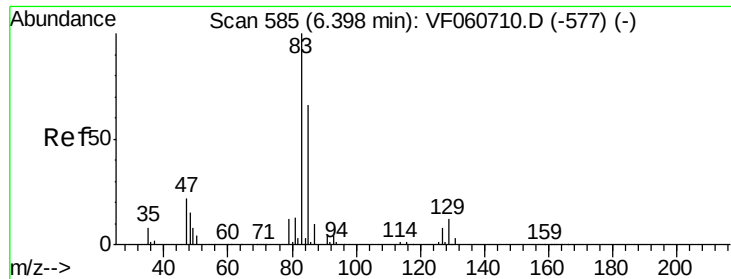
apatel
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#46
 Dibromomethane
 Concen: 53.388 ug/l
 RT: 6.11 min Scan# 555
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion: 93 Resp: 74505
 Ion Ratio Lower Upper
 93 100
 95 80.7 69.5 104.3
 174 100.0 76.2 114.2





#47

Bromodichloromethane

Concen: 49.798 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

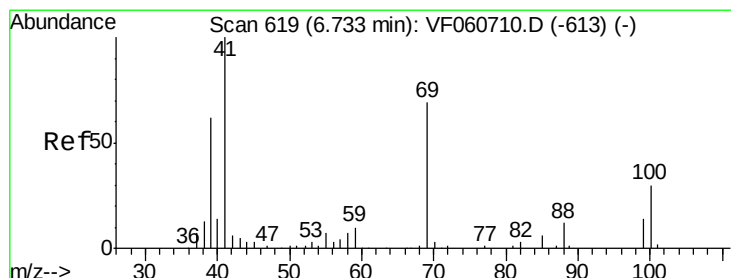
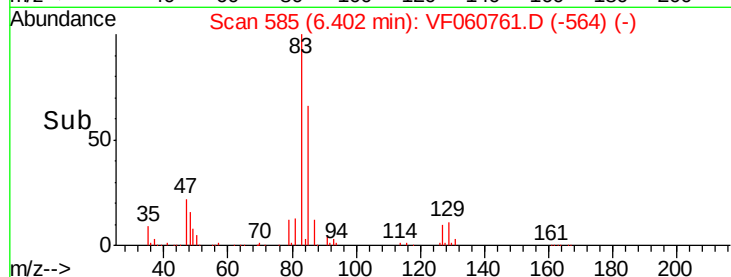
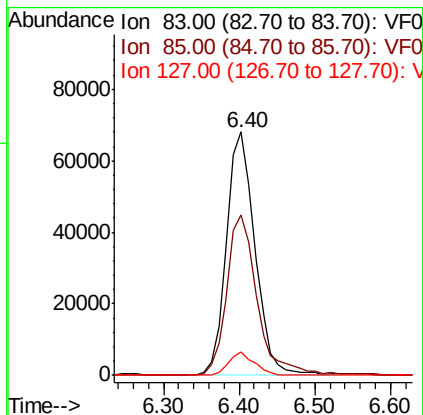
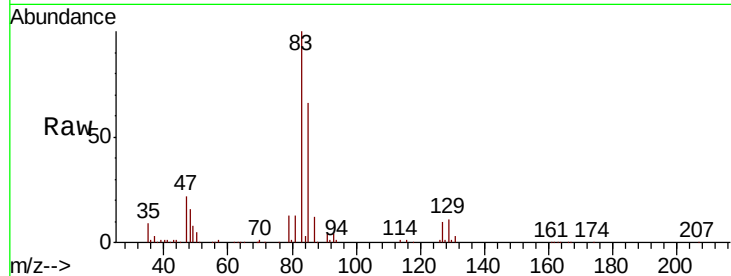
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	177464
Ion Ratio	Lower	Upper	
83	100		
85	65.8	52.4	78.6
127	9.6	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 51.469 ug/l

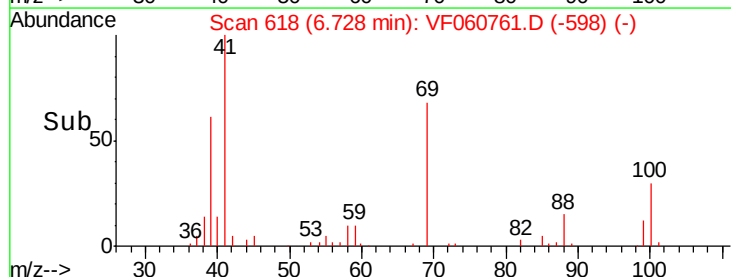
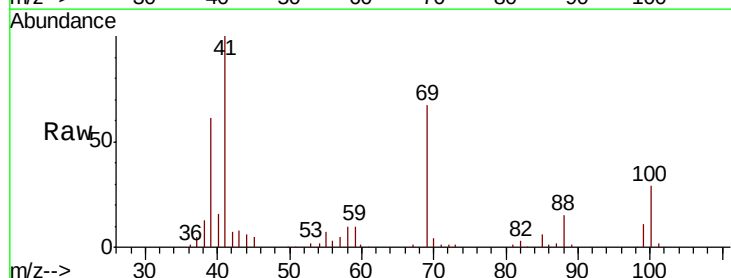
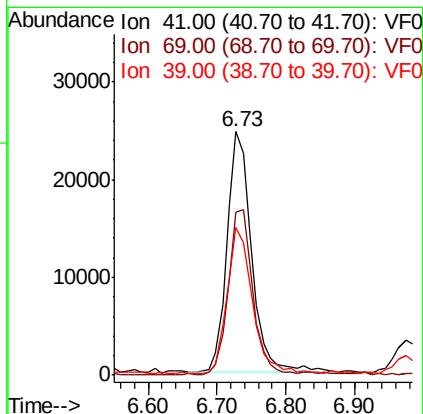
RT: 6.73 min Scan# 618

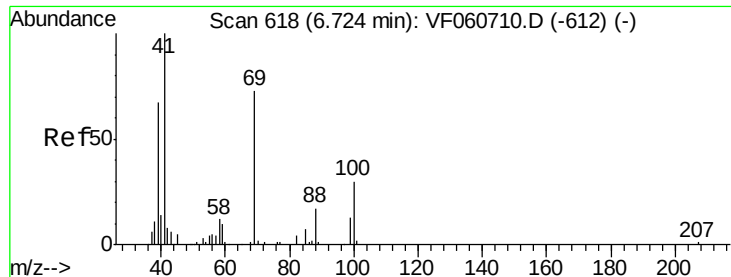
Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	41	Resp:	61196
Ion Ratio	Lower	Upper	
41	100		
69	66.7	54.9	82.3
39	60.6	49.6	74.4





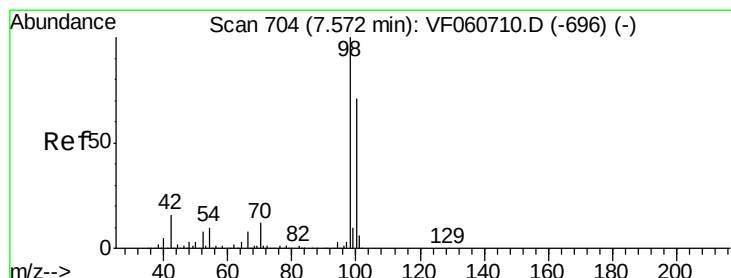
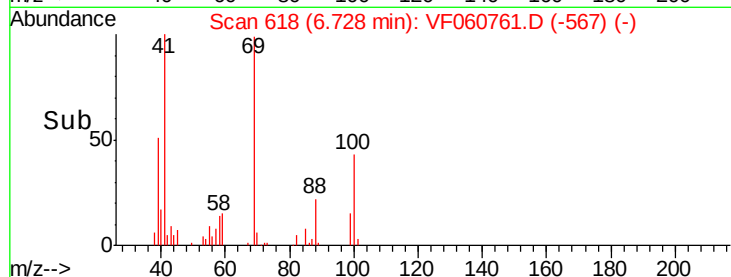
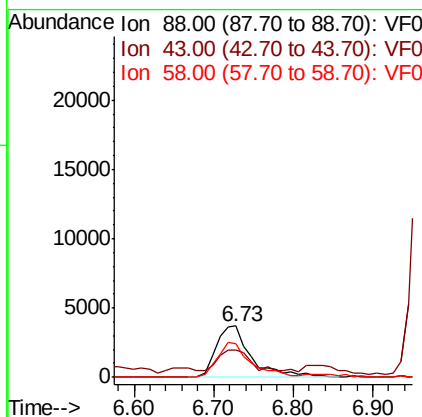
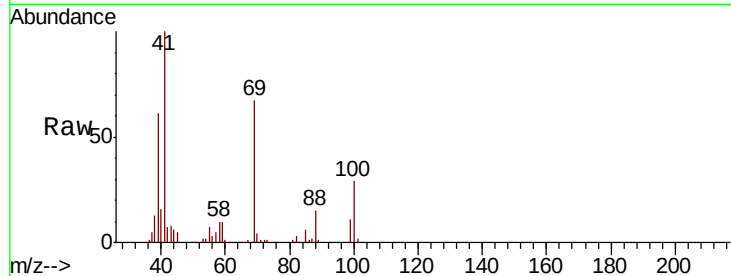
#49
1,4-Dioxane
Concen: 1034.814 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	54.1	44.6	66.8
58	65.5	54.5	81.7

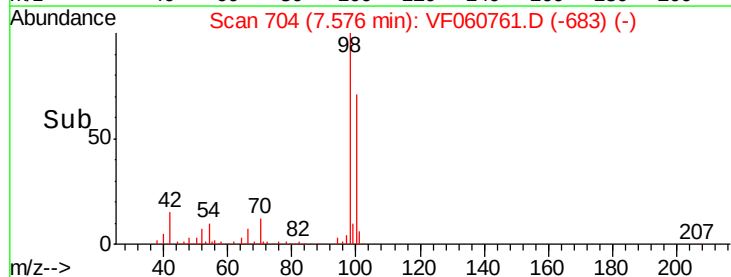
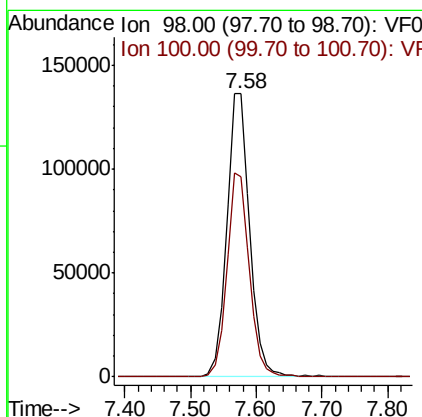
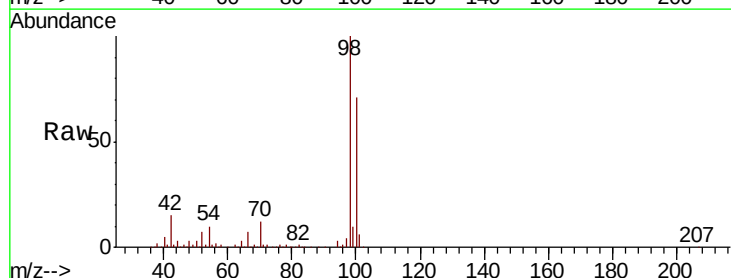
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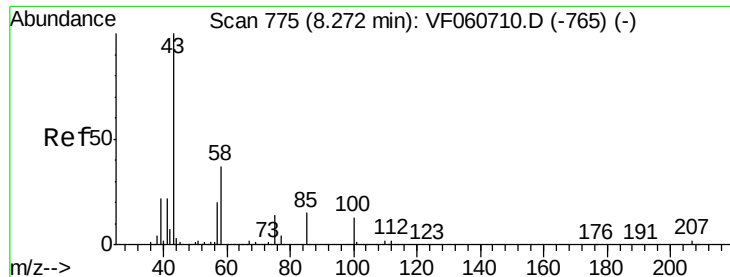
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11/19/2018 12:33:00 PM



#50
Toluene-d8
Concen: 55.241 ug/l
RT: 7.58 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.5	56.5	84.7





#51

4-Methyl-2-Pentanone

Concen: 268.728 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 349172

Ion Ratio Lower Upper

43 100

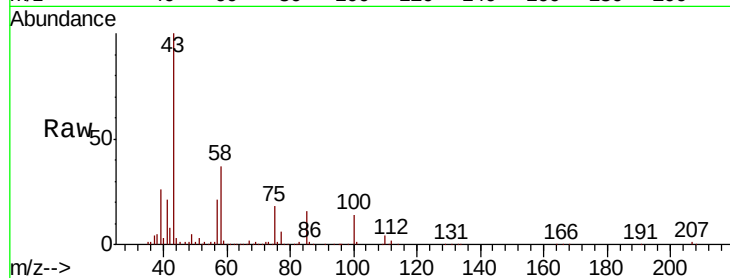
58 37.3 29.2 43.8

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

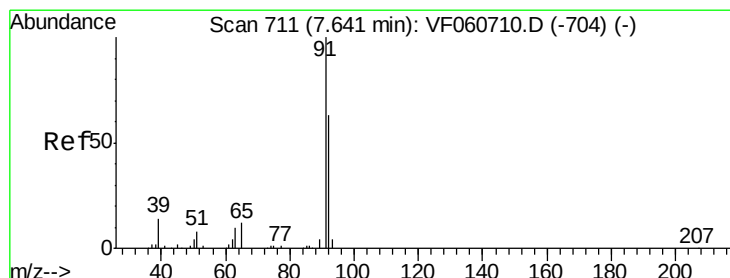
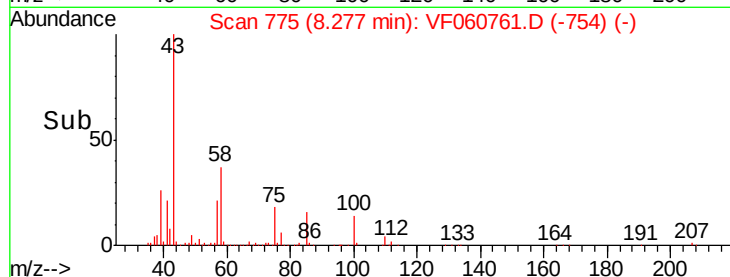
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 50.375 ug/l

RT: 7.65 min Scan# 711

Delta R.T. 0.00 min

Lab File: VF060761.D

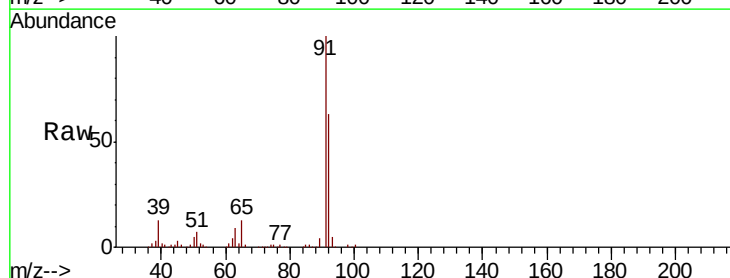
Acq: 16 Nov 2018 12:22

Tgt Ion: 92 Resp: 274258

Ion Ratio Lower Upper

92 100

91 159.7 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

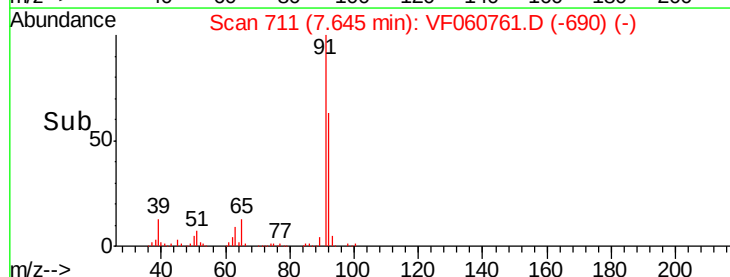
100000

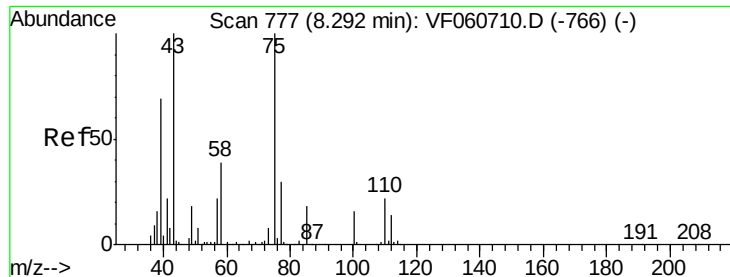
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 50.299 ug/l

RT: 8.30 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.6	36.8

Instrument :

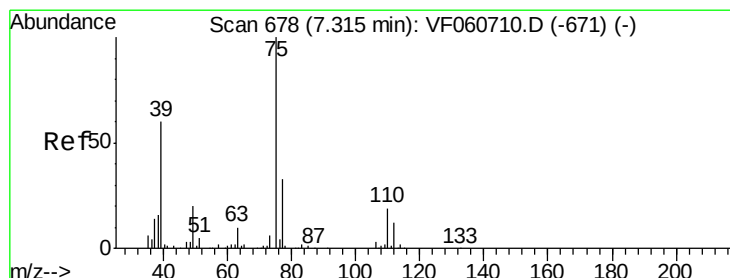
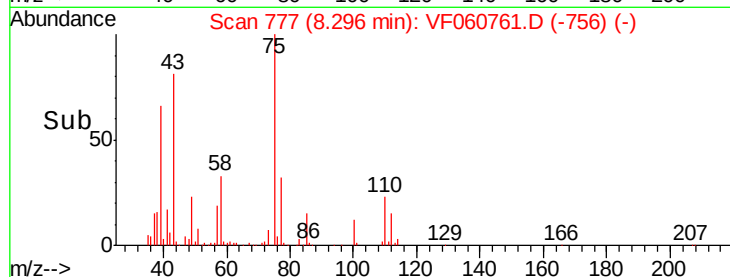
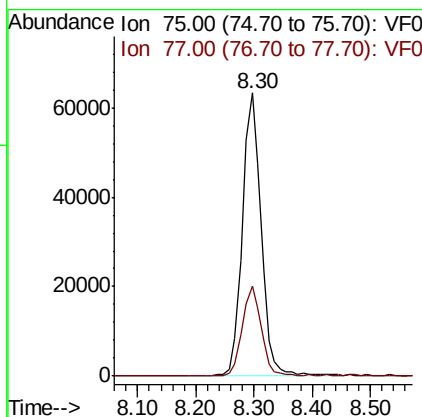
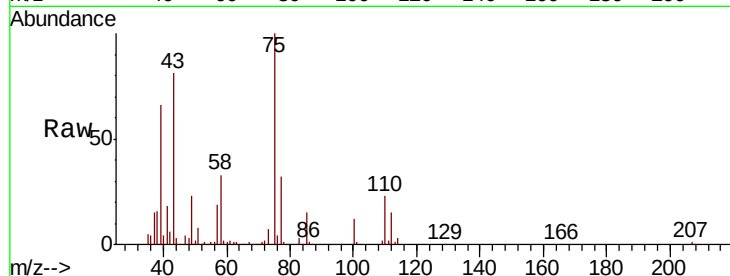
MSVOA_F

ClientSampleId :

VSTDCCC050

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#54

cis-1,3-Dichloropropene

Concen: 49.723 ug/l

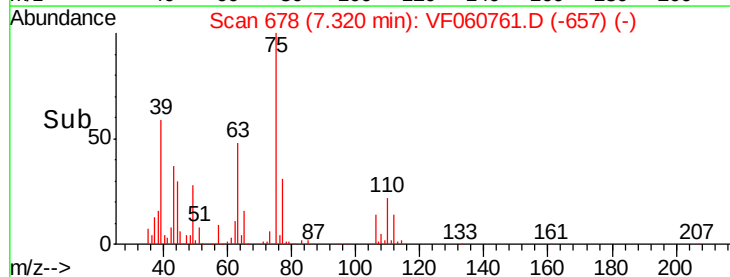
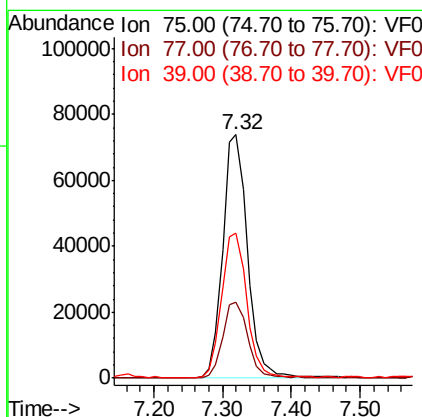
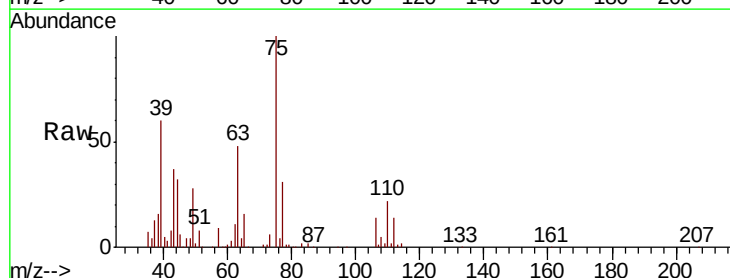
RT: 7.32 min Scan# 678

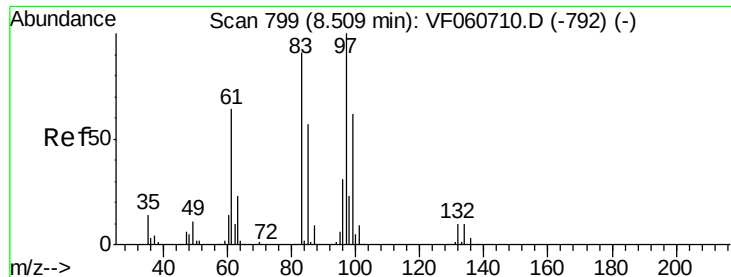
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.5	39.7
39	59.6	48.5	72.7





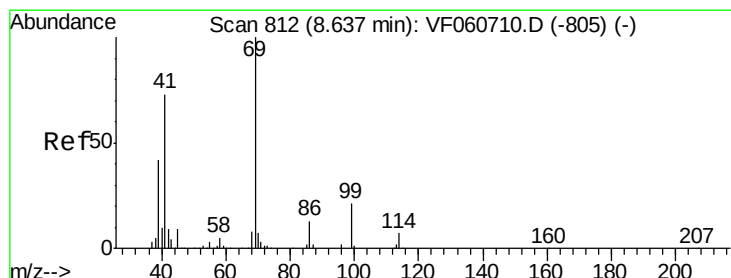
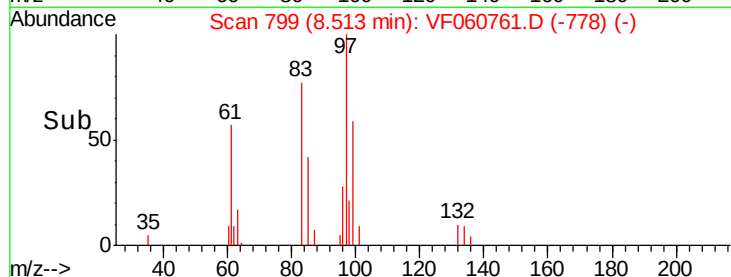
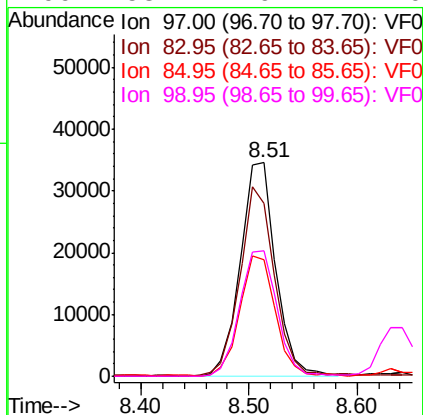
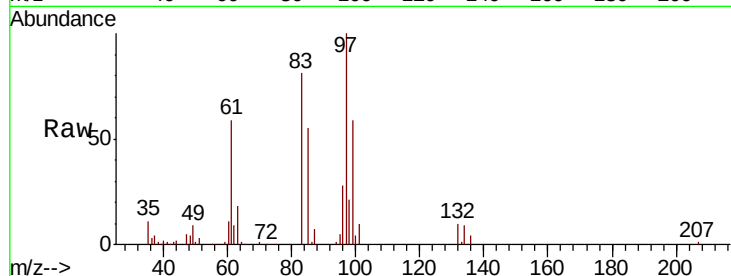
#55
 1,1,2-Trichloroethane
 Concen: 50.843 ug/l
 RT: 8.51 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	79089
Ion	Ratio	Lower	Upper
97	100		
83	80.7	72.8	109.2
85	54.8	45.8	68.6
99	58.7	49.4	74.0

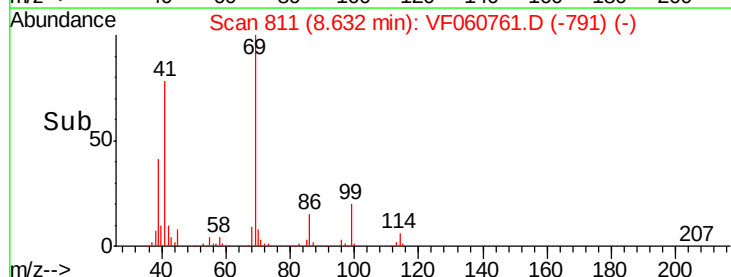
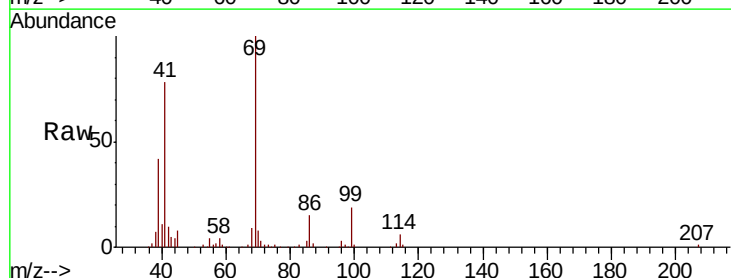
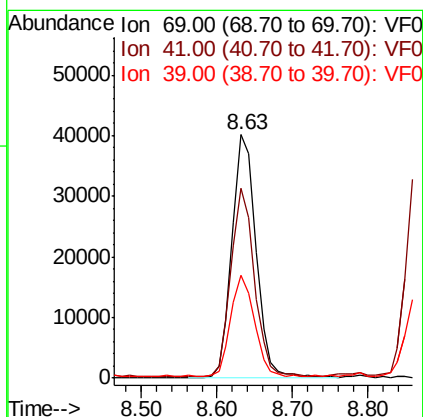
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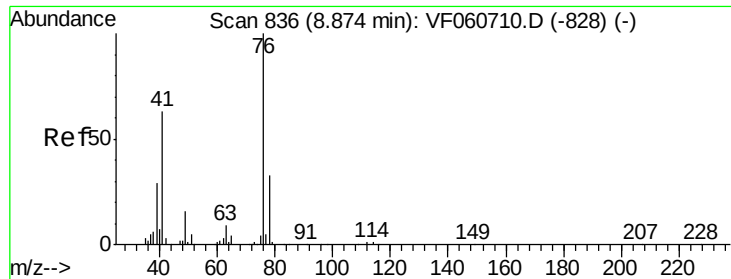
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#56
 Ethyl methacrylate
 Concen: 50.346 ug/l
 RT: 8.63 min Scan# 811
 Delta R.T. -0.01 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion:	69	Resp:	88943
Ion	Ratio	Lower	Upper
69	100		
41	78.2	59.0	88.6
39	42.0	34.0	51.0





#57

1,3-Dichloropropane

Concen: 51.851 ug/l

RT: 8.87 min Scan# 835

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 139782

Ion Ratio Lower Upper

76 100

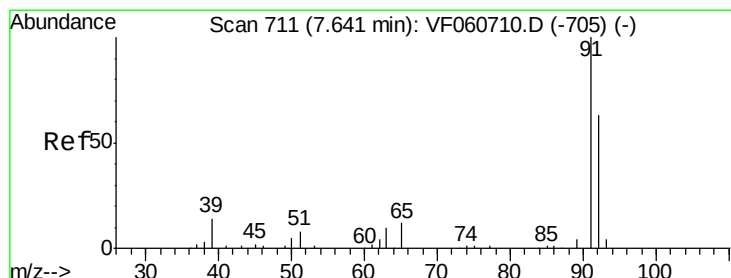
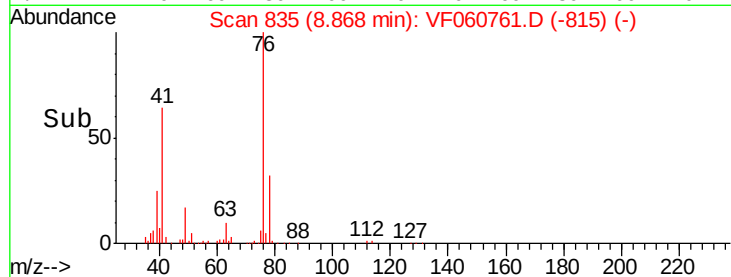
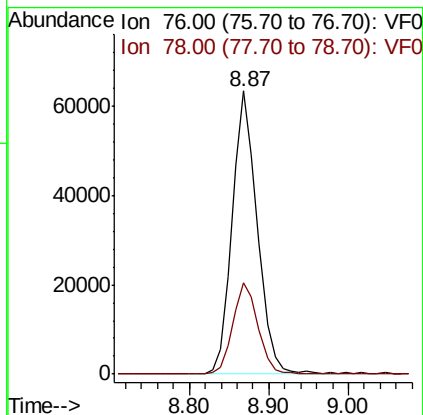
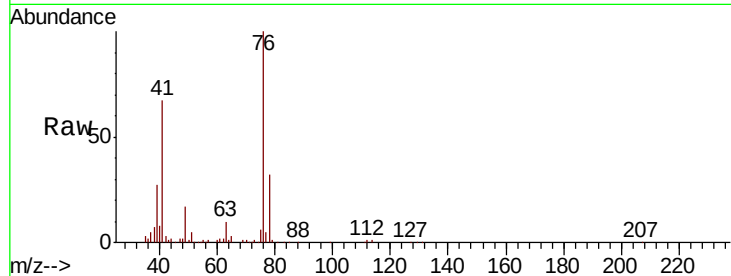
78 32.1 26.6 39.8

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#58

2-Chloroethyl Vinyl ether

Concen: 255.768 ug/l

RT: 7.65 min Scan# 711

Delta R.T. 0.00 min

Lab File: VF060761.D

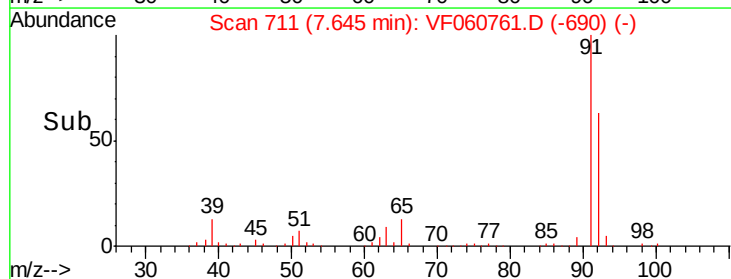
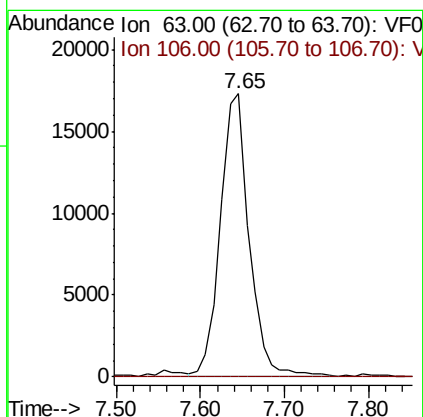
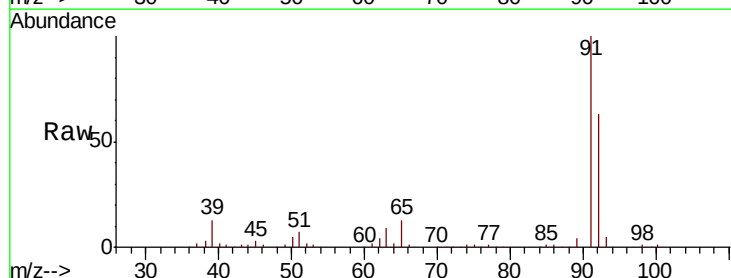
Acq: 16 Nov 2018 12:22

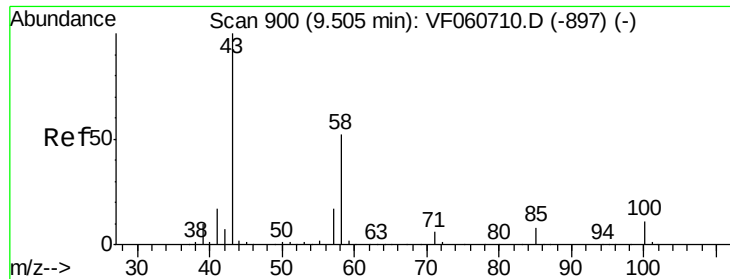
Tgt Ion: 63 Resp: 41276

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





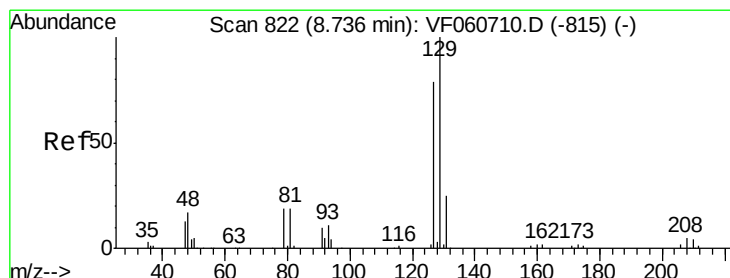
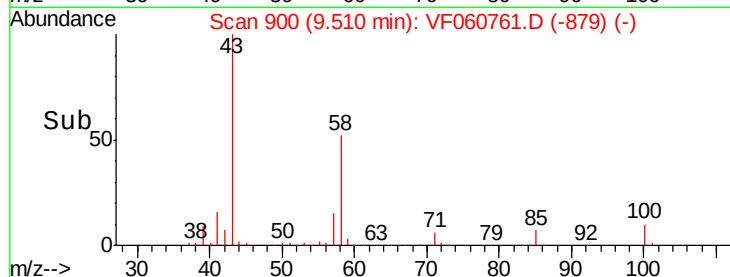
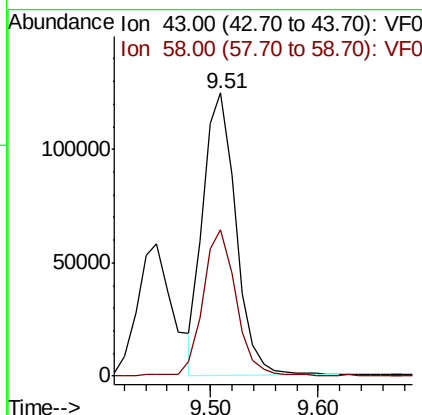
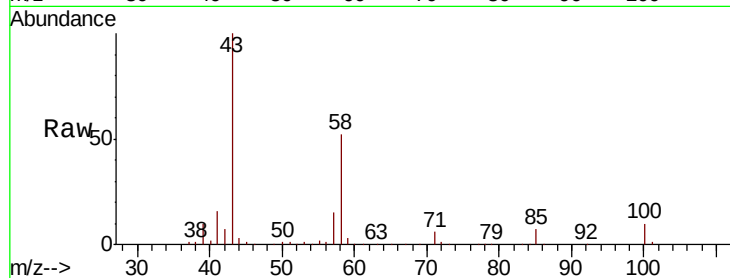
#59
2-Hexanone
Concen: 286.003 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 261162
Ion Ratio Lower Upper
43 100
58 51.7 24.9 74.7

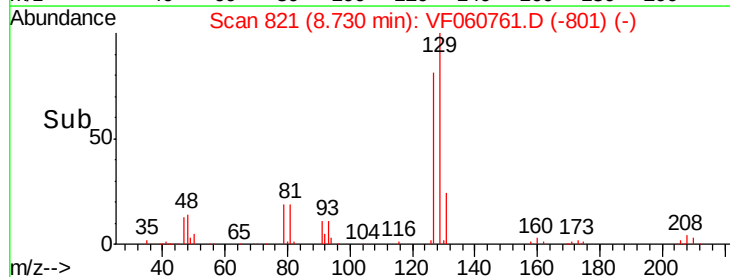
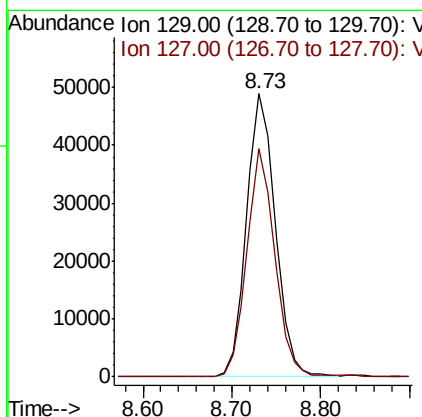
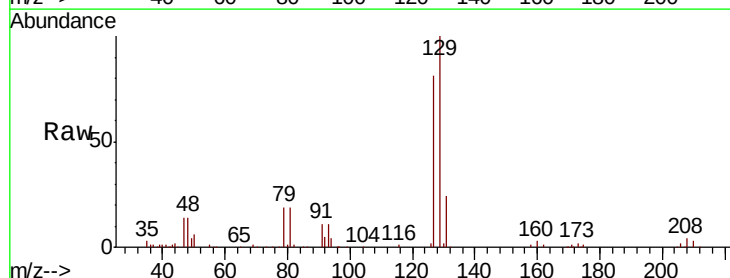
Manual Integrations
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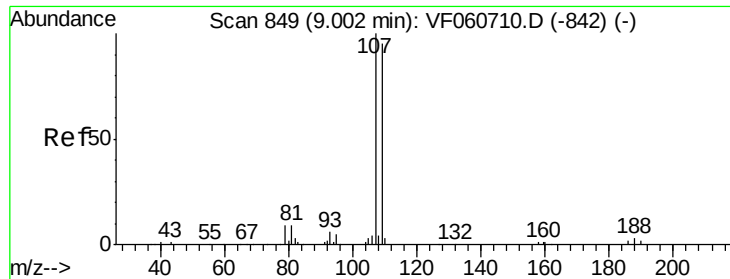
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11/19/2018 12:33:00 PM



#60
Dibromochloromethane
Concen: 49.448 ug/l
RT: 8.73 min Scan# 821
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion: 129 Resp: 109623
Ion Ratio Lower Upper
129 100
127 80.7 39.7 119.1





#61

1,2-Dibromoethane

Concen: 50.438 ug/l

RT: 9.01 min Scan# 849

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 82515

Ion Ratio Lower Upper

107 100

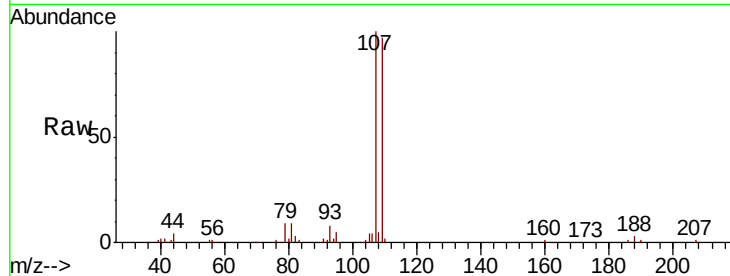
109 97.4 75.9 113.9

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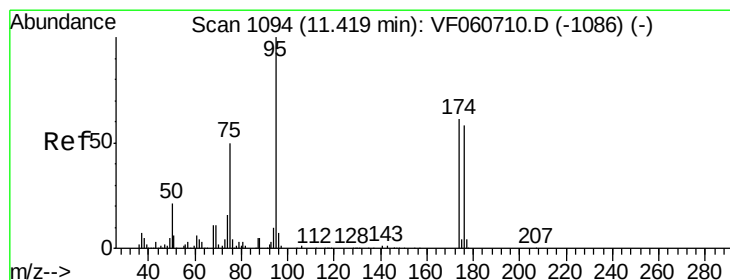
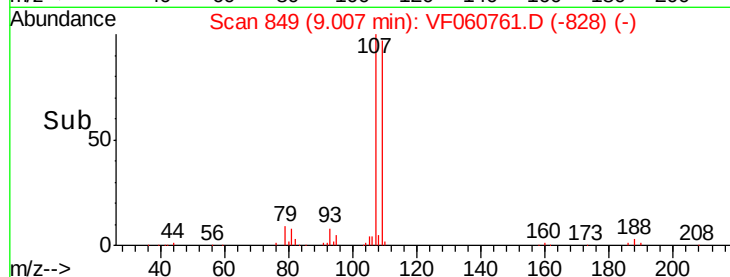
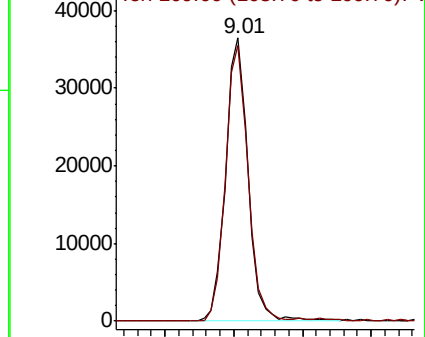
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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 54.764 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

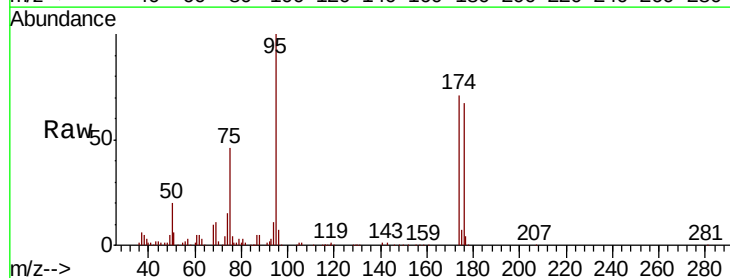
Tgt Ion: 95 Resp: 152011

Ion Ratio Lower Upper

95 100

174 70.9 0.0 121.6

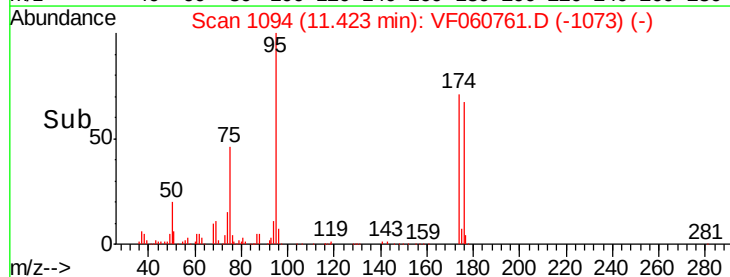
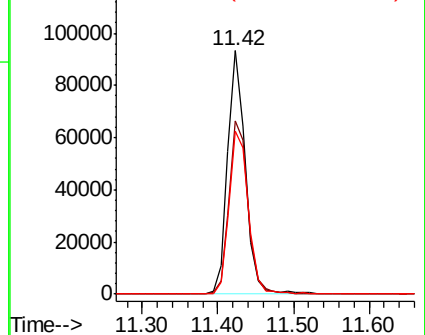
176 66.7 0.0 115.2

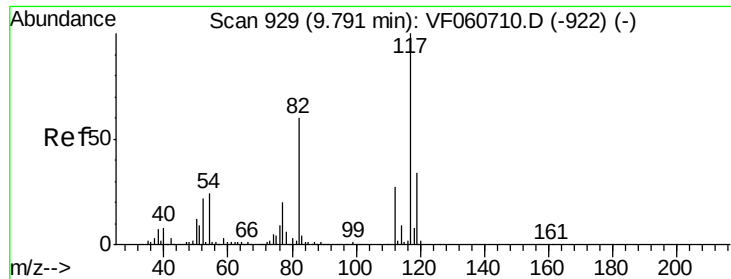


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





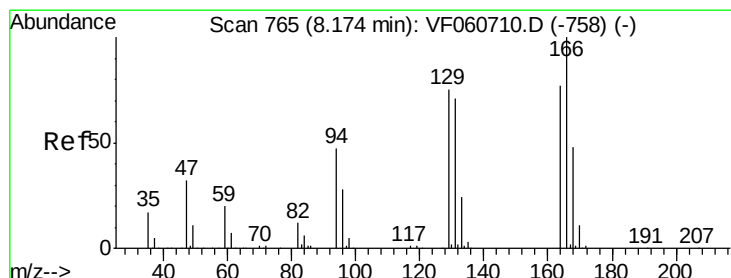
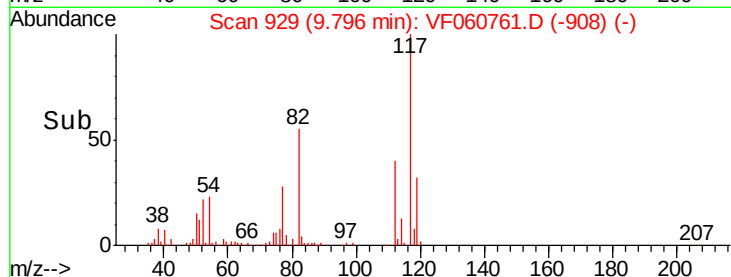
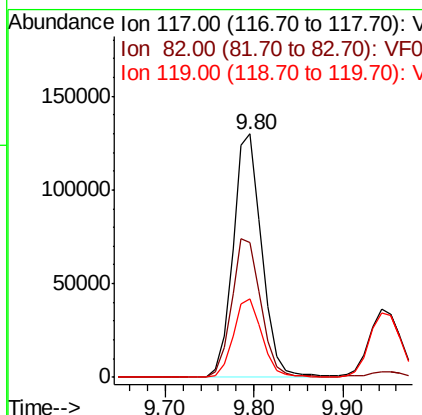
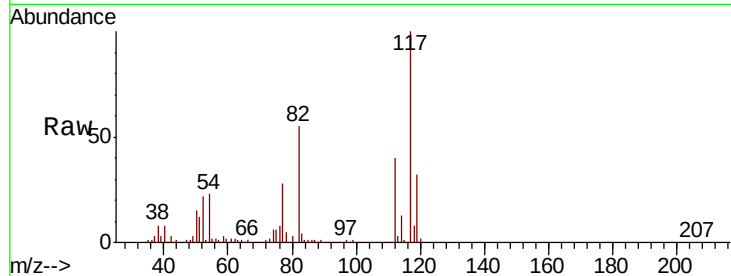
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.2	47.9	71.9
119	32.4	26.8	40.2

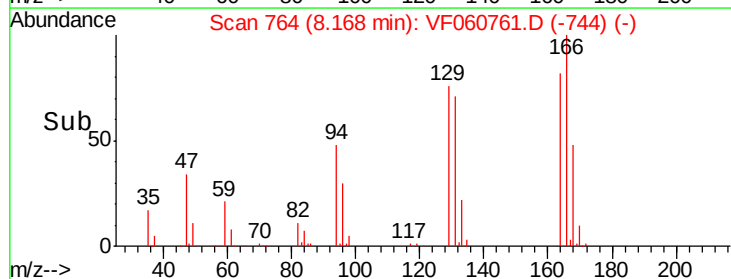
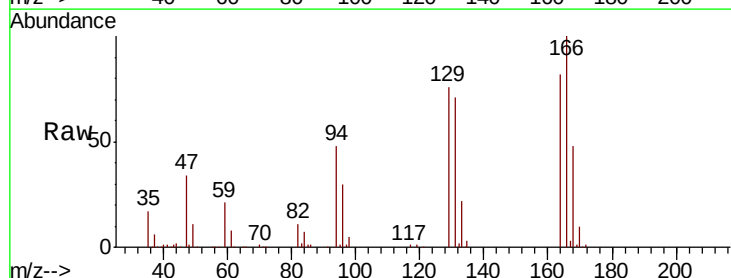
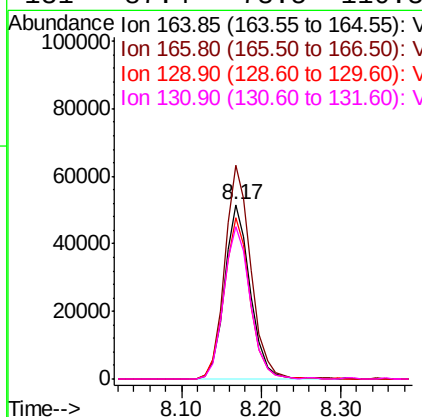
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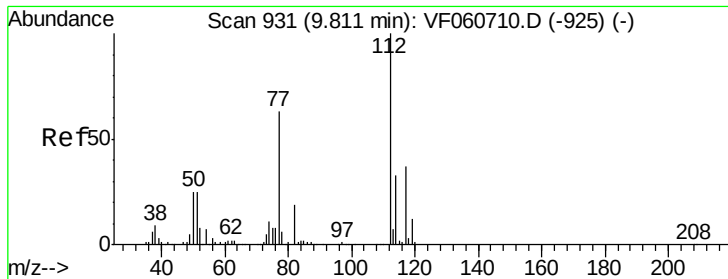
apatel
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#64
Tetrachloroethene
Concen: 50.739 ug/l
RT: 8.17 min Scan# 764
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.5	103.5	155.3
129	92.6	77.4	116.2
131	87.4	73.5	110.3





#65

Chlorobenzene

Concen: 51.250 ug/l

RT: 9.82 min Scan# 931

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 301780

Ion Ratio Lower Upper

112 100

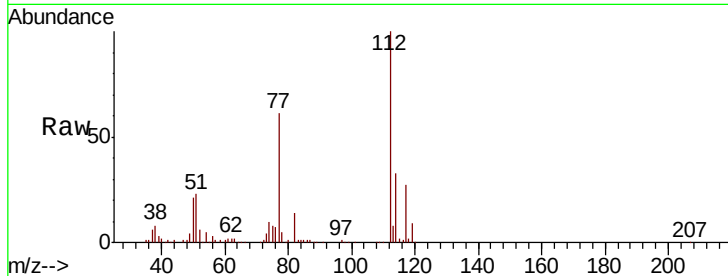
114 33.5 26.1 39.1

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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

150000

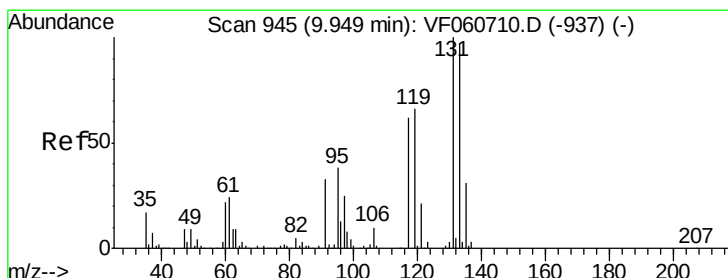
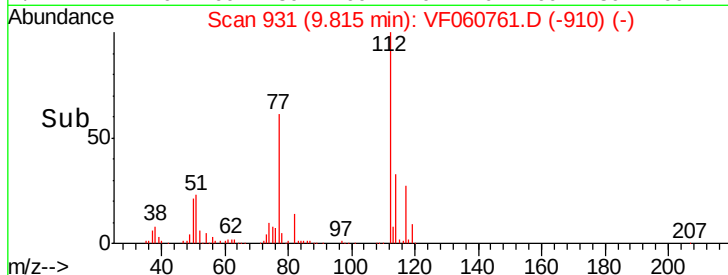
9.82

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 50.346 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

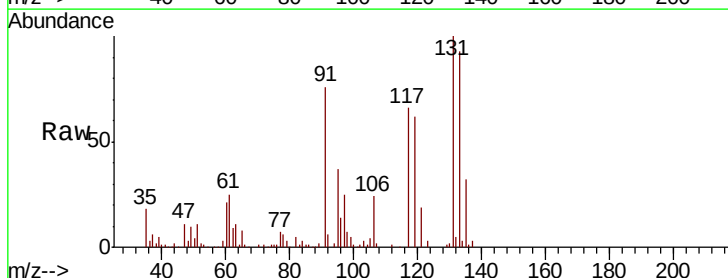
Tgt Ion:131 Resp: 129305

Ion Ratio Lower Upper

131 100

133 92.8 48.3 144.8

119 62.3 33.2 99.6



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

60000

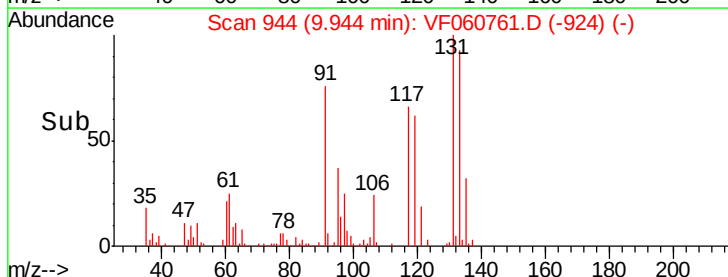
9.94

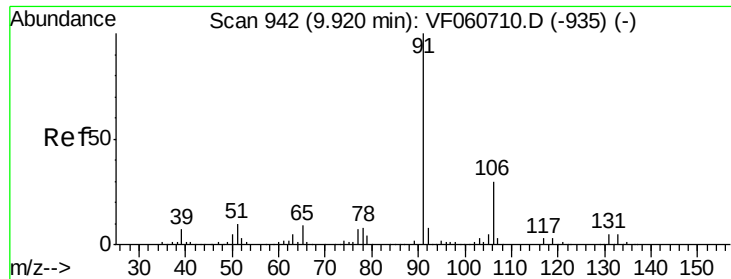
40000

20000

0

Time-->





#67

Ethyl Benzene

Concen: 49.439 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 548730

Ion Ratio Lower Upper

91 100

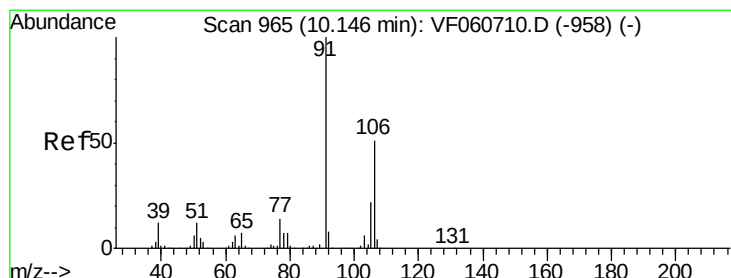
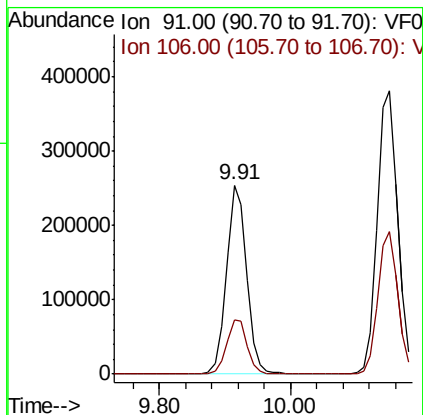
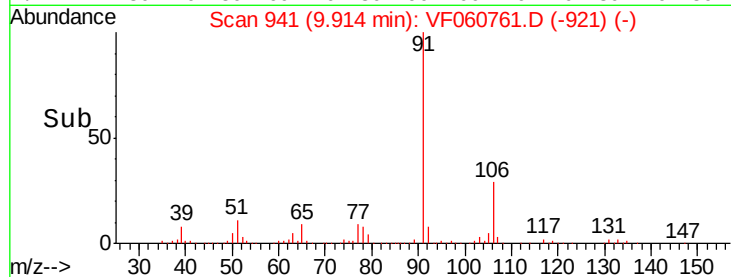
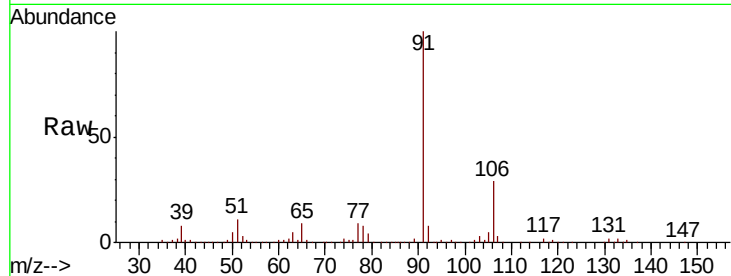
106 28.6 23.9 35.9

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#68

m/p-Xylenes

Concen: 104.194 ug/l

RT: 10.15 min Scan# 965

Delta R.T. 0.00 min

Lab File: VF060761.D

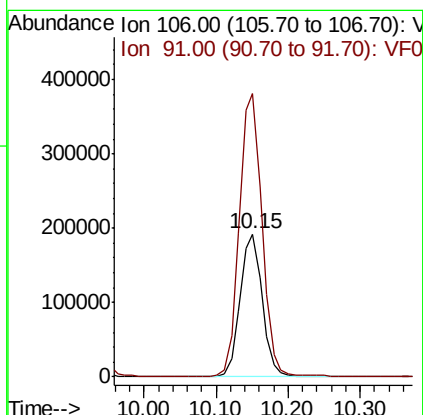
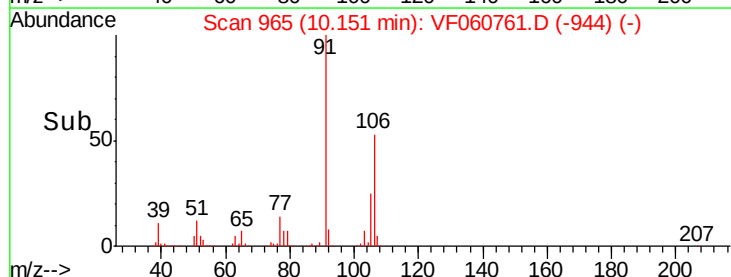
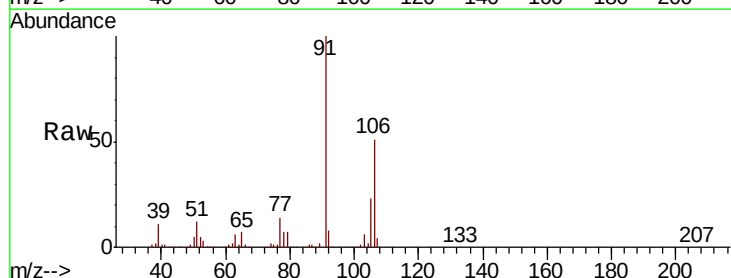
Acq: 16 Nov 2018 12:22

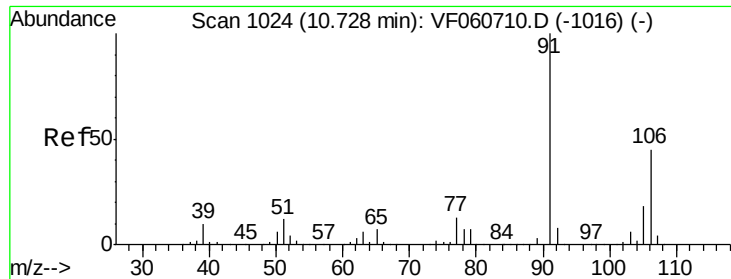
Tgt Ion: 106 Resp: 413291

Ion Ratio Lower Upper

106 100

91 197.7 158.2 237.2





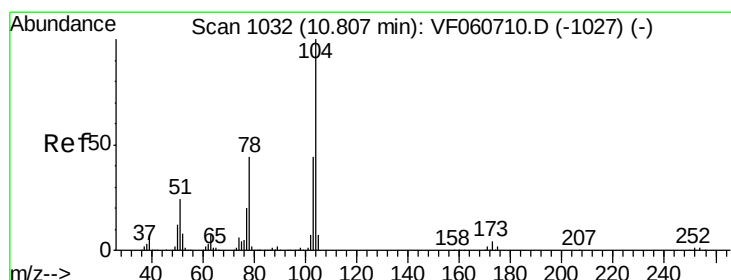
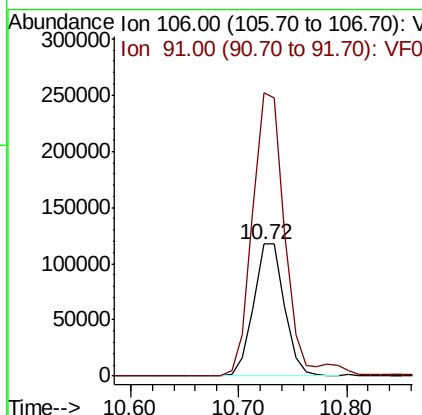
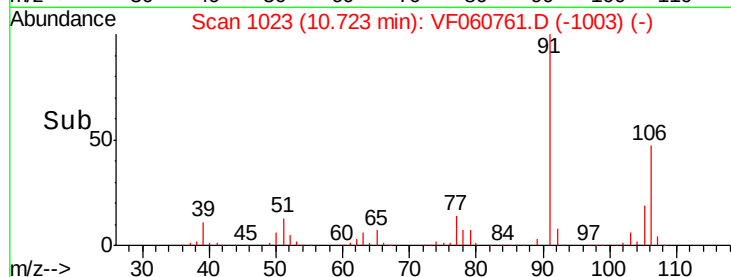
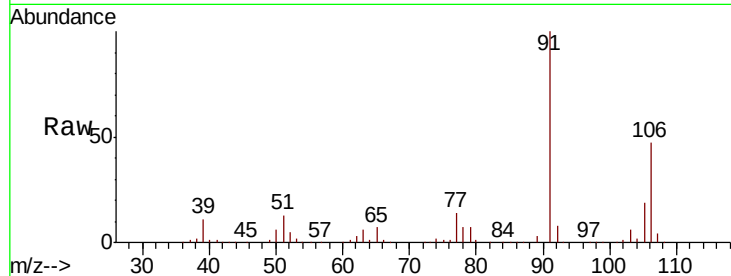
#69
o-Xylene
Concen: 52.748 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	214.1	110.3	330.9

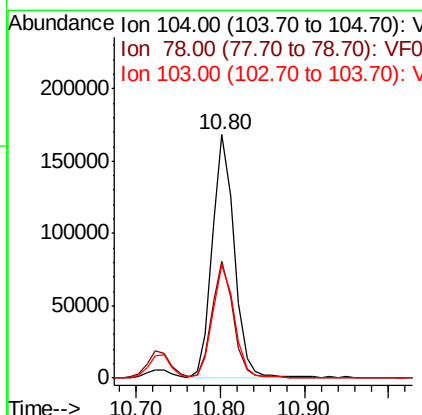
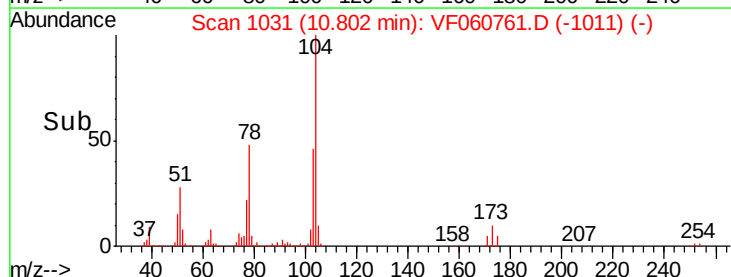
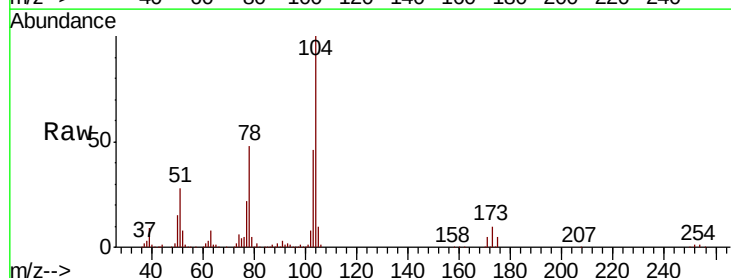
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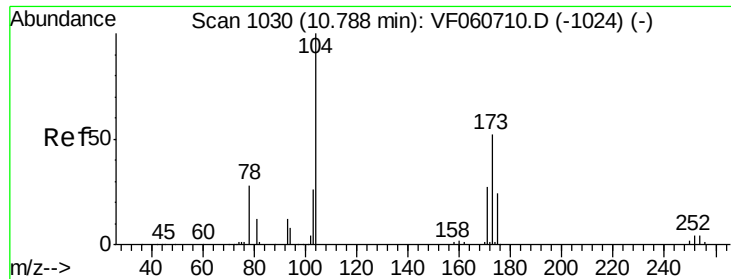
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#70
Styrene
Concen: 50.385 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.8	35.4	53.2
103	46.4	35.8	53.6





#71

Bromoform

Concen: 53.453 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

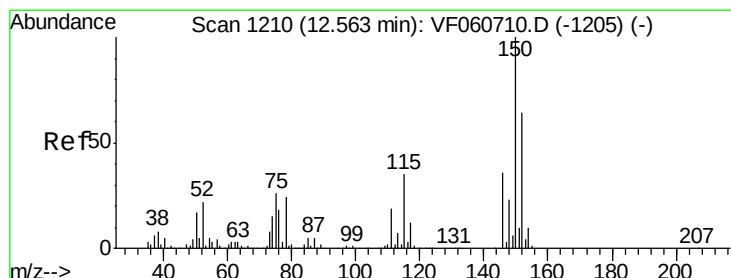
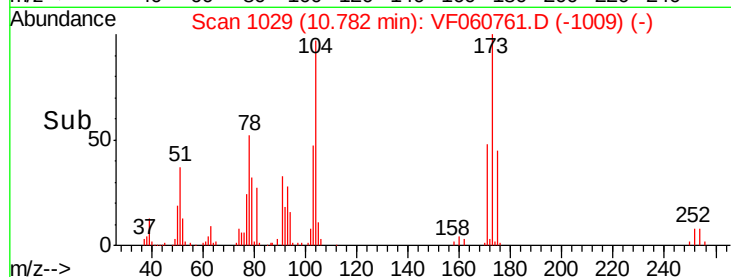
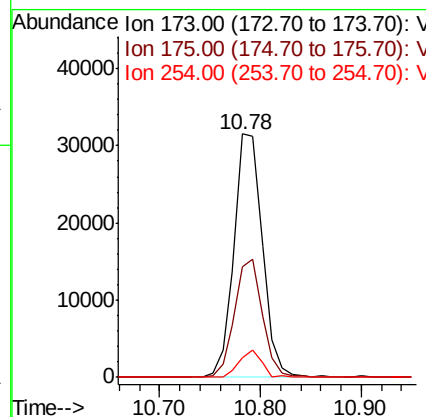
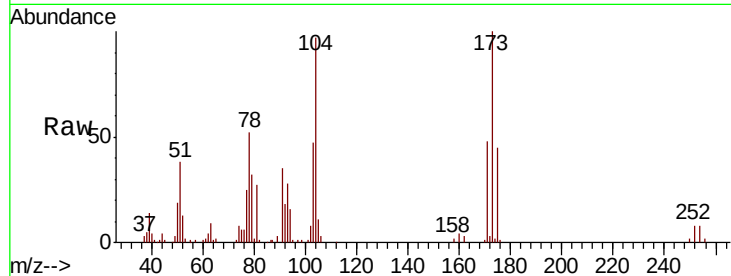
ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 61734
 Ion Ratio Lower Upper
 173 100
 175 45.2 23.4 70.0
 254 7.9 5.8 8.8

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

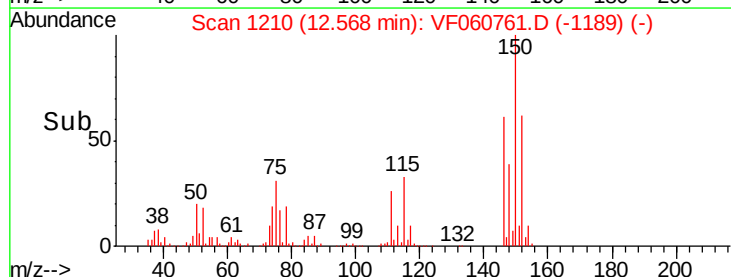
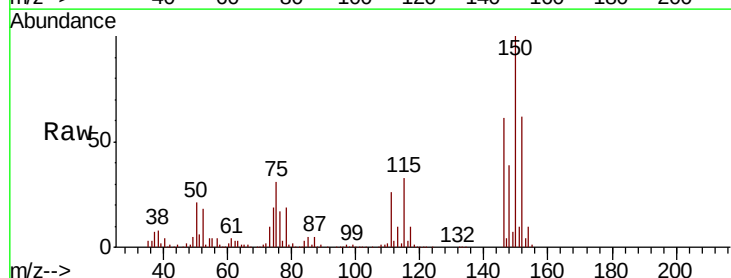
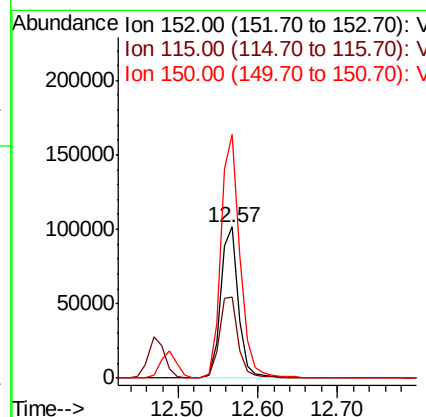
RT: 12.57 min Scan# 1210

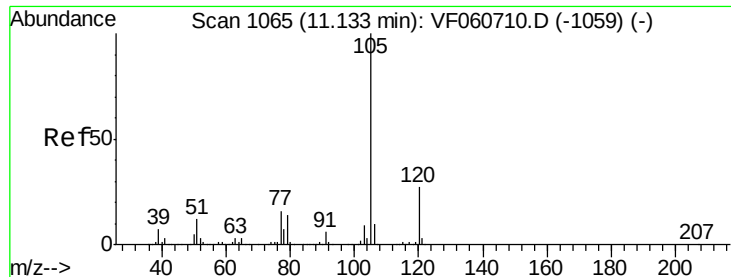
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:152 Resp: 160151
 Ion Ratio Lower Upper
 152 100
 115 53.7 27.9 83.7
 150 160.9 0.0 316.4





#73

Isopropylbenzene

Concen: 53.603 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 691003

Ion Ratio Lower Upper

105 100

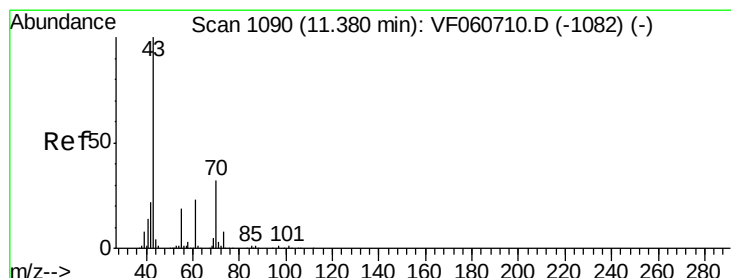
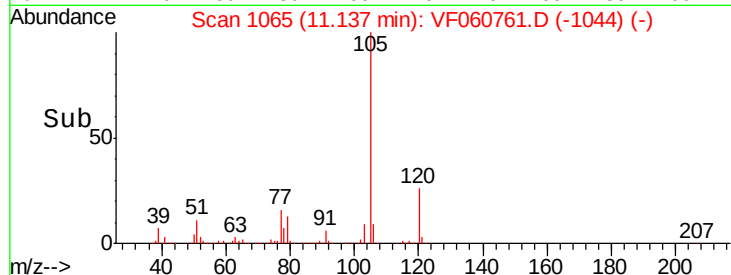
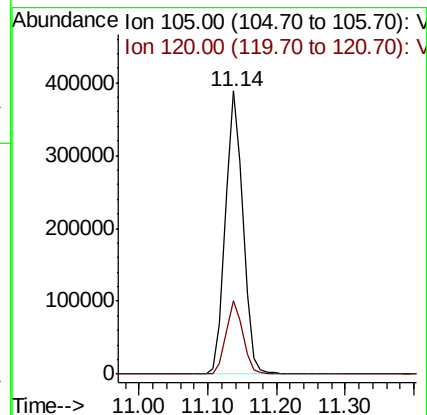
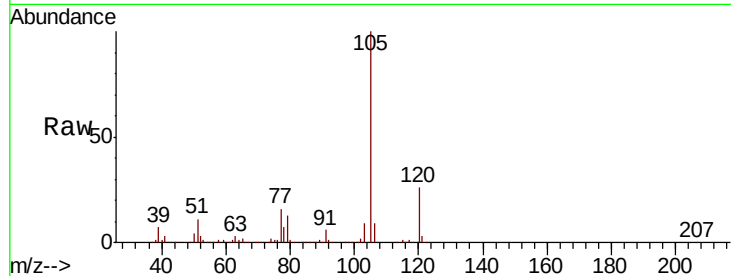
120 25.8 13.4 40.1

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#74

N-ethyl acetate

Concen: 58.622 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion: 43 Resp: 172035

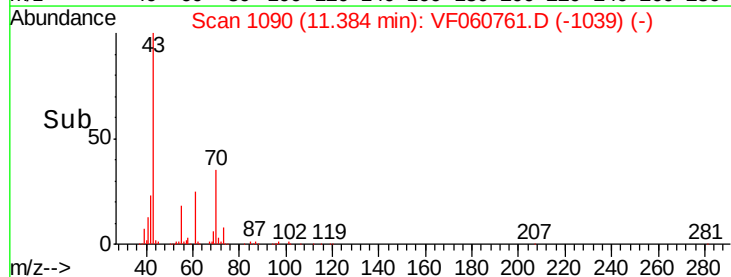
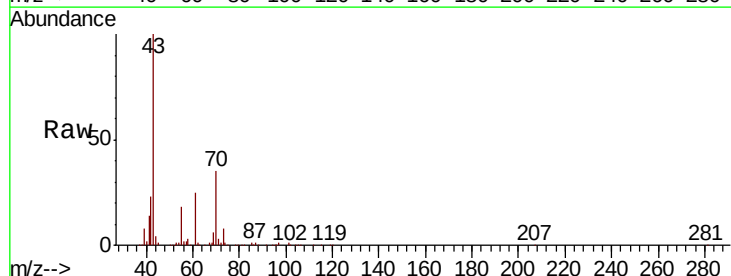
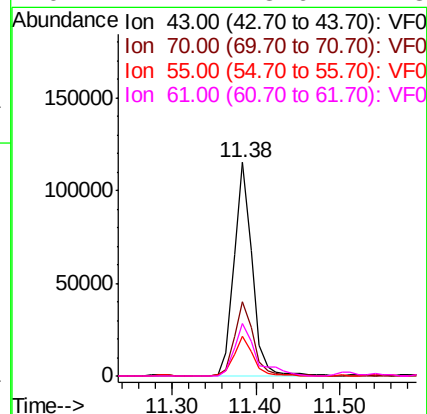
Ion Ratio Lower Upper

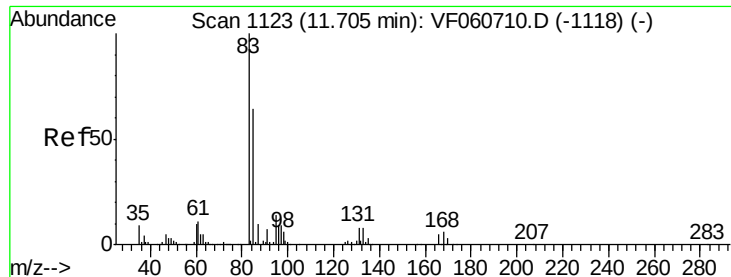
43 100

70 35.0 25.5 38.3

55 18.4 14.9 22.3

61 24.7 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 49.792 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

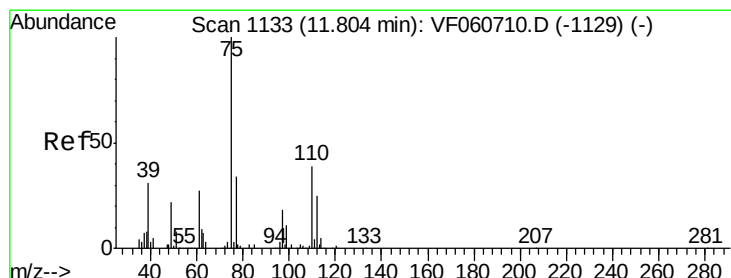
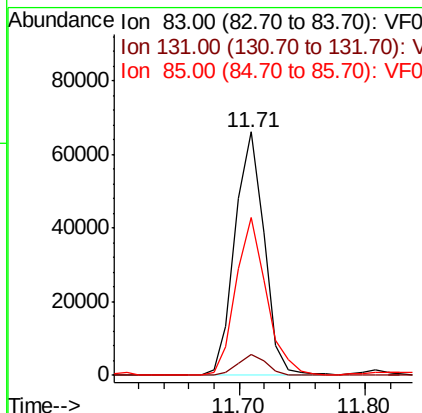
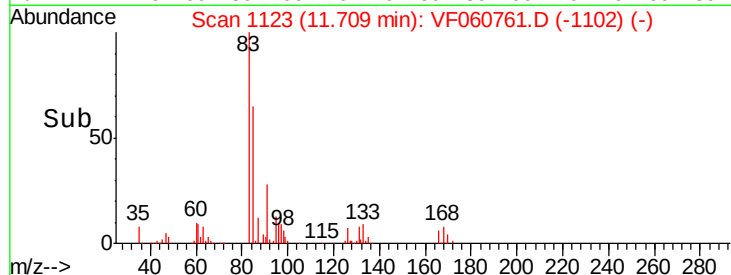
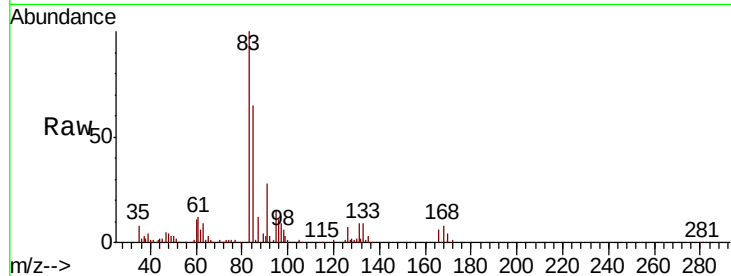
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	106120
Ion Ratio	Lower	Upper	
83	100		
131	8.6	4.2	12.4
85	64.6	32.0	96.2

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#76

1,2,3-Trichloropropane

Concen: 46.470 ug/l

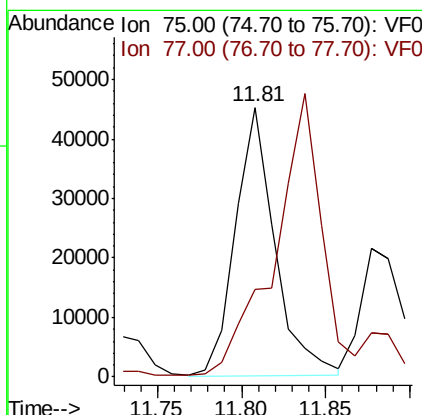
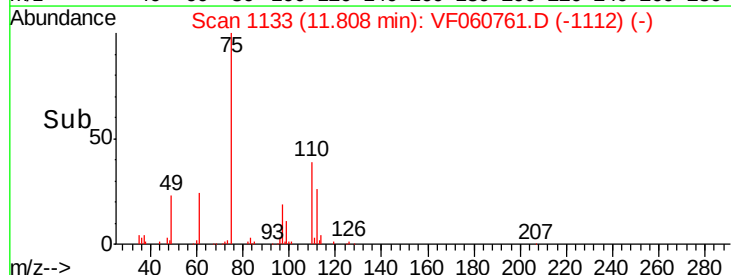
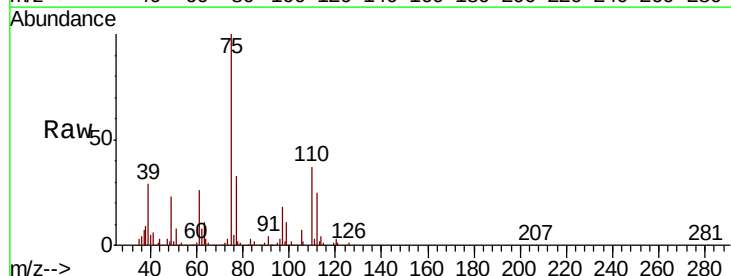
RT: 11.81 min Scan# 1133

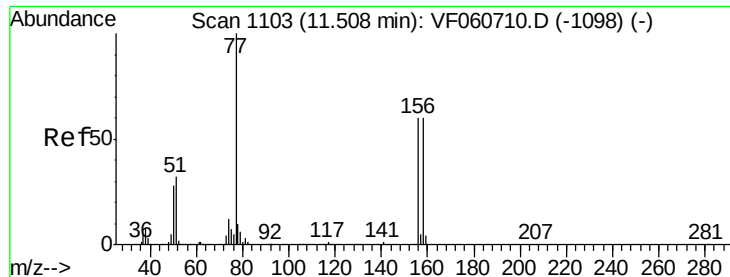
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	75	Resp:	73555
Ion Ratio	Lower	Upper	
75	100		
77	32.7	17.0	51.0





#77

Bromobenzene

Concen: 52.540 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

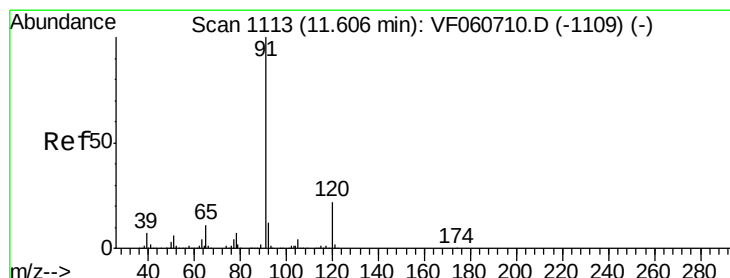
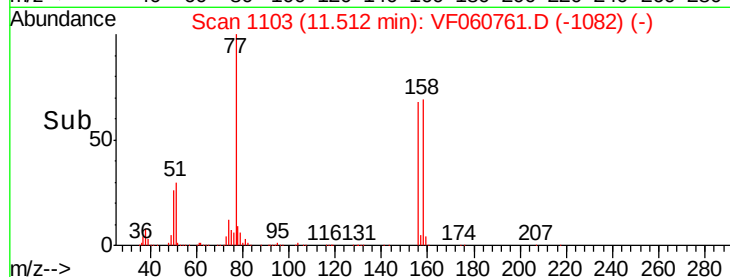
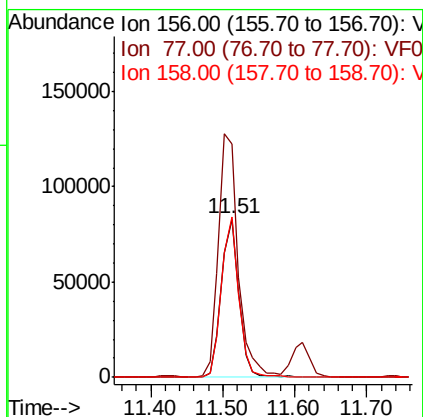
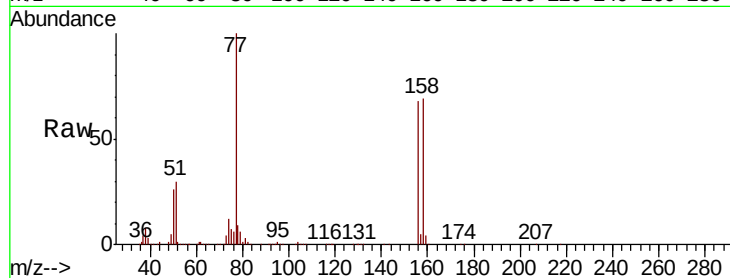
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	140982
Ion Ratio	Lower	Upper	
156	100		
77	147.7	83.0	248.9
158	101.2	49.6	149.0

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#78

n-propylbenzene

Concen: 50.214 ug/l

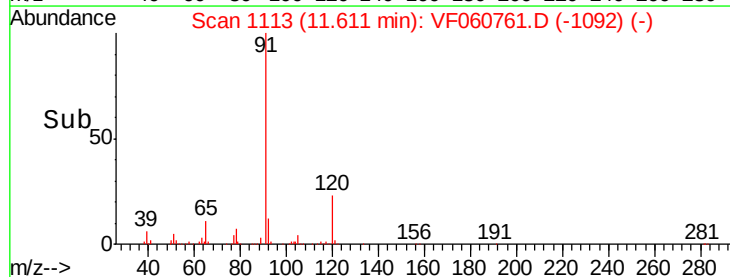
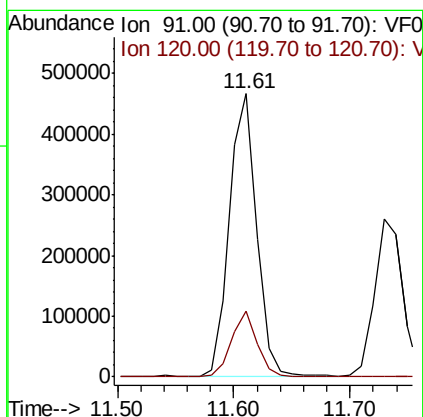
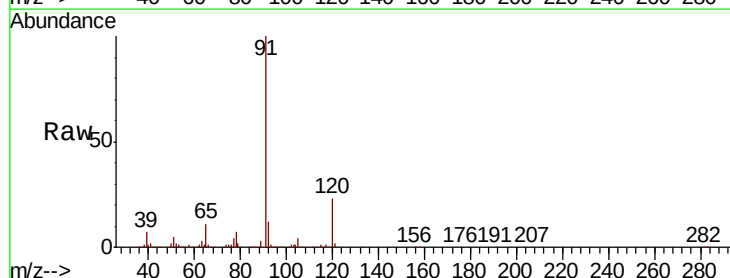
RT: 11.61 min Scan# 1113

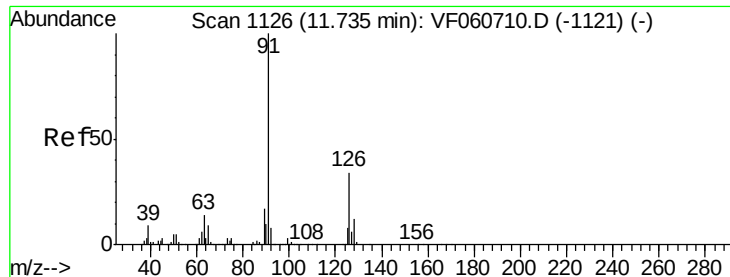
Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Tgt Ion:	91	Resp:	754951
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.2	33.5





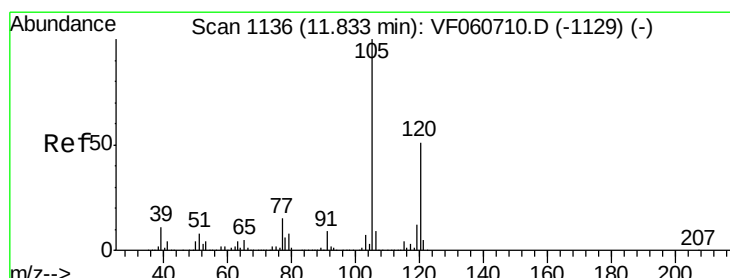
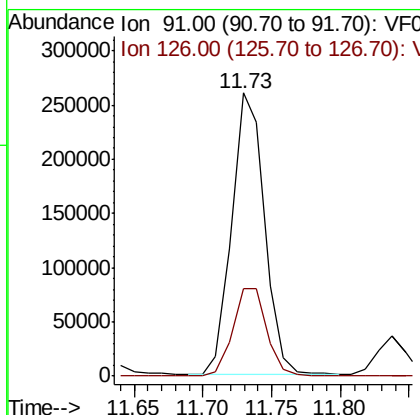
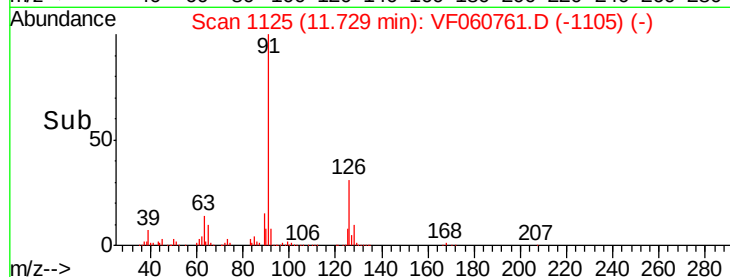
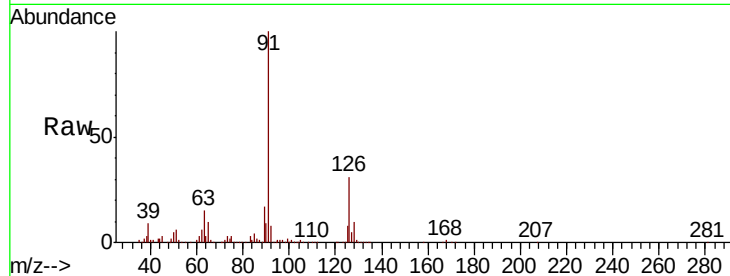
#79
 2-Chlorotoluene
 Concen: 49.253 ug/l
 RT: 11.73 min Scan# 1125
 Delta R.T. -0.01 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 430386
 Ion Ratio Lower Upper
 91 100
 126 31.0 16.8 50.4

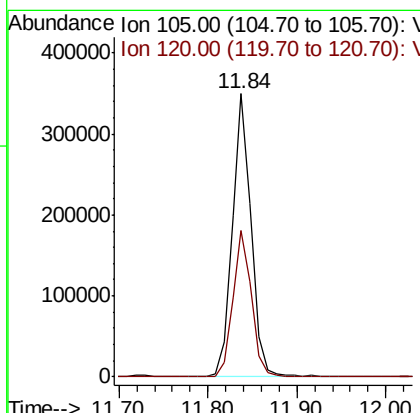
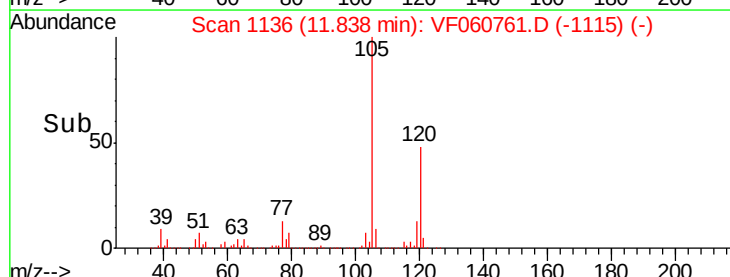
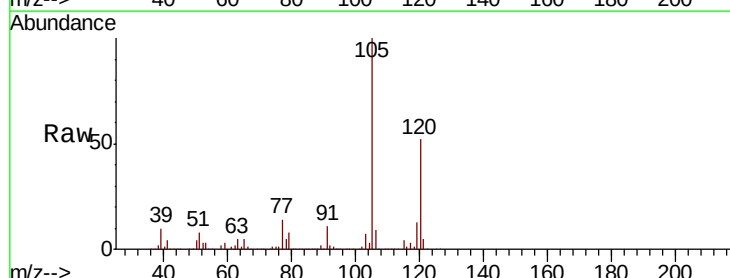
Manual Integrations
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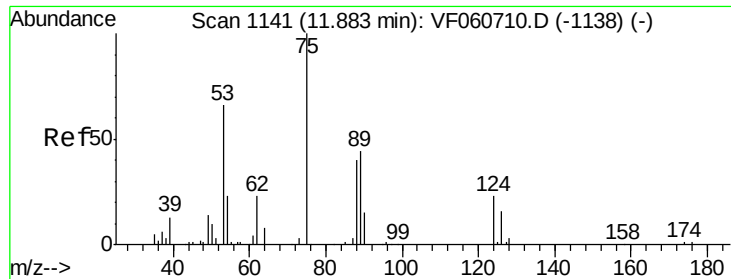
apatel
 11/19/2018 12:33:00 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 50.765 ug/l
 RT: 11.84 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion: 105 Resp: 519546
 Ion Ratio Lower Upper
 105 100
 120 51.8 25.6 76.8





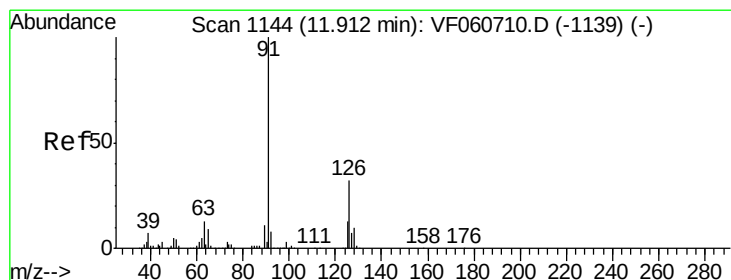
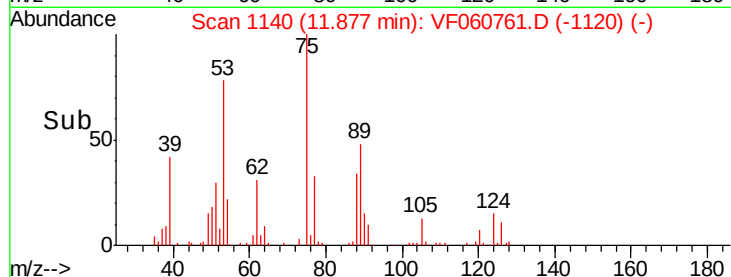
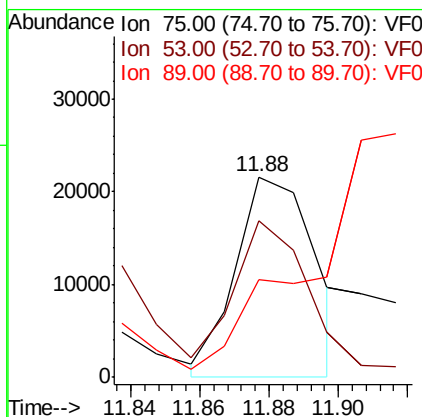
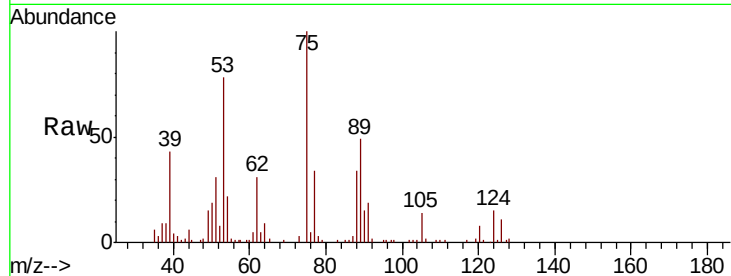
#81
trans-1,4-Dichloro-2-butene
Concen: 44.305 ug/l m
RT: 11.88 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	78.2	57.0	85.4
89	48.8	37.8	56.8

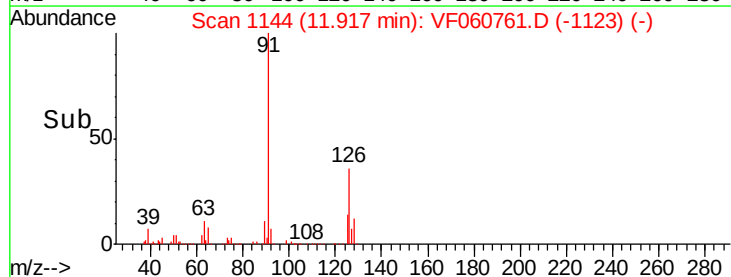
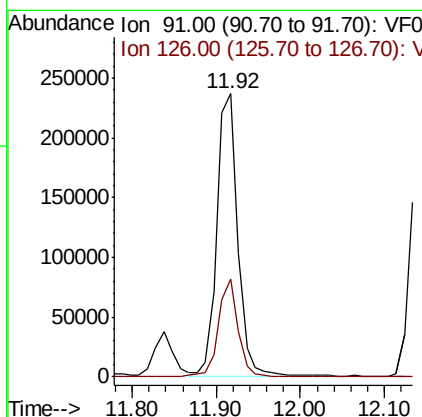
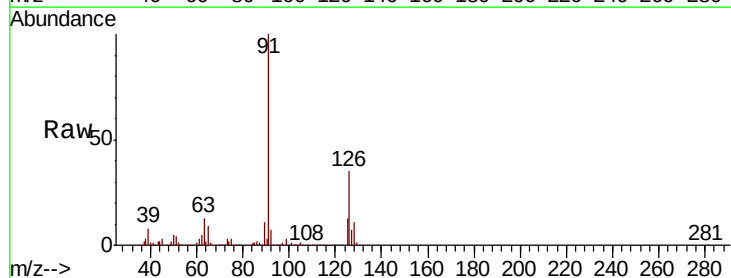
Manual Integrations
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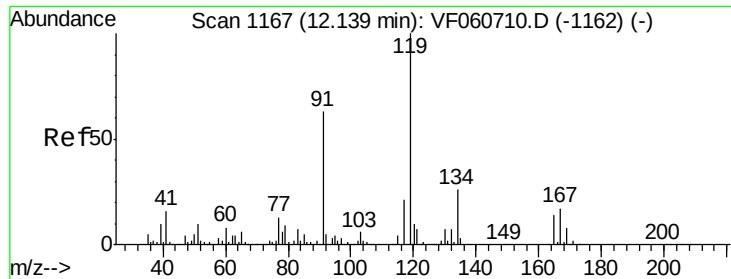
apatel
11/19/2018 12:33:00 PM



#82
4-Chlorotoluene
Concen: 45.271 ug/l
RT: 11.92 min Scan# 1144
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	16.0	47.9





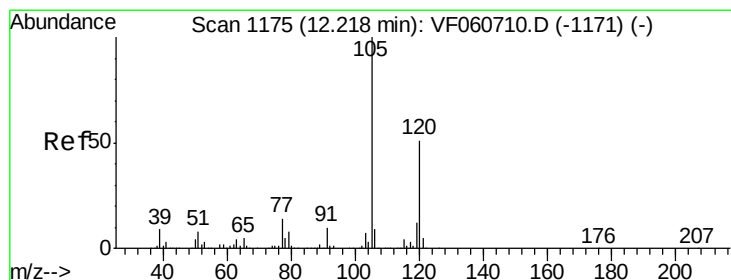
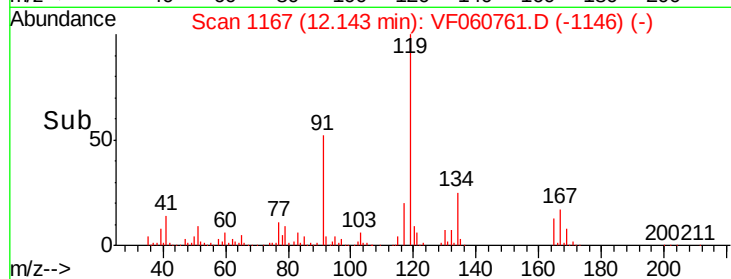
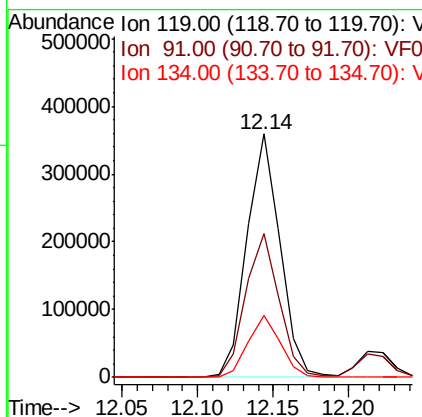
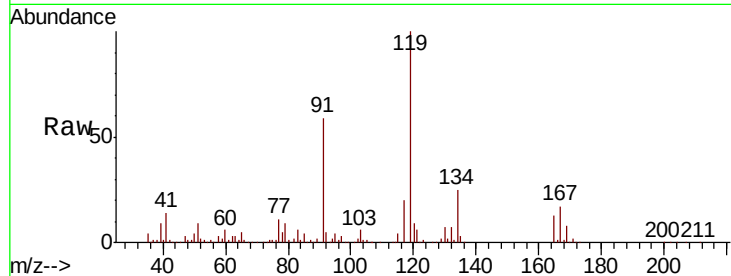
#83
 tert-Butylbenzene
 Concen: 50.940 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	553543		
91	59.1		31.4	94.3
134	25.5		12.8	38.4

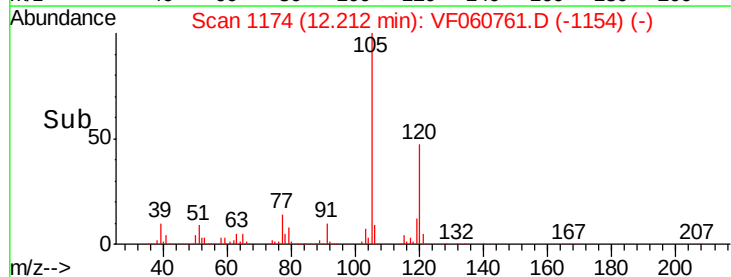
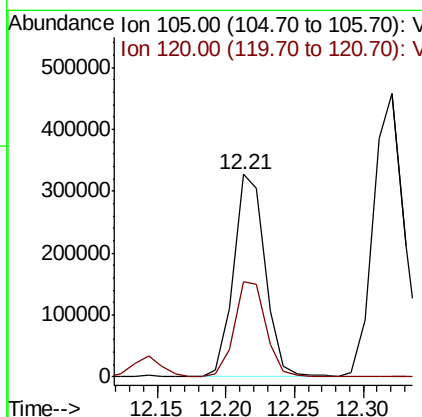
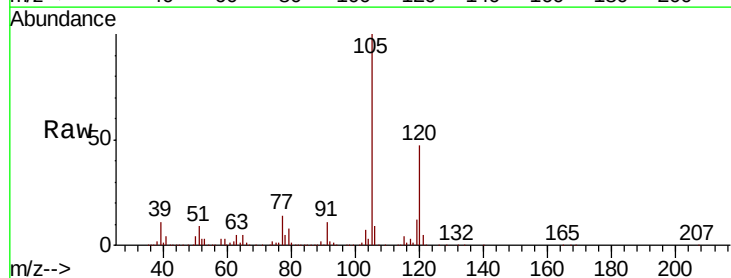
Manual Integrations
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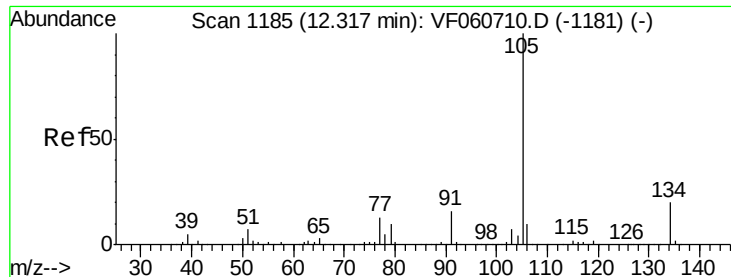
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.436 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	523264		
120	46.8		25.5	76.5





#85

sec-Butylbenzene

Concen: 48.595 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 716326

Ion Ratio Lower Upper

105 100

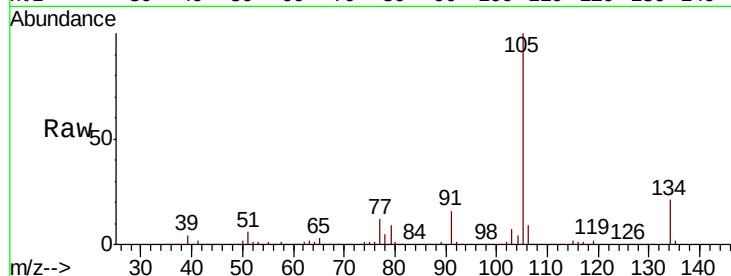
134 20.5 10.1 30.3

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.32

500000

400000

300000

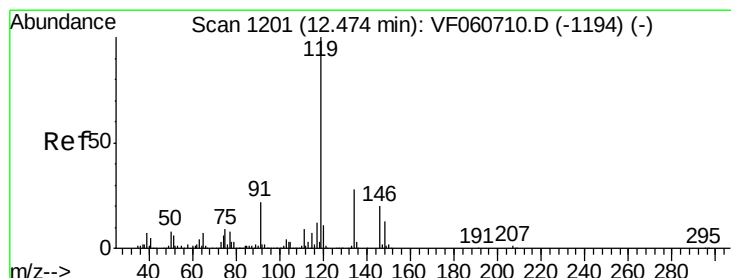
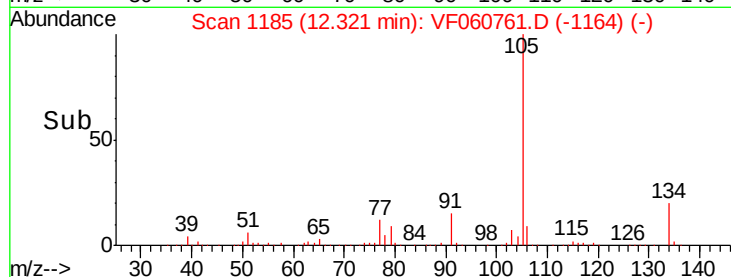
200000

100000

0

12.30 12.40

Time-->



#86

p-Isopropyltoluene

Concen: 48.490 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF060761.D

Acq: 16 Nov 2018 12:22

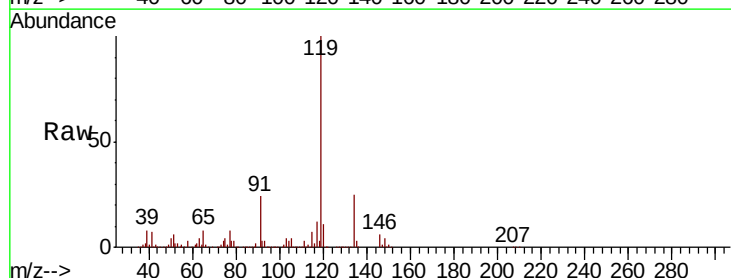
Tgt Ion:119 Resp: 596977

Ion Ratio Lower Upper

119 100

134 25.3 13.9 41.7

91 24.2 11.3 33.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.47

500000

400000

300000

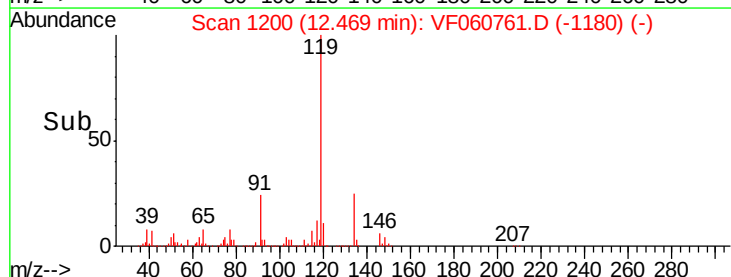
200000

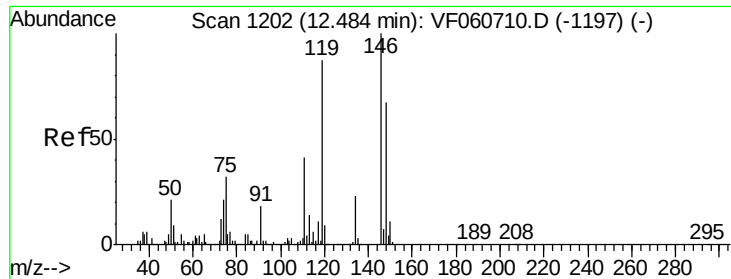
100000

0

12.40 12.50 12.60

Time-->





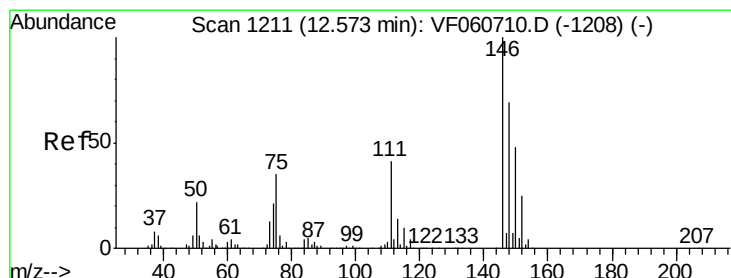
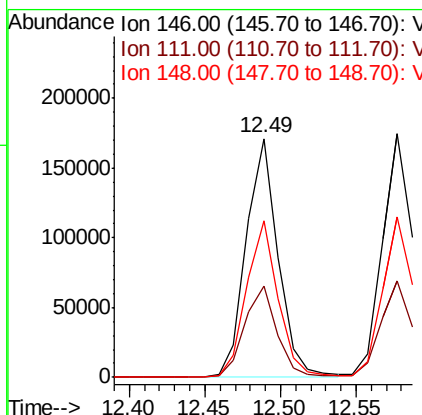
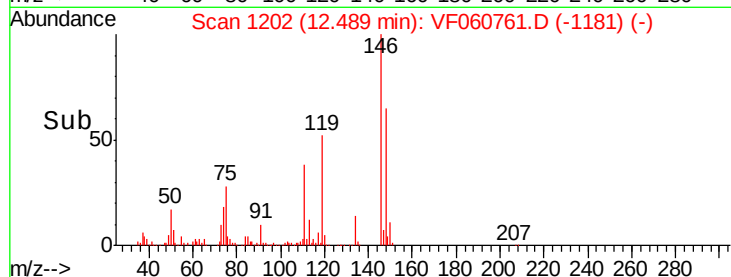
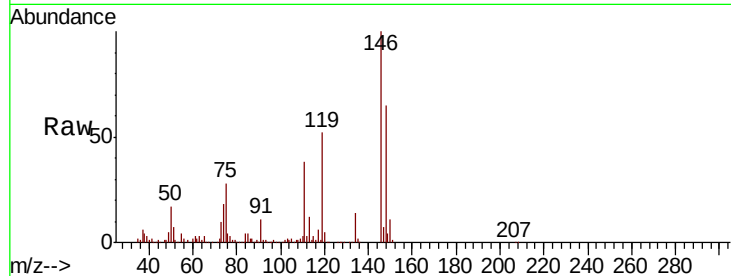
#87
 1,3-Dichlorobenzene
 Concen: 47.165 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	20.3	60.8
148	65.4	33.3	99.9

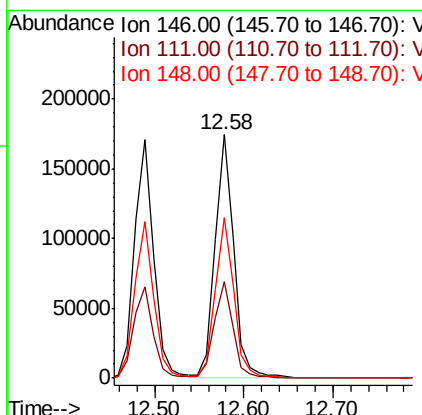
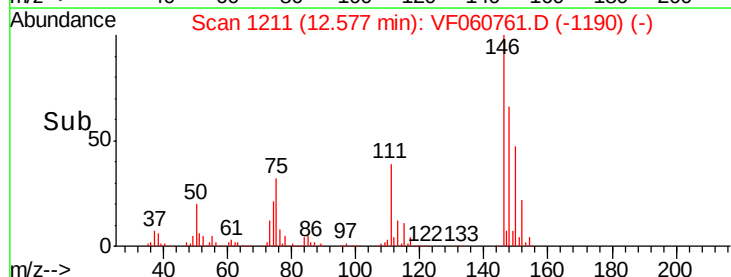
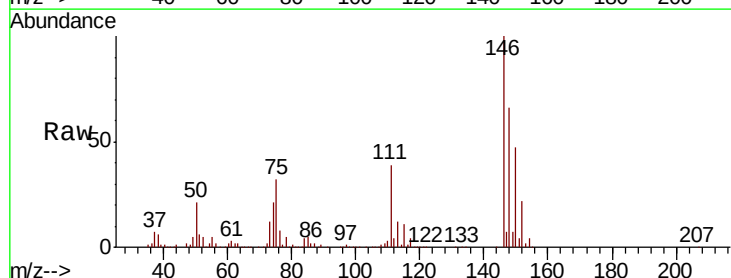
Manual Integrations
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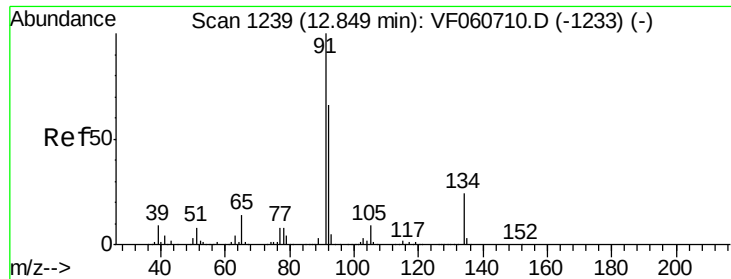
apatel
 11/19/2018 12:33:00 PM



#88
 1,4-Dichlorobenzene
 Concen: 49.923 ug/l
 RT: 12.58 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.6	61.9
148	65.7	34.7	104.1





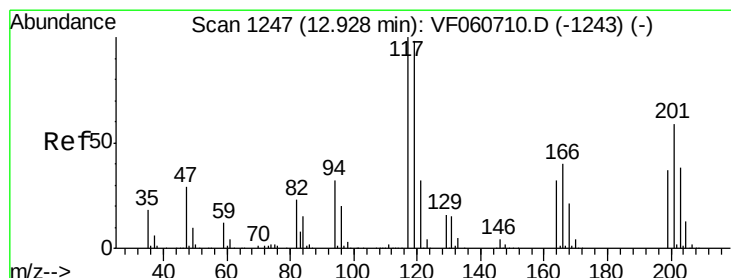
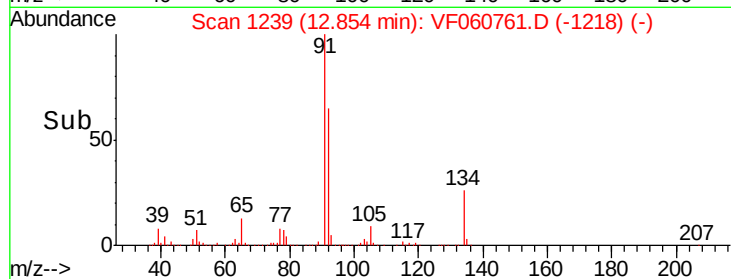
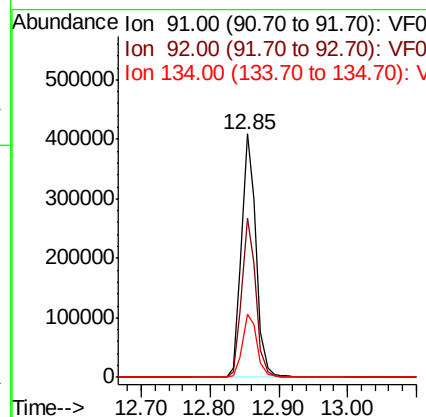
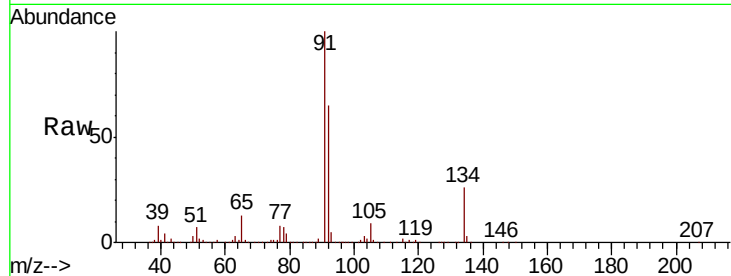
#89
n-Butylbenzene
Concen: 47.366 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	595097		
92	65.3	33.1	99.2	
134	25.7	11.9	35.9	

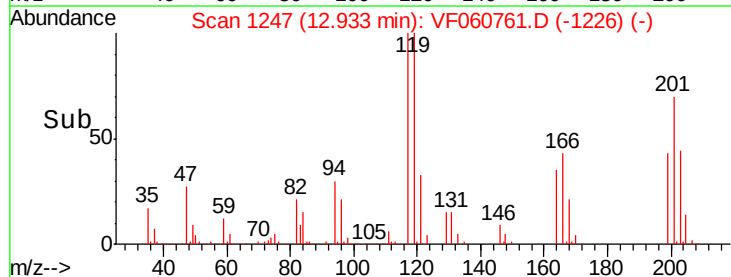
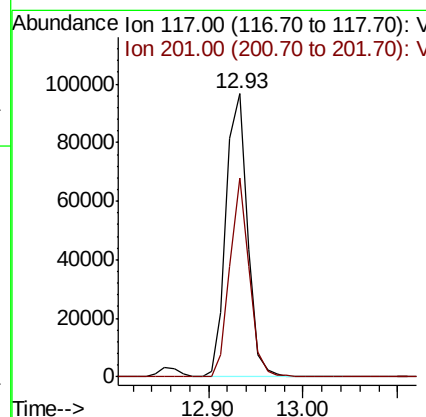
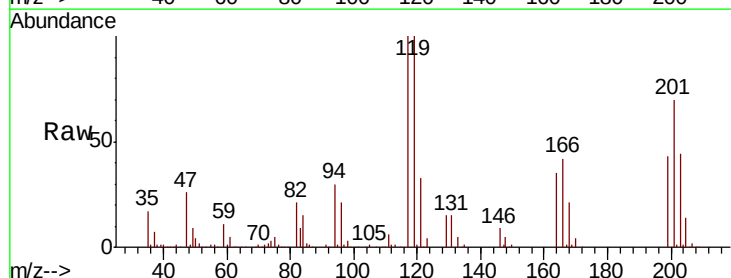
Manual Integrations
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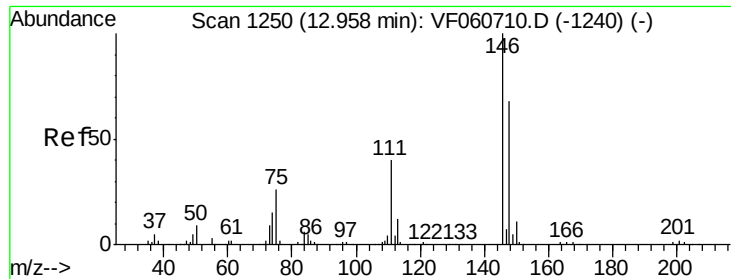
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#90
Hexachloroethane
Concen: 50.706 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	152686		
201	70.1	29.4	88.3	





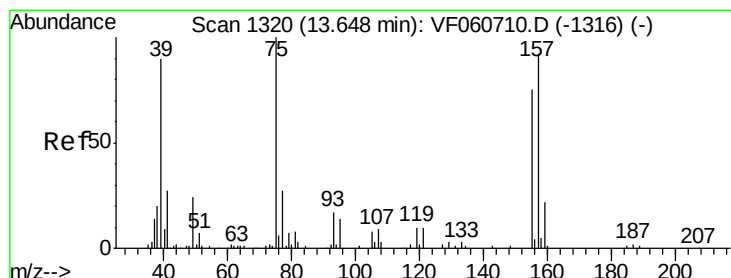
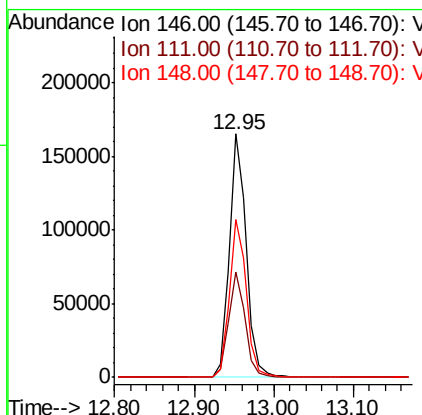
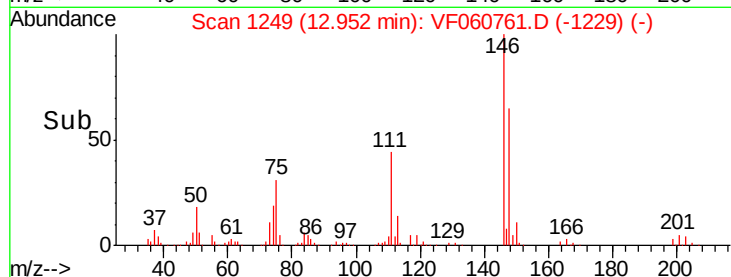
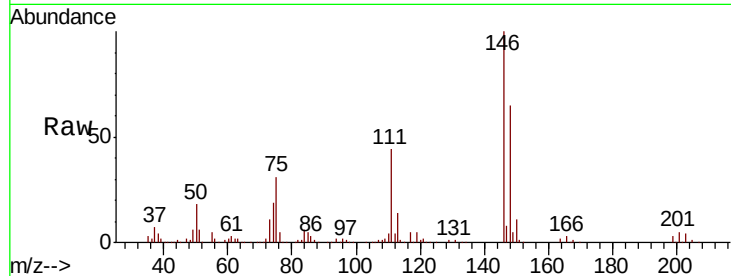
#91
 1,2-Dichlorobenzene
 Concen: 49.450 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	248633		
111	43.5	20.3	60.8	
148	64.9	34.1	102.3	

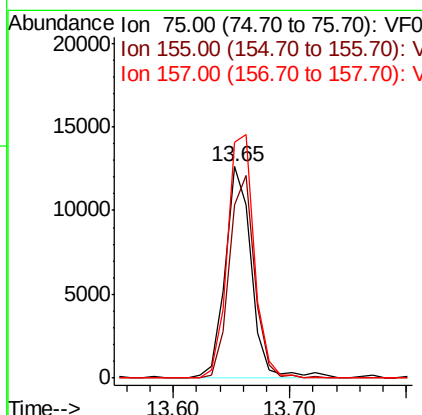
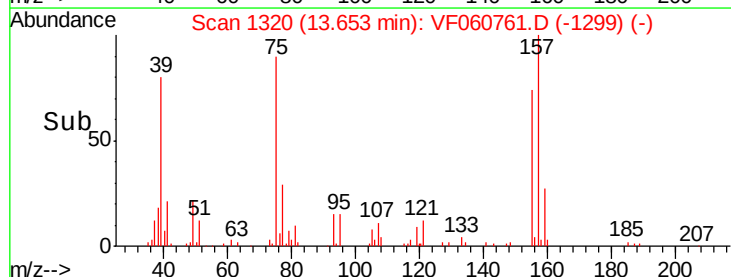
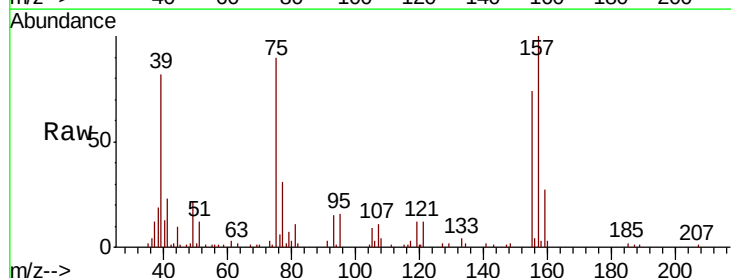
Manual Integrations
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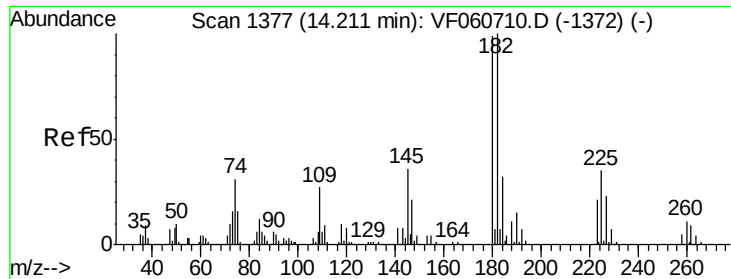
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.184 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	19702		
155	82.0	37.4	112.2	
157	111.5	46.0	138.0	





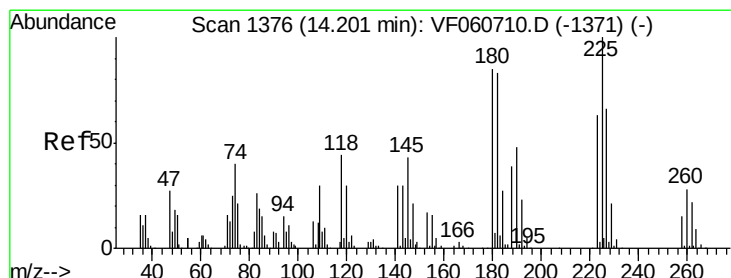
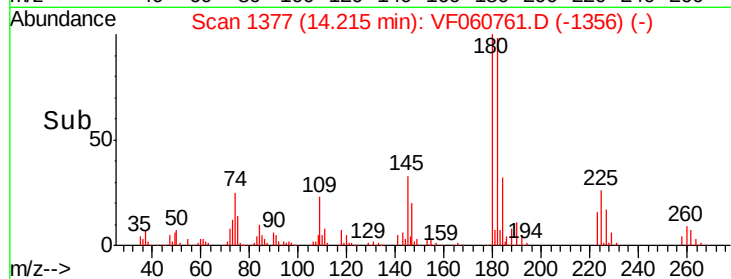
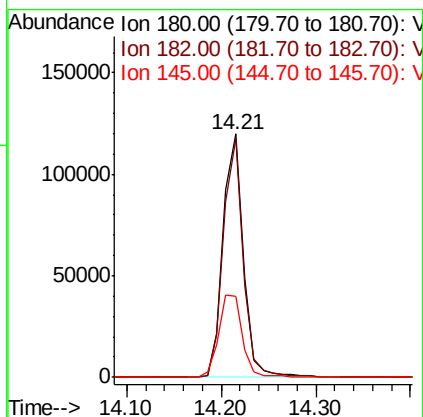
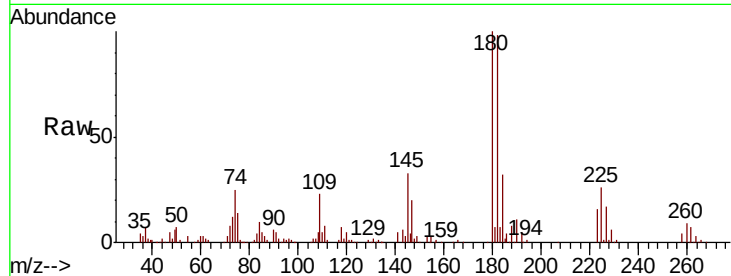
#93
 1,2,4-Trichlorobenzene
 Concen: 49.655 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	179446		
182	97.8	50.3	151.0	
145	33.3	18.3	54.9	

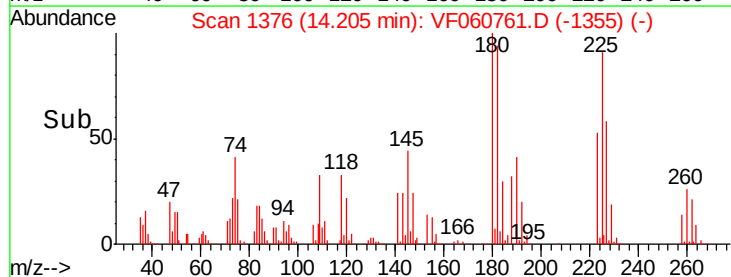
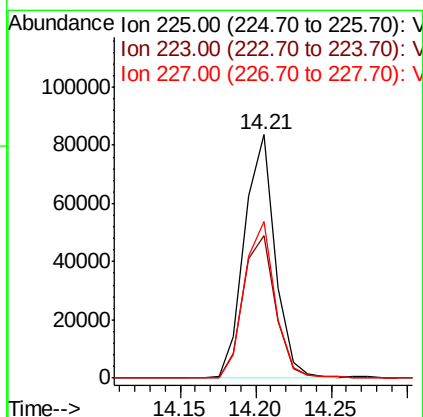
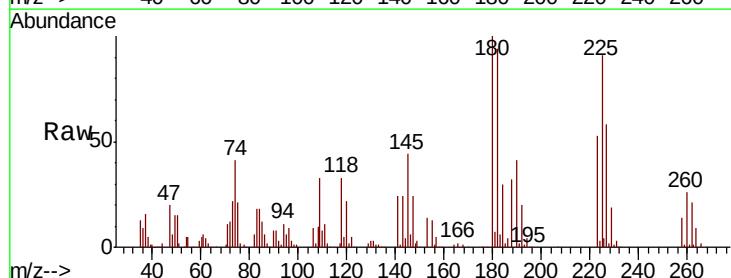
Manual Integrations
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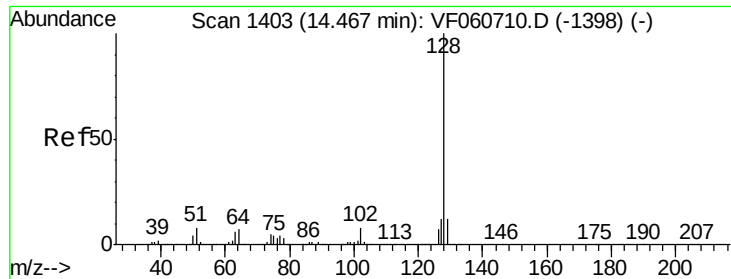
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 11/19/2018 12:33:00 PM



#94
 Hexachlorobutadiene
 Concen: 49.826 ug/l
 RT: 14.21 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF060761.D
 Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	117666		
223	58.4	31.5	94.5	
227	64.1	33.0	99.0	





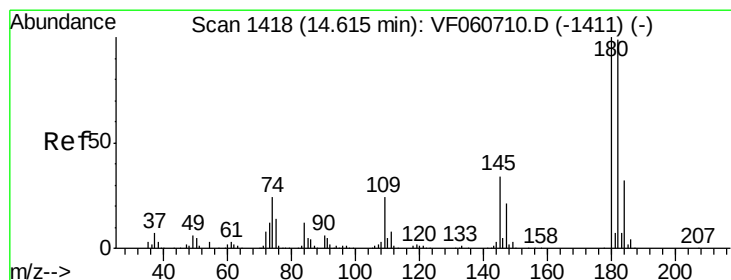
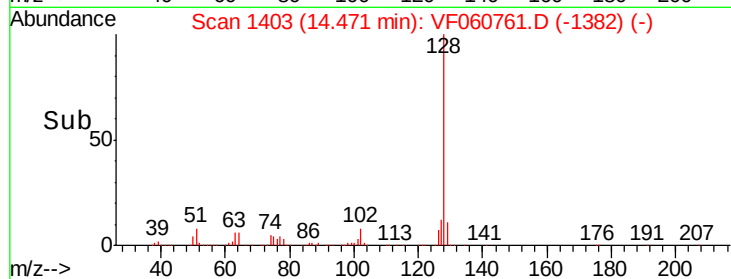
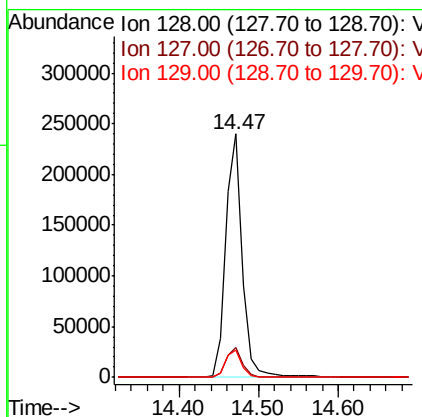
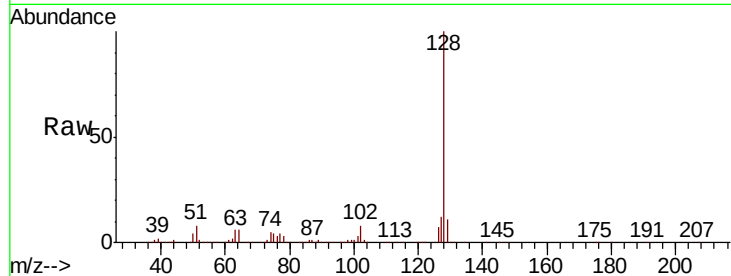
#95
Naphthalene
Concen: 53.326 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.6
129	11.1	9.3	13.9

Manual Integrations
APPROVED

apatel
11/19/2018 12:33:00 PM



#96
1,2,3-Trichlorobenzene
Concen: 52.088 ug/l
RT: 14.62 min Scan# 1418
Delta R.T. 0.00 min
Lab File: VF060761.D
Acq: 16 Nov 2018 12:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	49.6	149.0
145	30.7	16.9	50.7

