

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060297.D
 Acq On : 20 Sep 2018 12:22
 Operator : VA/AP
 Sample : VF0920SBS01
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0920SBS01

Manual Integrations
 APPROVED

apatel
 9/21/2018 11:04:55 AM

Quant Time: Sep 20 15:59:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	233921	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	392068	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	339955	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	184801	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	164979	52.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.76%	
35) Dibromofluoromethane	4.27	113	177201	50.70	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	101.40%	
50) Toluene-d8	7.69	98	423440	46.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	93.04%	
62) 4-Bromofluorobenzene	11.49	95	176067	44.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.50%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	112306	29.499	ug/l	95
3) Chloromethane	1.12	50	76340	23.948	ug/l	92
4) Vinyl Chloride	1.17	62	79631	24.512	ug/l	97
5) Bromomethane	1.35	94	48665	22.733	ug/l	91
6) Chloroethane	1.43	64	36660	23.694	ug/l	90
7) Trichlorofluoromethane	1.53	101	153475	25.358	ug/l	99
8) Diethyl Ether	1.69	74	24769	24.598	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.89	101	80953	25.150	ug/l	90
10) Methyl Iodide	1.96	142	126539	24.378	ug/l	95
11) Tert butyl alcohol	2.67	59	29440	161.560	ug/l	95
12) 1,1-Dichloroethene	1.85	96	67012	25.174	ug/l	95
13) Acrolein	2.08	56	12063	199.054	ug/l	93
14) Allyl chloride	2.18	41	113591	24.453	ug/l	92
15) Acrylonitrile	3.06	53	52822	118.738	ug/l	94
16) Acetone	2.33	43	130233	146.815	ug/l	98
17) Carbon Disulfide	1.88	76	206737	27.853	ug/l	97
18) Methyl Acetate	2.43	43	33281	22.521	ug/l	93
19) Methyl tert-butyl Ether	2.52	73	171752	25.881	ug/l	100
20) Methylene Chloride	2.27	84	76707m	28.876	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	67940	24.711	ug/l	91
22) Diisopropyl ether	2.91	45	213818	24.396	ug/l	96
23) Vinyl Acetate	3.31	43	411616	119.577	ug/l	100
24) 1,1-Dichloroethane	2.99	63	133543	23.494	ug/l #	98
25) 2-Butanone	4.48	43	145691	122.022	ug/l	99
26) 2,2-Dichloropropane	3.74	77	74702	23.033	ug/l	98
27) cis-1,2-Dichloroethene	3.61	96	78008	21.597	ug/l	93
28) Bromochloromethane	3.86	49	46280	20.913	ug/l	86
29) Tetrahydrofuran	4.23	42	55594	127.148	ug/l	97
30) Chloroform	4.01	83	157079	22.903	ug/l	96
31) Cyclohexane	3.83	56	105904	22.058	ug/l	92
32) 1,1,1-Trichloroethane	4.25	97	131172	24.239	ug/l	95
36) 1,1-Dichloropropene	4.44	75	116507	23.823	ug/l	94
37) Ethyl Acetate	4.26	43	47503	22.956	ug/l #	91
38) Carbon Tetrachloride	4.15	117	126964m	24.170	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060297.D
 Acq On : 20 Sep 2018 12:22
 Operator : VA/AP
 Sample : VF0920SBS01
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0920SBS01

Manual Integrations
 APPROVED

apatel
 9/21/2018 11:04:55 AM

Quant Time: Sep 20 15:59:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.61	83	123707	23.339	ug/l	94
40) Benzene	4.78	78	237617	21.428	ug/l	93
41) Methacrylonitrile	4.90	41	23511	20.939	ug/l	98
42) 1,2-Dichloroethane	5.10	62	96417	23.622	ug/l	96
43) Isopropyl Acetate	7.09	43	50724	20.362	ug/l #	99
44) Trichloroethene	5.66	130	73378	22.234	ug/l	97
45) 1,2-Dichloropropane	6.38	63	64274	22.396	ug/l #	86
46) Dibromomethane	6.23	93	46213	22.527	ug/l	95
47) Bromodichloromethane	6.52	83	111003	22.516	ug/l	93
48) Methyl methacrylate	6.85	41	38107	21.791	ug/l	90
49) 1,4-Dioxane	6.84	88	8615	551.430	ug/l #	89
51) 4-Methyl-2-Pentanone	8.39	43	198150	103.201	ug/l	94
52) Toluene	7.76	92	153275	21.849	ug/l	97
53) t-1,3-Dichloropropene	8.41	75	92281	23.206	ug/l	99
54) cis-1,3-Dichloropropene	7.43	75	107473	21.453	ug/l	97
55) 1,1,2-Trichloroethane	8.61	97	47394	22.259	ug/l	94
56) Ethyl methacrylate	8.74	69	49567	19.276	ug/l	97
57) 1,3-Dichloropropane	8.98	76	79616	22.583	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.76	63	25488	112.120	ug/l	100
59) 2-Hexanone	9.61	43	139655	102.156	ug/l	96
60) Dibromochloromethane	8.84	129	70336	22.164	ug/l	97
61) 1,2-Dibromoethane	9.12	107	50115	21.137	ug/l	94
64) Tetrachloroethene	8.29	164	64056	20.785	ug/l	95
65) Chlorobenzene	9.92	112	160669	20.853	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.05	131	70140	21.936	ug/l	95
67) Ethyl Benzene	10.01	91	309143	21.700	ug/l	96
68) m/p-Xylenes	10.25	106	217314	44.153	ug/l	99
69) o-Xylene	10.81	106	120349	21.801	ug/l	98
70) Styrene	10.88	104	174125	22.366	ug/l	97
71) Bromoform	10.87	173	41420	23.587	ug/l #	100
73) Isopropylbenzene	11.21	105	362737	21.865	ug/l	96
74) N-amyl acetate	11.44	43	67541	19.092	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.77	83	65453	22.262	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	48175	22.884	ug/l	84
77) Bromobenzene	11.58	156	72939	20.401	ug/l	96
78) n-propylbenzene	11.67	91	445272	22.672	ug/l	97
79) 2-Chlorotoluene	11.80	91	243460	21.755	ug/l	96
80) 1,3,5-Trimethylbenzene	11.90	105	290867	21.781	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	25969m	23.342	ug/l	
82) 4-Chlorotoluene	11.98	91	244517	21.739	ug/l	99
83) tert-Butylbenzene	12.20	119	296291	21.887	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	303464	22.378	ug/l	97
85) sec-Butylbenzene	12.37	105	418241	21.823	ug/l	94
86) p-Isopropyltoluene	12.53	119	332860	21.989	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	146519	21.930	ug/l	98
88) 1,4-Dichlorobenzene	12.64	146	142375	21.560	ug/l	98
89) n-Butylbenzene	12.90	91	365119	22.475	ug/l	97
90) Hexachloroethane	12.98	117	83389	22.013	ug/l	93
91) 1,2-Dichlorobenzene	13.01	146	140817	22.095	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.70	75	12925	23.414	ug/l	87

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF092018\
Data File : VF060297.D
Acq On : 20 Sep 2018 12:22
Operator : VA/AP
Sample : VF0920SBS01
Misc : 5.00/5mL/MSVOA F/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

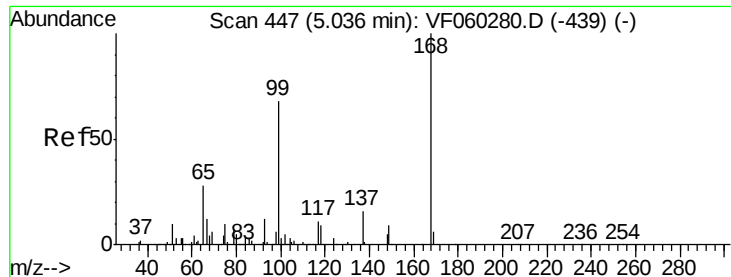
Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM

Quant Time: Sep 20 15:59:25 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	101127	21.830	ug/l	99
94) Hexachlorobutadiene	14.24	225	67685	21.614	ug/l	99
95) Naphthalene	14.51	128	168113	20.699	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	96464	22.536	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion:168 Resp: 233921

Ion Ratio Lower Upper

168 100

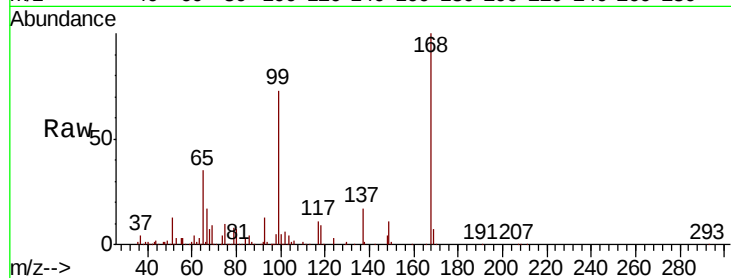
99 73.5 54.8 82.2

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

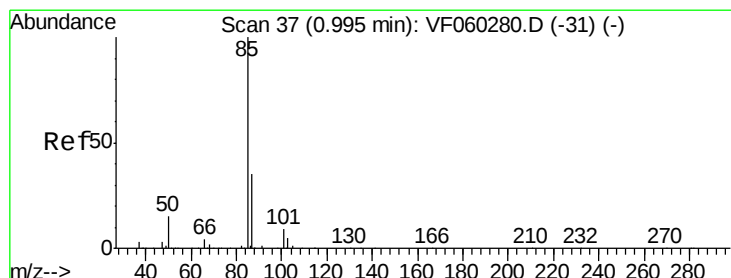
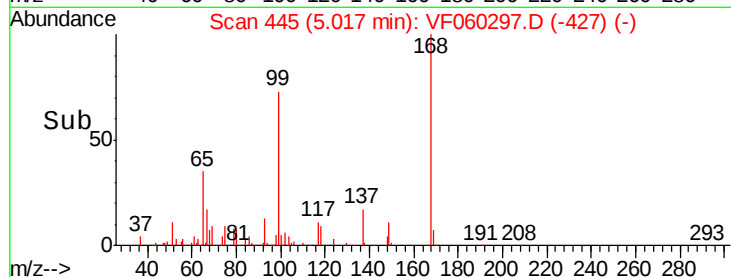
40000

20000

0

Time-->

4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 29.499 ug/l

RT: 1.00 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060297.D

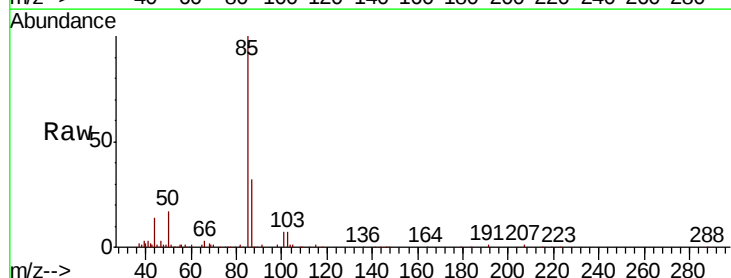
Acq: 20 Sep 2018 12:22

Tgt Ion: 85 Resp: 112306

Ion Ratio Lower Upper

85 100

87 31.9 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

40000

30000

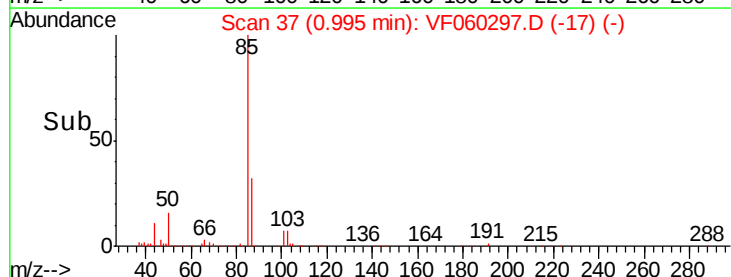
20000

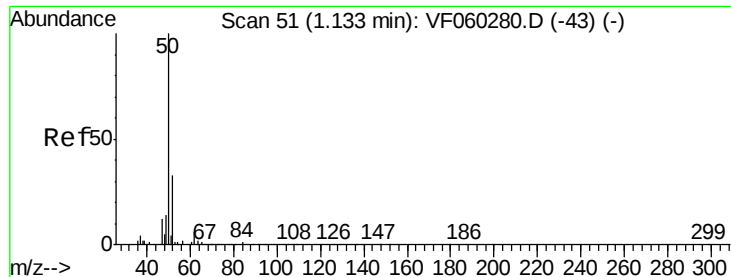
10000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 23.948 ug/l

RT: 1.12 min Scan# 50

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 50 Resp: 76340

Ion Ratio Lower Upper

50 100

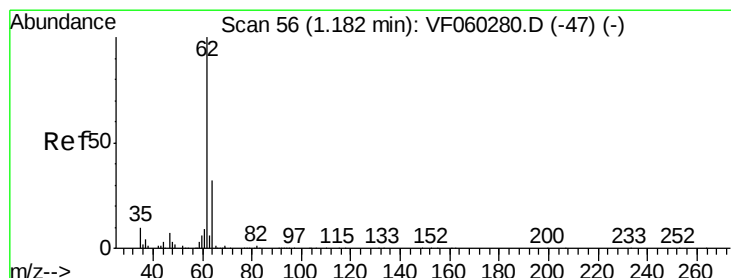
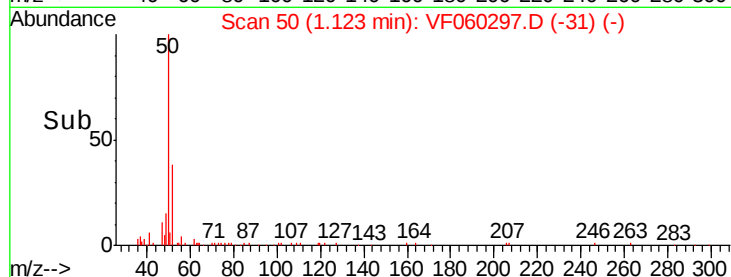
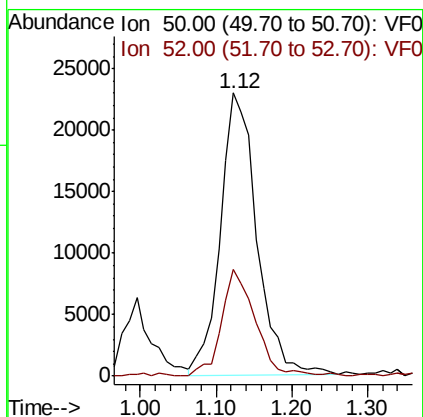
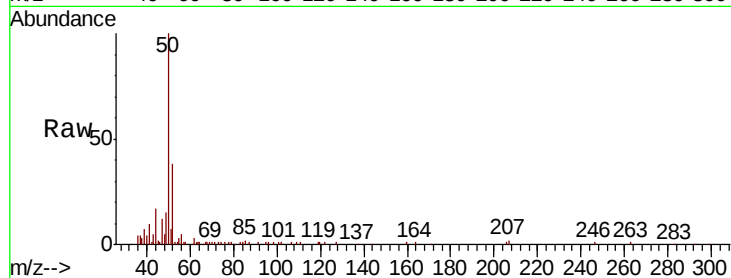
52 37.9 26.5 39.7

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#4

Vinyl Chloride

Concen: 24.512 ug/l

RT: 1.17 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF060297.D

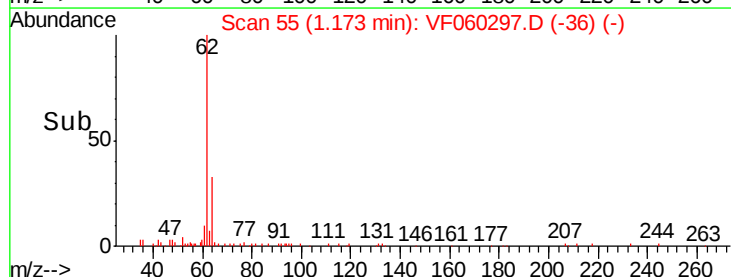
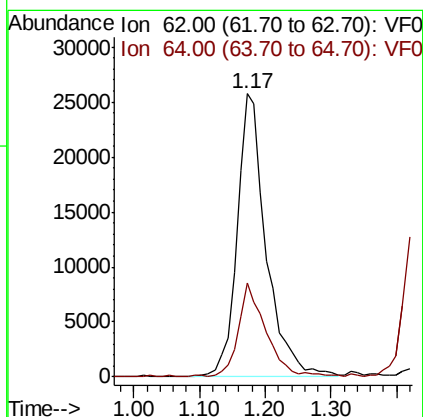
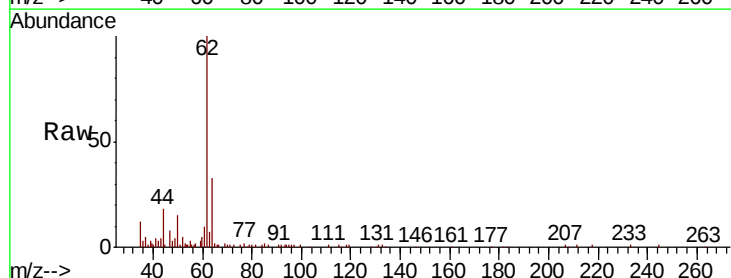
Acq: 20 Sep 2018 12:22

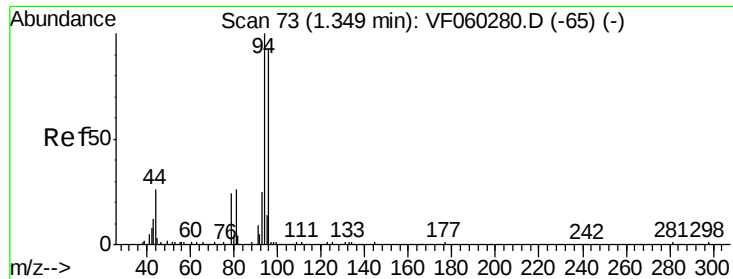
Tgt Ion: 62 Resp: 79631

Ion Ratio Lower Upper

62 100

64 33.0 25.2 37.8





#5

Bromomethane

Concen: 22.733 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 94 Resp: 48665

Ion Ratio Lower Upper

94 100

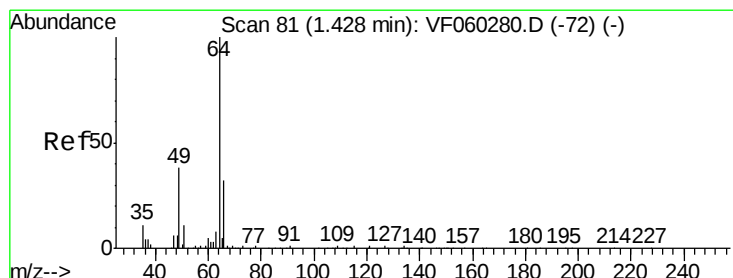
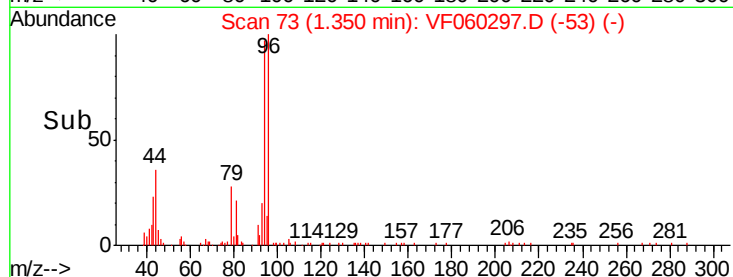
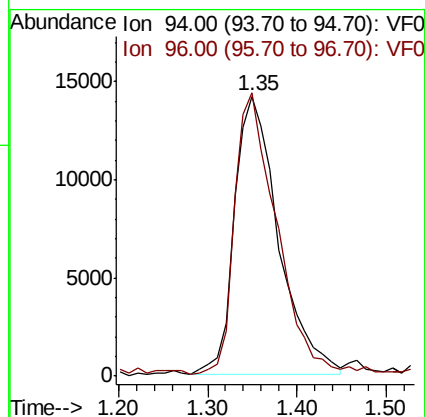
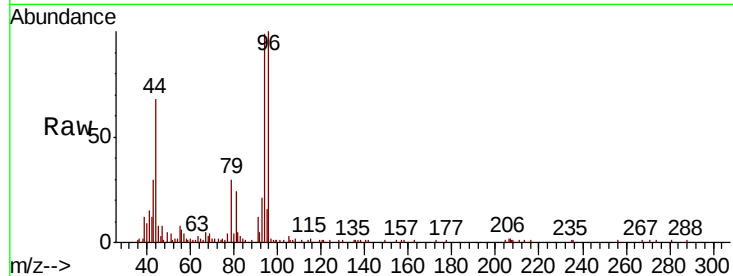
96 101.2 73.9 110.9

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#6

Chloroethane

Concen: 23.694 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF060297.D

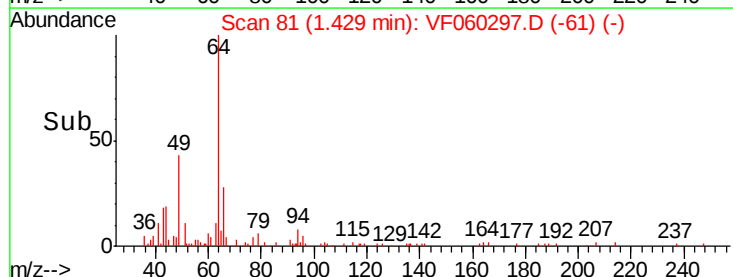
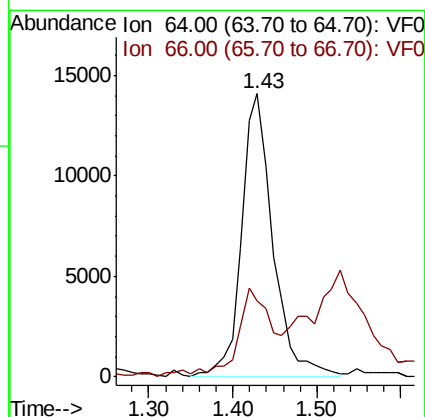
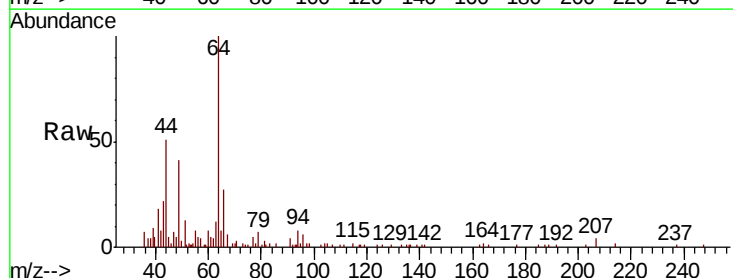
Acq: 20 Sep 2018 12:22

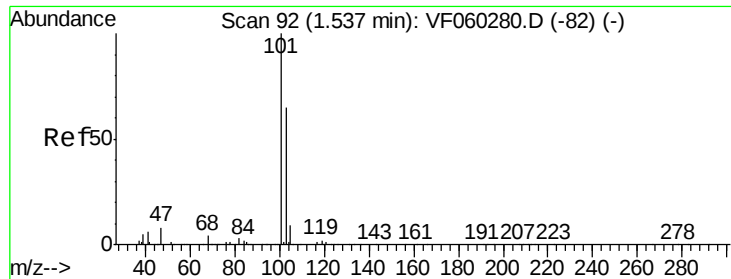
Tgt Ion: 64 Resp: 36660

Ion Ratio Lower Upper

64 100

66 27.0 26.2 39.2





#7

Trichlorofluoromethane

Concen: 25.358 ug/l

RT: 1.53 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion:101 Resp: 153475

Ion Ratio Lower Upper

101 100

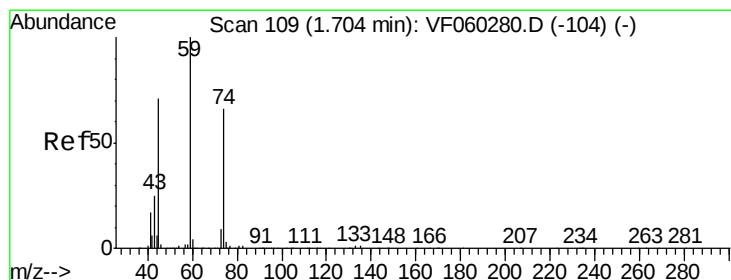
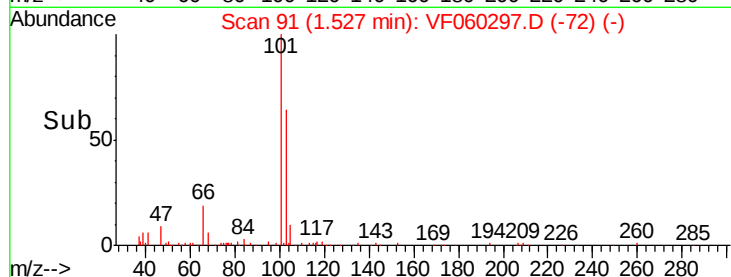
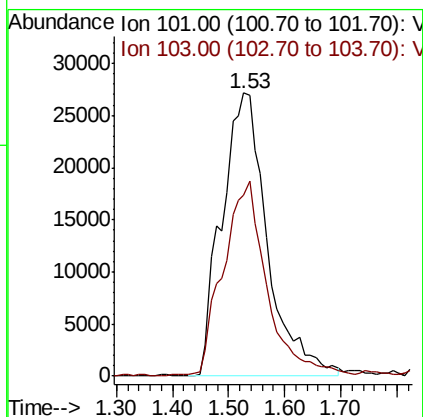
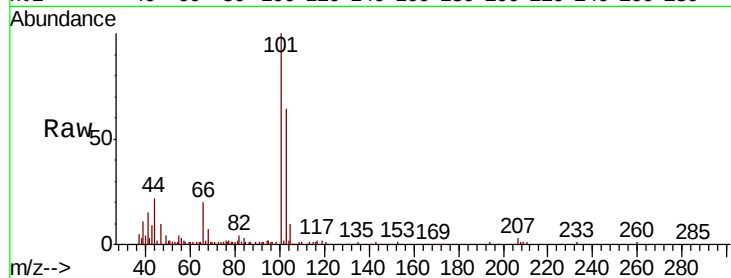
103 64.0 52.0 78.0

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#8

Diethyl Ether

Concen: 24.598 ug/l

RT: 1.69 min Scan# 108

Delta R.T. -0.01 min

Lab File: VF060297.D

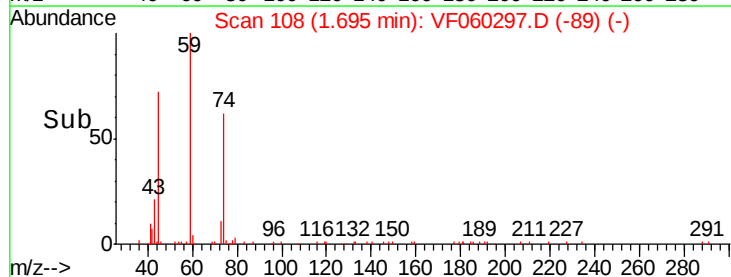
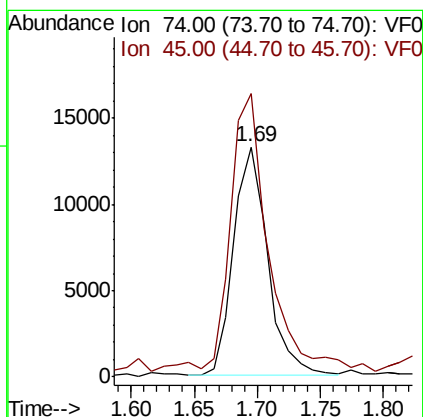
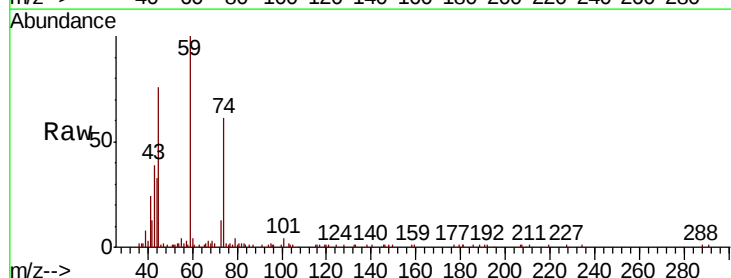
Acq: 20 Sep 2018 12:22

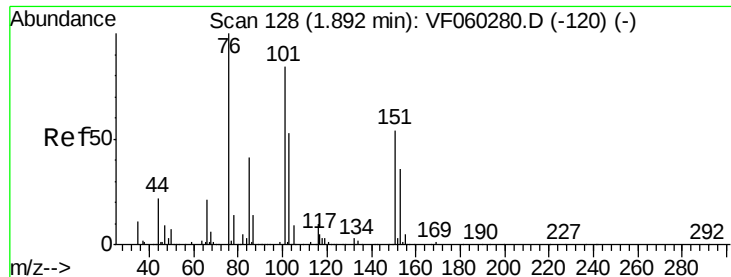
Tgt Ion: 74 Resp: 24769

Ion Ratio Lower Upper

74 100

45 123.2 53.9 161.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.150 ug/l

RT: 1.89 min Scan# 128

Delta R.T. 0.00 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

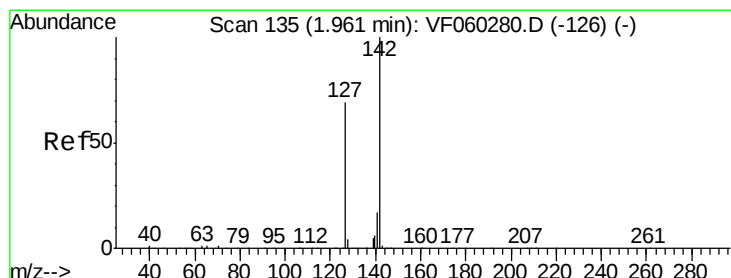
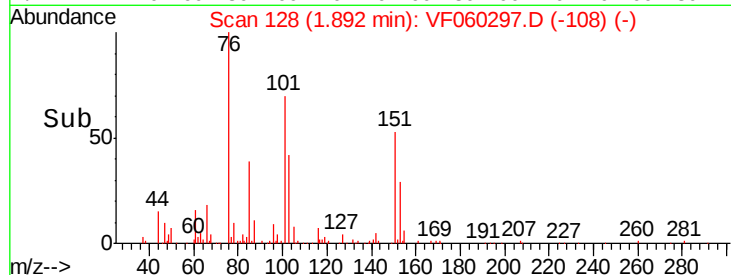
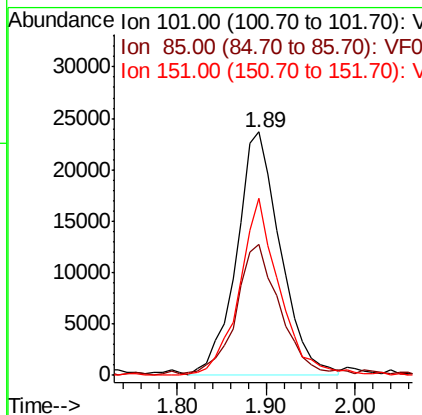
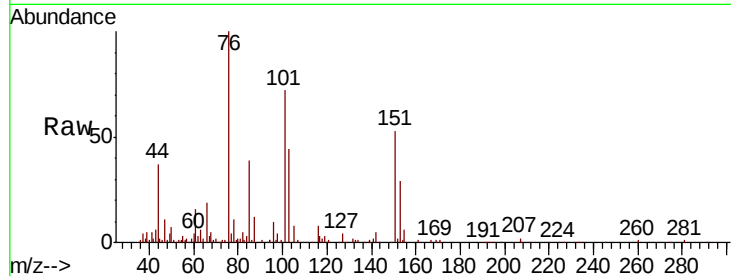
ClientSampleId :

VF0920SBS01

Tot Ion:	101	Resp:	80953
Ion Ratio	Lower	Upper	
101	100		
85	53.9	38.7	58.1
151	72.8	50.8	76.2

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#10

Methyl Iodide

Concen: 24.378 ug/l

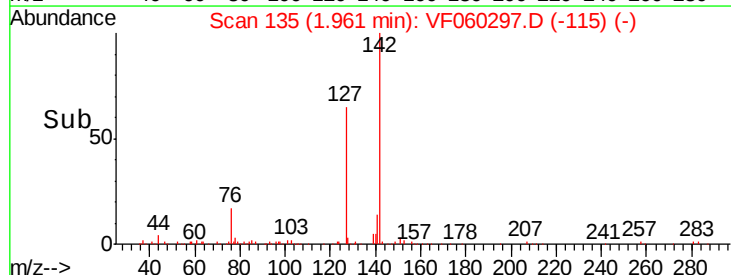
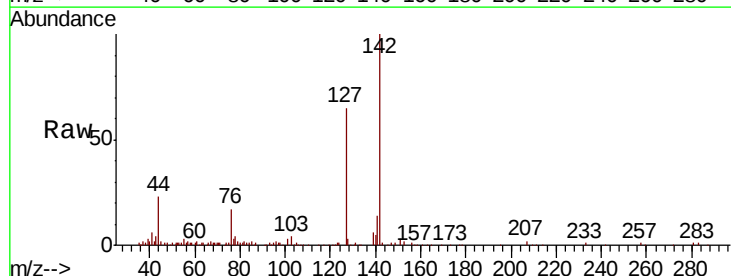
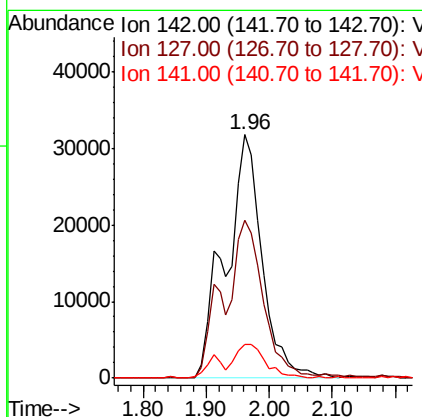
RT: 1.96 min Scan# 135

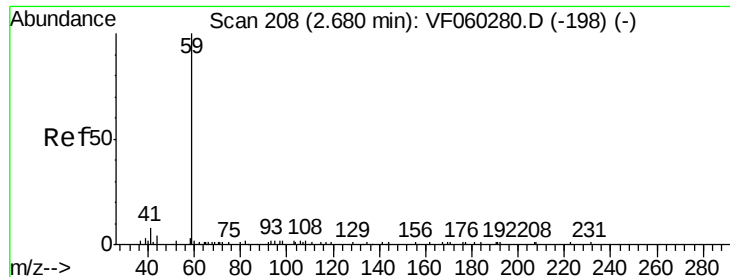
Delta R.T. 0.00 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	142	Resp:	126539
Ion Ratio	Lower	Upper	
142	100		
127	65.0	55.4	83.0
141	14.1	13.3	19.9





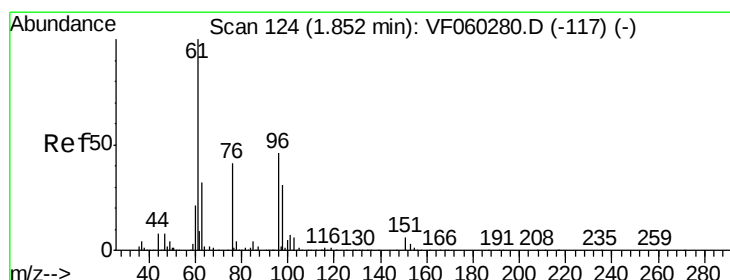
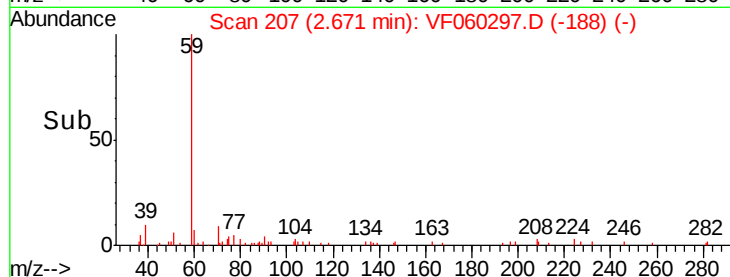
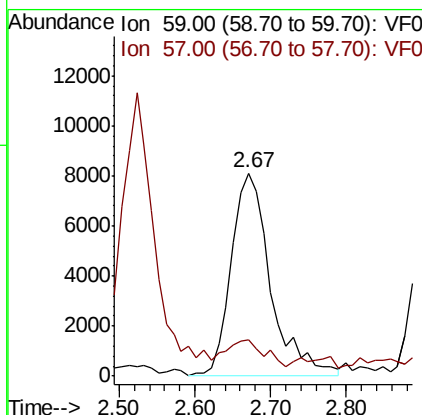
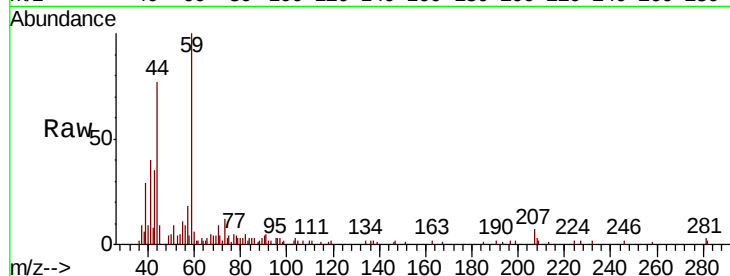
#11
Tert butyl alcohol
Concen: 161.560 ug/l
RT: 2.67 min Scan# 207
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion: 59 Resp: 29440
Ion Ratio Lower Upper
59 100
57 17.8 12.4 18.6

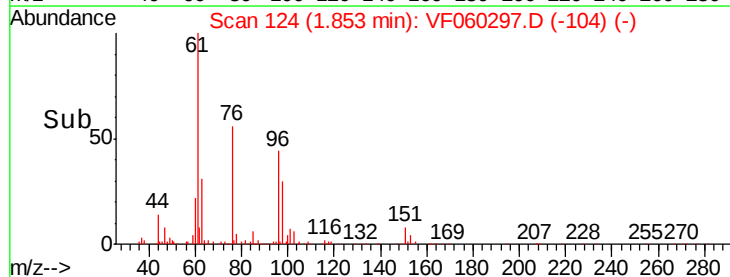
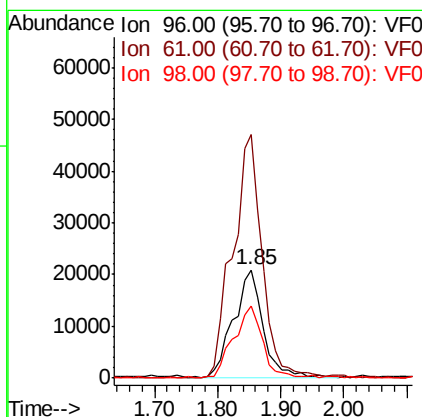
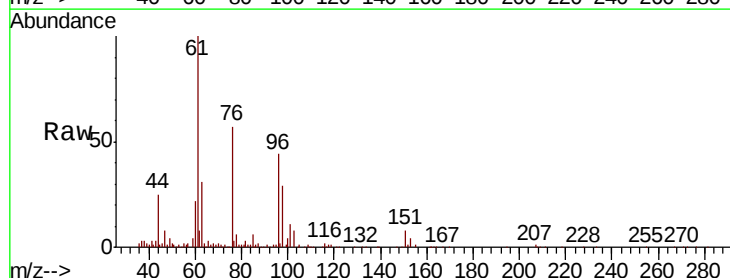
Manual Integrations
APPROVED

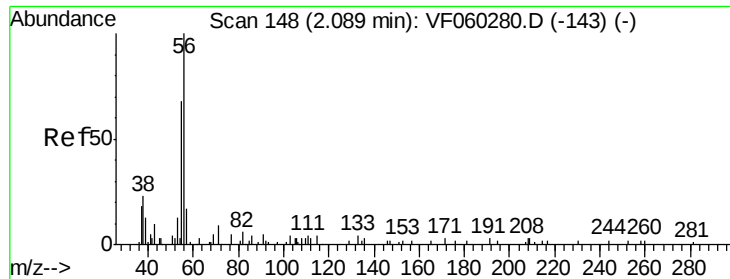
apatel
9/21/2018 11:04:55 AM



#12
1,1-Dichloroethene
Concen: 25.174 ug/l
RT: 1.85 min Scan# 124
Delta R.T. 0.00 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion: 96 Resp: 67012
Ion Ratio Lower Upper
96 100
61 224.9 172.2 258.2
98 66.2 54.1 81.1





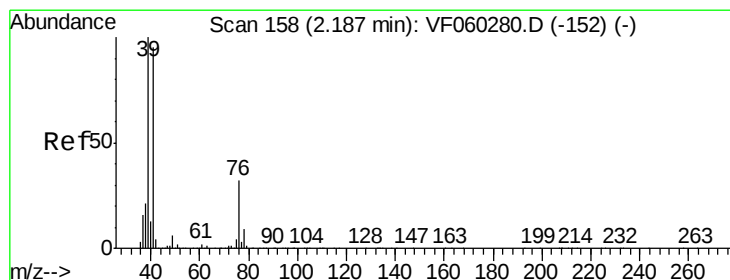
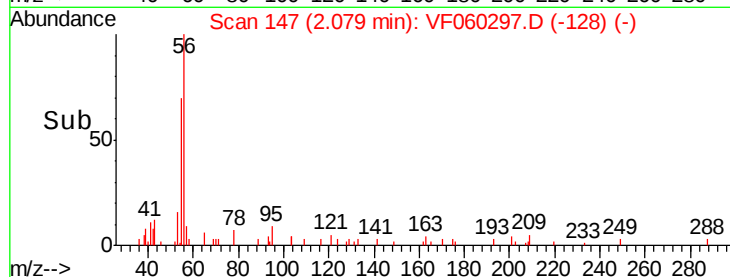
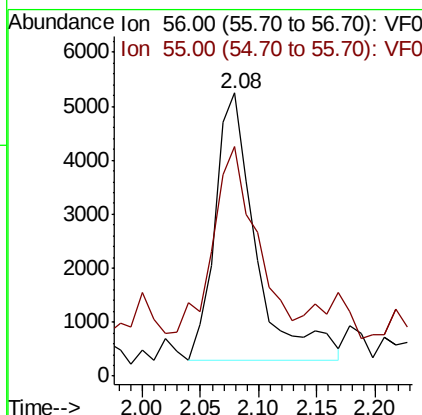
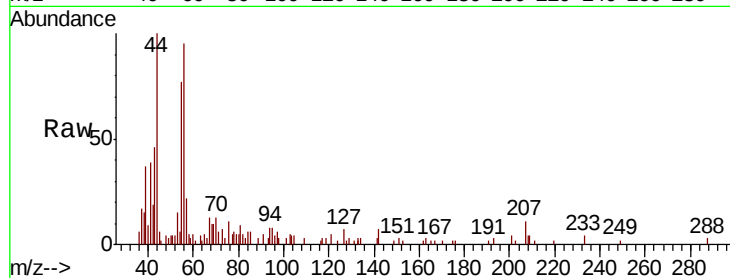
#13
Acrolein
Concen: 199.054 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	56	Resp	12063
Ion Ratio	100	Lower	Upper
55	80.9	69.9	104.9

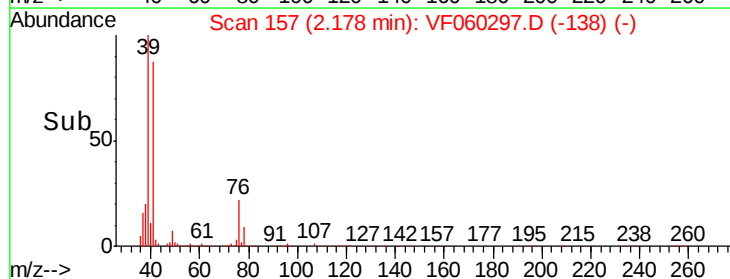
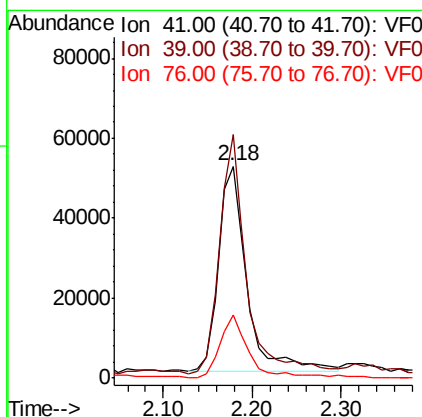
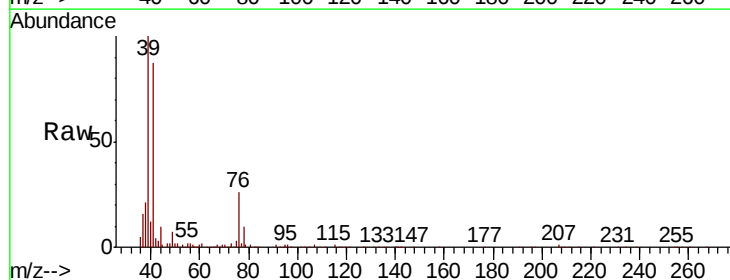
Manual Integrations
APPROVED

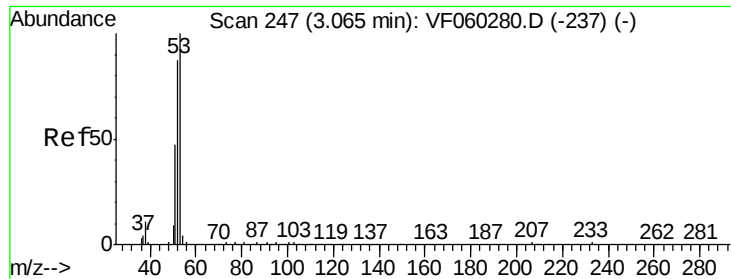
apatel
9/21/2018 11:04:55 AM



#14
Allyl chloride
Concen: 24.453 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	41	Resp	113591
Ion Ratio	100	Lower	Upper
39	115.0	84.8	127.2
76	30.0	27.4	41.2





#15

Acrylonitrile

Concen: 118.738 ug/l

RT: 3.06 min Scan# 246

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

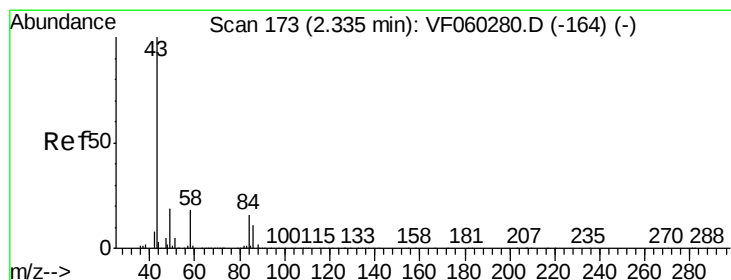
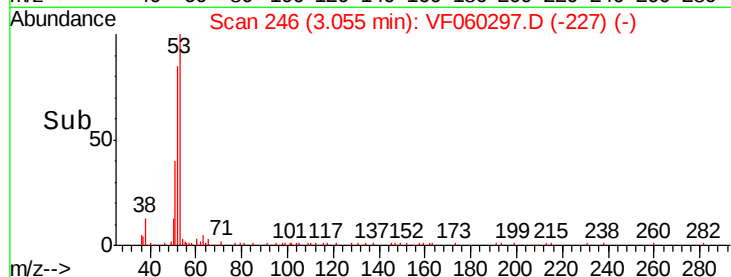
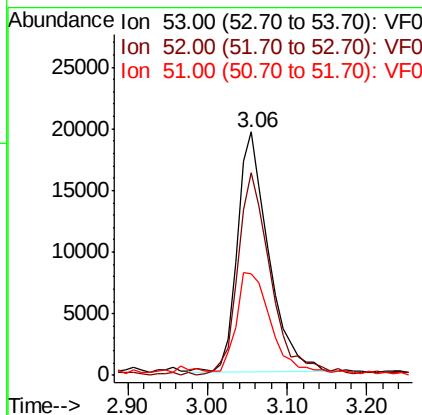
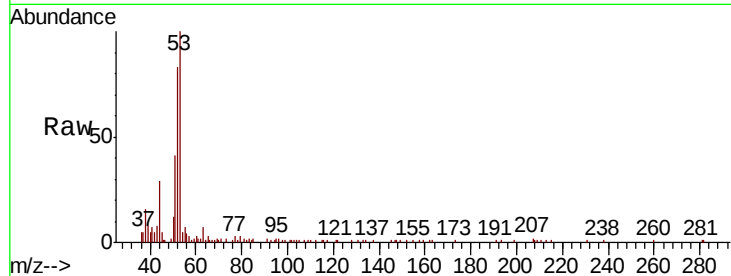
ClientSampleId :

VF0920SBS01

Tot Ion:	53	Resp:	52822
Ion	Ratio	Lower	Upper
53	100		
52	83.5	69.5	104.3
51	41.5	38.1	57.1

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#16

Acetone

Concen: 146.815 ug/l

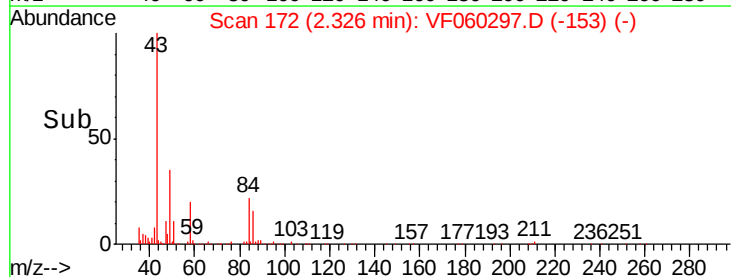
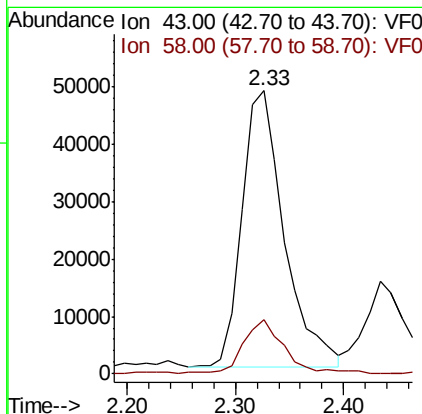
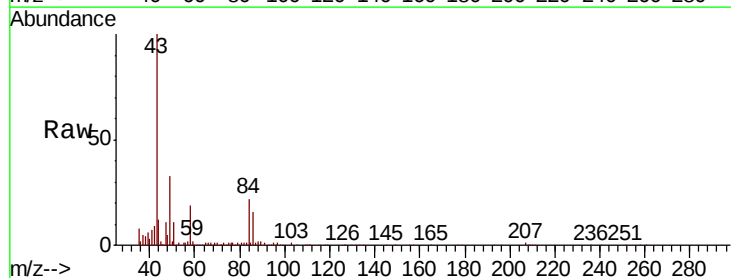
RT: 2.33 min Scan# 172

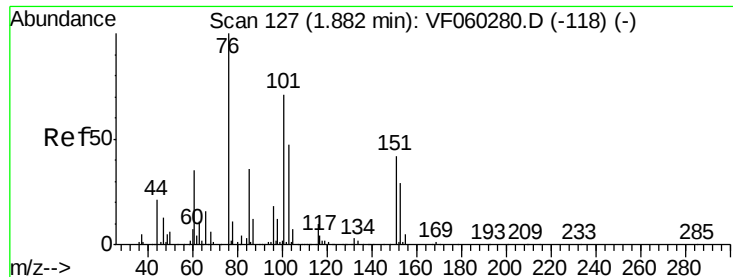
Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	43	Resp:	130233
Ion	Ratio	Lower	Upper
43	100		
58	19.1	14.5	21.7





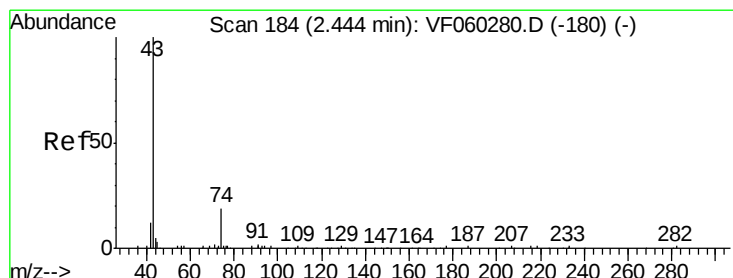
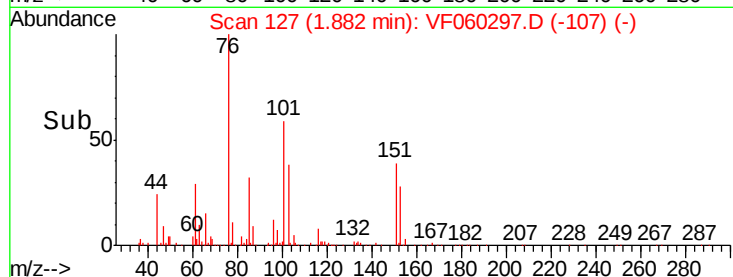
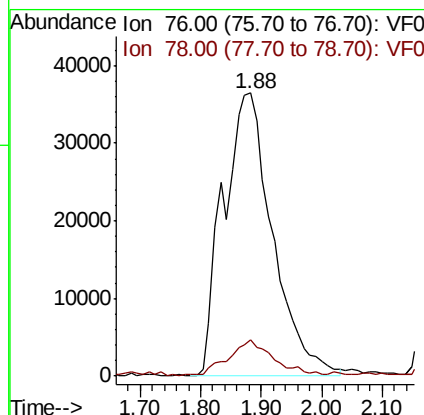
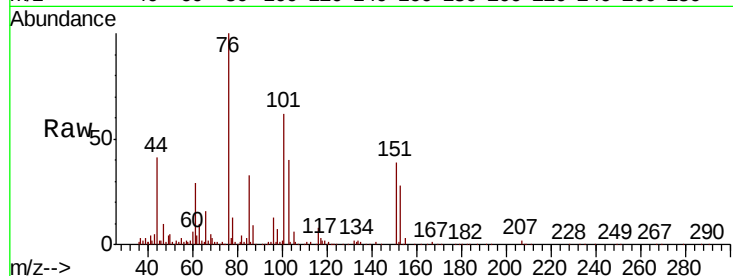
#17
Carbon Disulfide
Concen: 27.853 ug/l
RT: 1.88 min Scan# 127
Delta R.T. 0.00 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion: 76 Resp: 206737
Ion Ratio Lower Upper
76 100
78 12.7 9.4 14.0

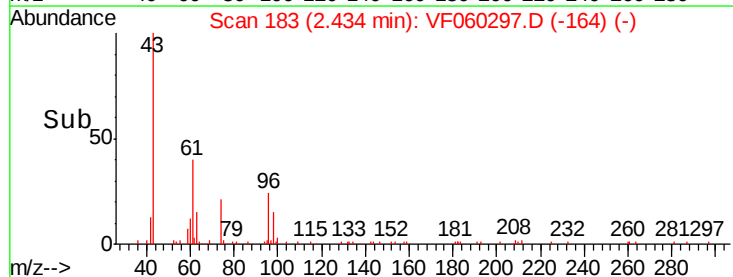
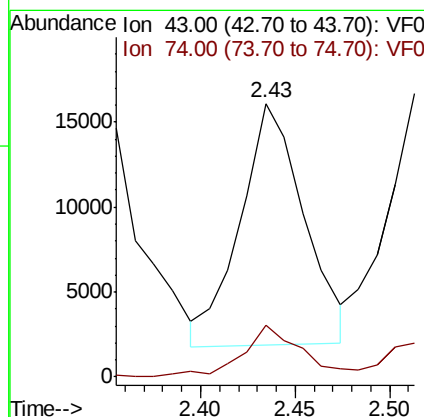
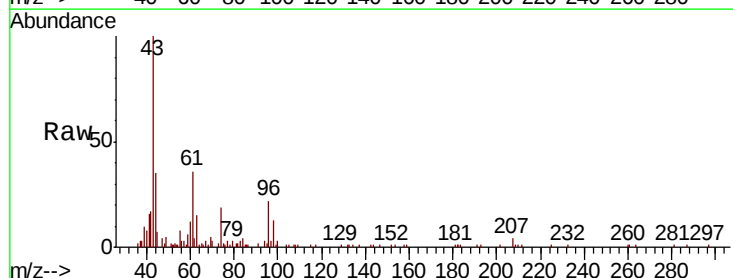
Manual Integrations
APPROVED

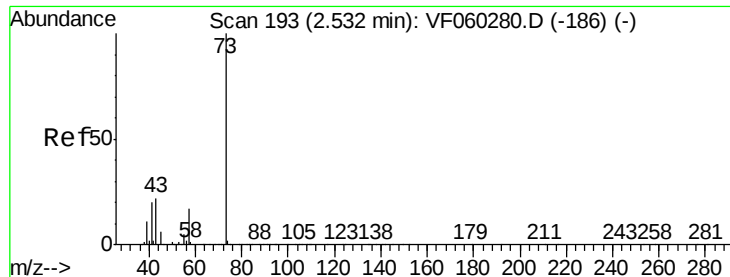
apatel
9/21/2018 11:04:55 AM



#18
Methyl Acetate
Concen: 22.521 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion: 43 Resp: 33281
Ion Ratio Lower Upper
43 100
74 19.0 12.7 19.1





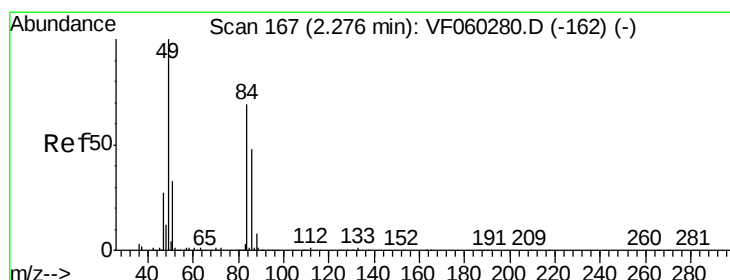
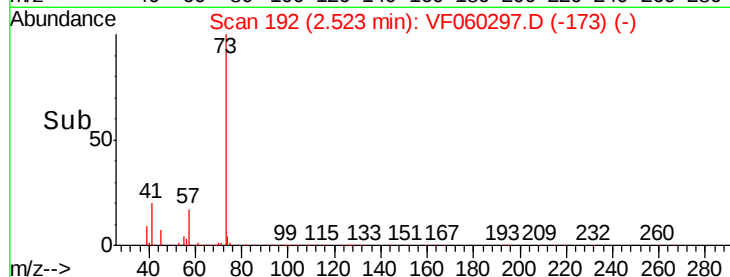
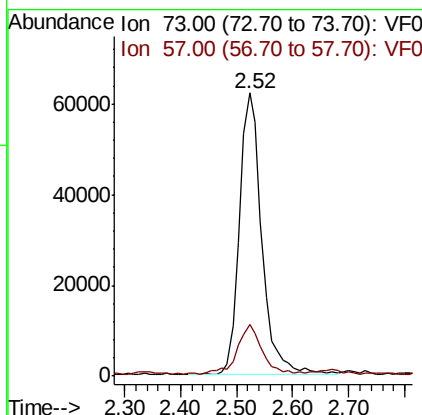
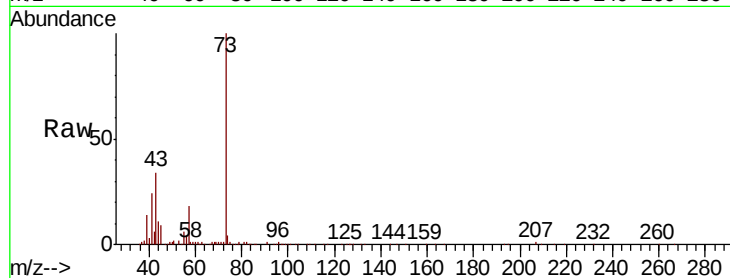
#19
Methyl tert-butyl Ether
Concen: 25.881 ug/l
RT: 2.52 min Scan# 192
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion: 73 Resp: 171752
Ion Ratio Lower Upper
73 100
57 18.1 14.5 21.7

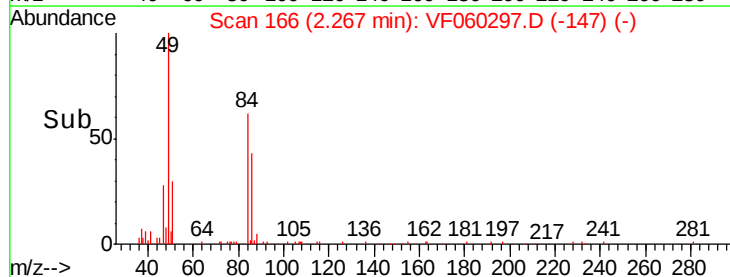
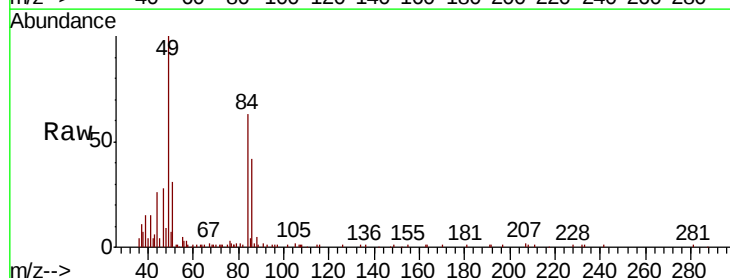
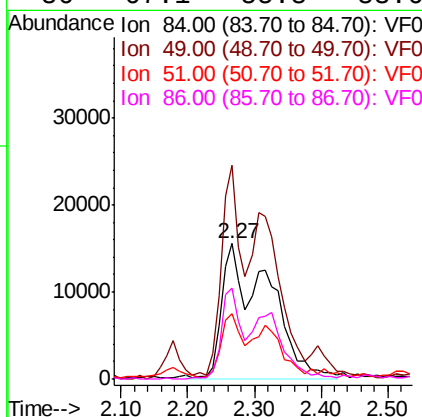
Manual Integrations
APPROVED

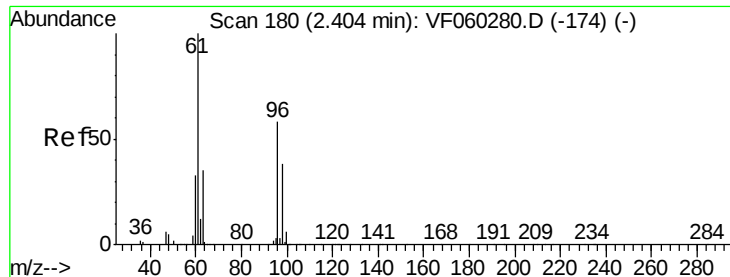
apatel
9/21/2018 11:04:55 AM



#20
Methylene Chloride
Concen: 28.876 ug/l m
RT: 2.27 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion: 84 Resp: 76707
Ion Ratio Lower Upper
84 100
49 157.9 118.3 177.5
51 48.5 38.7 58.1
86 67.1 55.8 83.6





#21

trans-1,2-Dichloroethene

Concen: 24.711 ug/l

RT: 2.40 min Scan# 180

Delta R.T. 0.00 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

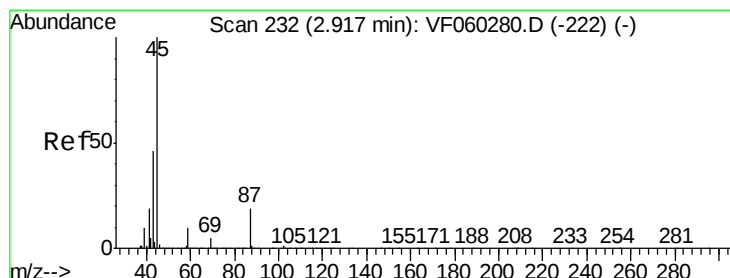
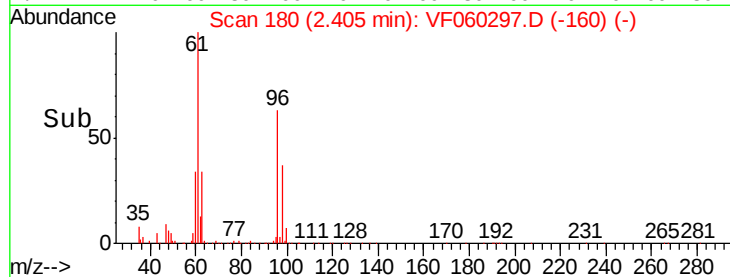
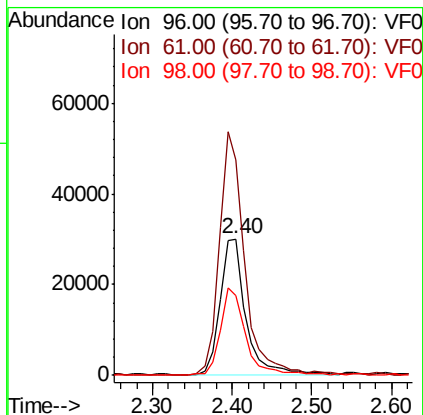
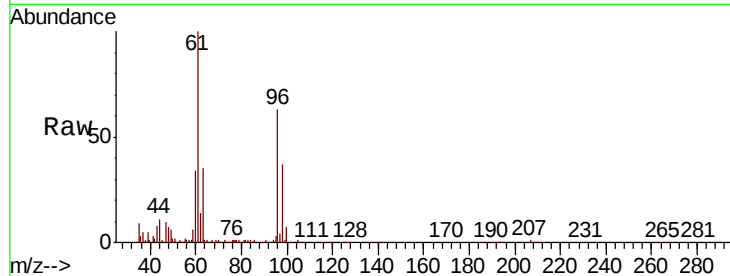
ClientSampleId :

VF0920SBS01

Tot Ion:	96	Resp:	67940
Ion	Ratio	Lower	Upper
96	100		
61	158.0	136.4	204.6
98	58.4	51.8	77.6

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#22

Diisopropyl ether

Concen: 24.396 ug/l

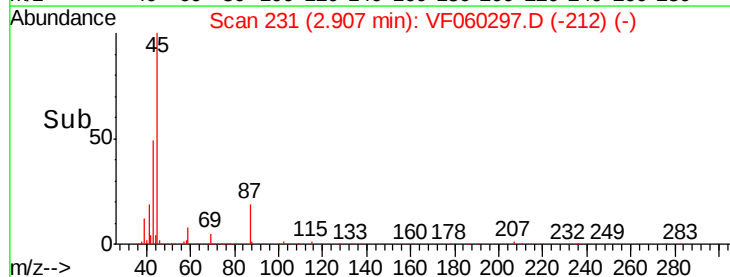
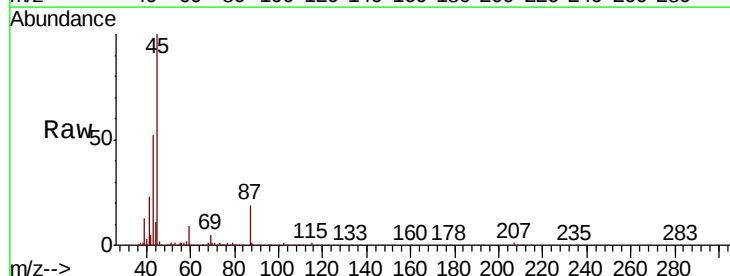
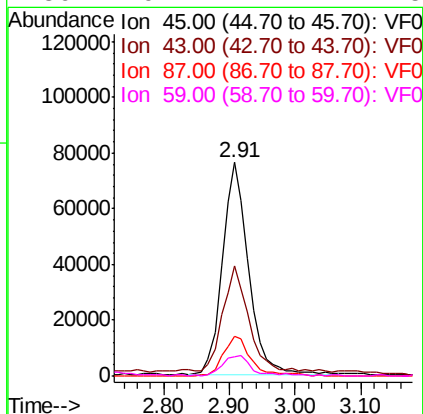
RT: 2.91 min Scan# 231

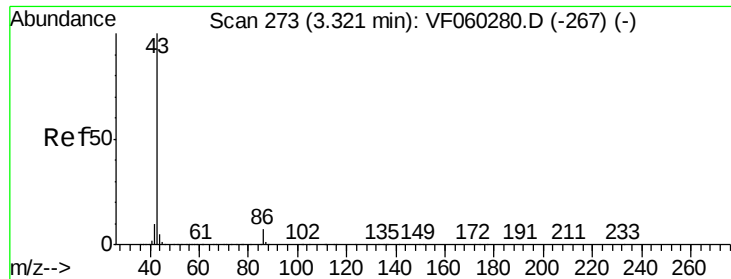
Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	45	Resp:	213818
Ion	Ratio	Lower	Upper
45	100		
43	51.8	38.2	57.2
87	18.7	15.5	23.3
59	9.2	7.7	11.5





#23

Vinyl Acetate

Concen: 119.577 ug/l

RT: 3.31 min Scan# 272

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 43 Resp: 411616

Ion Ratio Lower Upper

43 100

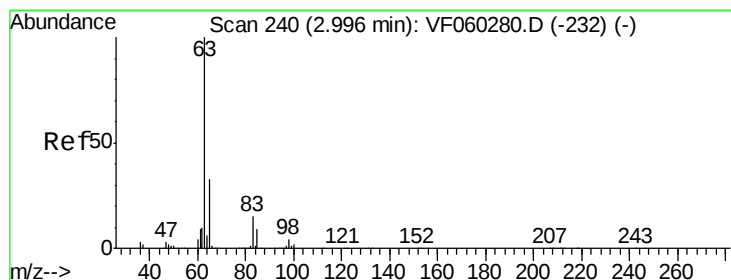
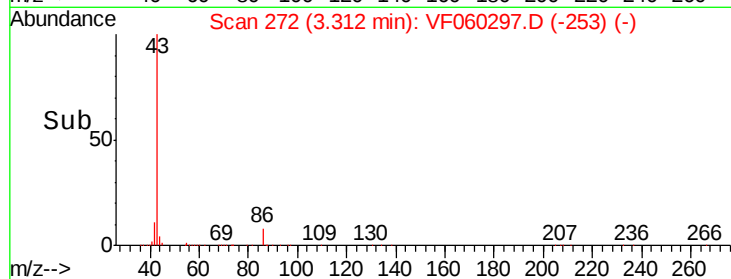
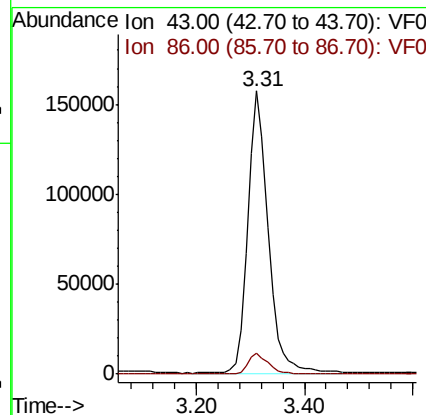
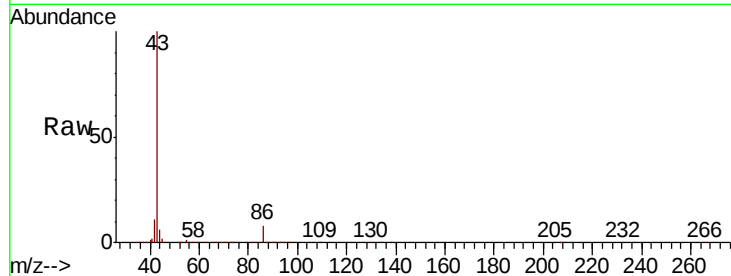
86 7.6 5.9 8.9

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#24

1,1-Dichloroethane

Concen: 23.494 ug/l

RT: 2.99 min Scan# 239

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

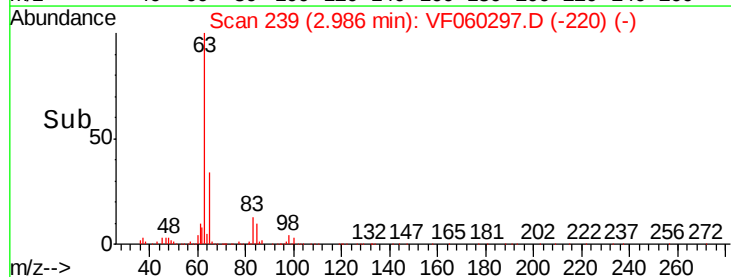
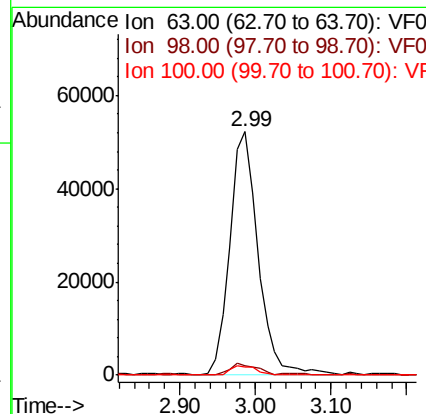
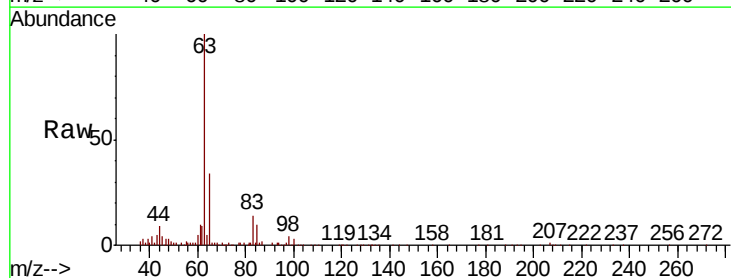
Tgt Ion: 63 Resp: 133543

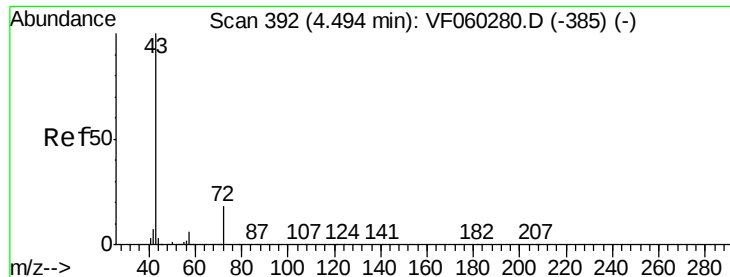
Ion Ratio Lower Upper

63 100

98 3.9 2.1 6.5

100 3.5 1.1 3.3#





#25

2-Butanone

Concen: 122.022 ug/l

RT: 4.48 min Scan# 391

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 43 Resp: 145691

Ion Ratio Lower Upper

43 100

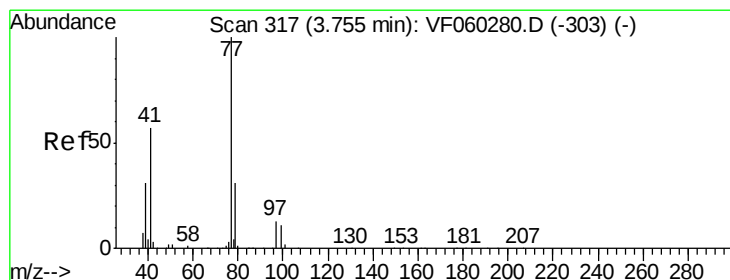
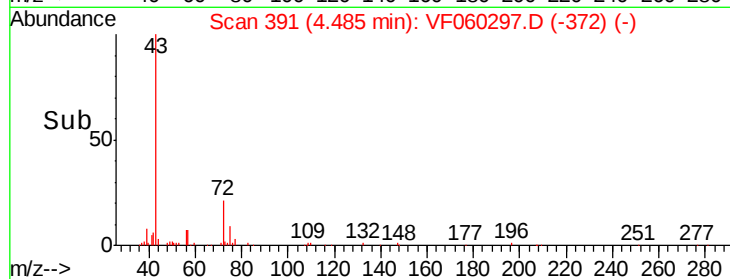
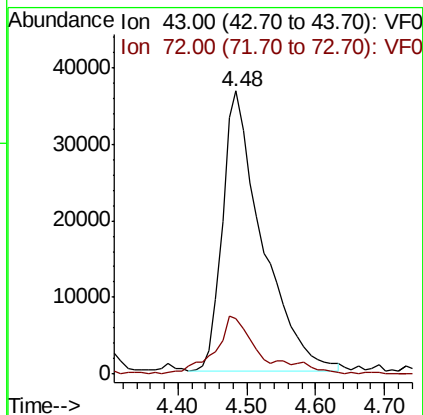
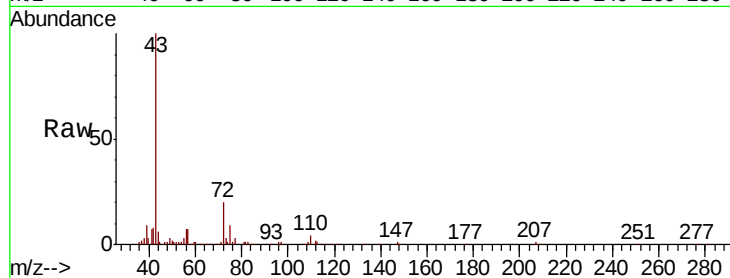
72 19.7 16.2 24.2

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#26

2,2-Dichloropropane

Concen: 23.033 ug/l

RT: 3.74 min Scan# 315

Delta R.T. -0.02 min

Lab File: VF060297.D

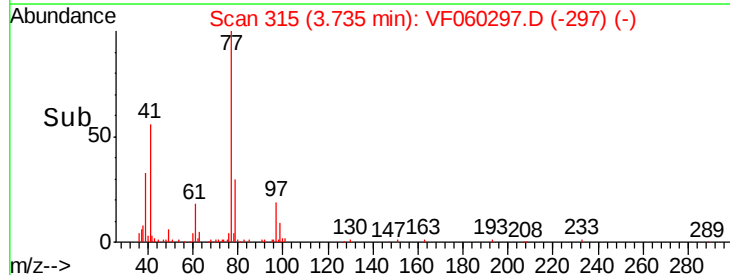
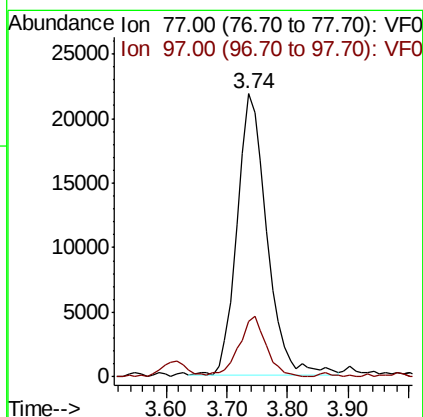
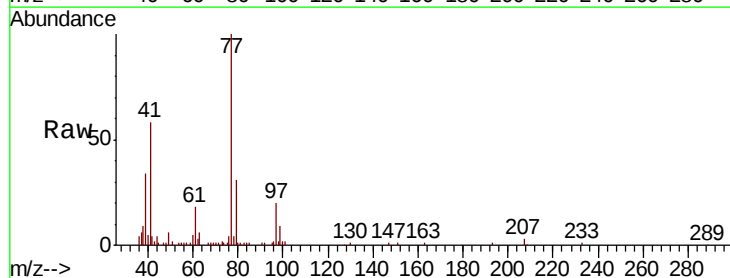
Acq: 20 Sep 2018 12:22

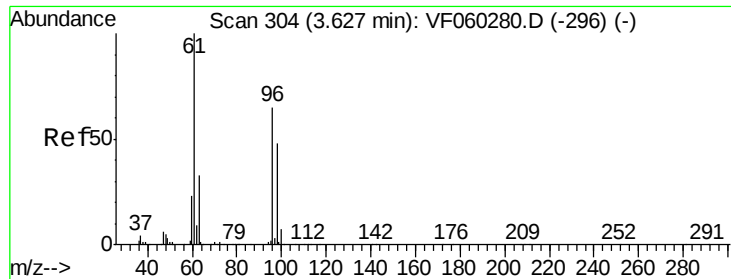
Tgt Ion: 77 Resp: 74702

Ion Ratio Lower Upper

77 100

97 19.5 9.3 27.9





#27

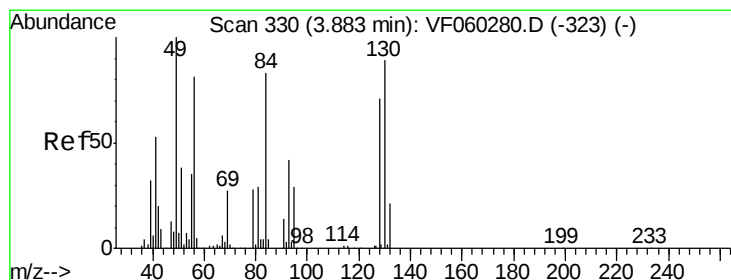
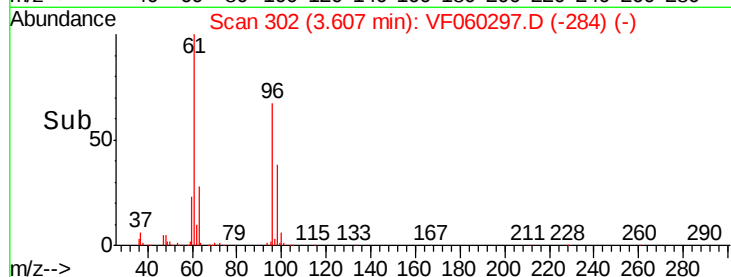
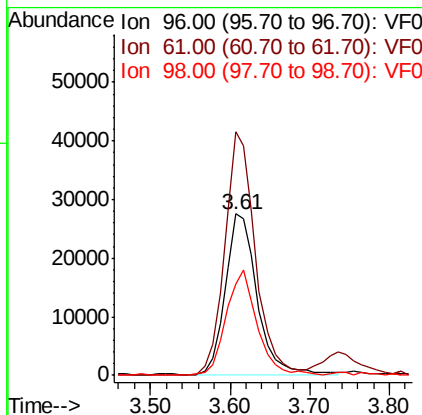
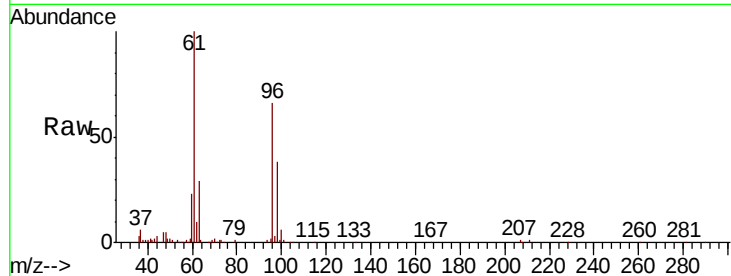
cis-1,2-Dichloroethene
Concen: 21.597 ug/l
RT: 3.61 min Scan# 302
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.6	0.0	304.8
98	56.6	0.0	146.4

Manual Integrations
APPROVED

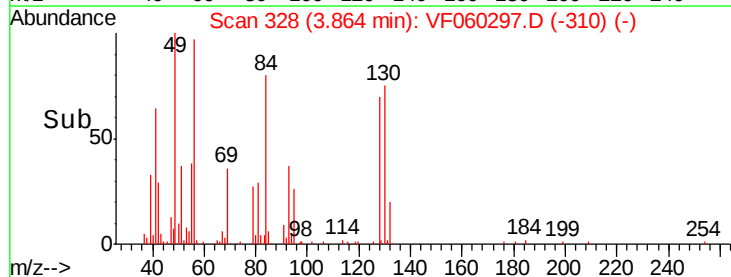
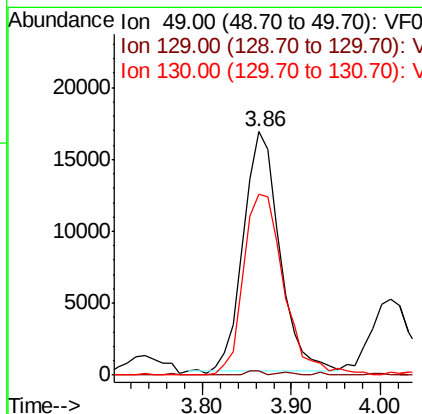
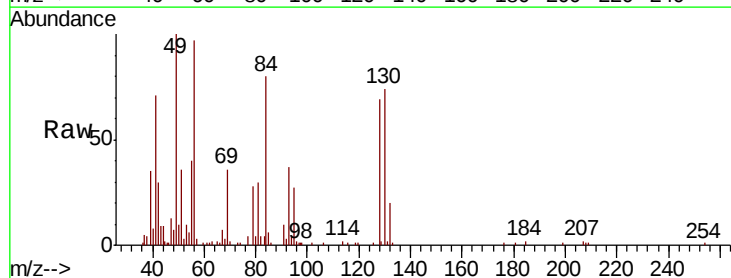
apatel
9/21/2018 11:04:55 AM

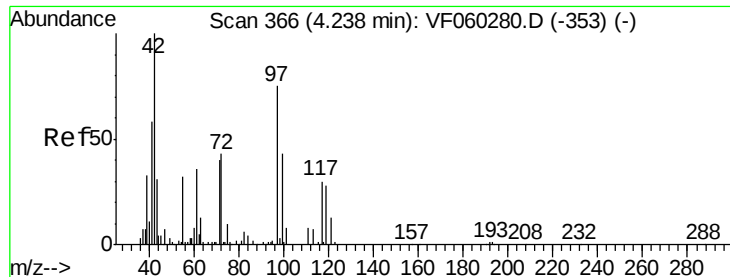


#28

Bromochloromethane
Concen: 20.913 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.2
130	74.2	70.3	105.5





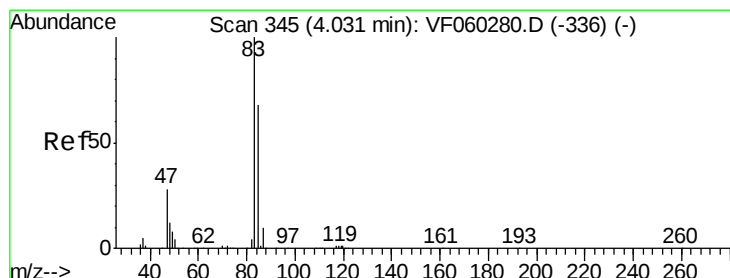
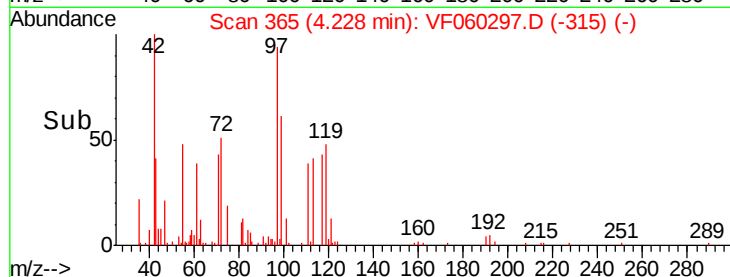
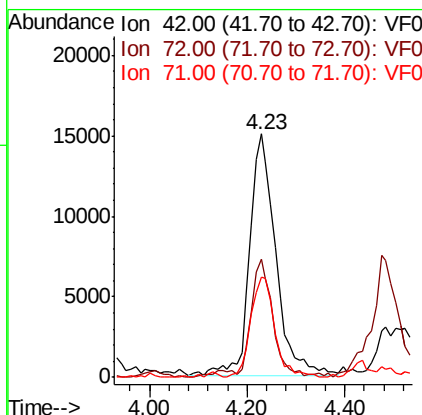
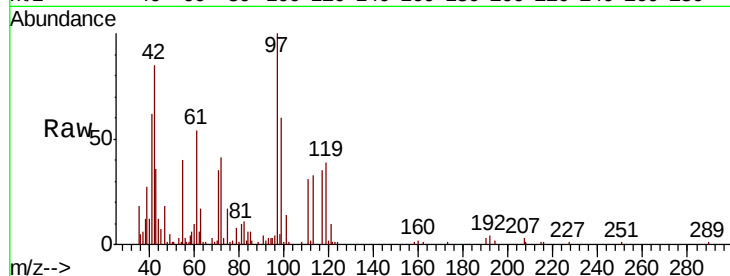
#29
Tetrahydrofuran
Concen: 127.148 ug/l
RT: 4.23 min Scan# 365
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.6	49.0
71	38.2	32.7	49.1

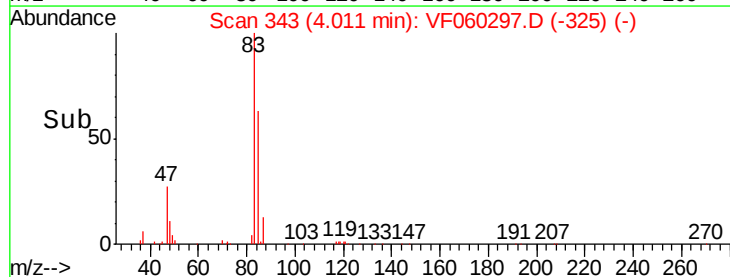
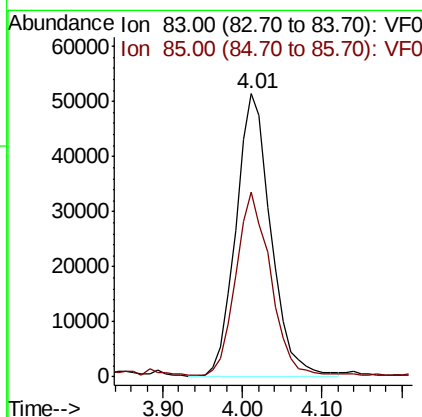
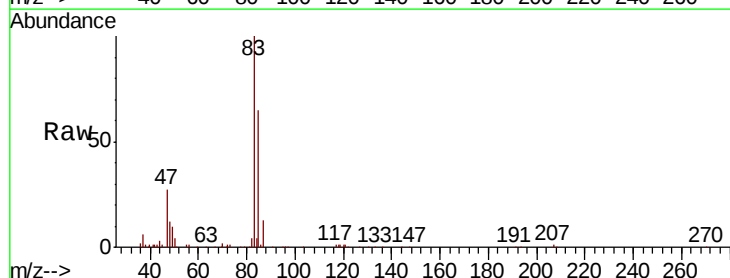
Manual Integrations
APPROVED

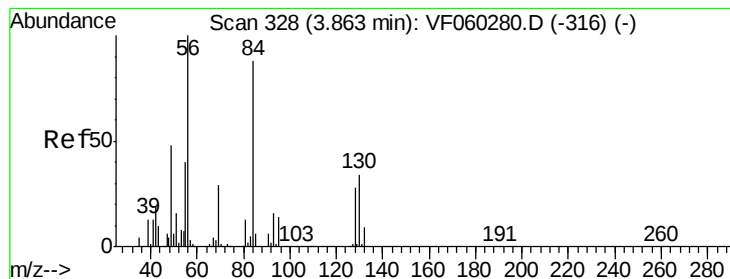
apatel
9/21/2018 11:04:55 AM



#30
Chloroform
Concen: 22.903 ug/l
RT: 4.01 min Scan# 343
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	54.9	82.3





#31

Cyclohexane

Concen: 22.058 ug/l

RT: 3.83 min Scan# 325

Delta R.T. -0.03 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

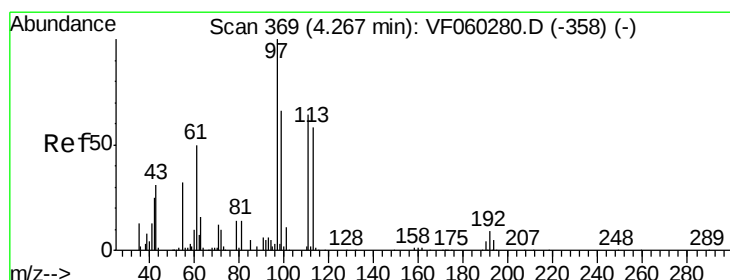
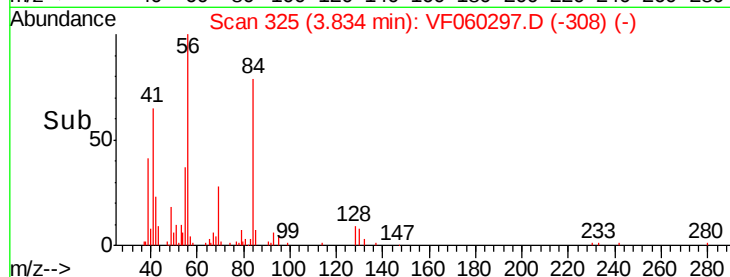
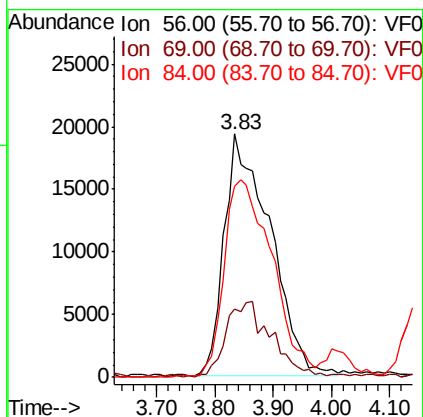
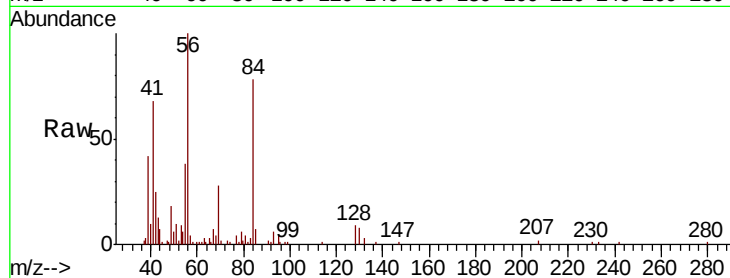
ClientSampleId :

VF0920SBS01

Tot Ion:	56	Resp:	105904
Ion	Ratio	Lower	Upper
56	100		
69	28.0	23.8	35.6
84	78.4	70.2	105.4

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#32

1,1,1-Trichloroethane

Concen: 24.239 ug/l

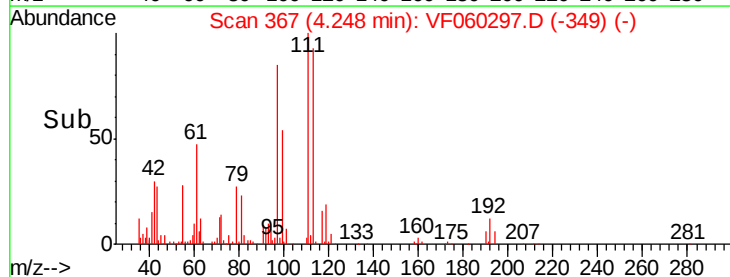
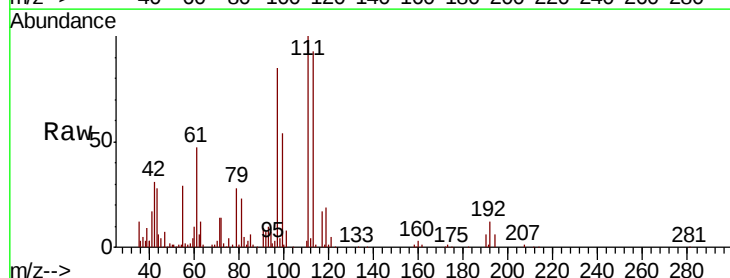
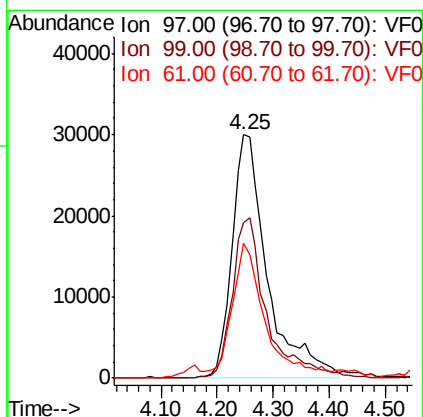
RT: 4.25 min Scan# 367

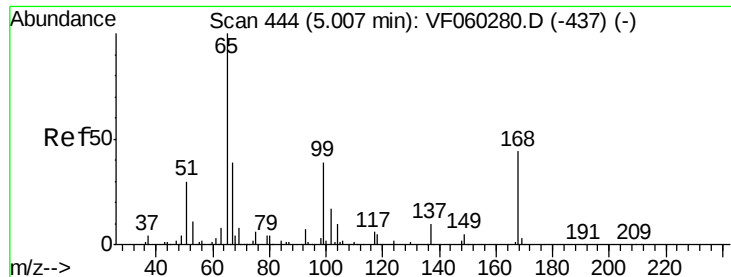
Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	97	Resp:	131172
Ion	Ratio	Lower	Upper
97	100		
99	63.8	53.0	79.4
61	55.6	40.6	61.0





#33

1,2-Dichloroethane-d4

Concen: 52.377 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 65 Resp: 164979

Ion Ratio Lower Upper

65 100

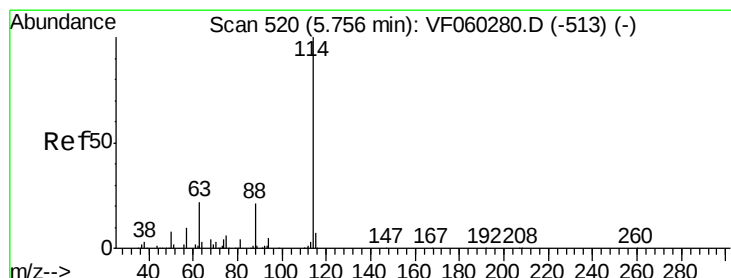
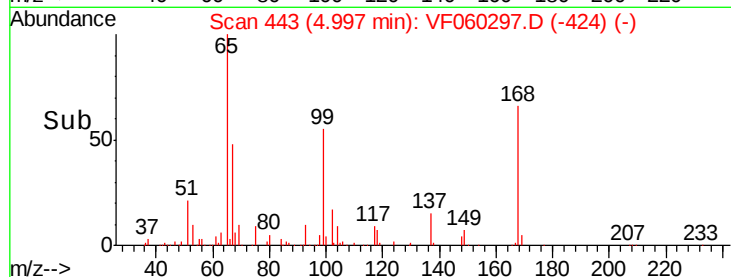
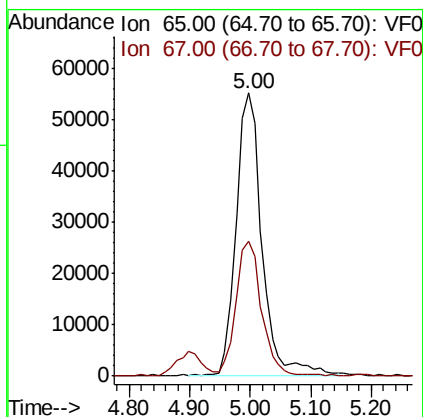
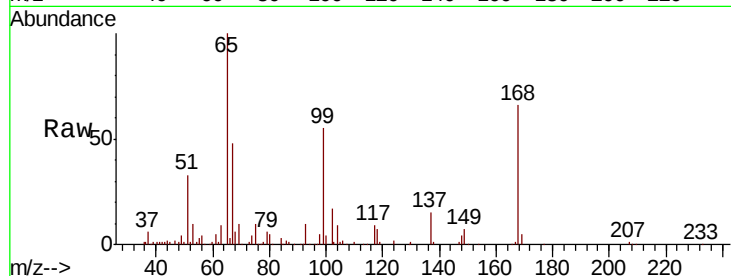
67 47.8 0.0 94.4

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

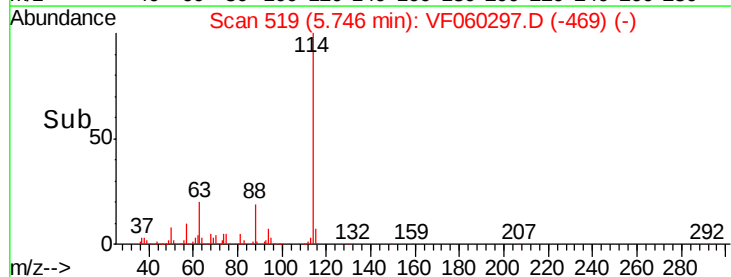
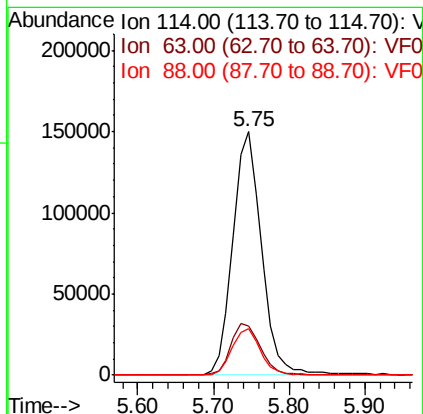
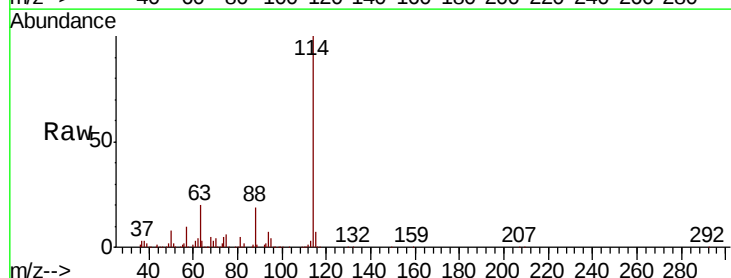
Tgt Ion:114 Resp: 392068

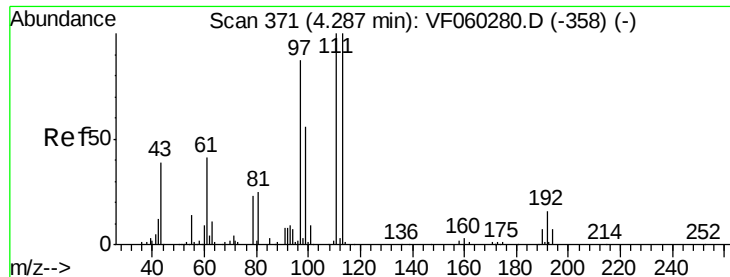
Ion Ratio Lower Upper

114 100

63 20.2 0.0 43.8

88 19.2 0.0 41.2





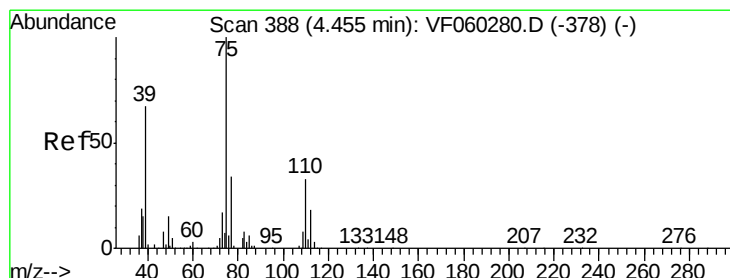
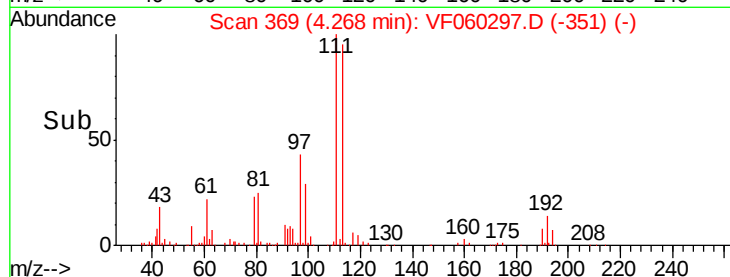
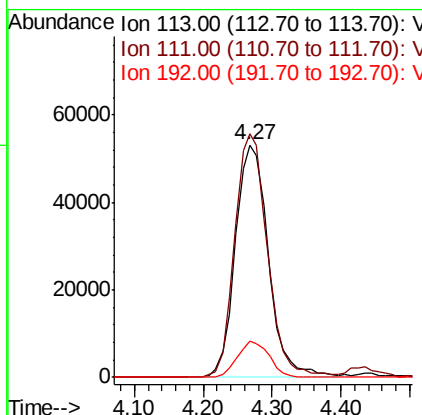
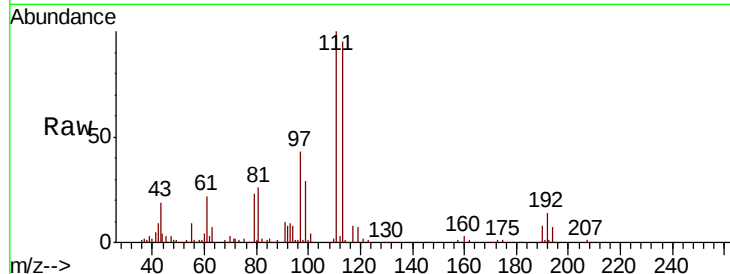
#35
 Dibromofluoromethane
 Concen: 50.701 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.02 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	177201		
111	104.8	79.6	119.4	
192	15.7	13.0	19.6	

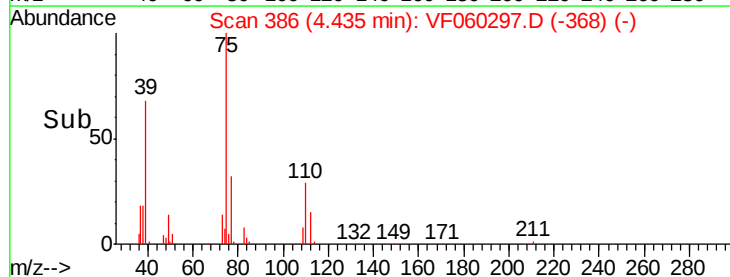
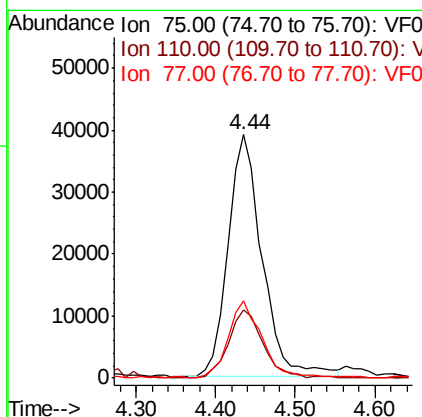
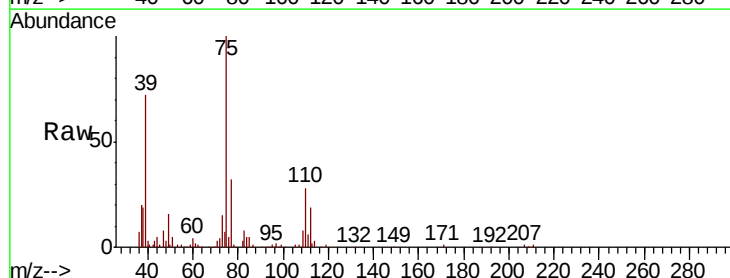
Manual Integrations
 APPROVED

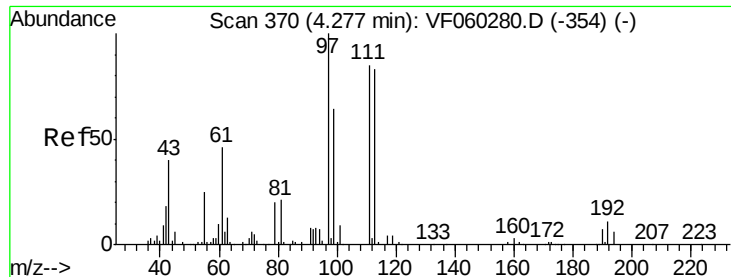
apatel
 9/21/2018 11:04:55 AM



#36
 1,1-Dichloropropene
 Concen: 23.823 ug/l
 RT: 4.44 min Scan# 386
 Delta R.T. -0.02 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	116507		
110	28.0	16.4	49.2	
77	31.7	27.3	40.9	





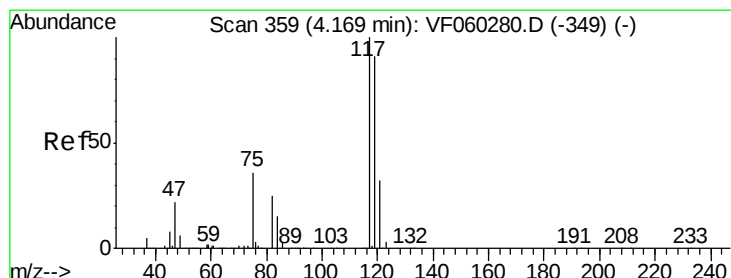
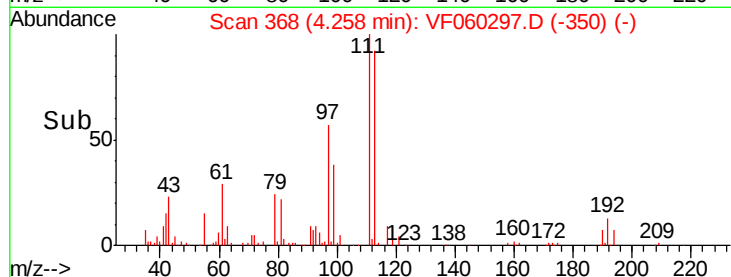
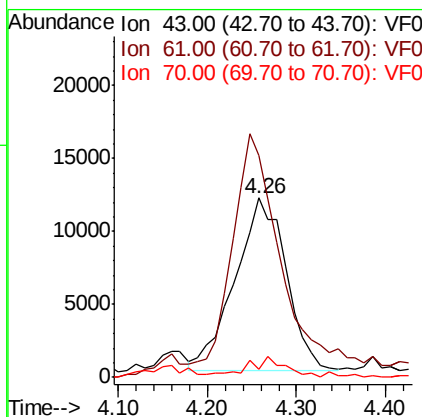
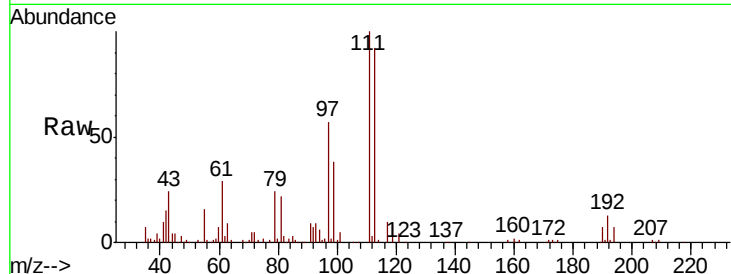
#37
Ethyl Acetate
Concen: 22.956 ug/l
RT: 4.26 min Scan# 368
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	123.9	91.1	136.7			
70	4.8	6.9	10.3			

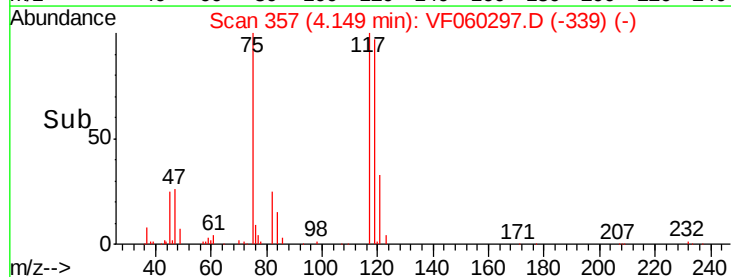
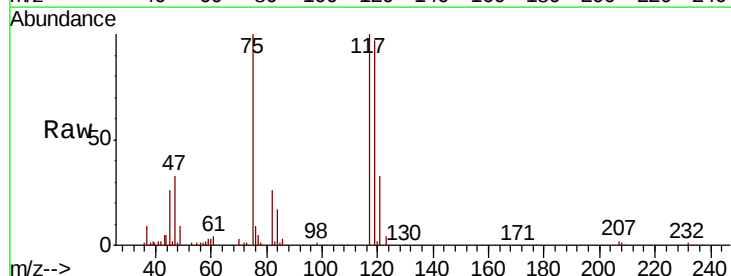
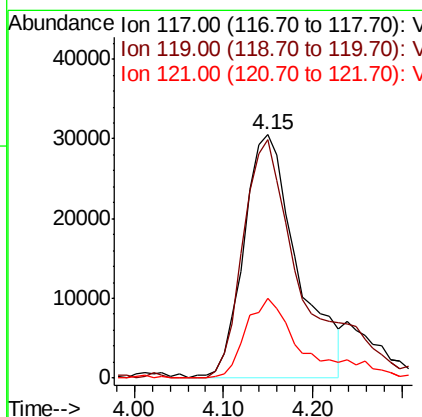
Manual Integrations
APPROVED

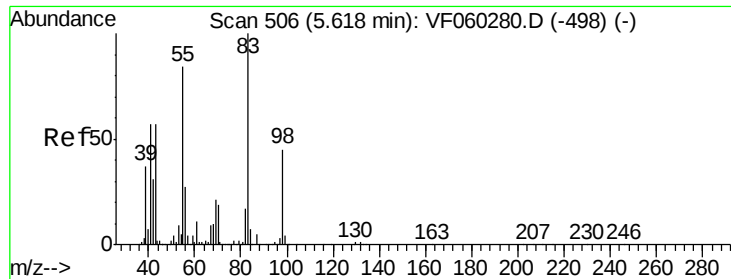
apatel
9/21/2018 11:04:55 AM



#38
Carbon Tetrachloride
Concen: 24.170 ug/l m
RT: 4.15 min Scan# 357
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	97.8	73.0	109.6			
121	32.7	25.4	38.2			





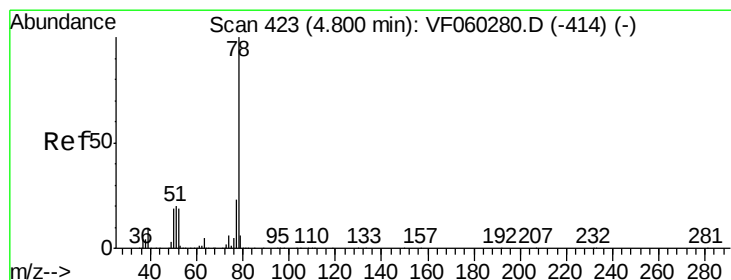
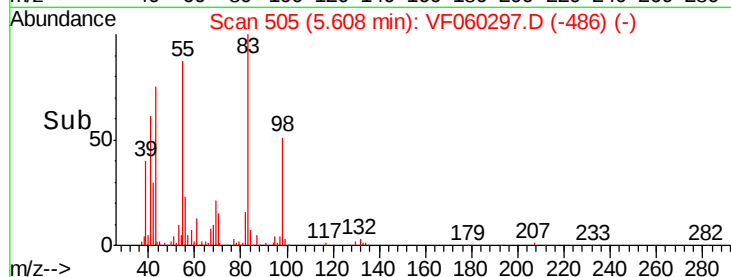
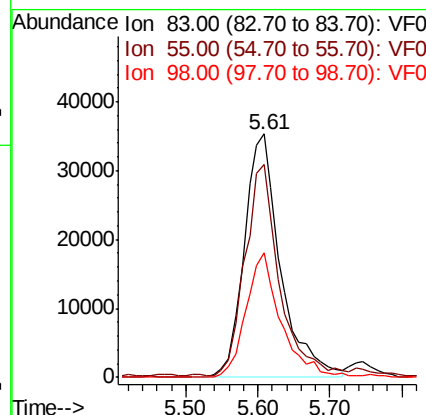
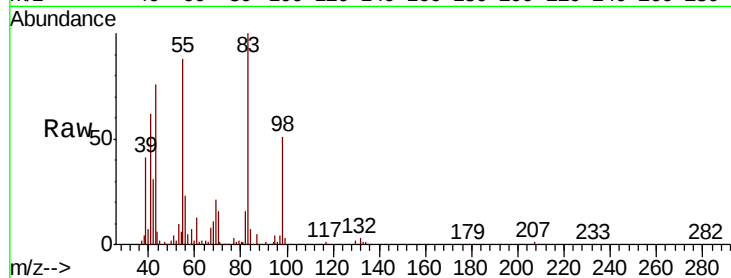
#39
Methvlcvclohexane
Concen: 23.339 ug/l
RT: 5.61 min Scan# 505
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.7	67.3	100.9
98	51.0	36.1	54.1

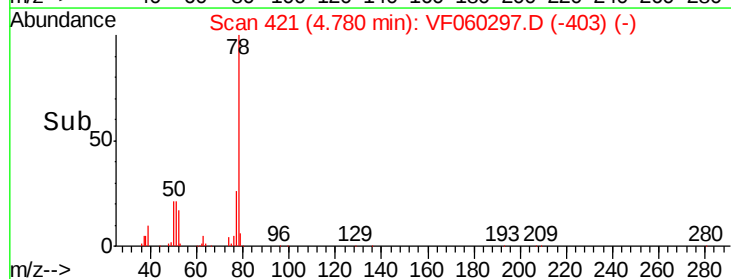
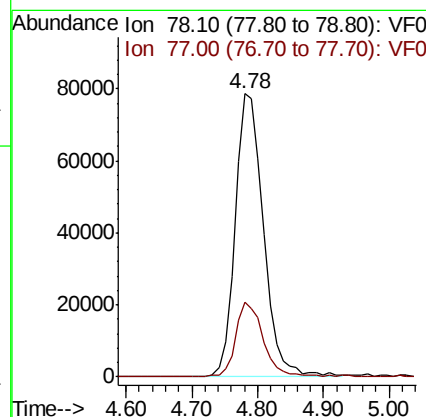
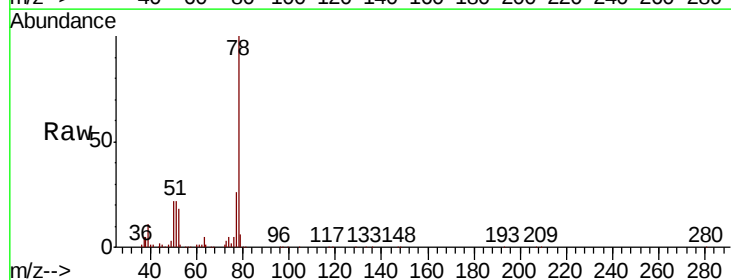
Manual Integrations
APPROVED

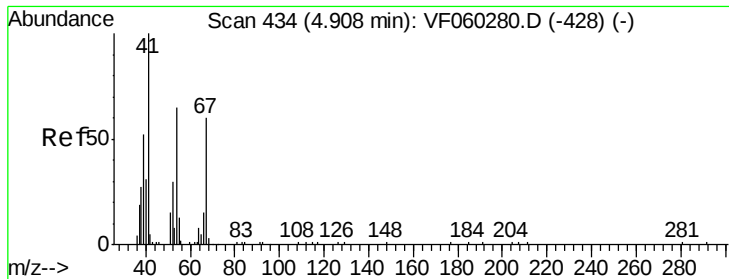
apatel
9/21/2018 11:04:55 AM



#40
Benzene
Concen: 21.428 ug/l
RT: 4.78 min Scan# 421
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.4	27.6





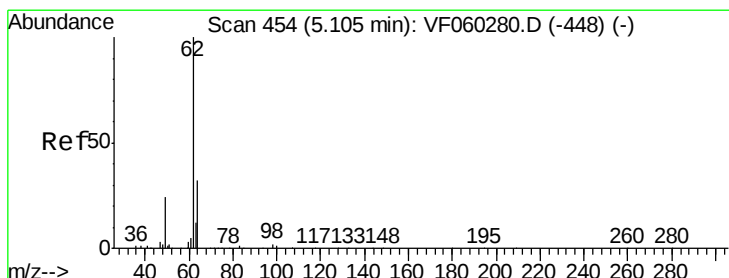
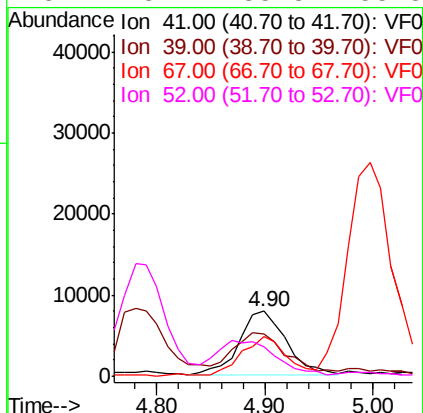
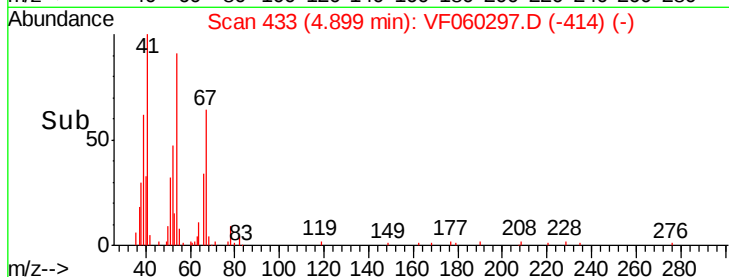
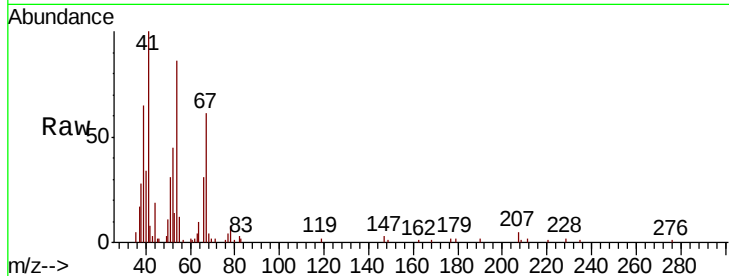
#41
Methacrylonitrile
Concen: 20.939 ug/l
RT: 4.90 min Scan# 433
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	64.5	49.1	73.7	
67	60.5	48.2	72.4	
52	45.4	35.8	53.8	

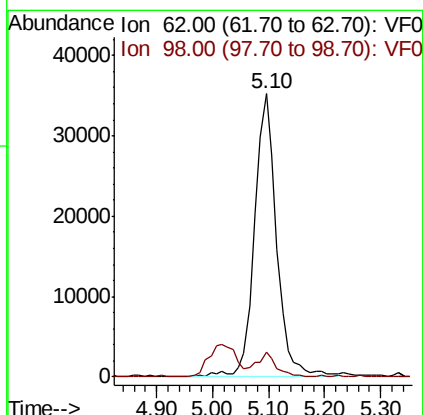
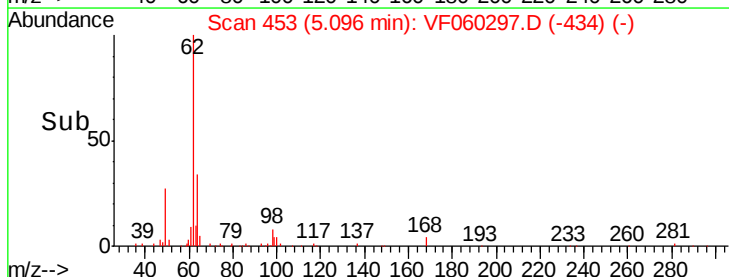
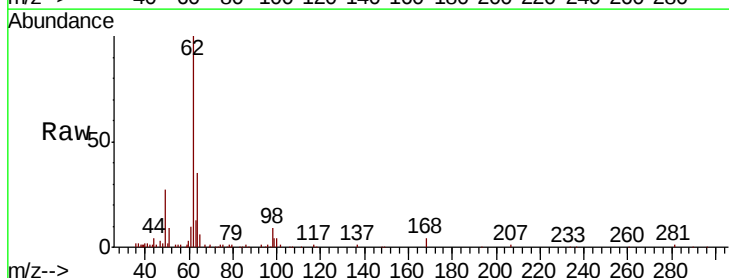
Manual Integrations
APPROVED

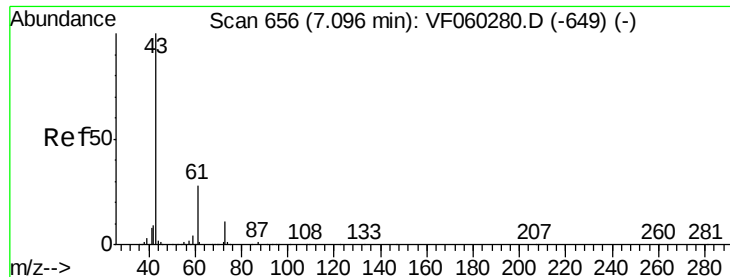
apatel
9/21/2018 11:04:55 AM



#42
1,2-Dichloroethane
Concen: 23.622 ug/l
RT: 5.10 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.6	0.0	14.4	





#43

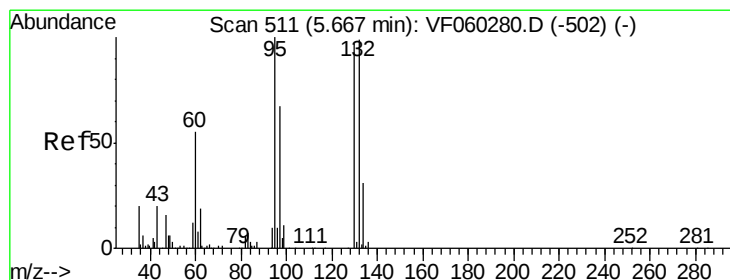
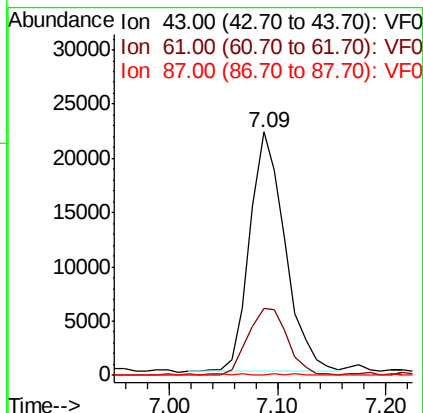
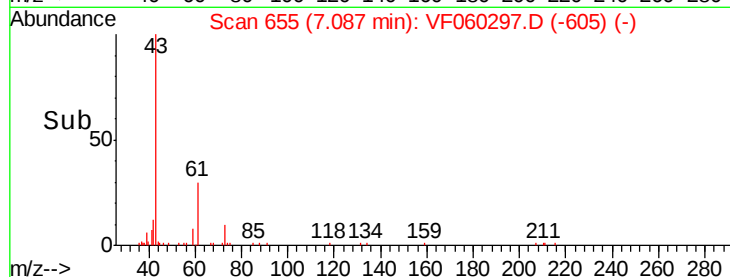
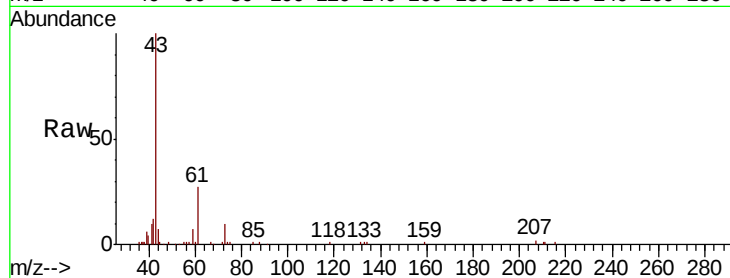
Isopropyl Acetate
 Concen: 20.362 ug/l
 RT: 7.09 min Scan# 655
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0920SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.4	22.4	33.6
87	0.0	0.6	0.8#

Manual Integrations
 APPROVED

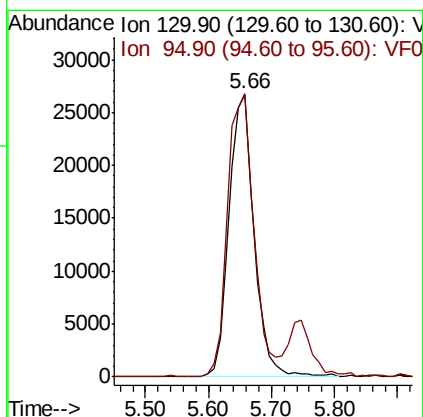
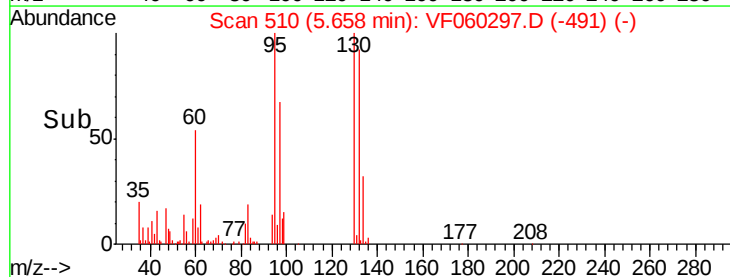
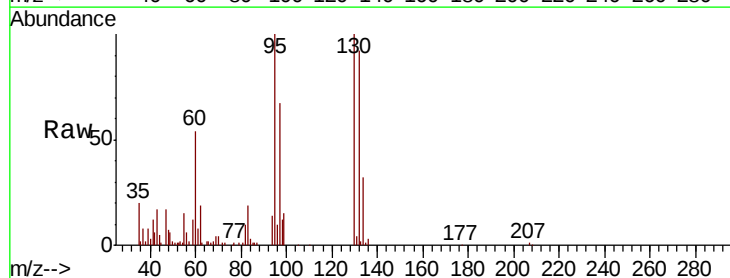
apatel
 9/21/2018 11:04:55 AM

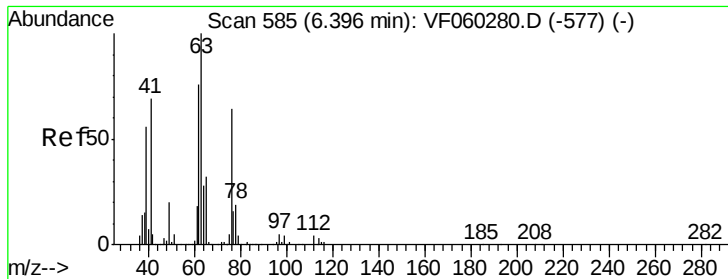


#44

Trichloroethene
 Concen: 22.234 ug/l
 RT: 5.66 min Scan# 510
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	205.6





#45

1,2-Dichloropropane

Concen: 22.396 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 63 Resp: 64274

Ion Ratio Lower Upper

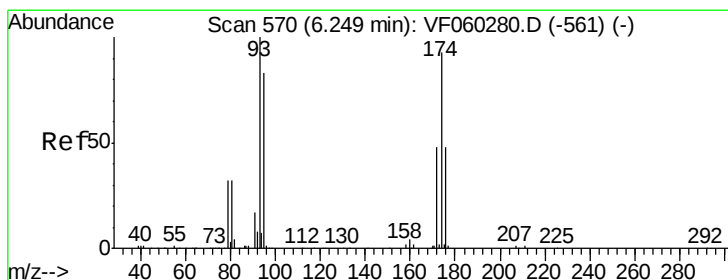
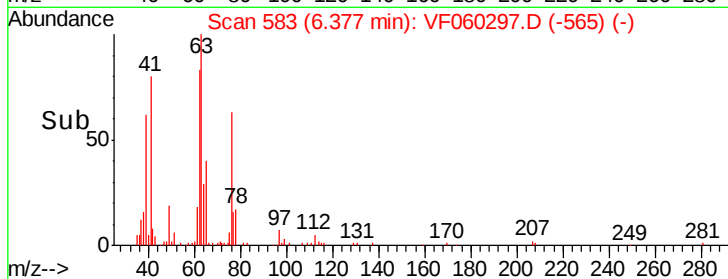
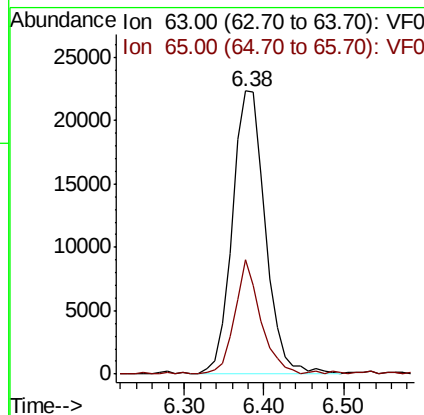
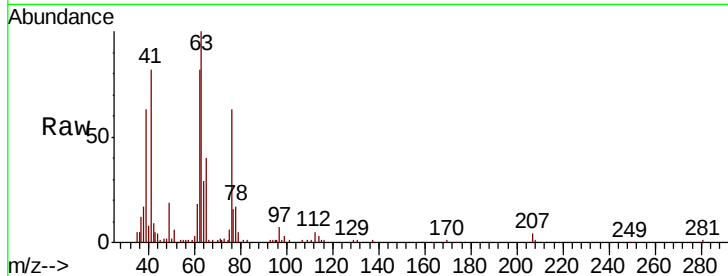
63 100

65 40.5 26.2 39.4#

Manual Integrations
APPROVED

apatel

9/21/2018 11:04:55 AM



#46

Dibromomethane

Concen: 22.527 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

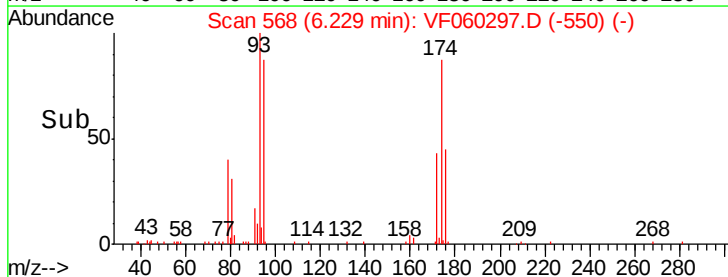
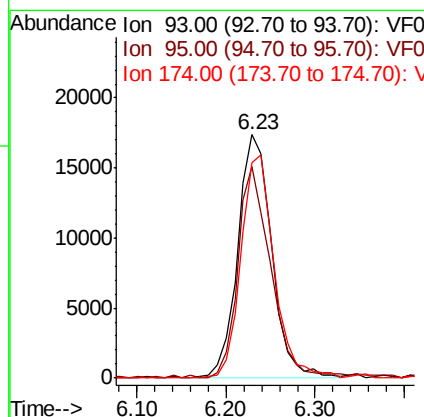
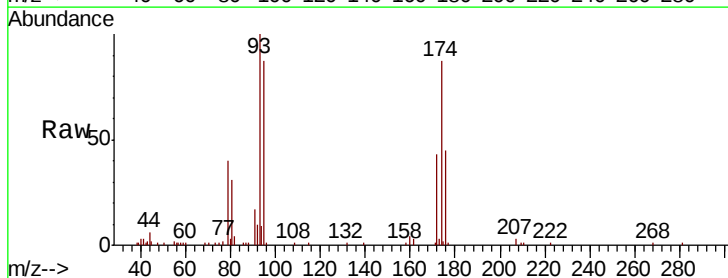
Tgt Ion: 93 Resp: 46213

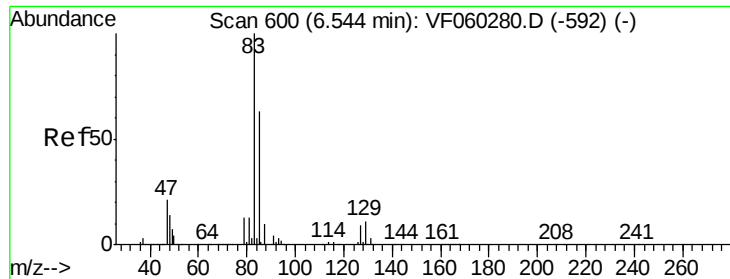
Ion Ratio Lower Upper

93 100

95 88.3 67.0 100.6

174 88.5 74.8 112.2





#47

Bromodichloromethane

Concen: 22.516 ug/l

RT: 6.52 min Scan# 598

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

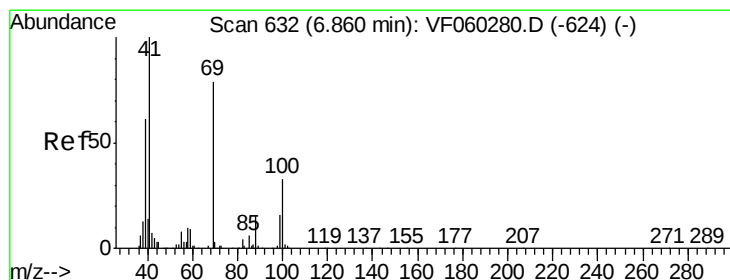
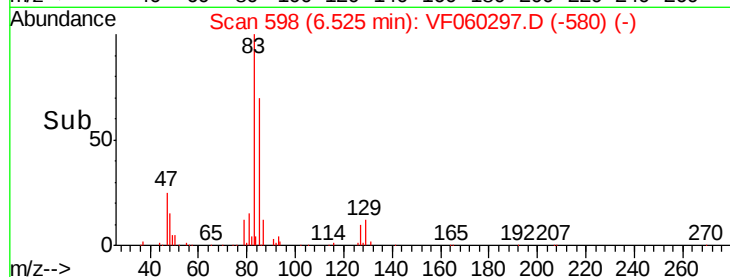
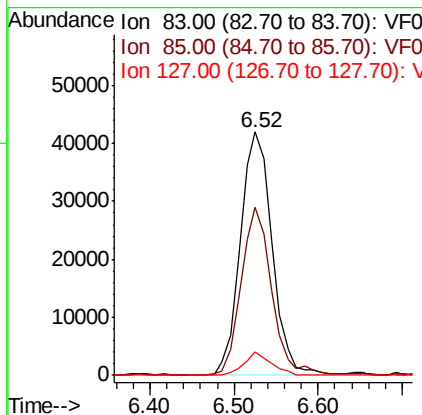
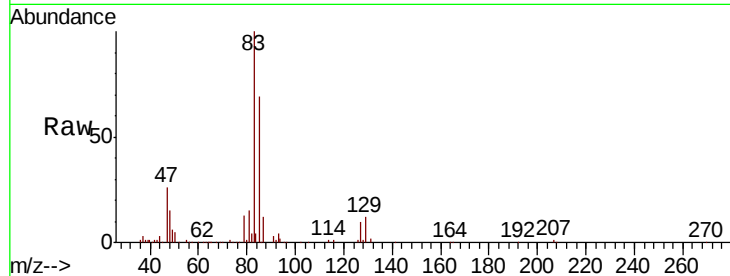
ClientSampleId :

VF0920SBS01

Tot Ion:	83	Resp:	111003
Ion	Ratio	Lower	Upper
83	100		
85	69.2	50.6	76.0
127	10.6	7.1	10.7

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#48

Methyl methacrylate

Concen: 21.791 ug/l

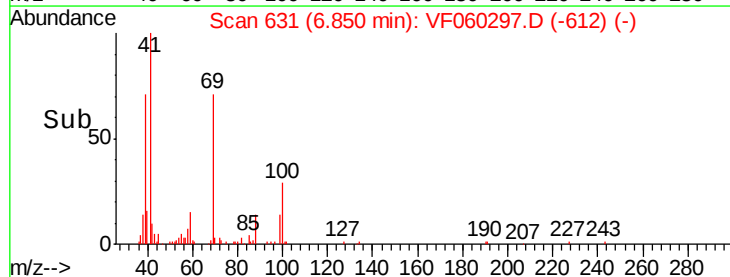
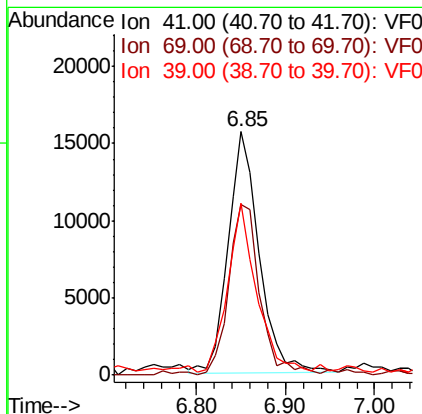
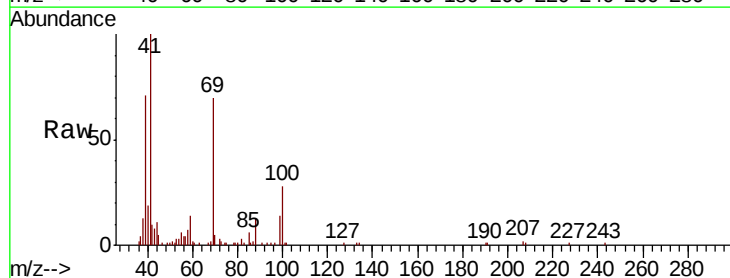
RT: 6.85 min Scan# 631

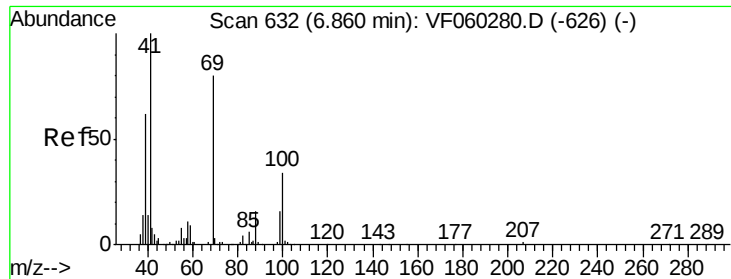
Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	41	Resp:	38107
Ion	Ratio	Lower	Upper
41	100		
69	70.3	62.6	94.0
39	70.6	49.1	73.7





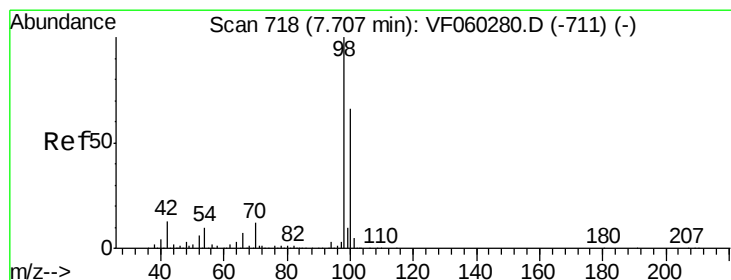
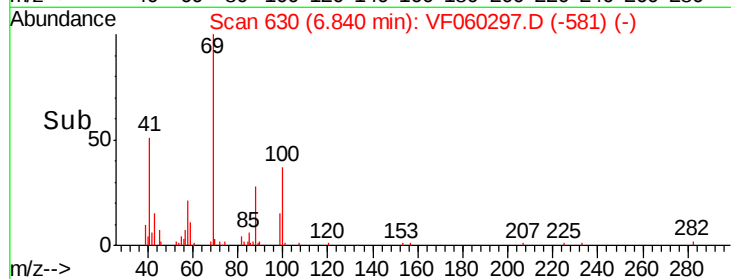
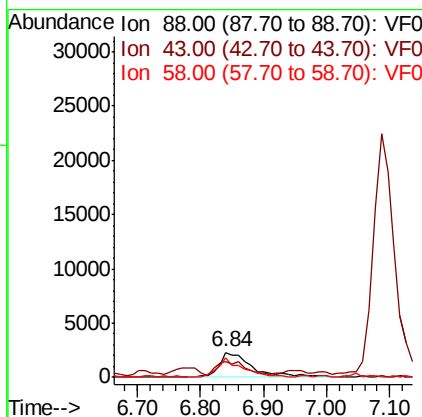
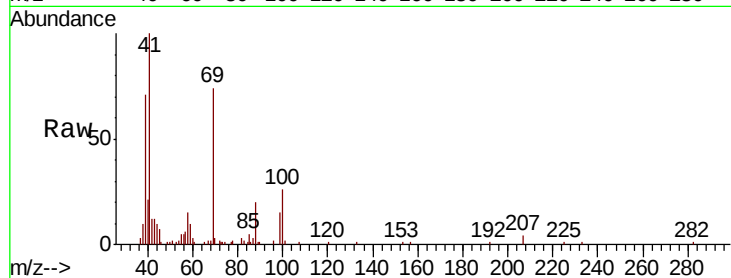
#49
1,4-Dioxane
Concen: 551.430 ug/l
RT: 6.84 min Scan# 630
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	61.6	40.2	60.4#
58	77.4	56.7	85.1

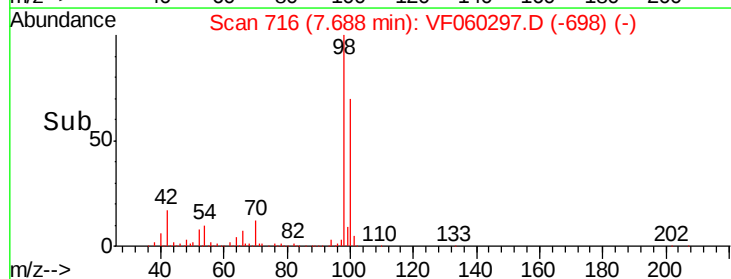
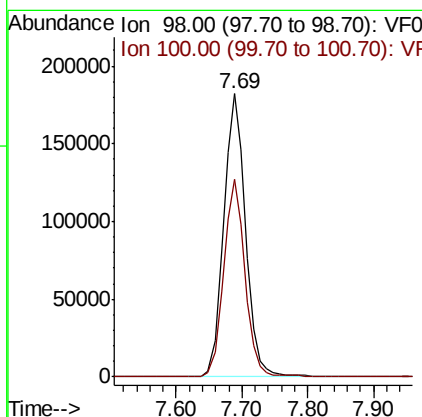
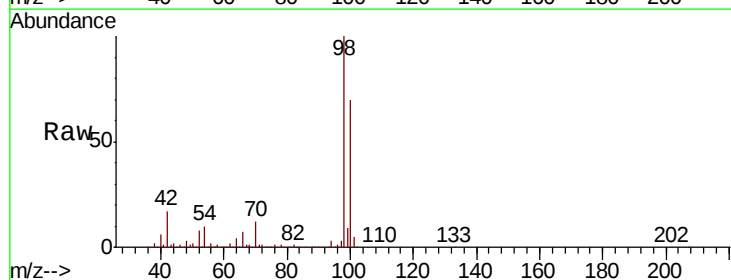
Manual Integrations
APPROVED

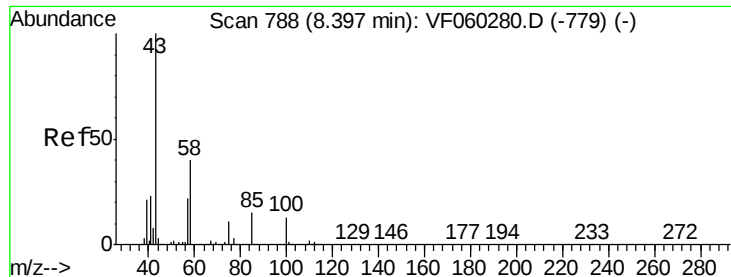
apatel
9/21/2018 11:04:55 AM



#50
Toluene-d8
Concen: 46.523 ug/l
RT: 7.69 min Scan# 716
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.9	53.0	79.6





#51

4-Methyl-2-Pentanone

Concen: 103.201 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 43 Resp: 198150

Ion Ratio Lower Upper

43 100

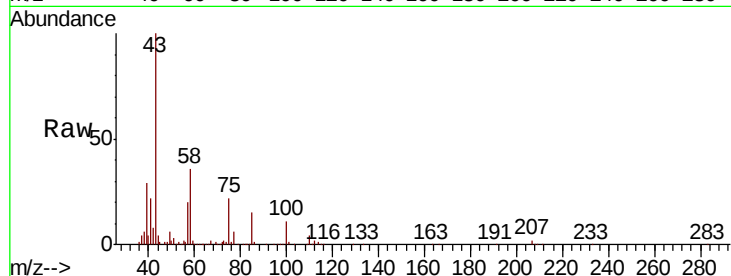
58 36.3 31.8 47.8

Manual Integrations

APPROVED

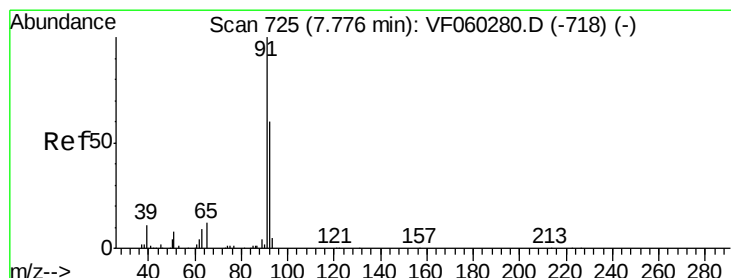
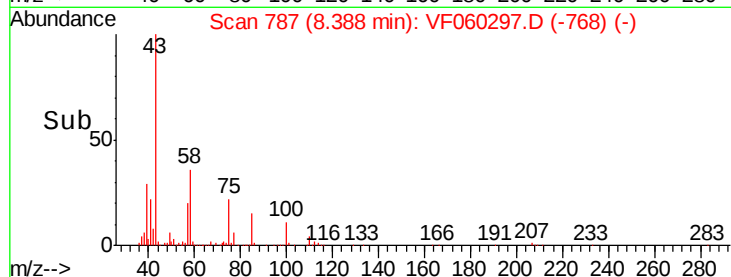
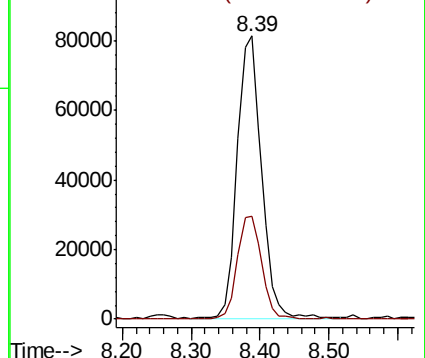
apatel

9/21/2018 11:04:55 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.849 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.02 min

Lab File: VF060297.D

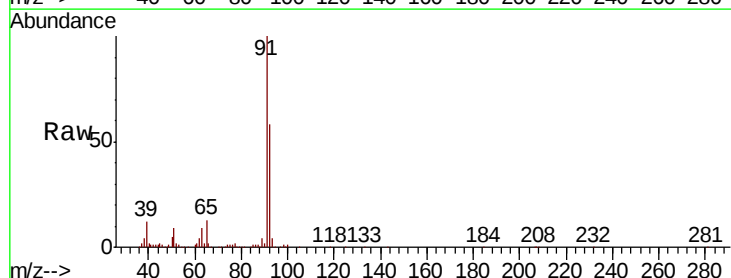
Acq: 20 Sep 2018 12:22

Tgt Ion: 92 Resp: 153275

Ion Ratio Lower Upper

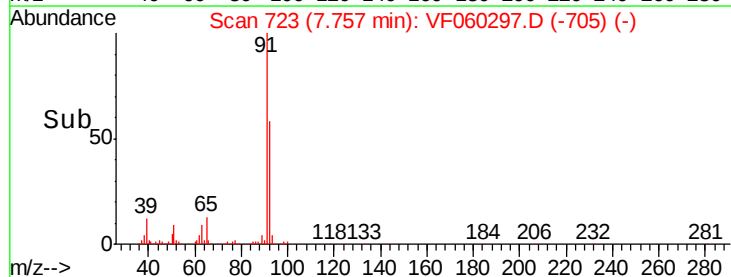
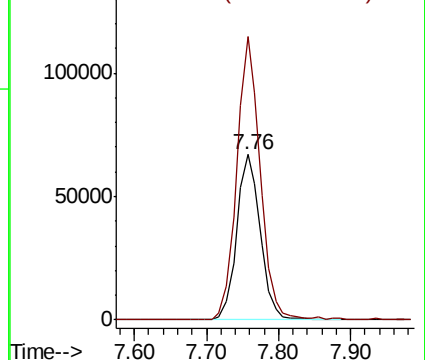
92 100

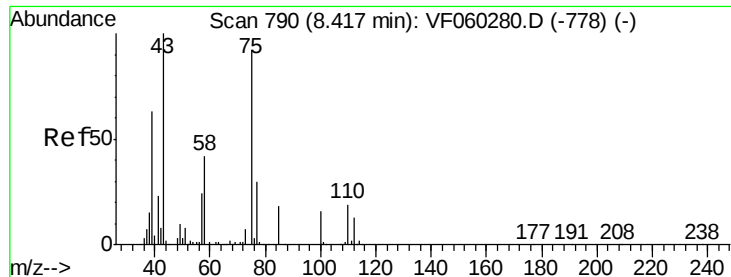
91 171.2 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 23.206 ug/l

RT: 8.41 min Scan# 789

Delta R.T. -0.01 min

Lab File: VF060297.D

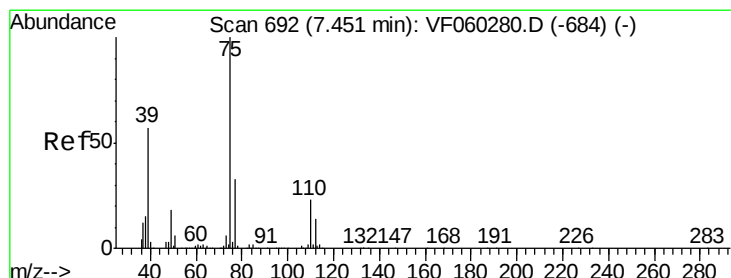
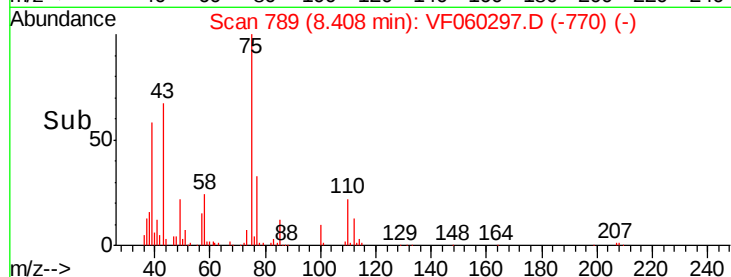
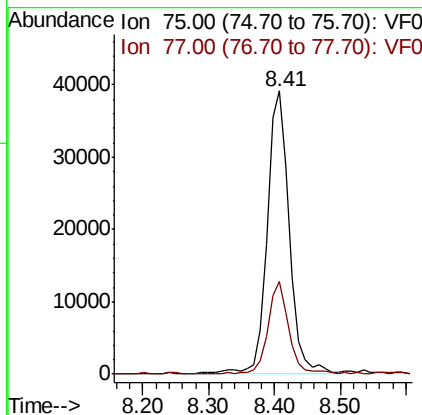
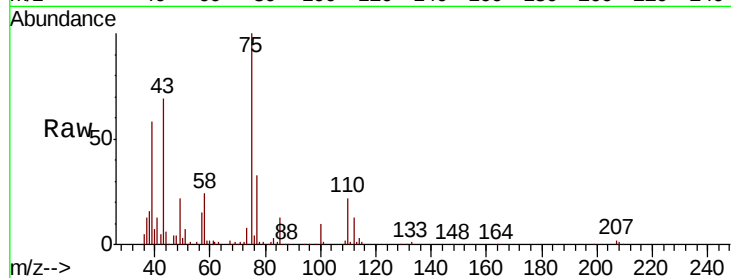
Acq: 20 Sep 2018 12:22

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.9	38.9

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#54

cis-1,3-Dichloropropene

Concen: 21.453 ug/l

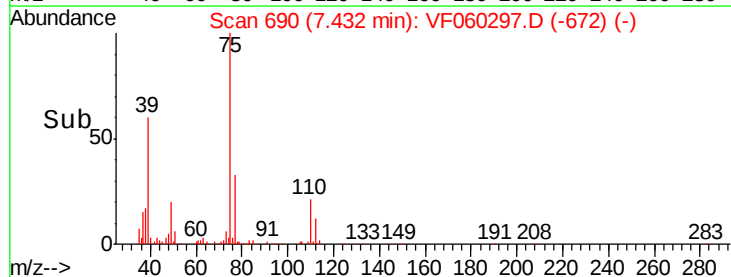
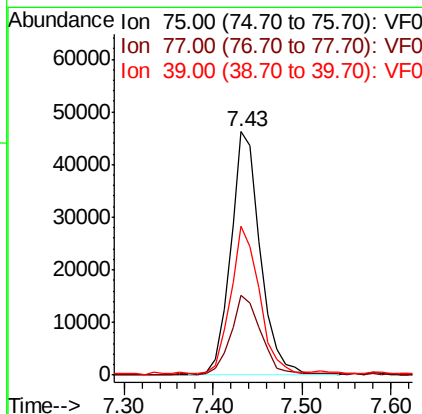
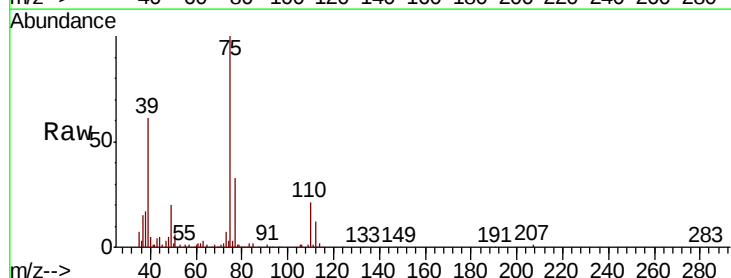
RT: 7.43 min Scan# 690

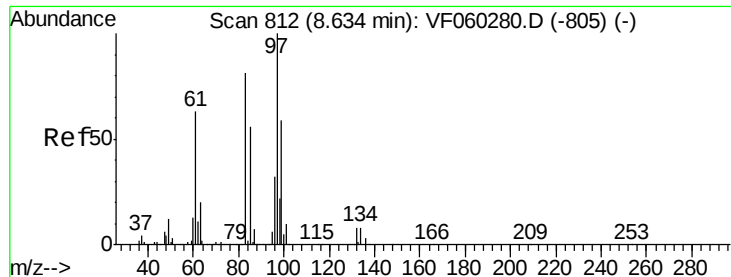
Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.0	26.3	39.5
39	61.1	46.1	69.1





#55

1,1,2-Trichloroethane

Concen: 22.259 ug/l

RT: 8.61 min Scan# 810

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

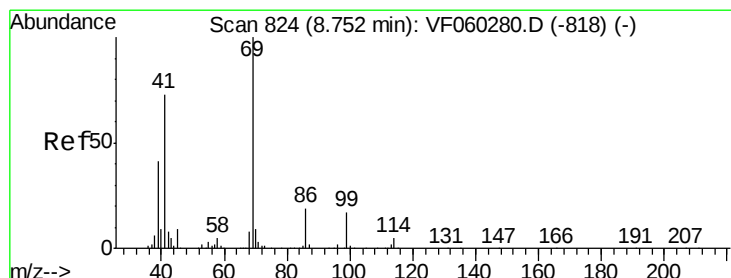
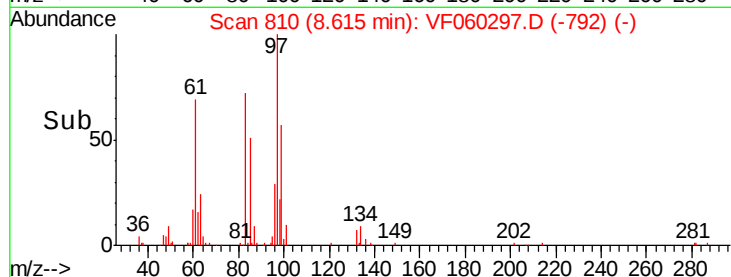
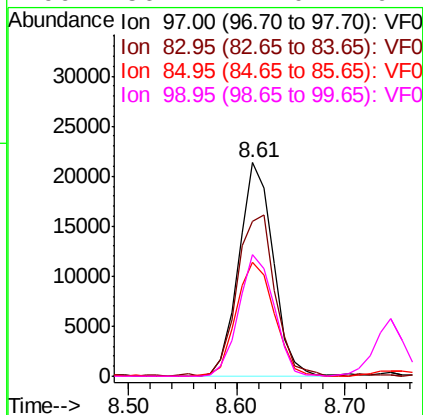
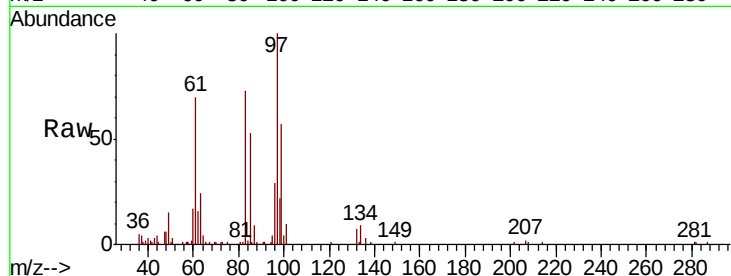
ClientSampleId :

VF0920SBS01

Tot Ion:	97	Resp:	47394
Ion	Ratio	Lower	Upper
97	100		
83	72.7	65.3	97.9
85	53.3	44.7	67.1
99	56.7	47.0	70.4

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#56

Ethyl methacrylate

Concen: 19.276 ug/l

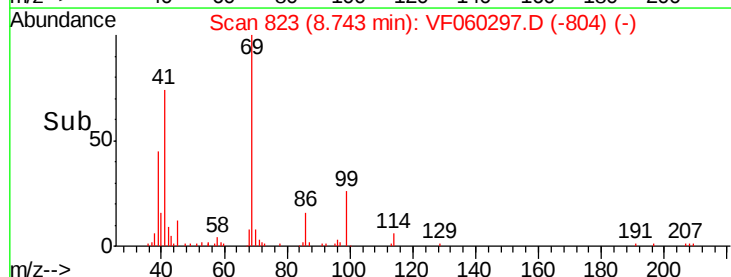
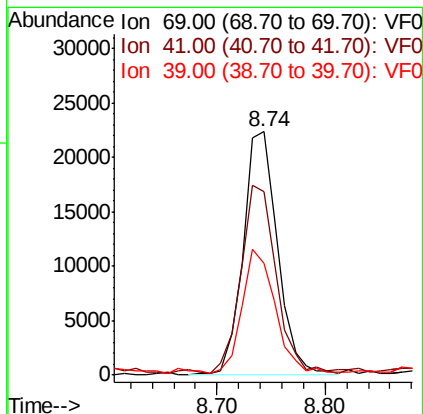
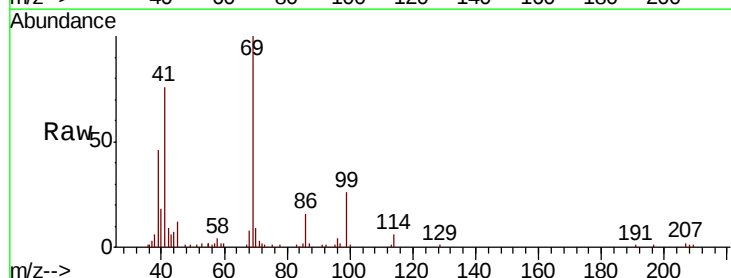
RT: 8.74 min Scan# 823

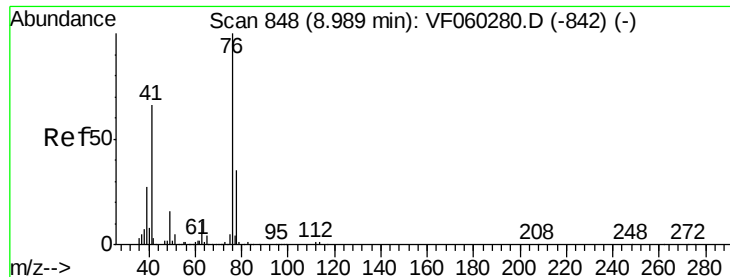
Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	69	Resp:	49567
Ion	Ratio	Lower	Upper
69	100		
41	75.6	59.4	89.2
39	46.1	33.5	50.3





#57

1,3-Dichloropropane

Concen: 22.583 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 76 Resp: 79616

Ion Ratio Lower Upper

76 100

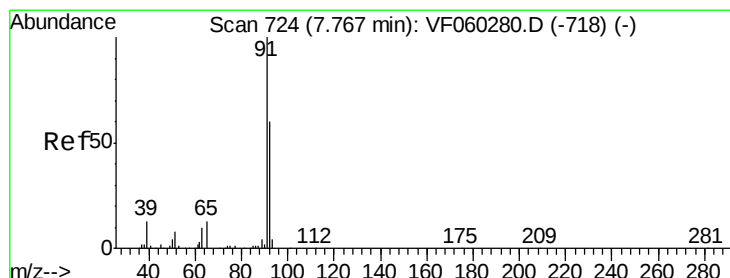
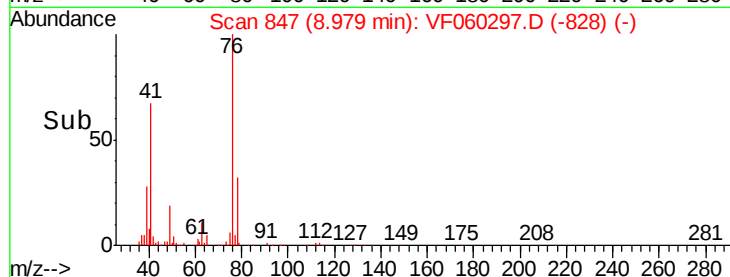
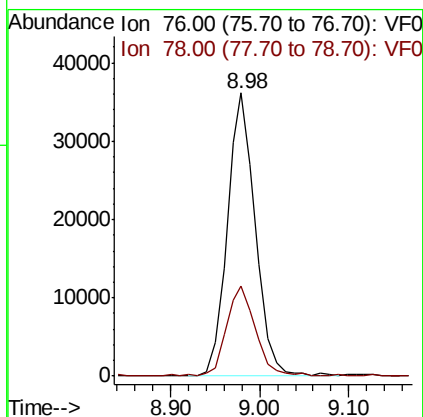
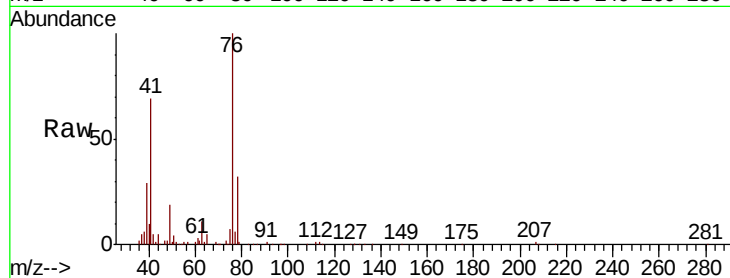
78 31.7 28.2 42.2

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#58

2-Chloroethyl Vinyl ether

Concen: 112.120 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060297.D

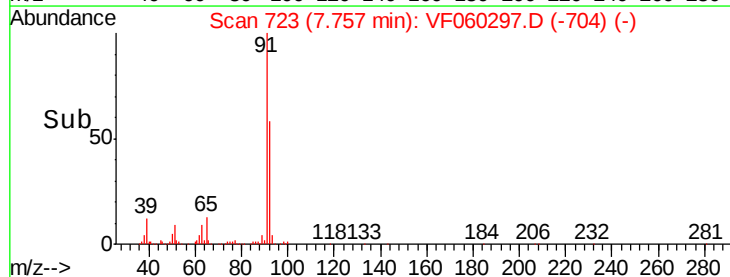
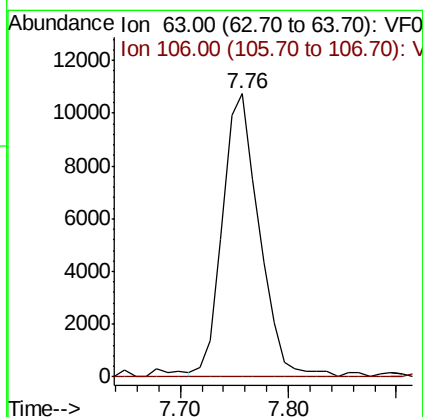
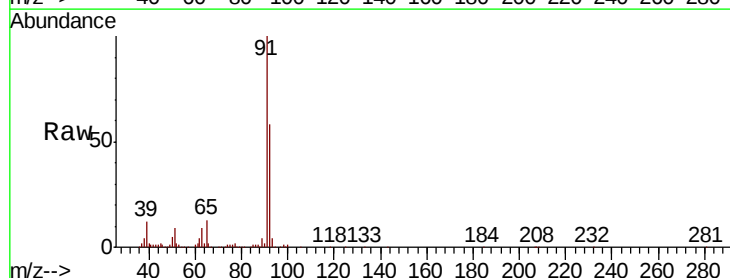
Acq: 20 Sep 2018 12:22

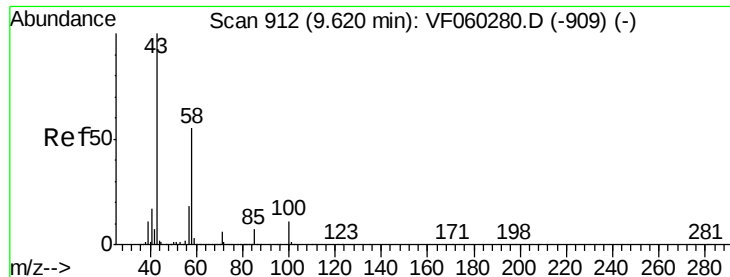
Tgt Ion: 63 Resp: 25488

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





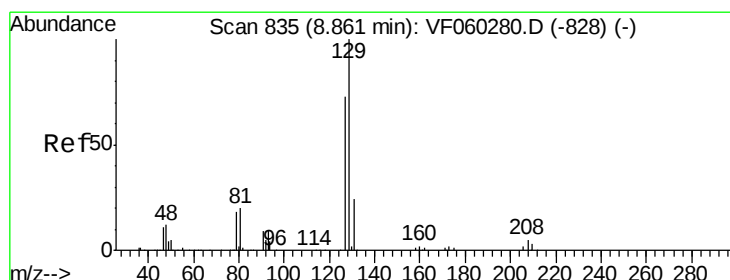
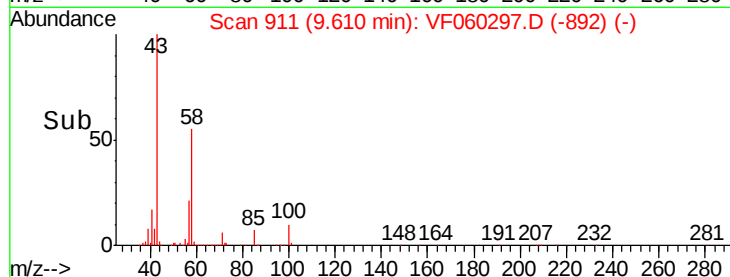
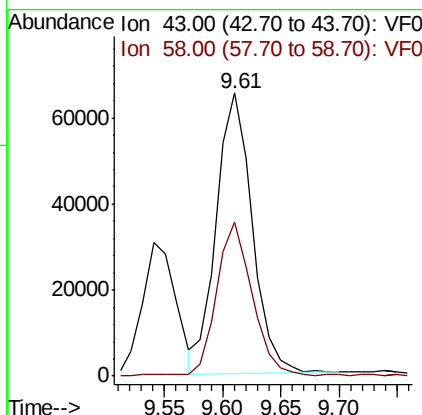
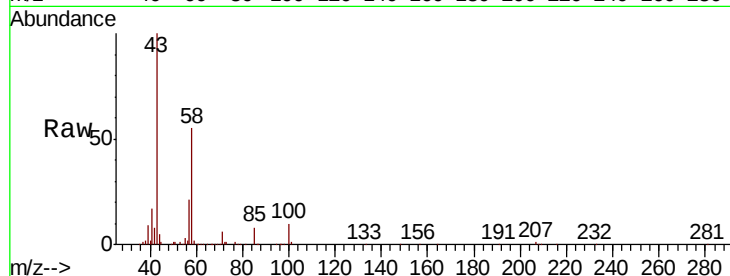
#59
2-Hexanone
Concen: 102.156 ug/l
RT: 9.61 min Scan# 911
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.7	25.9	77.6

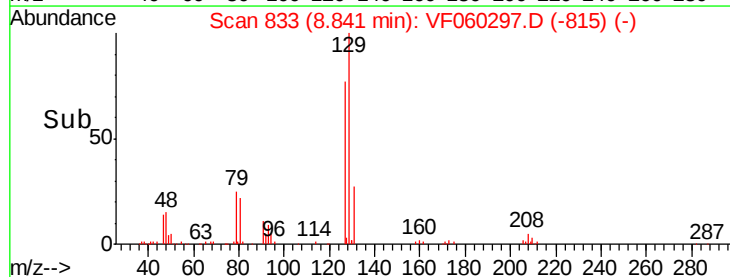
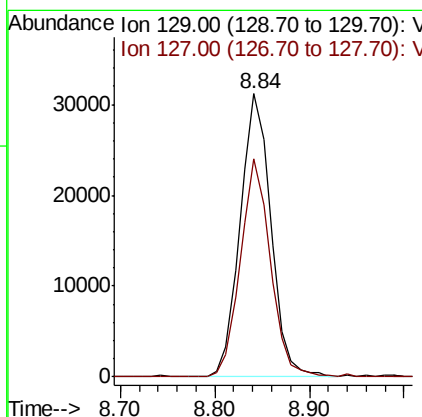
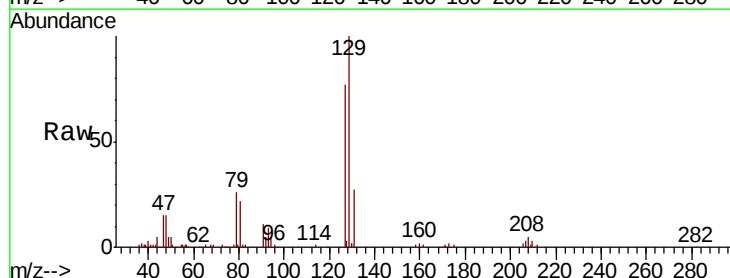
Manual Integrations
APPROVED

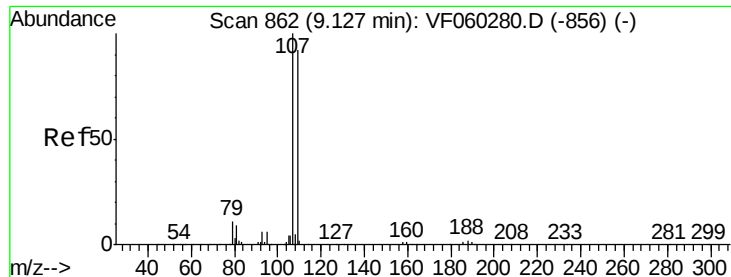
apatel
9/21/2018 11:04:55 AM



#60
Dibromochloromethane
Concen: 22.164 ug/l
RT: 8.84 min Scan# 833
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.9	36.6	109.8





#61

1,2-Dibromoethane

Concen: 21.137 ug/l

RT: 9.12 min Scan# 861

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 107 Resp: 50115

Ion Ratio Lower Upper

107 100

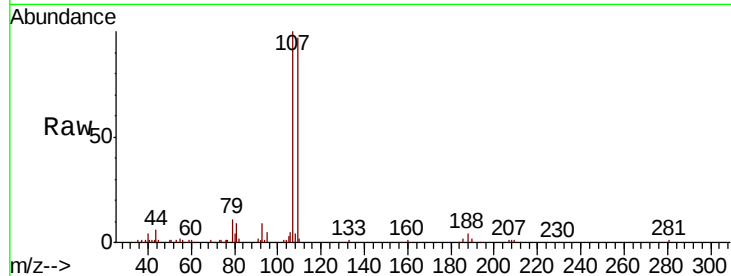
109 97.1 73.2 109.8

Manual Integrations

APPROVED

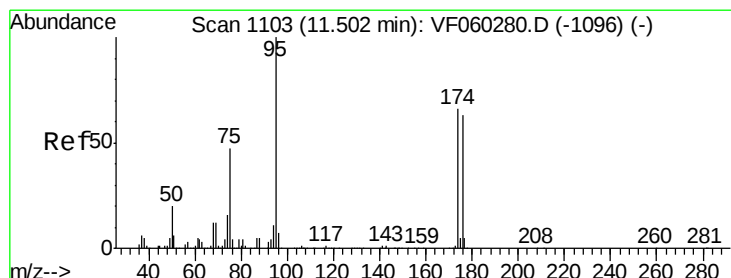
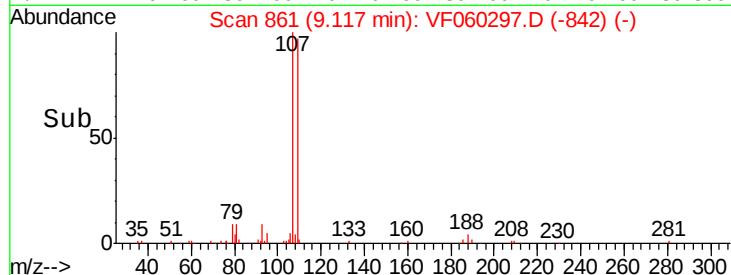
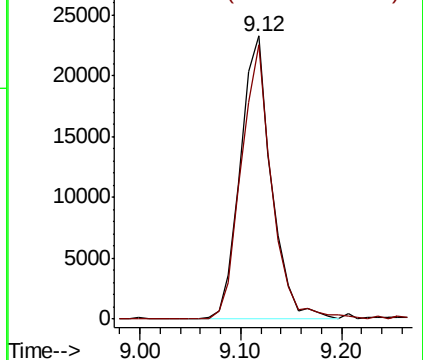
apatel

9/21/2018 11:04:55 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 44.751 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

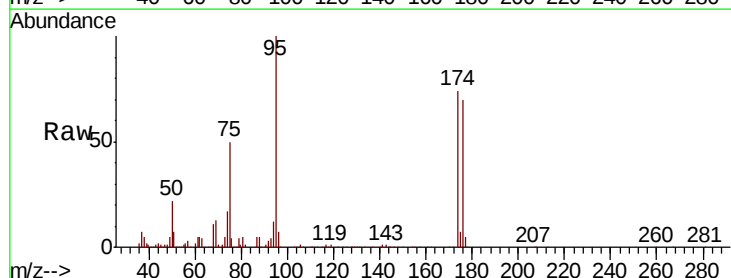
Tgt Ion: 95 Resp: 176067

Ion Ratio Lower Upper

95 100

174 73.7 0.0 131.2

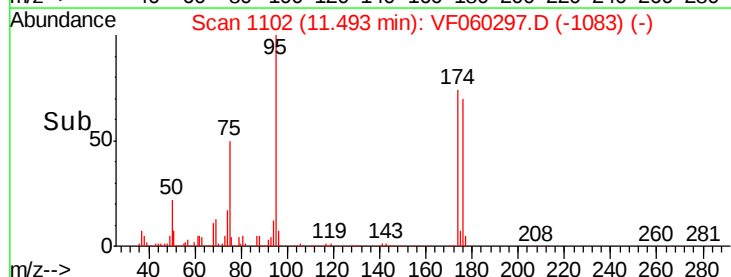
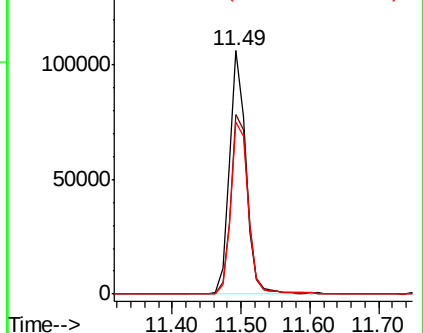
176 70.4 0.0 126.6

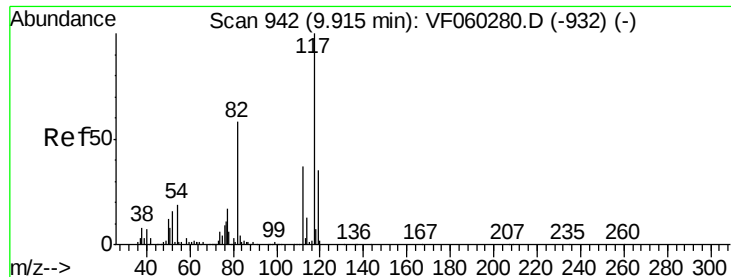


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





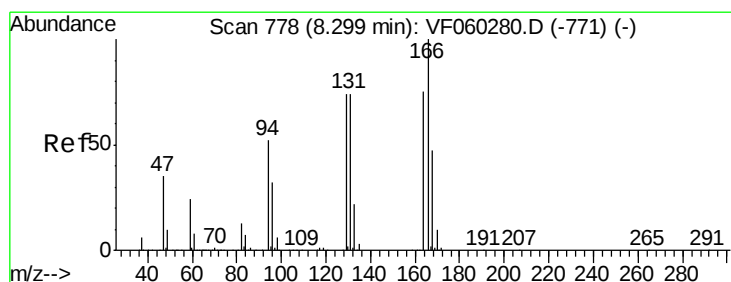
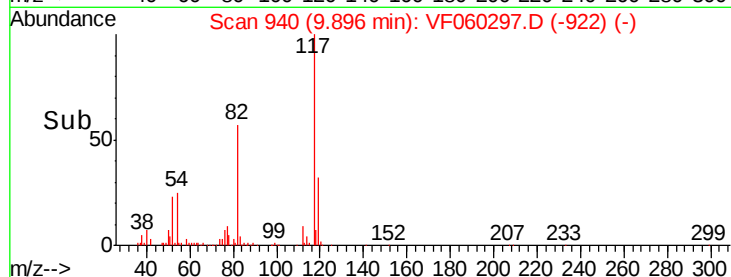
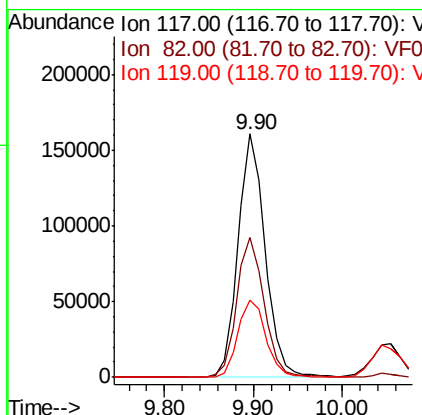
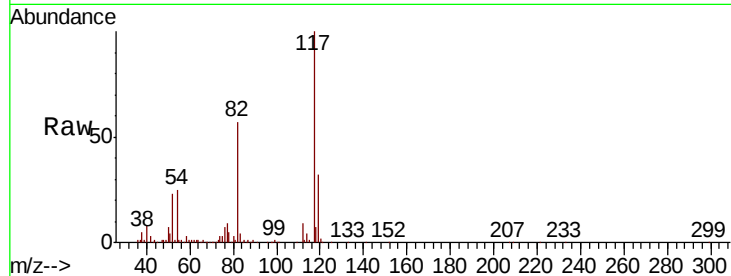
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	339955		
82	57.3	46.2	69.2	
119	31.7	27.8	41.6	

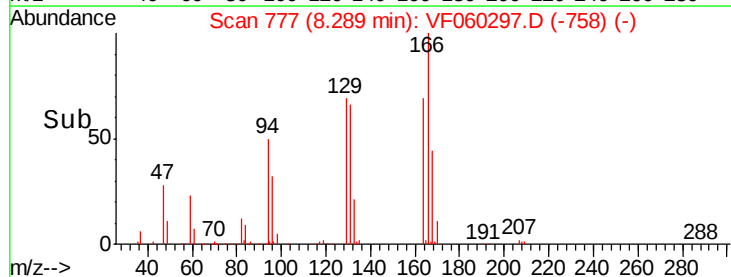
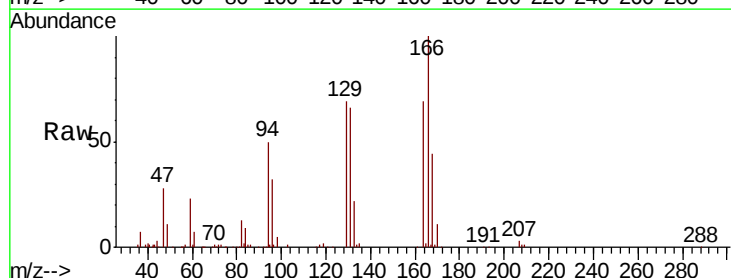
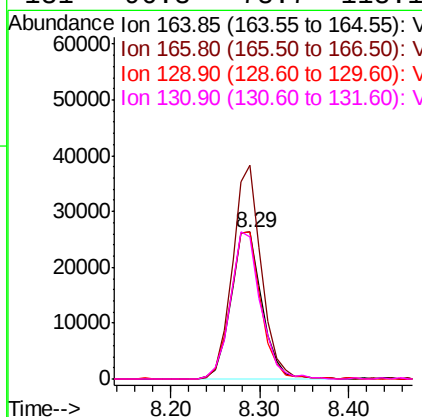
Manual Integrations
APPROVED

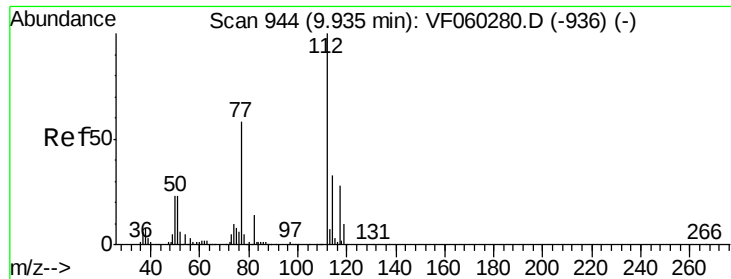
apatel
9/21/2018 11:04:55 AM



#64
Tetrachloroethene
Concen: 20.785 ug/l
RT: 8.29 min Scan# 777
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	64056		
166	145.3	106.8	160.2	
129	100.0	78.8	118.2	
131	96.3	78.7	118.1	





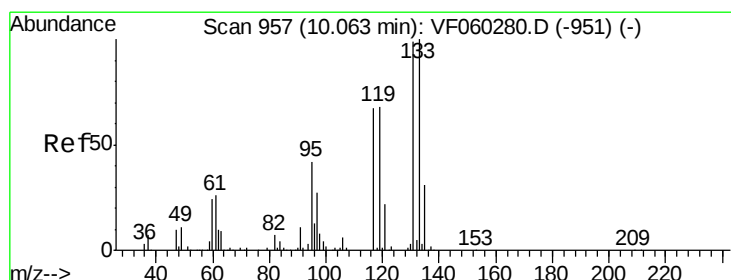
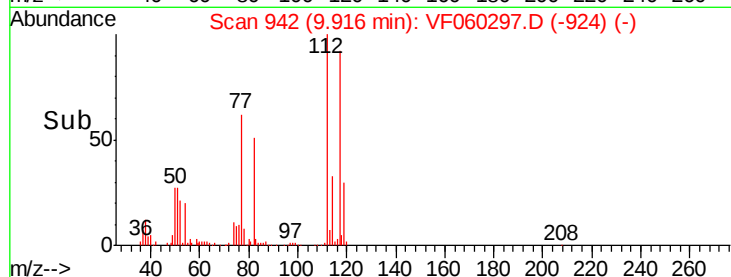
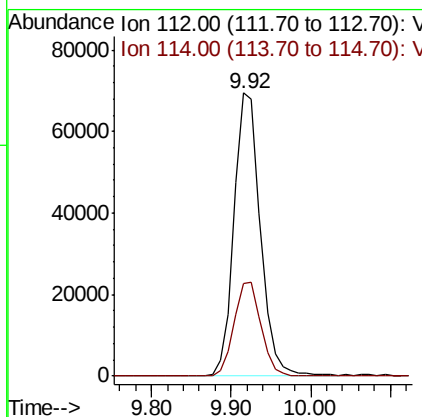
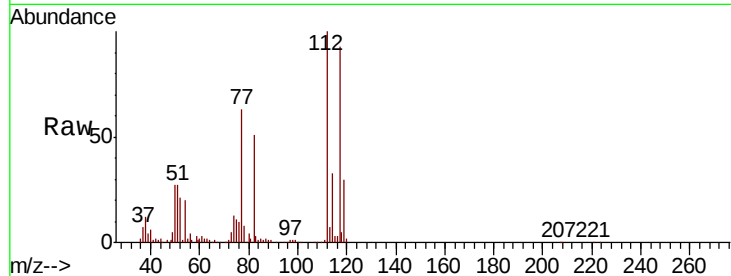
#65
Chlorobenzene
Concen: 20.853 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion:112 Resp: 160669
Ion Ratio Lower Upper
112 100
114 32.8 26.6 40.0

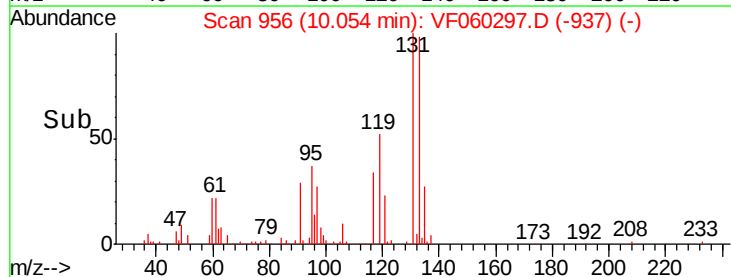
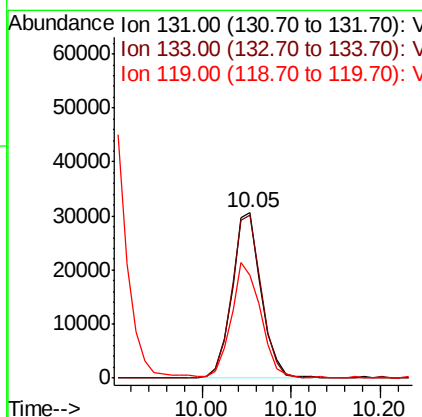
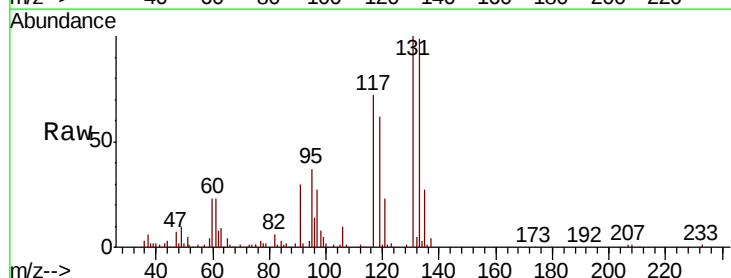
Manual Integrations
APPROVED

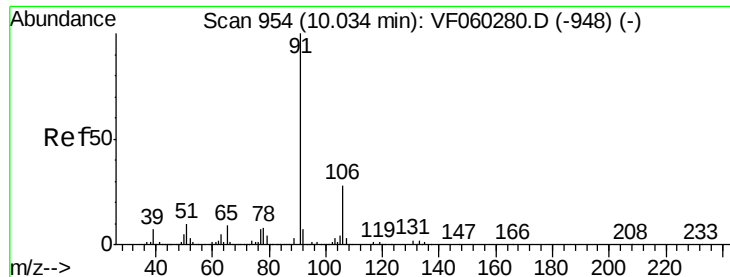
apatel
9/21/2018 11:04:55 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.936 ug/l
RT: 10.05 min Scan# 956
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion:131 Resp: 70140
Ion Ratio Lower Upper
131 100
133 98.5 50.4 151.2
119 62.0 34.8 104.3





#67

Ethyl Benzene

Concen: 21.700 ug/l

RT: 10.01 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion: 91 Resp: 309143

Ion Ratio Lower Upper

91 100

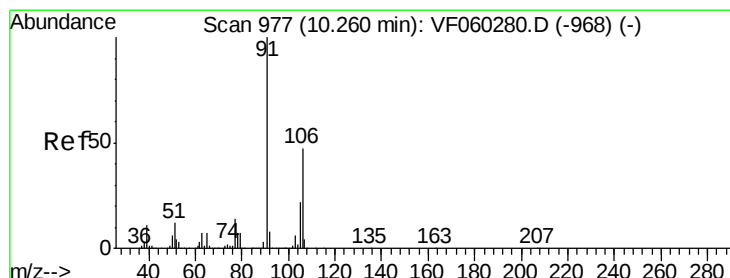
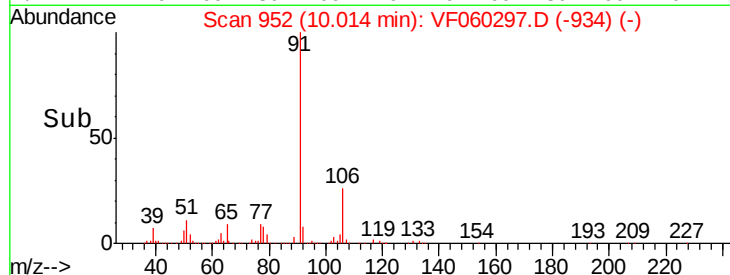
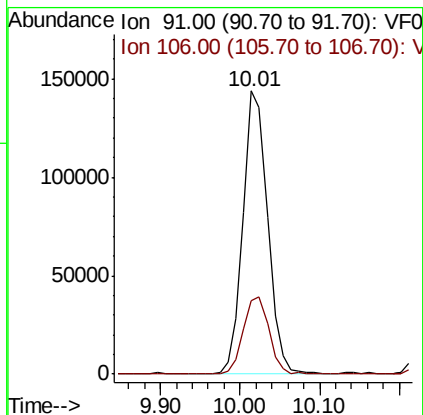
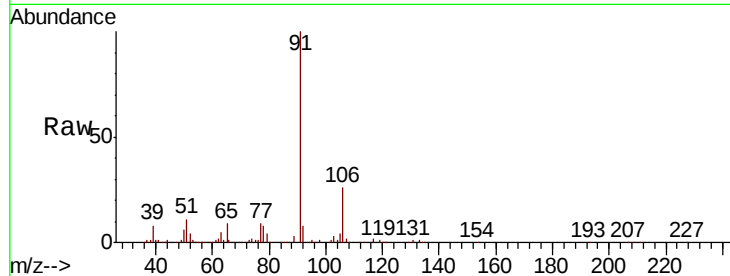
106 26.2 22.7 34.1

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



#68

m/p-Xylenes

Concen: 44.153 ug/l

RT: 10.25 min Scan# 976

Delta R.T. -0.01 min

Lab File: VF060297.D

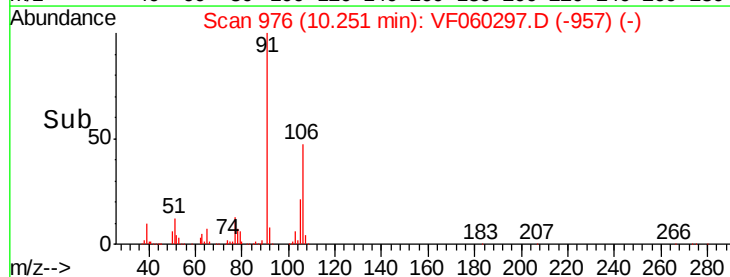
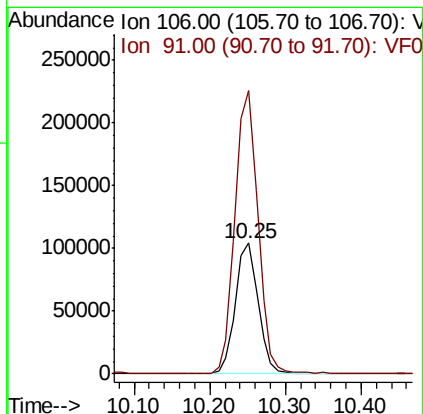
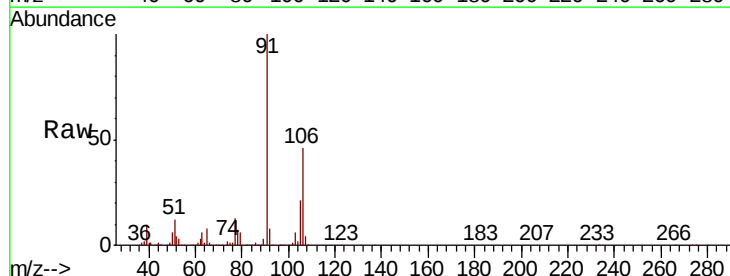
Acq: 20 Sep 2018 12:22

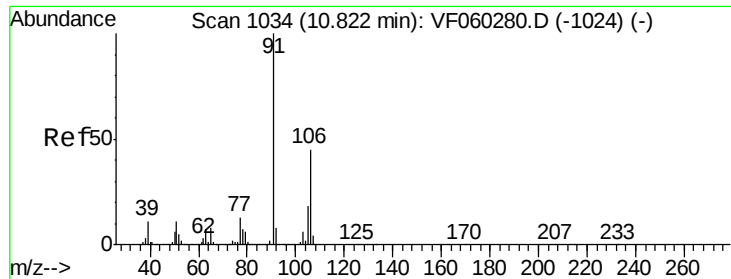
Tgt Ion: 106 Resp: 217314

Ion Ratio Lower Upper

106 100

91 216.2 172.3 258.5





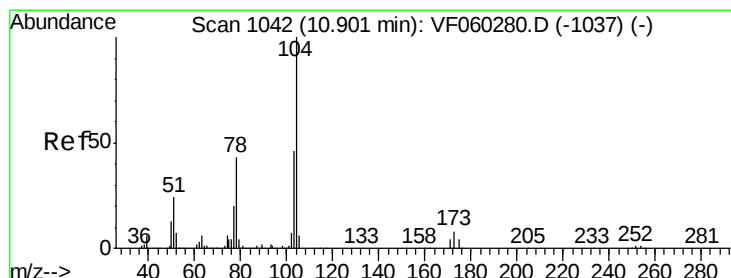
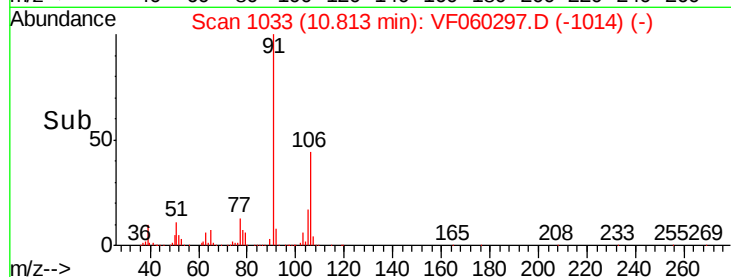
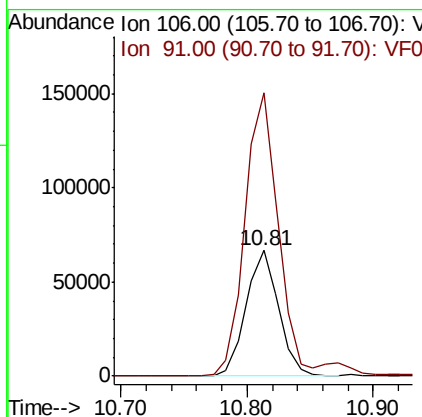
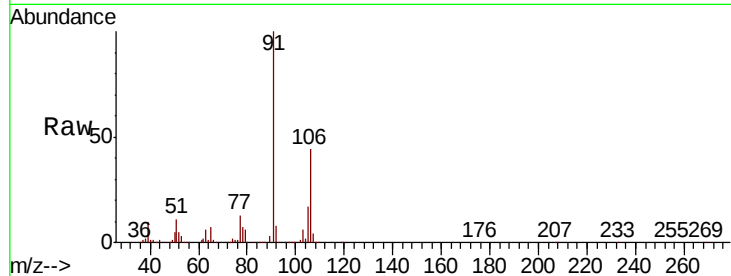
#69
o-Xylene
Concen: 21.801 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	120349		
91	91	225.4	110.9	332.6	

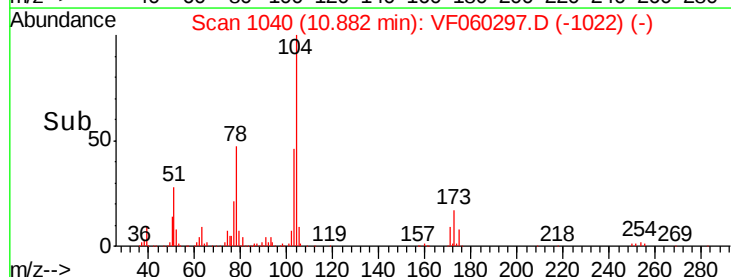
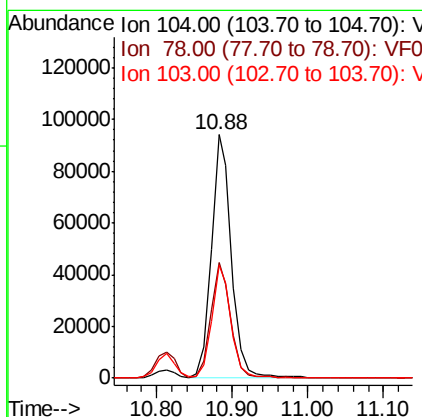
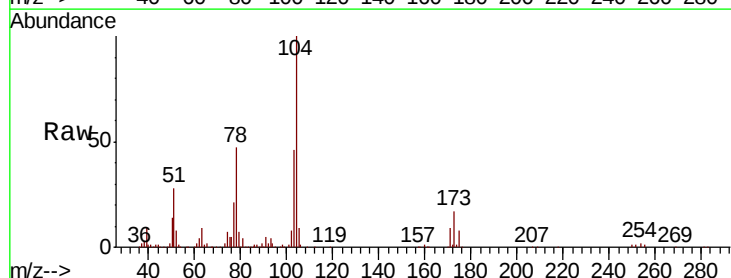
Manual Integrations
APPROVED

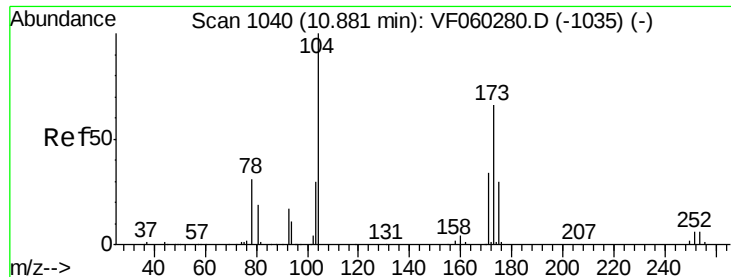
apatel
9/21/2018 11:04:55 AM



#70
Styrene
Concen: 22.366 ug/l
RT: 10.88 min Scan# 1040
Delta R.T. -0.02 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	174125		
78	78	47.2	35.0	52.6	
103	103	46.3	37.4	56.0	





#71

Bromoform

Concen: 23.587 ug/l

RT: 10.87 min Scan# 1039

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

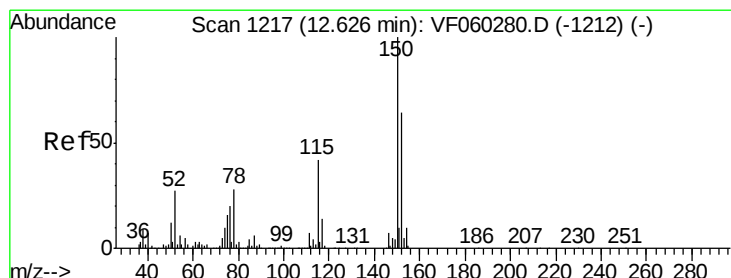
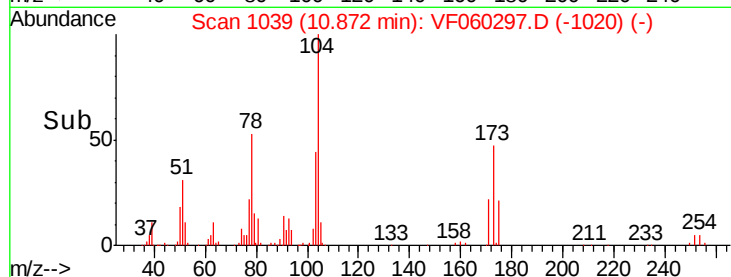
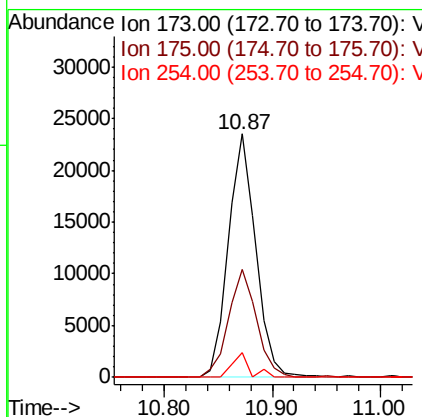
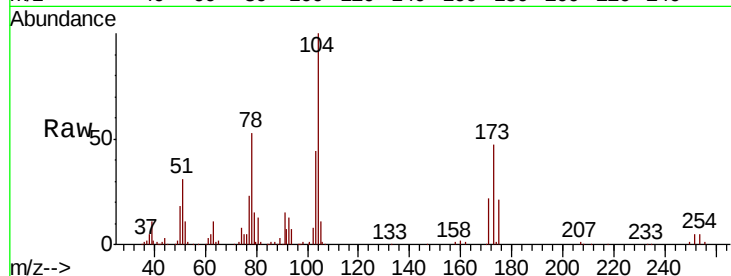
ClientSampleId :

VF0920SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100		41420		
175	44.4	22.3	66.9		
254	10.0	0.0	0.0		

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

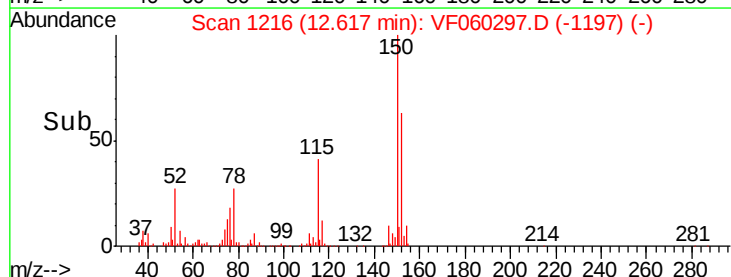
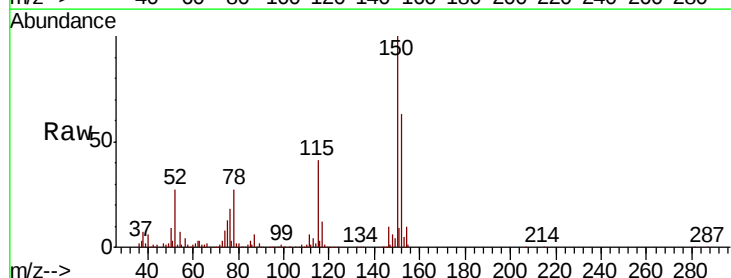
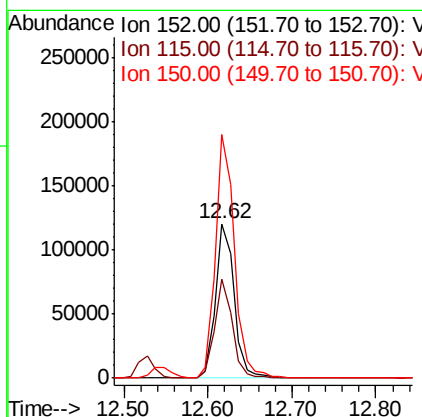
RT: 12.62 min Scan# 1216

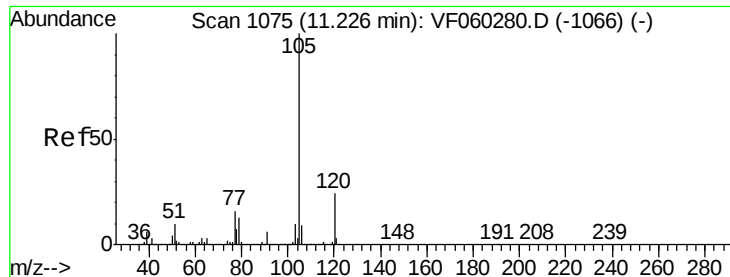
Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100		184801		
115	64.6	32.6	97.8		
150	158.0	0.0	314.2		





#73

Isopropylbenzene

Concen: 21.865 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion:105 Resp: 362737

Ion Ratio Lower Upper

105 100

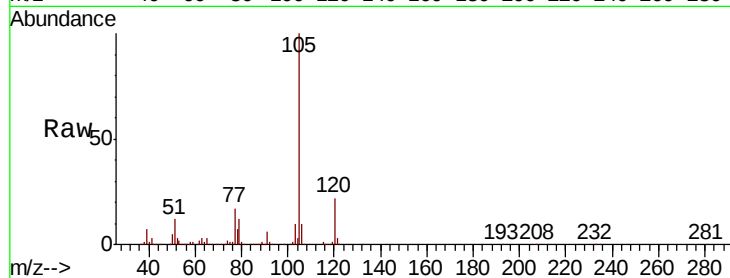
120 22.5 12.2 36.6

Manual Integrations

APPROVED

apatel

9/21/2018 11:04:55 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

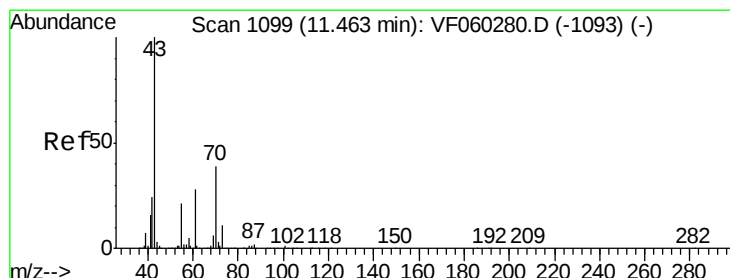
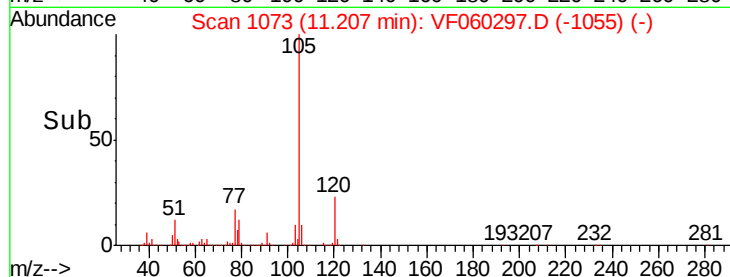
100000

50000

0

11.10 11.20 11.30 11.40

Time-->



#74

N-ethyl acetate

Concen: 19.092 ug/l

RT: 11.44 min Scan# 1097

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion: 43 Resp: 67541

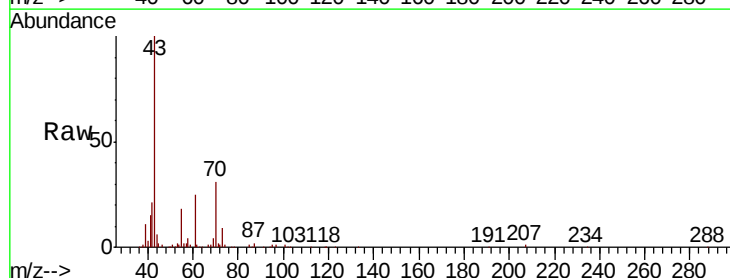
Ion Ratio Lower Upper

43 100

70 31.0 31.4 47.2#

55 18.4 16.8 25.2

61 24.8 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

50000

40000

30000

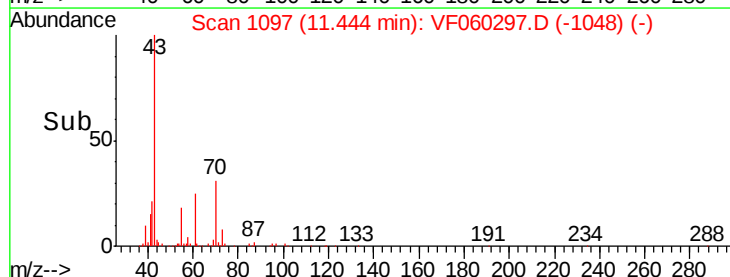
20000

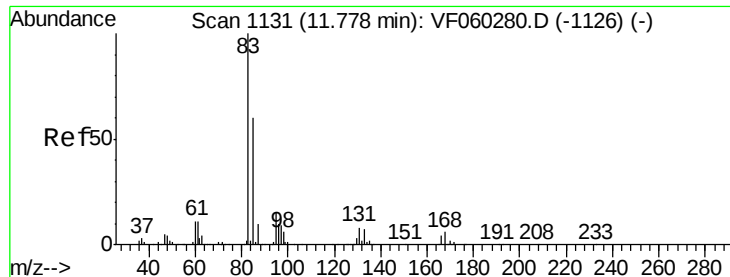
10000

0

11.40 11.45 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.262 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

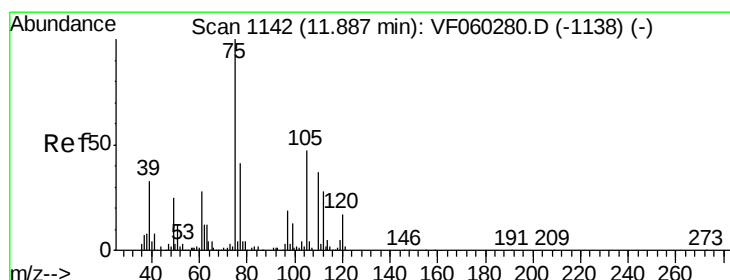
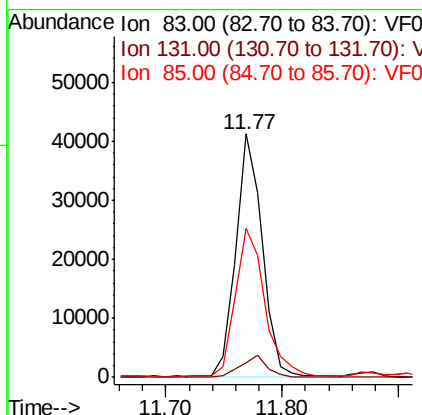
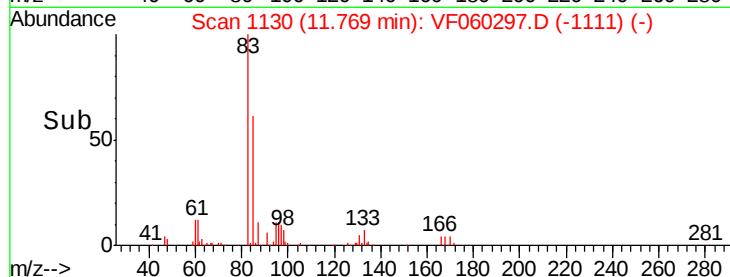
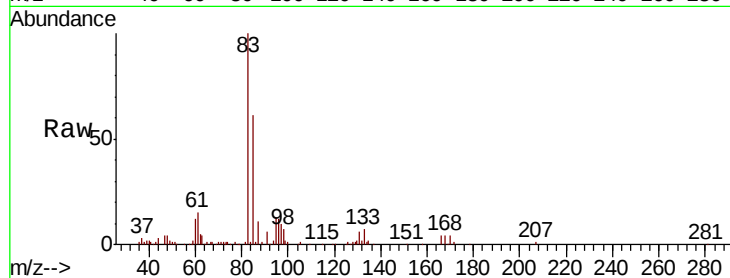
ClientSampleId :

VF0920SBS01

Tot Ion:	83	Resp:	65453
Ion Ratio	Lower	Upper	
83	100		
131	6.2	4.2	12.4
85	60.9	30.1	90.5

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#76

1,2,3-Trichloropropane

Concen: 22.884 ug/l

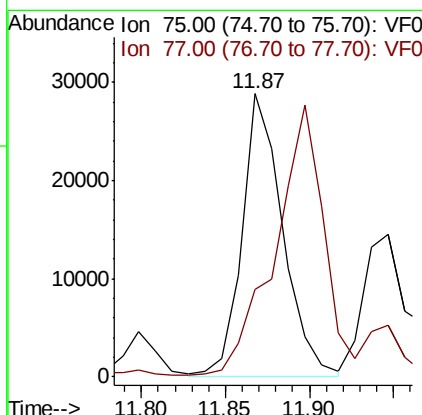
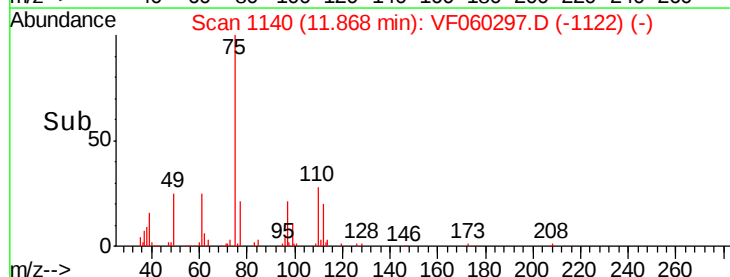
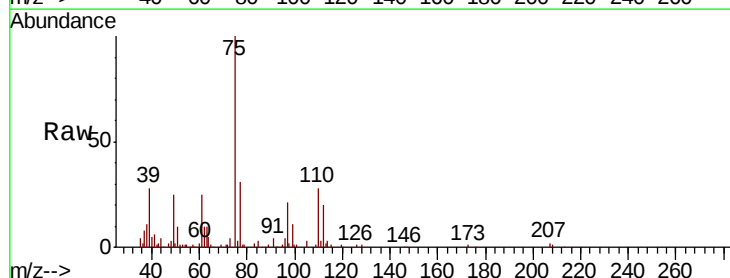
RT: 11.87 min Scan# 1140

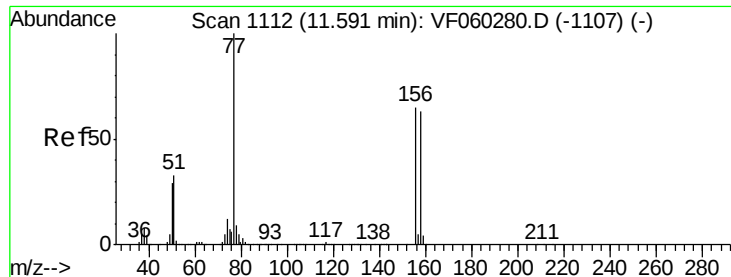
Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	75	Resp:	48175
Ion Ratio	Lower	Upper	
75	100		
77	30.8	20.5	61.5





#77

Bromobenzene

Concen: 20.401 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

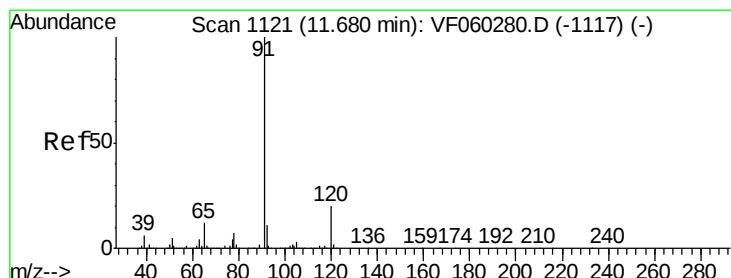
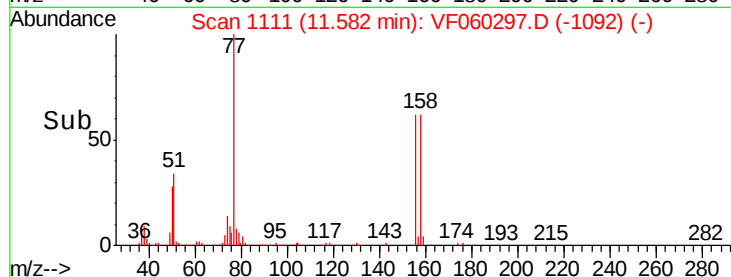
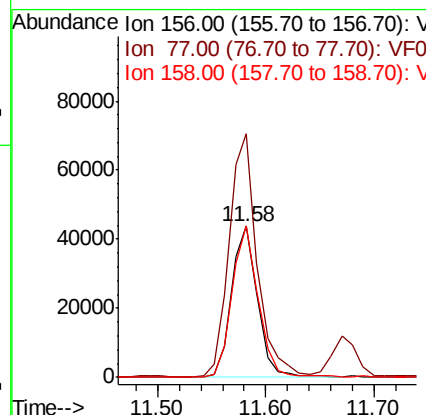
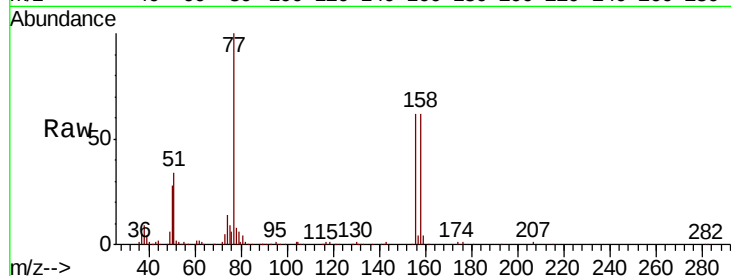
ClientSampleId :

VF0920SBS01

Tot Ion:	156	Resp:	72939
Ion Ratio	Lower	Upper	
156	100		
77	161.1	77.3	232.1
158	100.2	48.4	145.2

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#78

n-propylbenzene

Concen: 22.672 ug/l

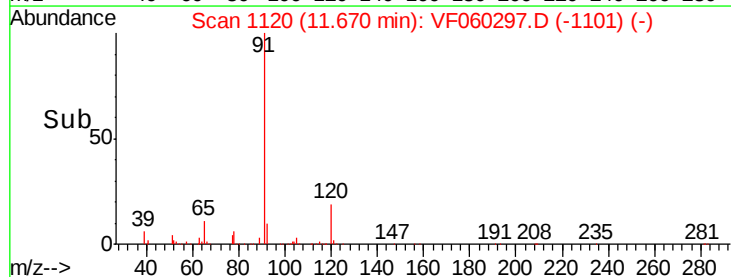
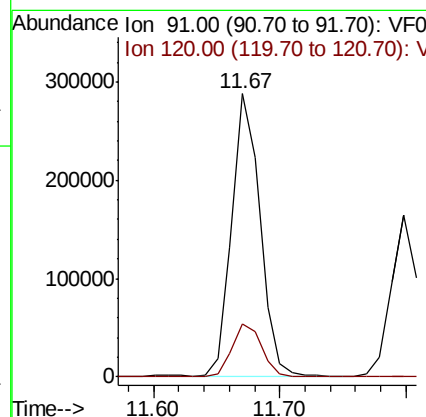
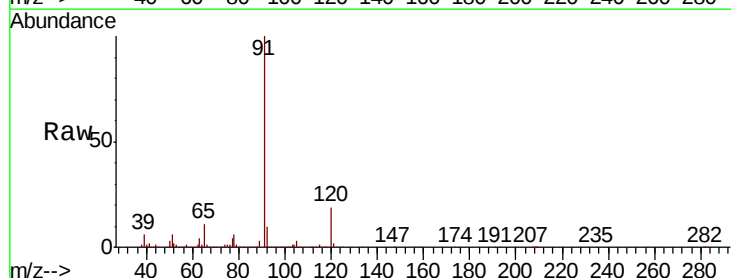
RT: 11.67 min Scan# 1120

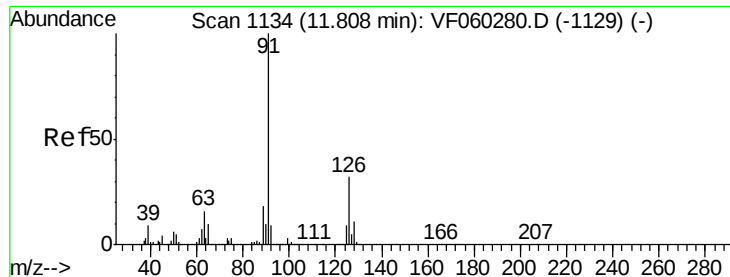
Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	91	Resp:	445272
Ion Ratio	Lower	Upper	
91	100		
120	18.7	10.0	29.8





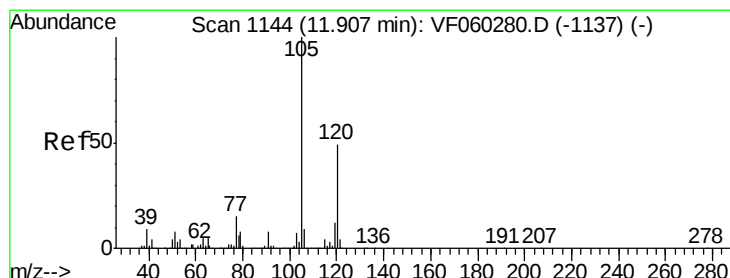
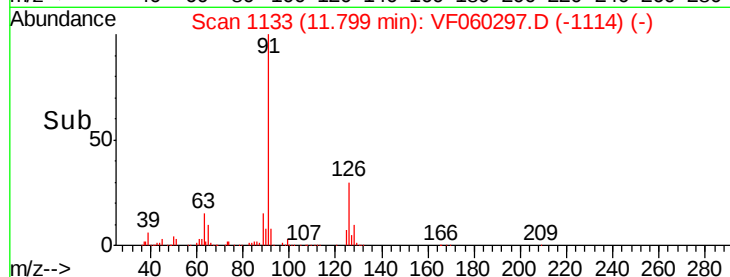
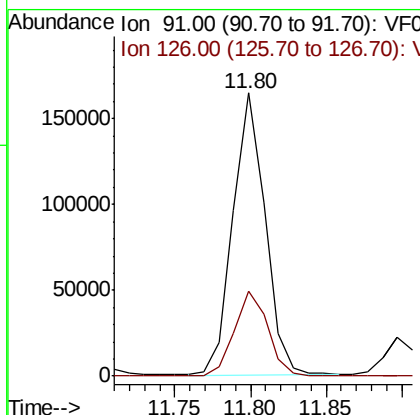
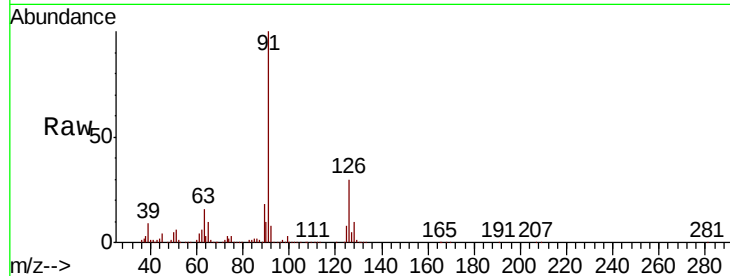
#79
 2-Chlorotoluene
 Concen: 21.755 ug/l
 RT: 11.80 min Scan# 1133
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0920SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		243460		
126	30.1	16.1	48.3		

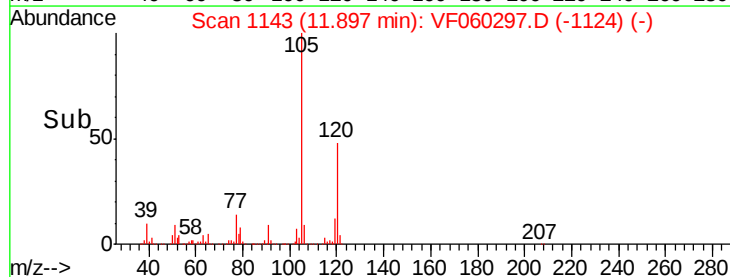
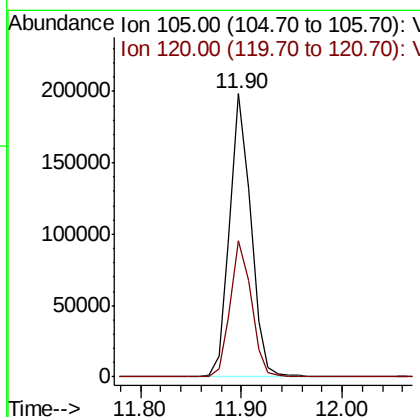
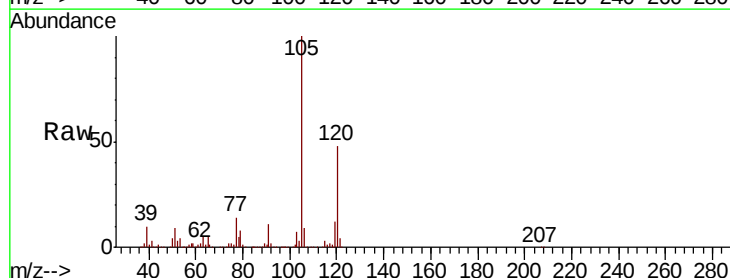
Manual Integrations
 APPROVED

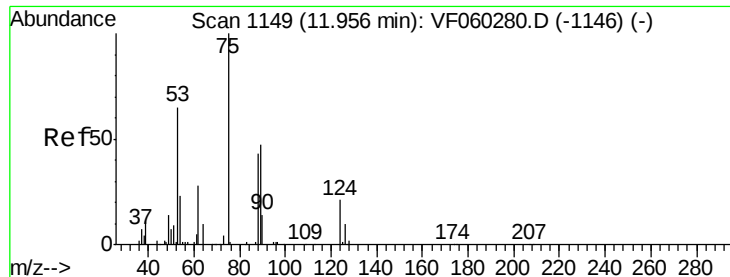
apatel
 9/21/2018 11:04:55 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 21.781 ug/l
 RT: 11.90 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		290867		
120	48.3	24.4	73.2		





#81

trans-1,4-Dichloro-2-butene

Concen: 23.342 ug/l m

RT: 11.95 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

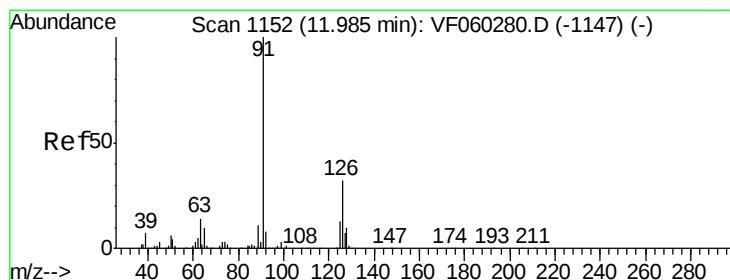
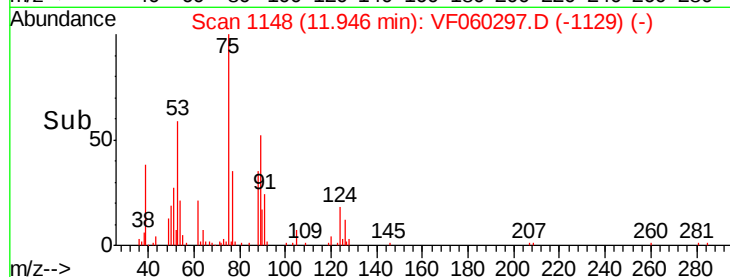
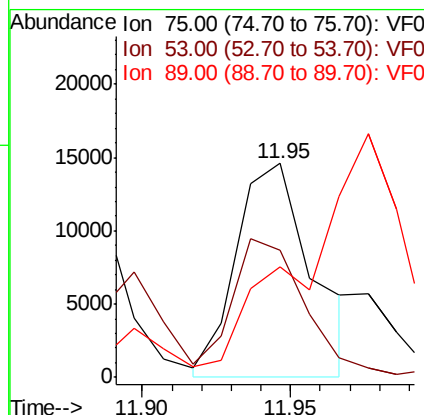
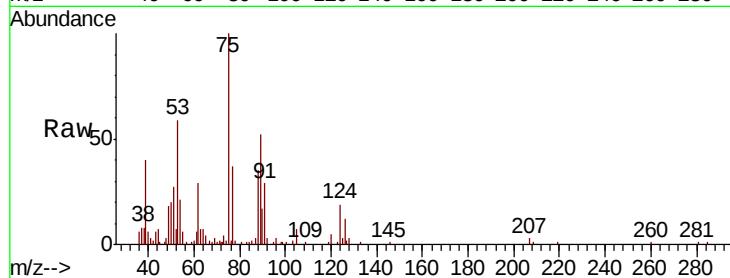
ClientSampleId :

VF0920SBS01

Tot Ion:	75	Resp:	25969
Ion	Ratio	Lower	Upper
75	100		
53	59.4	56.5	84.7
89	51.9	40.6	60.8

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#82

4-Chlorotoluene

Concen: 21.739 ug/l

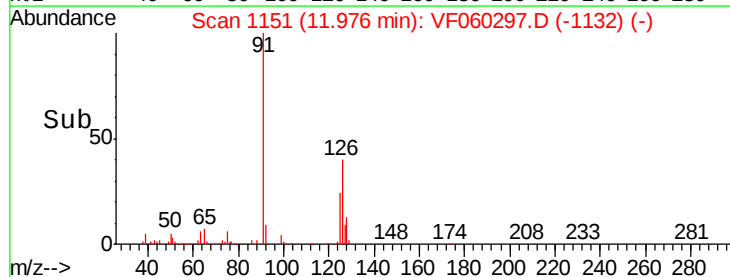
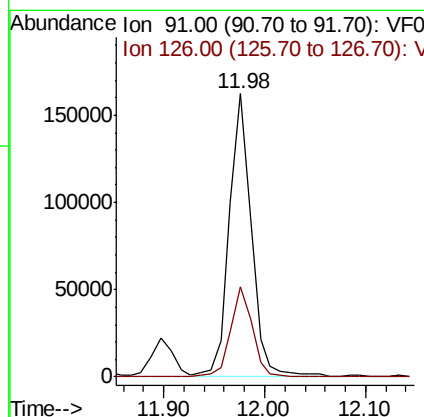
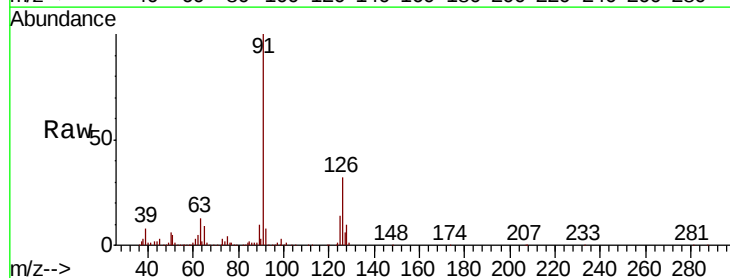
RT: 11.98 min Scan# 1151

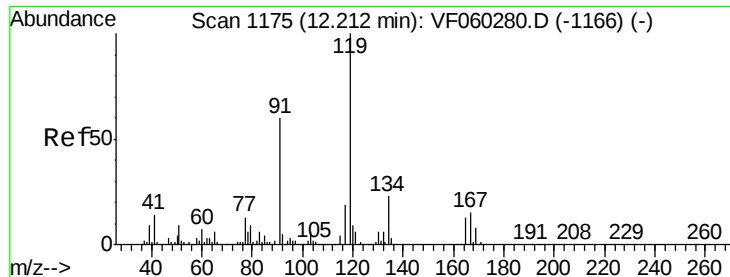
Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	91	Resp:	244517
Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.1	48.2





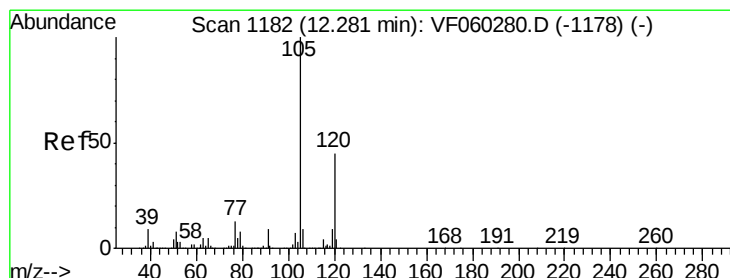
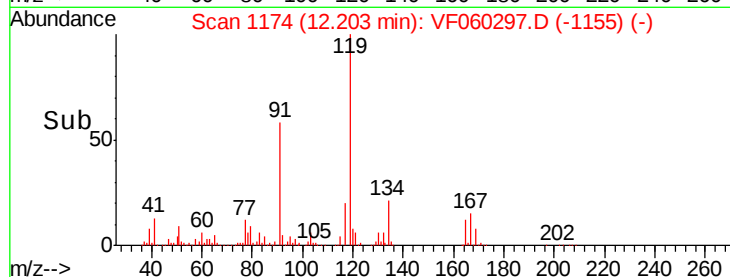
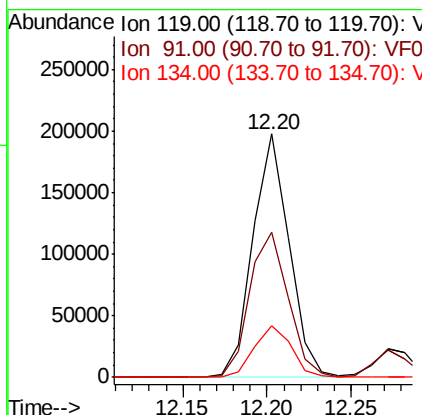
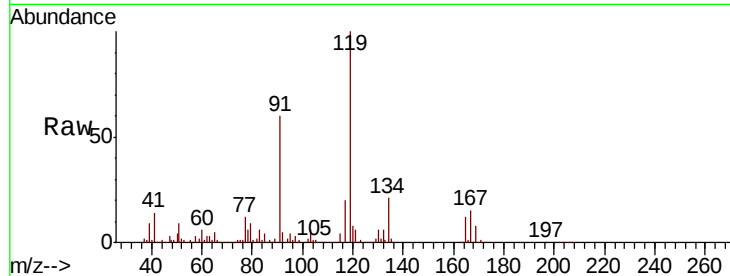
#83
tert-Butylbenzene
Concen: 21.887 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	296291		
91	59.7	30.3	91.0	
134	21.4	11.6	34.8	

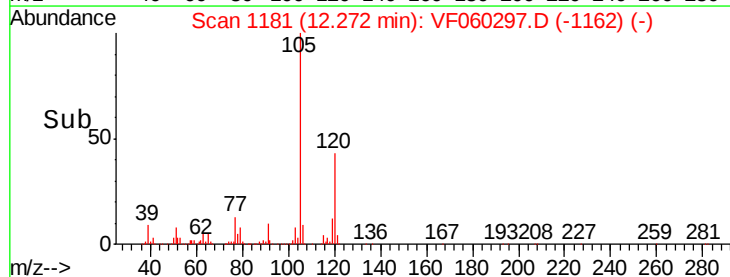
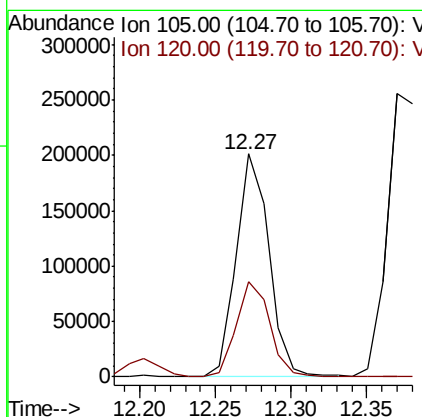
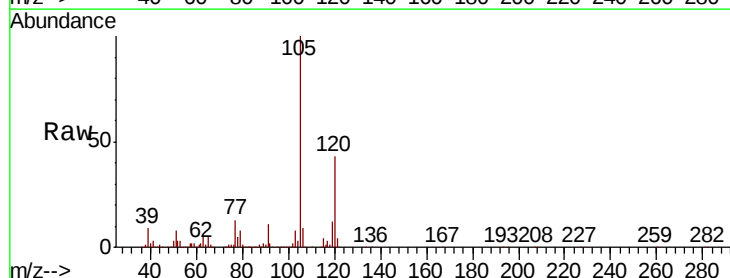
Manual Integrations
APPROVED

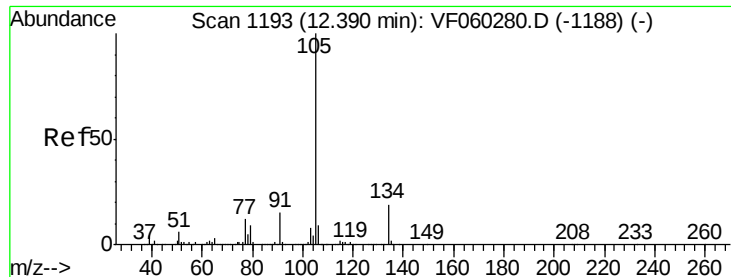
apatel
9/21/2018 11:04:55 AM



#84
1,2,4-Trimethylbenzene
Concen: 22.378 ug/l
RT: 12.27 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	303464		
120	43.0	22.4	67.0	





#85

sec-Butylbenzene

Concen: 21.823 ug/l

RT: 12.37 min Scan# 1191

Delta R.T. -0.02 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

ClientSampleId :

VF0920SBS01

Tot Ion:105 Resp: 418241

Ion Ratio Lower Upper

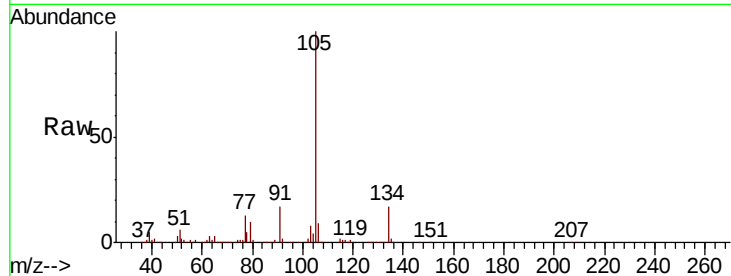
105 100

134 16.5 9.6 28.6

Manual Integrations
APPROVED

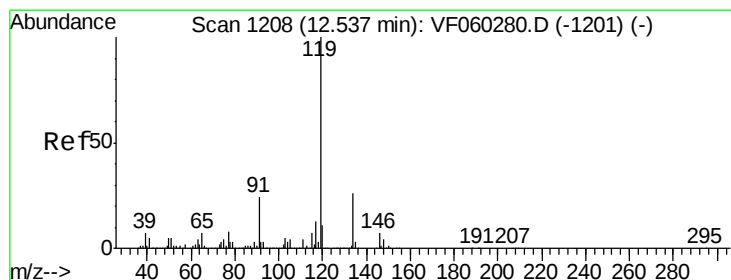
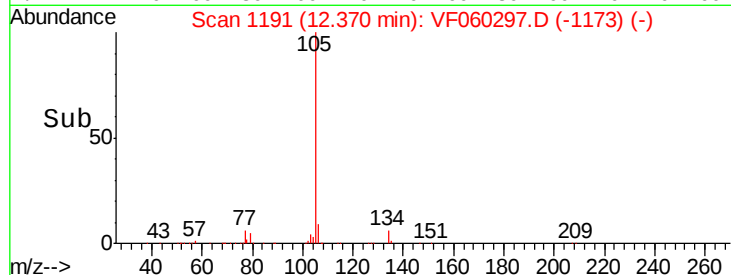
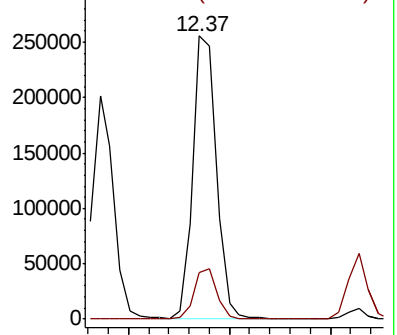
apatel

9/21/2018 11:04:55 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.989 ug/l

RT: 12.53 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

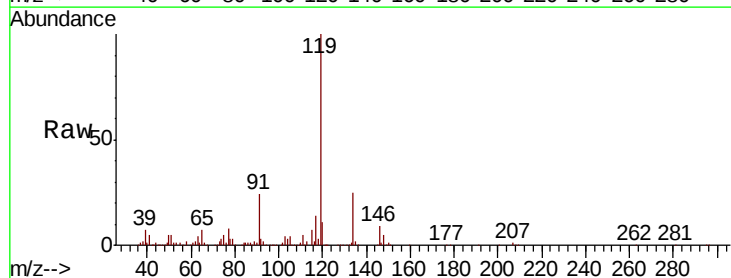
Tgt Ion:119 Resp: 332860

Ion Ratio Lower Upper

119 100

134 25.3 12.9 38.7

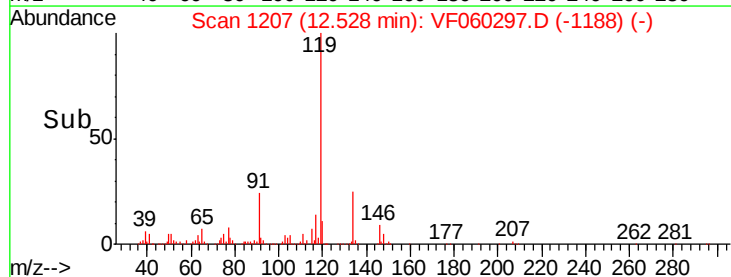
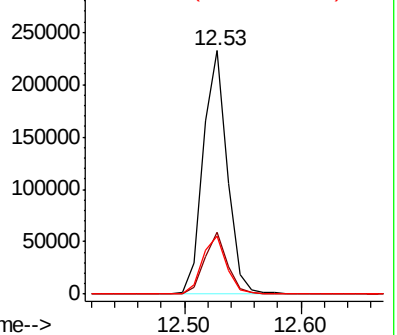
91 23.8 11.9 35.7

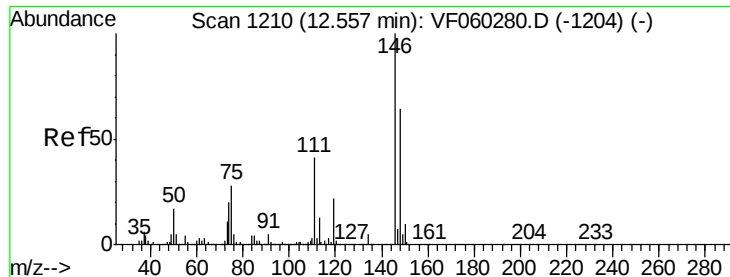


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





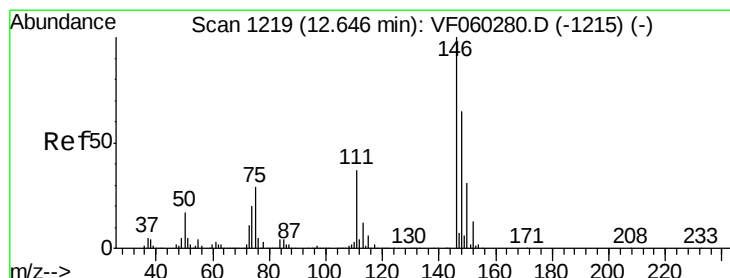
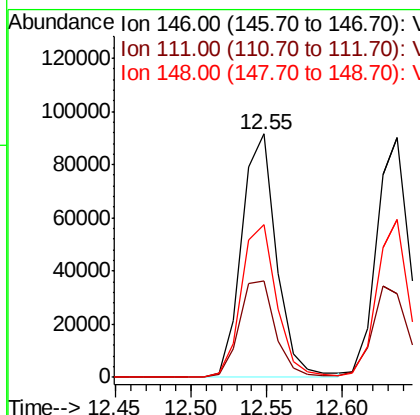
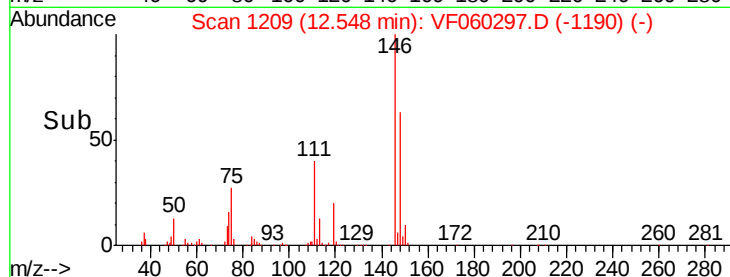
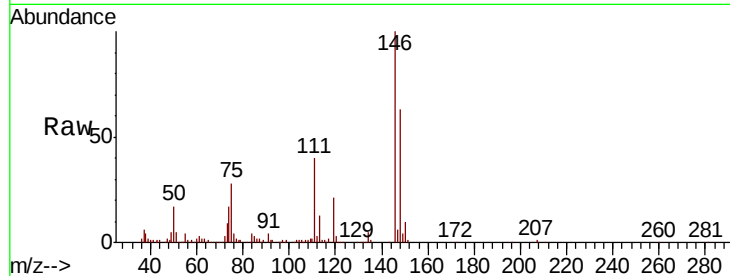
#87
 1,3-Dichlorobenzene
 Concen: 21.930 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0920SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.5	61.6
148	62.9	32.2	96.6

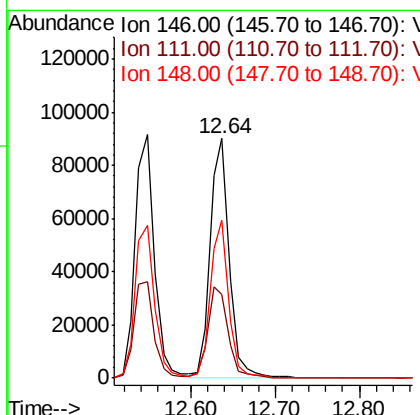
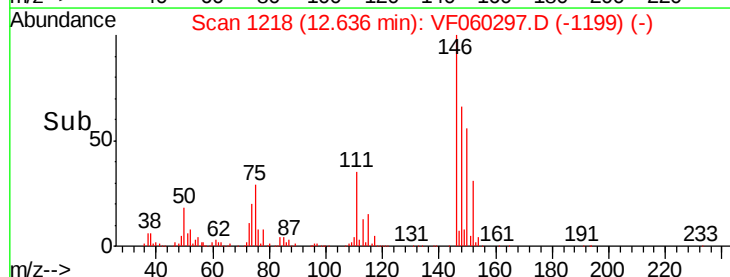
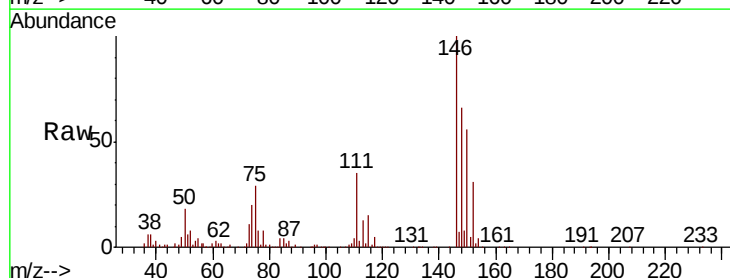
Manual Integrations
 APPROVED

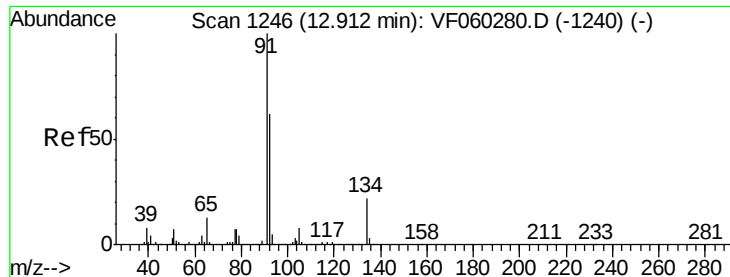
apatel
 9/21/2018 11:04:55 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.560 ug/l
 RT: 12.64 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.8	18.7	56.1
148	65.8	32.4	97.0





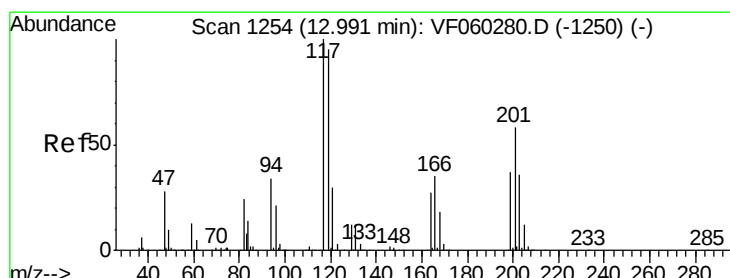
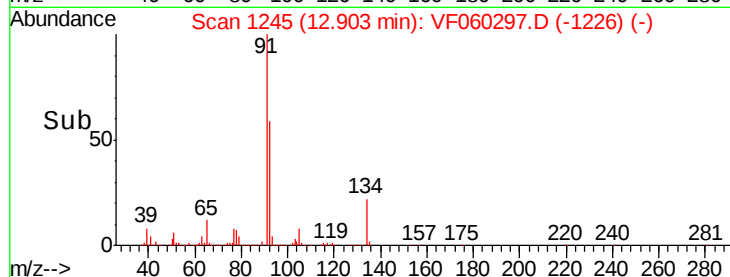
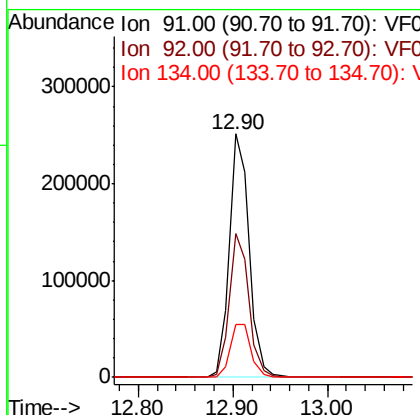
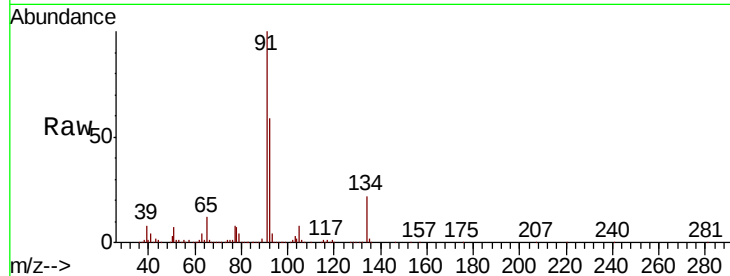
#89
n-Butylbenzene
Concen: 22.475 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Instrument :
MSVOA_F
ClientSampleId :
VF0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	365119		
92	59.3		31.1	93.5
134	21.9		11.0	33.0

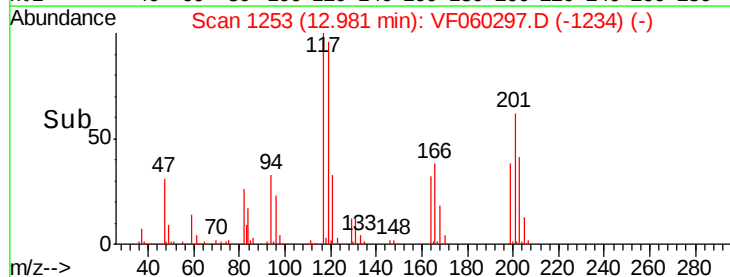
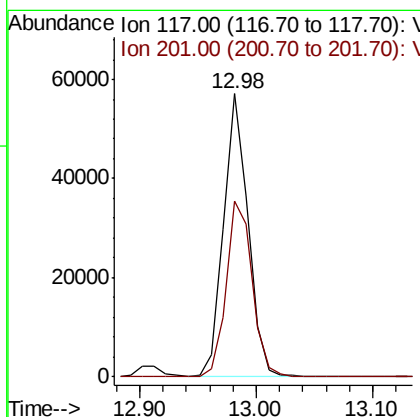
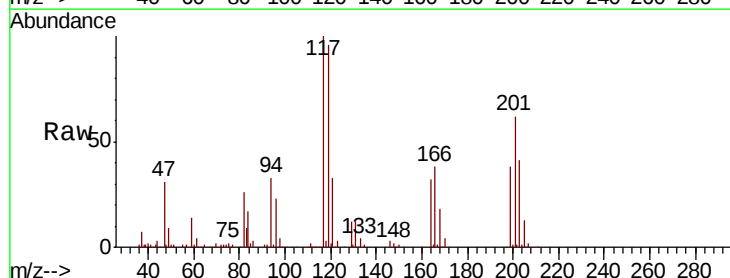
Manual Integrations
APPROVED

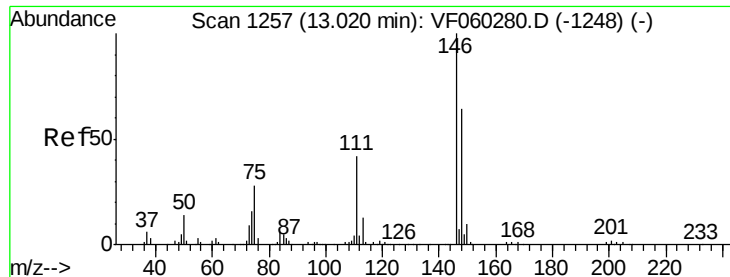
apatel
9/21/2018 11:04:55 AM



#90
Hexachloroethane
Concen: 22.013 ug/l
RT: 12.98 min Scan# 1253
Delta R.T. -0.01 min
Lab File: VF060297.D
Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	83389		
201	63.6		29.0	87.0





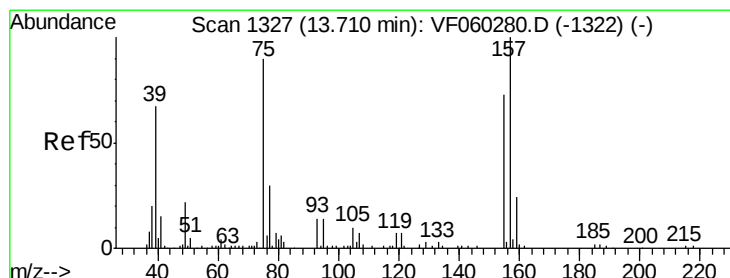
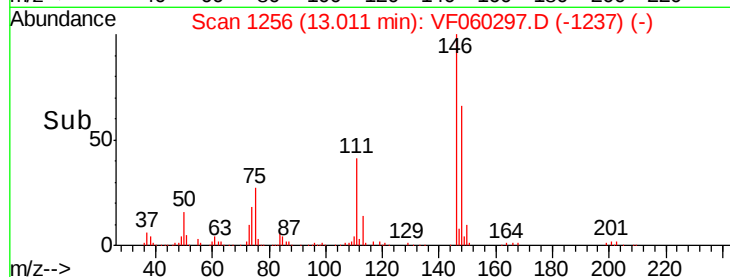
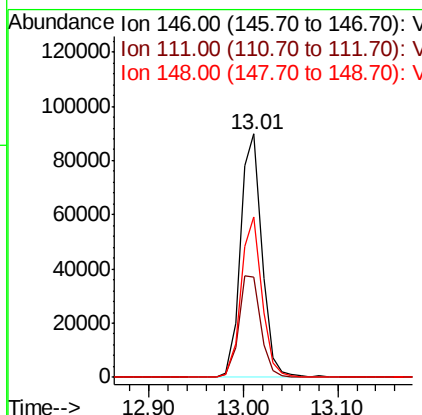
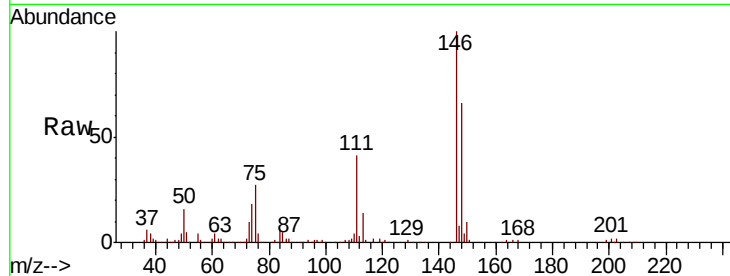
#91
 1,2-Dichlorobenzene
 Concen: 22.095 ug/l
 RT: 13.01 min Scan# 1256
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0920SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.9	62.8
148	65.8	31.9	95.9

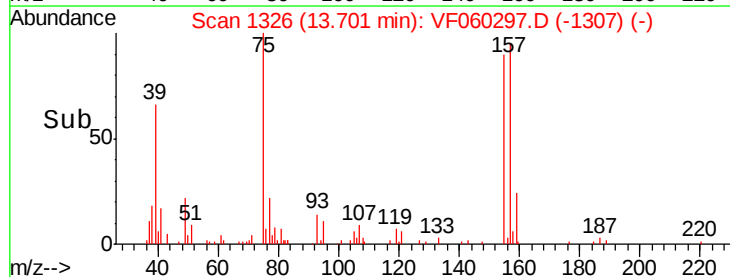
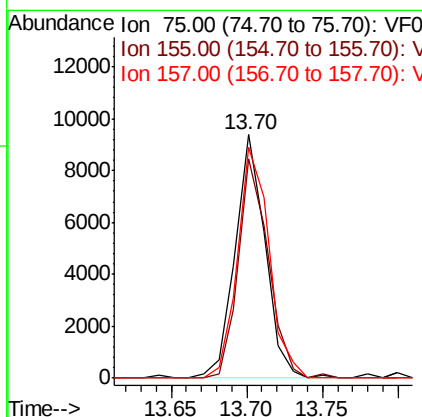
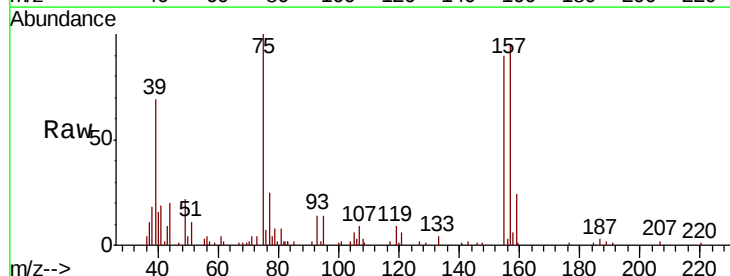
Manual Integrations
 APPROVED

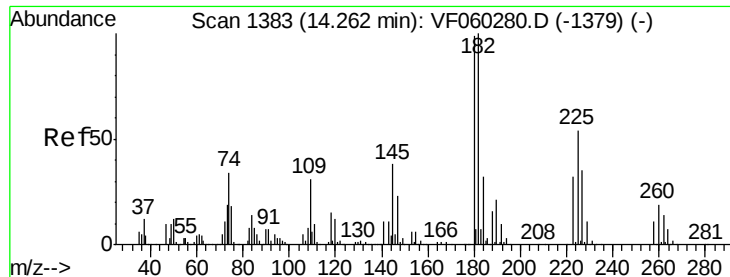
apatel
 9/21/2018 11:04:55 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.414 ug/l
 RT: 13.70 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.0	41.9	125.7
157	94.9	57.4	172.0





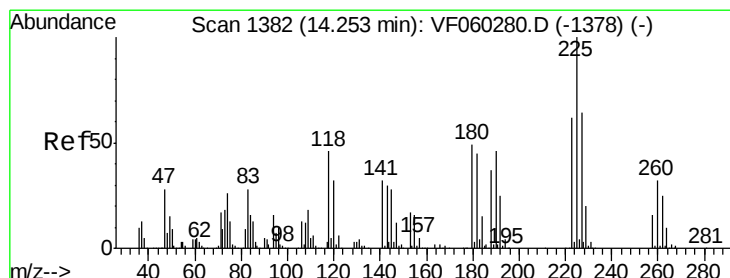
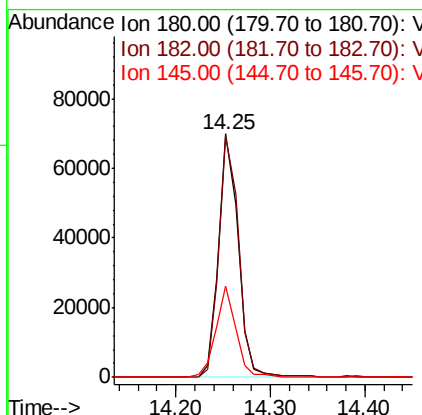
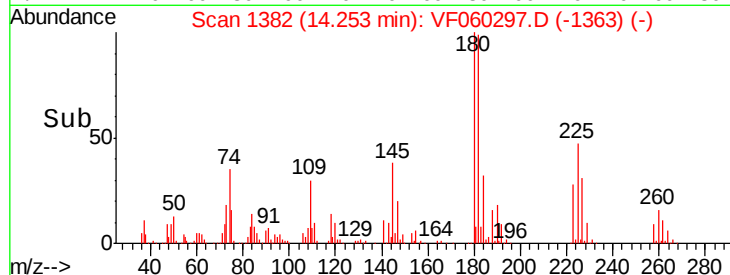
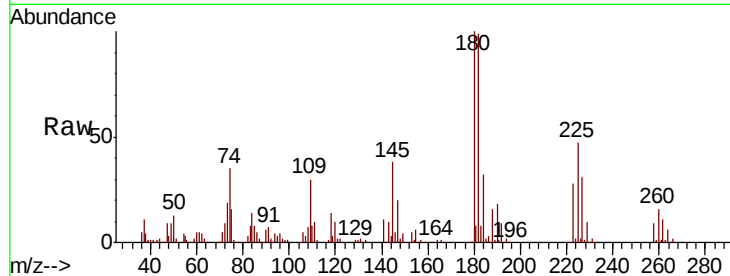
#93
 1,2,4-Trichlorobenzene
 Concen: 21.830 ug/l
 RT: 14.25 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0920SBS01

Tot Ion:	180	Resp:	101127
Ion Ratio	Lower	Upper	
180	100		
182	99.2	50.3	151.0
145	37.6	18.9	56.9

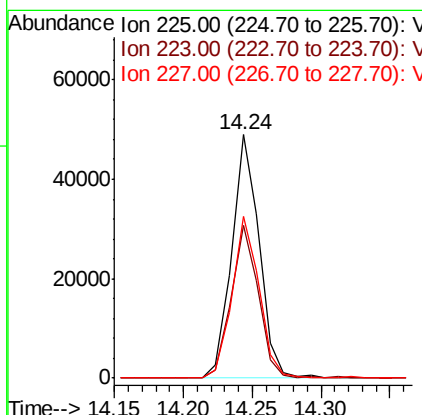
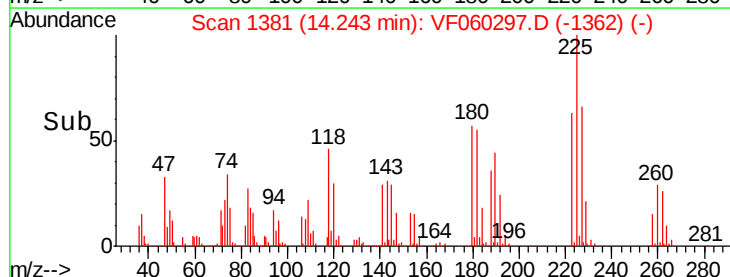
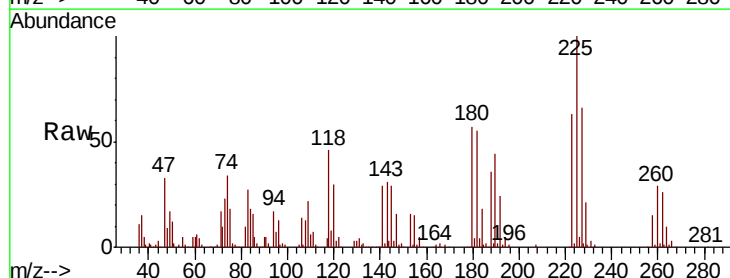
Manual Integrations
 APPROVED

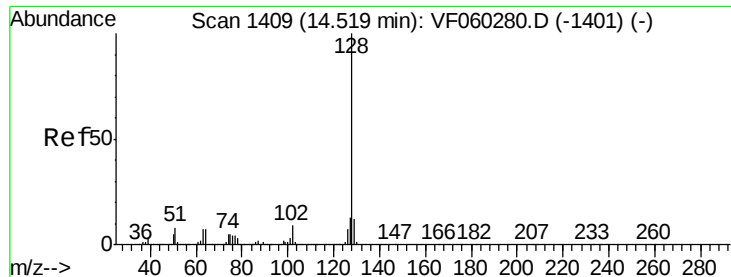
apatel
 9/21/2018 11:04:55 AM



#94
 Hexachlorobutadiene
 Concen: 21.614 ug/l
 RT: 14.24 min Scan# 1381
 Delta R.T. -0.01 min
 Lab File: VF060297.D
 Acq: 20 Sep 2018 12:22

Tgt Ion:	225	Resp:	67685
Ion Ratio	Lower	Upper	
225	100		
223	62.5	31.2	93.6
227	66.5	32.2	96.6





#95

Naphthalene

Concen: 20.699 ug/l

RT: 14.51 min Scan# 1408

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Instrument :

MSVOA_F

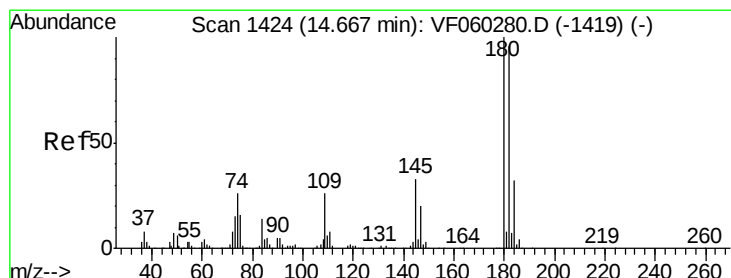
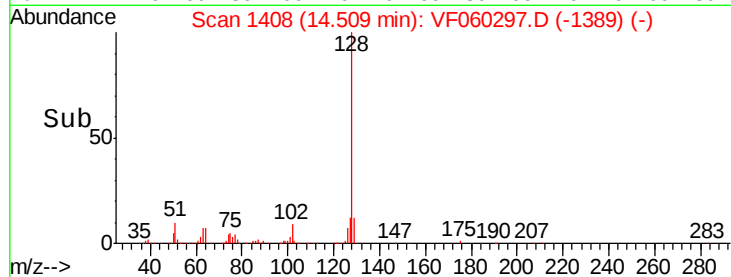
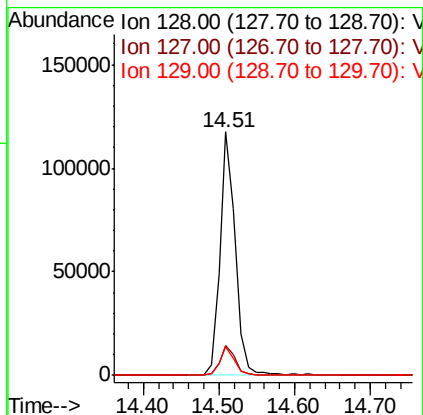
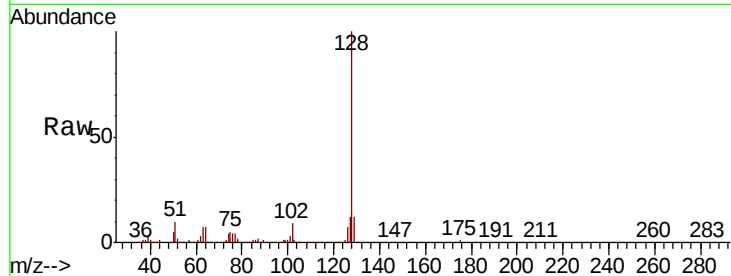
ClientSampleId :

VF0920SBS01

Tot Ion:	128	Resp:	168113
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.1	15.1
129	11.6	9.8	14.8

Manual Integrations
APPROVED

apatel
9/21/2018 11:04:55 AM



#96

1,2,3-Trichlorobenzene

Concen: 22.536 ug/l

RT: 14.66 min Scan# 1423

Delta R.T. -0.01 min

Lab File: VF060297.D

Acq: 20 Sep 2018 12:22

Tgt Ion:	180	Resp:	96464
Ion Ratio	Lower	Upper	
180	100		
182	93.1	47.8	143.4
145	31.9	16.4	49.1

