

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF102918\
 Data File : VF060531.D
 Acq On : 29 Oct 2018 15:58
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 10/30/2018 2:06:35 PM

Quant Time: Oct 30 05:02:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F102918S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 30 04:16:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	288132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	470570	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	397130	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	226587	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	23839	4.32	ug/l	0.00
Spiked Amount			Recovery	=	8.64%	
35) Dibromofluoromethane	4.30	113	25844	4.74	ug/l	0.00
Spiked Amount			Recovery	=	9.48%	
50) Toluene-d8	7.72	98	56190	4.95	ug/l	0.00
Spiked Amount			Recovery	=	9.90%	
62) 4-Bromofluorobenzene	11.52	95	27600	4.49	ug/l	0.00
Spiked Amount			Recovery	=	8.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	28492	3.836	ug/l	94
3) Chloromethane	1.15	50	19375	5.416	ug/l	95
4) Vinyl Chloride	1.20	62	18833	4.650	ug/l #	80
5) Bromomethane	1.38	94	16923	4.262	ug/l	98
6) Chloroethane	1.43	64	10754	4.386	ug/l	96
7) Trichlorofluoromethane	1.55	101	49819	3.991	ug/l	99
8) Diethyl Ether	1.71	74	6140	5.061	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.91	101	24987	4.636	ug/l #	82
10) Methyl Iodide	1.97	142	34642	4.486	ug/l	98
11) Tert butyl alcohol	2.70	59	6805	23.521	ug/l #	82
12) 1,1-Dichloroethene	1.87	96	20292	5.178	ug/l #	77
13) Acrolein	2.09	56	6610	27.597	ug/l	92
14) Allyl chloride	2.19	41	30762	4.892	ug/l	83
15) Acrylonitrile	3.07	53	12391	26.851	ug/l	94
16) Acetone	2.34	43	29401	22.752	ug/l	100
17) Carbon Disulfide	1.85	76	52033m	4.747	ug/l	
18) Methyl Acetate	2.46	43	10747	5.916	ug/l #	80
19) Methyl tert-butyl Ether	2.55	73	39320	4.034	ug/l	95
20) Methylene Chloride	2.28	84	24180	6.113	ug/l #	86
21) trans-1,2-Dichloroethene	2.42	96	19043	5.006	ug/l	90
22) Diisopropyl ether	2.93	45	51615	4.598	ug/l #	92
23) Vinyl Acetate	3.34	43	88829	24.177	ug/l #	94
24) 1,1-Dichloroethane	3.01	63	37983	4.501	ug/l	97
25) 2-Butanone	4.52	43	52455m	50.587	ug/l	
26) 2,2-Dichloropropane	3.78	77	23025	4.102	ug/l	93
27) cis-1,2-Dichloroethene	3.65	96	20958	5.543	ug/l	95
28) Bromochloromethane	3.91	49	14245	5.436	ug/l	90
29) Tetrahydrofuran	4.26	42	14117	34.770	ug/l #	82
30) Chloroform	4.06	83	45923	4.602	ug/l	86
31) Cyclohexane	3.88	56	23920	5.328	ug/l	91
32) 1,1,1-Trichloroethane	4.30	97	34796	3.840	ug/l	91
36) 1,1-Dichloropropene	4.47	75	29167	4.273	ug/l	93
37) Ethyl Acetate	4.29	43	12180	5.409	ug/l #	89
38) Carbon Tetrachloride	4.18	117	37277	3.751	ug/l	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.64	83	29959	5.214	ug/l	98
40) Benzene	4.82	78	59076	5.089	ug/l	97
41) Methacrylonitrile	4.93	41	5455	4.706	ug/l #	89
42) 1,2-Dichloroethane	5.13	62	25940	3.662	ug/l	96
43) Isopropyl Acetate	7.12	43	12700	5.231	ug/l #	86
44) Trichloroethene	5.68	130	19644	4.937	ug/l	88
45) 1,2-Dichloropropane	6.42	63	13629	4.685	ug/l	97
46) Dibromomethane	6.26	93	10604	3.967	ug/l	85
47) Bromodichloromethane	6.56	83	28495	3.859	ug/l #	89
48) Methyl methacrylate	6.88	41	6235	3.468	ug/l #	83
49) 1,4-Dioxane	6.89	88	1191	75.220	ug/l #	75
51) 4-Methyl-2-Pentanone	8.41	43	44592	24.130	ug/l #	86
52) Toluene	7.79	92	36881	4.825	ug/l	96
53) t-1,3-Dichloropropene	8.43	75	22610	4.093	ug/l	96
54) cis-1,3-Dichloropropene	7.47	75	25821	4.465	ug/l	90
55) 1,1,2-Trichloroethane	8.65	97	11106	4.676	ug/l	87
56) Ethyl methacrylate	8.78	69	12654	4.876	ug/l	87
57) 1,3-Dichloropropane	9.00	76	19362	4.605	ug/l #	85
58) 2-Chloroethyl Vinyl ether	7.78	63	6395	19.095	ug/l	100
59) 2-Hexanone	9.64	43	39298	28.551	ug/l	92
60) Dibromochloromethane	8.88	129	17300	3.922	ug/l	88
61) 1,2-Dibromoethane	9.15	107	13612	4.847	ug/l	91
64) Tetrachloroethene	8.32	164	16605	4.854	ug/l	95
65) Chlorobenzene	9.95	112	41310	4.902	ug/l	90
66) 1,1,1,2-Tetrachloroethane	10.08	131	18187	4.321	ug/l	97
67) Ethyl Benzene	10.05	91	77832	4.592	ug/l	97
68) m/p-Xylenes	10.29	106	53905	10.045	ug/l	100
69) o-Xylene	10.84	106	30007	4.935	ug/l	91
70) Styrene	10.91	104	43276	5.090	ug/l	99
71) Bromoform	10.90	173	9021	3.979	ug/l #	83
73) Isopropylbenzene	11.23	105	96521	5.364	ug/l	98
74) N-amyl acetate	11.48	43	18856	5.772	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.79	83	14446	5.411	ug/l	97
76) 1,2,3-Trichloropropane	11.89	75	11271	4.968	ug/l	89
77) Bromobenzene	11.61	156	20163	5.327	ug/l	81
78) n-propylbenzene	11.69	91	113811	5.424	ug/l	99
79) 2-Chlorotoluene	11.82	91	66065	5.197	ug/l	97
80) 1,3,5-Trimethylbenzene	11.92	105	79466	5.046	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.96	75	3681m	3.863	ug/l	
82) 4-Chlorotoluene	12.00	91	71336	5.300	ug/l	96
83) tert-Butylbenzene	12.23	119	78699	5.014	ug/l	98
84) 1,2,4-Trimethylbenzene	12.30	105	83781	5.374	ug/l	95
85) sec-Butylbenzene	12.39	105	109383	5.136	ug/l	94
86) p-Isopropyltoluene	12.54	119	88931	4.937	ug/l	97
87) 1,3-Dichlorobenzene	12.56	146	44108	5.757	ug/l	86
88) 1,4-Dichlorobenzene	12.65	146	39365	5.337	ug/l	97
89) n-Butylbenzene	12.93	91	96799	5.045	ug/l	94
90) Hexachloroethane	13.01	117	21064	4.470	ug/l	80
91) 1,2-Dichlorobenzene	13.03	146	38930	5.301	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	13.73	75	2765	4.264	ug/l	92

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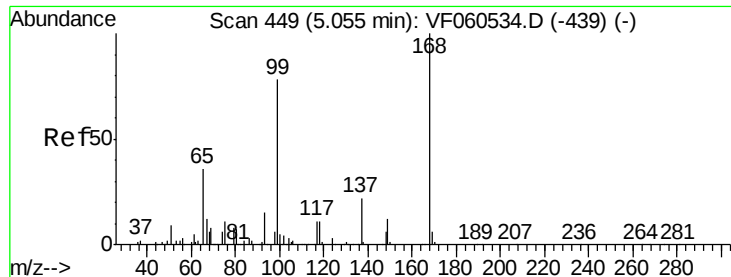
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	29463	5.013	ug/l	97
94) Hexachlorobutadiene	14.27	225	19435	4.487	ug/l	98
95) Naphthalene	14.53	128	46661	4.938	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.68	180	25383	4.688	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 449

Delta R.T. 0.01 min

Lab File: VF060531.D

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Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 288132

Ion Ratio Lower Upper

168 100

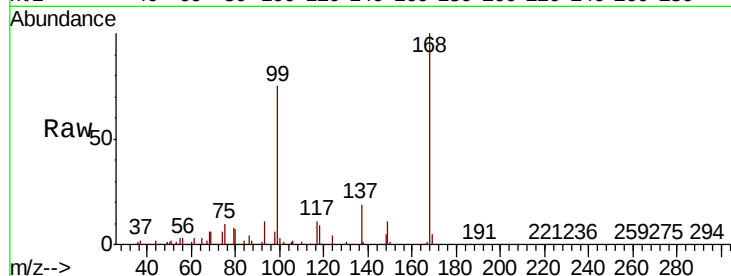
99 75.4 62.6 93.8

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

100000

80000

60000

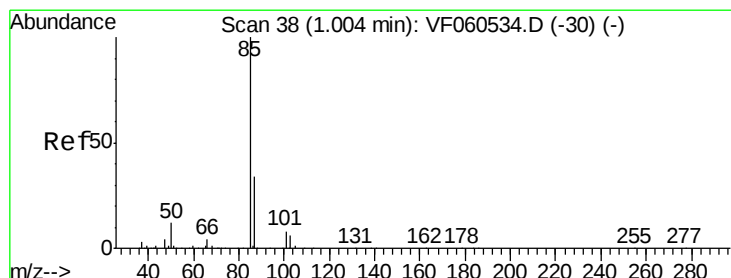
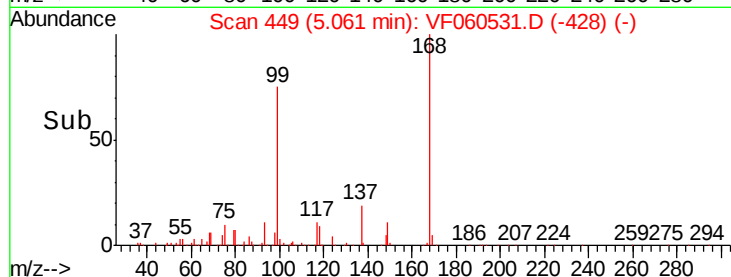
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 3.836 ug/l

RT: 1.00 min Scan# 37

Delta R.T. -0.00 min

Lab File: VF060531.D

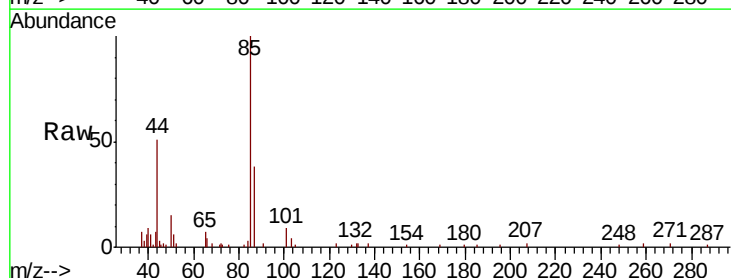
Acq: 29 Oct 2018 15:58

Tgt Ion: 85 Resp: 28492

Ion Ratio Lower Upper

85 100

87 37.5 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

10000

8000

6000

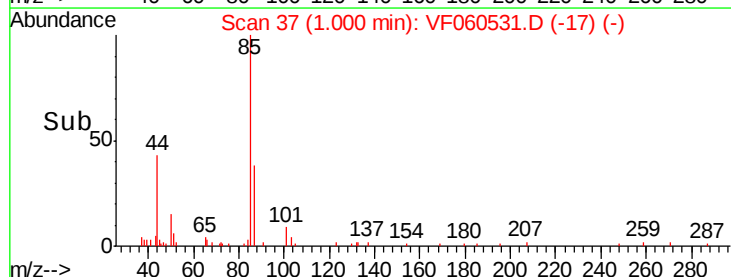
4000

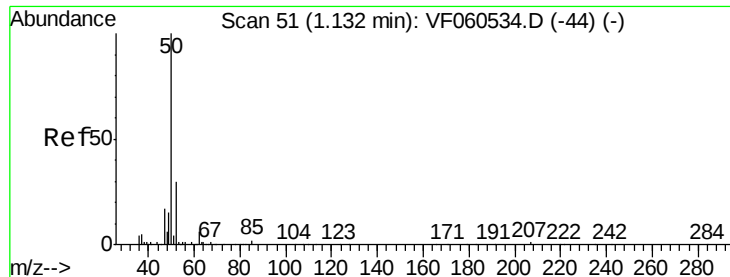
2000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 5.416 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.02 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 19375

Ion Ratio Lower Upper

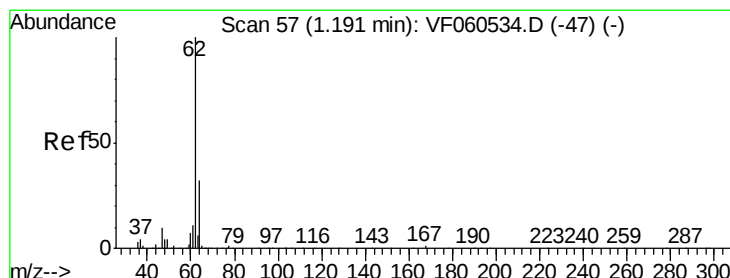
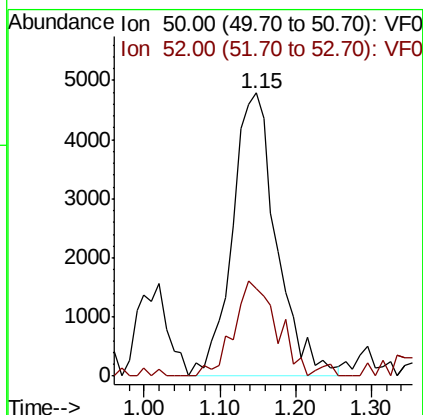
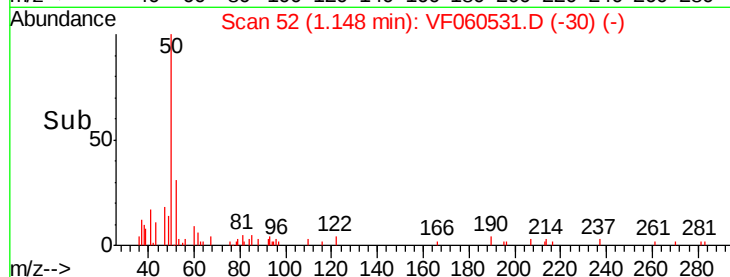
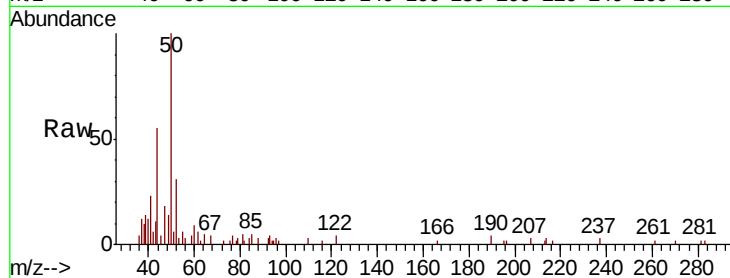
50 100

52 30.9 22.8 34.2

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#4

Vinyl Chloride

Concen: 4.650 ug/l

RT: 1.20 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF060531.D

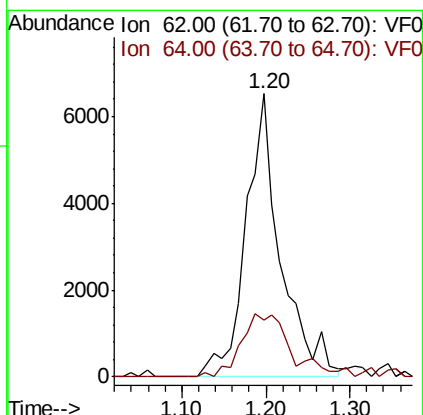
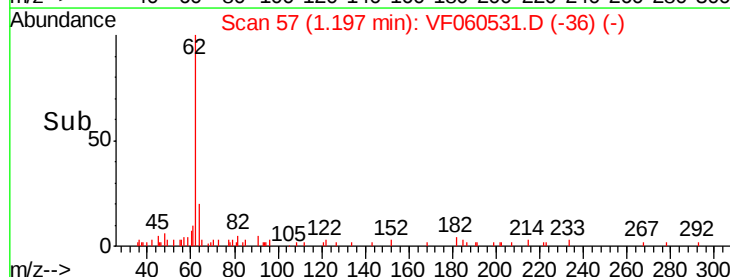
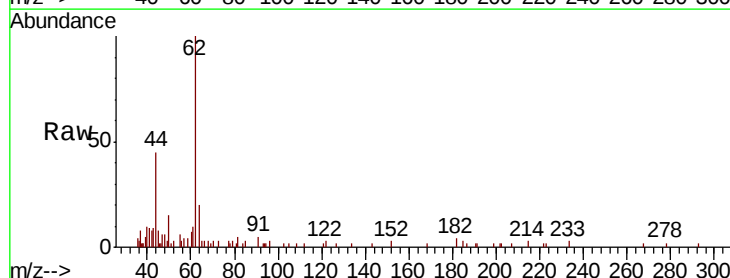
Acq: 29 Oct 2018 15:58

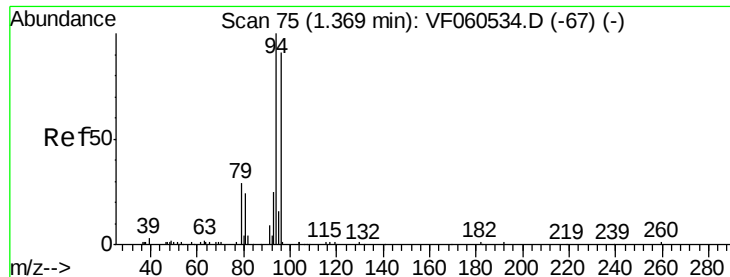
Tgt Ion: 62 Resp: 18833

Ion Ratio Lower Upper

62 100

64 20.2 25.3 37.9#





#5

Bromomethane

Concen: 4.262 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.02 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 16923

Ion Ratio Lower Upper

94 100

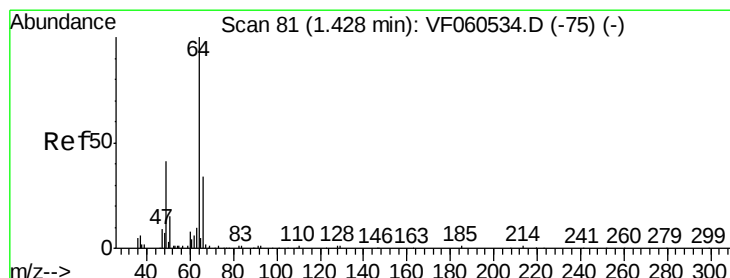
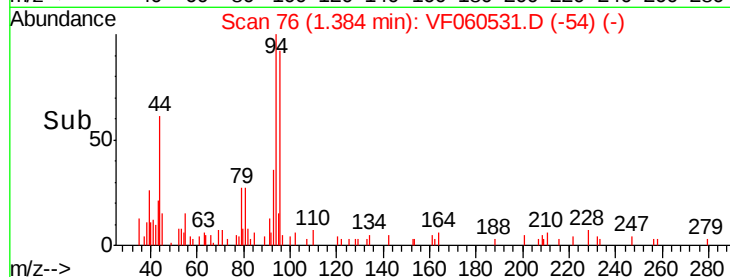
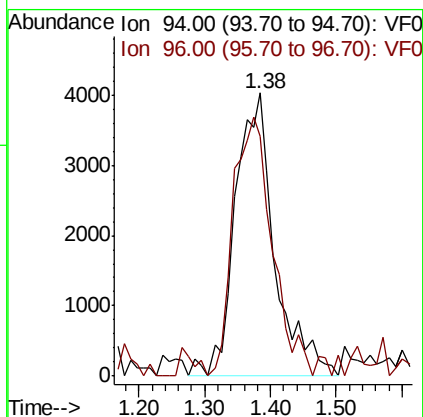
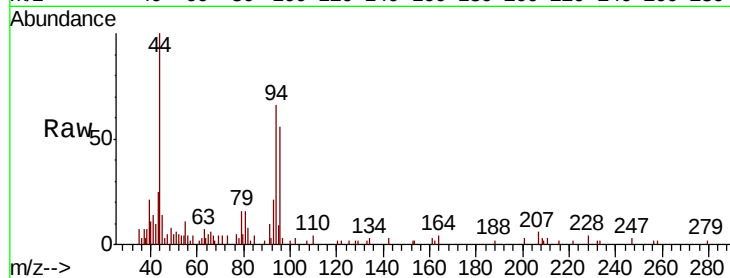
96 89.4 73.2 109.8

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#6

Chloroethane

Concen: 4.386 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF060531.D

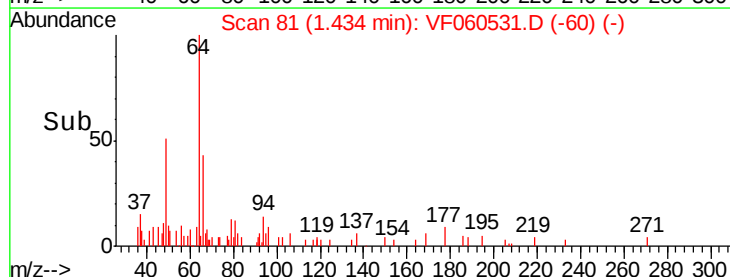
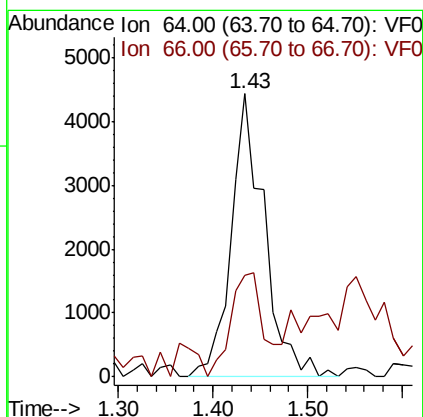
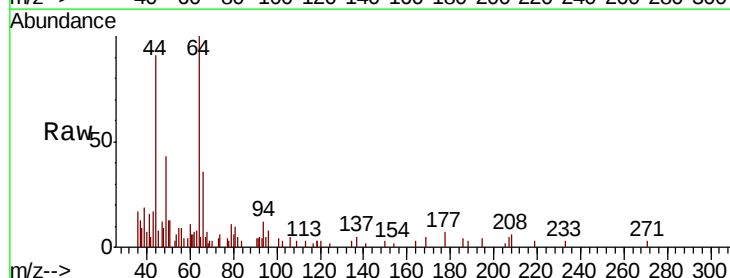
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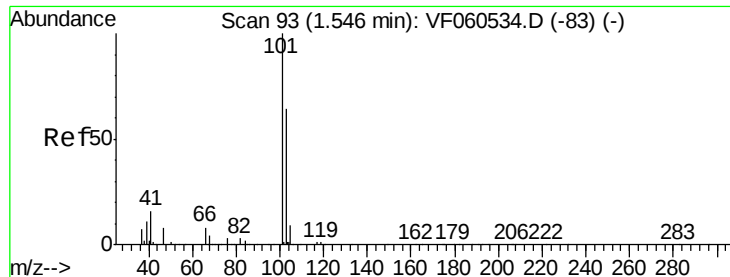
Tgt Ion: 64 Resp: 10754

Ion Ratio Lower Upper

64 100

66 36.1 27.1 40.7





#7

Trichlorofluoromethane

Concen: 3.991 ug/l

RT: 1.55 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF060531.D

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VSTDIC005

Tot Ion:101 Resp: 49819

Ion Ratio Lower Upper

101 100

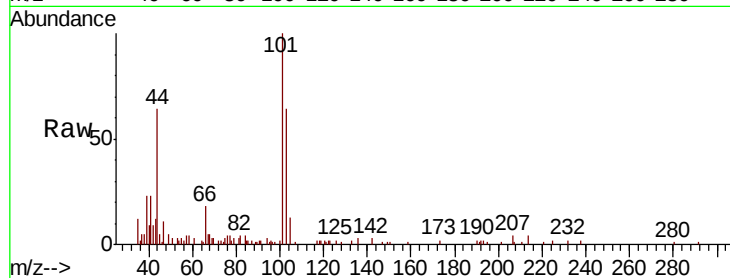
103 63.5 51.6 77.4

Manual Integrations

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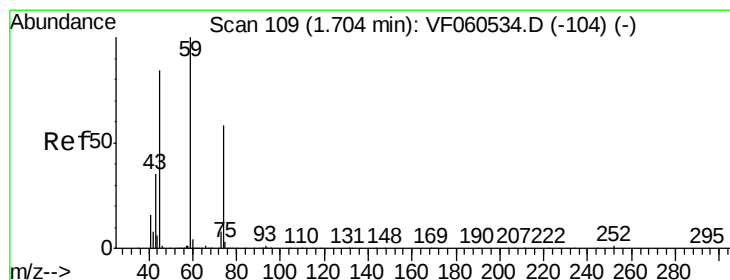
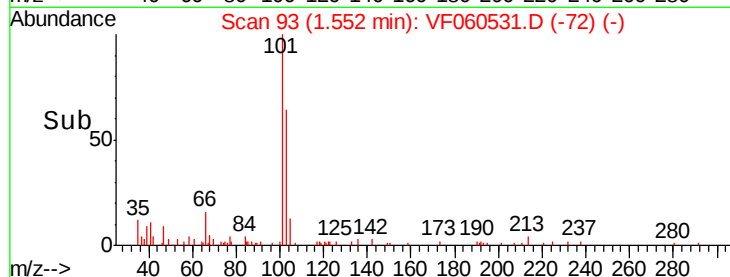
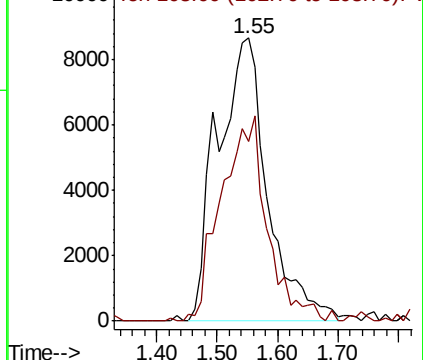
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 5.061 ug/l

RT: 1.71 min Scan# 109

Delta R.T. 0.01 min

Lab File: VF060531.D

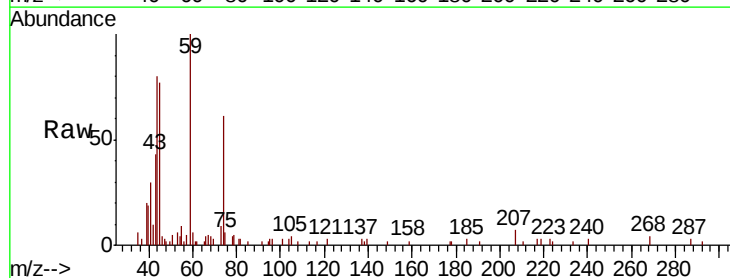
Acq: 29 Oct 2018 15:58

Tgt Ion: 74 Resp: 6140

Ion Ratio Lower Upper

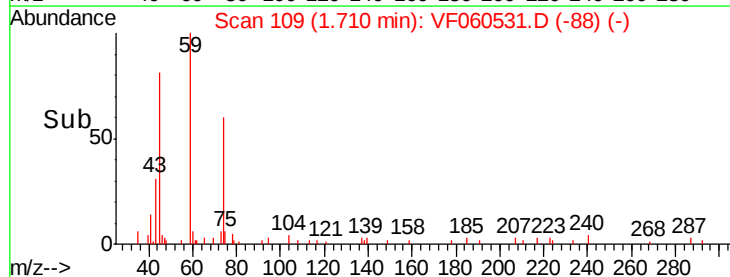
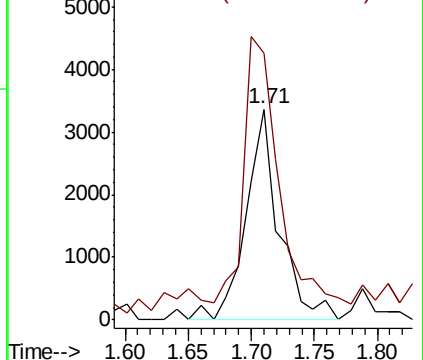
74 100

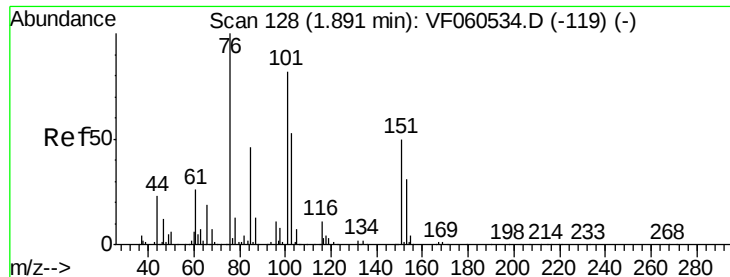
45 126.7 72.9 218.6



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: 4.636 ug/l

RT: 1.91 min Scan# 129

Delta R.T. 0.02 min

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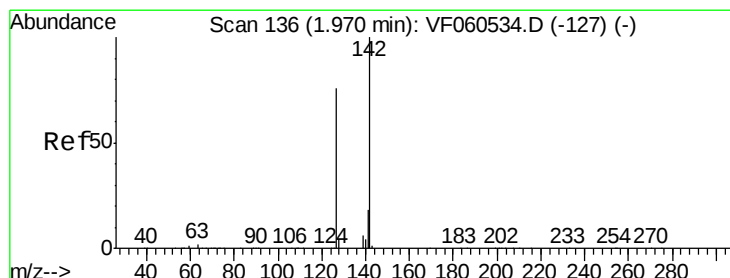
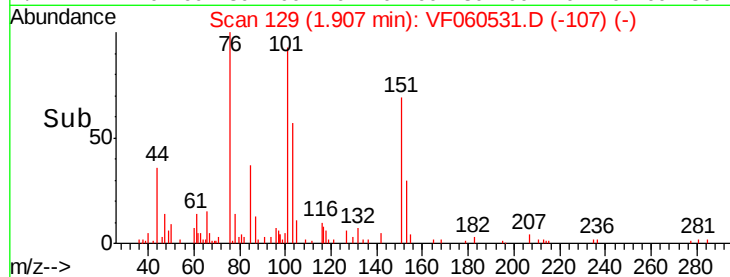
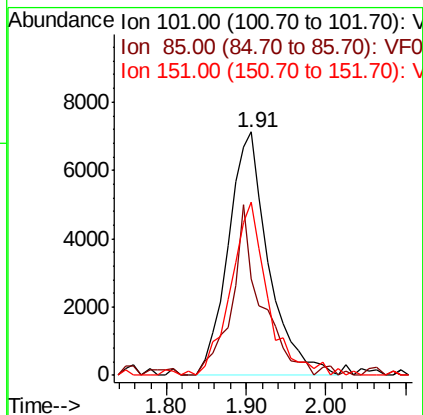
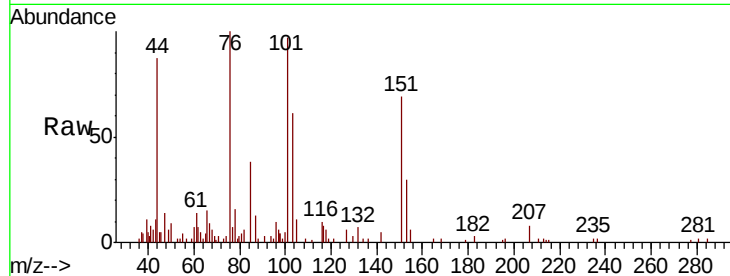
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	24987
Ion Ratio	Lower	Upper	
101	100		
85	39.5	44.6	67.0#
151	71.3	48.4	72.6

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#10

Methyl Iodide

Concen: 4.486 ug/l

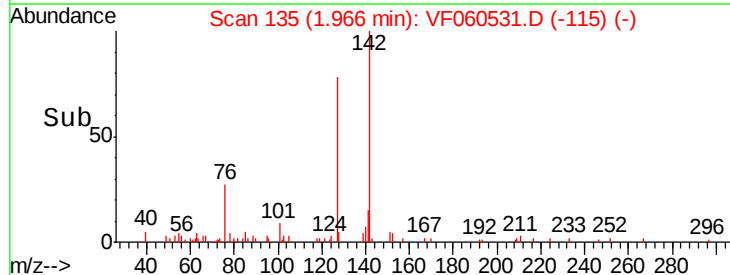
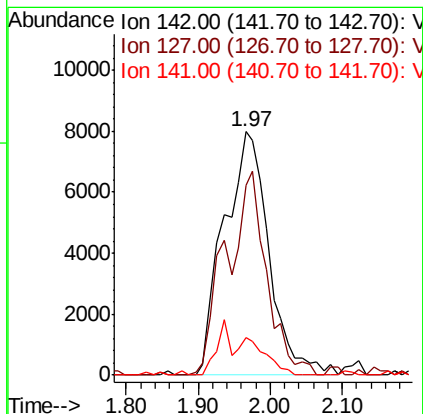
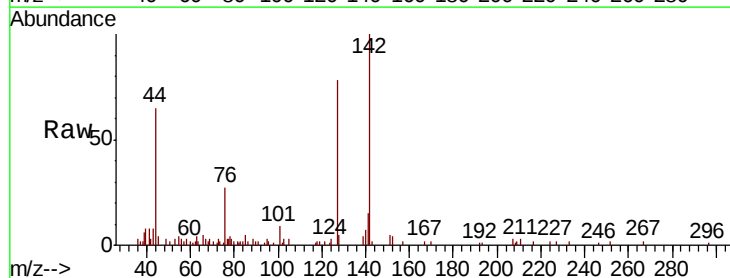
RT: 1.97 min Scan# 135

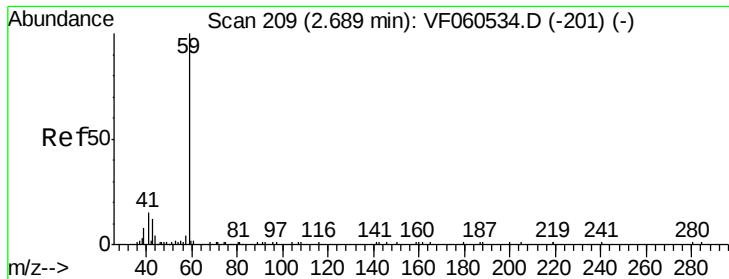
Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion:	142	Resp:	34642
Ion Ratio	Lower	Upper	
142	100		
127	77.7	61.2	91.8
141	15.2	14.0	21.0





#11

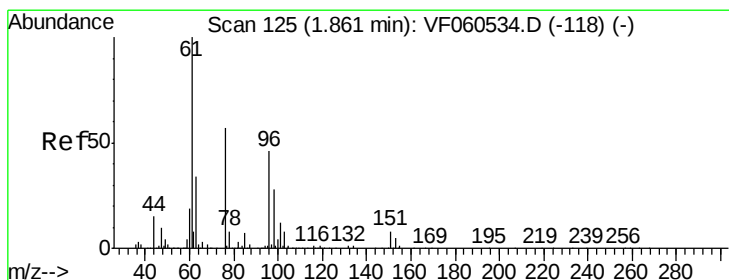
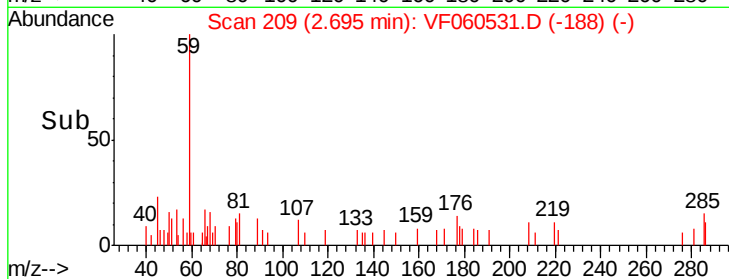
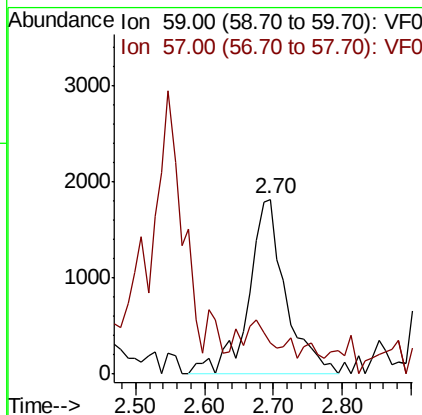
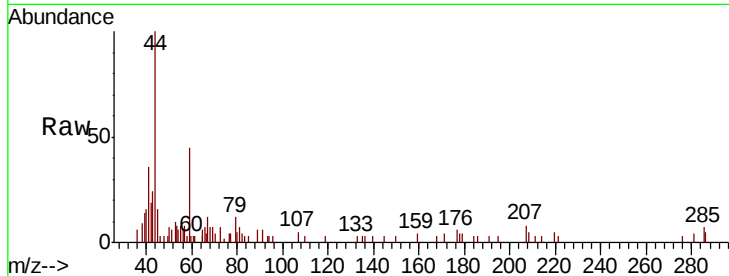
Tert butyl alcohol
Concen: 23.521 ug/l
RT: 2.70 min Scan# 209
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	17.9	8.9	13.3#

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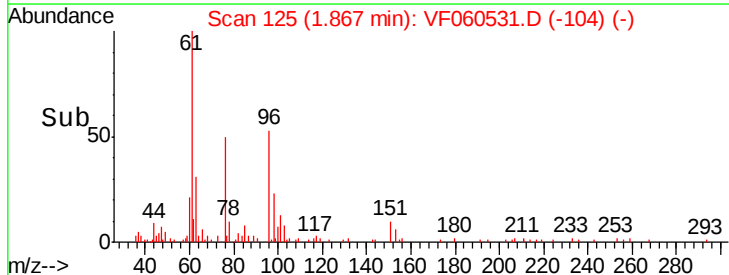
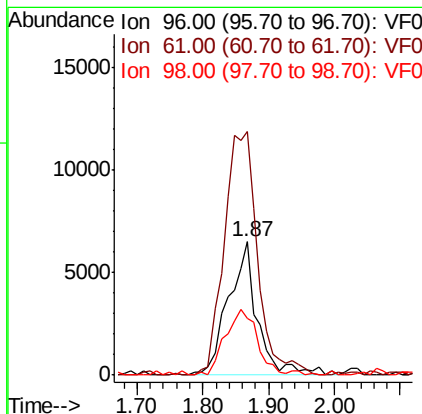
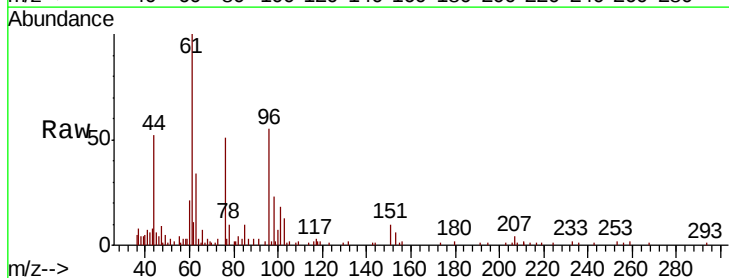
apatel
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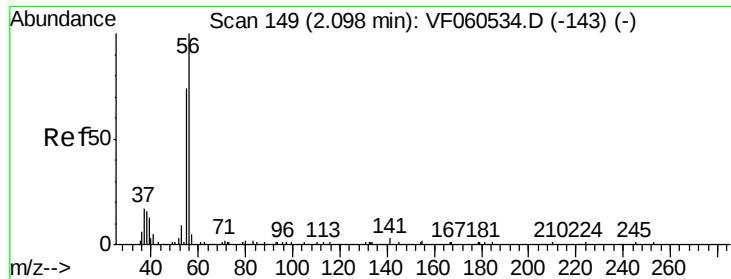


#12

1,1-Dichloroethene
Concen: 5.178 ug/l
RT: 1.87 min Scan# 125
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	182.4	175.4	263.2
98	42.8	48.9	73.3#





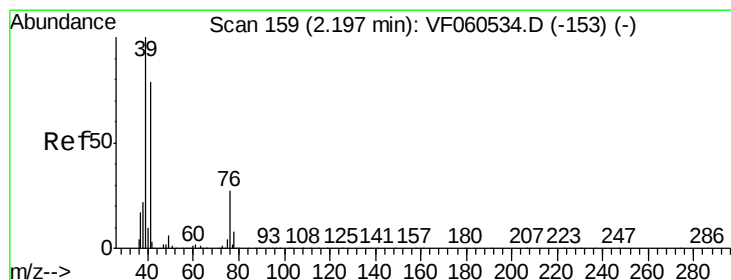
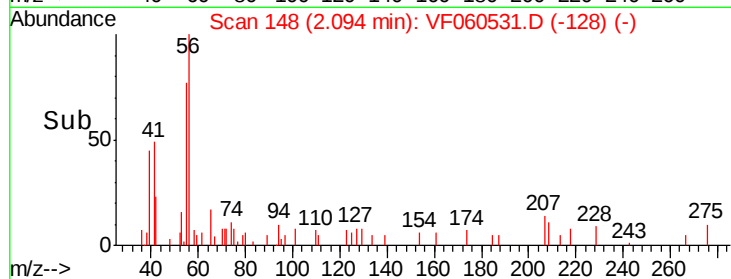
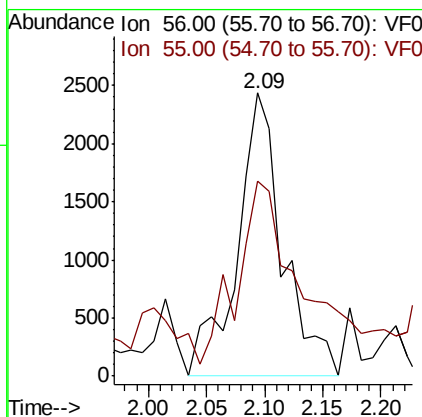
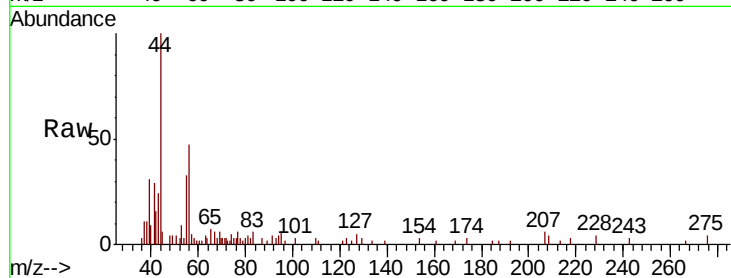
#13
Acrolein
Concen: 27.597 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 56 Resp: 6610
Ion Ratio Lower Upper
56 100
55 68.9 60.4 90.6

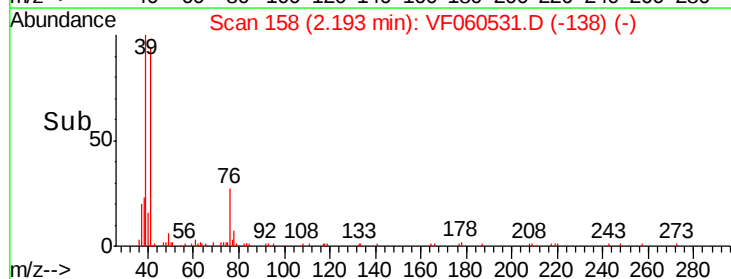
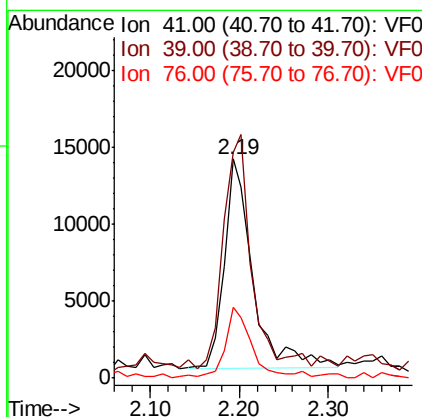
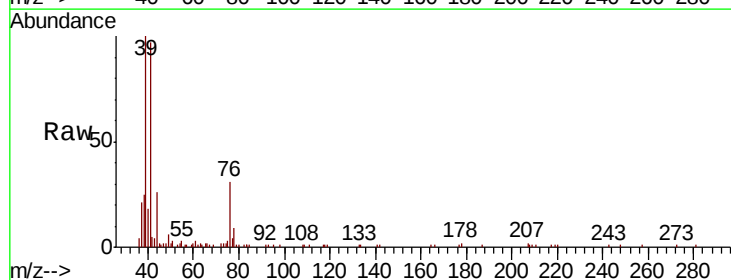
Manual Integrations
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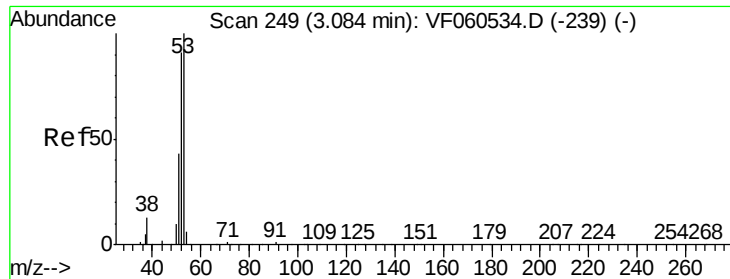
apatel
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#14
Allyl chloride
Concen: 4.892 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion: 41 Resp: 30762
Ion Ratio Lower Upper
41 100
39 102.9 100.6 151.0
76 32.3 27.6 41.4





#15

Acrylonitrile

Concen: 26.851 ug/l

RT: 3.07 min Scan# 247

Delta R.T. -0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

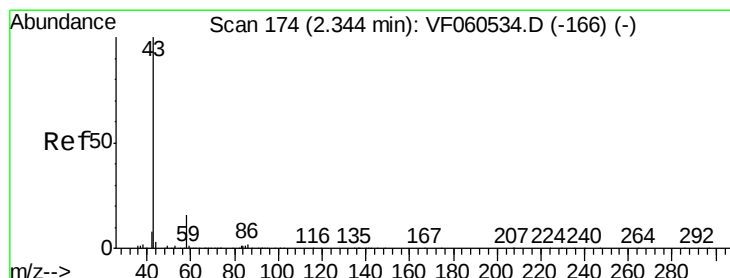
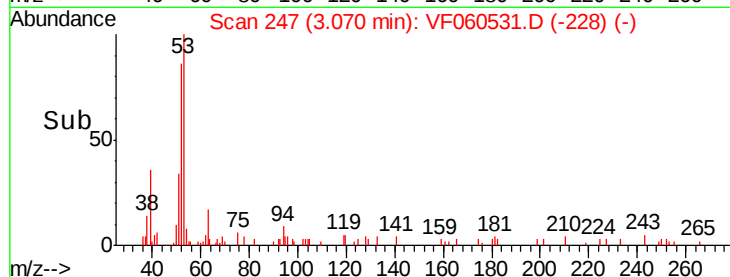
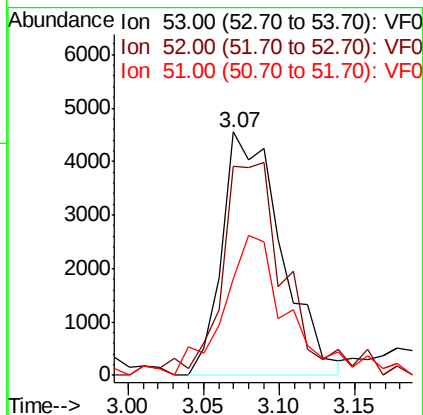
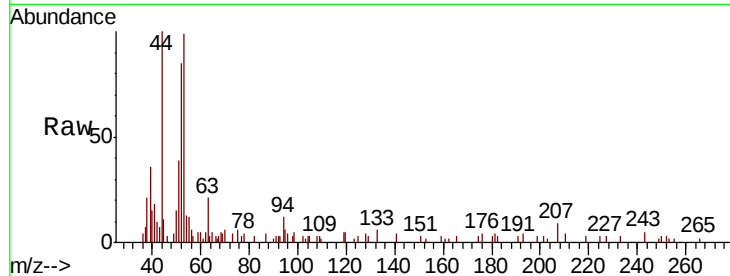
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	12391
Ion Ratio	Lower	Upper	
53	100		
52	85.6	73.2	109.8
51	39.6	35.0	52.4

Manual Integrations
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#16

Acetone

Concen: 22.752 ug/l

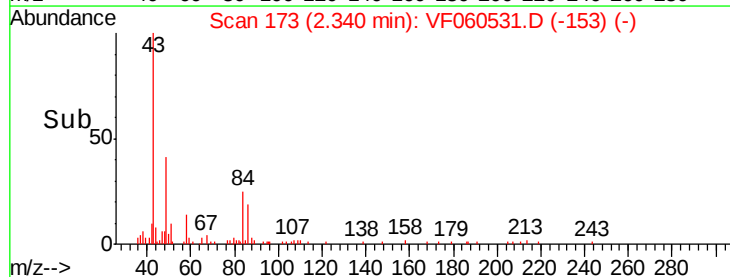
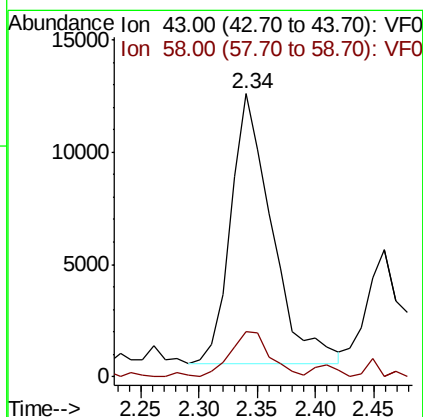
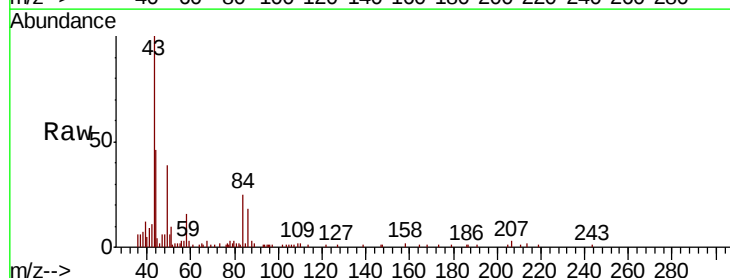
RT: 2.34 min Scan# 173

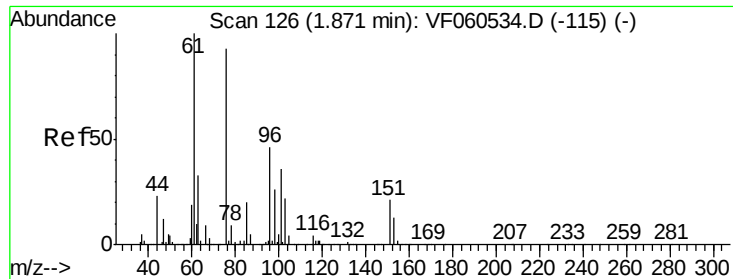
Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion:	43	Resp:	29401
Ion Ratio	Lower	Upper	
43	100		
58	16.1	12.8	19.2





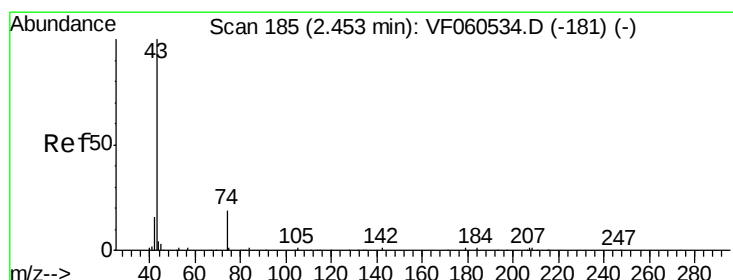
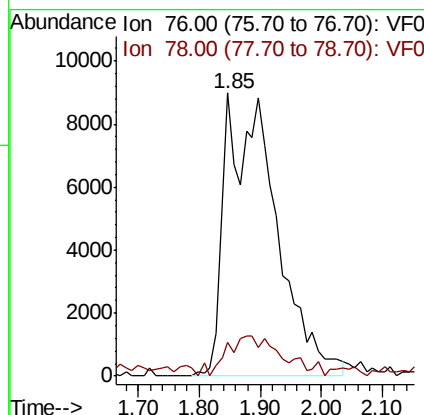
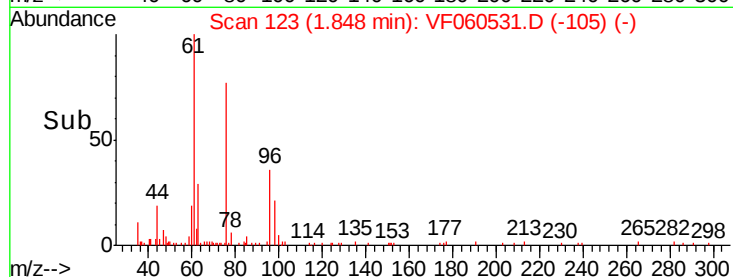
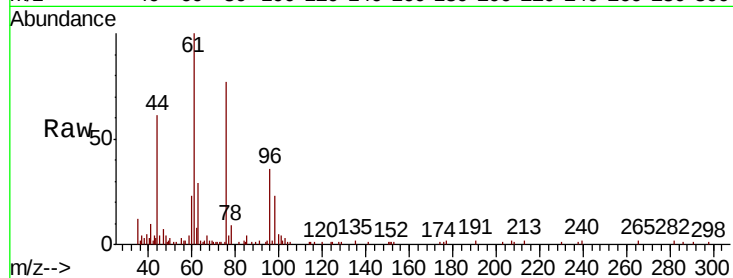
#17
Carbon Disulfide
Concen: 4.747 ug/l m
RT: 1.85 min Scan# 123
Delta R.T. -0.02 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.9	8.0	12.0

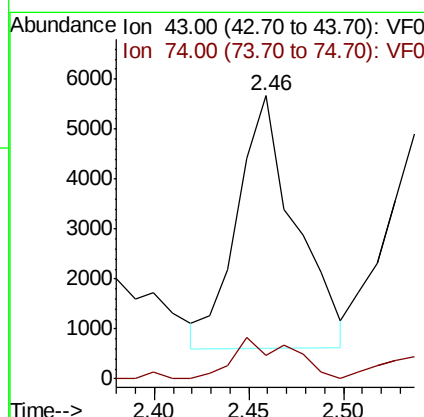
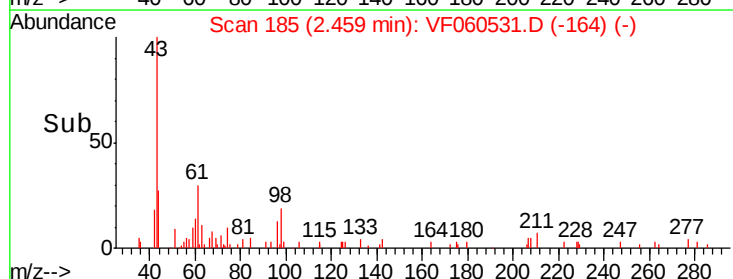
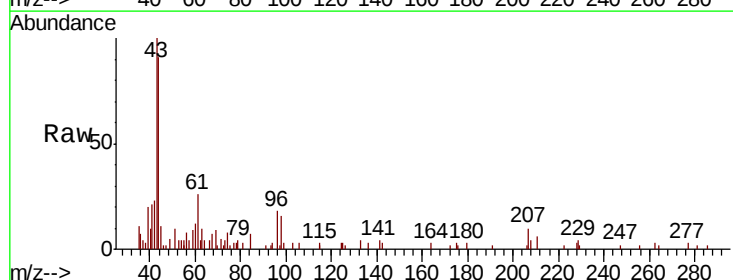
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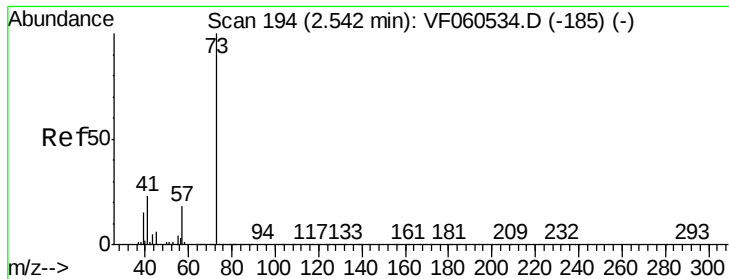
apatel
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#18
Methyl Acetate
Concen: 5.916 ug/l
RT: 2.46 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	8.4	13.5	20.3#





#19

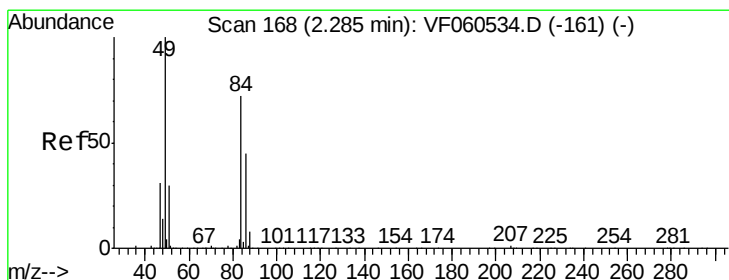
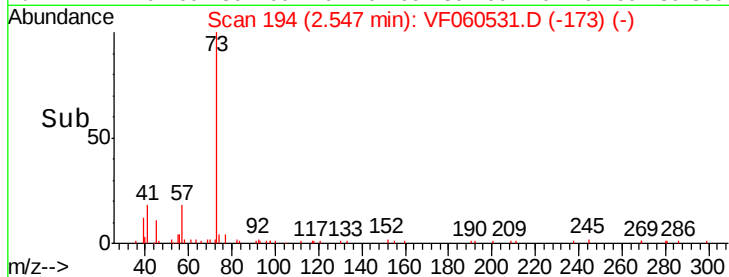
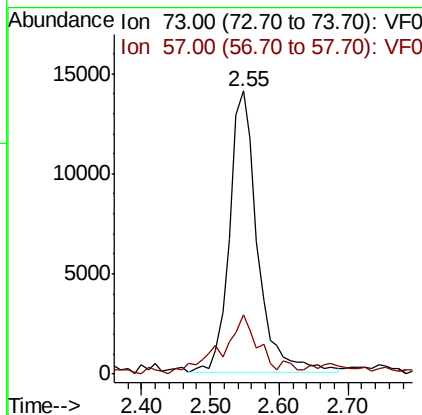
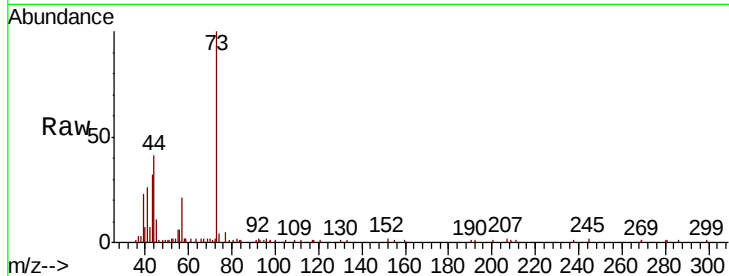
Methvl tert-butvl Ether
 Concen: 4.034 ug/l
 RT: 2.55 min Scan# 194
 Delta R.T. 0.01 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.8	14.7	22.1

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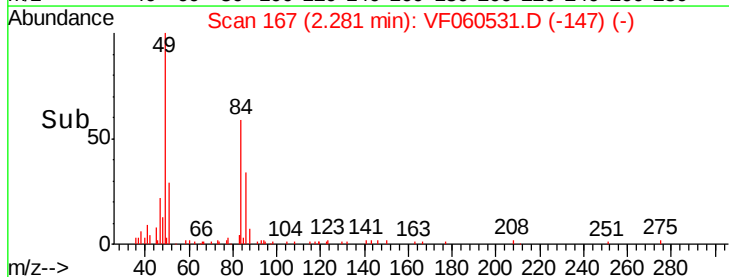
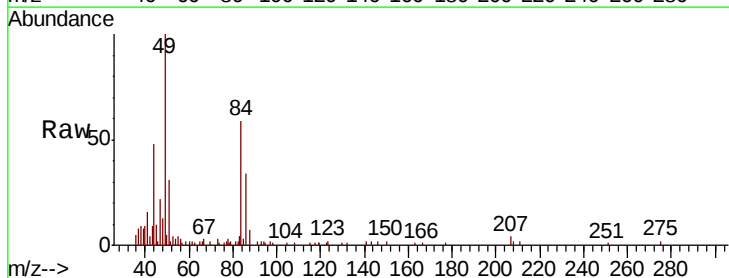
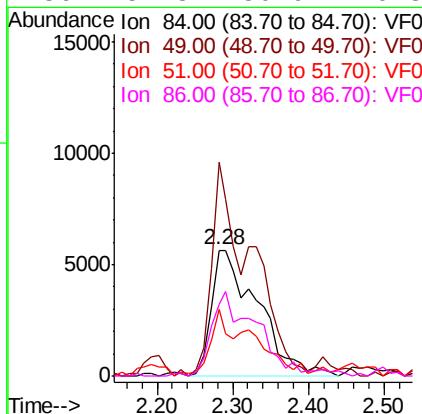
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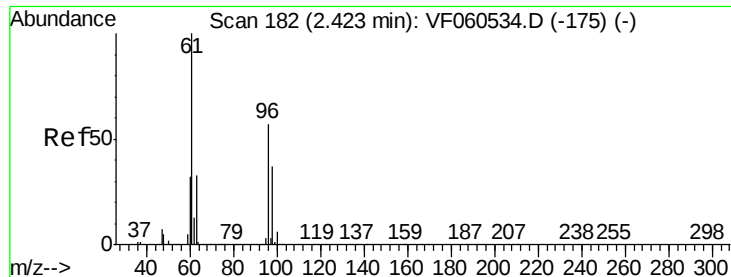


#20

Methylene Chloride
 Concen: 6.113 ug/l
 RT: 2.28 min Scan# 167
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	162.5	115.4	173.0
51	54.6	35.4	53.2
86	54.8	50.9	76.3





#21

trans-1,2-Dichloroethene

Concen: 5.006 ug/l

RT: 2.42 min Scan# 181

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

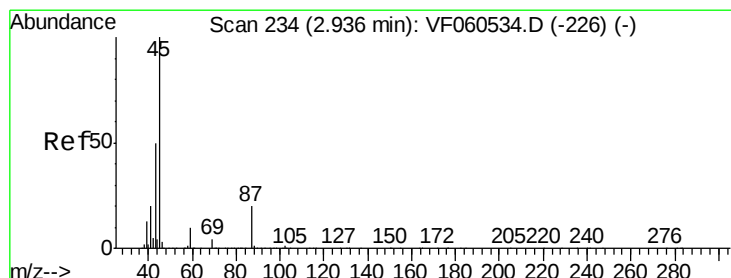
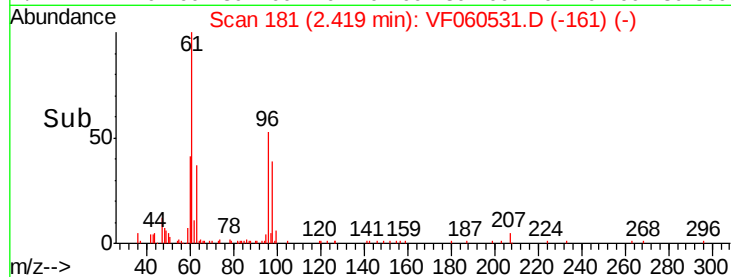
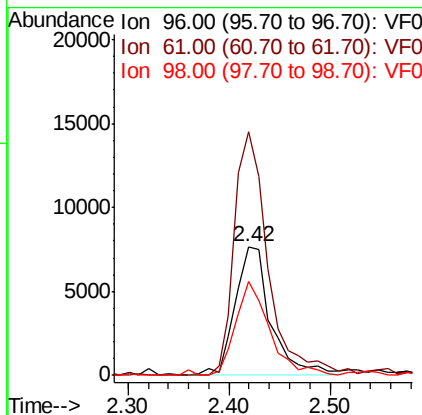
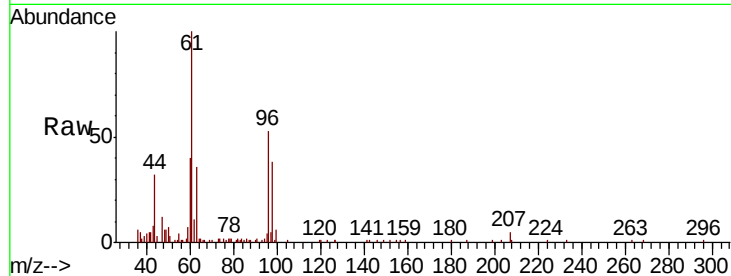
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	19043
Ion	Ratio	Lower	Upper
96	100		
61	188.9	139.8	209.6
98	72.4	52.2	78.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 4.598 ug/l

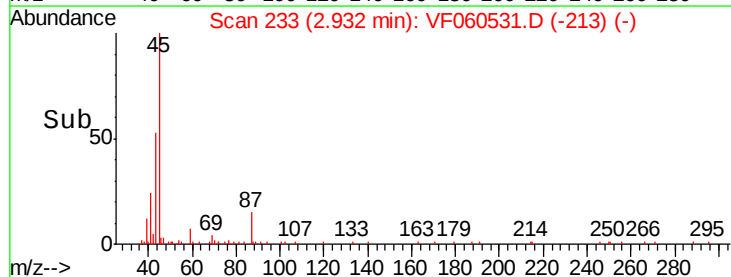
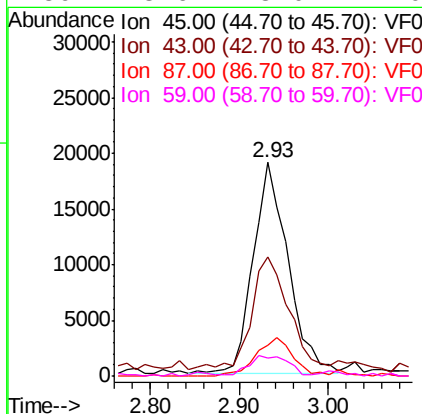
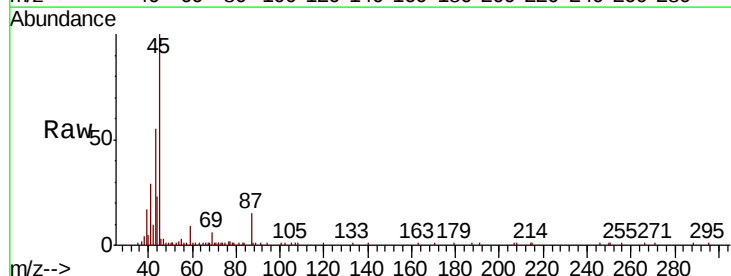
RT: 2.93 min Scan# 233

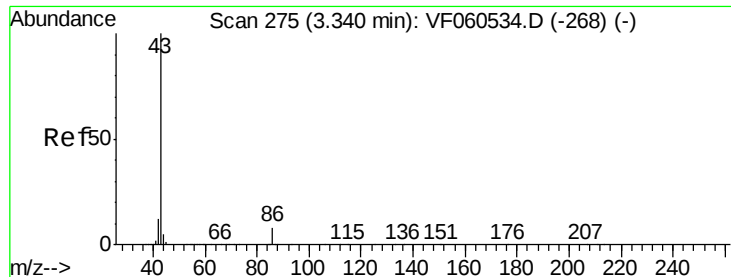
Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion:	45	Resp:	51615
Ion	Ratio	Lower	Upper
45	100		
43	55.5	40.6	60.8
87	14.5	15.9	23.9#
59	8.6	8.0	12.0





#23

Vinyl Acetate

Concen: 24.177 ug/l

RT: 3.34 min Scan# 274

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 88829

Ion Ratio Lower Upper

43 100

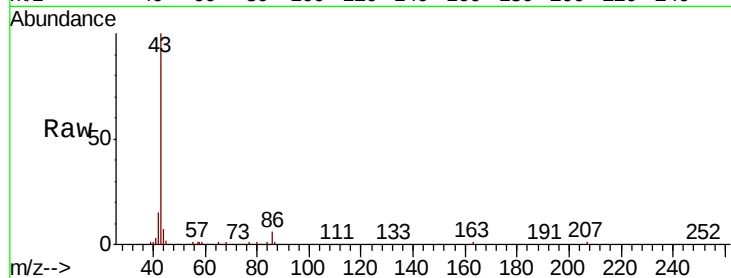
86 5.7 6.2 9.2#

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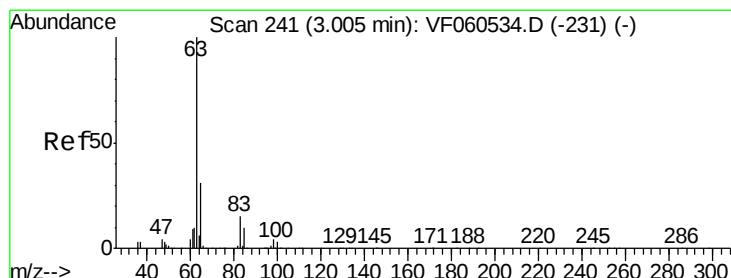
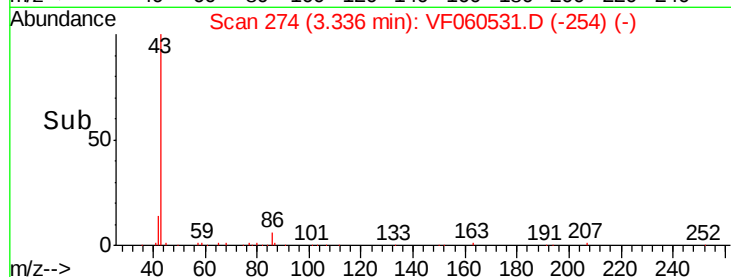
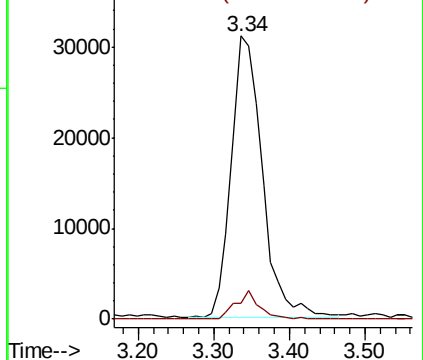
apatel

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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: 4.501 ug/l

RT: 3.01 min Scan# 241

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

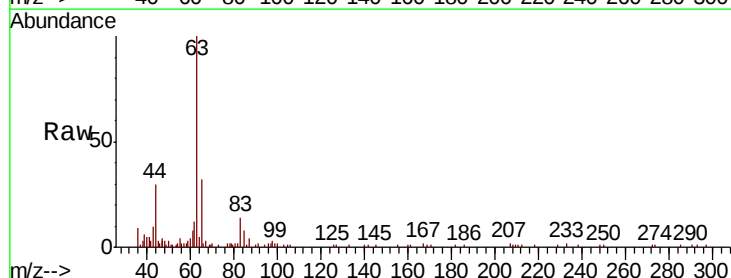
Tgt Ion: 63 Resp: 37983

Ion Ratio Lower Upper

63 100

98 3.1 2.0 6.0

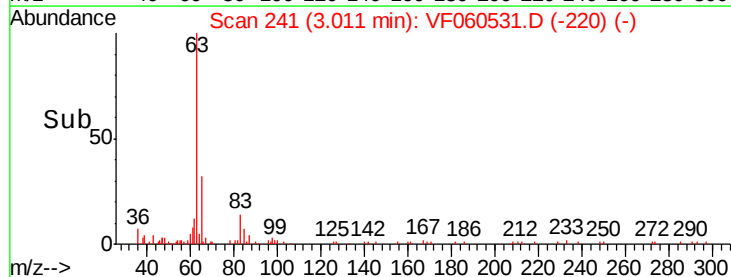
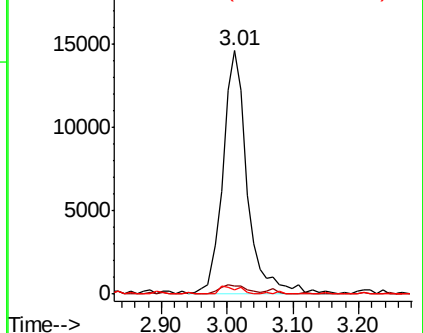
100 1.7 1.4 4.0

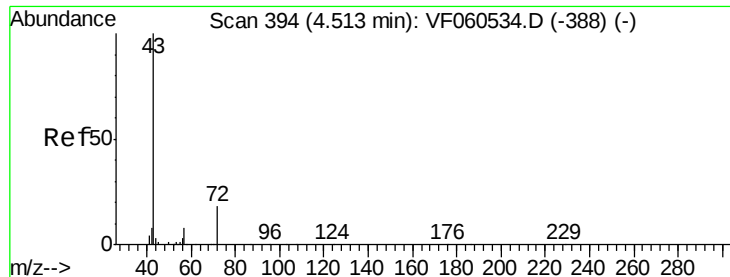


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 50.587 ug/l m

RT: 4.52 min Scan# 394

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 52455

Ion Ratio Lower Upper

43 100

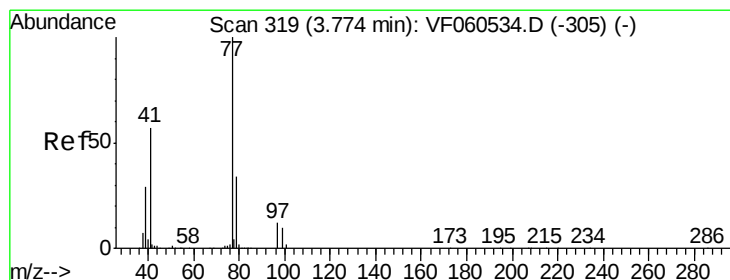
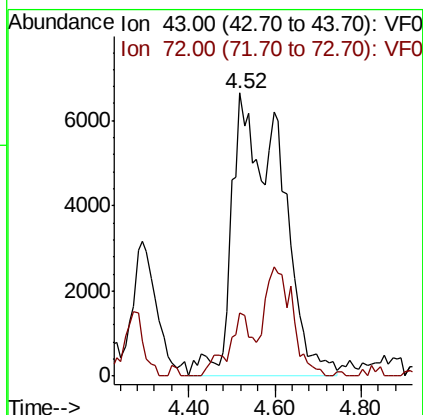
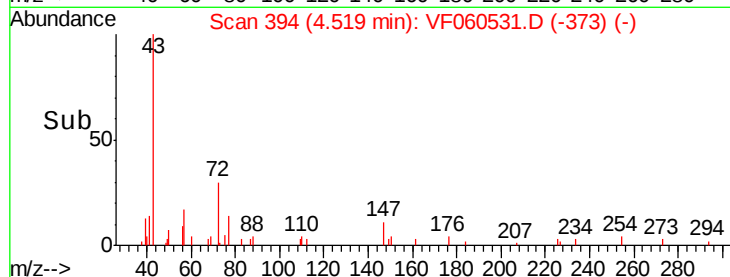
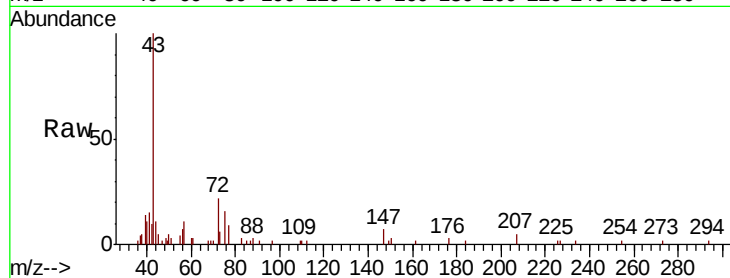
72 22.2 17.4 26.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.102 ug/l

RT: 3.78 min Scan# 319

Delta R.T. 0.01 min

Lab File: VF060531.D

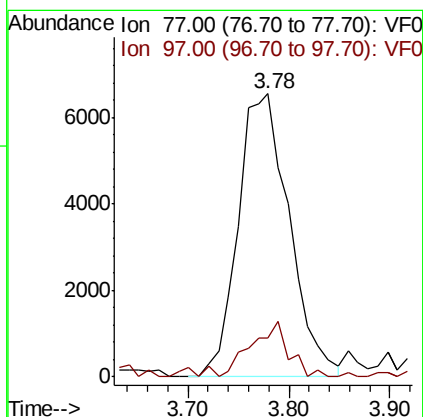
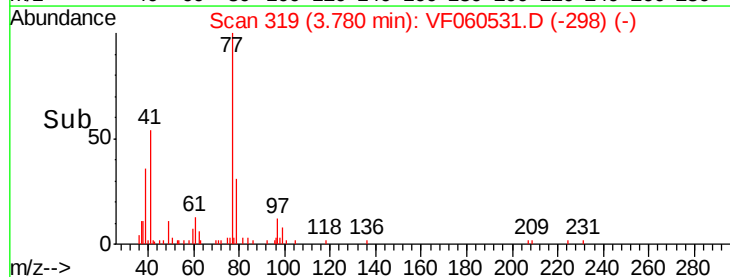
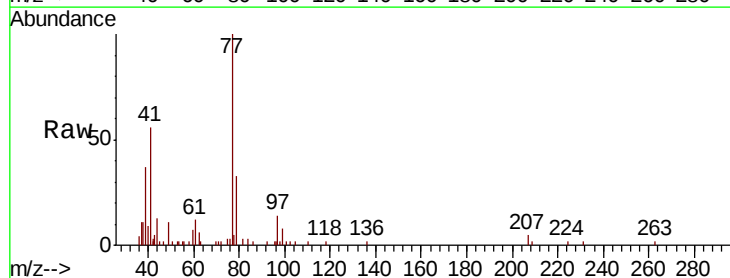
Acq: 29 Oct 2018 15:58

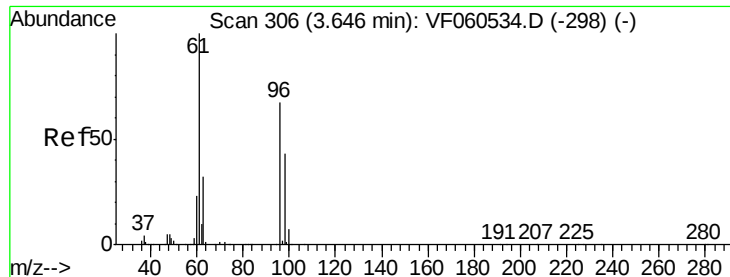
Tgt Ion: 77 Resp: 23025

Ion Ratio Lower Upper

77 100

97 13.9 8.5 25.5





#27

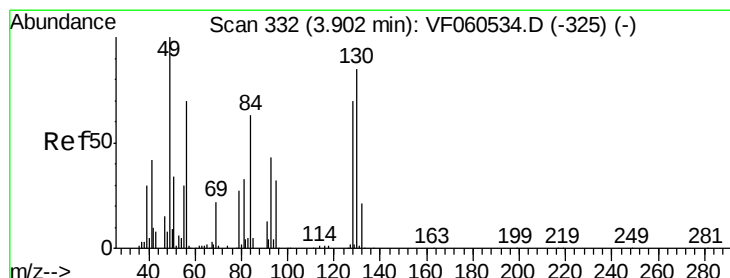
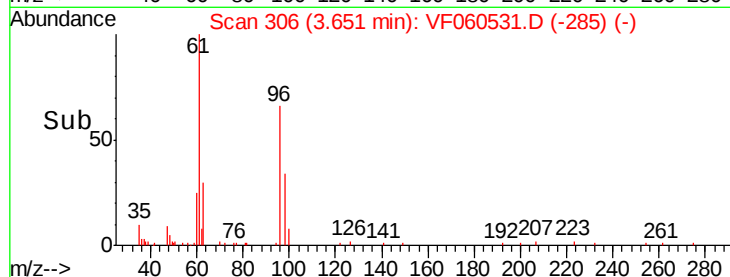
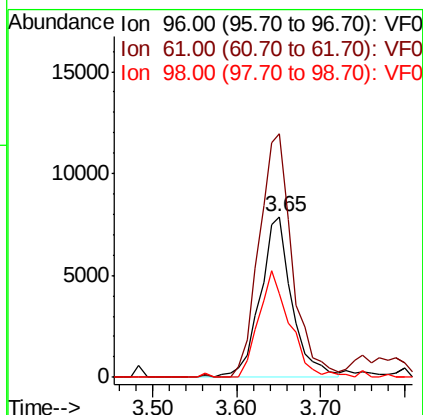
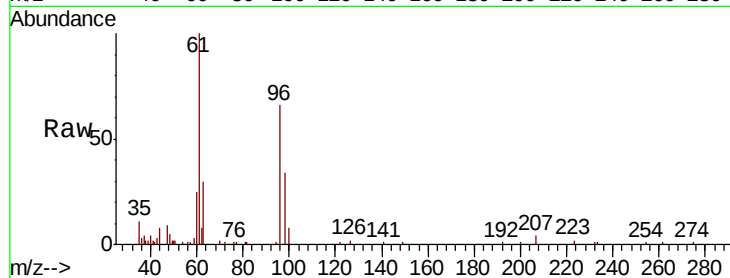
cis-1,2-Dichloroethene
Concen: 5.543 ug/l
RT: 3.65 min Scan# 306
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
96	100	20958		
61	151.2	0.0	300.8	
98	51.8	0.0	128.4	

Manual Integrations
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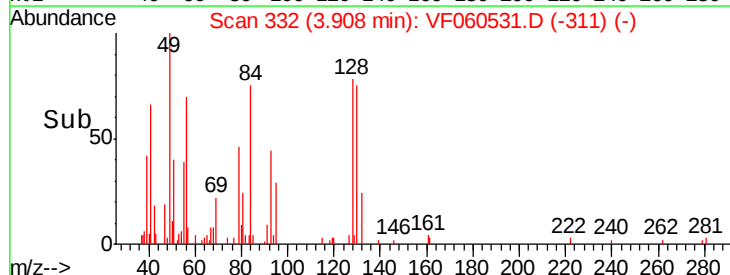
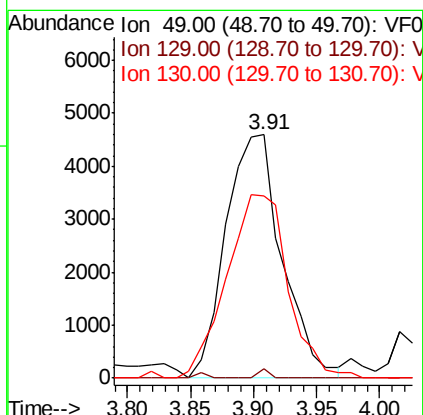
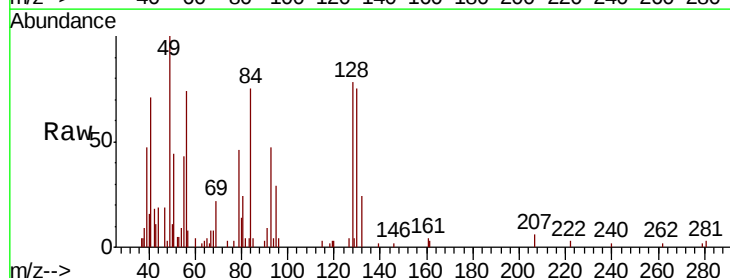
apatel
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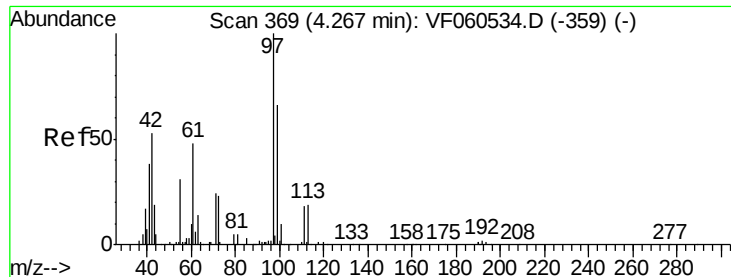


#28

Bromochloromethane
Concen: 5.436 ug/l
RT: 3.91 min Scan# 332
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	14245		
129	4.0	0.0	4.8	
130	74.7	67.5	101.3	





#29

Tetrahydrofuran

Concen: 34.770 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

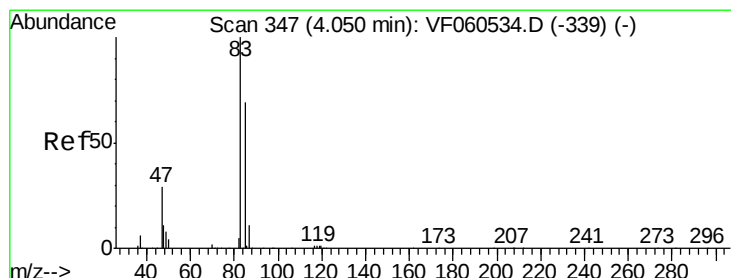
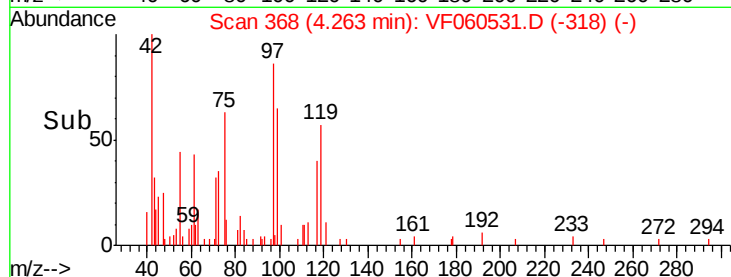
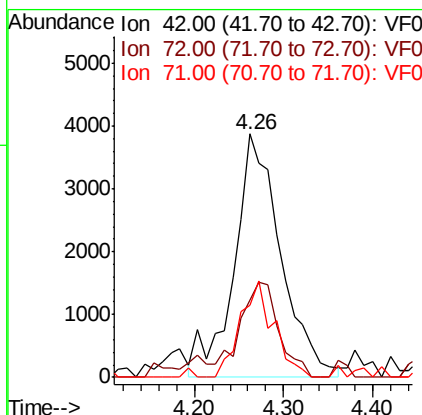
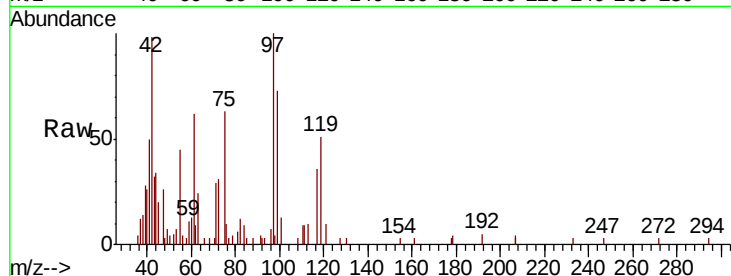
ClientSampleId :

VSTDIC005

Tot Ion:	42	Resp:	14117
Ion Ratio		Lower	Upper
42	100		
72	32.3	32.5	48.7#
71	28.4	34.5	51.7#

Manual Integrations
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apatel
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#30

Chloroform

Concen: 4.602 ug/l

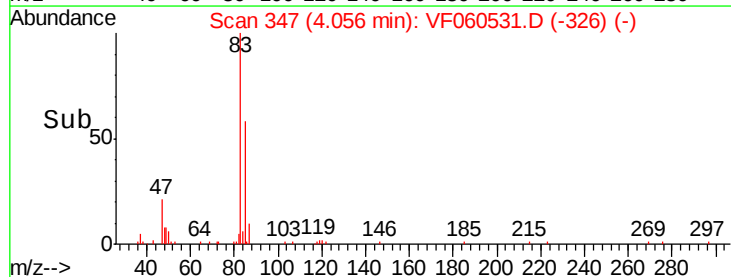
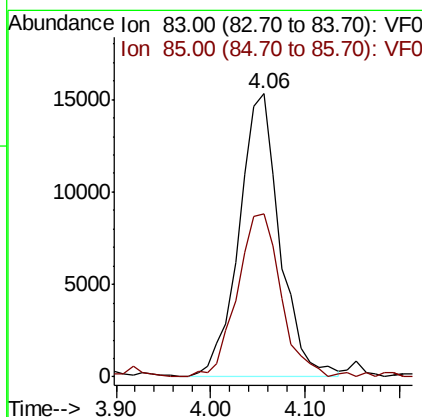
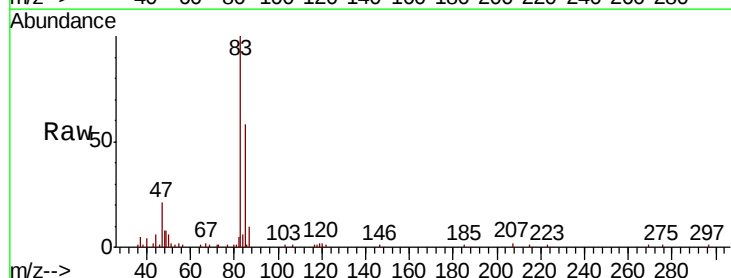
RT: 4.06 min Scan# 347

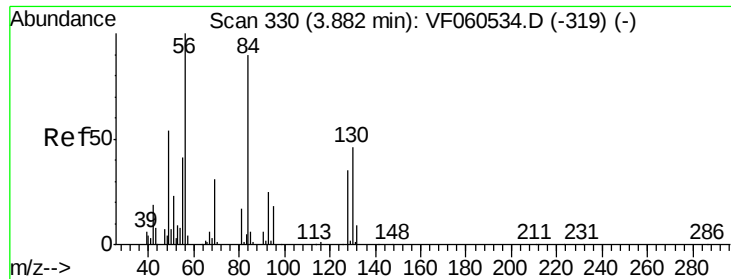
Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion:	83	Resp:	45923
Ion Ratio		Lower	Upper
83	100		
85	57.7	55.0	82.4





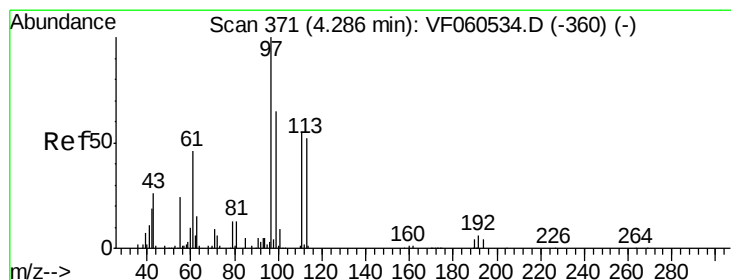
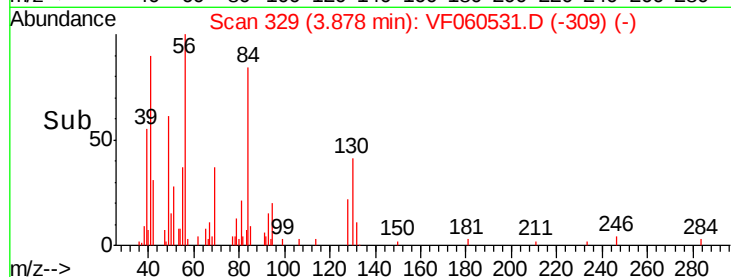
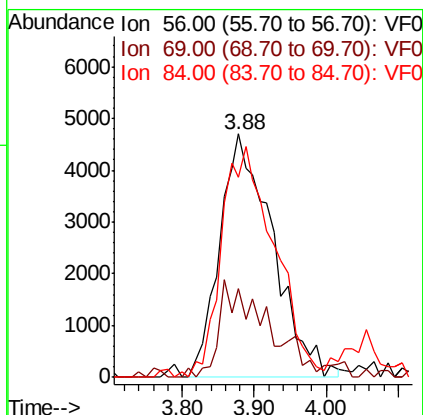
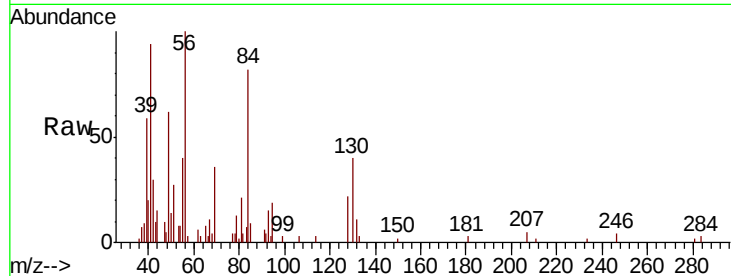
#31
Cyclohexane
Concen: 5.328 ug/l
RT: 3.88 min Scan# 329
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.3	25.0	37.6
84	82.2	72.1	108.1

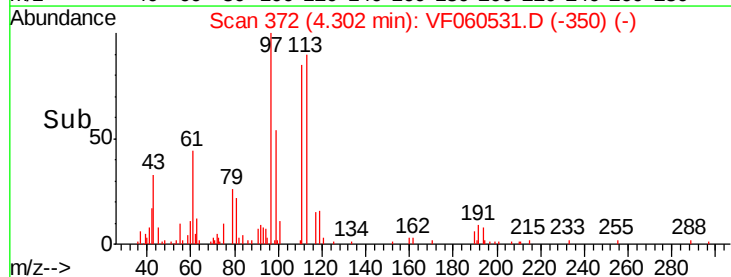
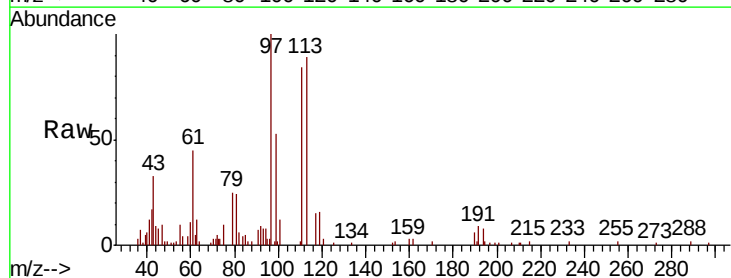
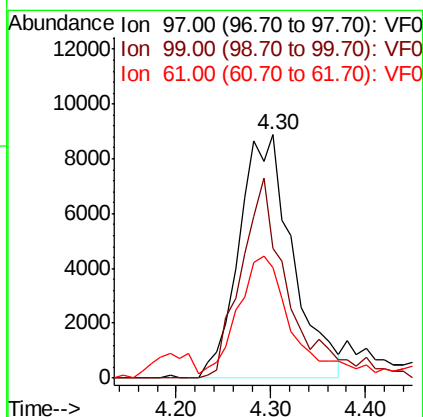
Manual Integrations
APPROVED

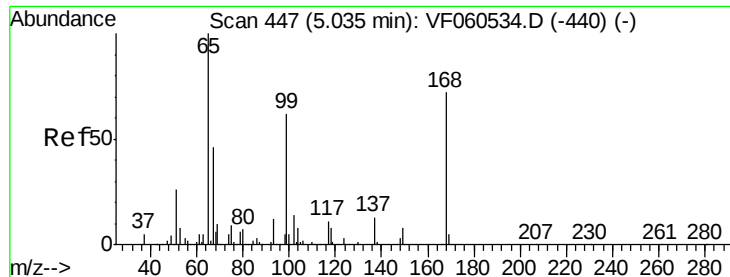
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#32
1,1,1-Trichloroethane
Concen: 3.840 ug/l
RT: 4.30 min Scan# 372
Delta R.T. 0.02 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	53.5	51.7	77.5
61	45.4	36.8	55.2





#33

1,2-Dichloroethane-d4

Concen: 4.321 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 23839

Ion Ratio Lower Upper

65 100

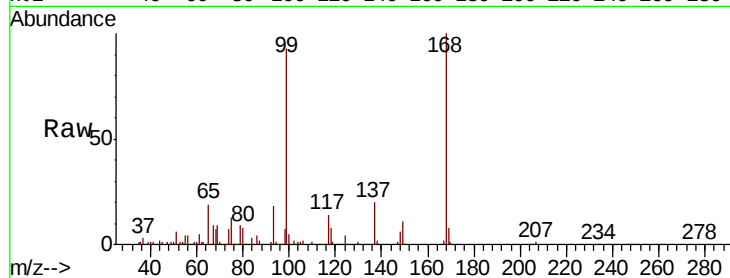
67 46.8 0.0 94.4

Manual Integrations

APPROVED

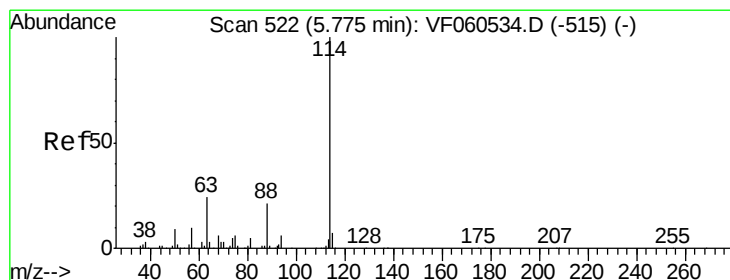
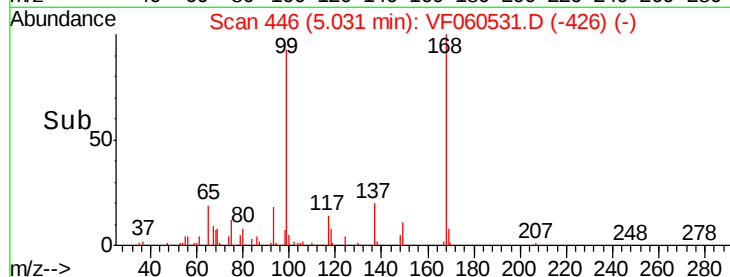
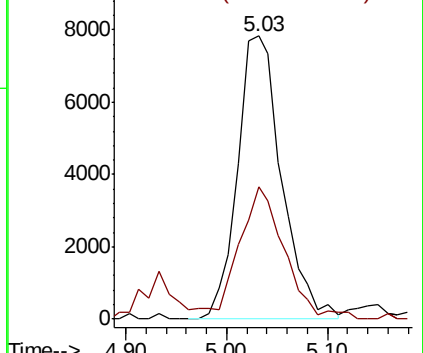
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 522

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

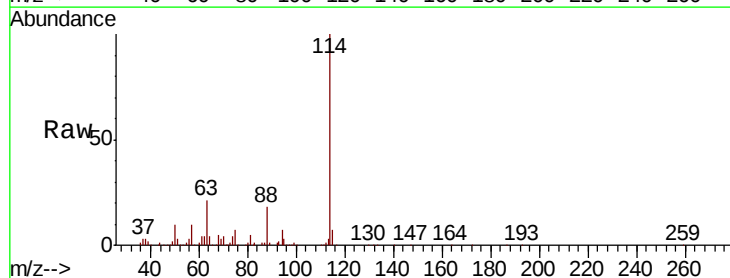
Tgt Ion: 114 Resp: 470570

Ion Ratio Lower Upper

114 100

63 20.7 0.0 48.0

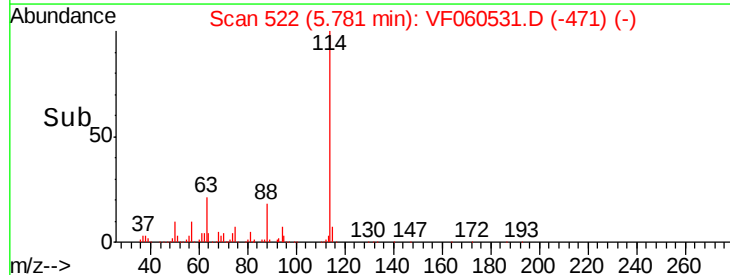
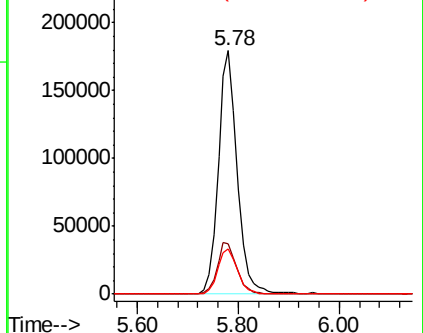
88 18.4 0.0 42.0

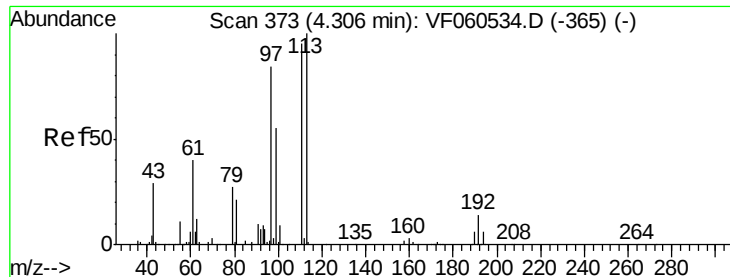


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





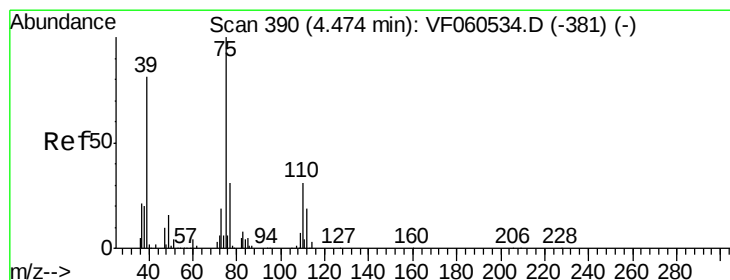
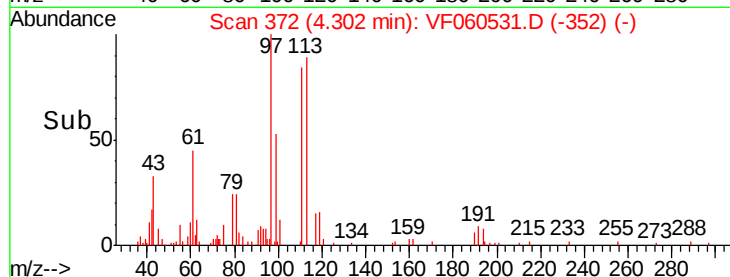
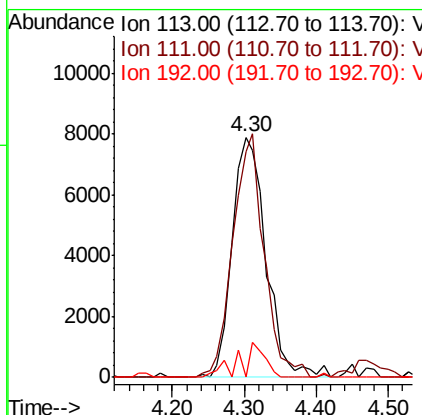
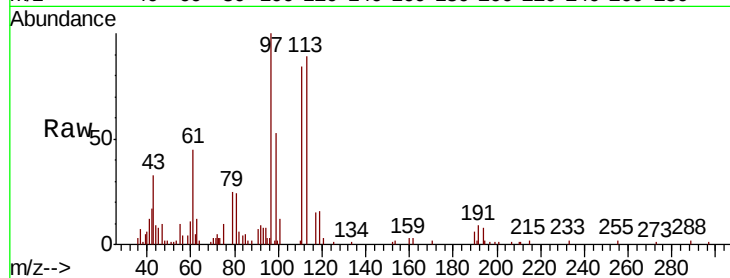
#35
 Dibromofluoromethane
 Concen: 4.744 ug/l
 RT: 4.30 min Scan# 372
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	94.1	75.9	113.9
192	0.0	11.2	16.8#

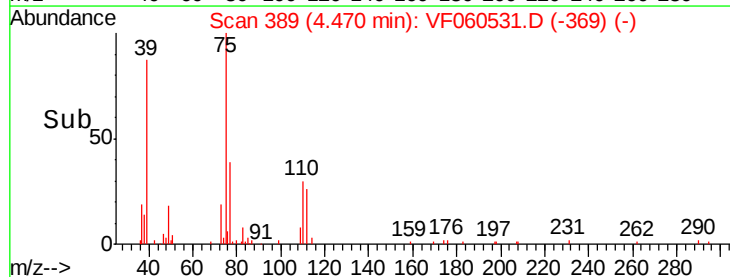
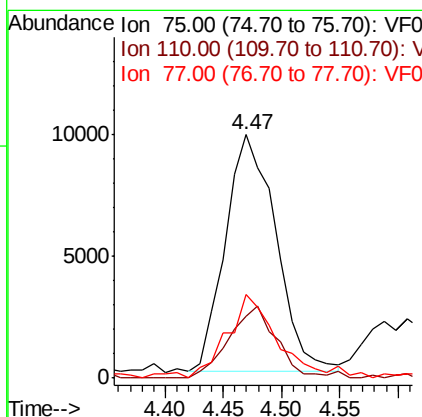
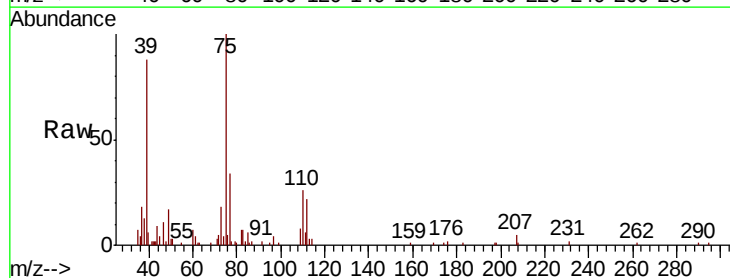
Manual Integrations
 APPROVED

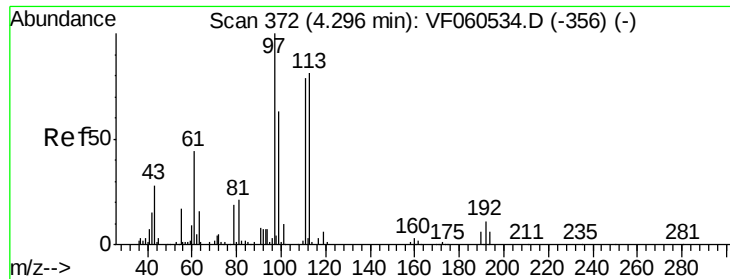
apatel
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#36
 1,1-Dichloropropene
 Concen: 4.273 ug/l
 RT: 4.47 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	25.6	15.3	45.8
77	34.3	24.8	37.2





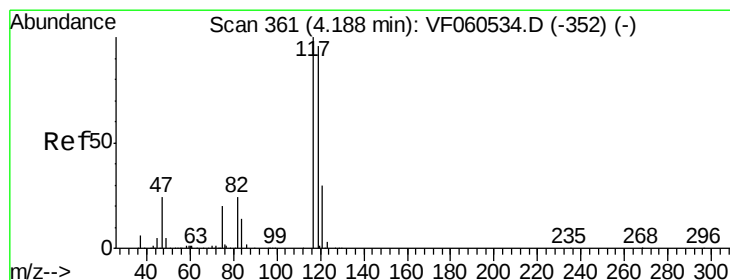
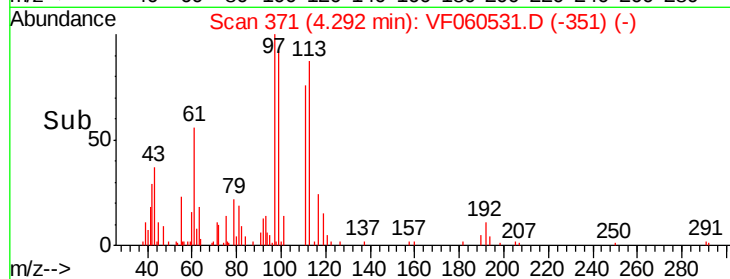
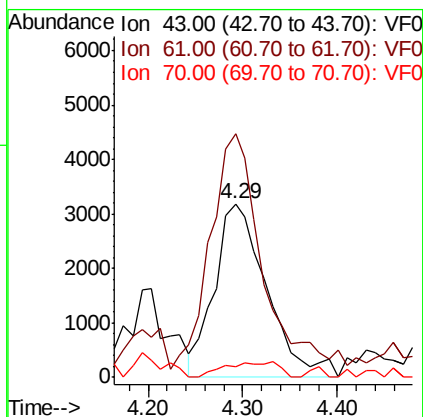
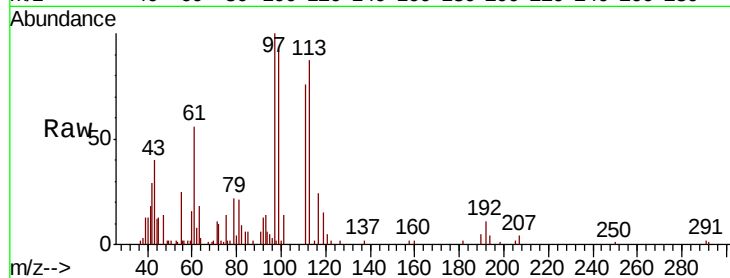
#37
Ethyl Acetate
Concen: 5.409 ug/l
RT: 4.29 min Scan# 371
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	140.4	123.9	185.9
70	6.1	7.3	10.9

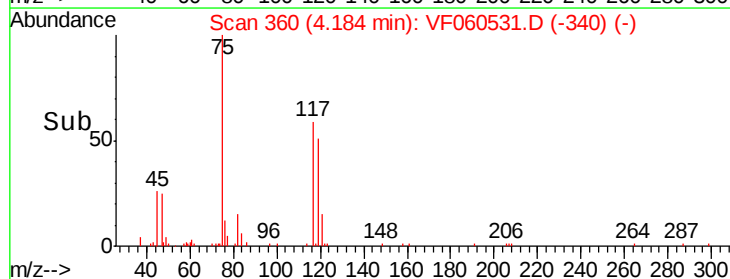
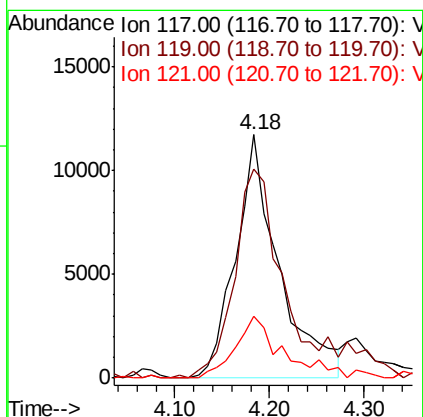
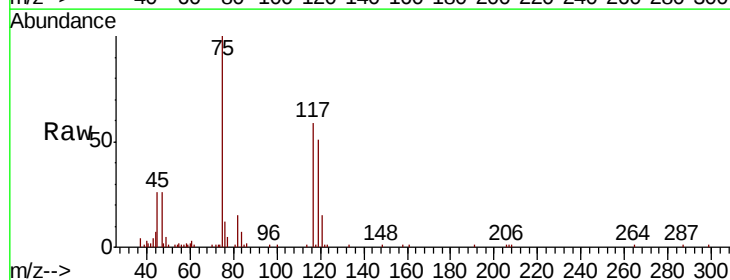
Manual Integrations
APPROVED

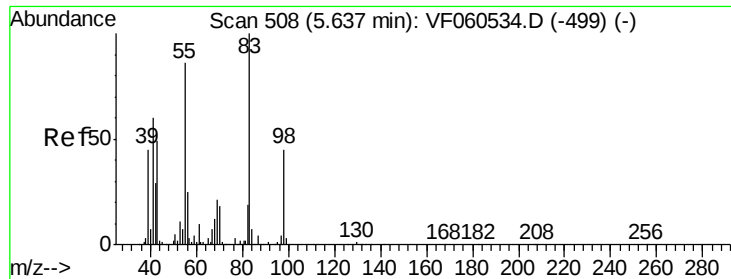
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#38
Carbon Tetrachloride
Concen: 3.751 ug/l
RT: 4.18 min Scan# 360
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	85.6	76.5	114.7
121	25.6	24.3	36.5





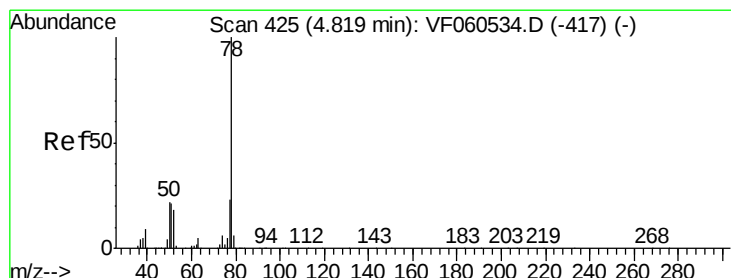
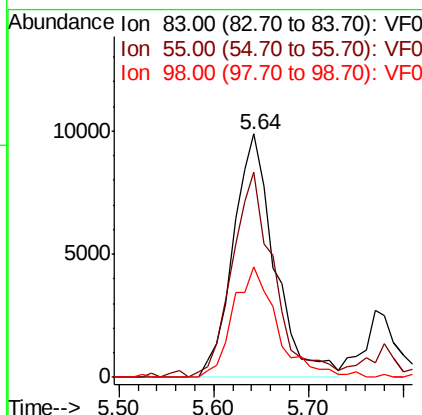
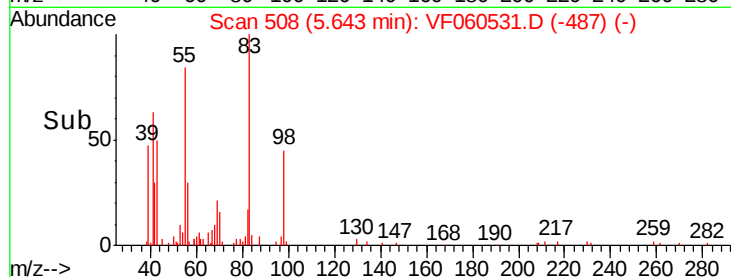
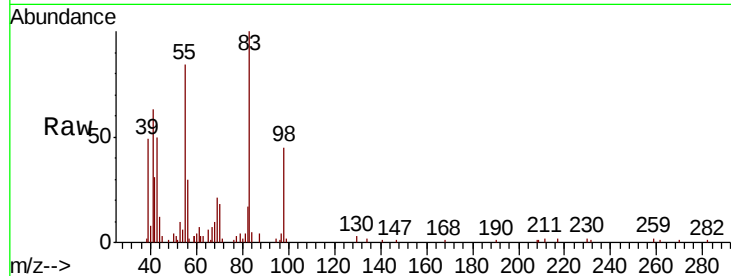
#39
Methvlcvclohexane
Concen: 5.214 ug/l
RT: 5.64 min Scan# 508
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.1	69.0	103.4
98	45.2	36.1	54.1

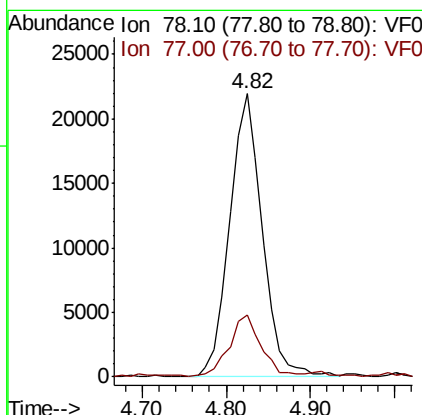
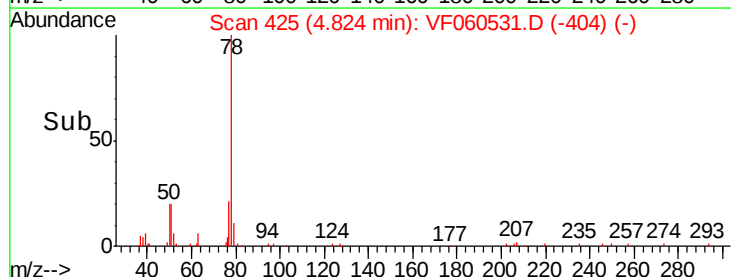
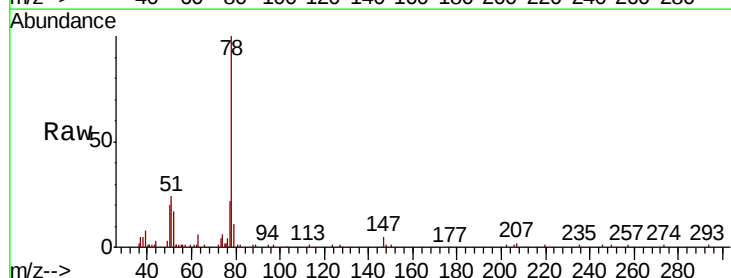
Manual Integrations
APPROVED

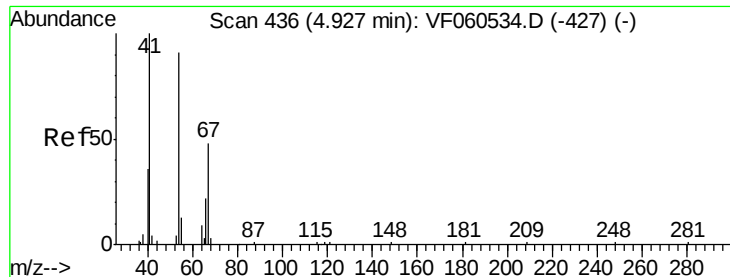
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#40
Benzene
Concen: 5.089 ug/l
RT: 4.82 min Scan# 425
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.8	18.5	27.7





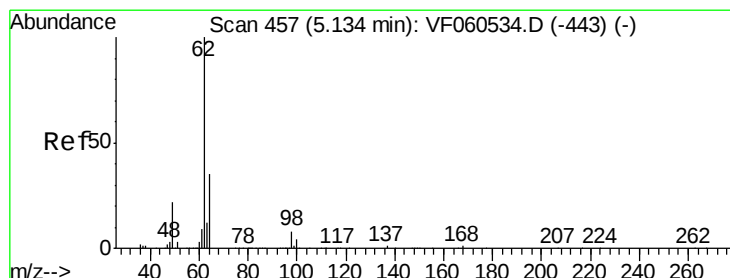
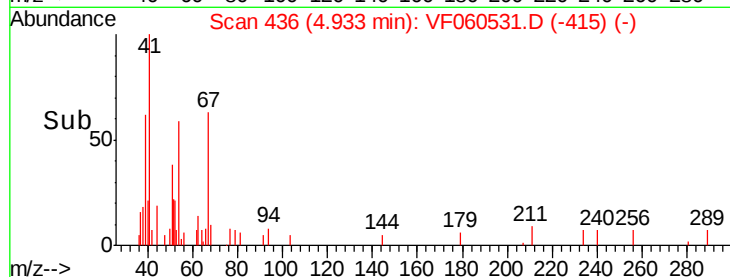
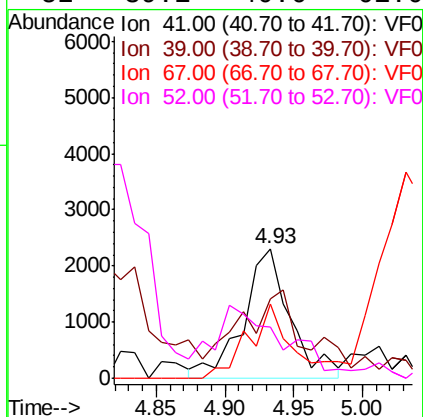
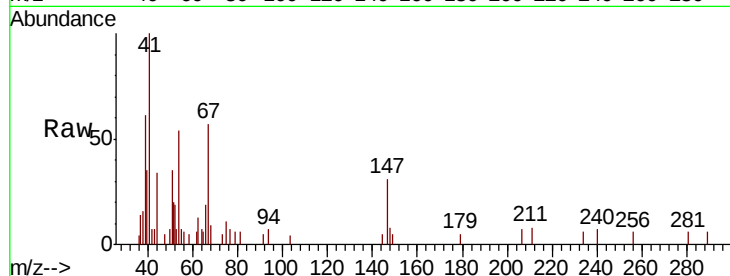
#41
Methacrylonitrile
Concen: 4.706 ug/l
RT: 4.93 min Scan# 436
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.3	51.0	76.6
67	57.2	38.0	57.0#
52	39.1	40.6	61.0#

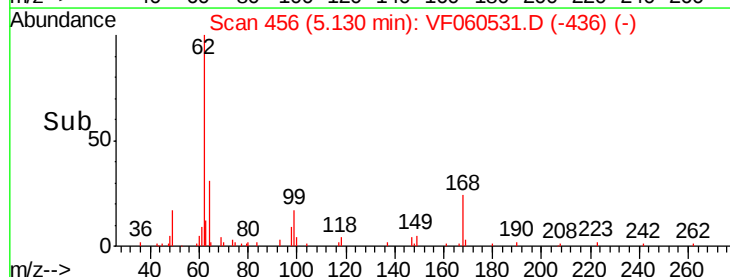
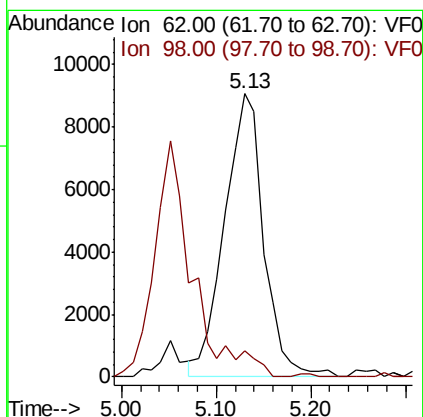
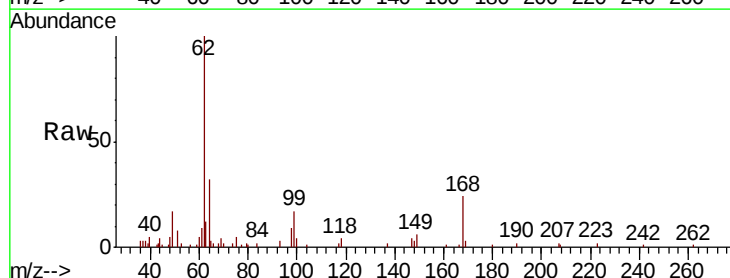
Manual Integrations
APPROVED

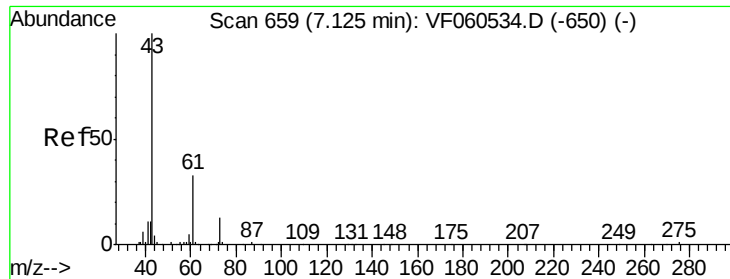
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#42
1,2-Dichloroethane
Concen: 3.662 ug/l
RT: 5.13 min Scan# 456
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8





#43

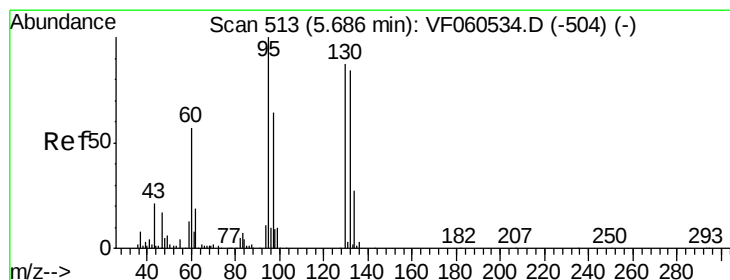
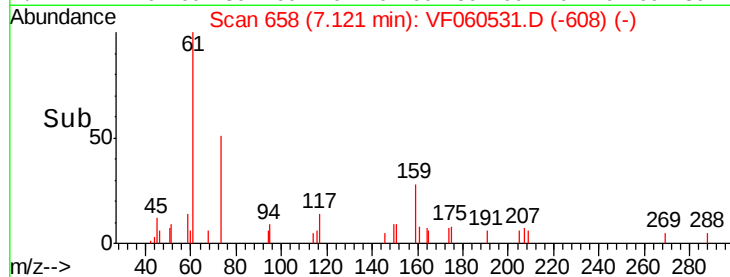
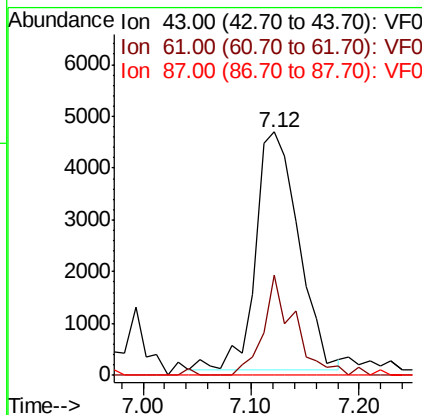
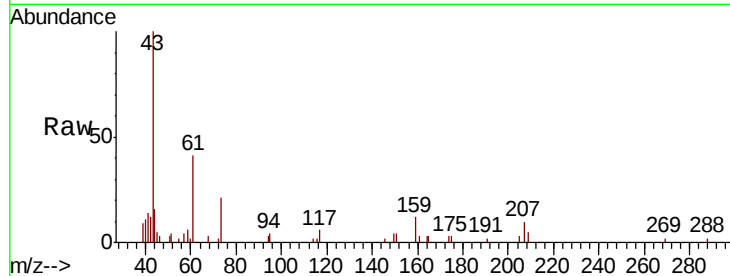
Isopropyl Acetate
 Concen: 5.231 ug/l
 RT: 7.12 min Scan# 658
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	41.2	26.6	40.0#
87	0.0	0.6	1.0#

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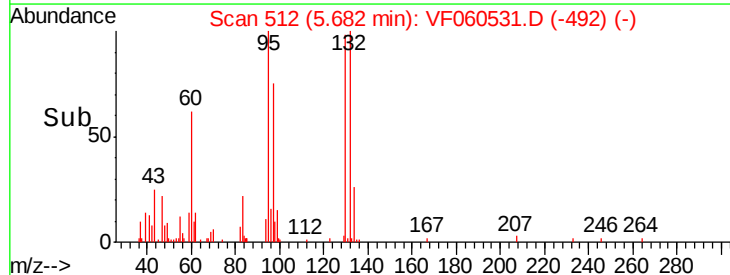
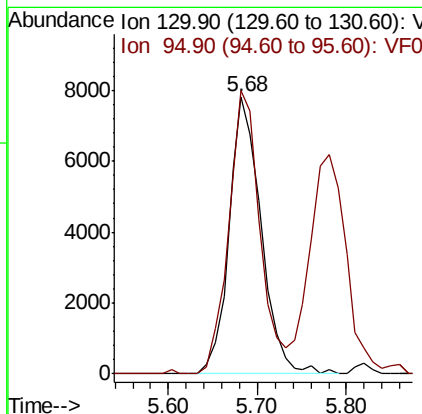
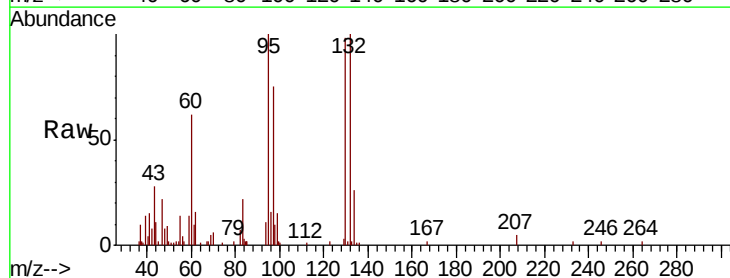
apatel
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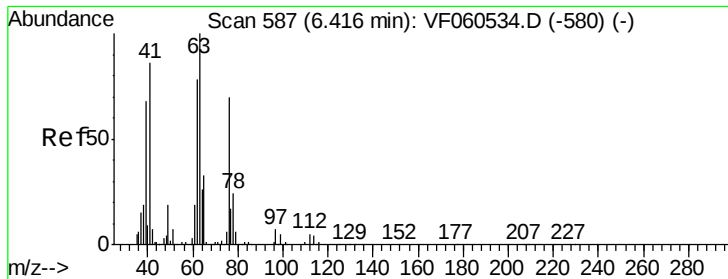


#44

Trichloroethene
 Concen: 4.937 ug/l
 RT: 5.68 min Scan# 512
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	229.4





#45

1,2-Dichloropropane

Concen: 4.685 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 13629

Ion Ratio Lower Upper

63 100

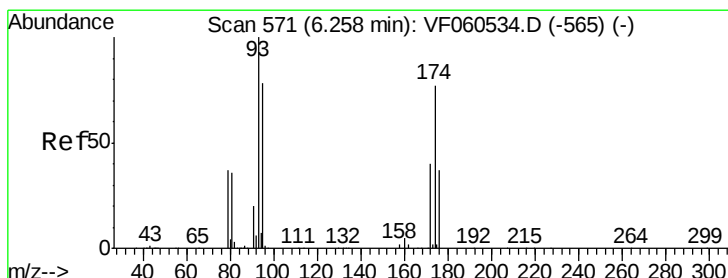
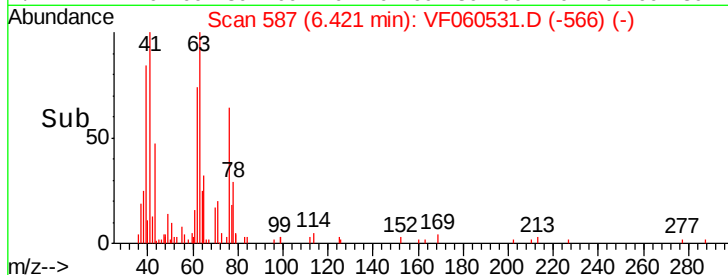
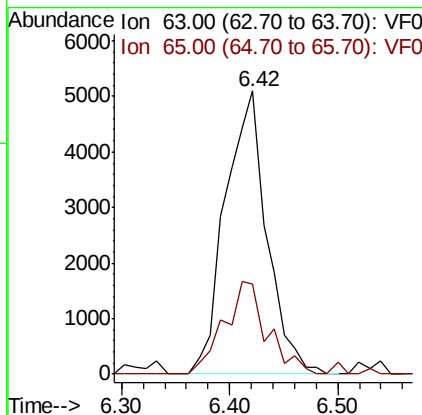
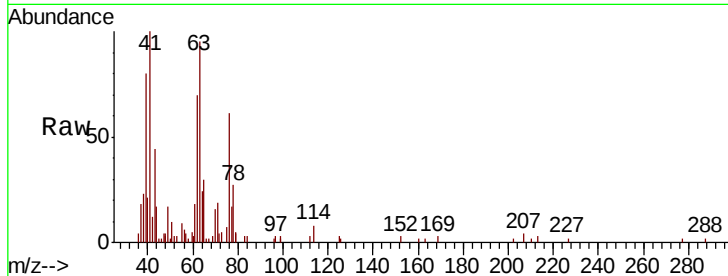
65 31.7 26.5 39.7

Manual Integrations

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#46

Dibromomethane

Concen: 3.967 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

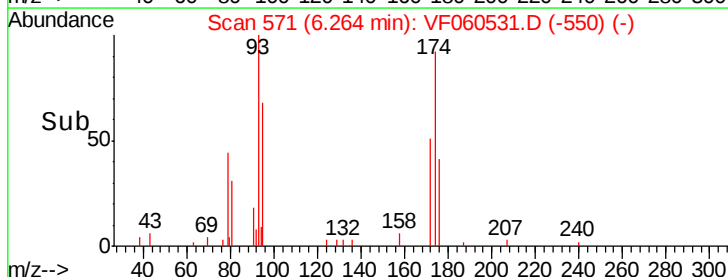
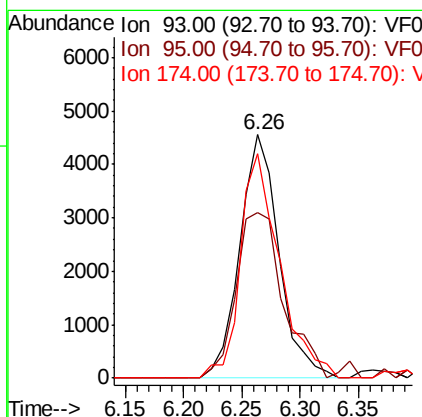
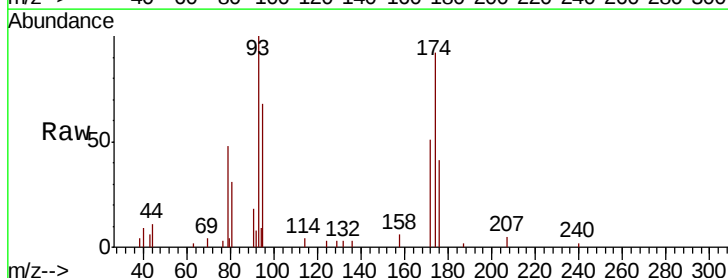
Tgt Ion: 93 Resp: 10604

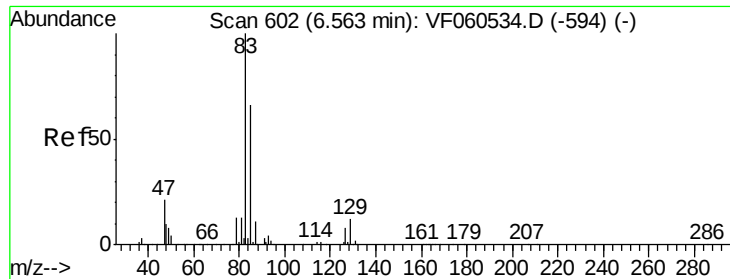
Ion Ratio Lower Upper

93 100

95 67.8 64.3 96.5

174 92.4 63.3 94.9





#47

Bromodichloromethane

Concen: 3.859 ug/l

RT: 6.56 min Scan# 601

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

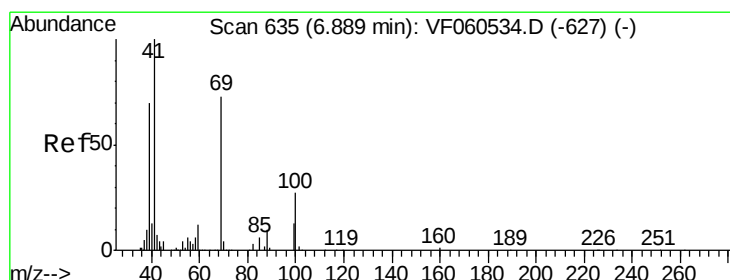
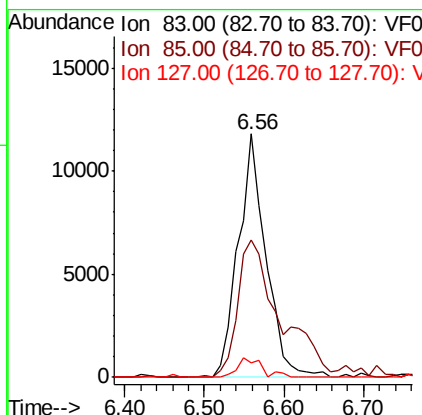
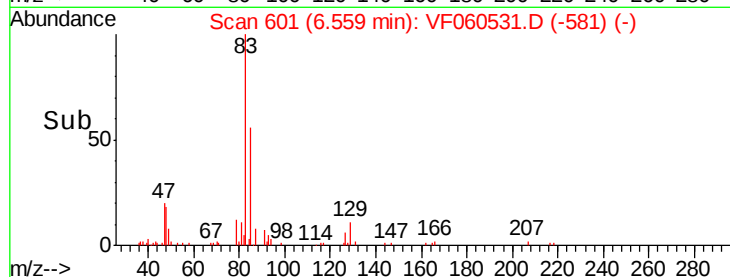
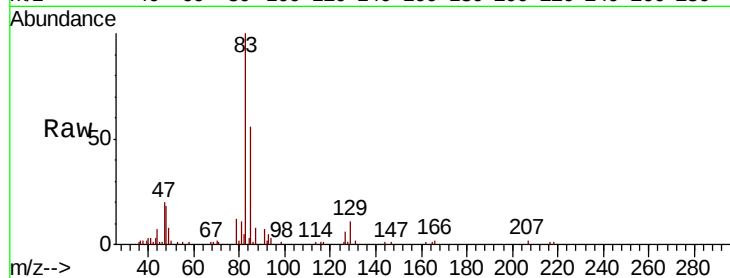
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	28495
Ion Ratio	Lower	Upper	
83	100		
85	56.3	52.7	79.1
127	6.0	6.4	9.6#

Manual Integrations
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#48

Methyl methacrylate

Concen: 3.468 ug/l

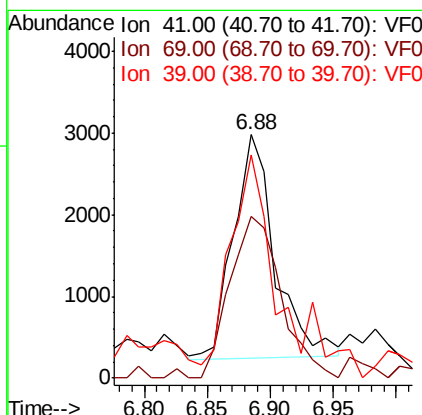
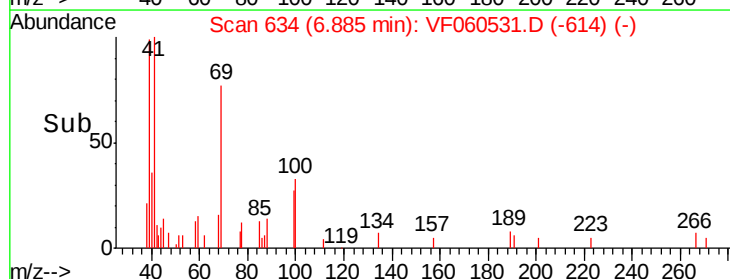
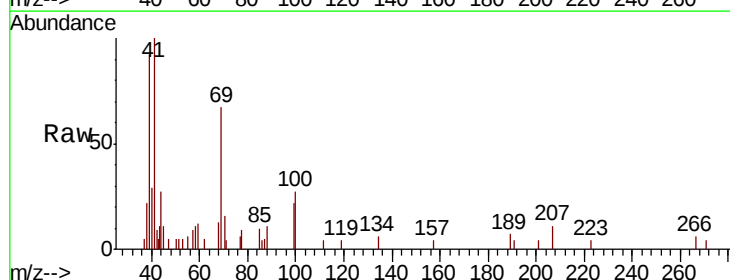
RT: 6.88 min Scan# 634

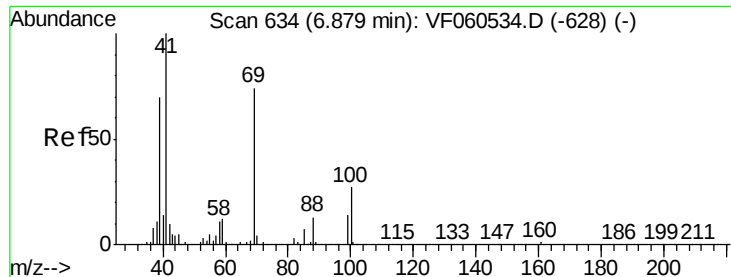
Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion:	41	Resp:	6235
Ion Ratio	Lower	Upper	
41	100		
69	66.5	58.4	87.6
39	91.7	56.4	84.6#





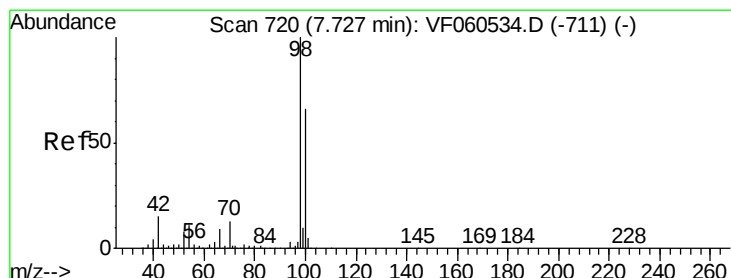
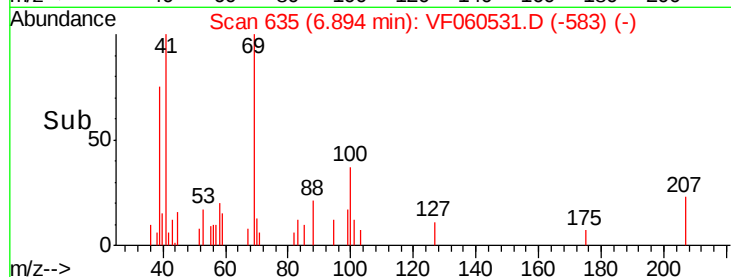
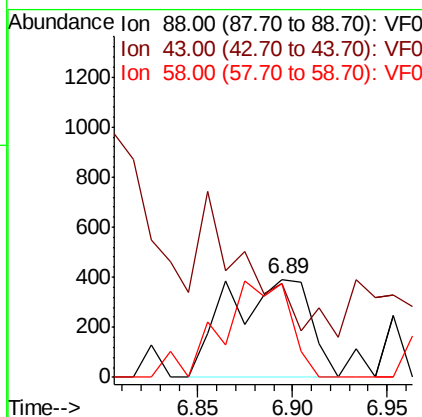
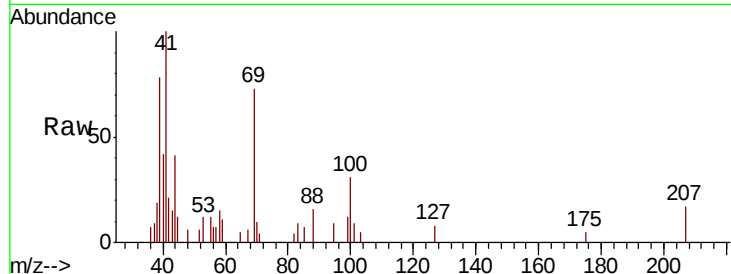
#49
1,4-Dioxane
Concen: 75.220 ug/l
RT: 6.89 min Scan# 635
Delta R.T. 0.02 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	95.2	49.7	74.5#
58	95.4	67.7	101.5

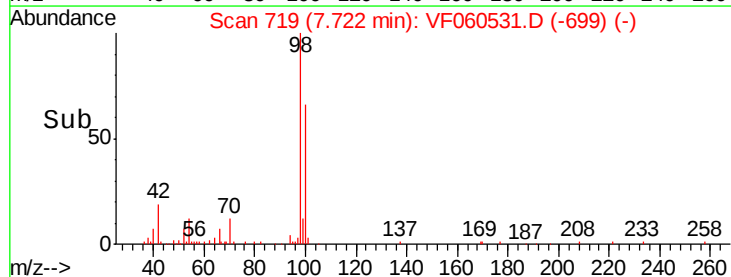
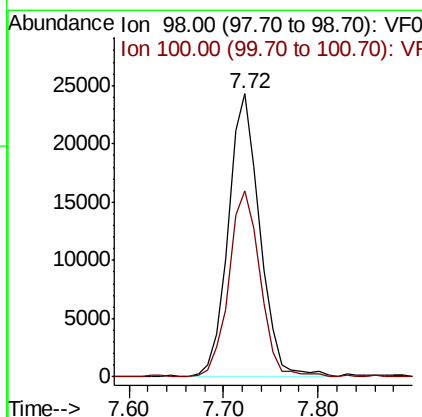
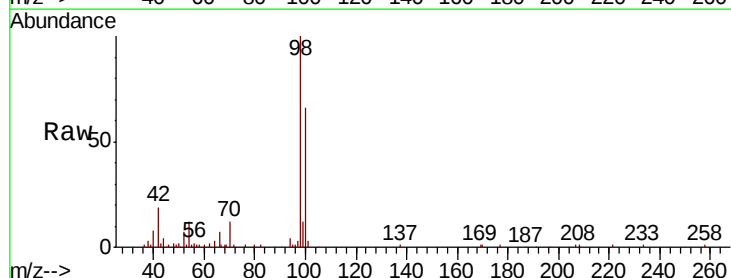
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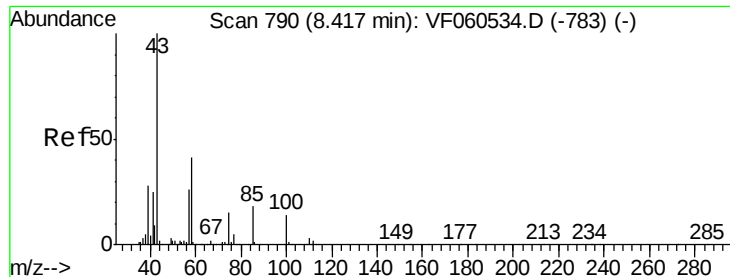
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#50
Toluene-d8
Concen: 4.951 ug/l
RT: 7.72 min Scan# 719
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	53.0	79.6





#51

4-Methyl-2-Pentanone

Concen: 24.130 ug/l

RT: 8.41 min Scan# 789

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 44592

Ion Ratio Lower Upper

43 100

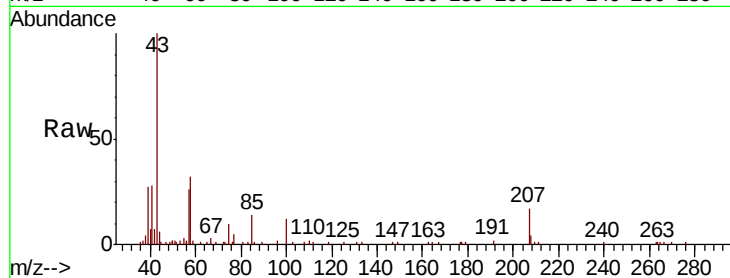
58 32.0 32.6 49.0#

Manual Integrations

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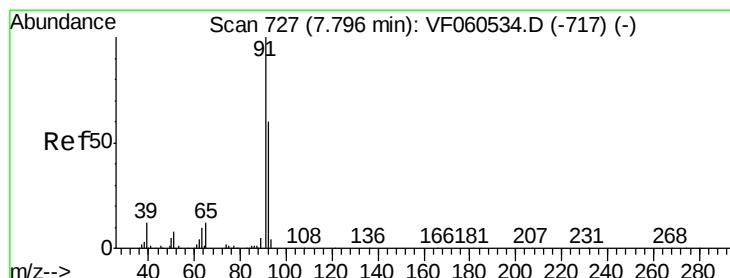
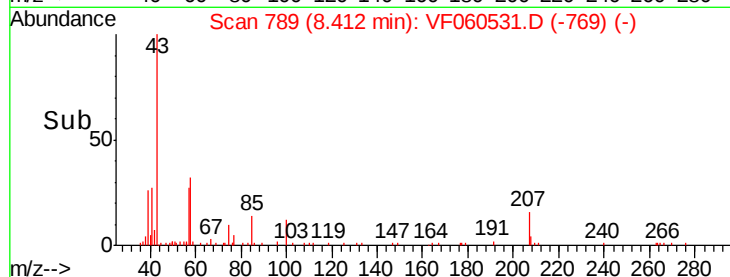
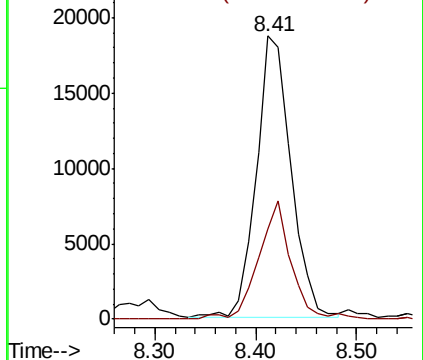
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 4.825 ug/l

RT: 7.79 min Scan# 726

Delta R.T. -0.00 min

Lab File: VF060531.D

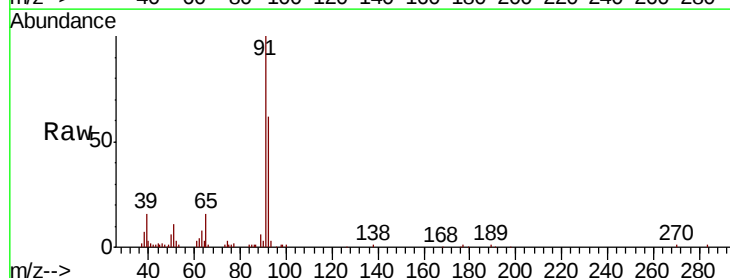
Acq: 29 Oct 2018 15:58

Tgt Ion: 92 Resp: 36881

Ion Ratio Lower Upper

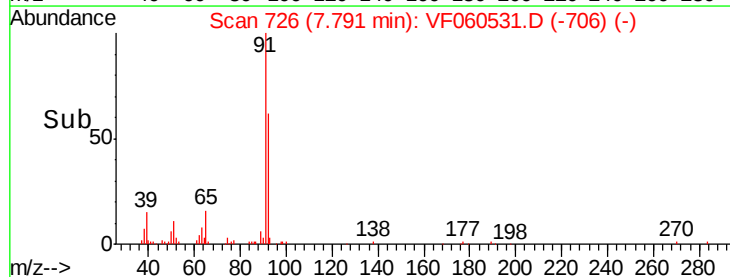
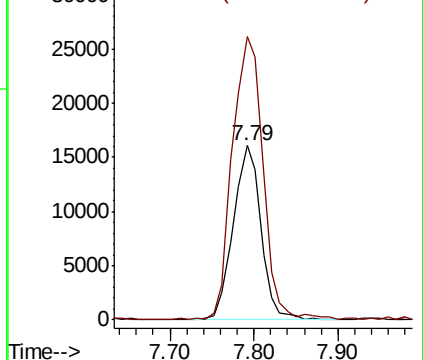
92 100

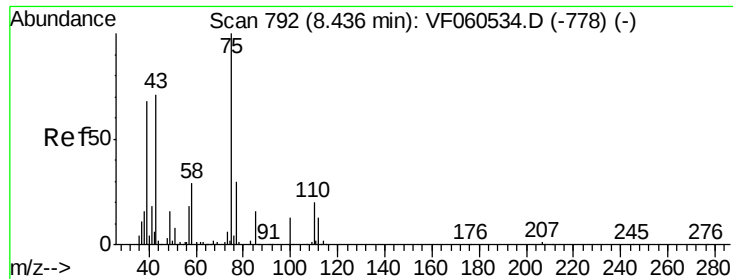
91 162.5 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 4.093 ug/l

RT: 8.43 min Scan# 791

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 22610

Ion Ratio Lower Upper

75 100

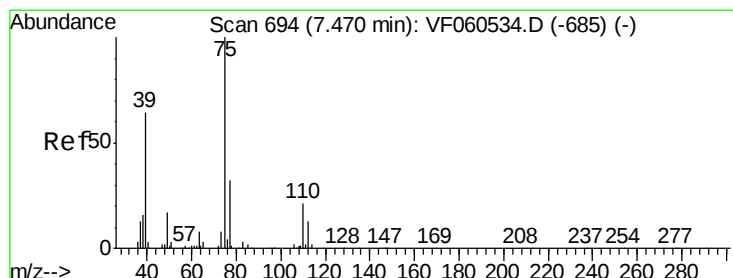
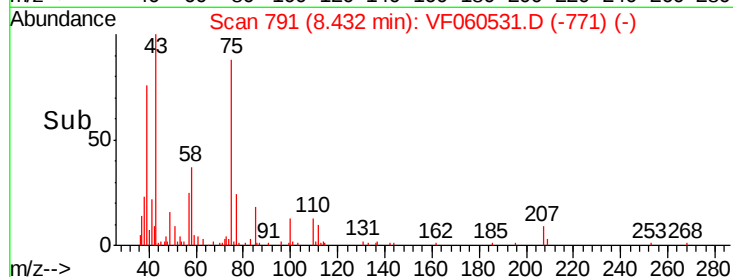
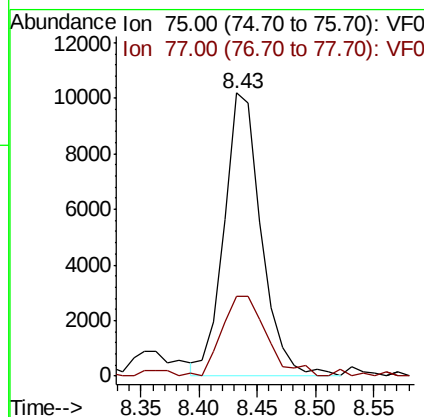
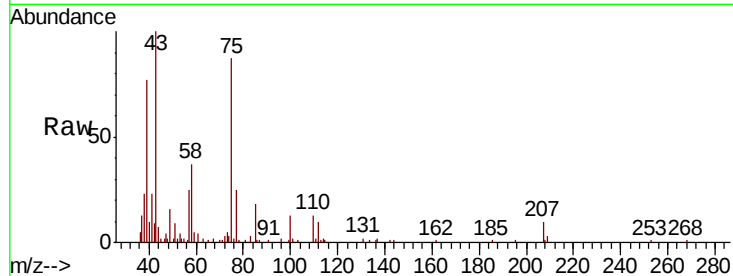
77 28.2 24.2 36.4

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#54

cis-1,3-Dichloropropene

Concen: 4.465 ug/l

RT: 7.47 min Scan# 693

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

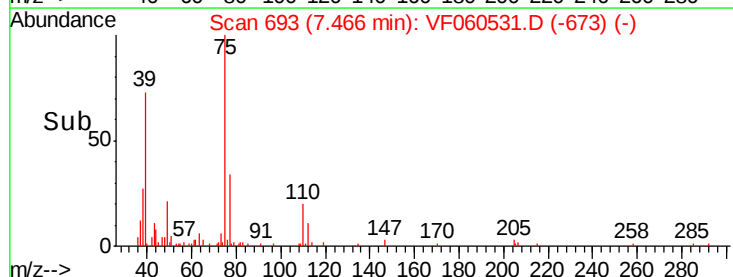
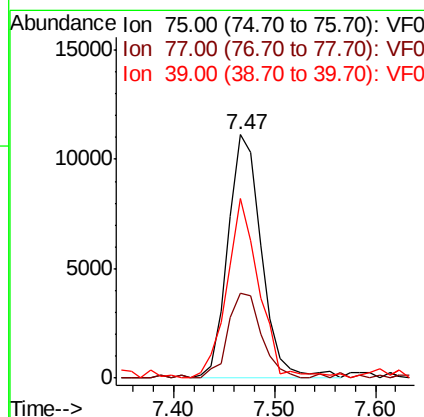
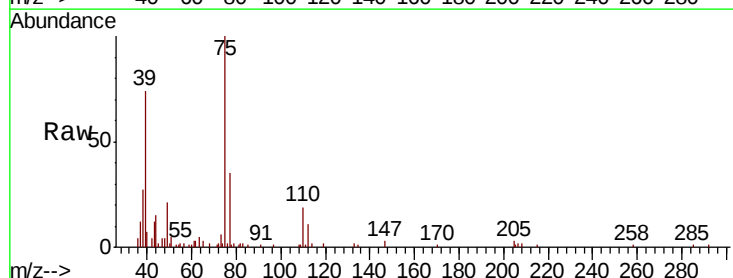
Tgt Ion: 75 Resp: 25821

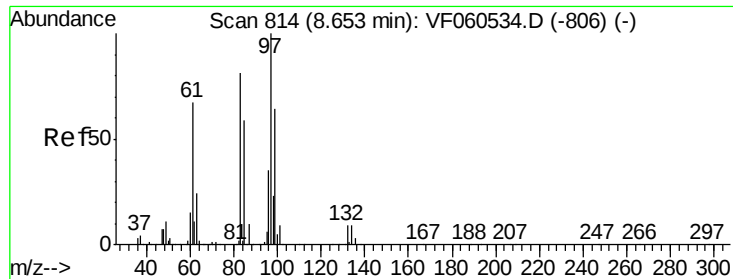
Ion Ratio Lower Upper

75 100

77 35.0 25.7 38.5

39 73.8 51.5 77.3





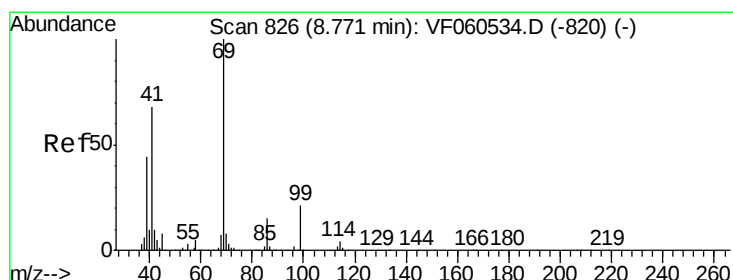
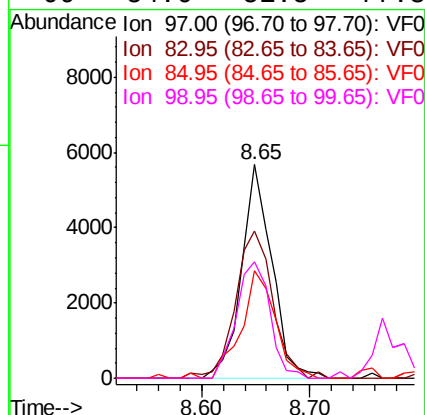
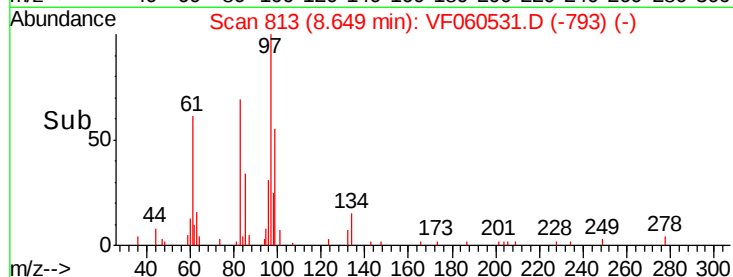
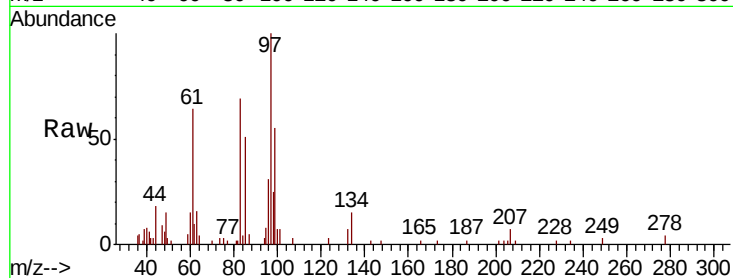
#55
1,1,2-Trichloroethane
Concen: 4.676 ug/l
RT: 8.65 min Scan# 813
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	97	Resp:	11106
Ion Ratio	Lower	Upper	
97	100		
83	68.9	65.3	97.9
85	50.6	47.6	71.4
99	54.6	51.5	77.3

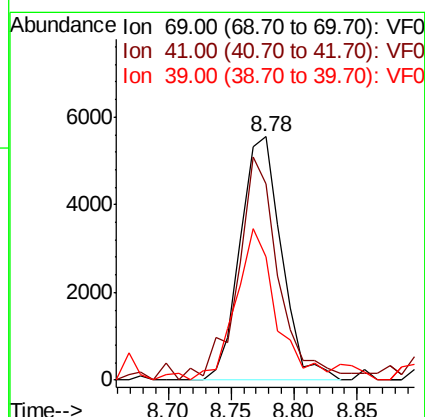
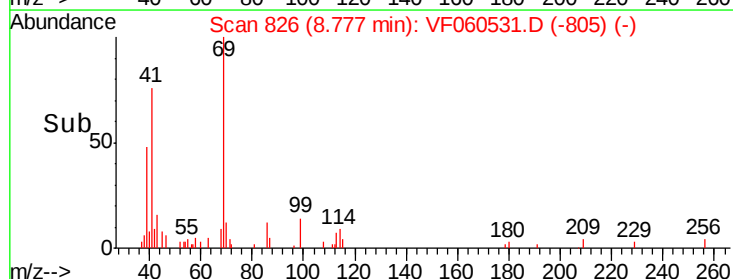
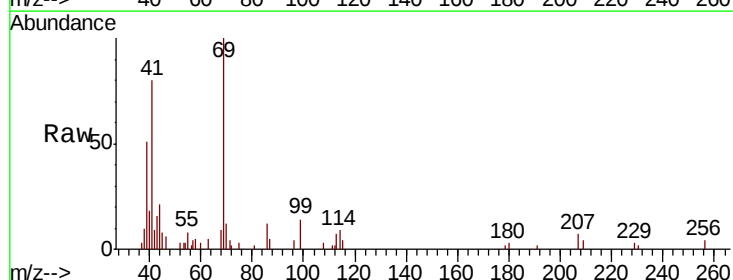
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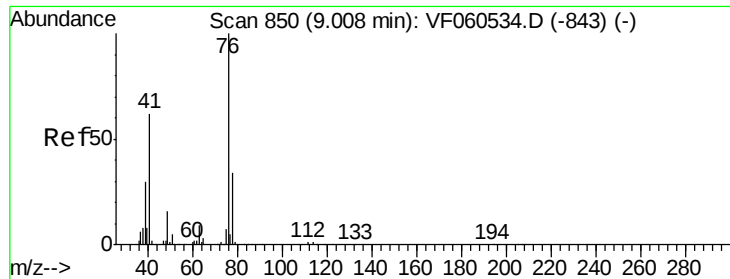
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#56
Ethyl methacrylate
Concen: 4.876 ug/l
RT: 8.78 min Scan# 826
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	69	Resp:	12654
Ion Ratio	Lower	Upper	
69	100		
41	80.4	55.0	82.6
39	50.5	35.1	52.7





#57

1,3-Dichloropropane

Concen: 4.605 ug/l

RT: 9.00 min Scan# 849

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 19362

Ion Ratio Lower Upper

76 100

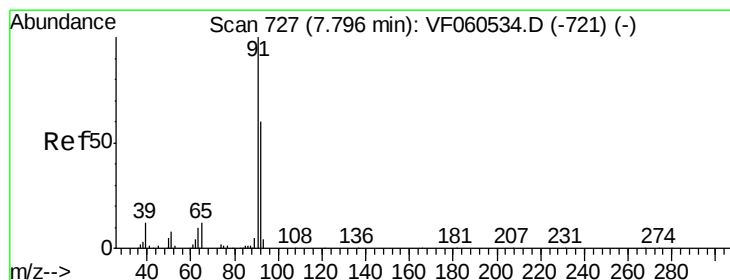
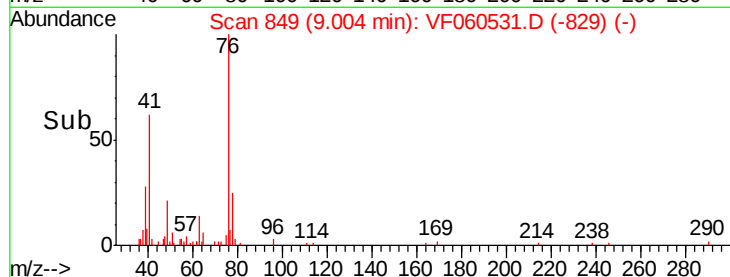
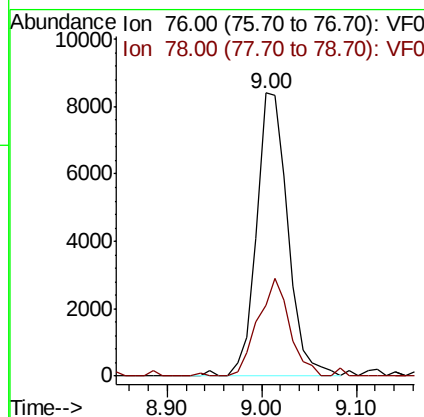
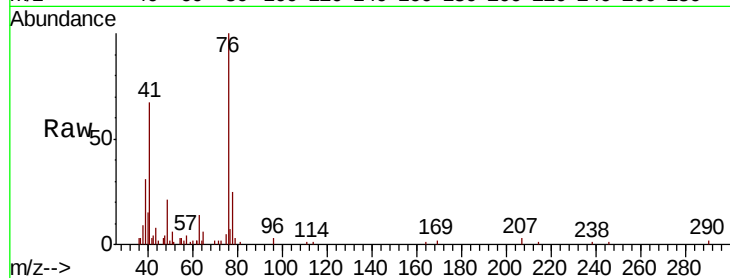
78 25.2 27.3 40.9#

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 19.095 ug/l

RT: 7.78 min Scan# 725

Delta R.T. -0.01 min

Lab File: VF060531.D

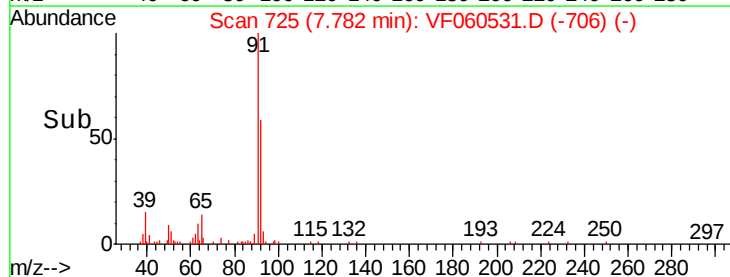
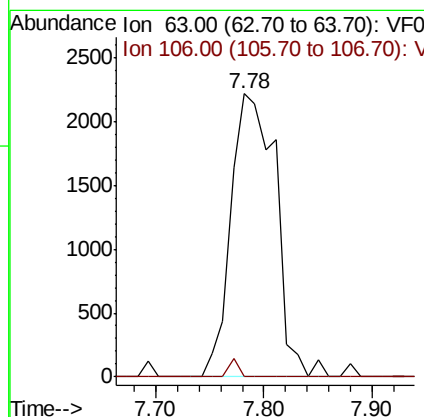
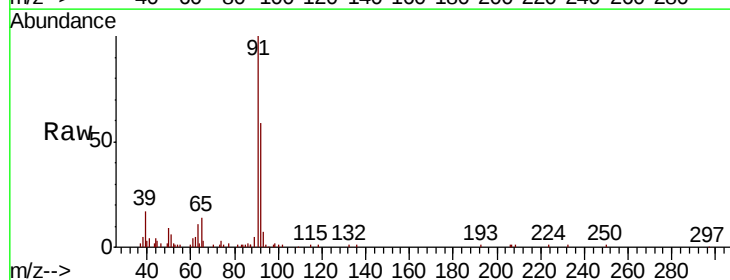
Acq: 29 Oct 2018 15:58

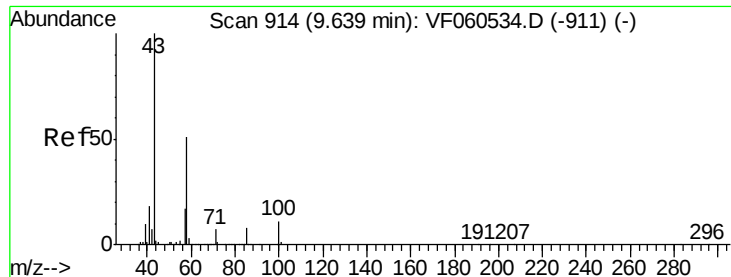
Tgt Ion: 63 Resp: 6395

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#59

2-Hexanone

Concen: 28.551 ug/l

RT: 9.64 min Scan# 914

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 39298

Ion Ratio Lower Upper

43 100

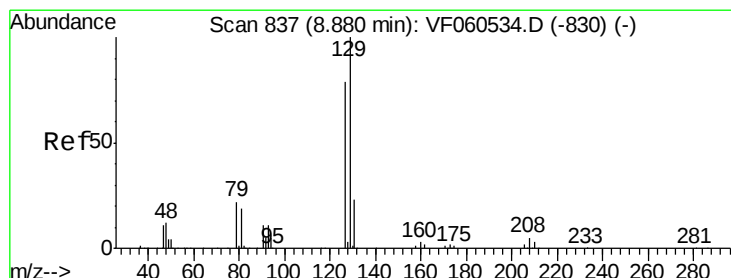
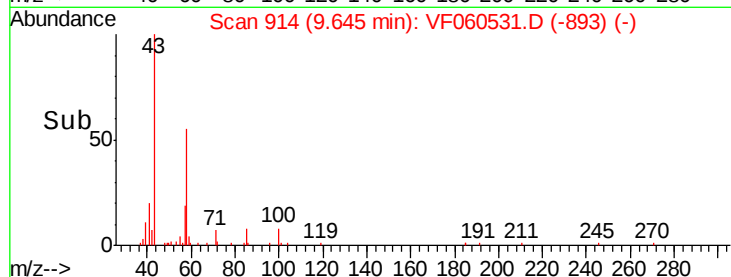
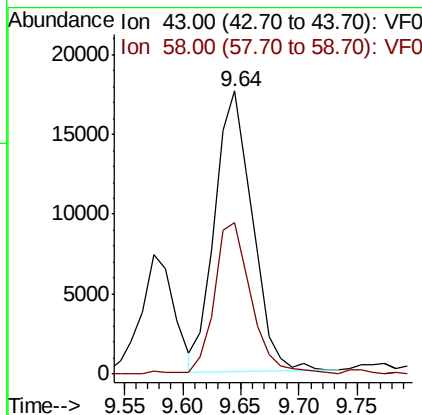
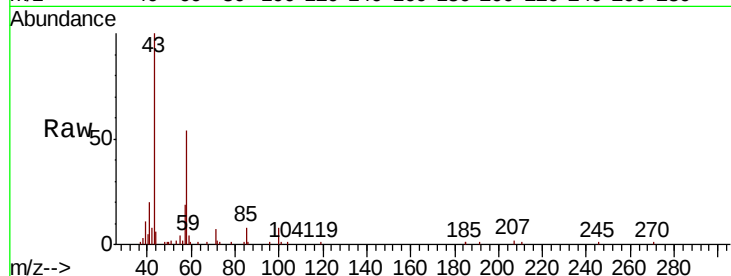
58 53.7 24.1 72.3

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#60

Dibromochloromethane

Concen: 3.922 ug/l

RT: 8.88 min Scan# 836

Delta R.T. -0.00 min

Lab File: VF060531.D

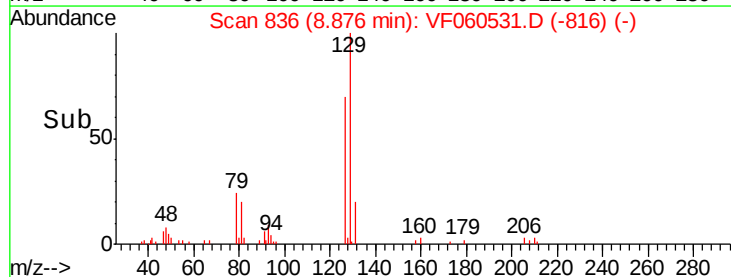
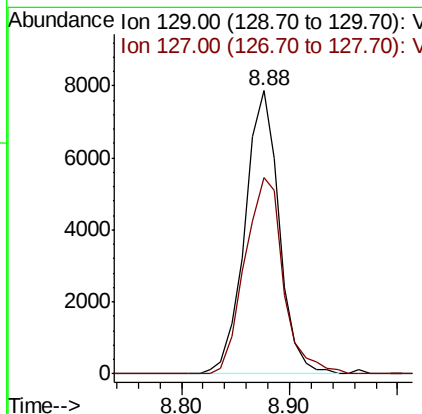
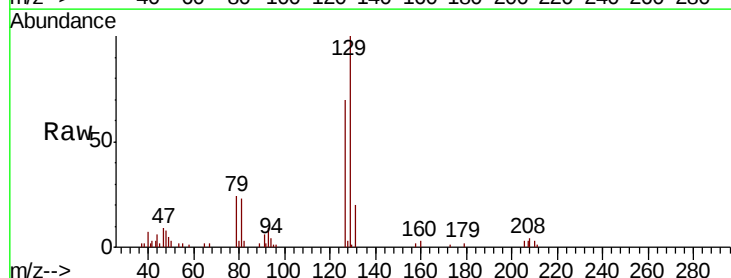
Acq: 29 Oct 2018 15:58

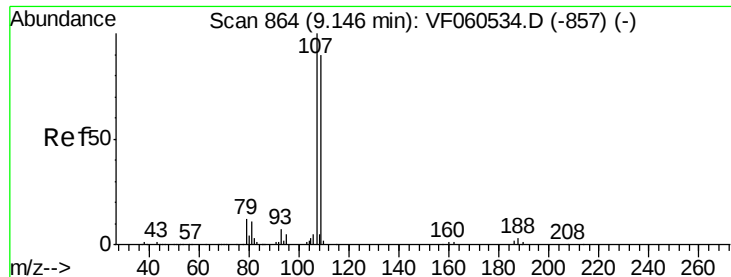
Tgt Ion: 129 Resp: 17300

Ion Ratio Lower Upper

129 100

127 68.7 39.6 119.0





#61

1,2-Dibromoethane

Concen: 4.847 ug/l

RT: 9.15 min Scan# 864

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 13612

Ion Ratio Lower Upper

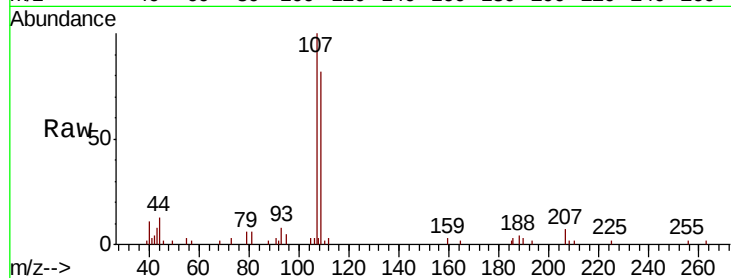
107 100

109 82.1 72.2 108.2

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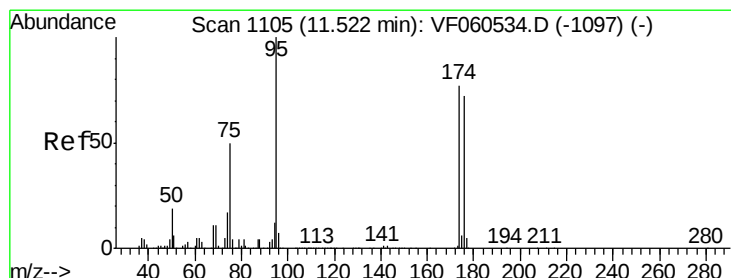
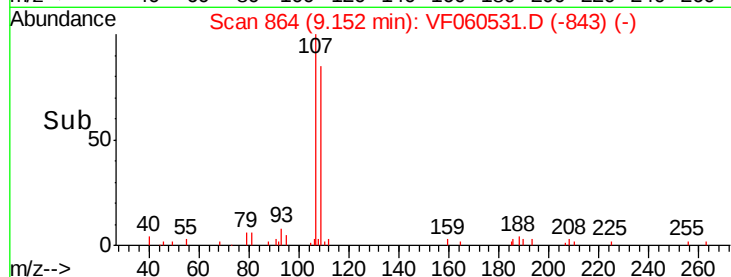
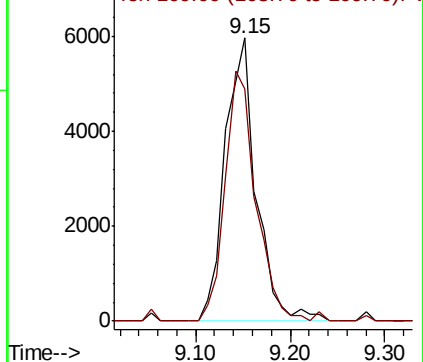
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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 4.494 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

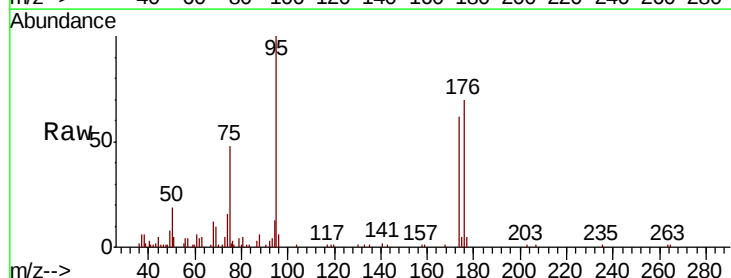
Tgt Ion: 95 Resp: 27600

Ion Ratio Lower Upper

95 100

174 61.9 0.0 153.8

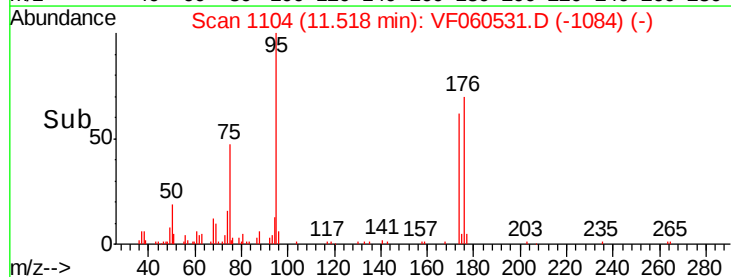
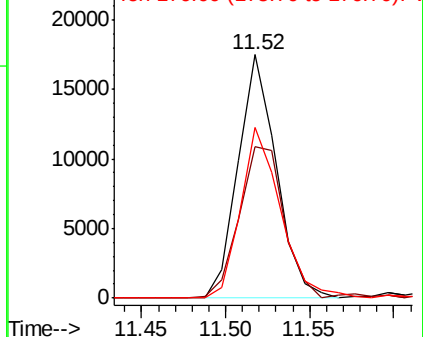
176 70.2 0.0 143.6

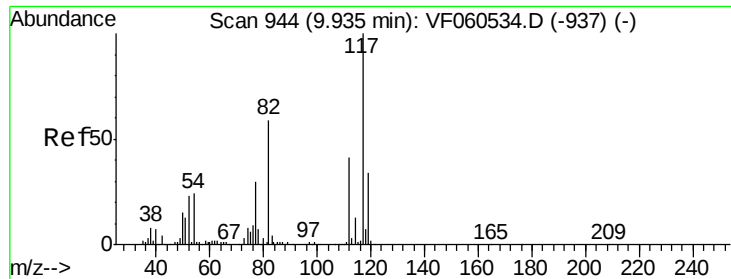


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





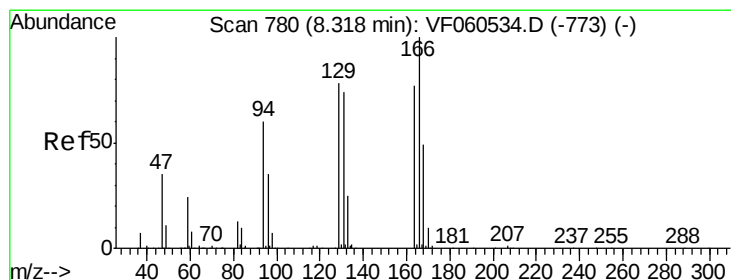
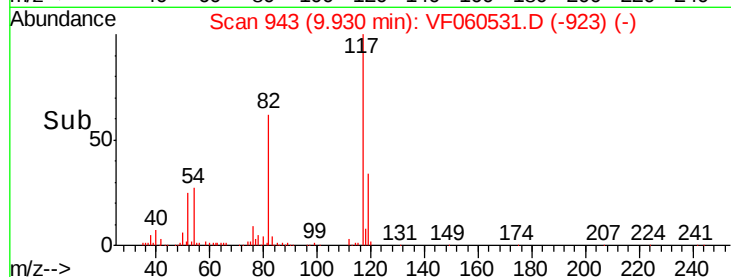
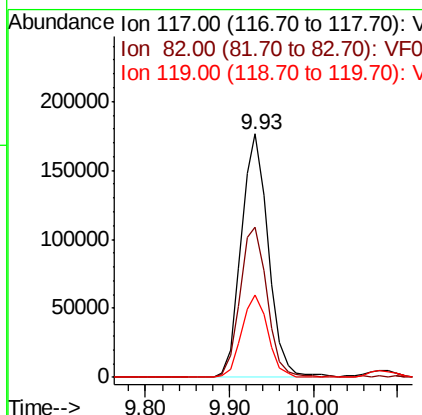
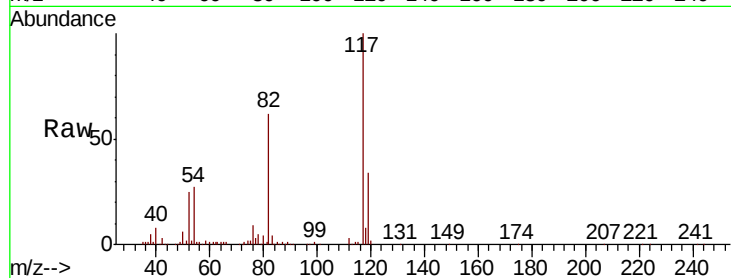
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.8	47.6	71.4
119	34.0	27.3	40.9

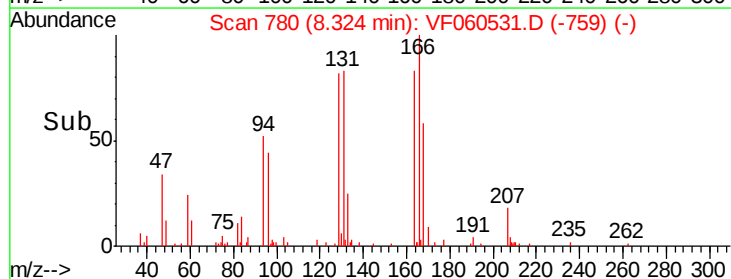
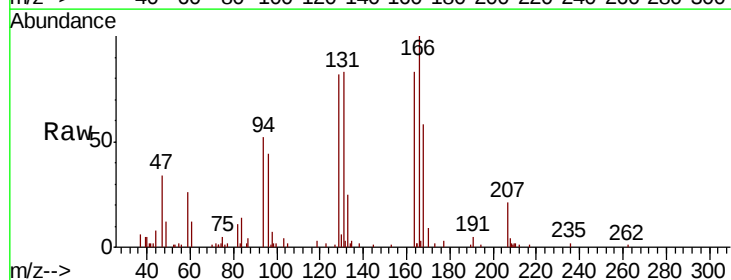
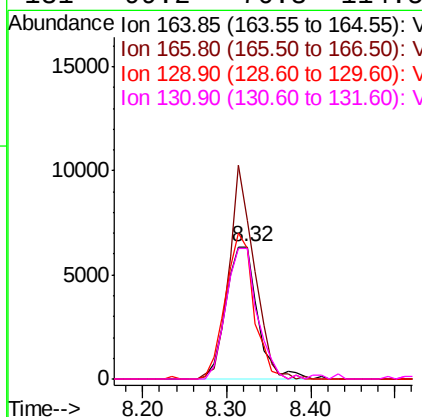
Manual Integrations
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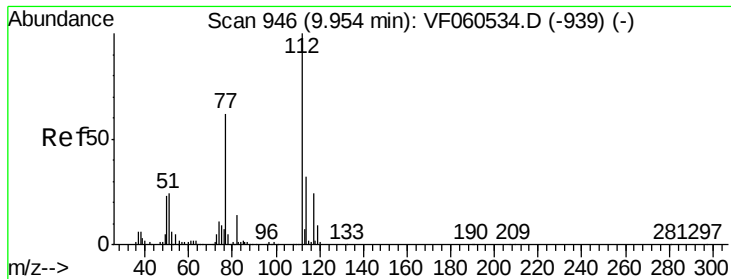
apatel
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#64
Tetrachloroethene
Concen: 4.854 ug/l
RT: 8.32 min Scan# 780
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.9	103.4	155.2
129	98.9	80.7	121.1
131	99.2	76.3	114.5





#65

Chlorobenzene

Concen: 4.902 ug/l

RT: 9.95 min Scan# 945

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 41310

Ion Ratio Lower Upper

112 100

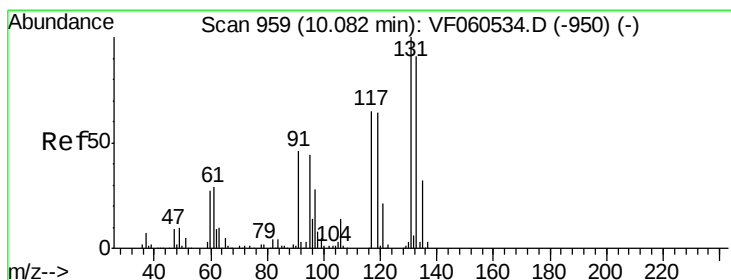
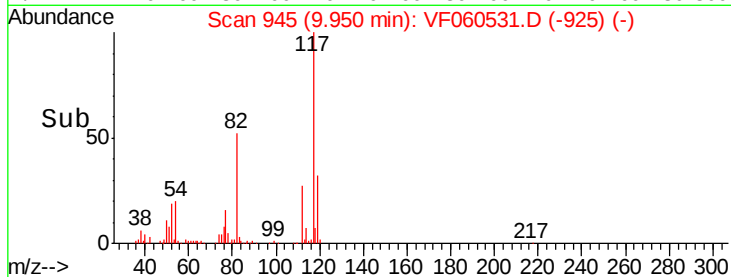
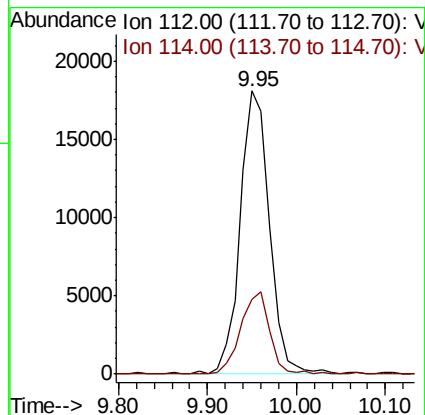
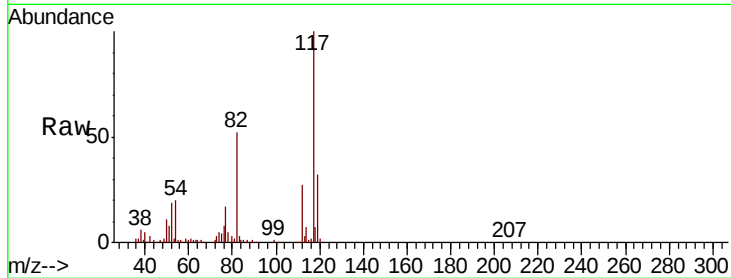
114 26.3 25.5 38.3

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 4.321 ug/l

RT: 10.08 min Scan# 958

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

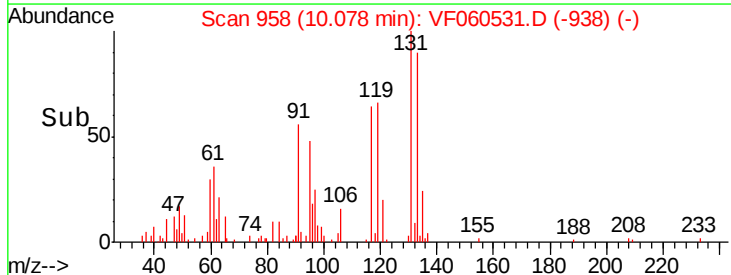
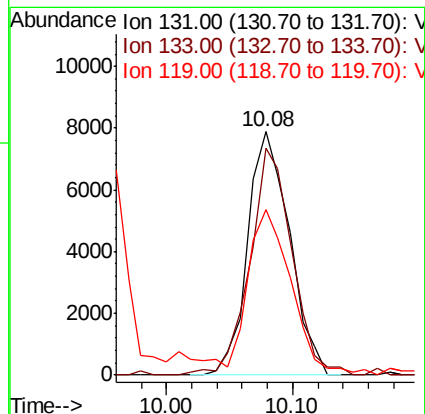
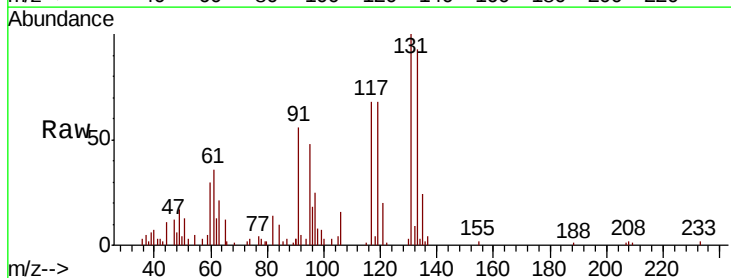
Tgt Ion:131 Resp: 18187

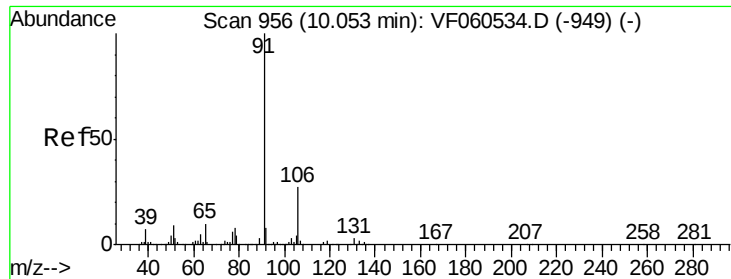
Ion Ratio Lower Upper

131 100

133 93.2 45.8 137.3

119 68.0 32.4 97.0





#67

Ethyl Benzene

Concen: 4.592 ug/l

RT: 10.05 min Scan# 955

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 77832

Ion Ratio Lower Upper

91 100

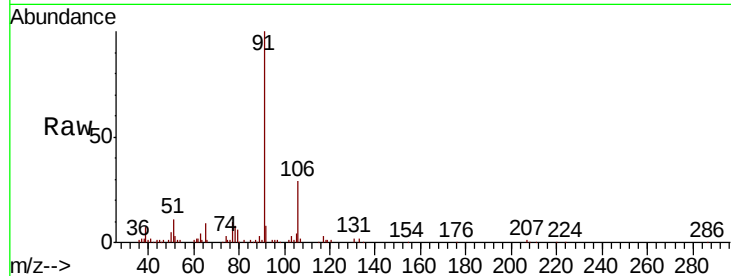
106 28.8 21.9 32.9

Manual Integrations

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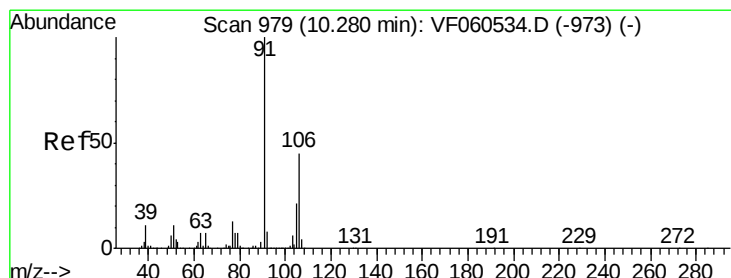
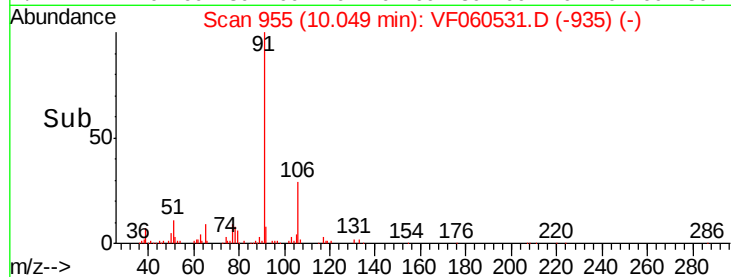
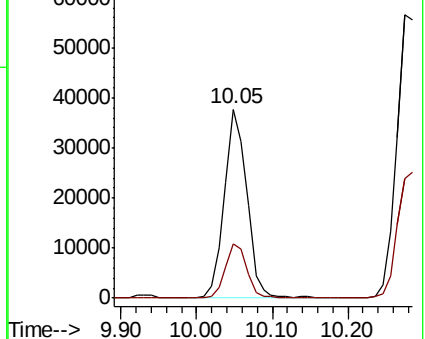
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 10.045 ug/l

RT: 10.29 min Scan# 979

Delta R.T. 0.01 min

Lab File: VF060531.D

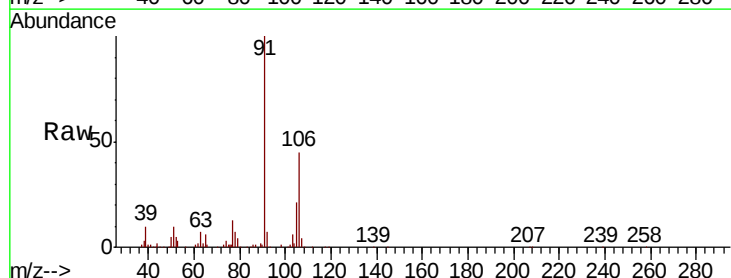
Acq: 29 Oct 2018 15:58

Tgt Ion: 106 Resp: 53905

Ion Ratio Lower Upper

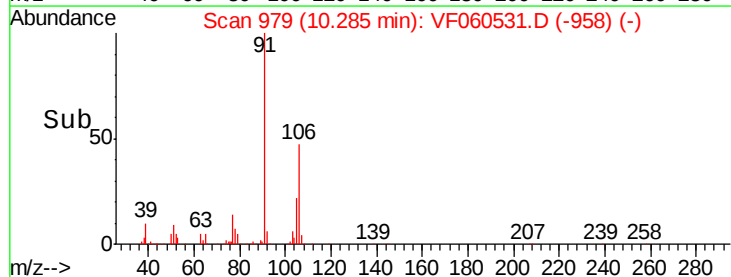
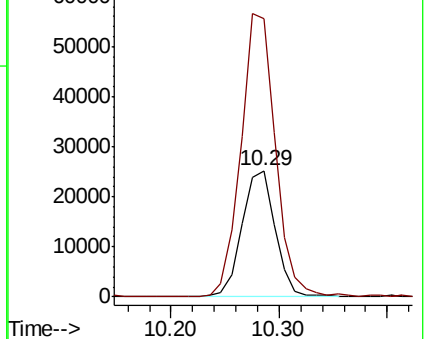
106 100

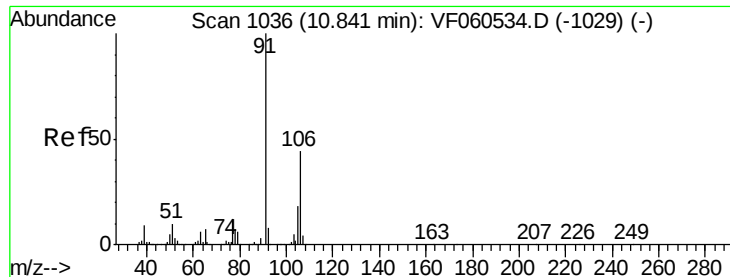
91 220.3 176.2 264.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





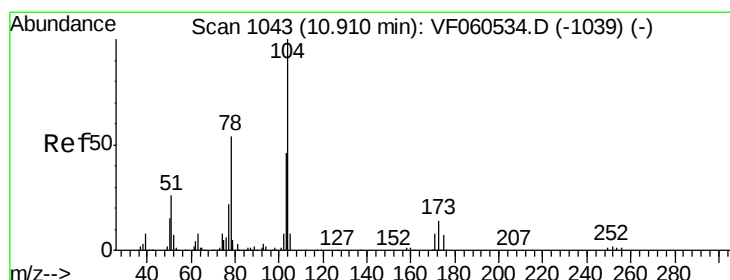
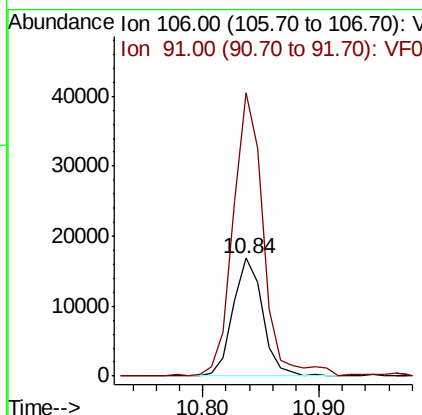
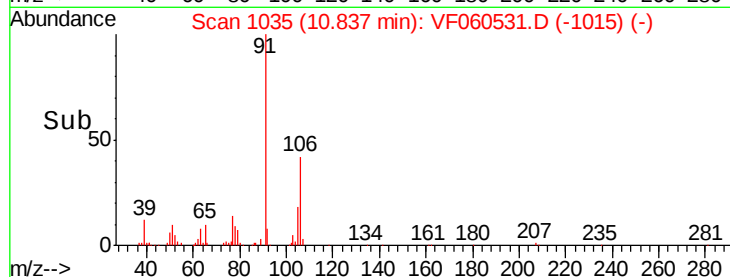
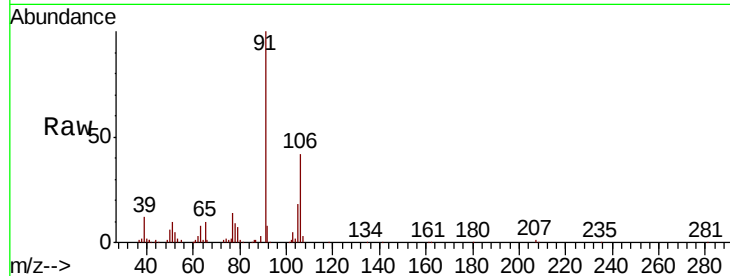
#69
o-Xylene
Concen: 4.935 ug/l
RT: 10.84 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 30007
Ion Ratio Lower Upper
106 100
91 240.1 112.9 338.8

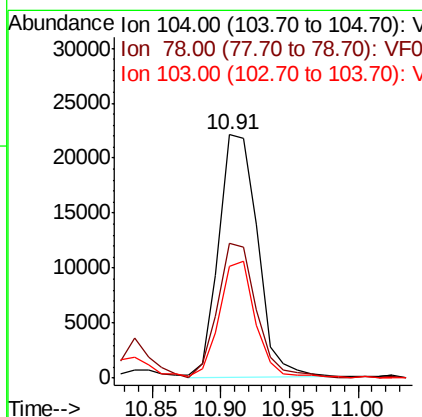
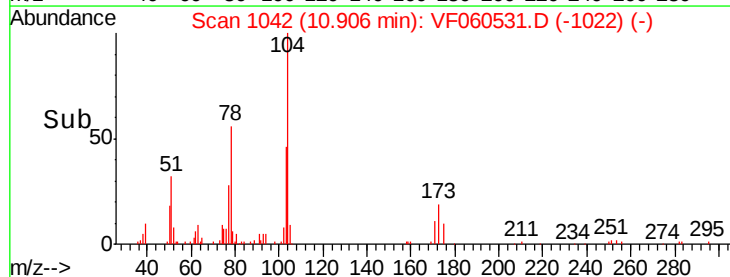
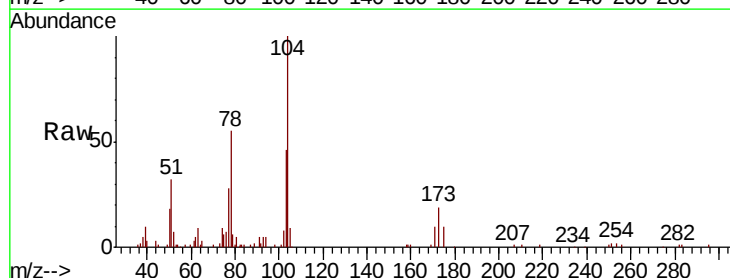
Manual Integrations
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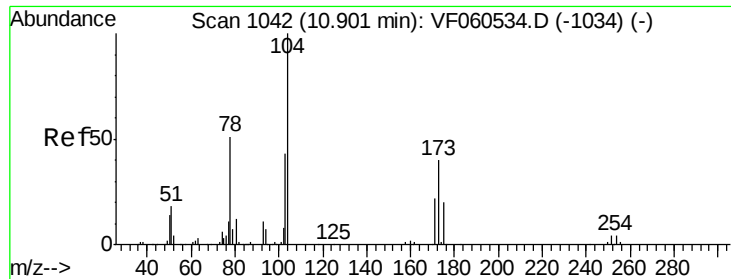
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#70
Styrene
Concen: 5.090 ug/l
RT: 10.91 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion:104 Resp: 43276
Ion Ratio Lower Upper
104 100
78 55.2 43.4 65.2
103 46.1 36.9 55.3





#71

Bromoform

Concen: 3.979 ug/l

RT: 10.90 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

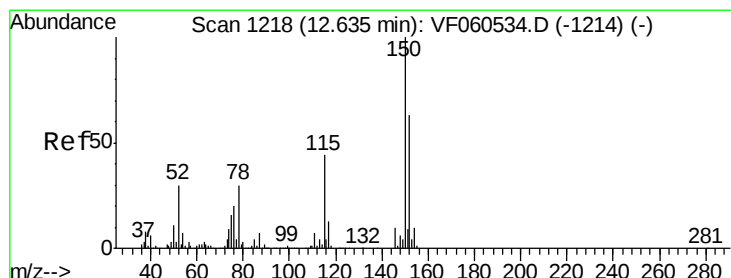
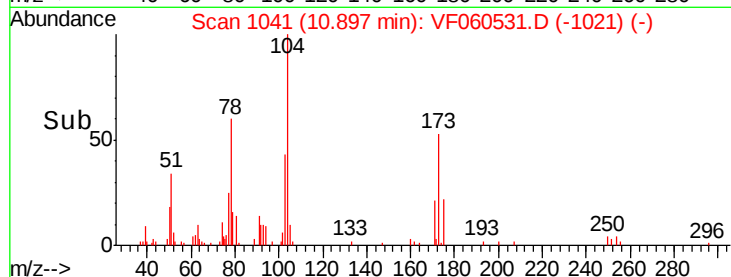
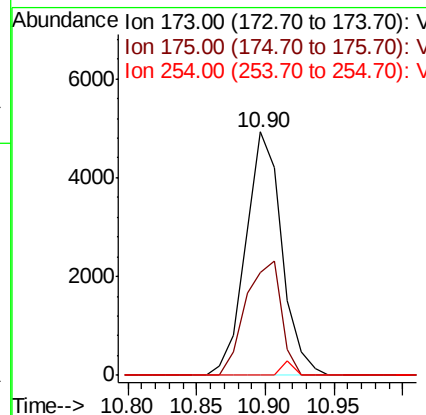
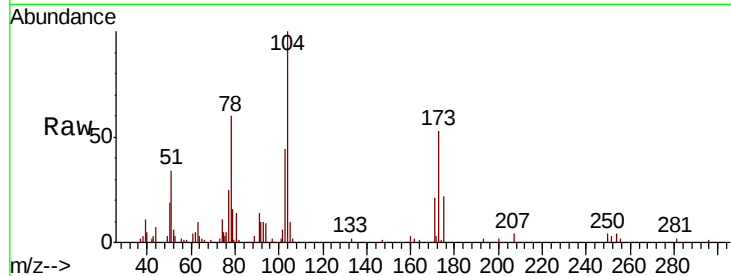
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	41.0	25.7	77.0
254	0.0	7.8	11.6

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

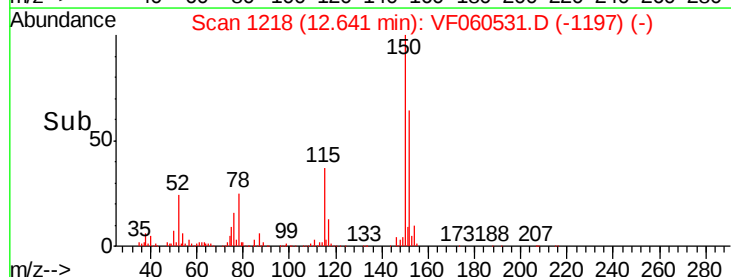
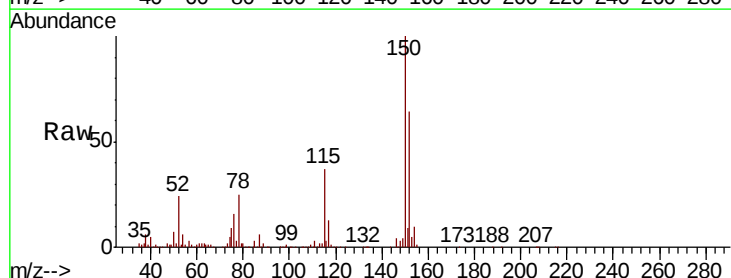
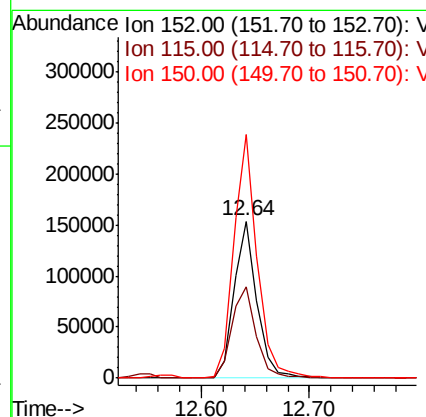
RT: 12.64 min Scan# 1218

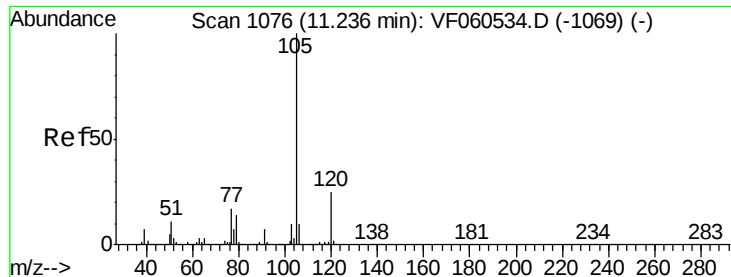
Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.2	34.7	104.1
150	155.4	0.0	318.4





#73

Isopropylbenzene

Concen: 5.364 ug/l

RT: 11.23 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 96521

Ion Ratio Lower Upper

105 100

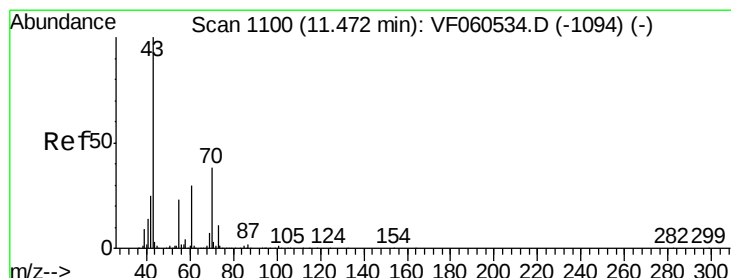
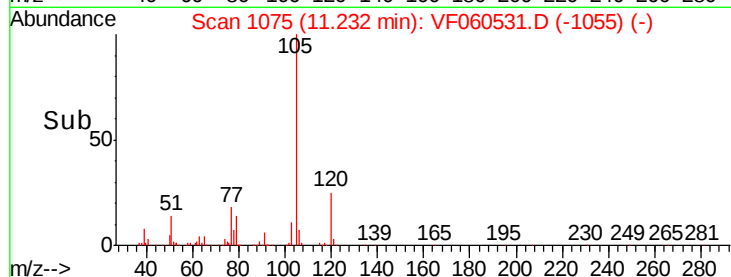
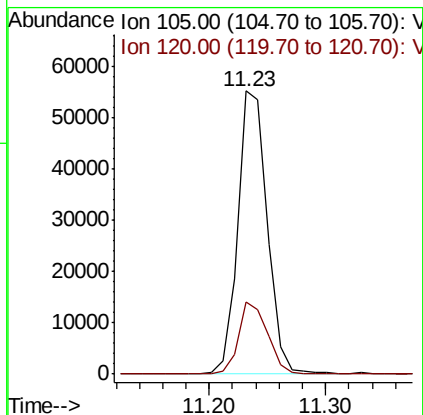
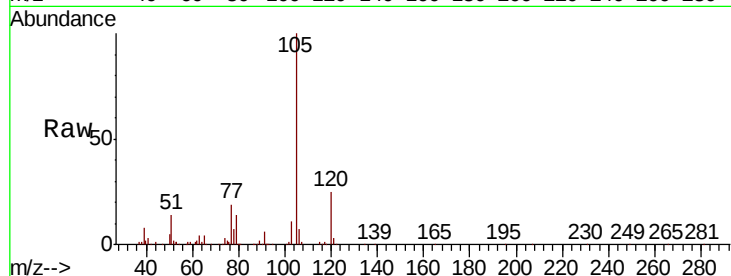
120 25.3 12.3 36.8

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#74

N-ethyl acetate

Concen: 5.772 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion: 43 Resp: 18856

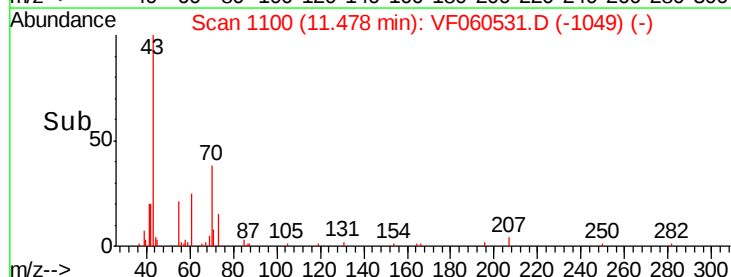
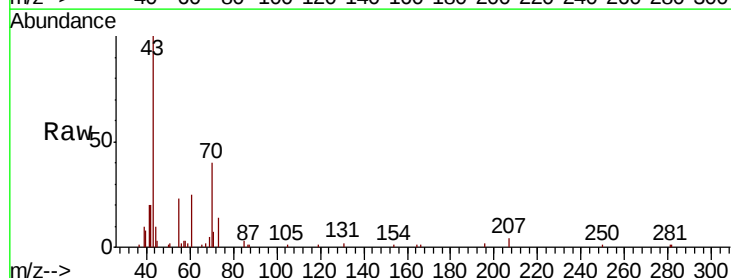
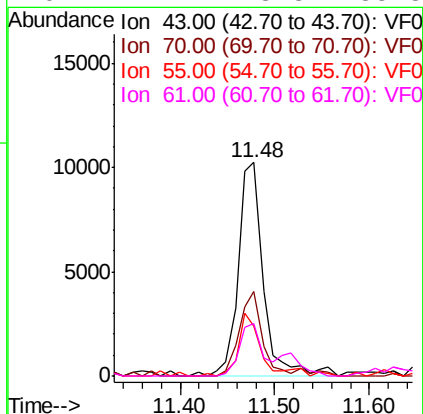
Ion Ratio Lower Upper

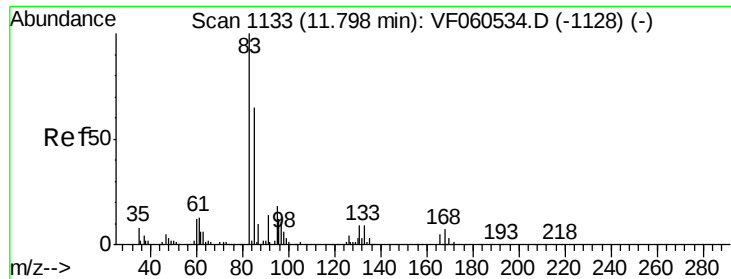
43 100

70 39.6 30.8 46.2

55 23.1 18.2 27.4

61 24.7 23.8 35.8





#75

1,1,2,2-Tetrachloroethane

Concen: 5.411 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

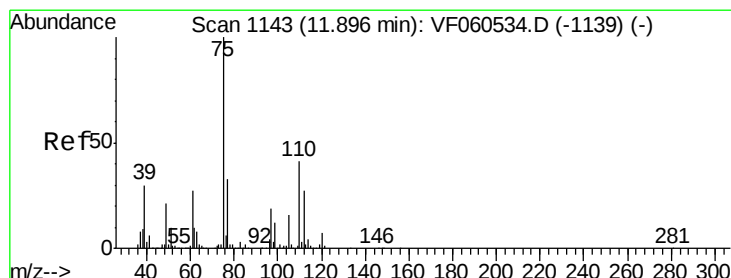
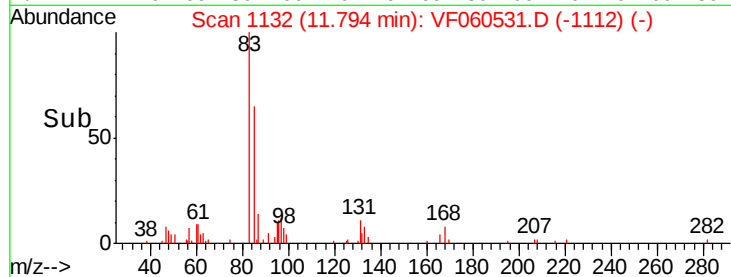
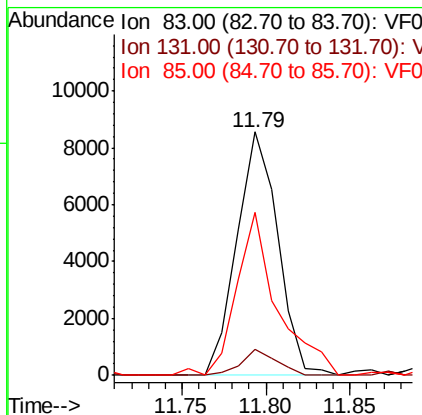
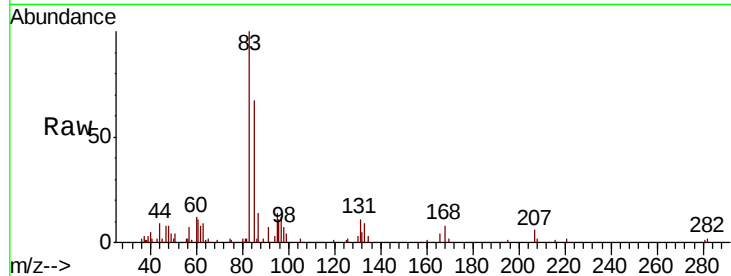
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	14446
Ion	Ratio	Lower	Upper
83	100		
131	10.9	4.7	14.0
85	66.9	32.4	97.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 4.968 ug/l

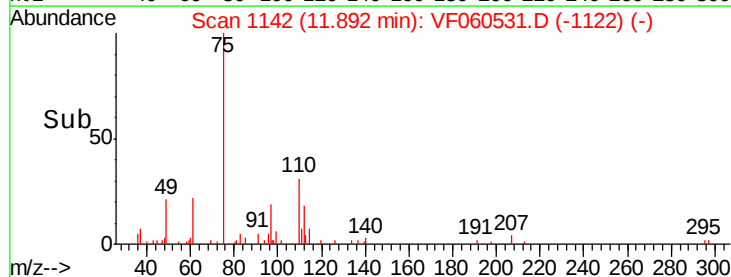
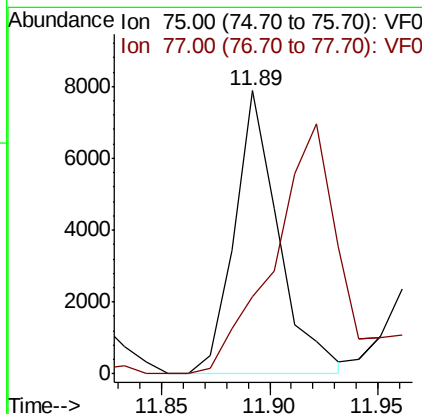
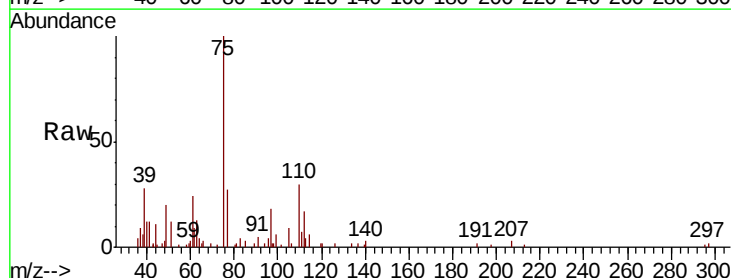
RT: 11.89 min Scan# 1142

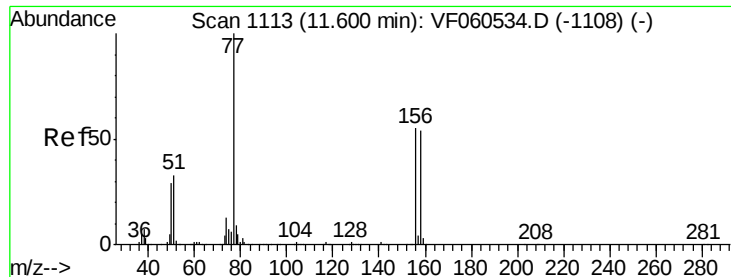
Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion:	75	Resp:	11271
Ion	Ratio	Lower	Upper
75	100		
77	27.1	16.7	50.1





#77

Bromobenzene

Concen: 5.327 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

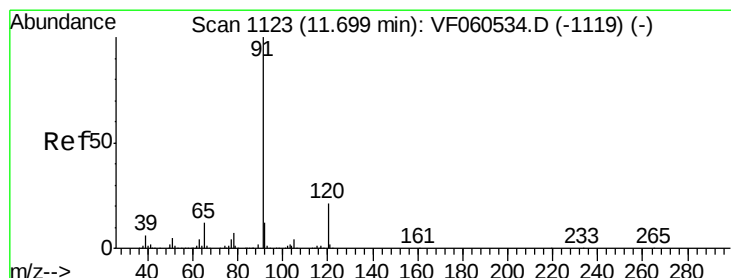
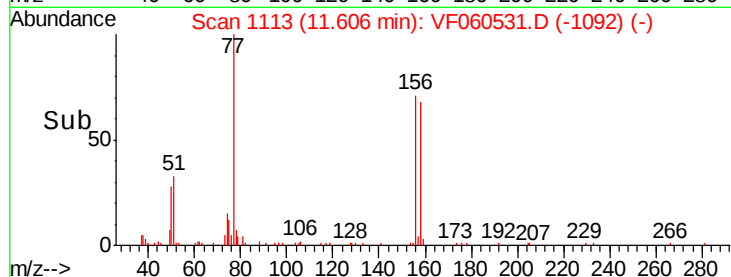
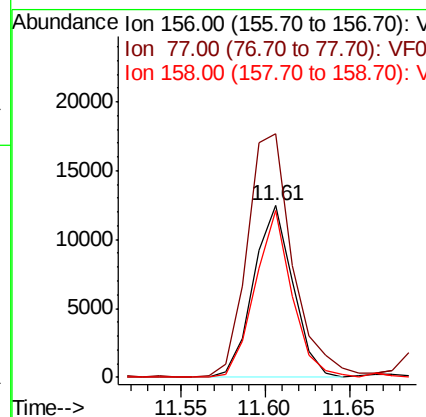
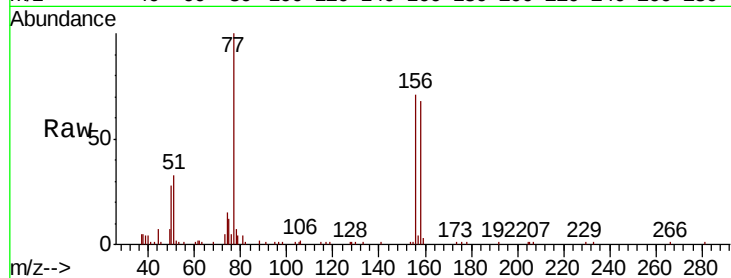
ClientSampleId :

VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		20163		
77	141.6	91.3	274.1		
158	97.0	49.3	147.9		

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#78

n-propylbenzene

Concen: 5.424 ug/l

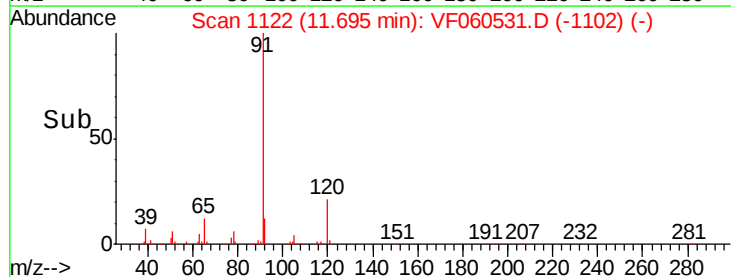
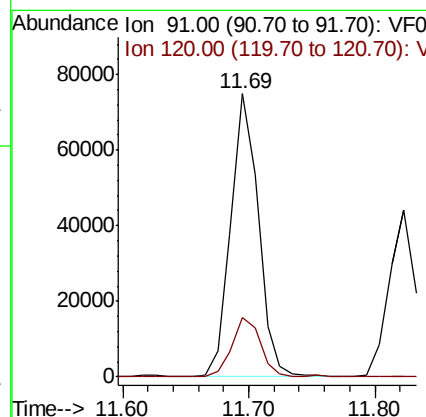
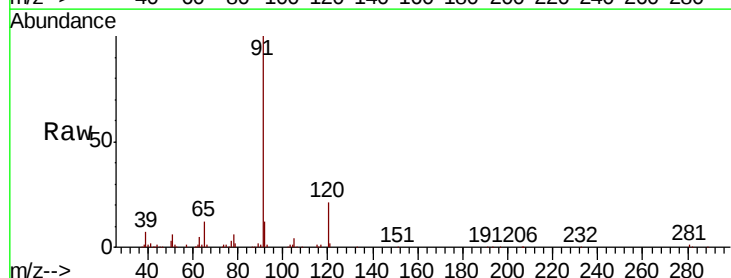
RT: 11.69 min Scan# 1122

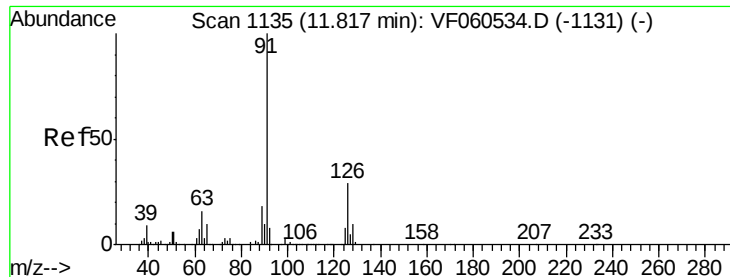
Delta R.T. -0.00 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		113811		
120	20.9	10.7	32.1		





#79

2-Chlorotoluene

Concen: 5.197 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VF060531.D

Acq: 29 Oct 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 66065

Ion Ratio Lower Upper

91 100

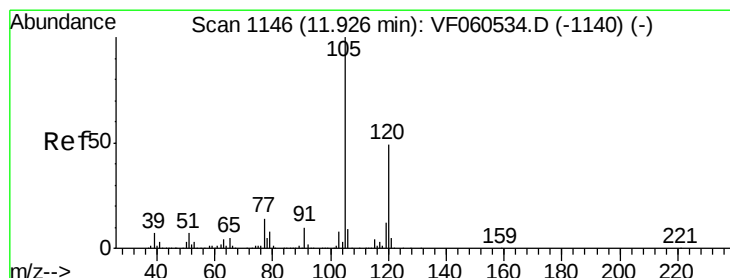
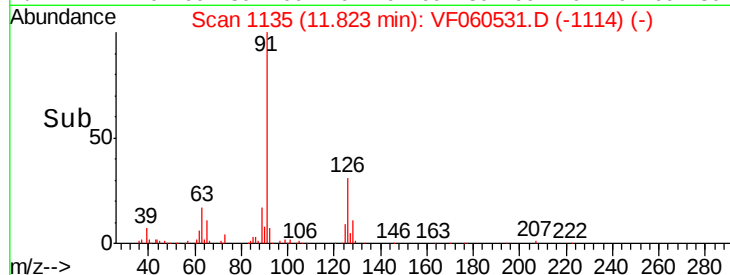
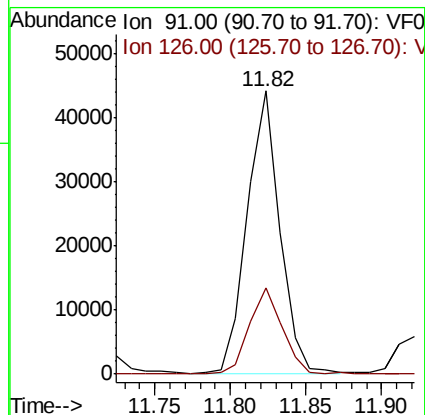
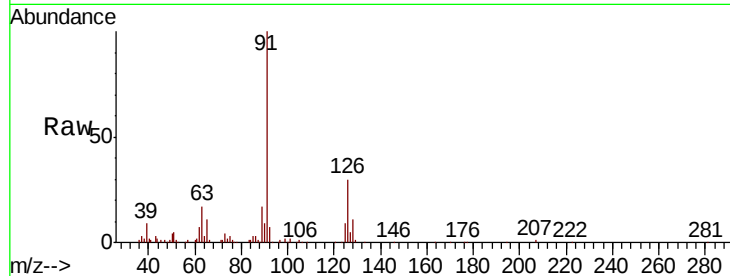
126 30.3 14.2 42.8

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#80

1,3,5-Trimethylbenzene

Concen: 5.046 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF060531.D

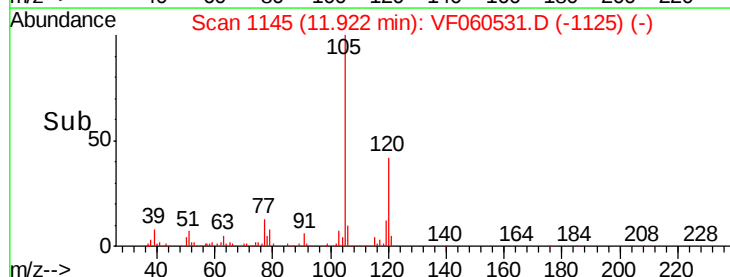
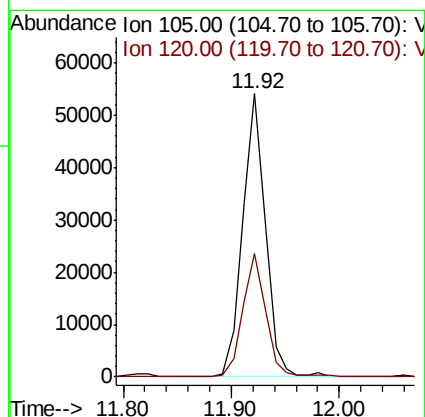
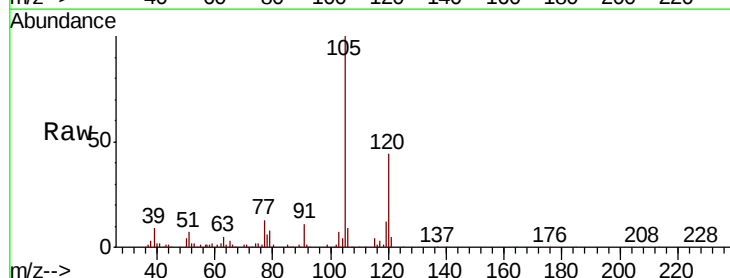
Acq: 29 Oct 2018 15:58

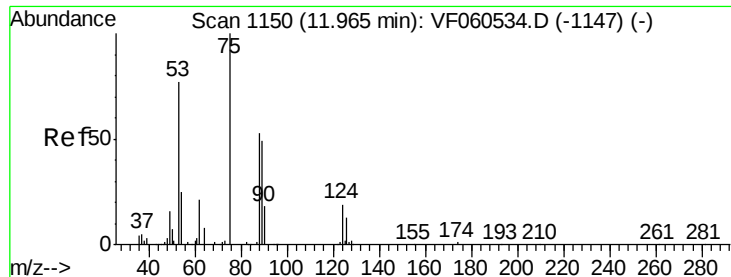
Tgt Ion: 105 Resp: 79466

Ion Ratio Lower Upper

105 100

120 43.6 24.3 73.0





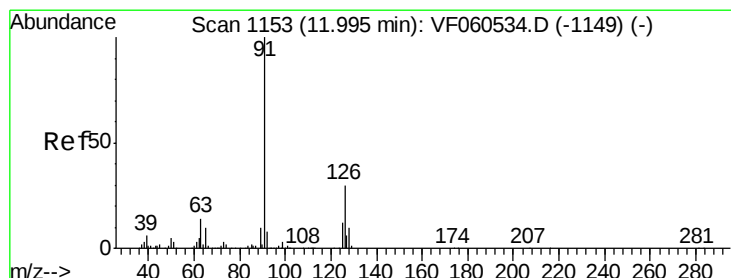
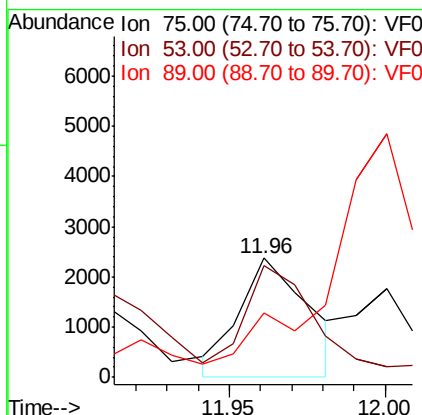
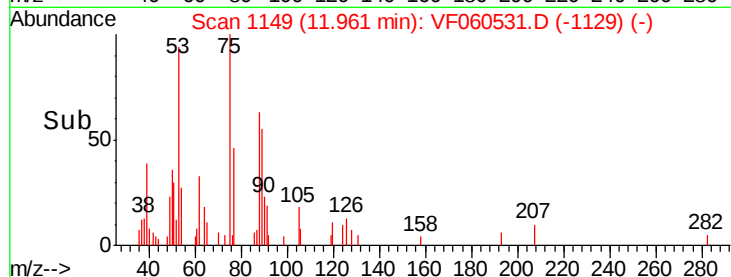
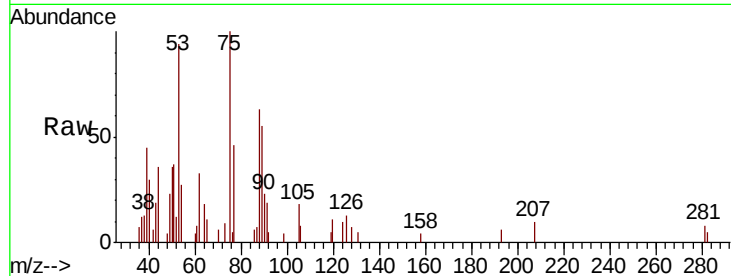
#81
trans-1,4-Dichloro-2-butene
Concen: 3.863 ug/l m
RT: 11.96 min Scan# 1149
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.6	65.8	98.6
89	54.6	44.0	66.0

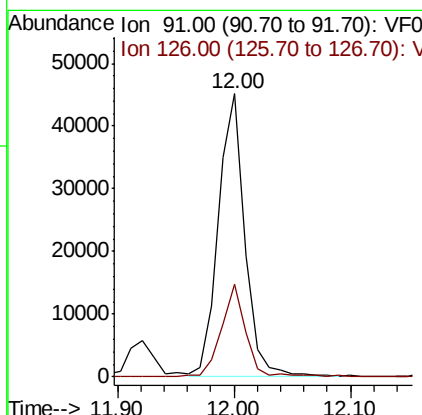
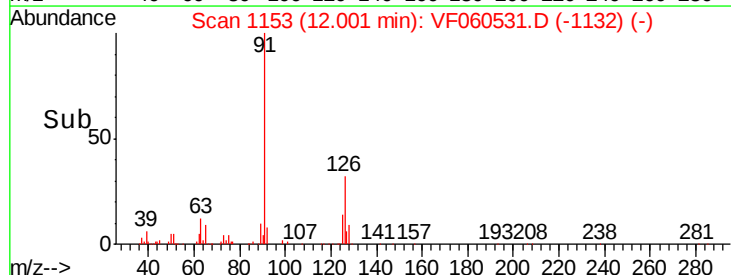
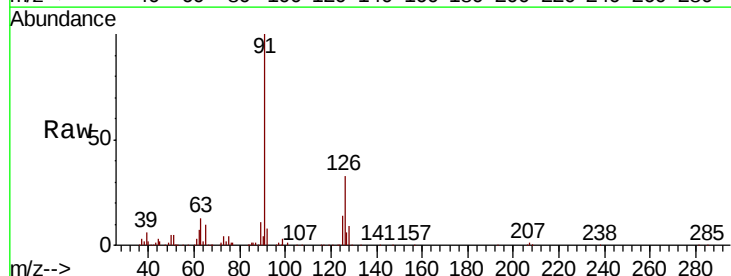
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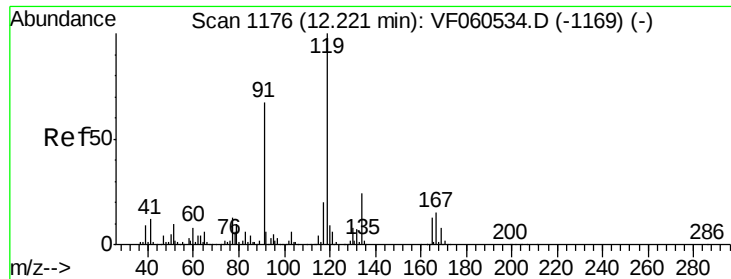
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#82
4-Chlorotoluene
Concen: 5.300 ug/l
RT: 12.00 min Scan# 1153
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.1	45.3





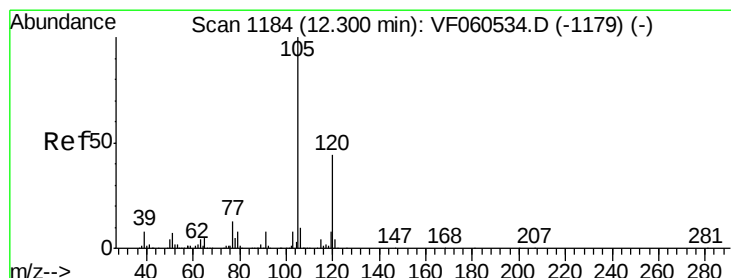
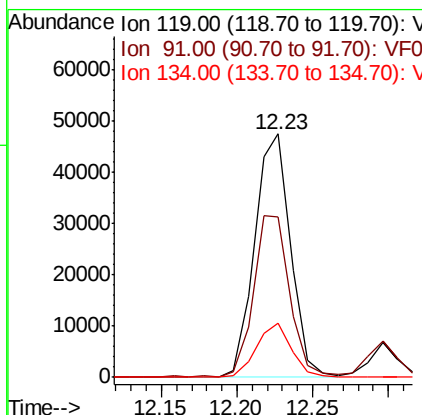
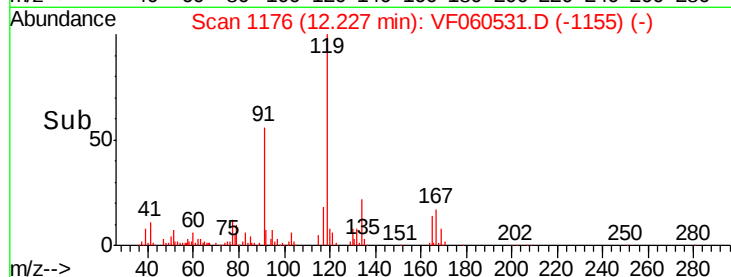
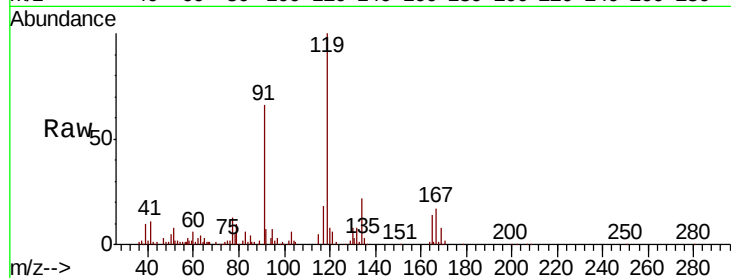
#83
tert-Butylbenzene
Concen: 5.014 ug/l
RT: 12.23 min Scan# 1176
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.8	33.6	100.8
134	22.4	12.0	36.0

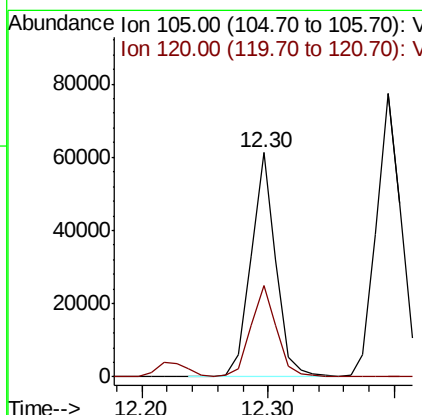
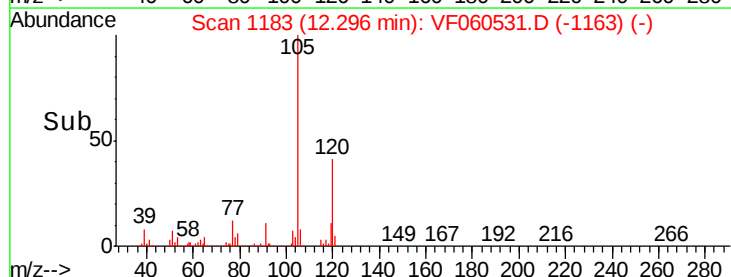
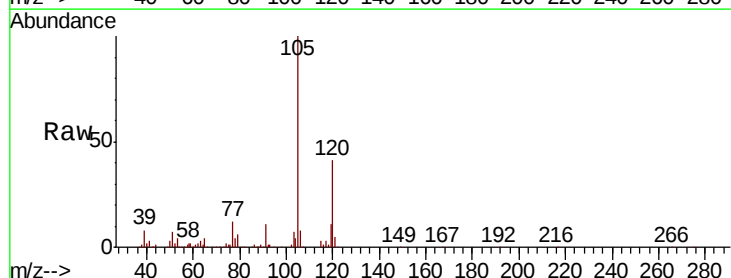
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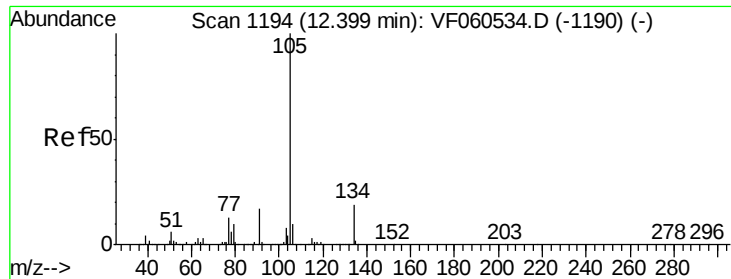
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#84
1,2,4-Trimethylbenzene
Concen: 5.374 ug/l
RT: 12.30 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.0	22.0	66.0





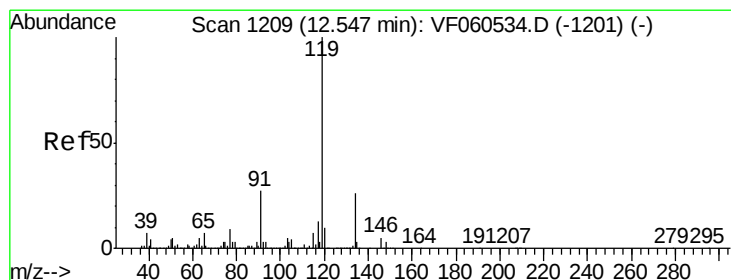
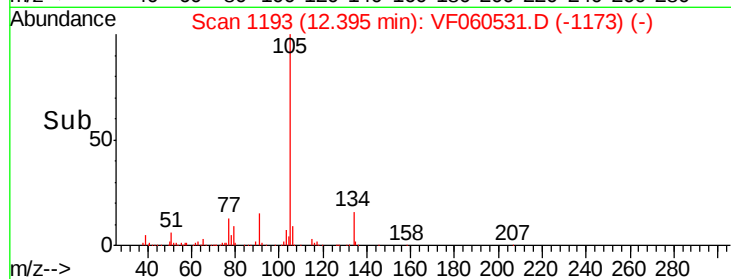
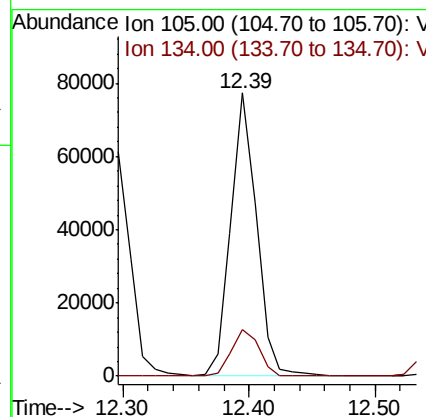
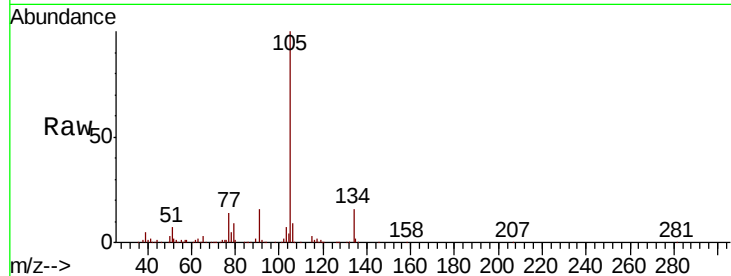
#85
 sec-Butylbenzene
 Concen: 5.136 ug/l
 RT: 12.39 min Scan# 1193
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
105	100	109383		
134	16.4	9.6	28.6	

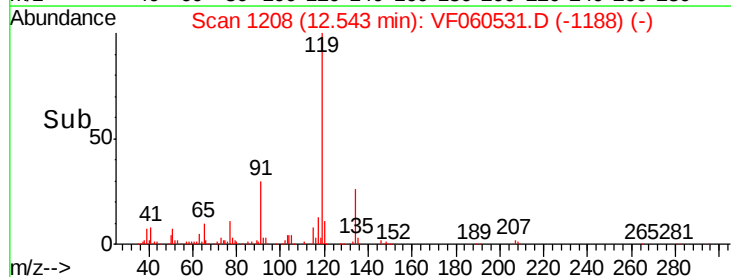
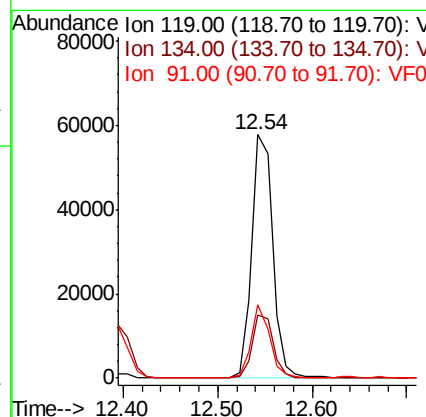
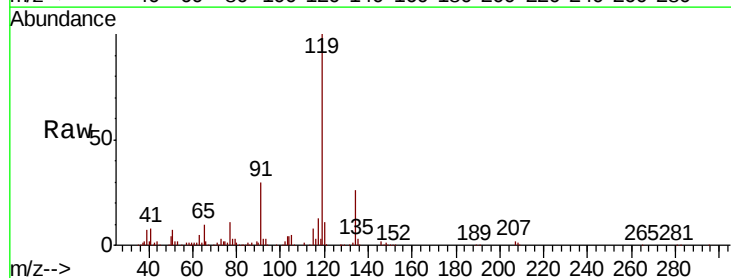
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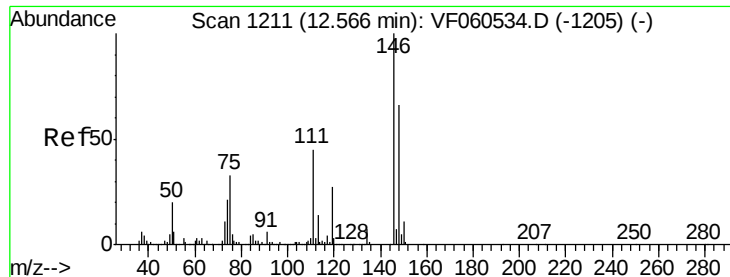
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#86
 p-Isopropyltoluene
 Concen: 4.937 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	88931		
134	26.1	13.1	39.1	
91	29.9	13.5	40.4	





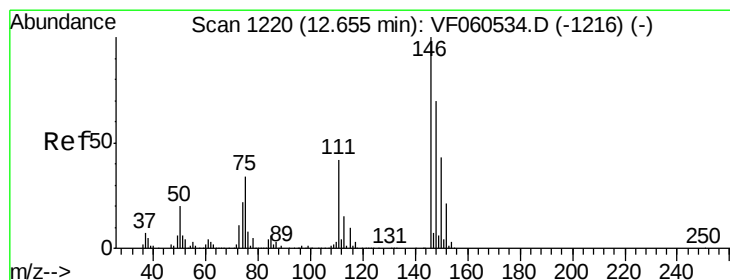
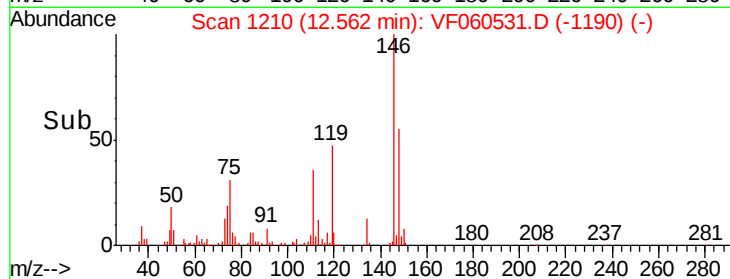
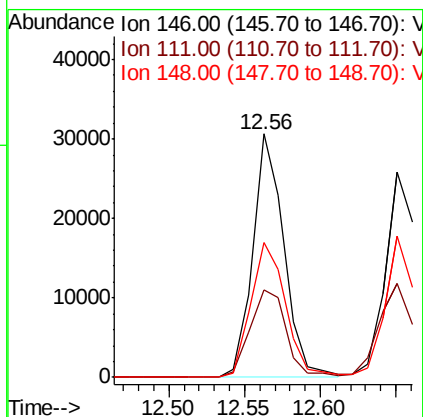
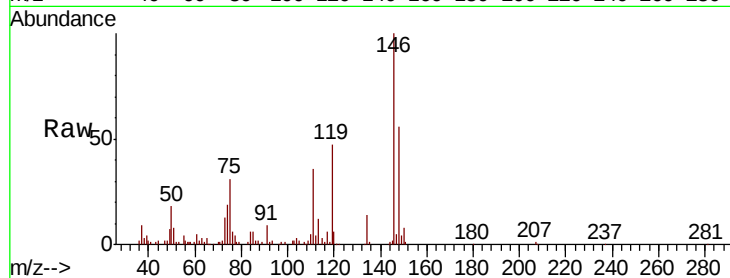
#87
 1,3-Dichlorobenzene
 Concen: 5.757 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.7	22.6	67.7
148	55.6	33.1	99.3

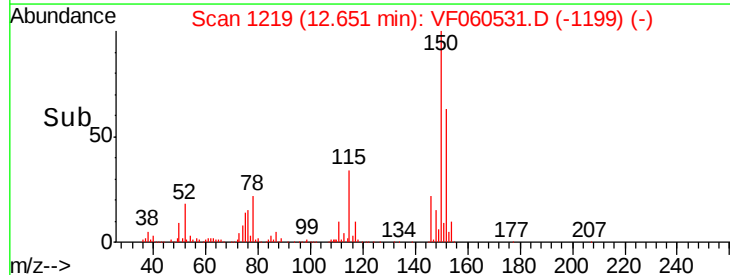
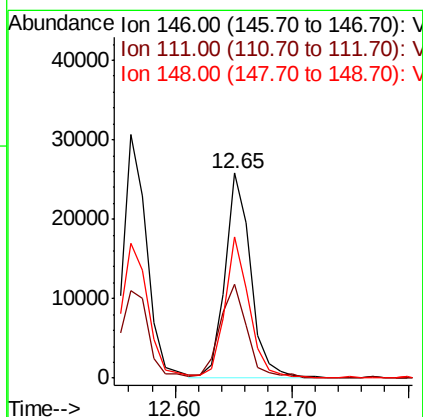
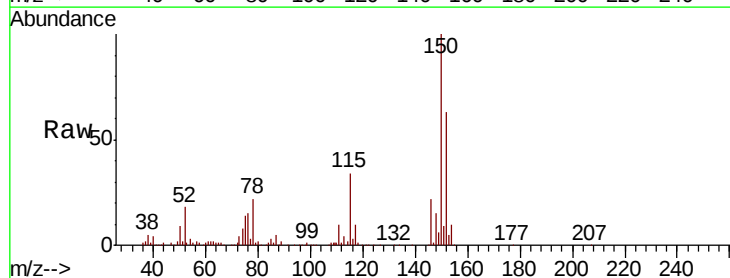
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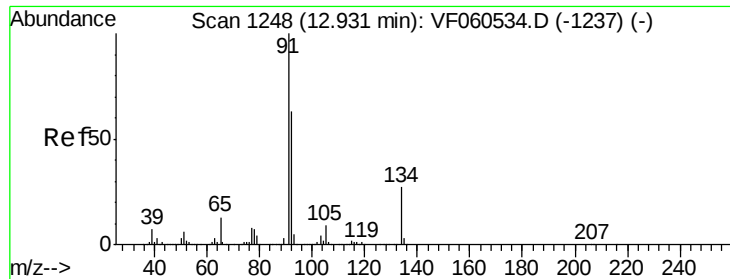
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#88
 1,4-Dichlorobenzene
 Concen: 5.337 ug/l
 RT: 12.65 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.2	63.6
148	68.6	35.1	105.5





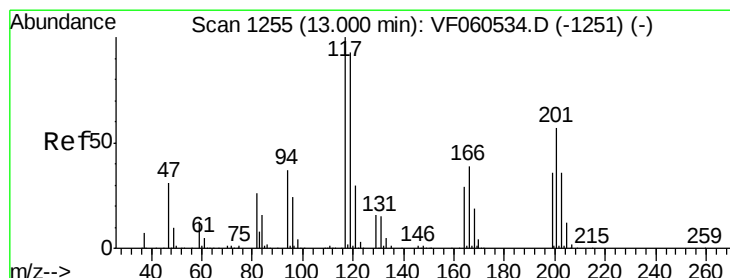
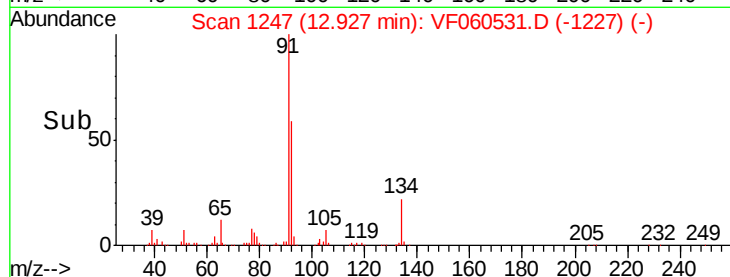
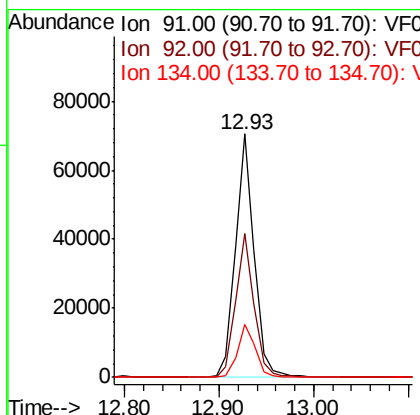
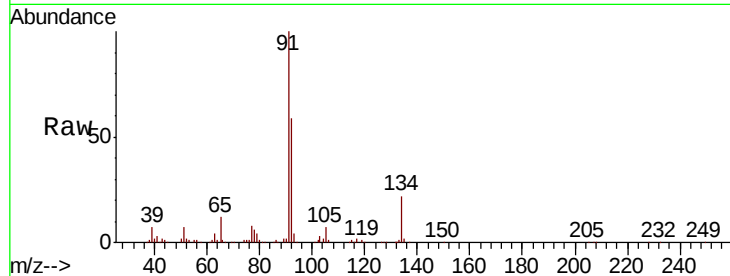
#89
n-Butylbenzene
Concen: 5.045 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. -0.00 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.0	31.3	93.9
134	21.8	13.3	39.8

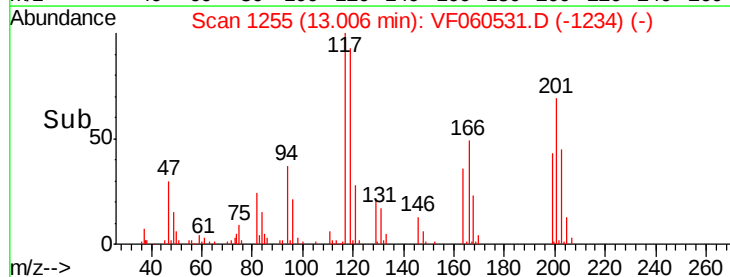
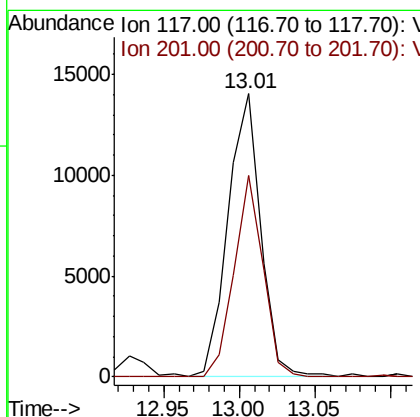
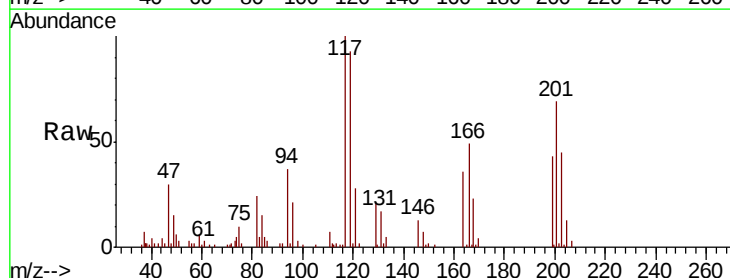
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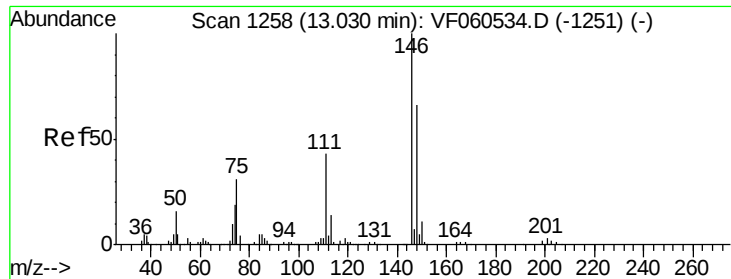
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#90
Hexachloroethane
Concen: 4.470 ug/l
RT: 13.01 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	71.0	28.2	84.7





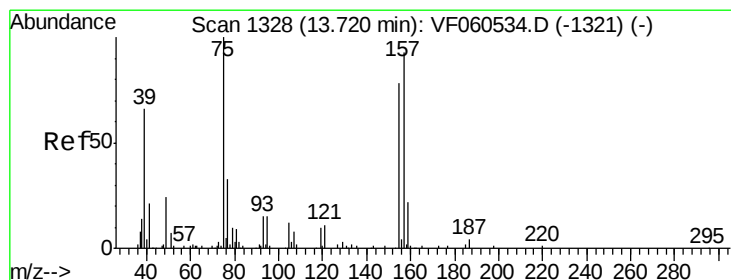
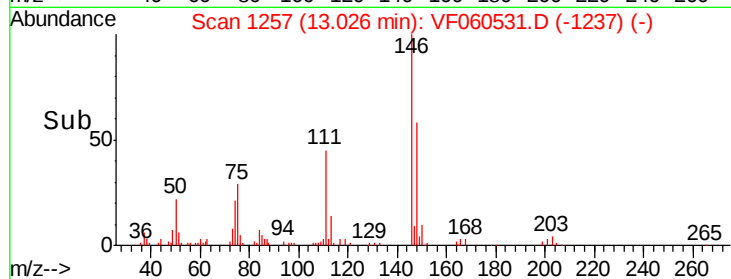
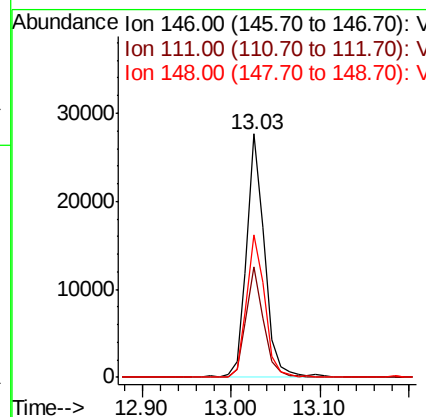
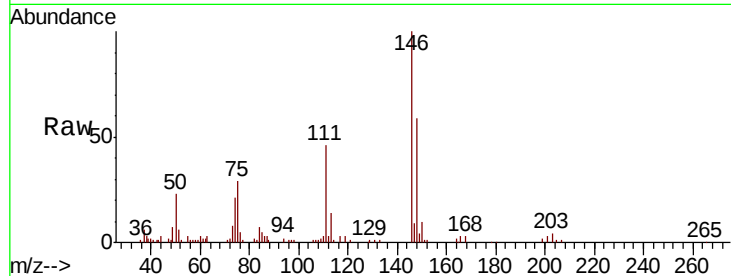
#91
 1,2-Dichlorobenzene
 Concen: 5.301 ug/l
 RT: 13.03 min Scan# 1257
 Delta R.T. -0.00 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.5	64.5
148	58.6	33.1	99.5

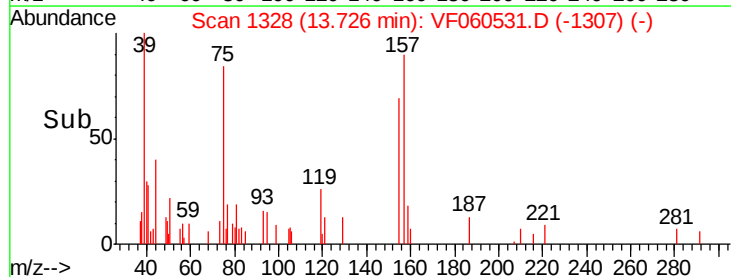
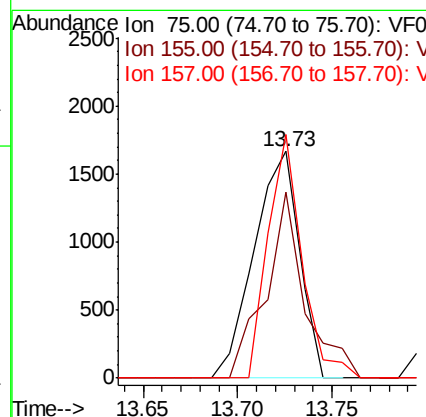
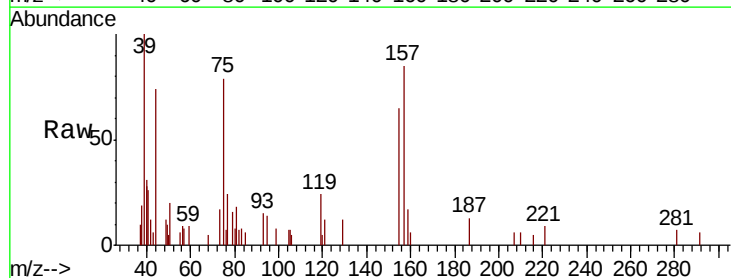
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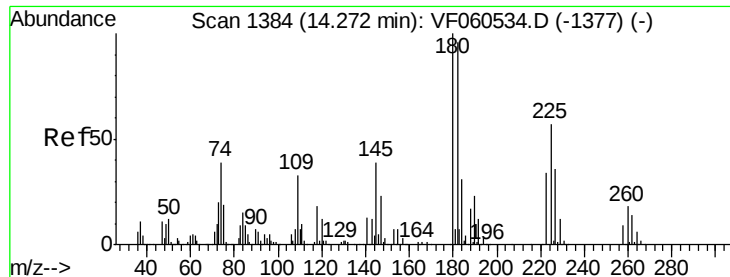
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.264 ug/l
 RT: 13.73 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.2	40.8	122.5
157	107.6	46.5	139.5





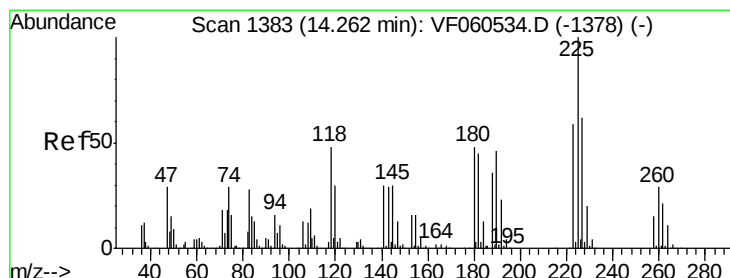
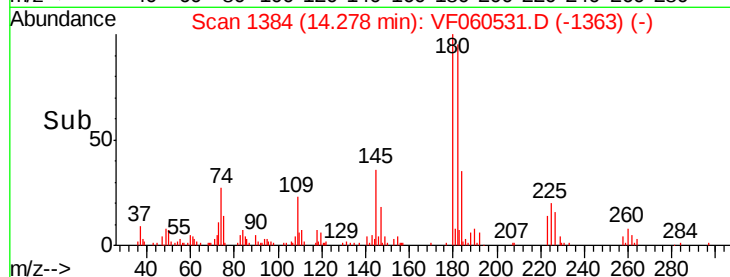
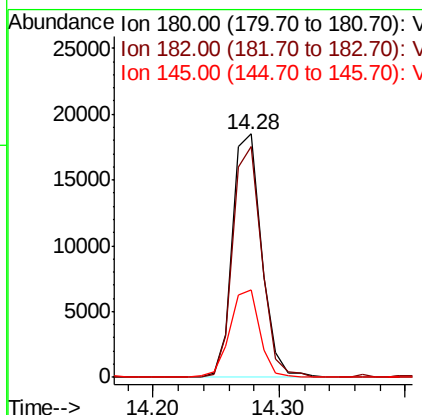
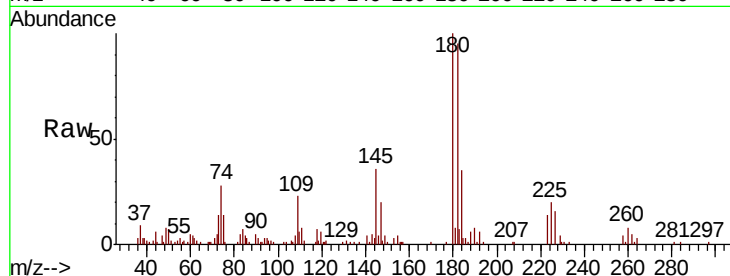
#93
 1,2,4-Trichlorobenzene
 Concen: 5.013 ug/l
 RT: 14.28 min Scan# 1384
 Delta R.T. 0.01 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	29463		
182	94.7	48.1	144.3	
145	35.8	19.5	58.5	

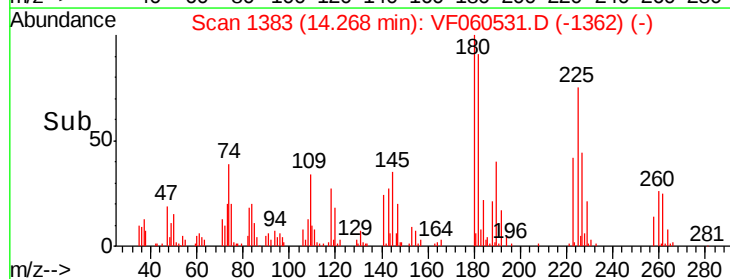
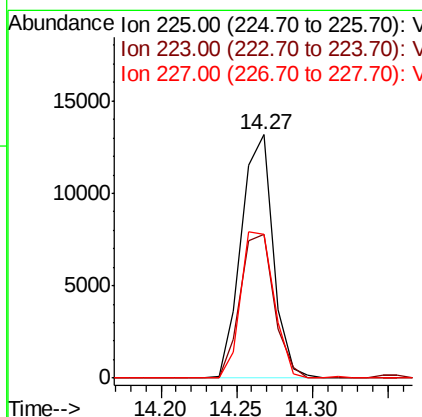
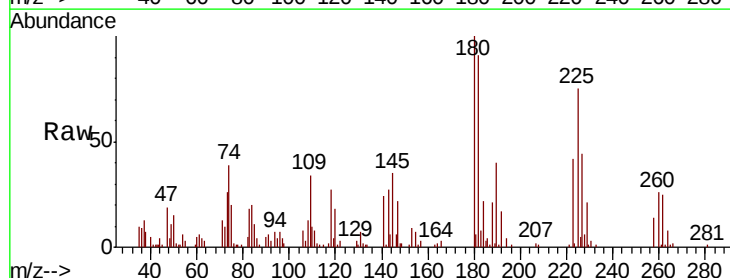
Manual Integrations
 APPROVED

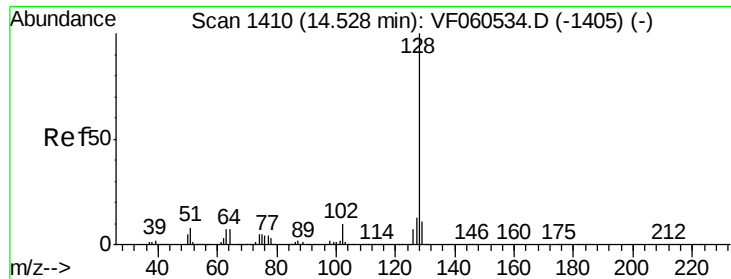
apatel
 10/30/2018 2:06:35 PM



#94
 Hexachlorobutadiene
 Concen: 4.487 ug/l
 RT: 14.27 min Scan# 1383
 Delta R.T. 0.01 min
 Lab File: VF060531.D
 Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	19435		
223	58.8	29.5	88.5	
227	59.3	31.3	93.8	





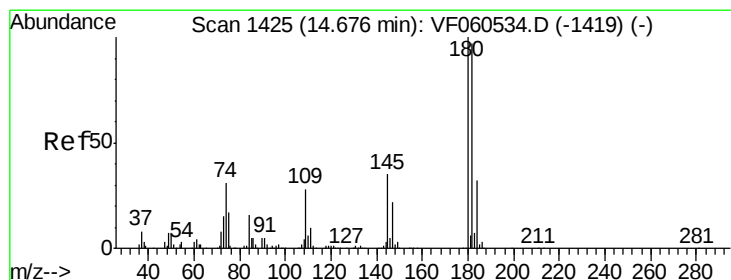
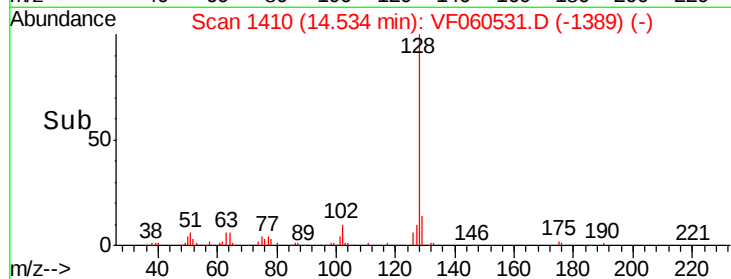
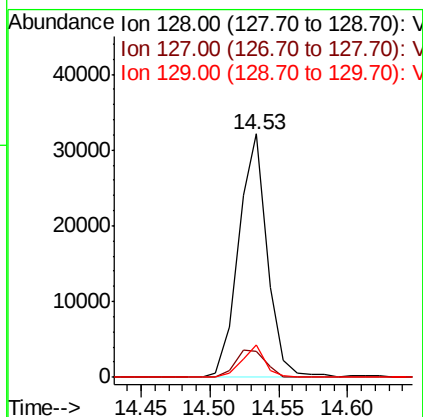
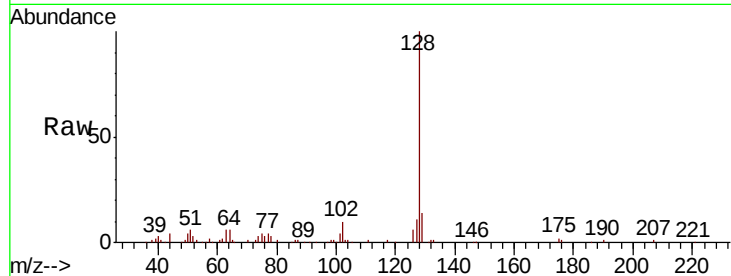
#95
Naphthalene
Concen: 4.938 ug/l
RT: 14.53 min Scan# 1410
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.8	10.1	15.1
129	13.6	8.7	13.1

Manual Integrations
APPROVED

apatel
10/30/2018 2:06:35 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.688 ug/l
RT: 14.68 min Scan# 1425
Delta R.T. 0.01 min
Lab File: VF060531.D
Acq: 29 Oct 2018 15:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	103.3	48.7	146.1
145	33.6	17.3	52.0

