

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\
 Data File : VF060311.D
 Acq On : 21 Sep 2018 12:00
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 9/24/2018 12:51:14 PM

Quant Time: Sep 21 14:41:21 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	262791	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	426664	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	407694	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	206956	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	177569	50.18	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.36%	
35) Dibromofluoromethane	4.27	113	186596	49.06	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	98.12%	
50) Toluene-d8	7.69	98	504948	50.98	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	11.49	95	217469	50.79	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	194481	49.285	ug/l	94
3) Chloromethane	1.12	50	155423	43.401	ug/l	100
4) Vinyl Chloride	1.17	62	163065	44.680	ug/l	95
5) Bromomethane	1.34	94	109944	53.962	ug/l	99
6) Chloroethane	1.42	64	83968	48.309	ug/l	94
7) Trichlorofluoromethane	1.53	101	342376	50.354	ug/l	99
8) Diethyl Ether	1.70	74	55346	48.925	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	1.88	101	169883	46.980	ug/l	97
10) Methyl Iodide	1.95	142	279449	47.923	ug/l	99
11) Tert butyl alcohol	2.66	59	58794	301.131	ug/l	98
12) 1,1-Dichloroethene	1.84	96	142177	47.543	ug/l	97
13) Acrolein	2.07	56	18984	305.171	ug/l	81
14) Allyl chloride	2.18	41	260467	49.911	ug/l	98
15) Acrylonitrile	3.06	53	114493	229.094	ug/l	98
16) Acetone	2.33	43	291659	292.673	ug/l	100
17) Carbon Disulfide	1.88	76	390177	52.192	ug/l	97
18) Methyl Acetate	2.44	43	87964	52.986	ug/l	95
19) Methyl tert-butyl Ether	2.52	73	376730	50.532	ug/l	97
20) Methylene Chloride	2.27	84	143853	54.046	ug/l	96
21) trans-1,2-Dichloroethene	2.40	96	148093	47.946	ug/l	98
22) Diisopropyl ether	2.91	45	492323	50.001	ug/l	98
23) Vinyl Acetate	3.31	43	912517	235.970	ug/l	100
24) 1,1-Dichloroethane	2.99	63	309084	48.403	ug/l	99
25) 2-Butanone	4.49	43	356615	265.866	ug/l	94
26) 2,2-Dichloropropane	3.74	77	170945	46.918	ug/l	99
27) cis-1,2-Dichloroethene	3.62	96	187521	46.213	ug/l	90
28) Bromochloromethane	3.87	49	119443	48.044	ug/l	90
29) Tetrahydrofuran	4.23	42	115222	234.572	ug/l	97
30) Chloroform	4.01	83	353981	45.942	ug/l	93
31) Cyclohexane	3.85	56	232616	43.127	ug/l	97
32) 1,1,1-Trichloroethane	4.26	97	302984	49.836	ug/l	99
36) 1,1-Dichloropropene	4.44	75	264533	49.705	ug/l	96
37) Ethyl Acetate	4.26	43	103621	46.015	ug/l	85
38) Carbon Tetrachloride	4.15	117	287512m	50.296	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\
 Data File : VF060311.D
 Acq On : 21 Sep 2018 12:00
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 9/24/2018 12:51:14 PM

Quant Time: Sep 21 14:41:21 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	278343	48.256	ug/l	96
40) Benzene	4.79	78	581643	48.199	ug/l	99
41) Methacrylonitrile	4.90	41	59310	48.538	ug/l	97
42) 1,2-Dichloroethane	5.10	62	235658	53.054	ug/l	98
43) Isopropyl Acetate	7.09	43	139902	51.606	ug/l #	87
44) Trichloroethene	5.65	130	176519	49.150	ug/l	100
45) 1,2-Dichloropropane	6.38	63	158231	50.664	ug/l	99
46) Dibromomethane	6.23	93	112552	50.416	ug/l	85
47) Bromodichloromethane	6.53	83	272004	50.701	ug/l	99
48) Methyl methacrylate	6.85	41	99002	52.023	ug/l	95
49) 1,4-Dioxane	6.84	88	17683	1040.080	ug/l	95
51) 4-Methyl-2-Pentanone	8.39	43	645296	308.834	ug/l	98
52) Toluene	7.76	92	376775	49.353	ug/l	97
53) t-1,3-Dichloropropene	8.41	75	217321	50.219	ug/l	98
54) cis-1,3-Dichloropropene	7.43	75	281859	51.702	ug/l	98
55) 1,1,2-Trichloroethane	8.62	97	116358	50.217	ug/l	95
56) Ethyl methacrylate	8.74	69	154099	55.067	ug/l	96
57) 1,3-Dichloropropane	8.98	76	205889	53.665	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.76	63	63726	257.595	ug/l	100
59) 2-Hexanone	9.61	43	484758	325.841	ug/l	96
60) Dibromochloromethane	8.84	129	177987	51.538	ug/l	98
61) 1,2-Dibromoethane	9.12	107	135193	52.396	ug/l	98
64) Tetrachloroethene	8.29	164	156741	42.410	ug/l	97
65) Chlorobenzene	9.92	112	429379	46.469	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.06	131	177586	46.311	ug/l	97
67) Ethyl Benzene	10.03	91	766040	44.838	ug/l	98
68) m/p-Xylenes	10.25	106	534344	90.528	ug/l	95
69) o-Xylene	10.81	106	302535	45.697	ug/l	100
70) Styrene	10.88	104	438823	47.000	ug/l	96
71) Bromoform	10.87	173	101145	48.027	ug/l #	92
73) Isopropylbenzene	11.22	105	860592	46.321	ug/l	98
74) N-amyl acetate	11.46	43	226440	57.155	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	163861	49.766	ug/l	95
76) 1,2,3-Trichloropropane	11.87	75	116575	49.447	ug/l	84
77) Bromobenzene	11.58	156	179730	44.888	ug/l	98
78) n-propylbenzene	11.67	91	1041595	58.268	ug/l	99
79) 2-Chlorotoluene	11.80	91	600260	47.896	ug/l	98
80) 1,3,5-Trimethylbenzene	11.90	105	695283	46.490	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	61916m	49.696	ug/l	
82) 4-Chlorotoluene	11.98	91	601032	47.714	ug/l	99
83) tert-Butylbenzene	12.20	119	738400	48.705	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	725150	47.750	ug/l	98
85) sec-Butylbenzene	12.37	105	972064	56.082	ug/l	95
86) p-Isopropyltoluene	12.53	119	815511	59.291	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	361805	48.356	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	348298	47.097	ug/l	99
89) n-Butylbenzene	12.90	91	858756	55.424	ug/l	99
90) Hexachloroethane	12.98	117	206577	48.694	ug/l	99
91) 1,2-Dichlorobenzene	13.01	146	337536	47.291	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.70	75	29693	48.032	ug/l	92

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF092118\
Data File : VF060311.D
Acq On : 21 Sep 2018 12:00
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00/5mL/MSVOA F/SOIL
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

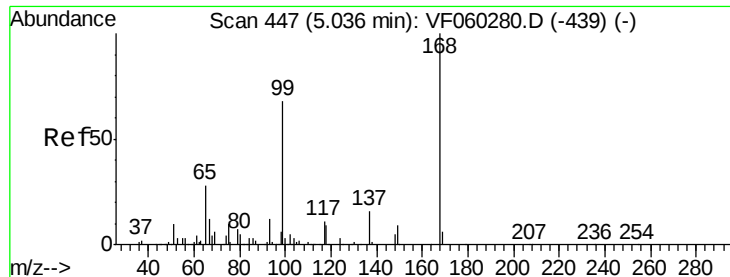
Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM

Quant Time: Sep 21 14:41:21 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	244623	47.154	ug/l	95
94) Hexachlorobutadiene	14.24	225	164237	46.832	ug/l	98
95) Naphthalene	14.51	128	468913	51.555	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	238398	49.732	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: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 262791

Ion Ratio Lower Upper

168 100

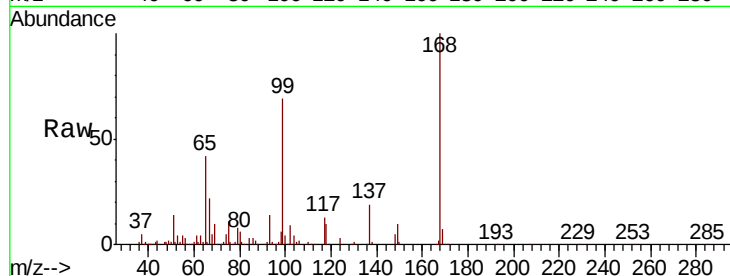
99 69.3 54.8 82.2

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

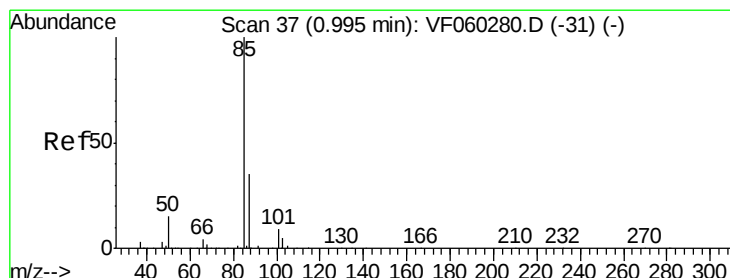
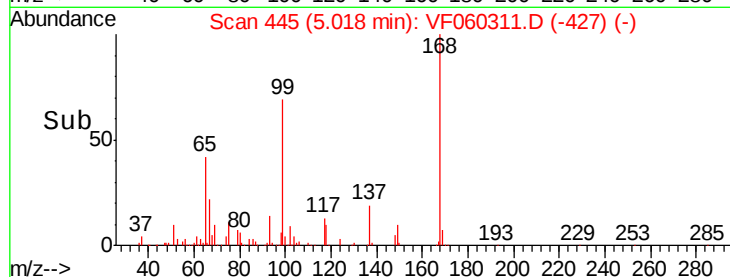
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 49.285 ug/l

RT: 0.99 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060311.D

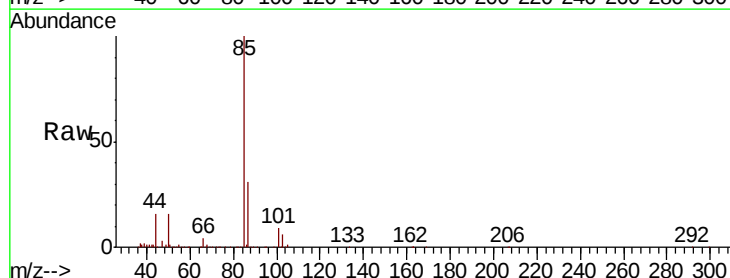
Acq: 21 Sep 2018 12:00

Tgt Ion: 85 Resp: 194481

Ion Ratio Lower Upper

85 100

87 31.3 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

80000

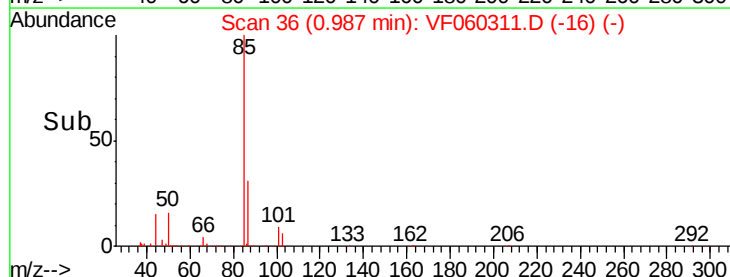
60000

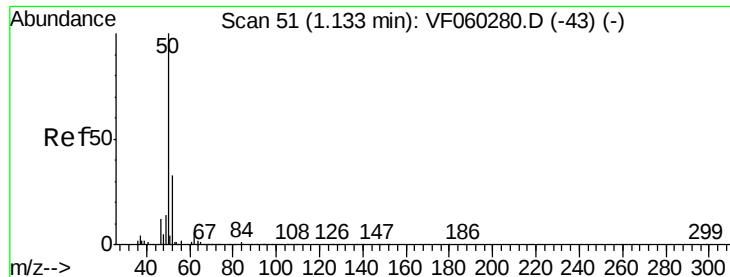
40000

20000

0

Time-->





#3

Chloromethane

Concen: 43.401 ug/l

RT: 1.12 min Scan# 50

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 155423

Ion Ratio Lower Upper

50 100

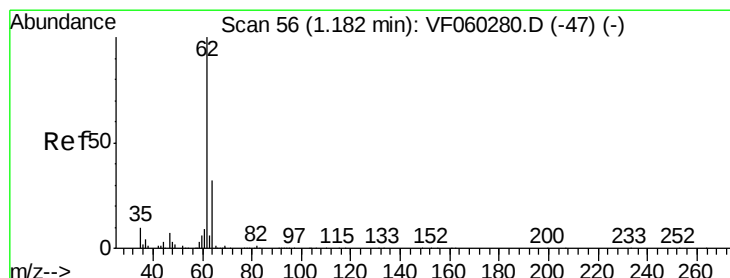
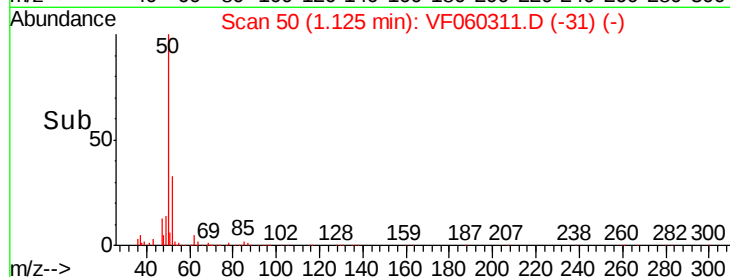
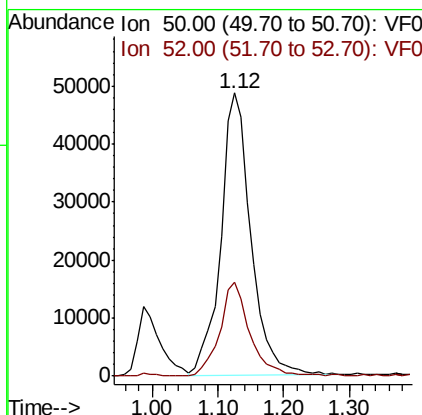
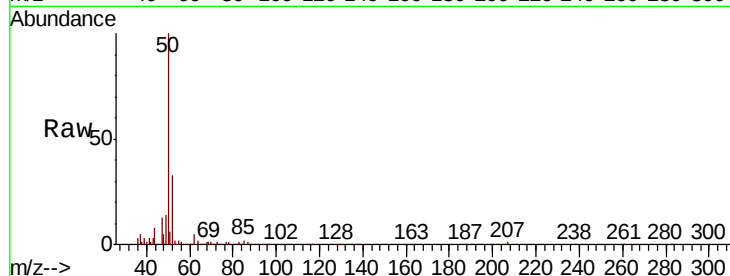
52 33.2 26.5 39.7

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



#4

Vinyl Chloride

Concen: 44.680 ug/l

RT: 1.17 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF060311.D

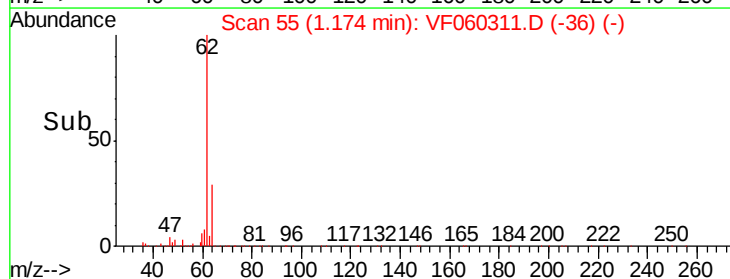
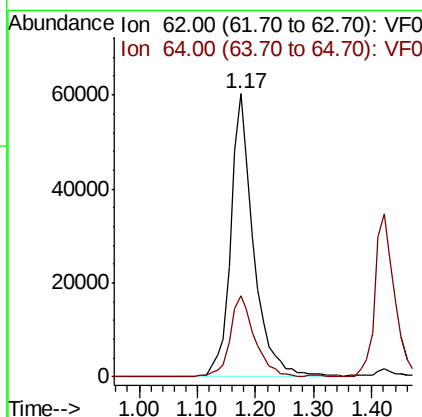
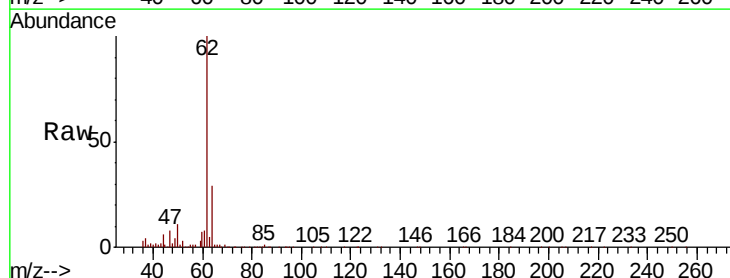
Acq: 21 Sep 2018 12:00

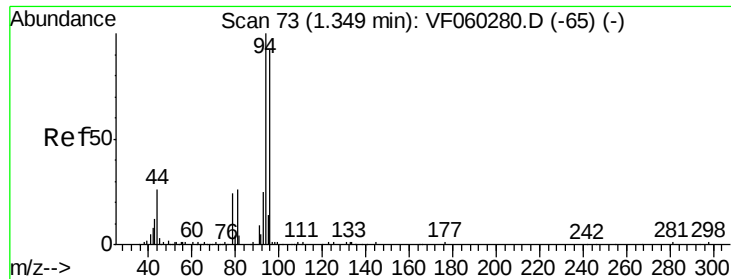
Tgt Ion: 62 Resp: 163065

Ion Ratio Lower Upper

62 100

64 28.8 25.2 37.8





#5

Bromomethane

Concen: 53.962 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 109944

Ion Ratio Lower Upper

94 100

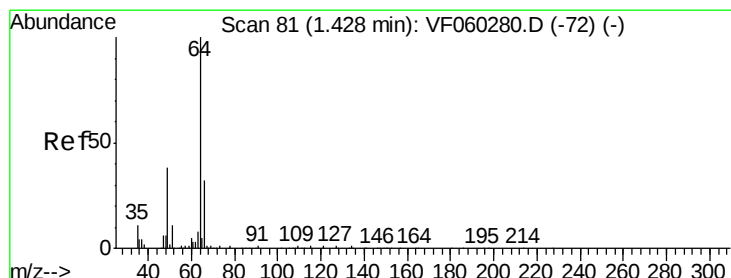
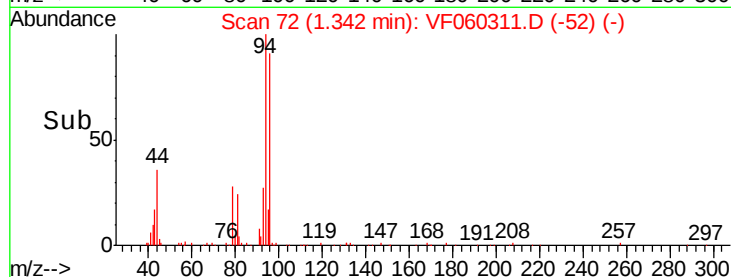
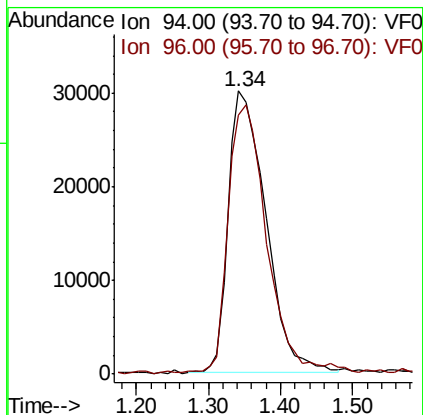
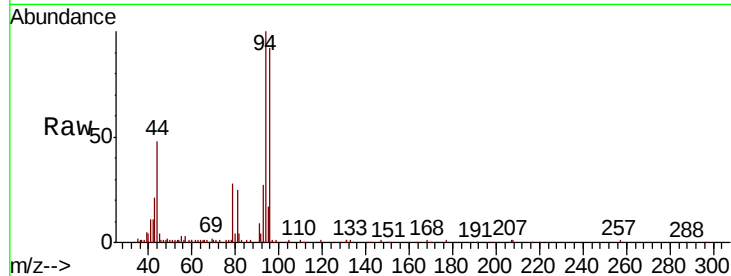
96 91.7 73.9 110.9

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



#6

Chloroethane

Concen: 48.309 ug/l

RT: 1.42 min Scan# 80

Delta R.T. -0.01 min

Lab File: VF060311.D

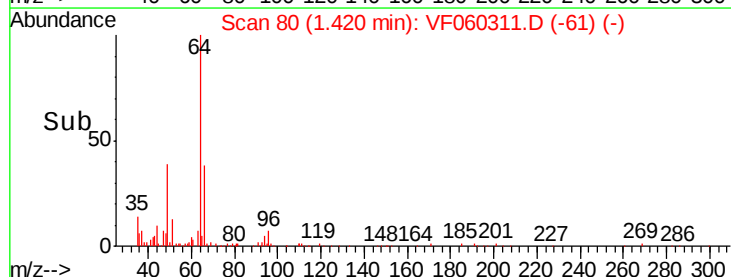
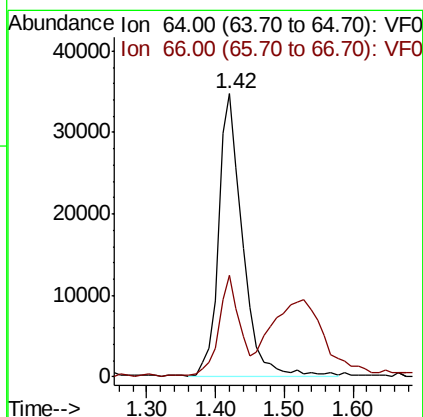
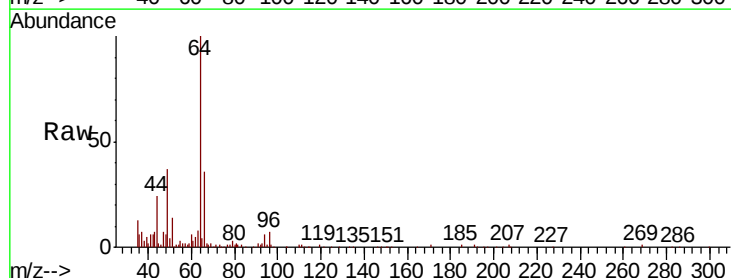
Acq: 21 Sep 2018 12:00

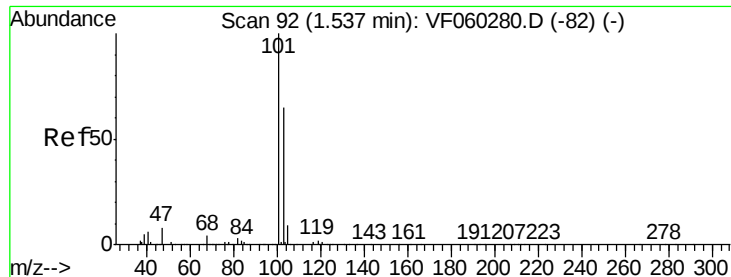
Tgt Ion: 64 Resp: 83968

Ion Ratio Lower Upper

64 100

66 36.0 26.2 39.2





#7

Trichlorofluoromethane

Concen: 50.354 ug/l

RT: 1.53 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:101 Resp: 342376

Ion Ratio Lower Upper

101 100

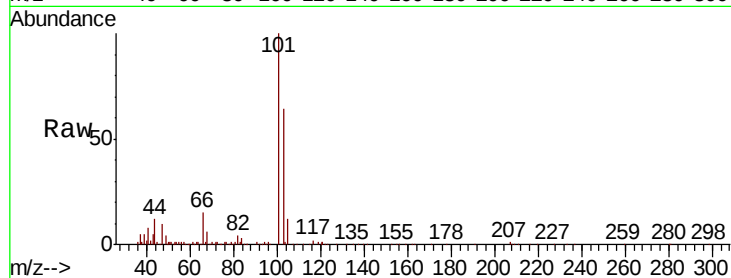
103 64.4 52.0 78.0

Manual Integrations

APPROVED

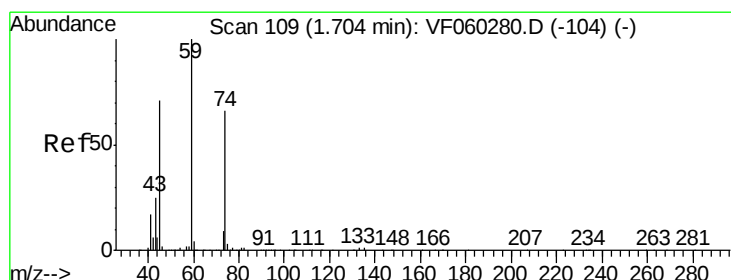
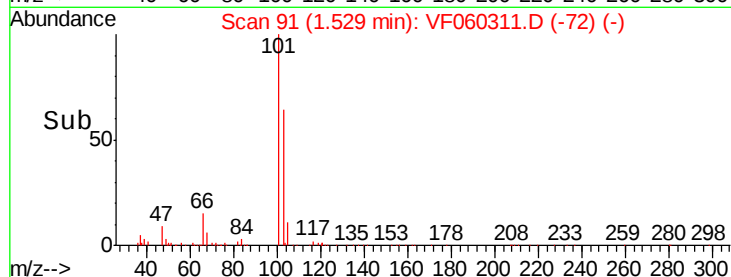
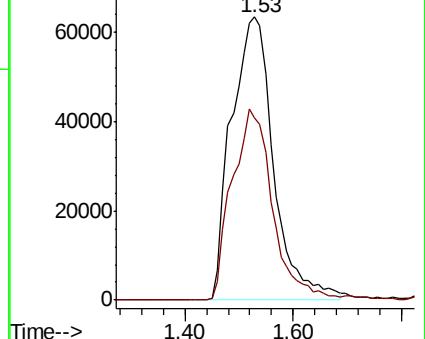
apatel

9/24/2018 12:51:14 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 48.925 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.01 min

Lab File: VF060311.D

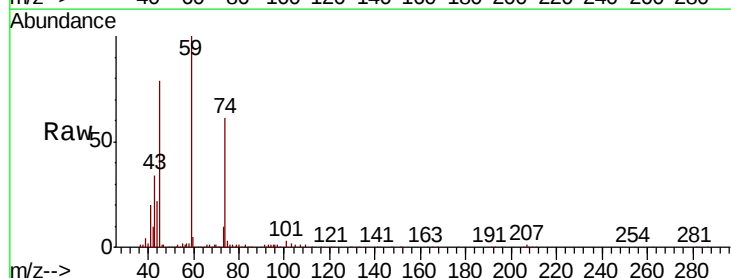
Acq: 21 Sep 2018 12:00

Tgt Ion: 74 Resp: 55346

Ion Ratio Lower Upper

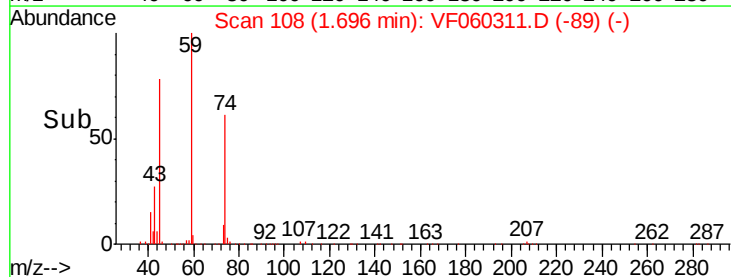
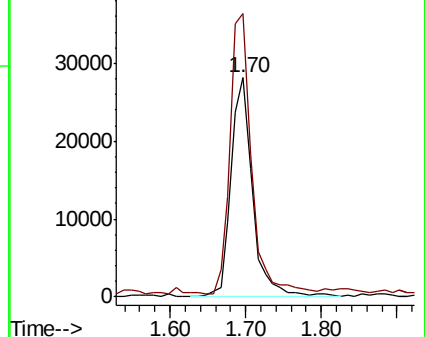
74 100

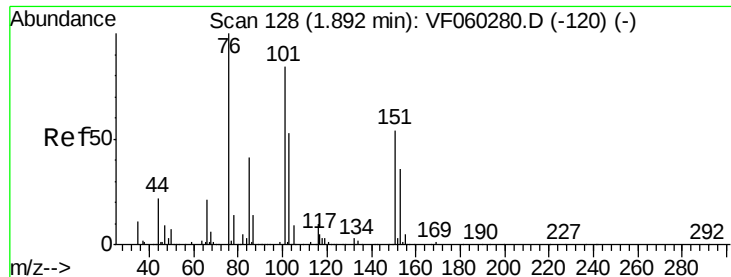
45 129.3 53.9 161.7



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.980 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

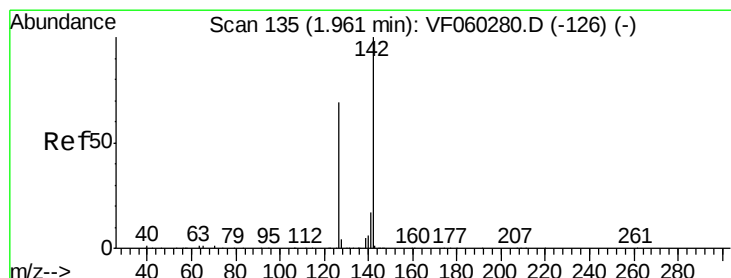
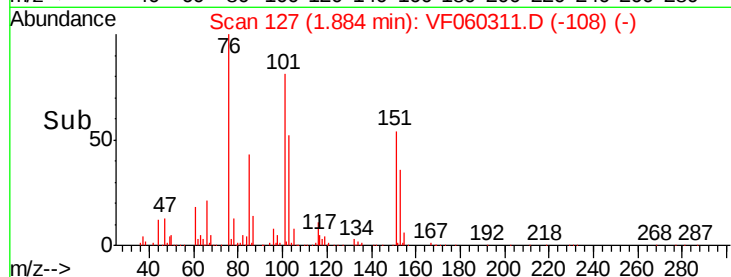
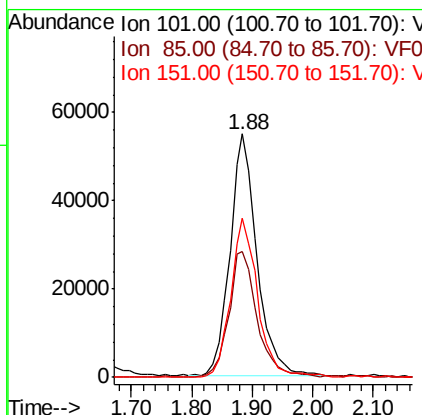
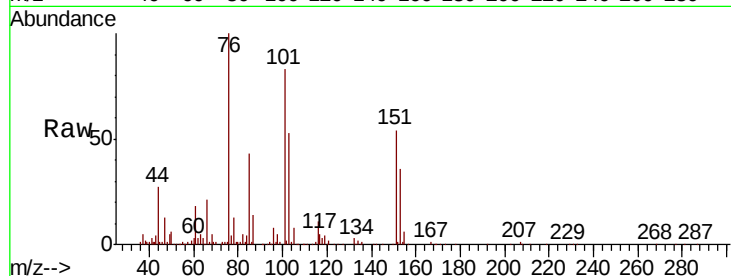
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	169883
Ion Ratio	Lower	Upper	
101	100		
85	51.8	38.7	58.1
151	65.1	50.8	76.2

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#10

Methyl Iodide

Concen: 47.923 ug/l

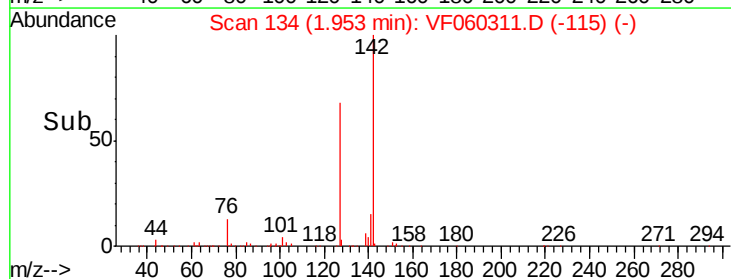
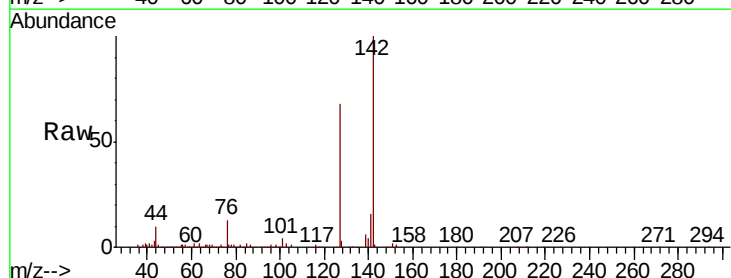
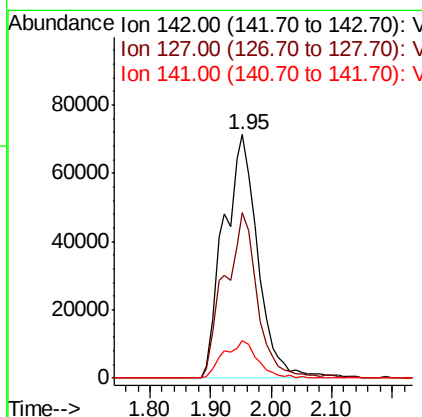
RT: 1.95 min Scan# 134

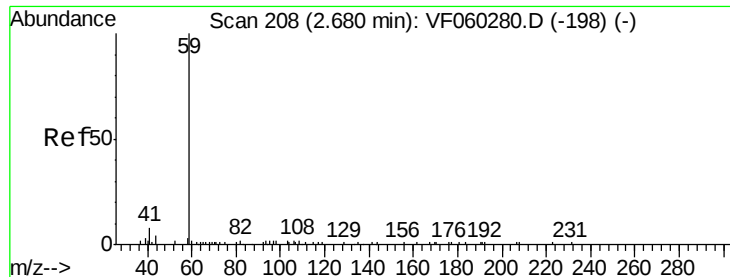
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	142	Resp:	279449
Ion Ratio	Lower	Upper	
142	100		
127	68.2	55.4	83.0
141	15.6	13.3	19.9





#11

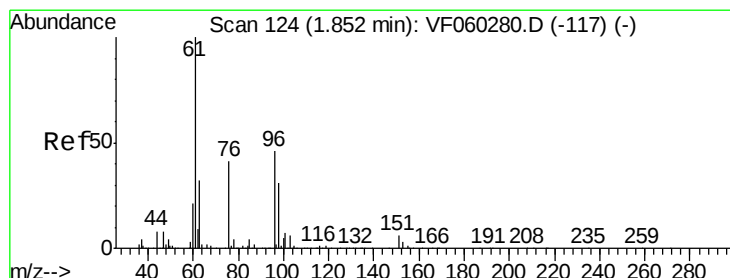
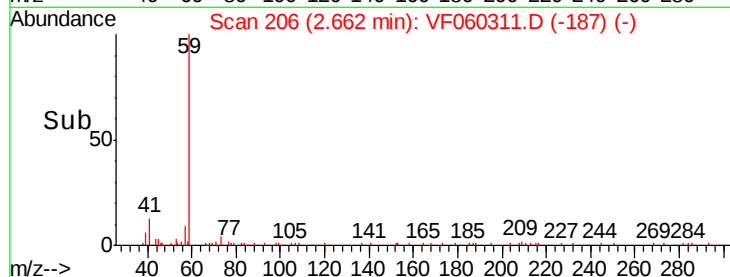
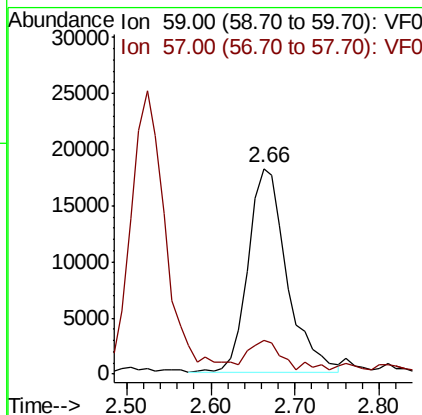
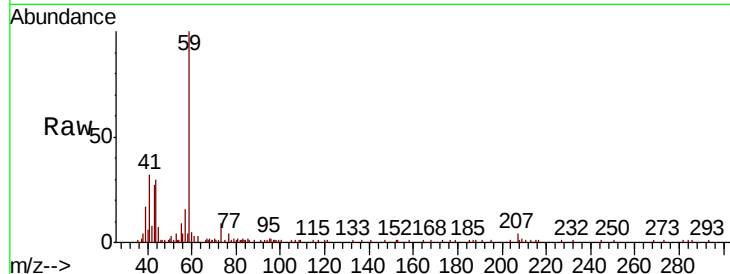
Tert butyl alcohol
Concen: 301.131 ug/l
RT: 2.66 min Scan# 206
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	16.2	12.4	18.6

Manual Integrations
APPROVED

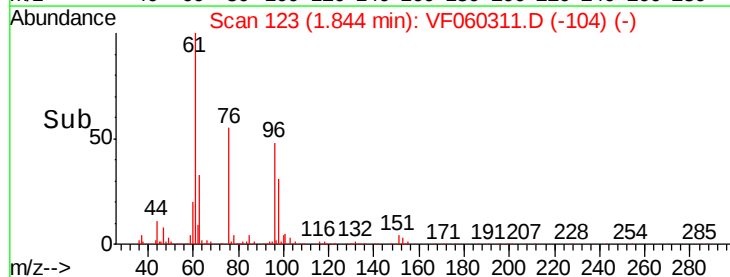
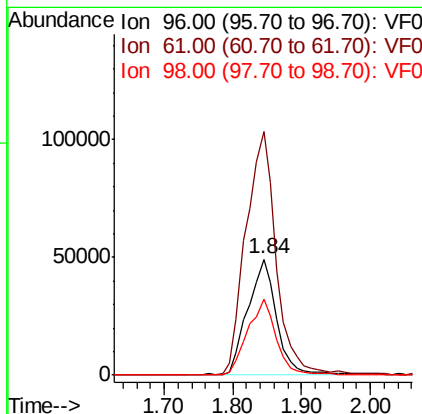
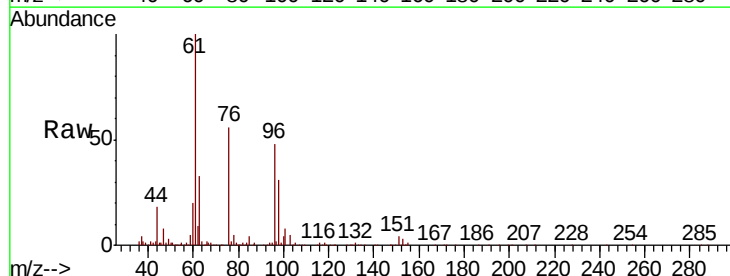
apatel
9/24/2018 12:51:14 PM

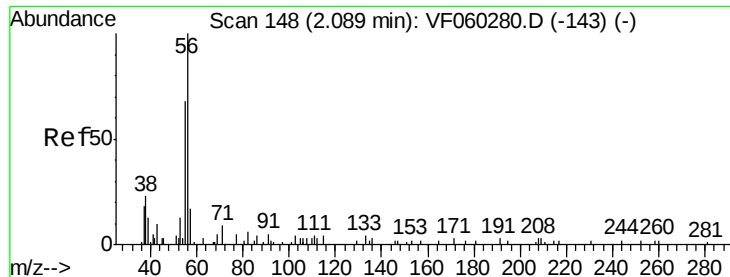


#12

1,1-Dichloroethene
Concen: 47.543 ug/l
RT: 1.84 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	210.3	172.2	258.2
98	66.0	54.1	81.1





#13

Acrolein

Concen: 305.171 ug/l

RT: 2.07 min Scan# 146

Delta R.T. -0.02 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tot Ion: 56 Resp: 18984

Ion Ratio Lower Upper

56 100

55 70.0 69.9 104.9

Instrument :

MSVOA_F

ClientSampleId :

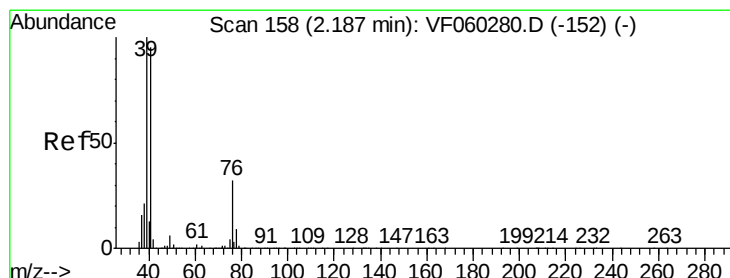
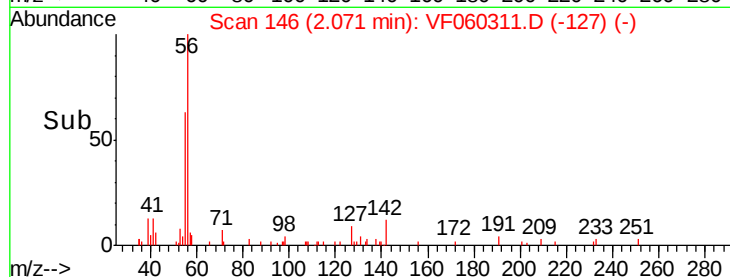
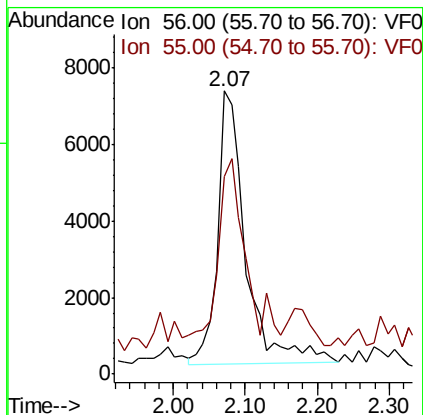
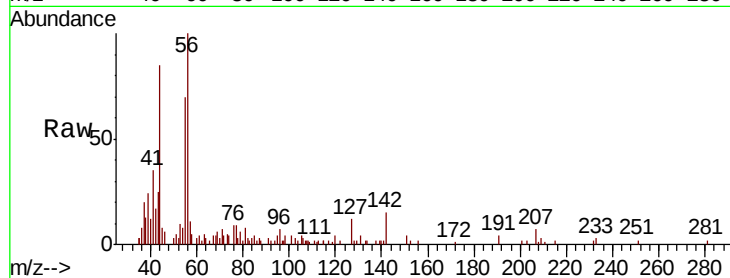
VSTDCCC050

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



#14

Allyl chloride

Concen: 49.911 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

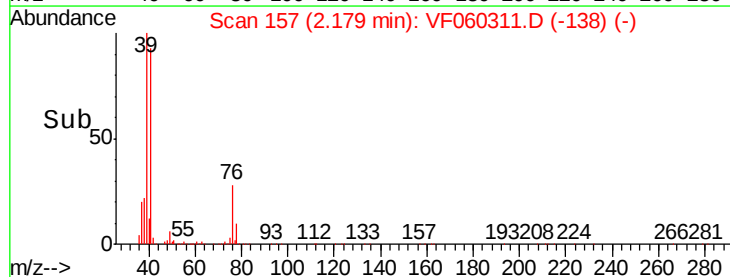
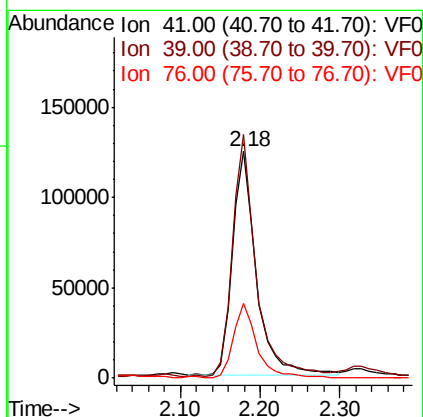
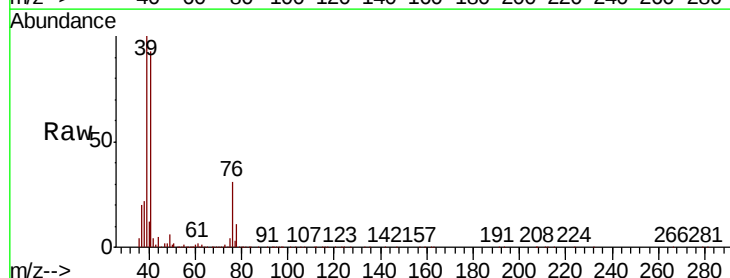
Tgt Ion: 41 Resp: 260467

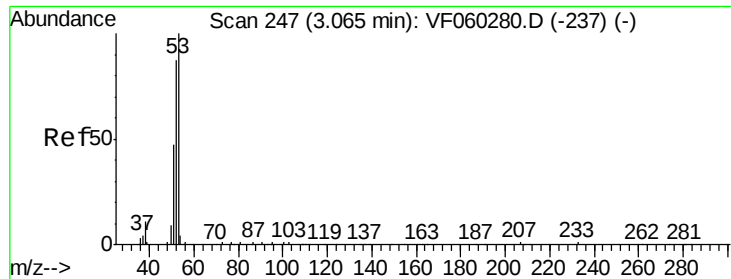
Ion Ratio Lower Upper

41 100

39 107.3 84.8 127.2

76 32.8 27.4 41.2





#15

Acrylonitrile

Concen: 229.094 ug/l

RT: 3.06 min Scan# 246

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

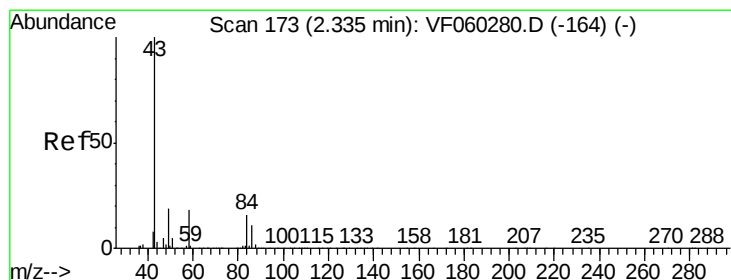
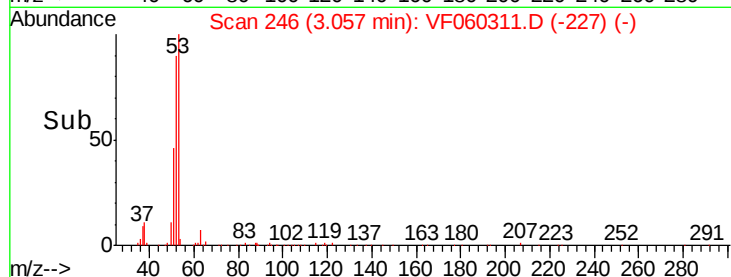
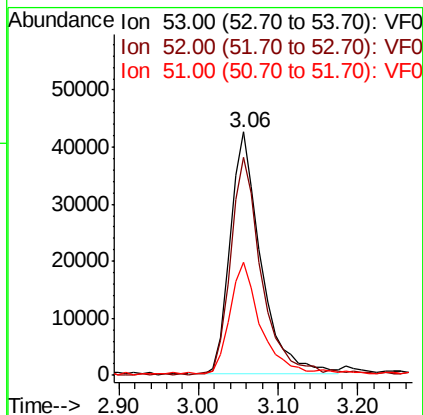
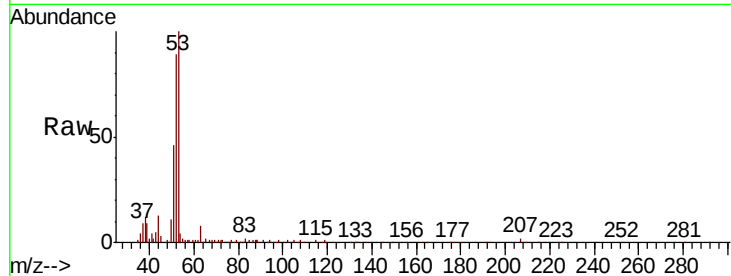
VSTDCCC050

Tot Ion:	53	Resp:	114493
Ion Ratio		Lower	Upper
53	100		
52	89.4	69.5	104.3
51	46.2	38.1	57.1

Manual Integrations
APPROVED

apatel

9/24/2018 12:51:14 PM



#16

Acetone

Concen: 292.673 ug/l

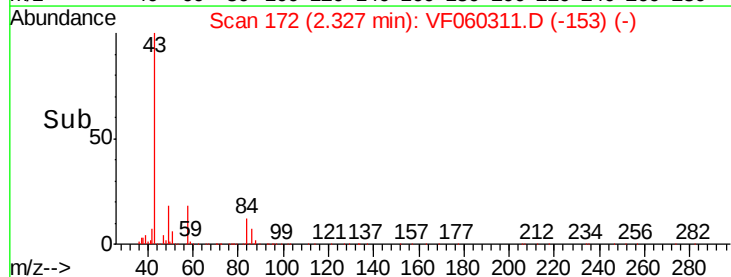
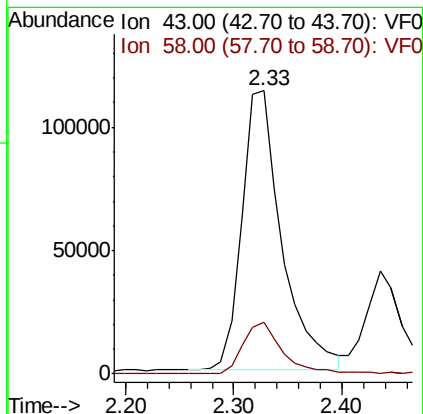
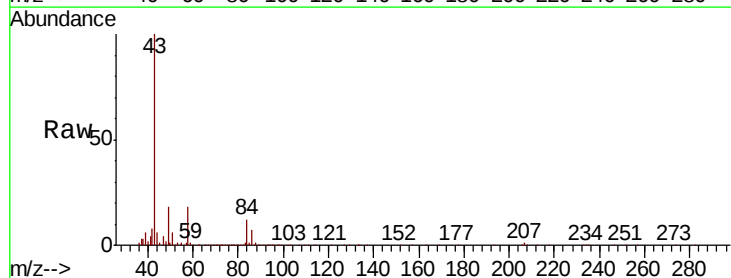
RT: 2.33 min Scan# 172

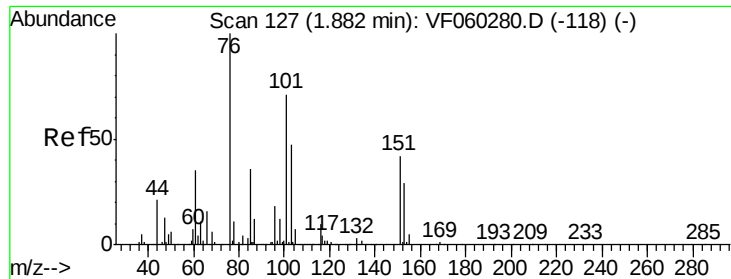
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	43	Resp:	291659
Ion Ratio		Lower	Upper
43	100		
58	18.1	14.5	21.7





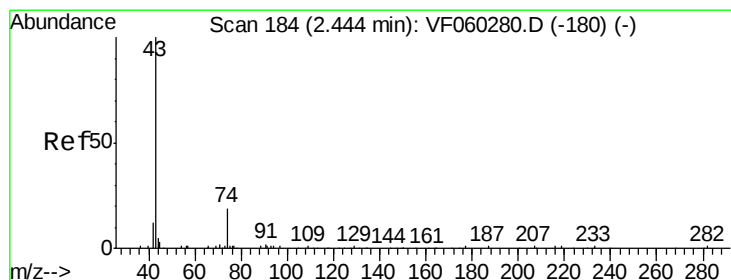
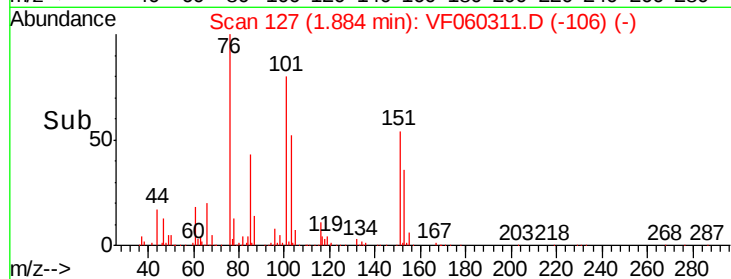
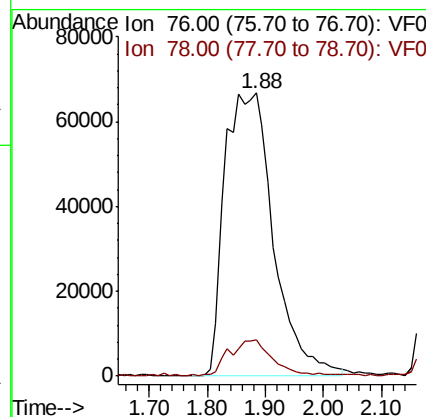
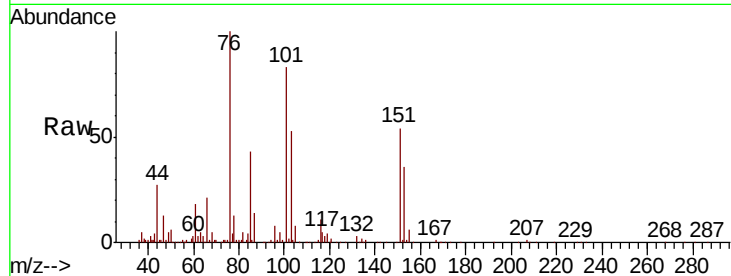
#17
Carbon Disulfide
Concen: 52.192 ug/l
RT: 1.88 min Scan# 127
Delta R.T. 0.00 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
76	100			
78	12.8	9.4	14.0	

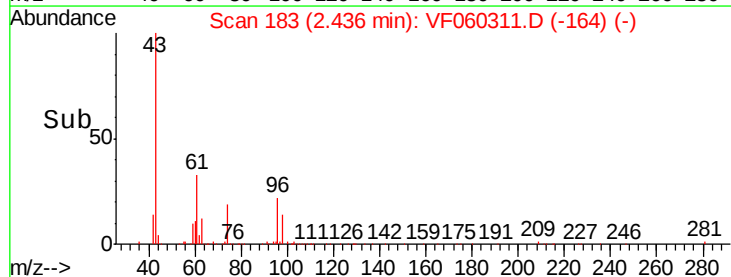
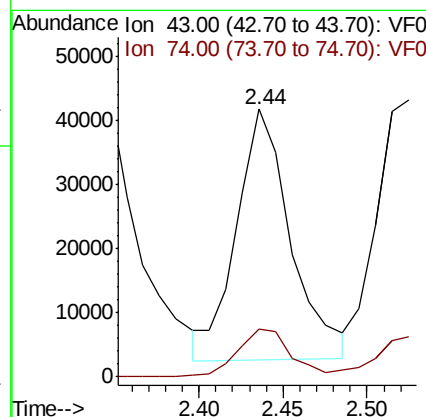
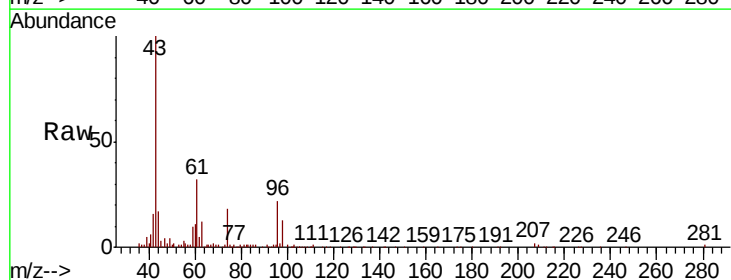
Manual Integrations
APPROVED

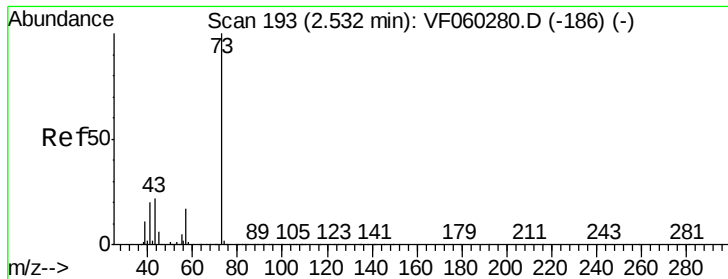
apatel
9/24/2018 12:51:14 PM



#18
Methyl Acetate
Concen: 52.986 ug/l
RT: 2.44 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
74	18.0	12.7	19.1	





#19

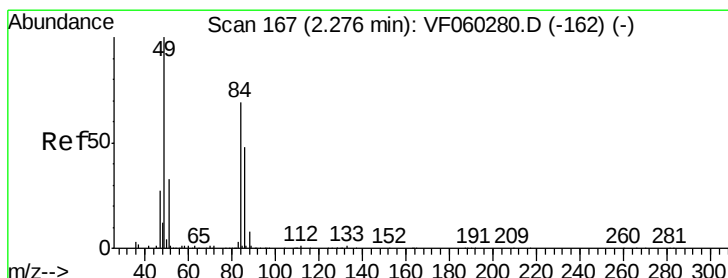
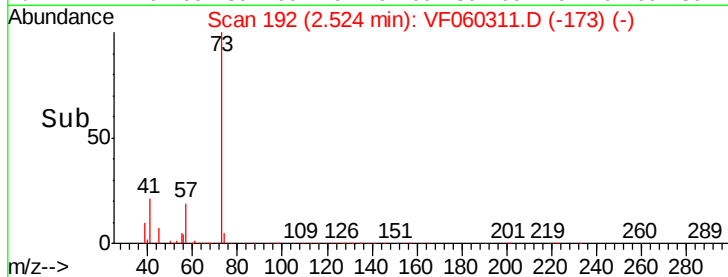
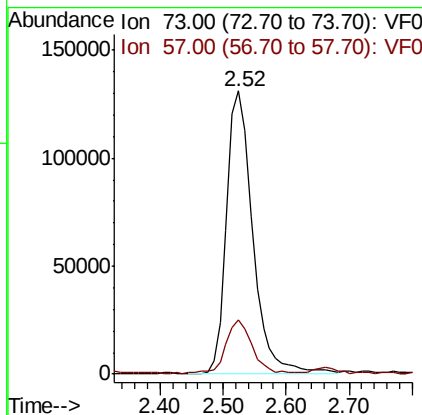
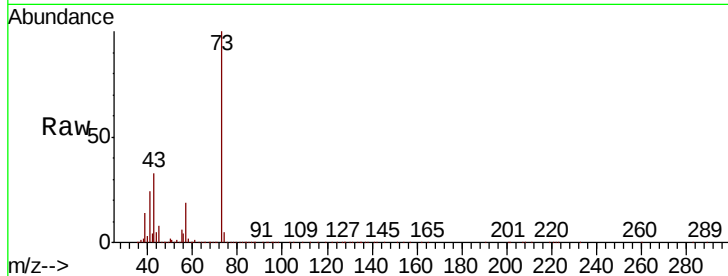
Methyl tert-butyl Ether
 Concen: 50.532 ug/l
 RT: 2.52 min Scan# 192
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.2	14.5	21.7

Manual Integrations
 APPROVED

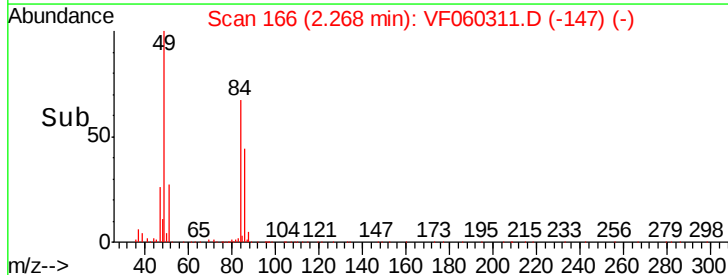
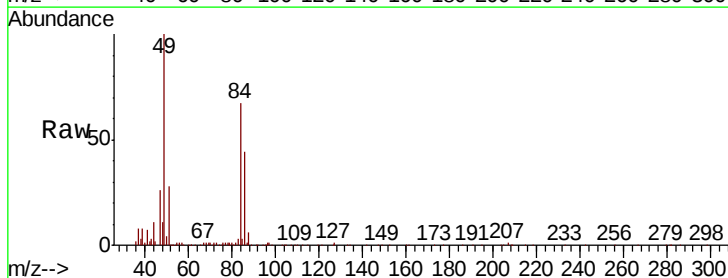
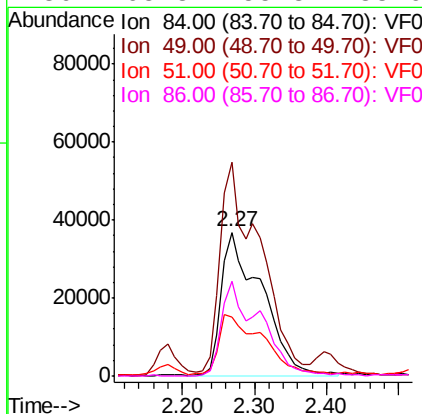
apatel
 9/24/2018 12:51:14 PM

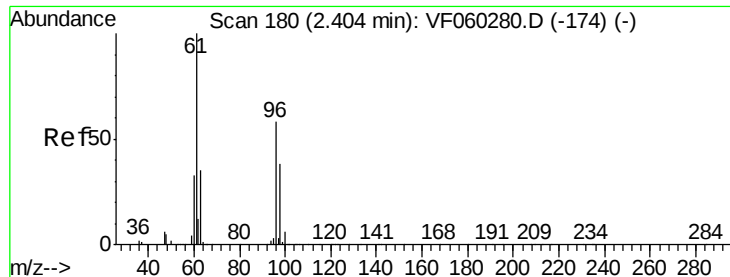


#20

Methylene Chloride
 Concen: 54.046 ug/l
 RT: 2.27 min Scan# 166
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
84	100		
49	148.8	118.3	177.5
51	41.1	38.7	58.1
86	65.8	55.8	83.6





#21

trans-1,2-Dichloroethene

Concen: 47.946 ug/l

RT: 2.40 min Scan# 179

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

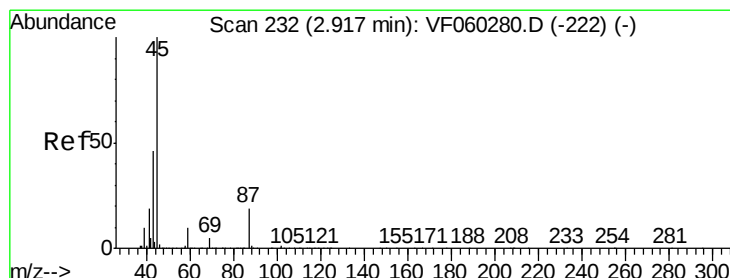
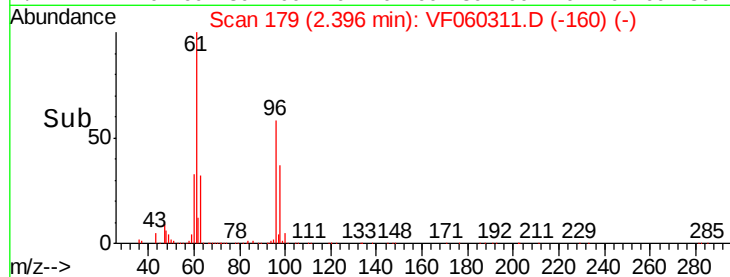
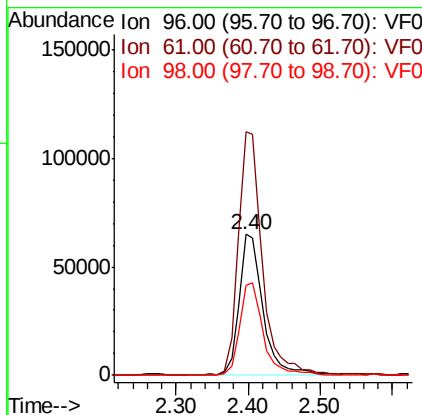
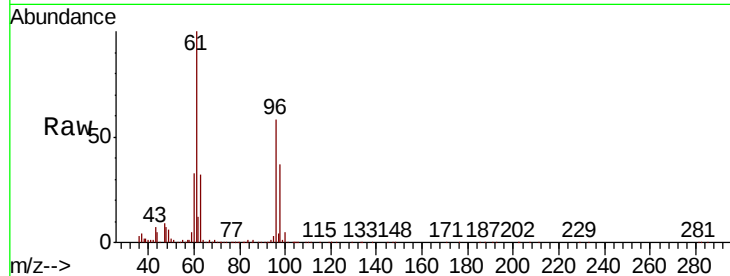
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	148093
Ion Ratio	Lower	Upper	
96	100		
61	173.1	136.4	204.6
98	63.7	51.8	77.6

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#22

Diisopropyl ether

Concen: 50.001 ug/l

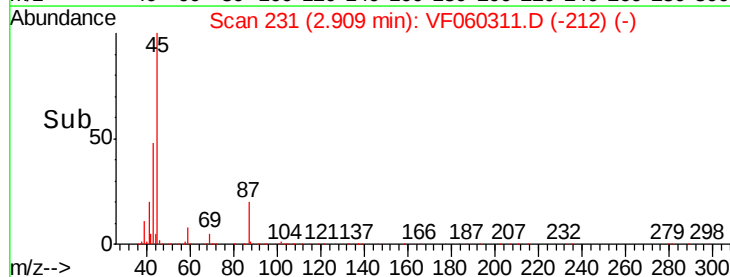
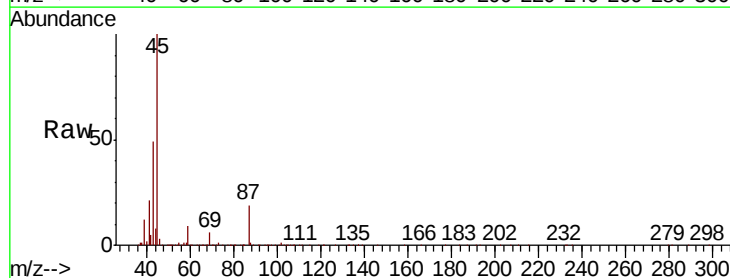
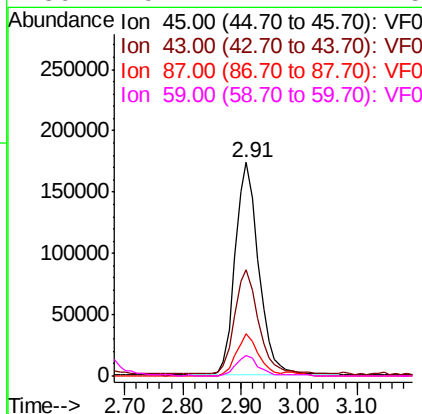
RT: 2.91 min Scan# 231

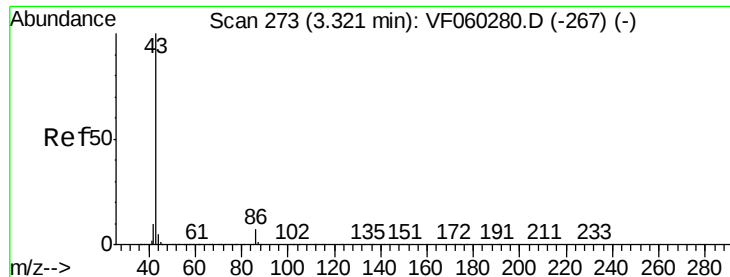
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	45	Resp:	492323
Ion Ratio	Lower	Upper	
45	100		
43	49.5	38.2	57.2
87	19.5	15.5	23.3
59	9.4	7.7	11.5





#23

Vinyl Acetate

Concen: 235.970 ug/l

RT: 3.31 min Scan# 272

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

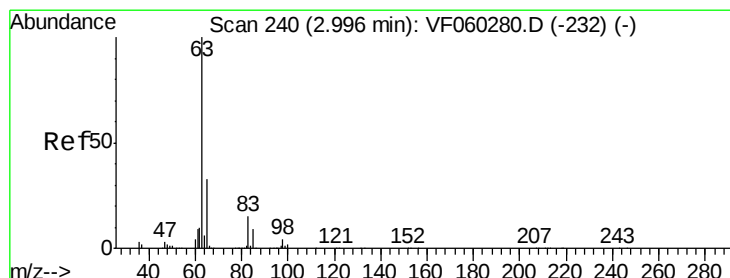
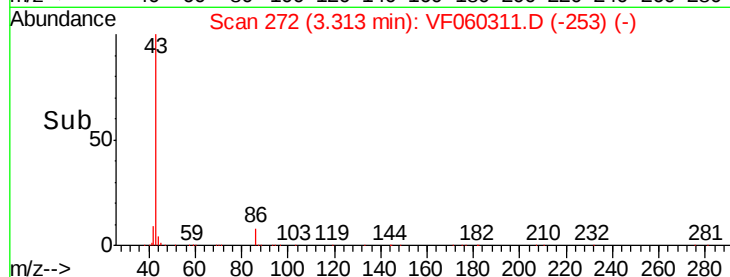
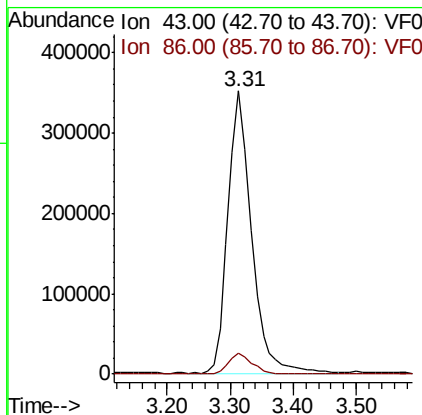
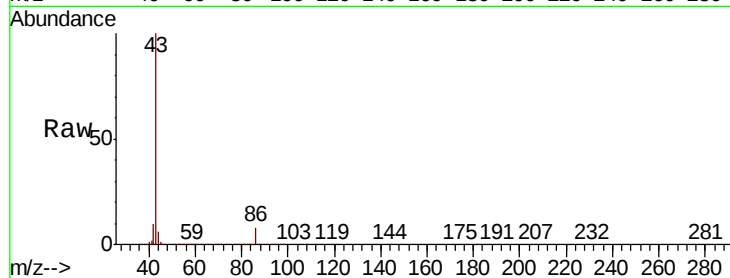
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	912517
Ion Ratio	Lower	Upper	
43	100		
86	7.5	5.9	8.9

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#24

1,1-Dichloroethane

Concen: 48.403 ug/l

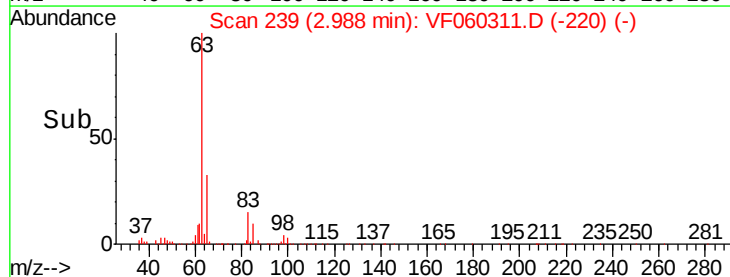
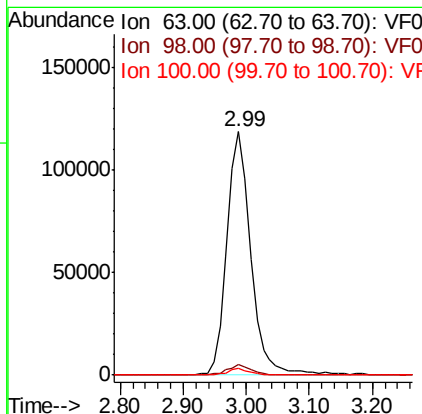
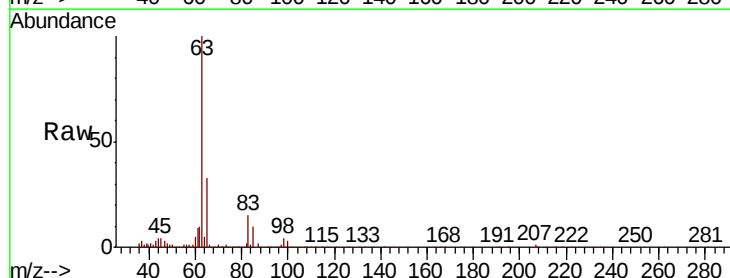
RT: 2.99 min Scan# 239

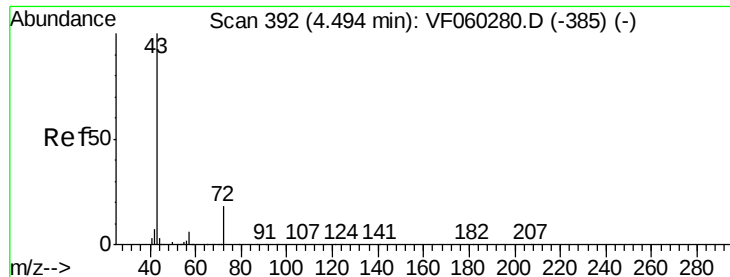
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	63	Resp:	309084
Ion Ratio	Lower	Upper	
63	100		
98	4.2	2.1	6.5
100	2.9	1.1	3.3





#25

2-Butanone

Concen: 265.866 ug/l

RT: 4.49 min Scan# 391

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 356615

Ion Ratio Lower Upper

43 100

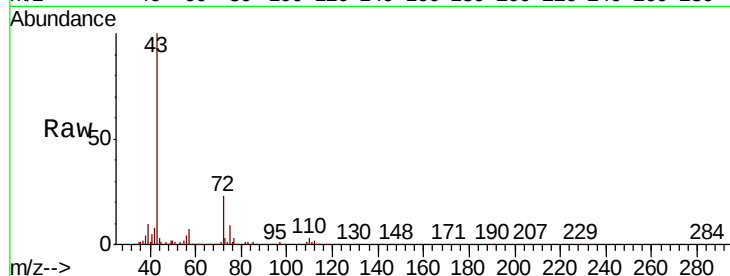
72 22.9 16.2 24.2

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.49

100000

80000

60000

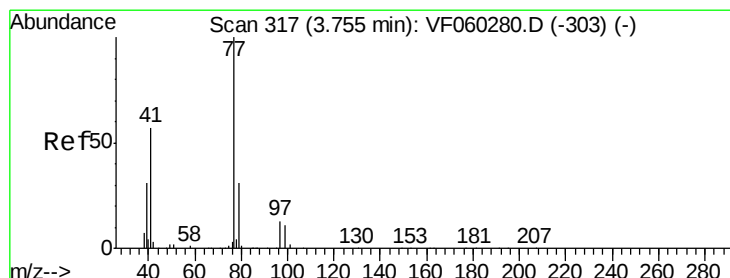
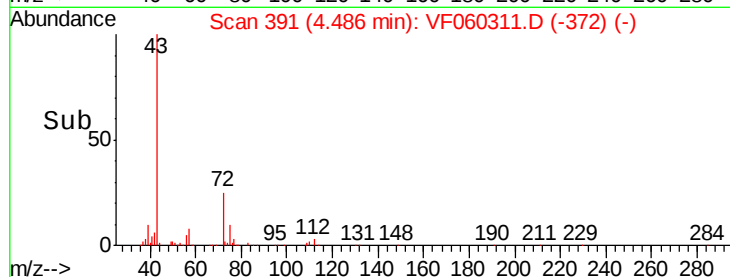
40000

20000

0

4.40 4.50 4.60

Time-->



#26

2,2-Dichloropropane

Concen: 46.918 ug/l

RT: 3.74 min Scan# 315

Delta R.T. -0.02 min

Lab File: VF060311.D

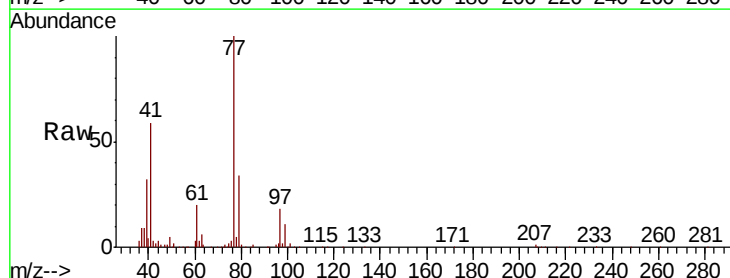
Acq: 21 Sep 2018 12:00

Tgt Ion: 77 Resp: 170945

Ion Ratio Lower Upper

77 100

97 18.0 9.3 27.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.74

50000

40000

30000

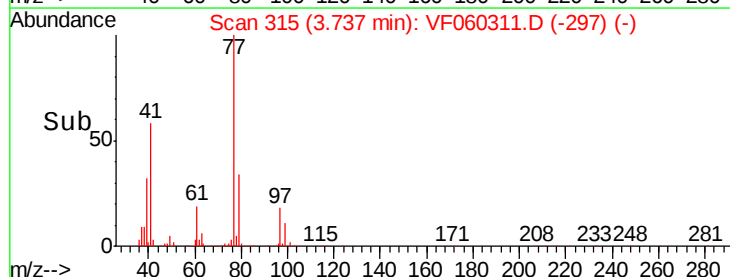
20000

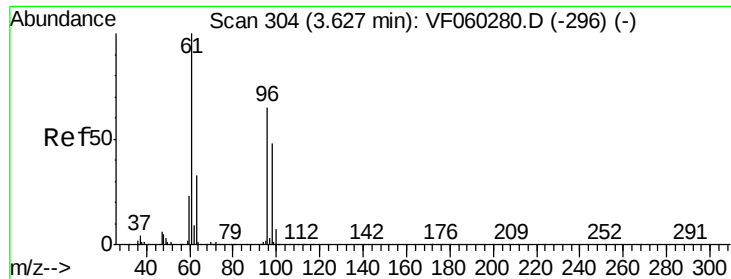
10000

0

3.60 3.70 3.80 3.90

Time-->





#27

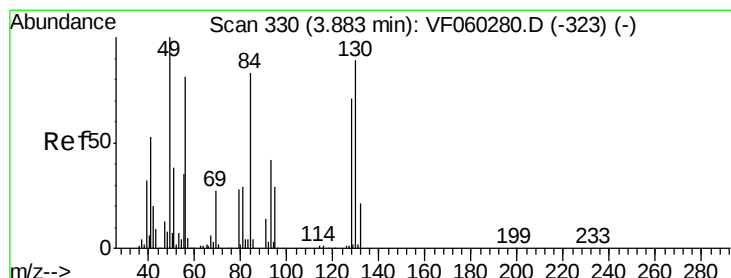
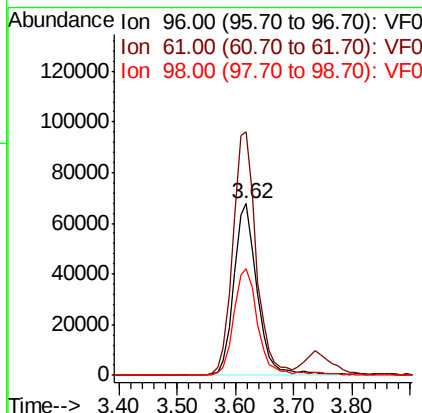
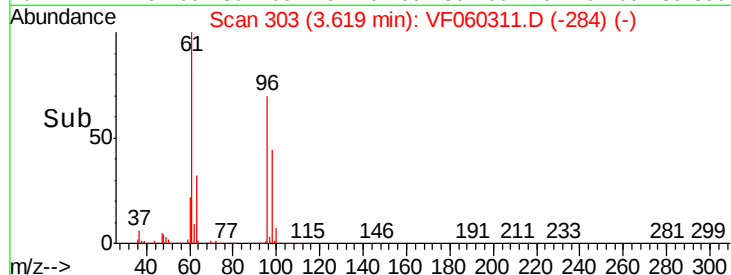
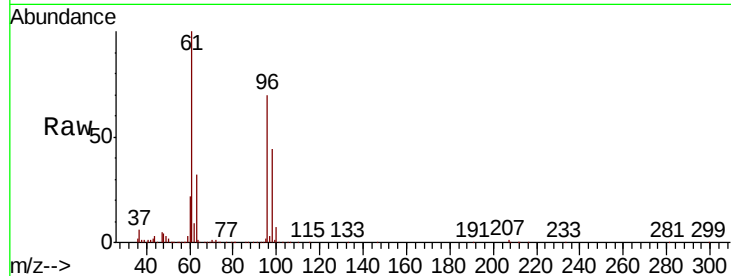
cis-1,2-Dichloroethene
Concen: 46.213 ug/l
RT: 3.62 min Scan# 303
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	142.1	0.0	304.8		
98	62.3	0.0	146.4		

Manual Integrations
APPROVED

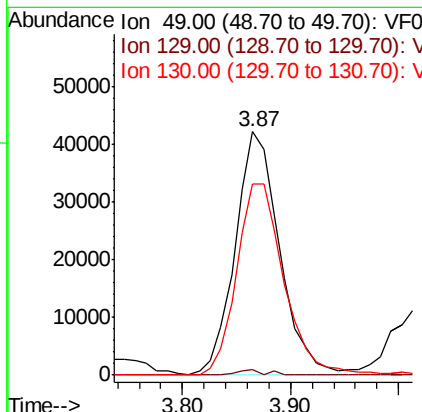
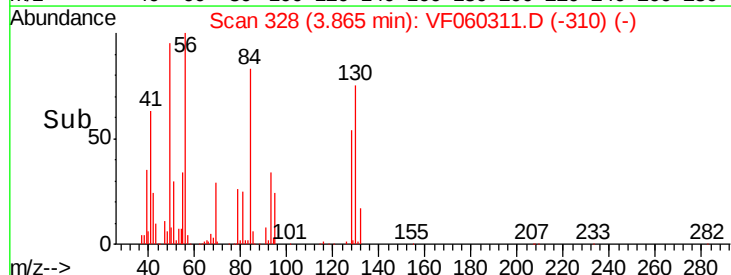
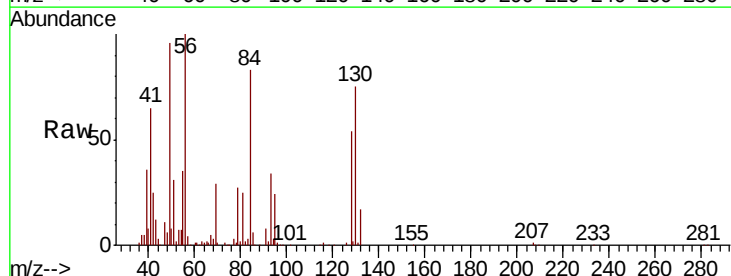
apatel
9/24/2018 12:51:14 PM

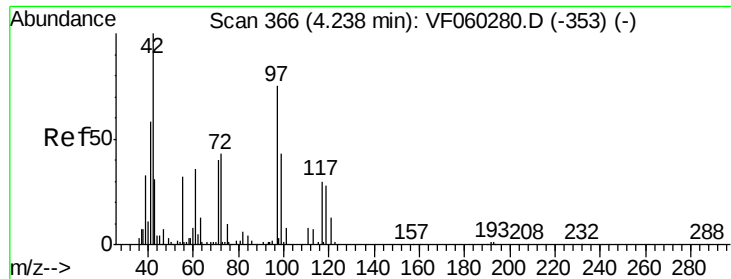


#28

Bromochloromethane
Concen: 48.044 ug/l
RT: 3.87 min Scan# 328
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100				
129	2.3	0.0	4.2		
130	78.4	70.3	105.5		





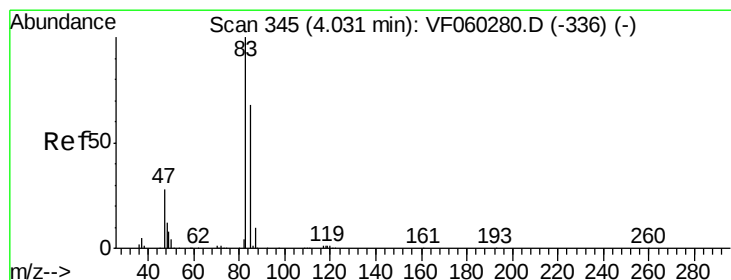
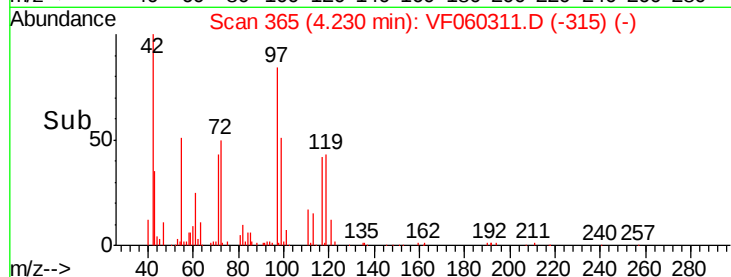
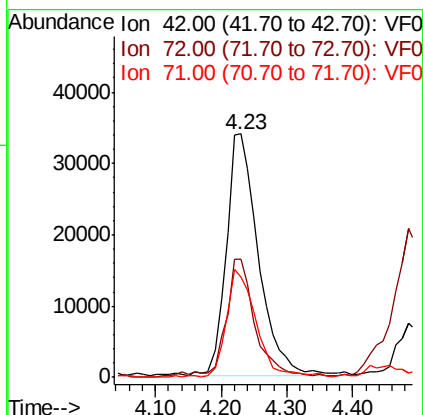
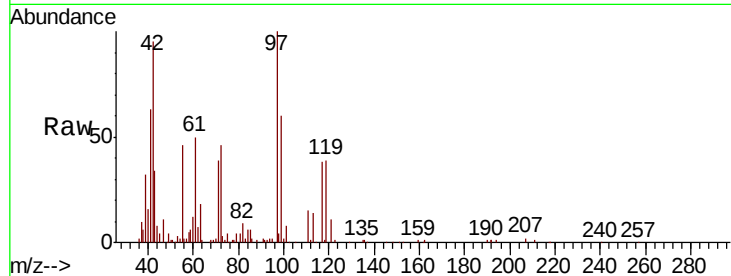
#29
Tetrahydrofuran
Concen: 234.572 ug/l
RT: 4.23 min Scan# 365
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.7	32.6	49.0
71	41.8	32.7	49.1

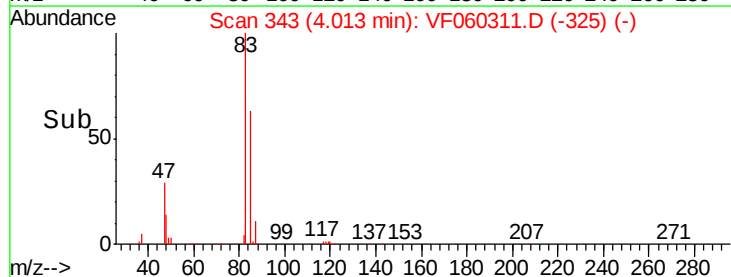
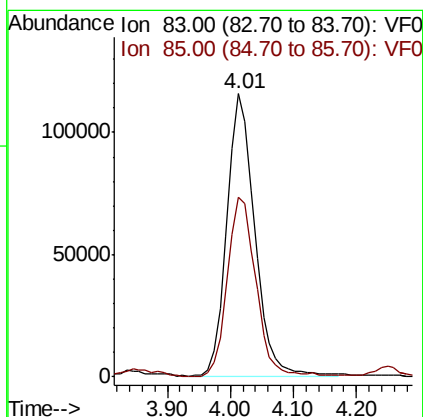
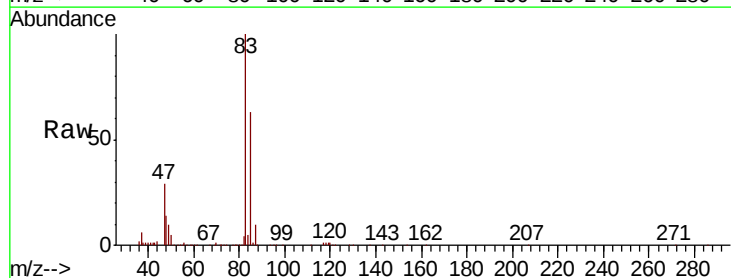
Manual Integrations
APPROVED

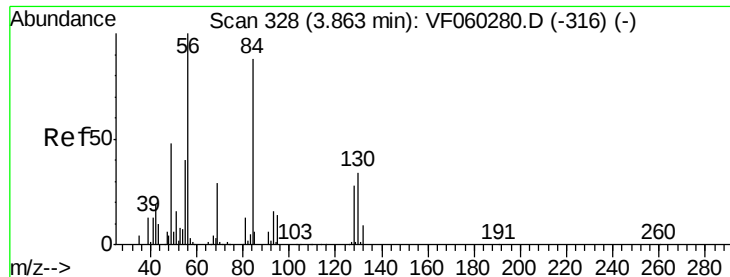
apatel
9/24/2018 12:51:14 PM



#30
Chloroform
Concen: 45.942 ug/l
RT: 4.01 min Scan# 343
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	54.9	82.3





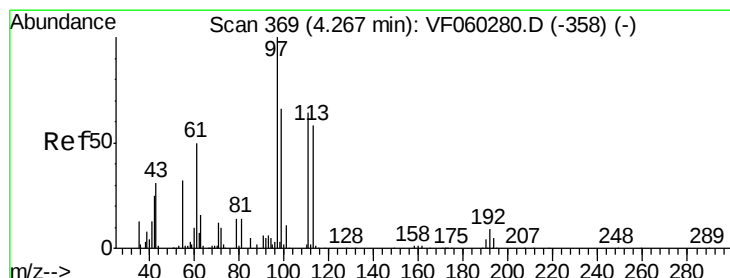
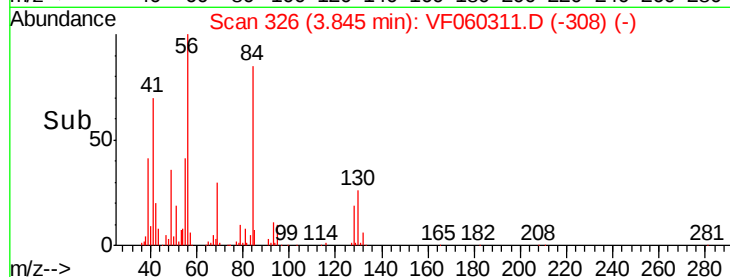
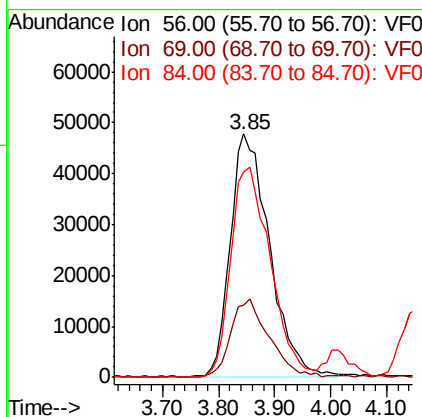
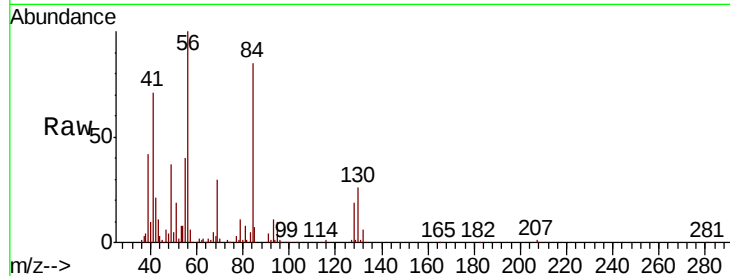
#31
Cyclohexane
Concen: 43.127 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.6
84	84.5	70.2	105.4

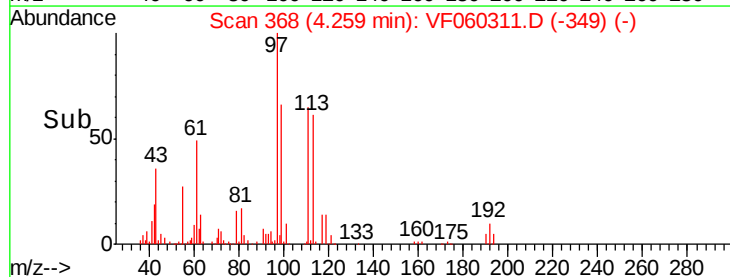
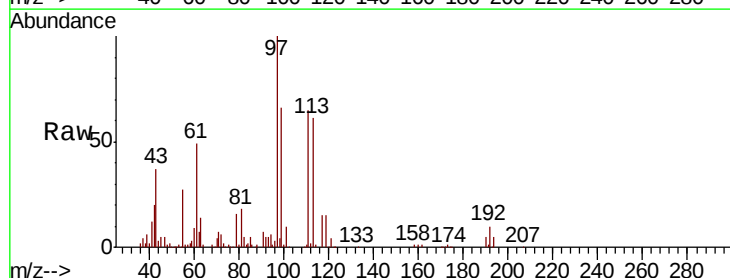
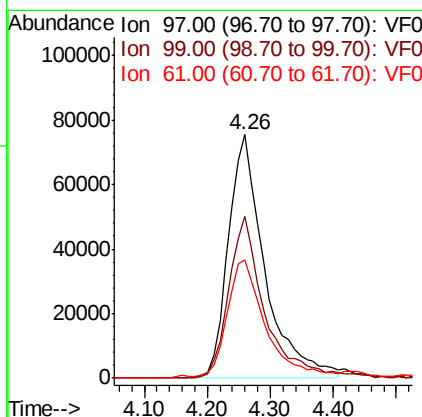
Manual Integrations
APPROVED

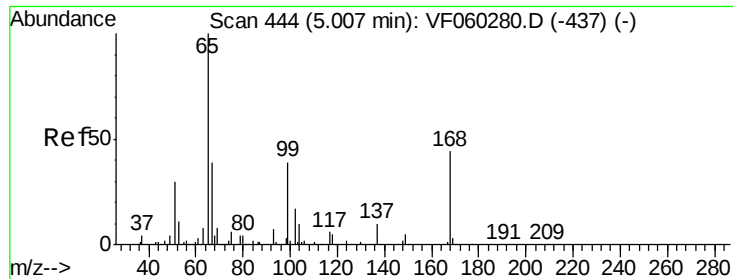
apatel
9/24/2018 12:51:14 PM



#32
1,1,1-Trichloroethane
Concen: 49.836 ug/l
RT: 4.26 min Scan# 368
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.3	53.0	79.4
61	48.7	40.6	61.0





#33

1,2-Dichloroethane-d4

Concen: 50.181 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 177569

Ion Ratio Lower Upper

65 100

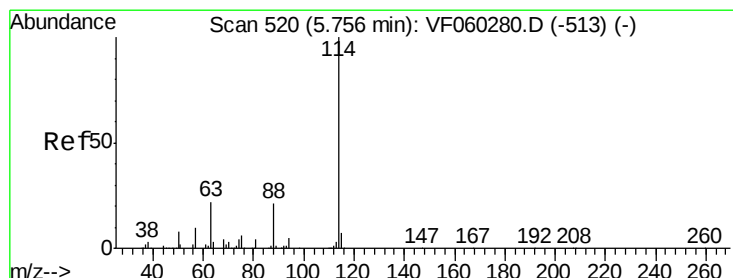
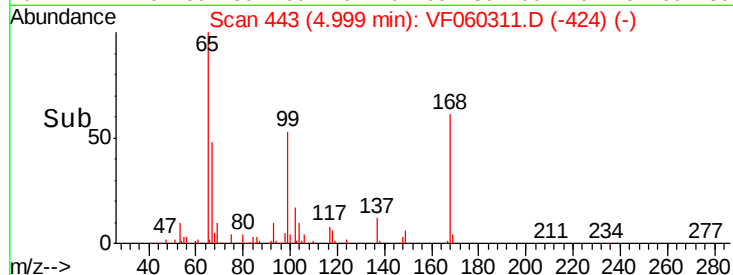
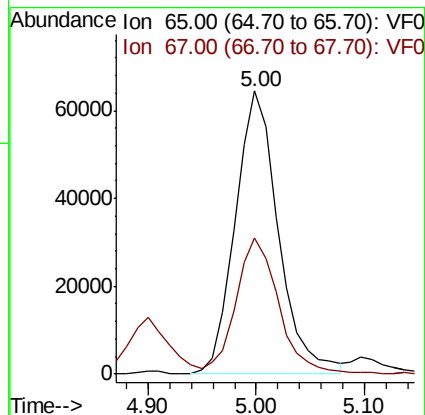
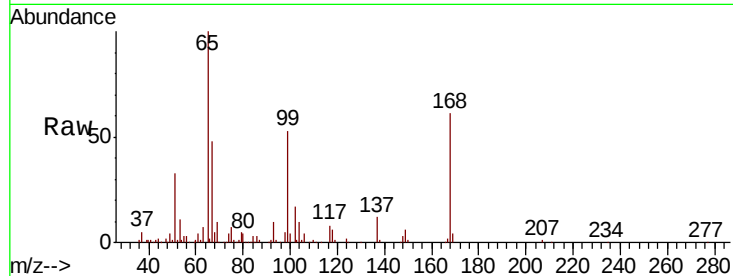
67 48.0 0.0 94.4

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

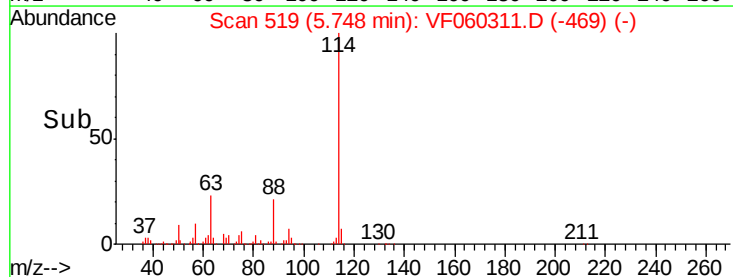
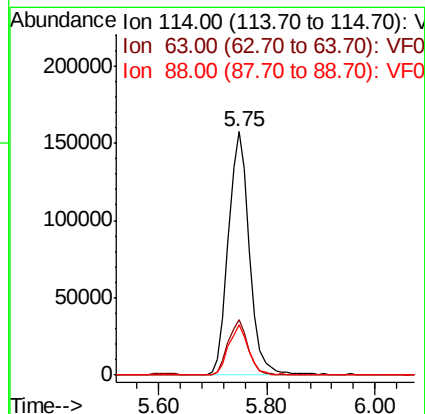
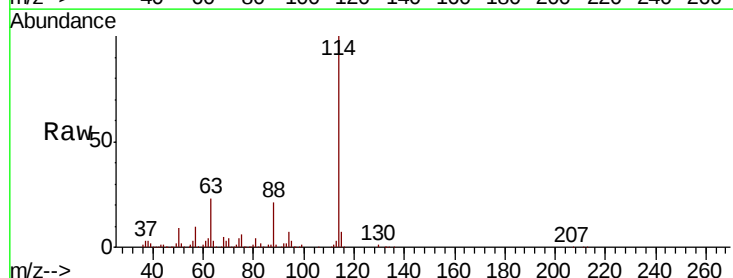
Tgt Ion: 114 Resp: 426664

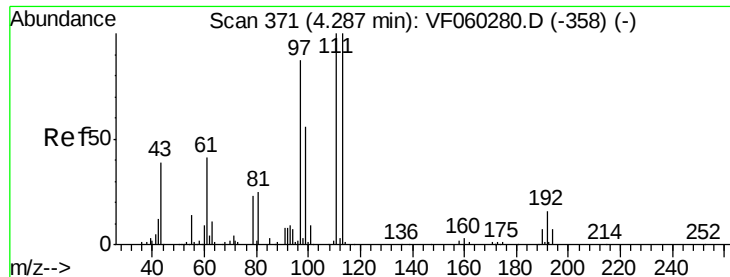
Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.8

88 20.5 0.0 41.2





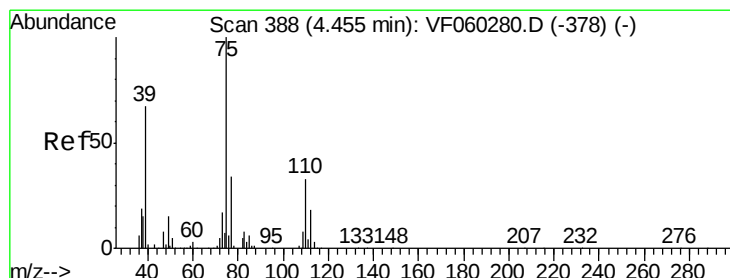
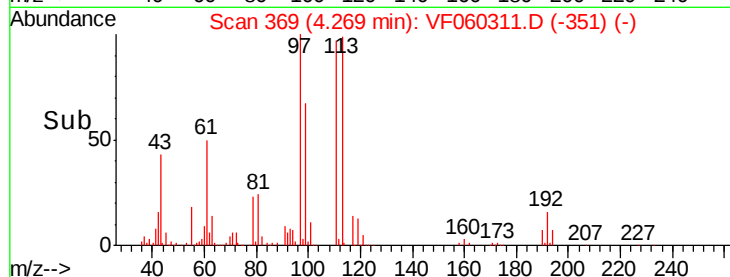
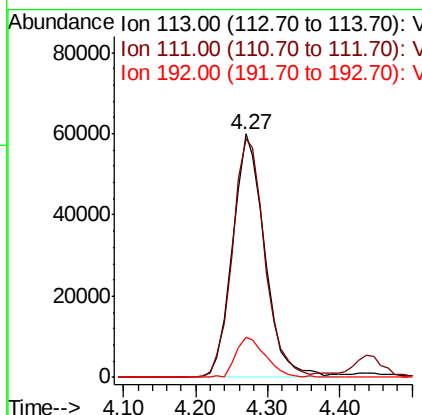
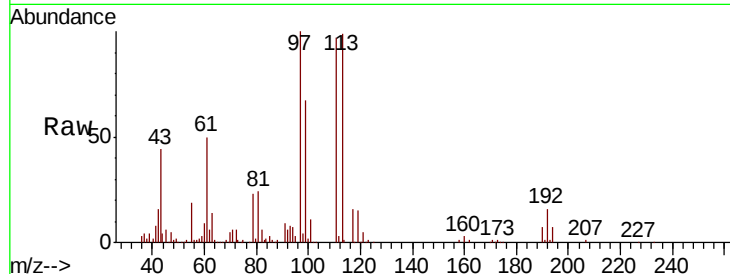
#35
 Dibromofluoromethane
 Concen: 49.060 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.02 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	186596		
111	97.2	79.6	119.4	
192	16.2	13.0	19.6	

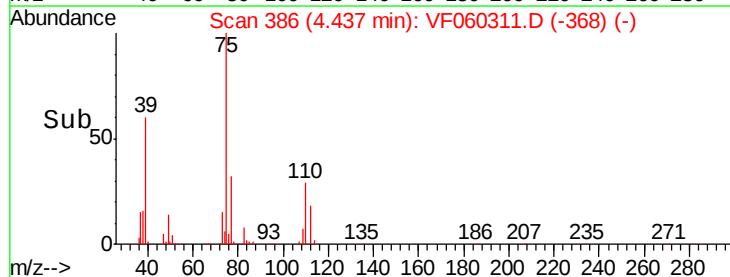
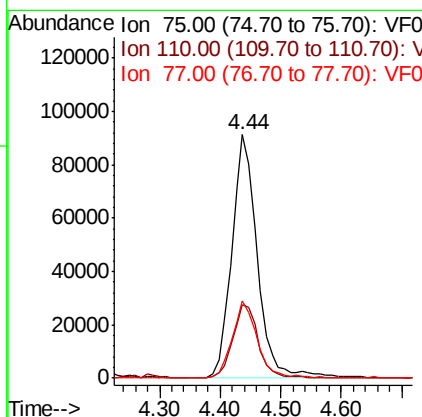
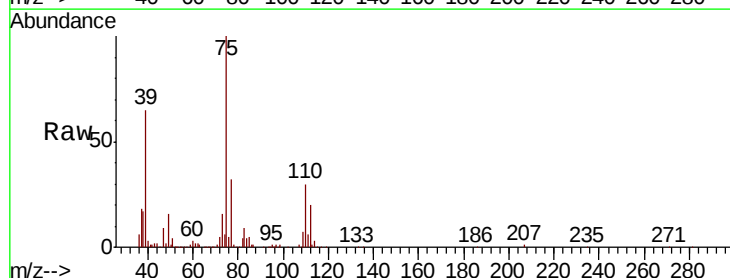
Manual Integrations
 APPROVED

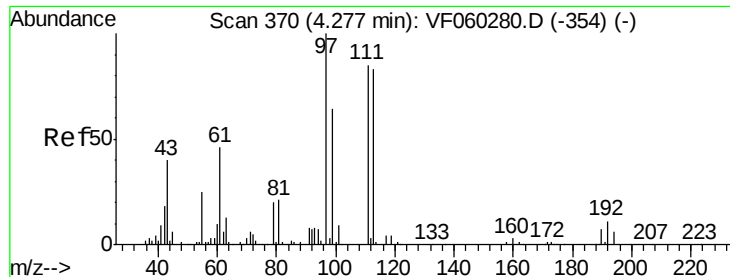
apatel
 9/24/2018 12:51:14 PM



#36
 1,1-Dichloropropene
 Concen: 49.705 ug/l
 RT: 4.44 min Scan# 386
 Delta R.T. -0.02 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	264533		
110	30.3	16.4	49.2	
77	31.7	27.3	40.9	





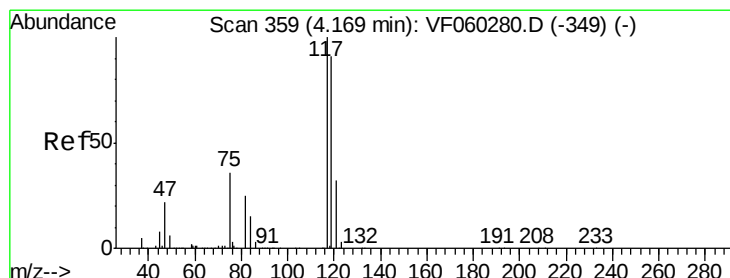
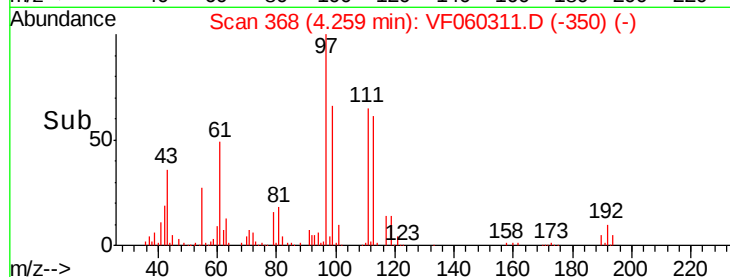
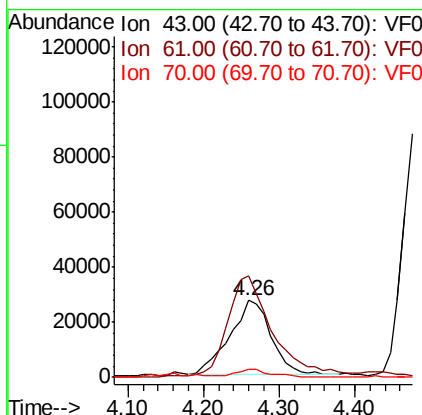
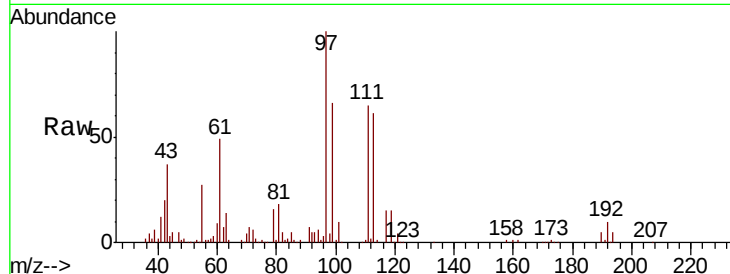
#37
Ethyl Acetate
Concen: 46.015 ug/l
RT: 4.26 min Scan# 368
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	131.5	91.1	136.7
70	9.9	6.9	10.3

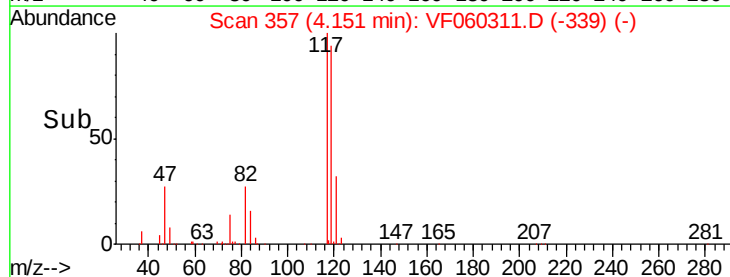
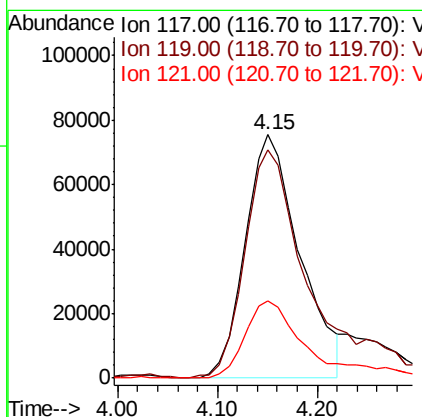
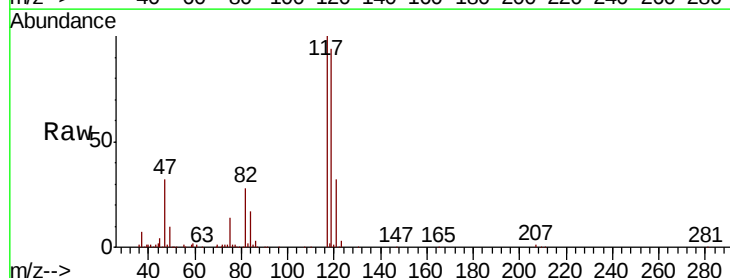
Manual Integrations
APPROVED

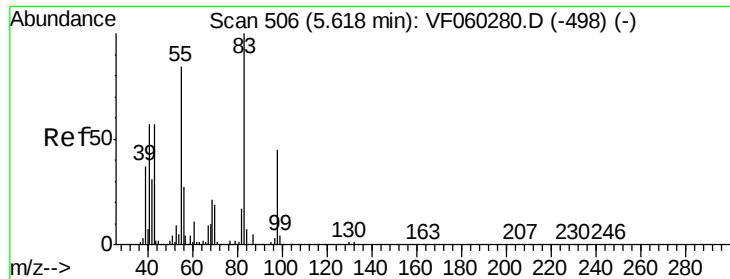
apatel
9/24/2018 12:51:14 PM



#38
Carbon Tetrachloride
Concen: 50.296 ug/l m
RT: 4.15 min Scan# 357
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.9	73.0	109.6
121	31.6	25.4	38.2





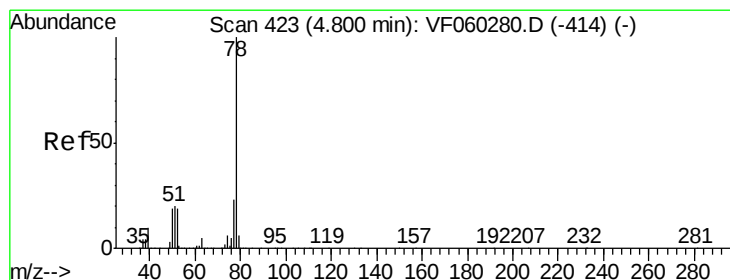
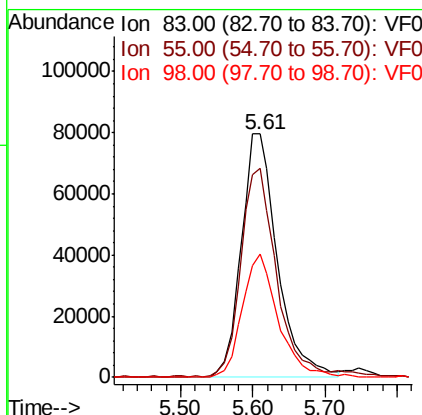
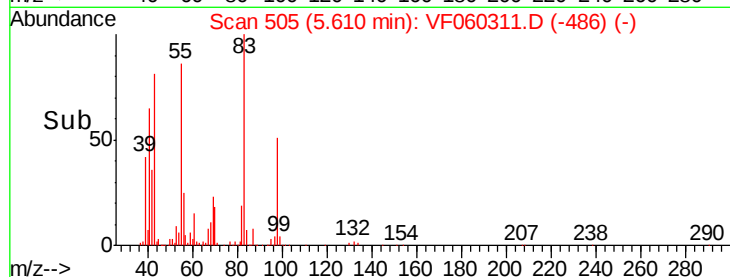
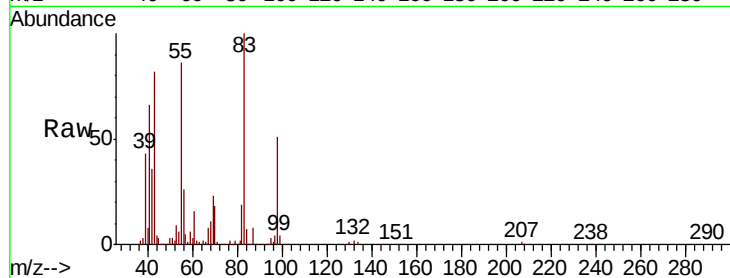
#39
Methvlcvclohexane
Concen: 48.256 ug/l
RT: 5.61 min Scan# 505
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.1	67.3	100.9
98	50.7	36.1	54.1

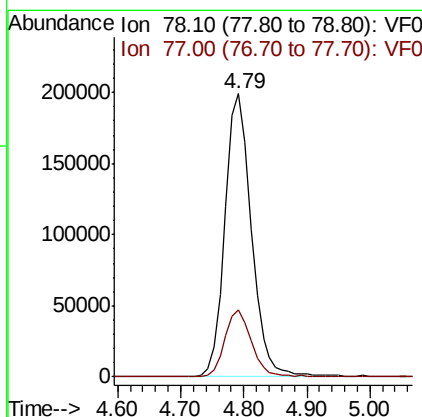
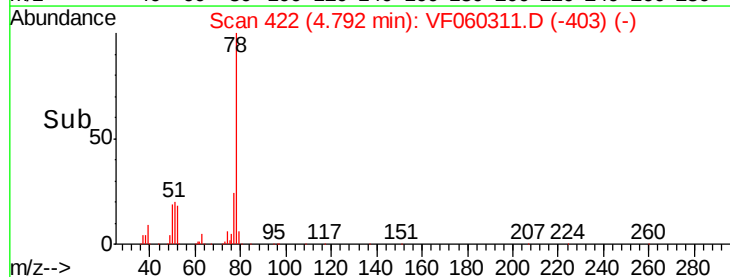
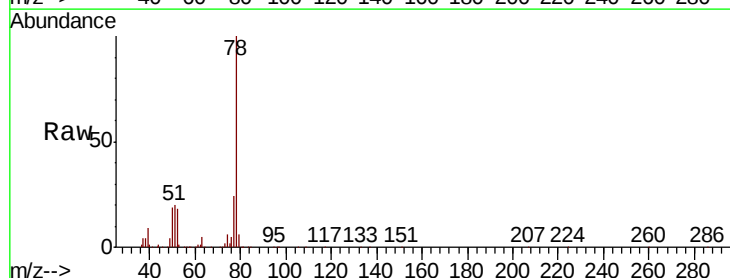
Manual Integrations
APPROVED

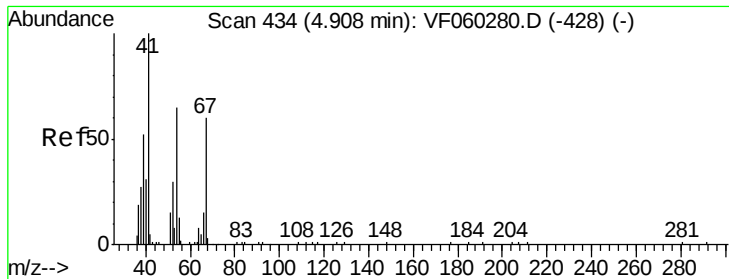
apatel
9/24/2018 12:51:14 PM



#40
Benzene
Concen: 48.199 ug/l
RT: 4.79 min Scan# 422
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.4	27.6





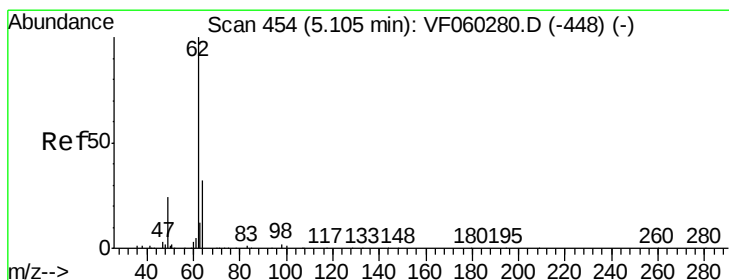
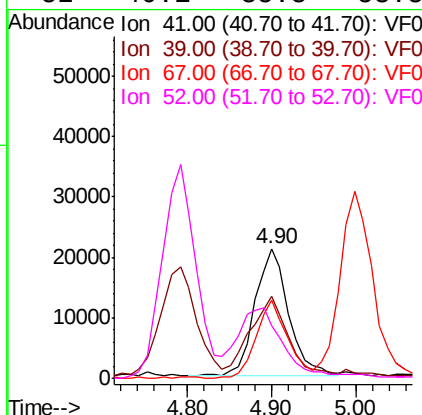
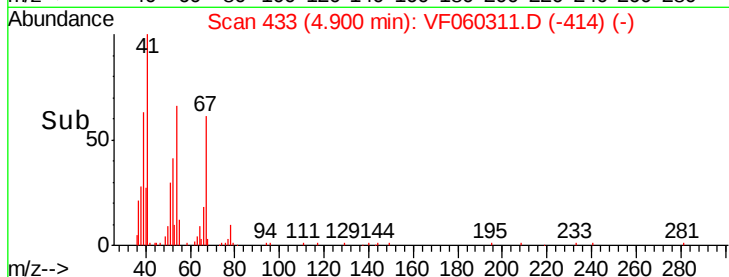
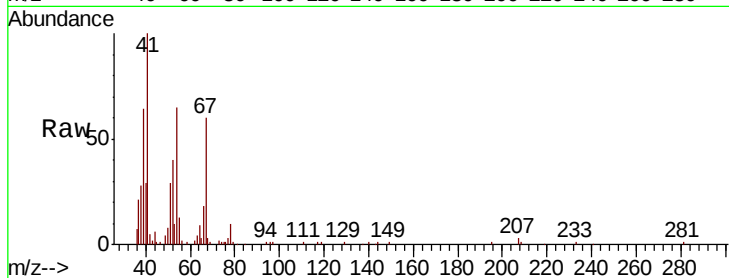
#41
Methacrylonitrile
Concen: 48.538 ug/l
RT: 4.90 min Scan# 433
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	41	Resp:	59310
Ion	Ratio	Lower	Upper
41	100		
39	63.6	49.1	73.7
67	60.2	48.2	72.4
52	40.1	35.8	53.8

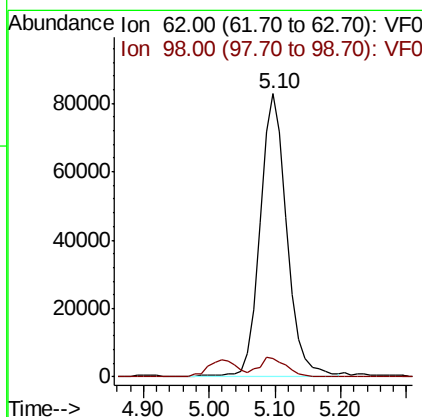
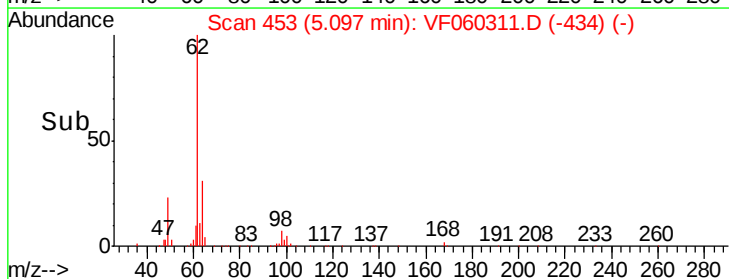
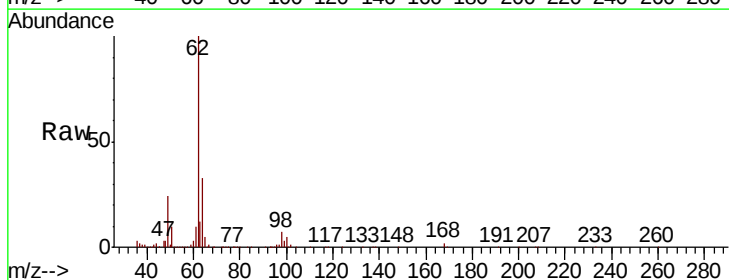
Manual Integrations
APPROVED

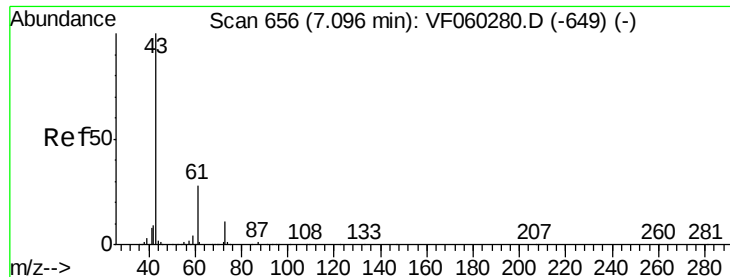
apatel
9/24/2018 12:51:14 PM



#42
1,2-Dichloroethane
Concen: 53.054 ug/l
RT: 5.10 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion:	62	Resp:	235658
Ion	Ratio	Lower	Upper
62	100		
98	6.7	0.0	14.4





#43

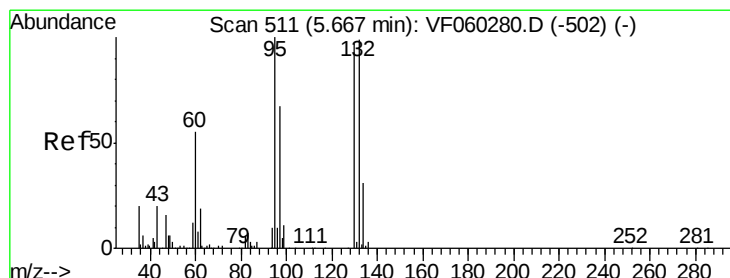
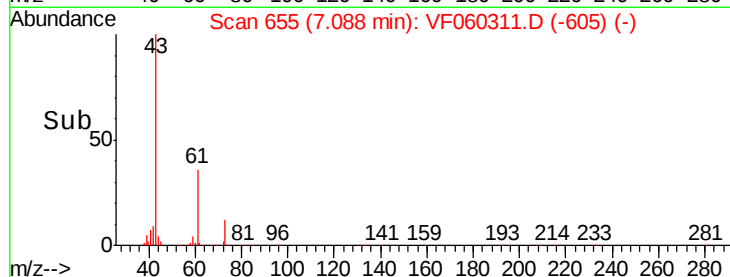
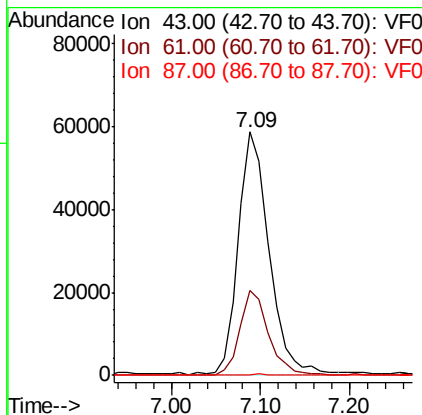
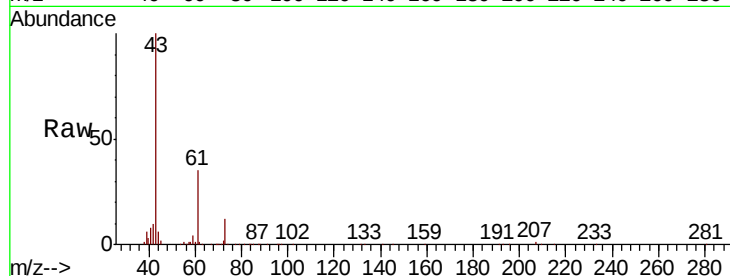
Isopropyl Acetate
 Concen: 51.606 ug/l
 RT: 7.09 min Scan# 655
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.0	22.4	33.6#
87	0.3	0.6	0.8#

Manual Integrations
 APPROVED

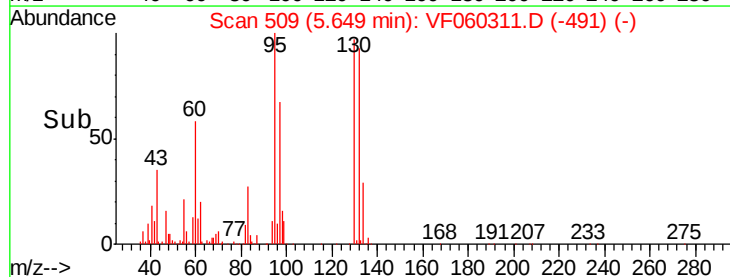
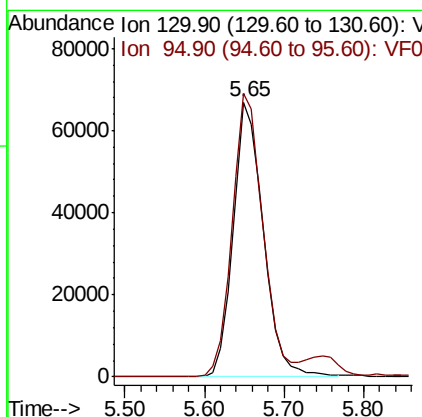
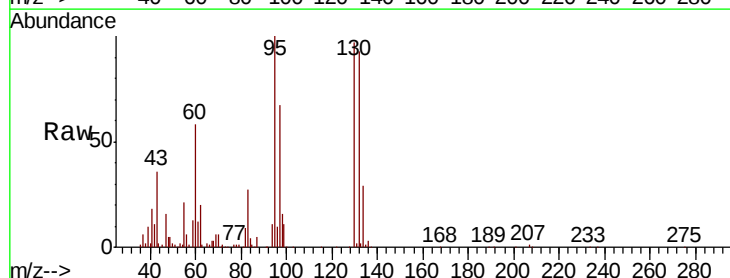
apatel
 9/24/2018 12:51:14 PM

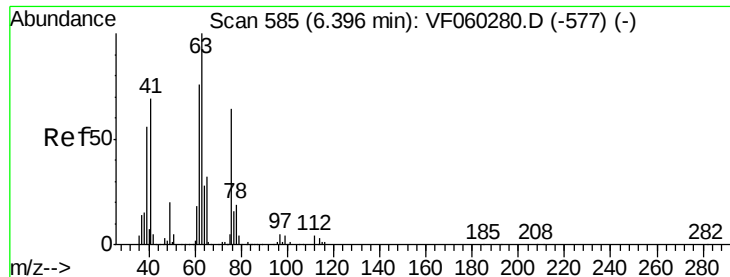


#44

Trichloroethene
 Concen: 49.150 ug/l
 RT: 5.65 min Scan# 509
 Delta R.T. -0.02 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	205.6





#45

1,2-Dichloropropane

Concen: 50.664 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.02 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 158231

Ion Ratio Lower Upper

63 100

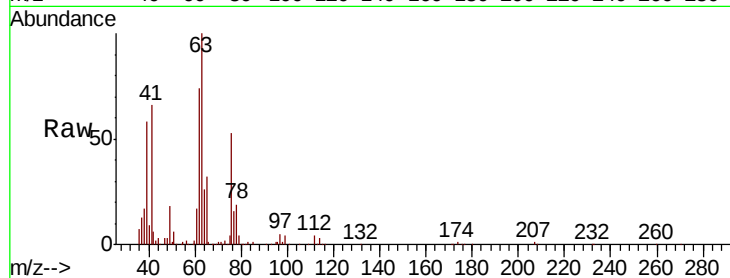
65 32.2 26.2 39.4

Manual Integrations

APPROVED

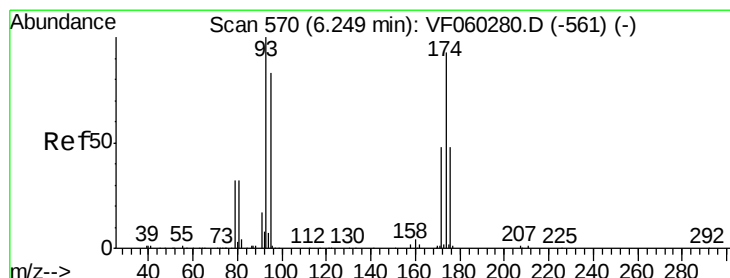
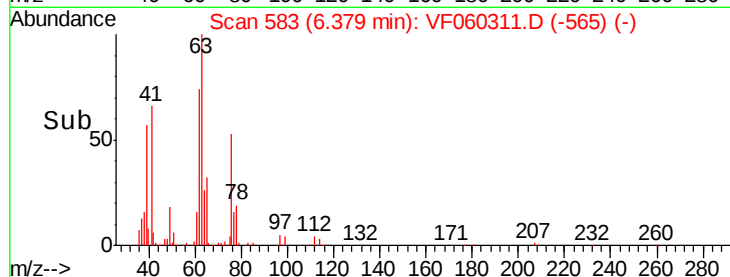
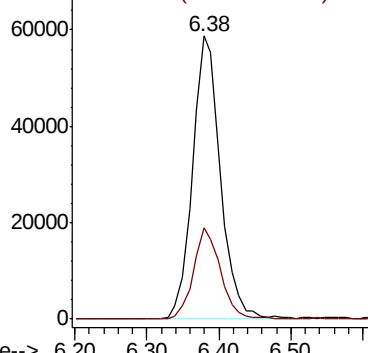
apatel

9/24/2018 12:51:14 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 50.416 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.02 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

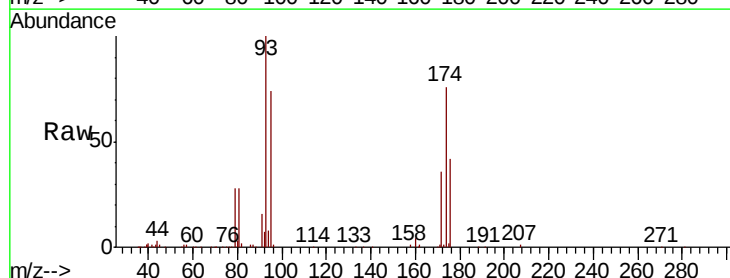
Tgt Ion: 93 Resp: 112552

Ion Ratio Lower Upper

93 100

95 73.7 67.0 100.6

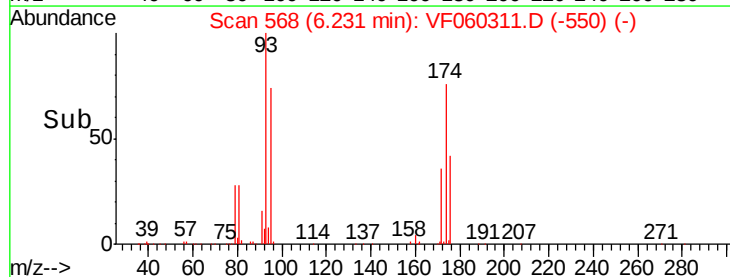
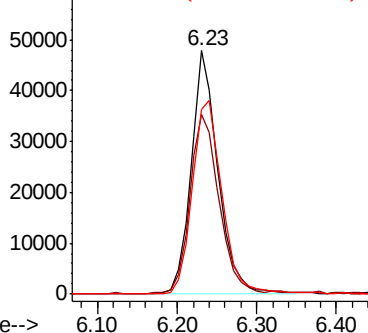
174 75.6 74.8 112.2

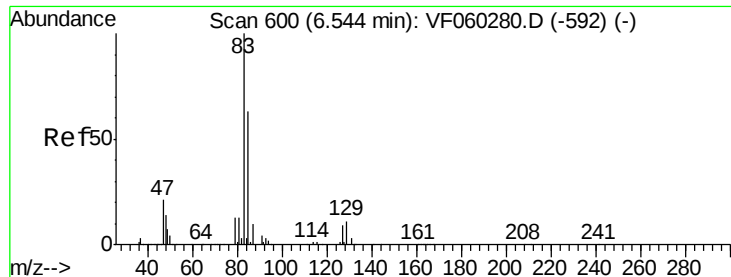


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 50.701 ug/l

RT: 6.53 min Scan# 598

Delta R.T. -0.02 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

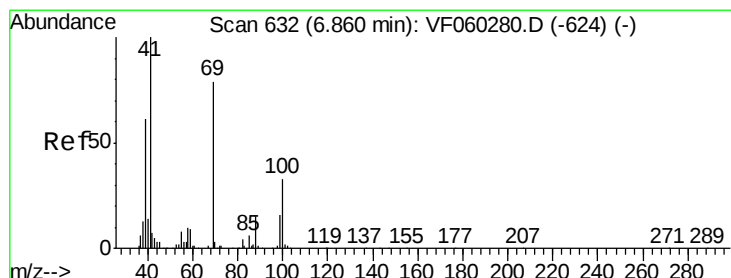
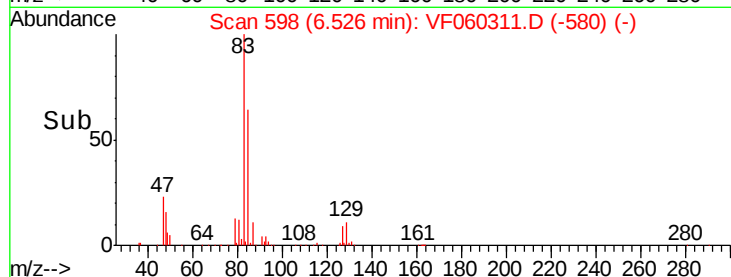
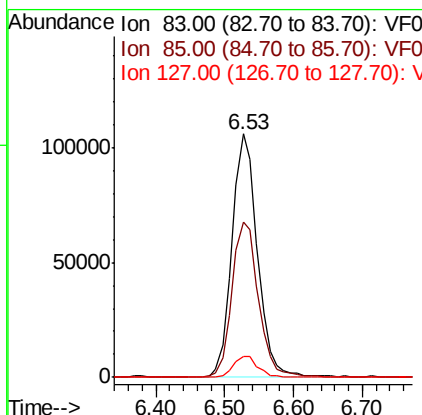
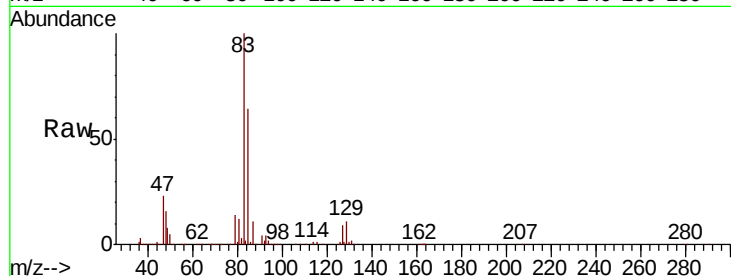
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	272004
Ion Ratio	Lower	Upper	
83	100		
85	63.7	50.6	76.0
127	9.7	7.1	10.7

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#48

Methyl methacrylate

Concen: 52.023 ug/l

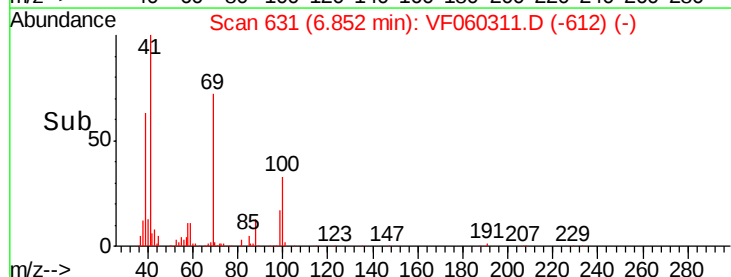
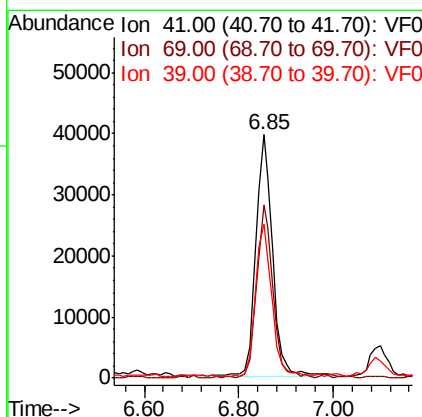
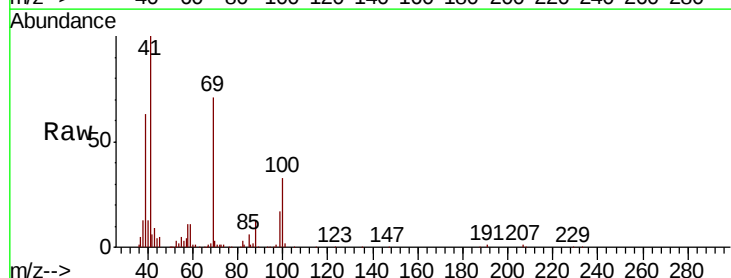
RT: 6.85 min Scan# 631

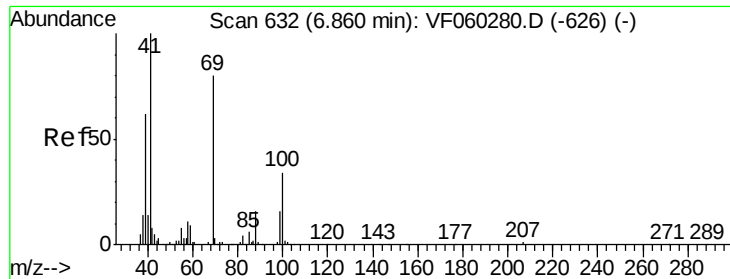
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	41	Resp:	99002
Ion Ratio	Lower	Upper	
41	100		
69	71.4	62.6	94.0
39	63.1	49.1	73.7





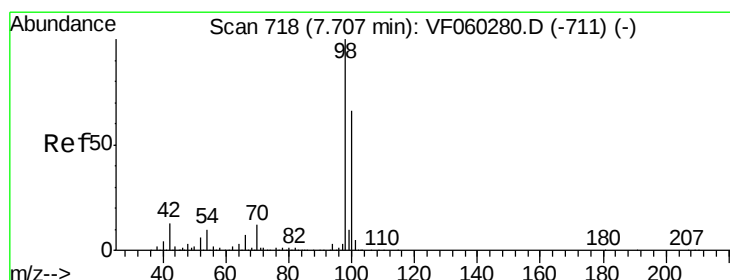
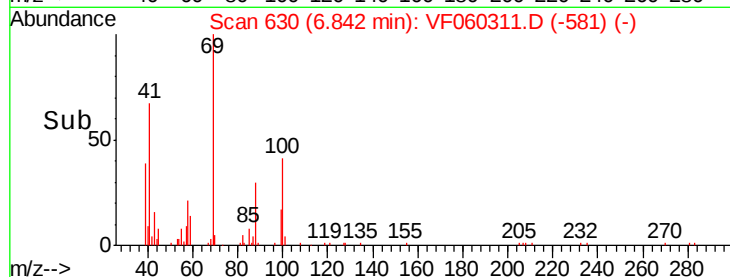
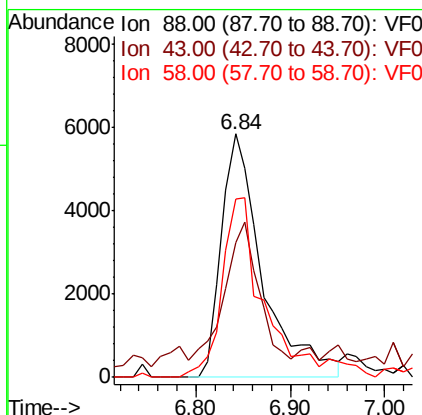
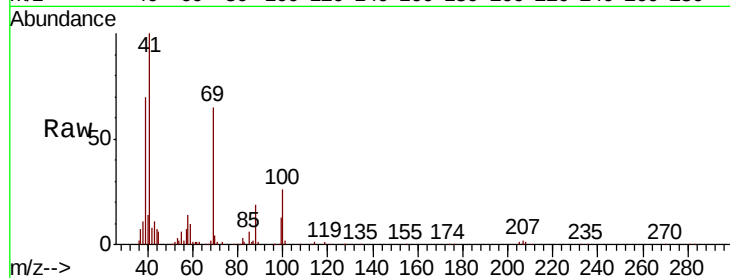
#49
1,4-Dioxane
Concen: 1040.080 ug/l
RT: 6.84 min Scan# 630
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100	17683		
43	55.5		40.2	60.4
58	73.3		56.7	85.1

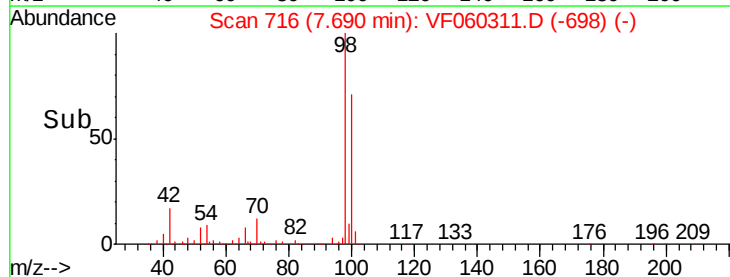
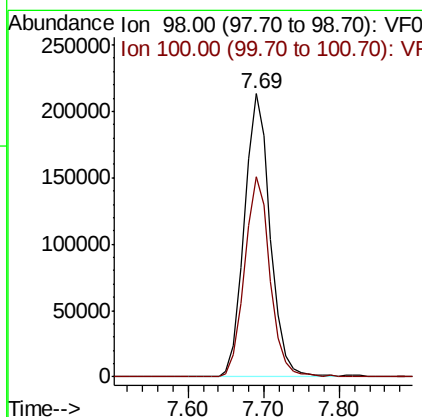
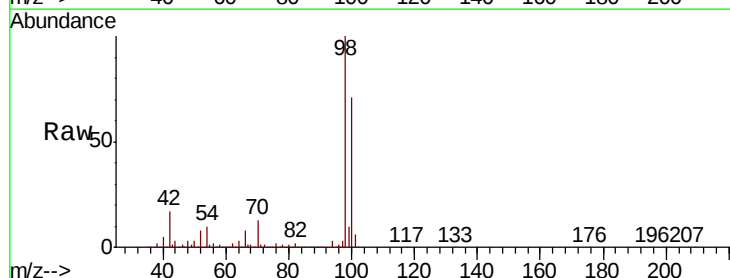
Manual Integrations
APPROVED

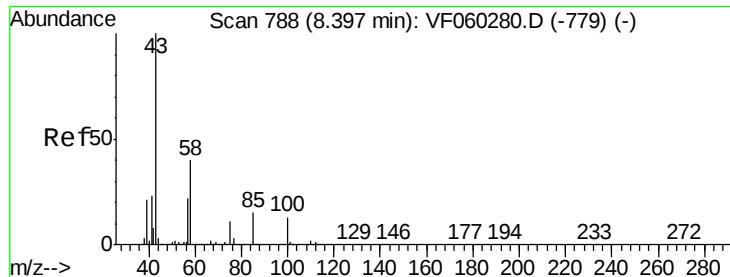
apatel
9/24/2018 12:51:14 PM



#50
Toluene-d8
Concen: 50.980 ug/l
RT: 7.69 min Scan# 716
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	504948		
100	70.6		53.0	79.6





#51

4-Methyl-2-Pentanone

Concen: 308.834 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 645296

Ion Ratio Lower Upper

43 100

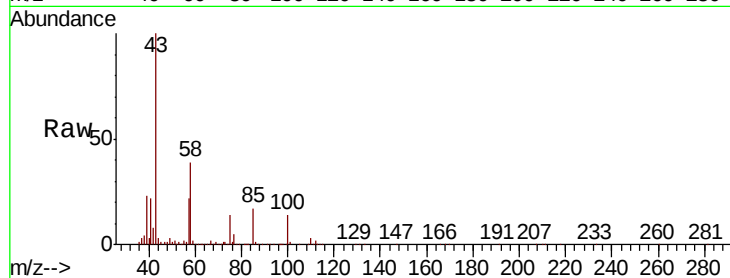
58 38.6 31.8 47.8

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.39

250000

200000

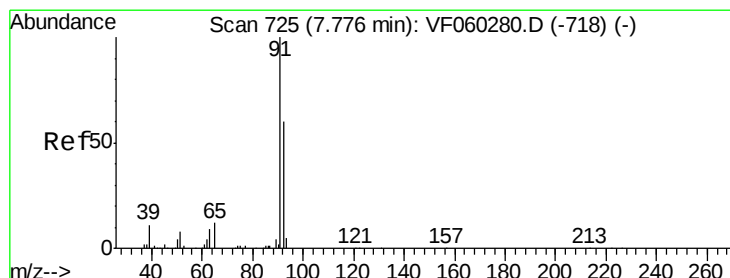
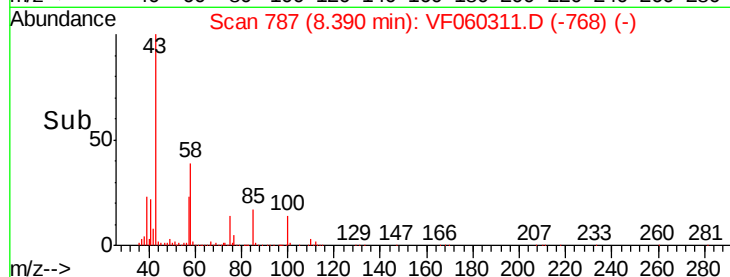
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 49.353 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.02 min

Lab File: VF060311.D

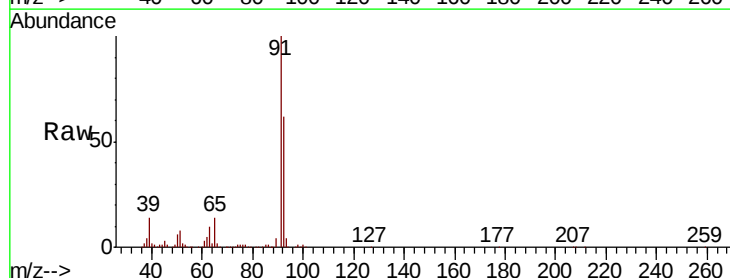
Acq: 21 Sep 2018 12:00

Tgt Ion: 92 Resp: 376775

Ion Ratio Lower Upper

92 100

91 162.1 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.76

250000

200000

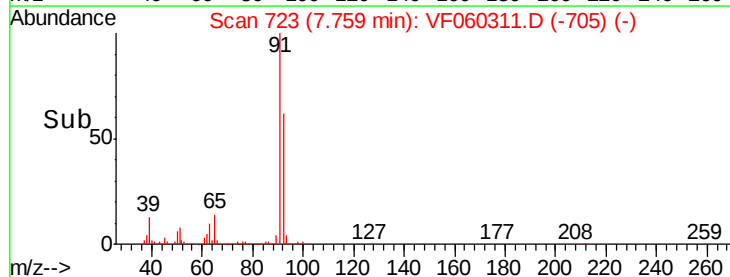
150000

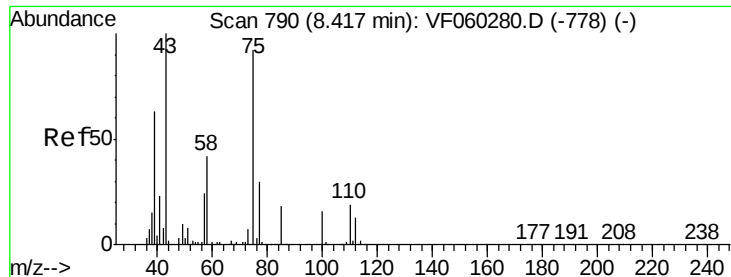
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 50.219 ug/l

RT: 8.41 min Scan# 789

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tot Ion: 75 Resp: 217321

Ion Ratio Lower Upper

75 100

77 33.5 25.9 38.9

Instrument :

MSVOA_F

ClientSampleId :

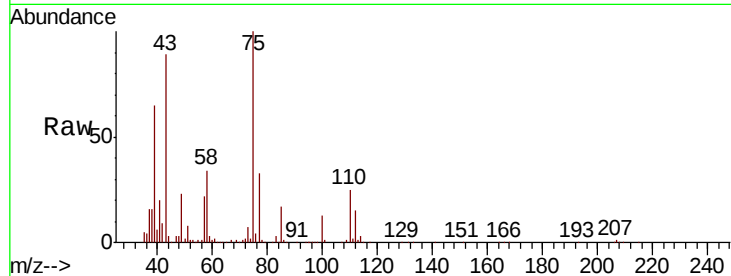
VSTDCCC050

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.41

100000

80000

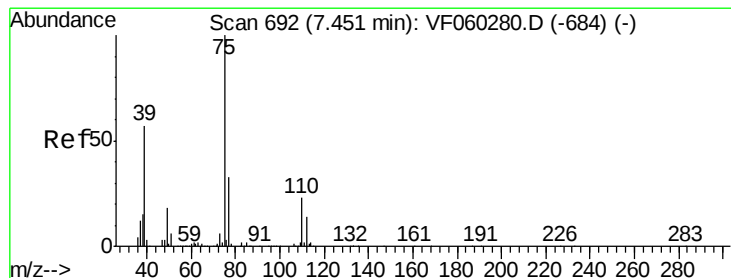
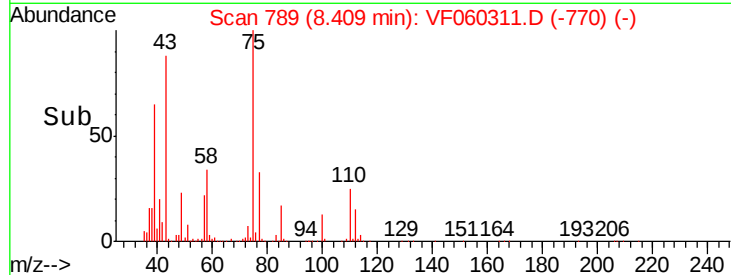
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 51.702 ug/l

RT: 7.43 min Scan# 690

Delta R.T. -0.02 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

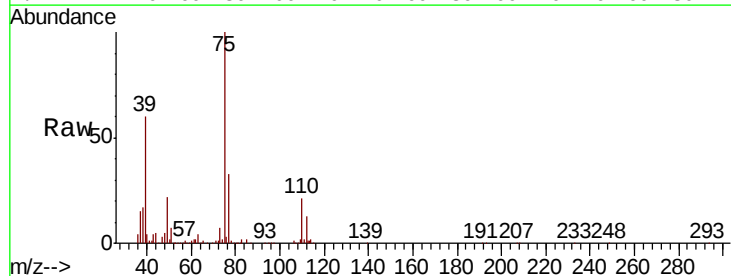
Tgt Ion: 75 Resp: 281859

Ion Ratio Lower Upper

75 100

77 32.8 26.3 39.5

39 59.9 46.1 69.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

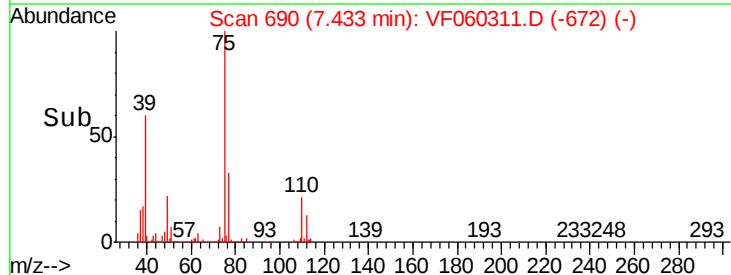
150000

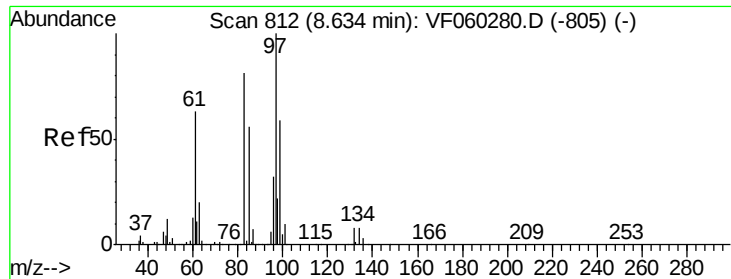
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 50.217 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.02 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

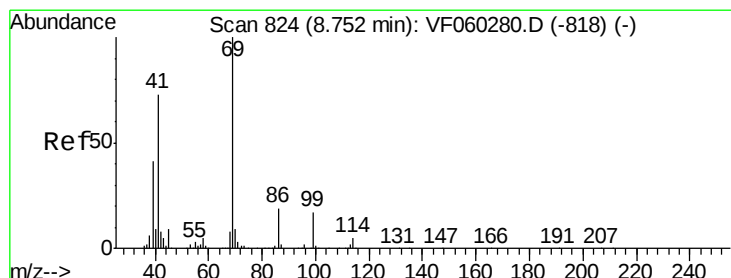
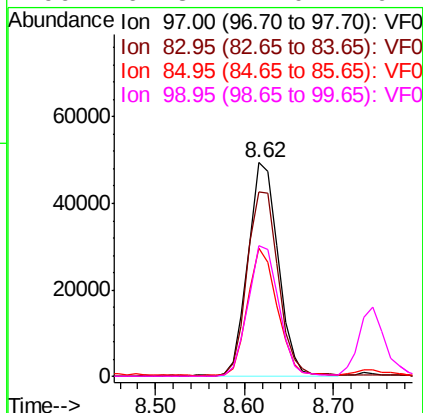
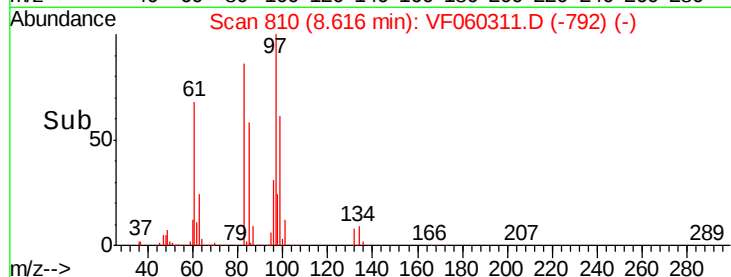
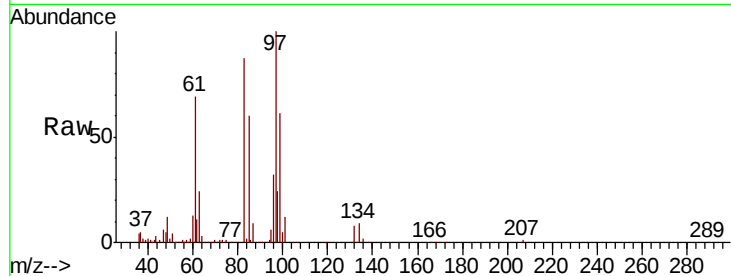
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	116358
Ion Ratio	Lower	Upper	
97	100		
83	86.6	65.3	97.9
85	59.9	44.7	67.1
99	61.3	47.0	70.4

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#56

Ethyl methacrylate

Concen: 55.067 ug/l

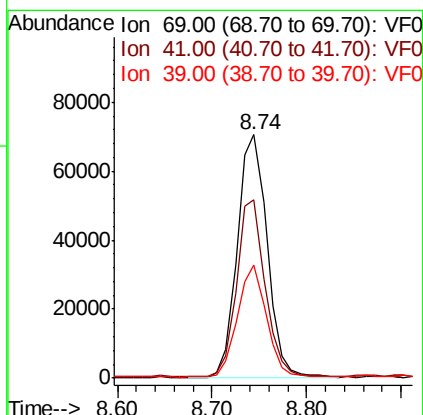
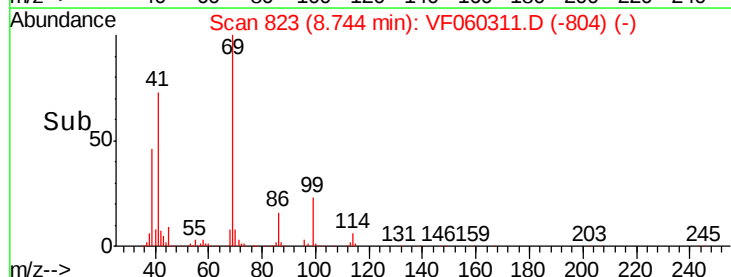
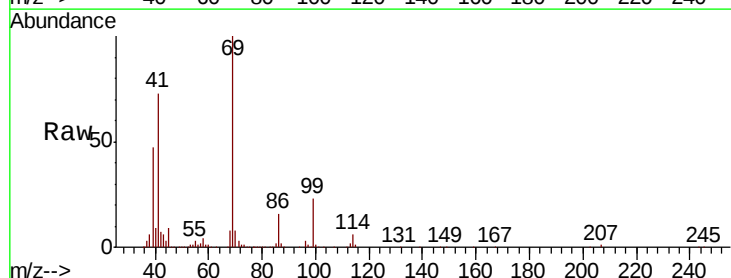
RT: 8.74 min Scan# 823

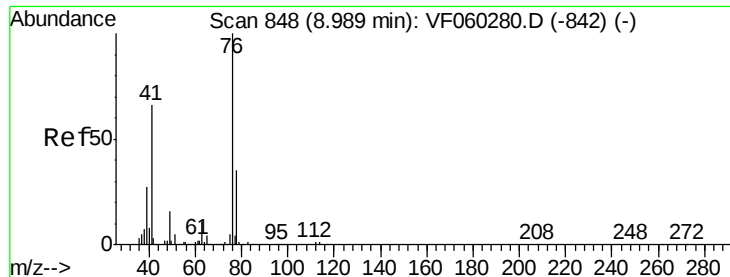
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	69	Resp:	154099
Ion Ratio	Lower	Upper	
69	100		
41	73.1	59.4	89.2
39	46.7	33.5	50.3





#57

1,3-Dichloropropane

Concen: 53.665 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 205889

Ion Ratio Lower Upper

76 100

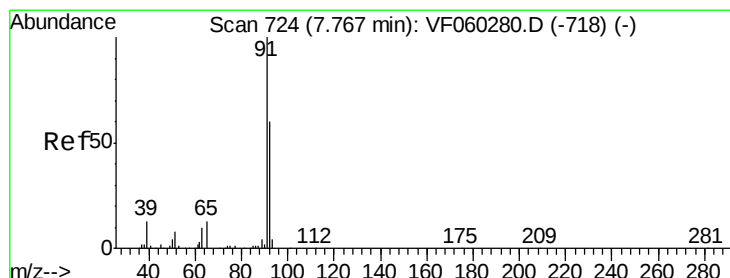
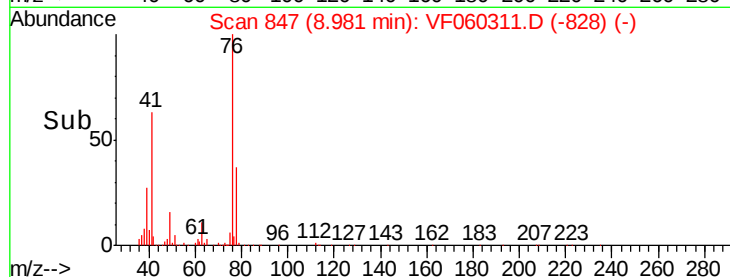
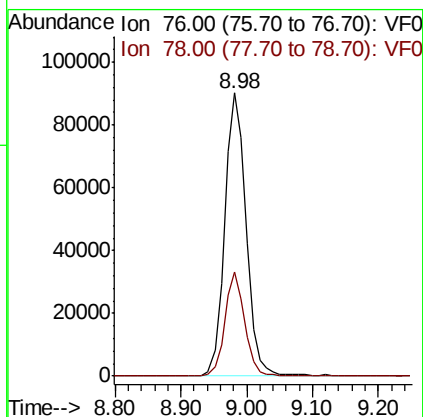
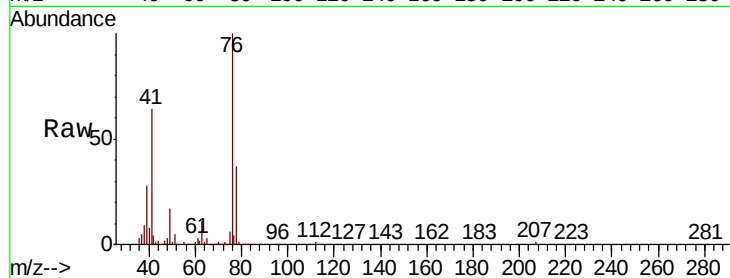
78 36.6 28.2 42.2

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



#58

2-Chloroethyl Vinyl ether

Concen: 257.595 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060311.D

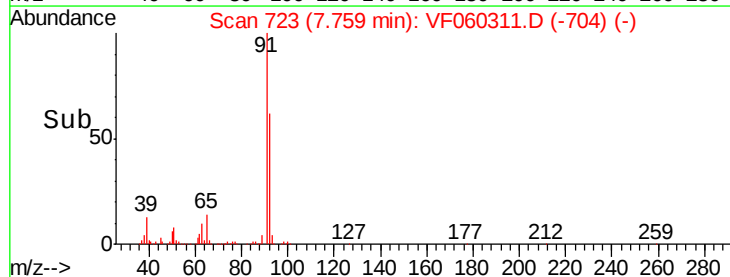
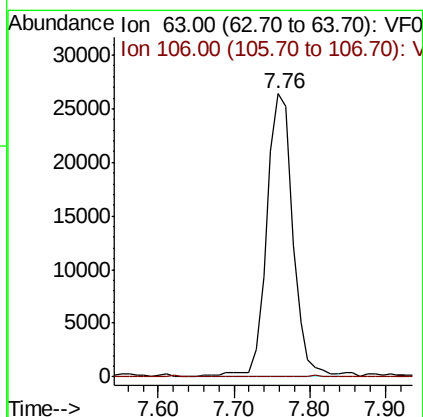
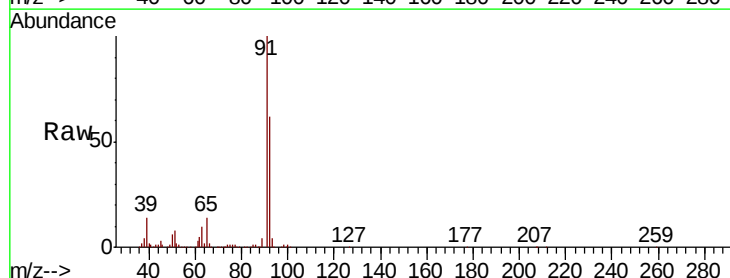
Acq: 21 Sep 2018 12:00

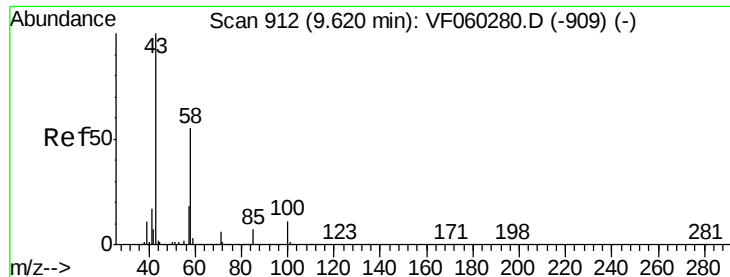
Tgt Ion: 63 Resp: 63726

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





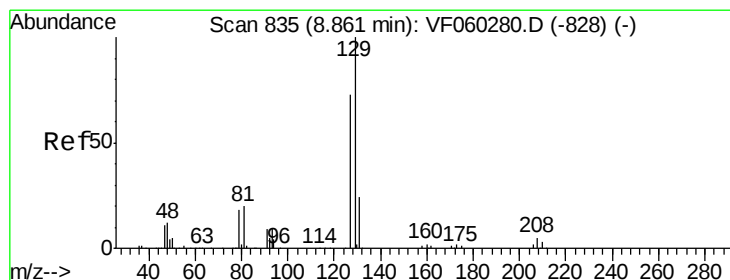
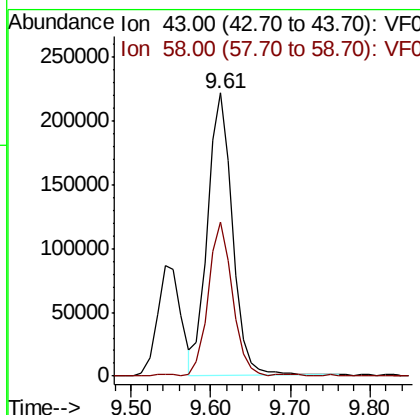
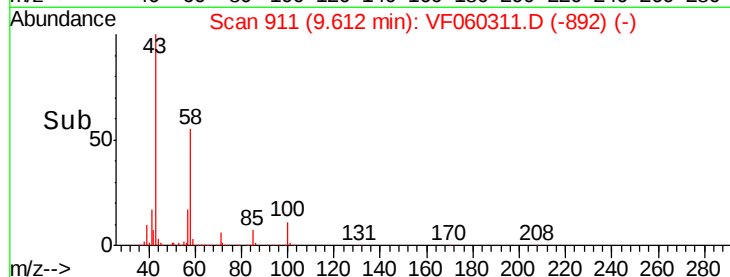
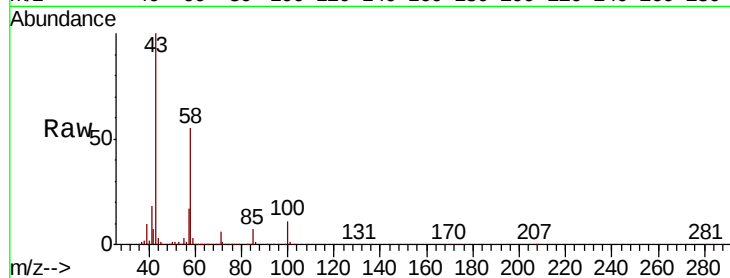
#59
2-Hexanone
Concen: 325.841 ug/l
RT: 9.61 min Scan# 911
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	Resp	484758
Ion Ratio	Lower	Upper	
43	100		
58	54.5	25.9	77.6

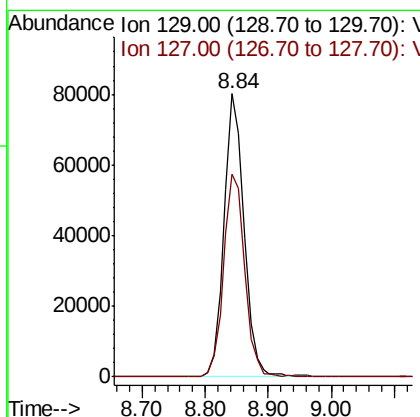
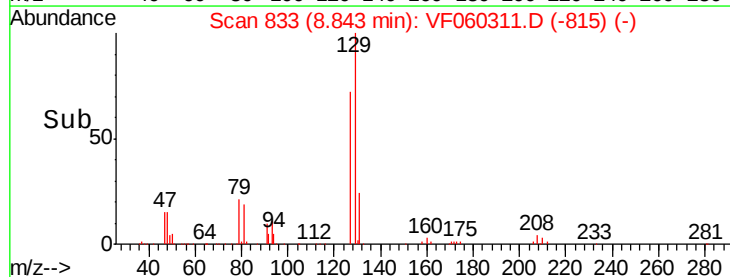
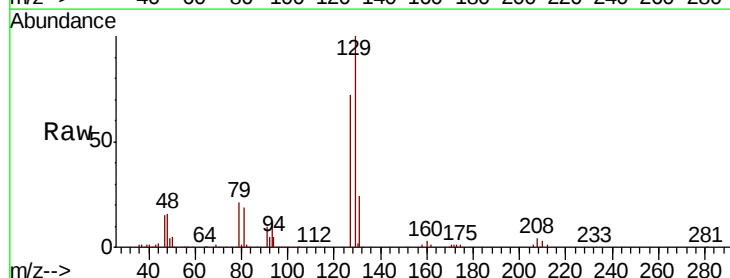
Manual Integrations
APPROVED

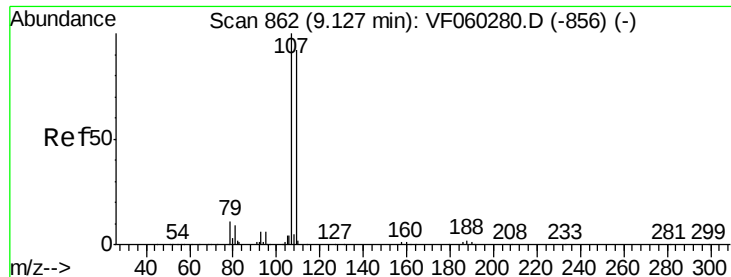
apatel
9/24/2018 12:51:14 PM



#60
Dibromochloromethane
Concen: 51.538 ug/l
RT: 8.84 min Scan# 833
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	129	Resp	177987
Ion Ratio	Lower	Upper	
129	100		
127	71.6	36.6	109.8





#61

1,2-Dibromoethane

Concen: 52.396 ug/l

RT: 9.12 min Scan# 861

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 135193

Ion Ratio Lower Upper

107 100

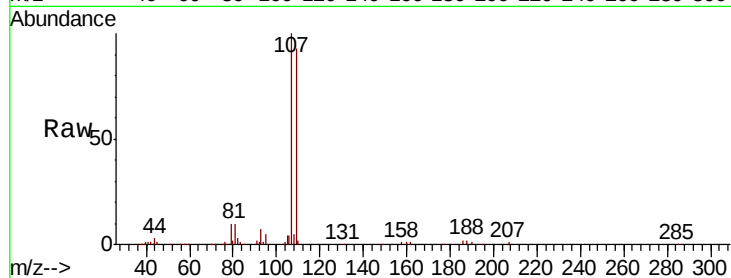
109 93.1 73.2 109.8

Manual Integrations

APPROVED

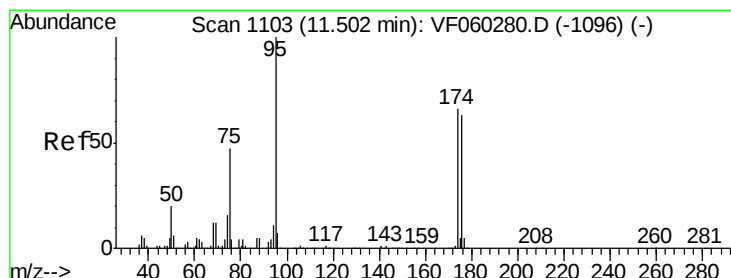
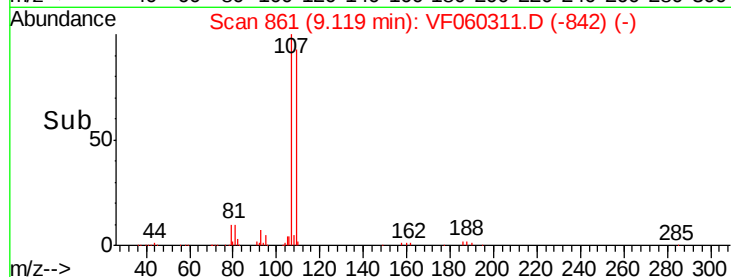
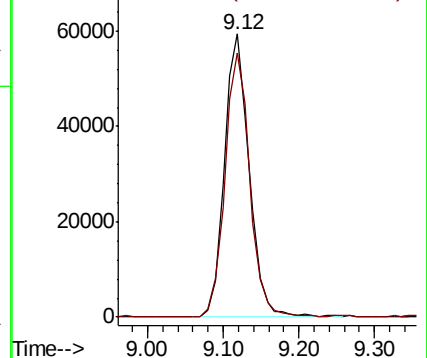
apatel

9/24/2018 12:51:14 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.792 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

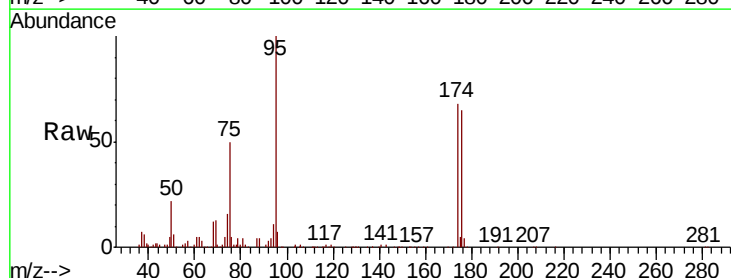
Tgt Ion: 95 Resp: 217469

Ion Ratio Lower Upper

95 100

174 67.8 0.0 131.2

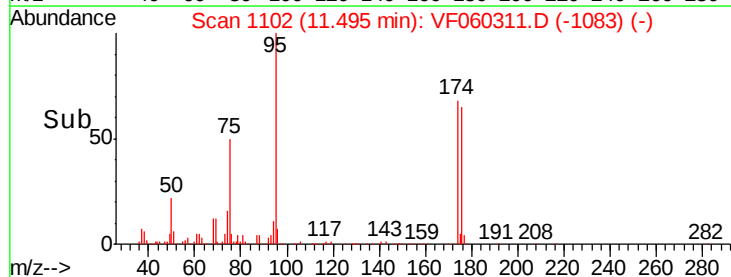
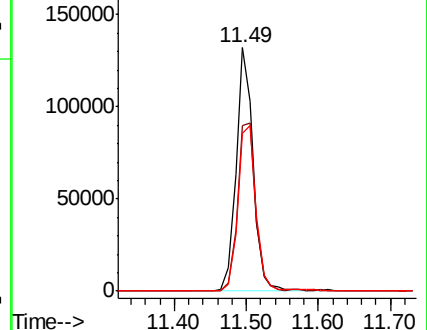
176 64.8 0.0 126.6

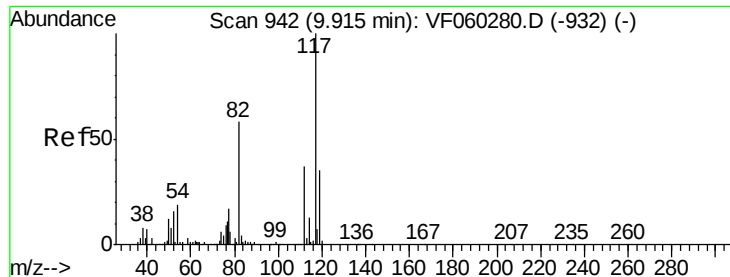


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





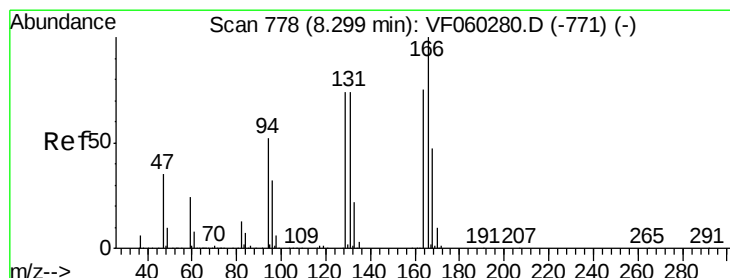
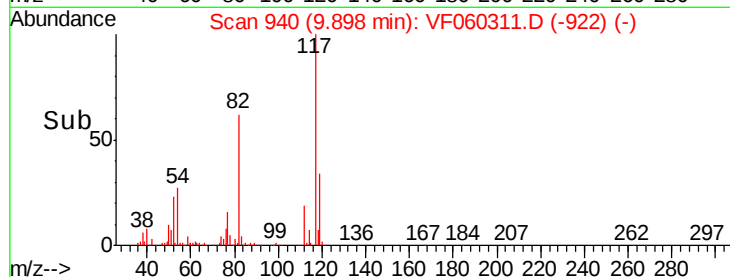
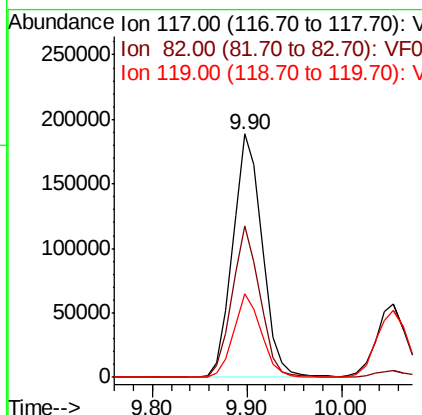
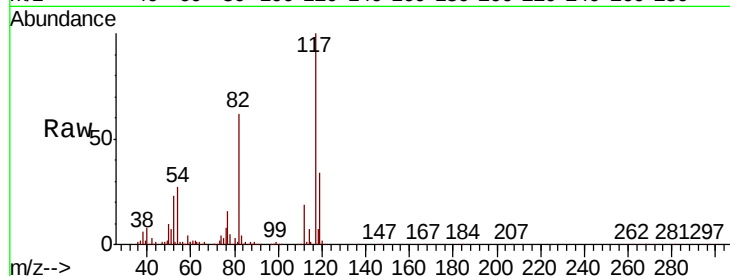
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.1	46.2	69.2
119	34.3	27.8	41.6

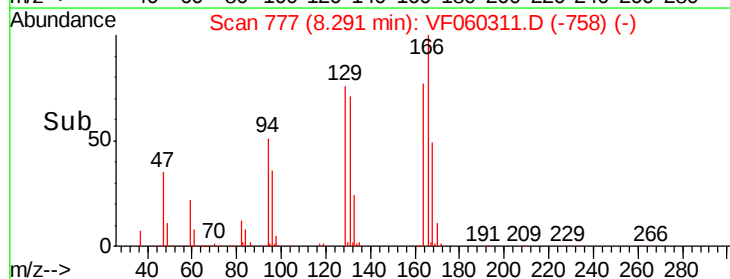
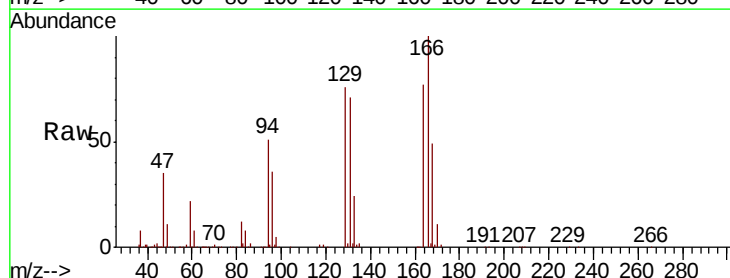
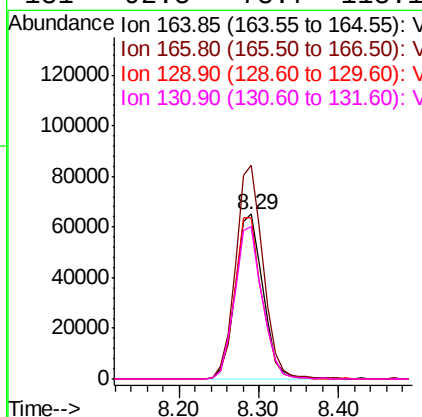
Manual Integrations
APPROVED

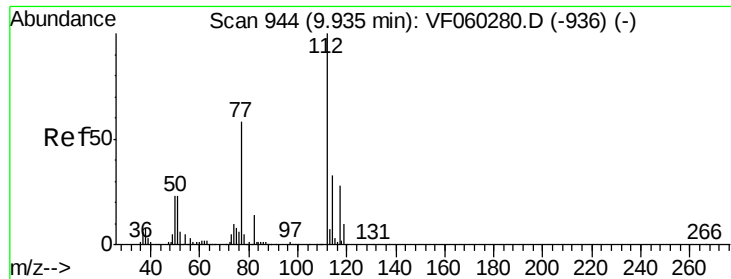
apatel
9/24/2018 12:51:14 PM



#64
Tetrachloroethene
Concen: 42.410 ug/l
RT: 8.29 min Scan# 777
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.8	106.8	160.2
129	98.3	78.8	118.2
131	92.5	78.7	118.1





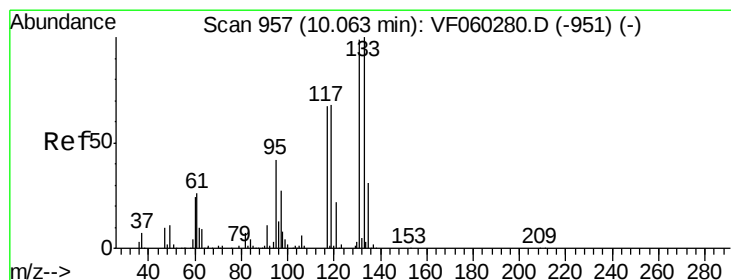
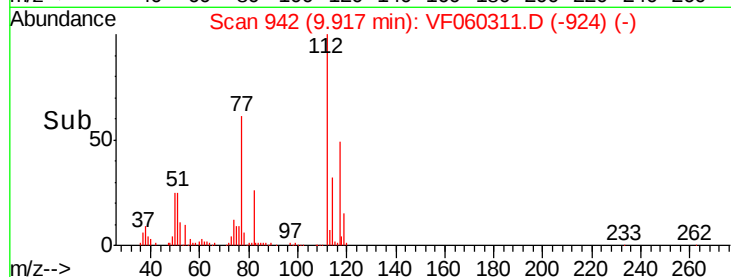
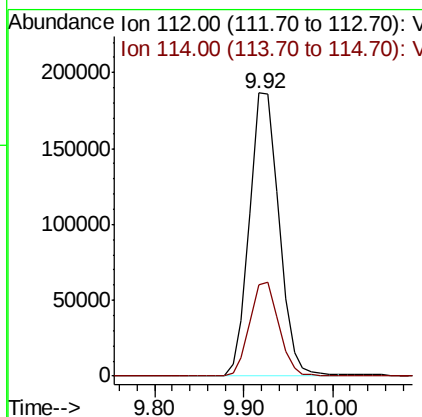
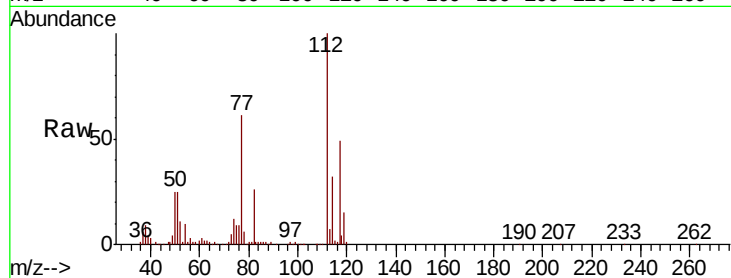
#65
Chlorobenzene
Concen: 46.469 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 429379
Ion Ratio Lower Upper
112 100
114 32.4 26.6 40.0

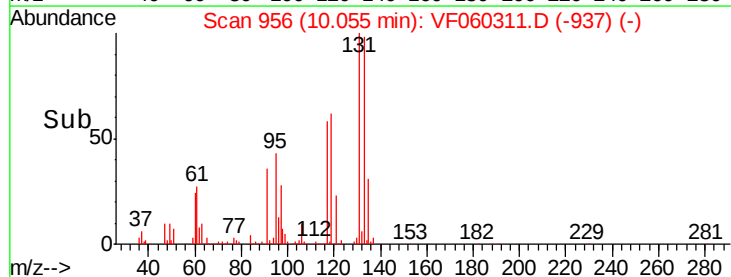
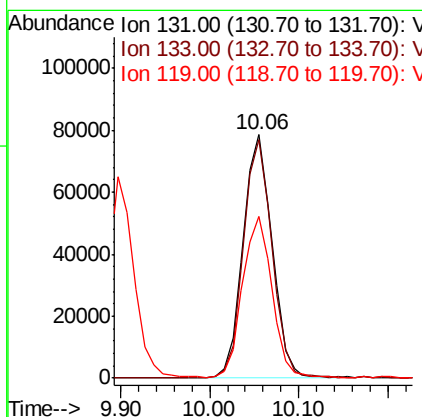
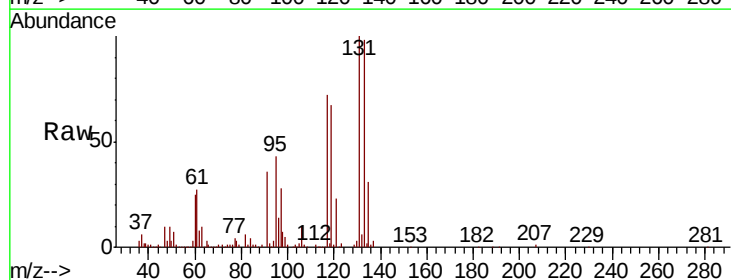
Manual Integrations
APPROVED

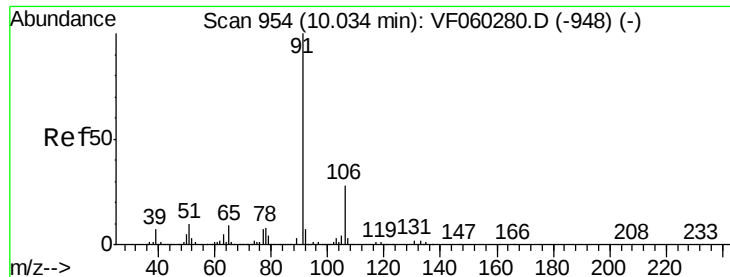
apatel
9/24/2018 12:51:14 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 46.311 ug/l
RT: 10.06 min Scan# 956
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion:131 Resp: 177586
Ion Ratio Lower Upper
131 100
133 98.2 50.4 151.2
119 66.5 34.8 104.3





#67

Ethyl Benzene

Concen: 44.838 ug/l

RT: 10.03 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 766040

Ion Ratio Lower Upper

91 100

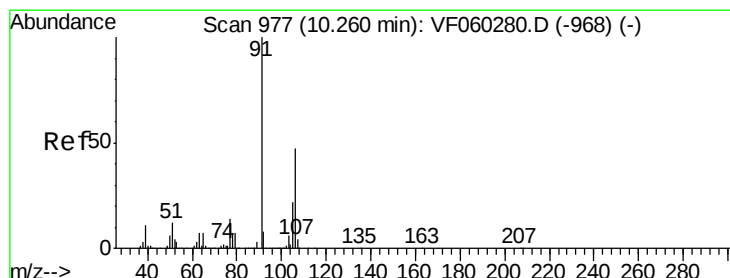
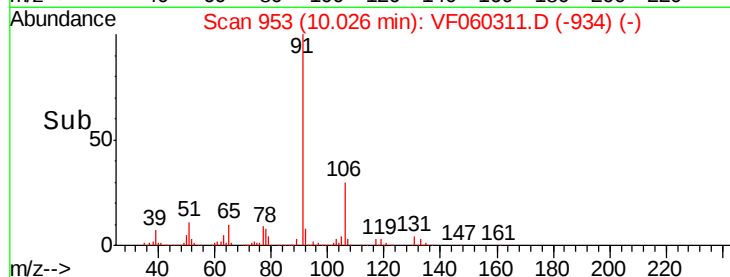
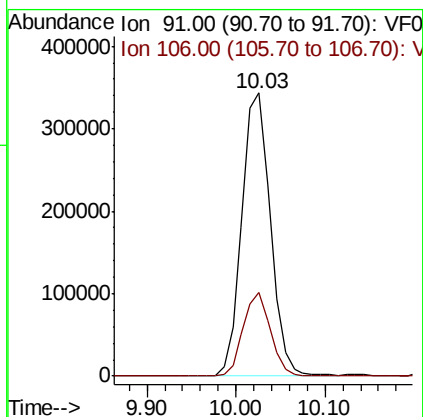
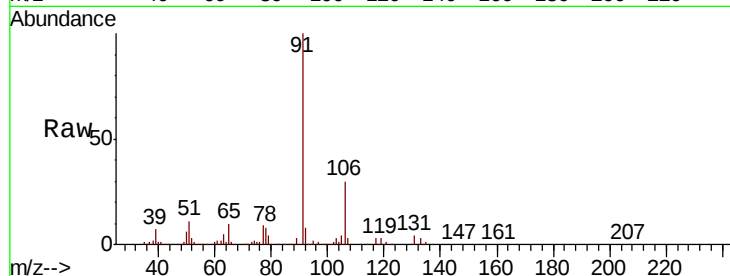
106 29.7 22.7 34.1

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



#68

m/p-Xylenes

Concen: 90.528 ug/l

RT: 10.25 min Scan# 976

Delta R.T. -0.01 min

Lab File: VF060311.D

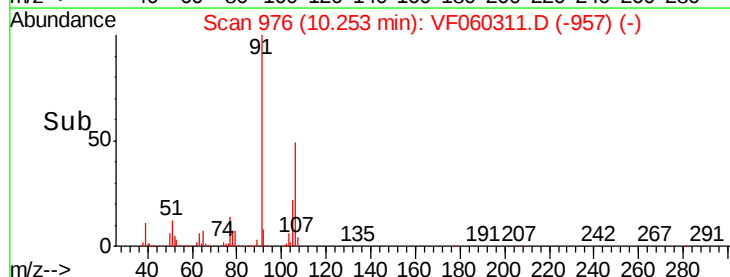
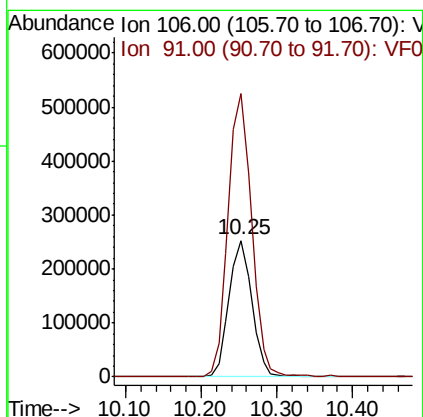
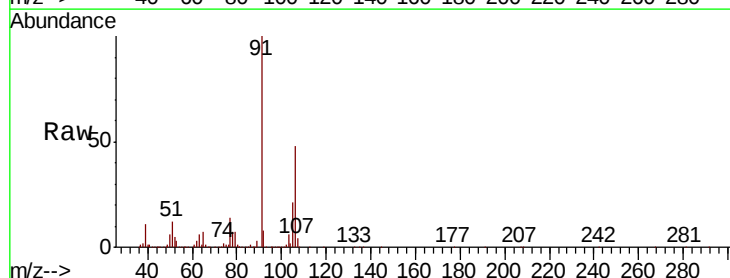
Acq: 21 Sep 2018 12:00

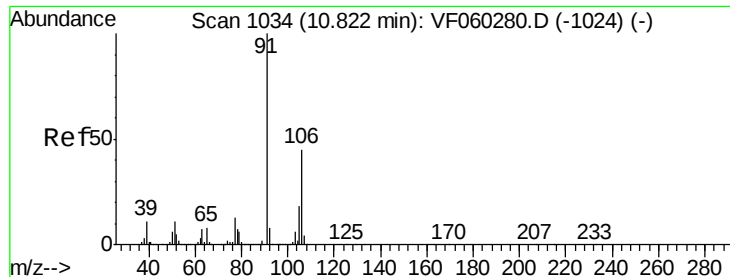
Tgt Ion:106 Resp: 534344

Ion Ratio Lower Upper

106 100

91 207.2 172.3 258.5





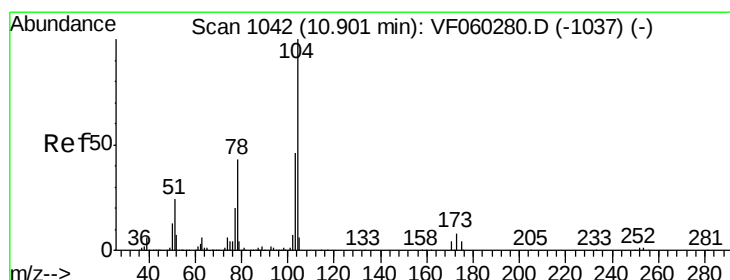
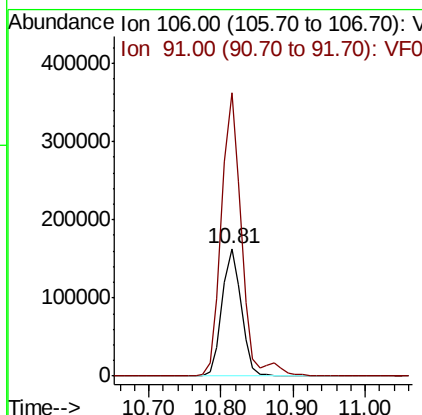
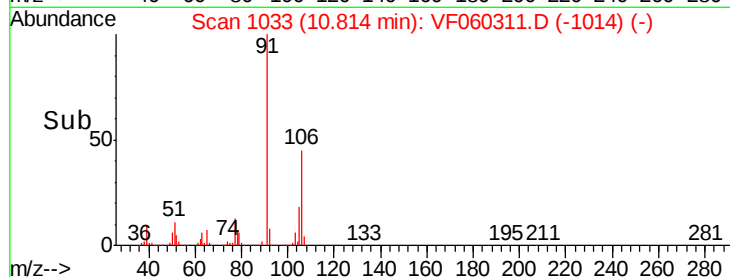
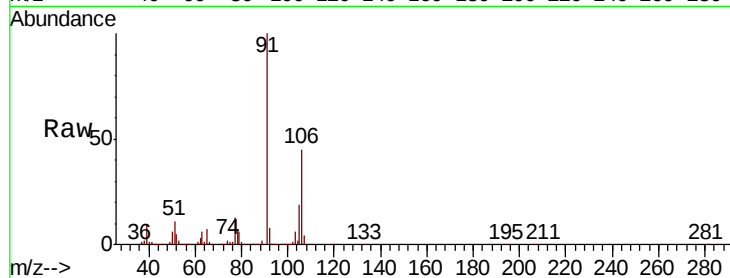
#69
o-Xylene
Concen: 45.697 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 302535
Ion Ratio Lower Upper
106 100
91 221.5 110.9 332.6

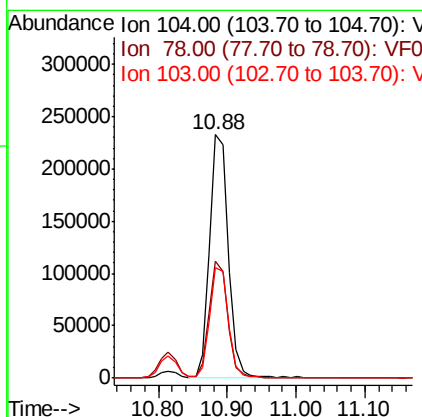
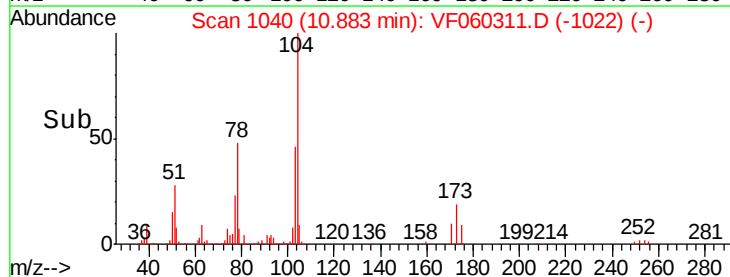
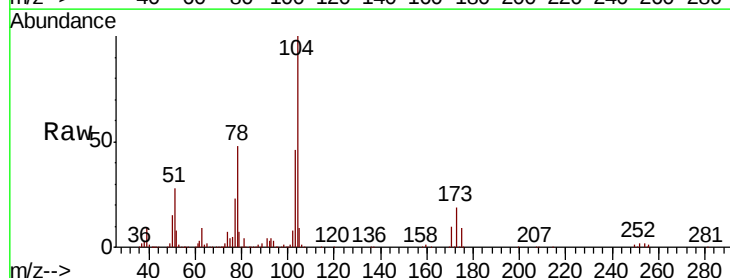
Manual Integrations
APPROVED

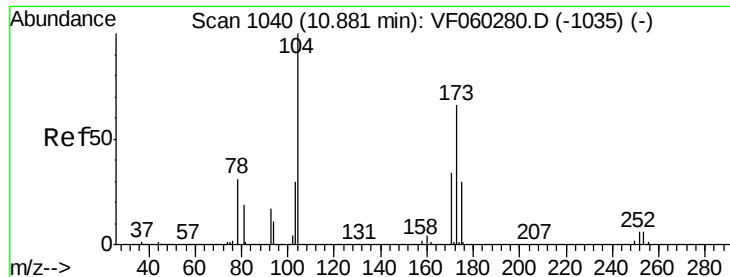
apatel
9/24/2018 12:51:14 PM



#70
Styrene
Concen: 47.000 ug/l
RT: 10.88 min Scan# 1040
Delta R.T. -0.02 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion:104 Resp: 438823
Ion Ratio Lower Upper
104 100
78 48.2 35.0 52.6
103 45.6 37.4 56.0





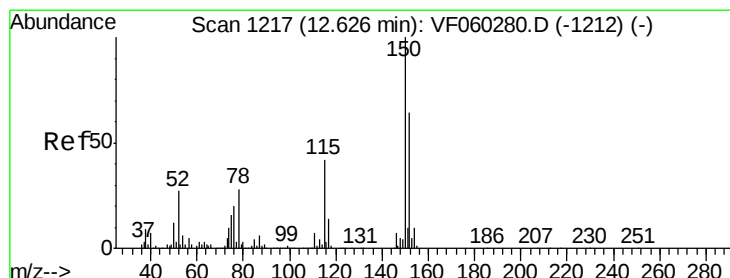
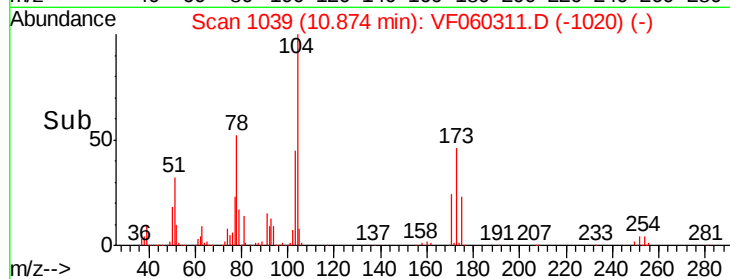
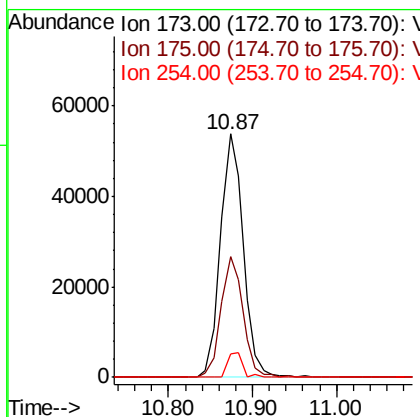
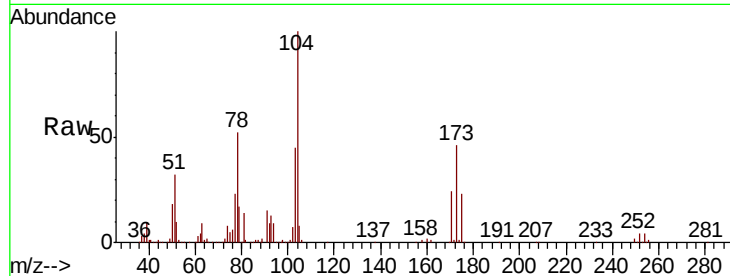
#71
Bromoform
Concen: 48.027 ug/l
RT: 10.87 min Scan# 1039
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	22.3	66.9
254	9.4	0.0	0.0#

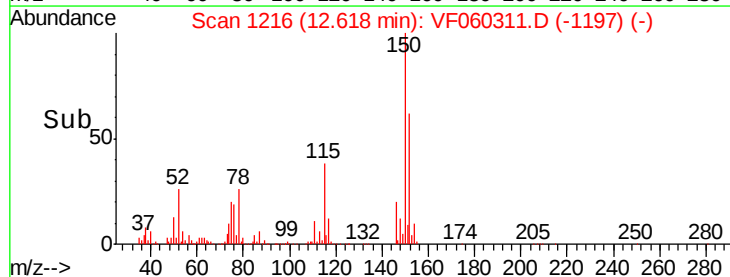
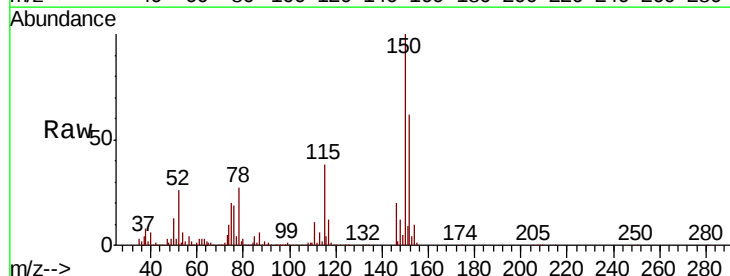
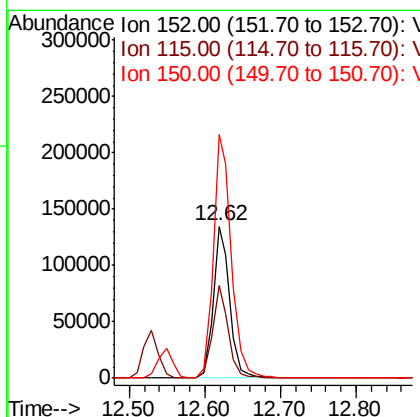
Manual Integrations
APPROVED

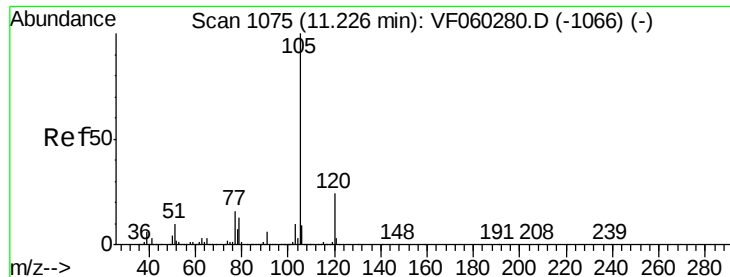
apatel
9/24/2018 12:51:14 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.1	32.6	97.8
150	160.4	0.0	314.2





#73

Isopropylbenzene

Concen: 46.321 ug/l

RT: 11.22 min Scan# 1074

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 860592

Ion Ratio Lower Upper

105 100

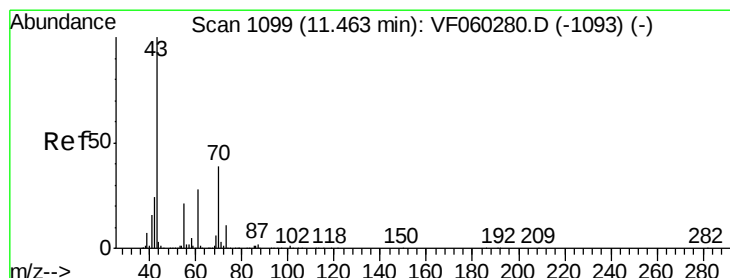
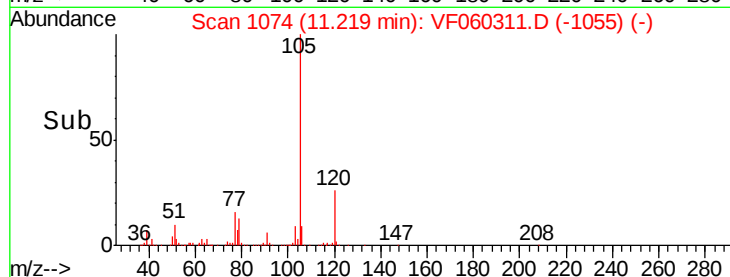
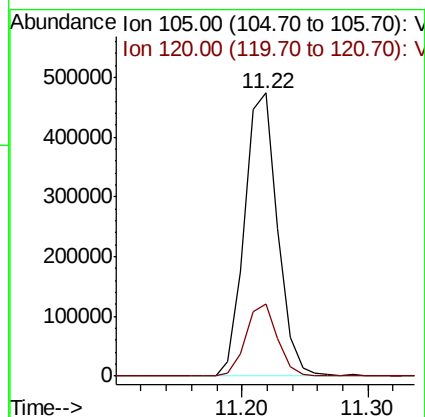
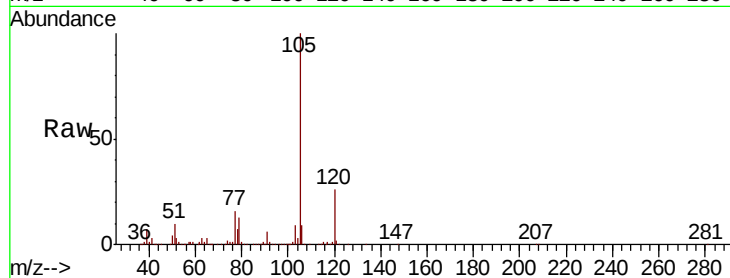
120 25.6 12.2 36.6

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



#74

N-ethyl acetate

Concen: 57.155 ug/l

RT: 11.46 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion: 43 Resp: 226440

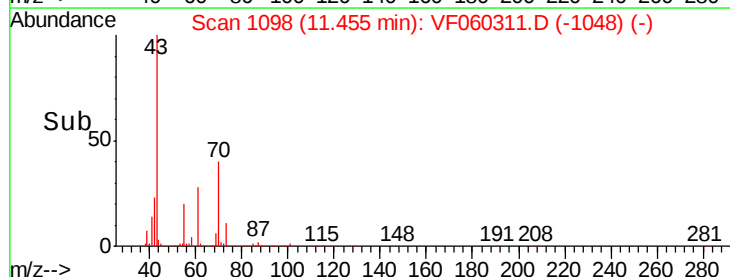
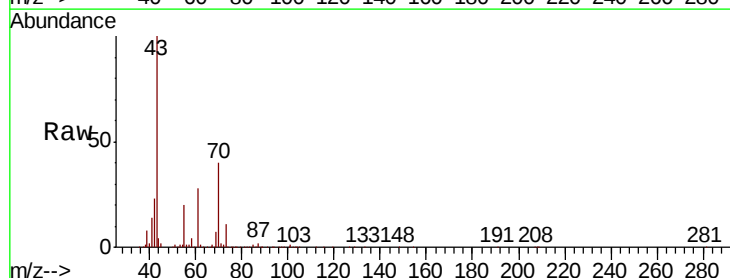
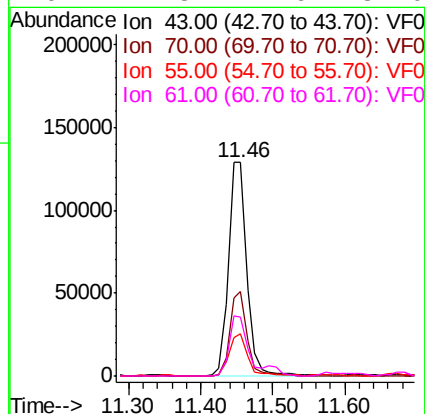
Ion Ratio Lower Upper

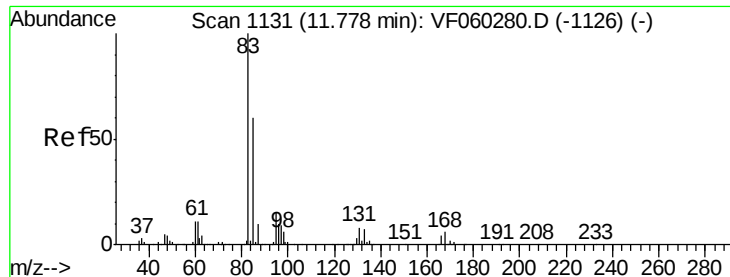
43 100

70 39.6 31.4 47.2

55 19.9 16.8 25.2

61 27.8 22.6 34.0





#75

1,1,2,2-Tetrachloroethane

Concen: 49.766 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

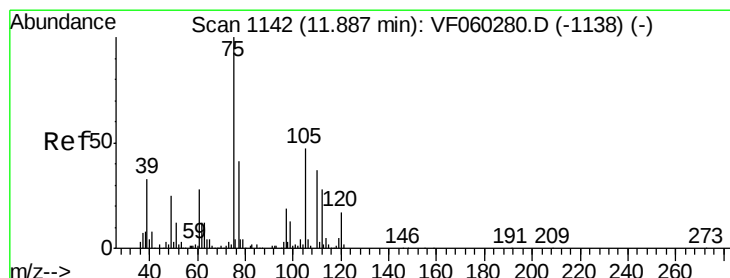
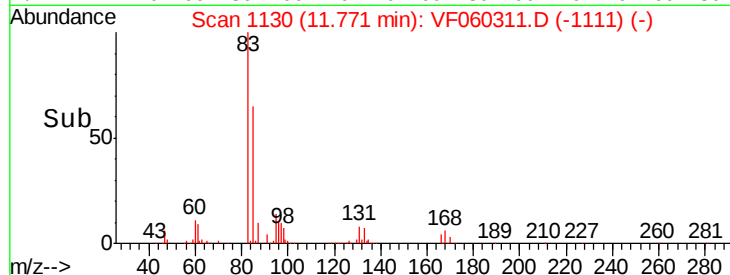
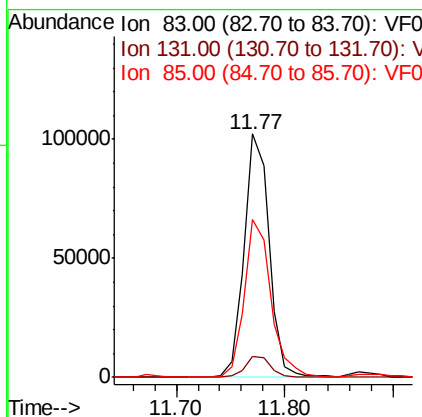
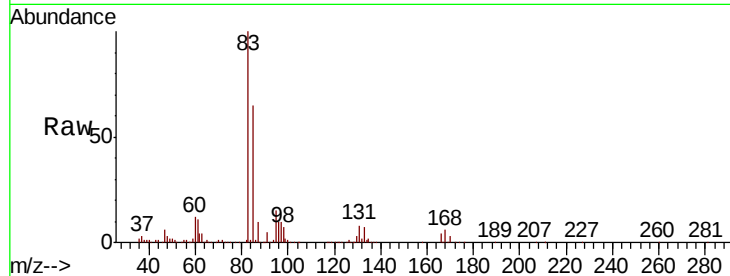
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	163861
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.2	12.4
85	64.9	30.1	90.5

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#76

1,2,3-Trichloropropane

Concen: 49.447 ug/l

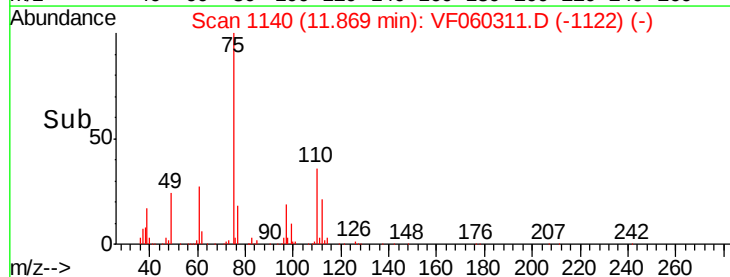
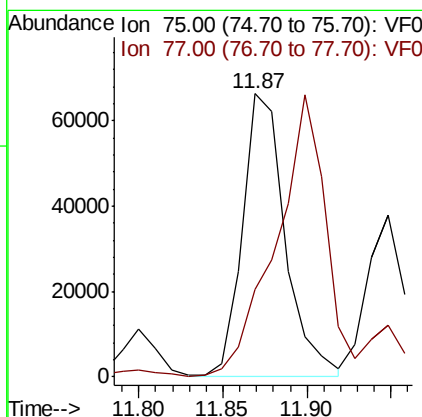
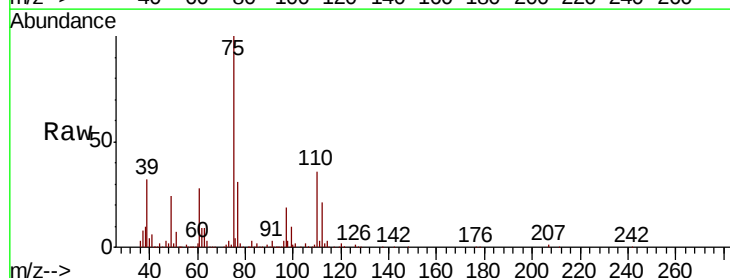
RT: 11.87 min Scan# 1140

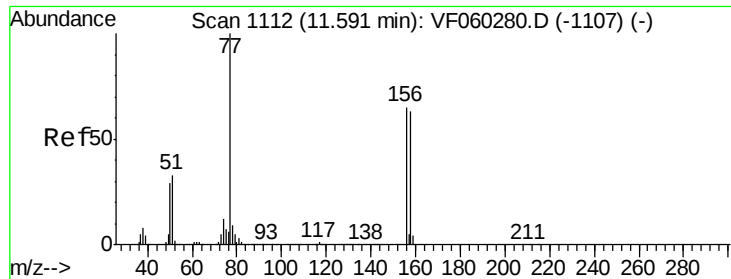
Delta R.T. -0.02 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	75	Resp:	116575
Ion Ratio	Lower	Upper	
75	100		
77	31.1	20.5	61.5





#77

Bromobenzene

Concen: 44.888 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

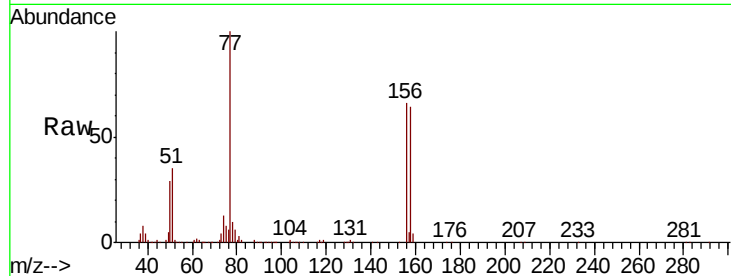
VSTDCCC050

Tot Ion:	156	Resp:	179730
Ion Ratio	Lower	Upper	
156	100		
77	151.7	77.3	232.1
158	97.7	48.4	145.2

Manual Integrations
APPROVED

apatel

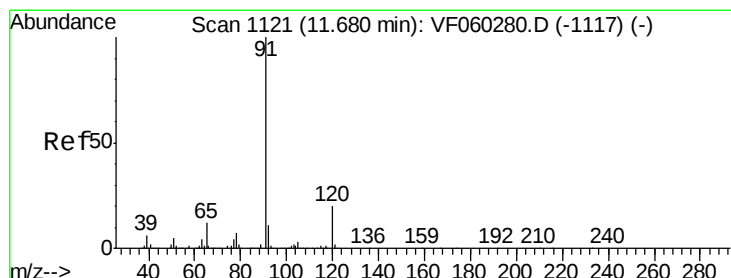
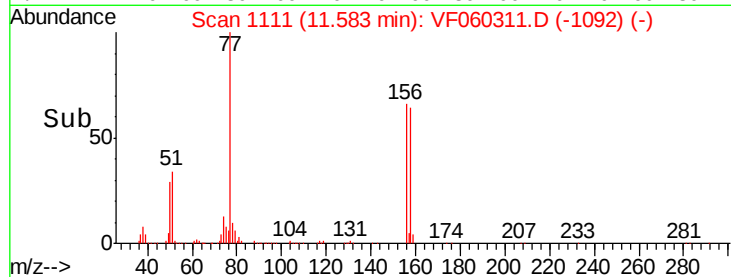
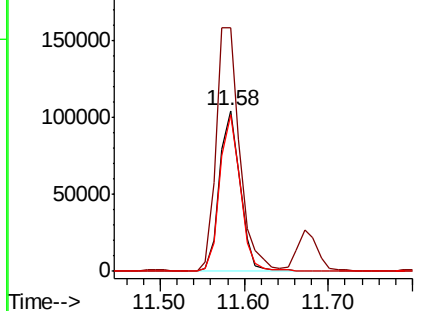
9/24/2018 12:51:14 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 58.268 ug/l

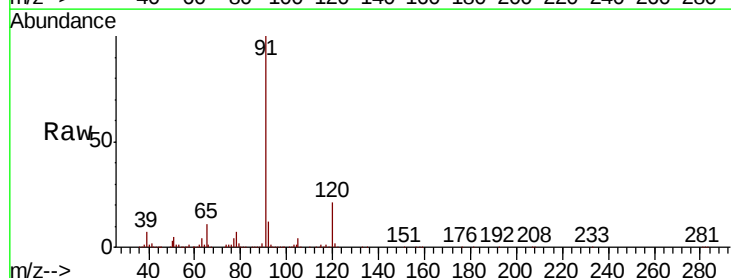
RT: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060311.D

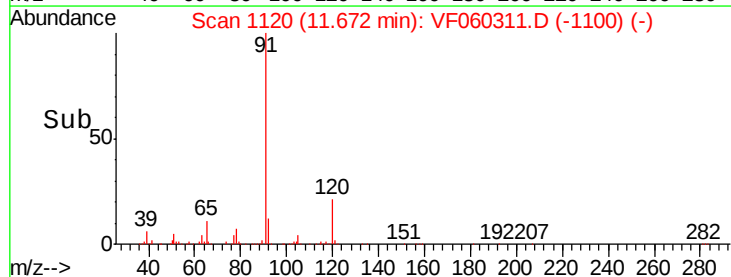
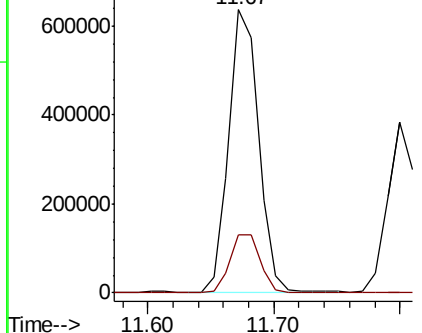
Acq: 21 Sep 2018 12:00

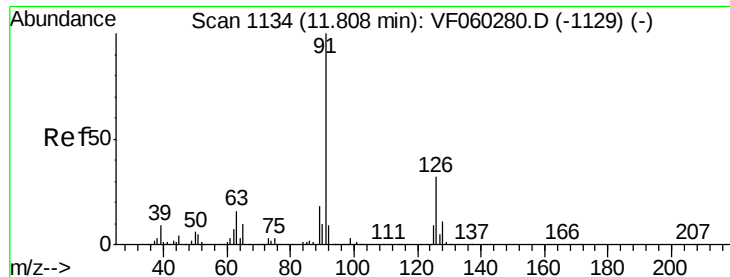
Tgt Ion:	91	Resp:	1041595
Ion Ratio	Lower	Upper	
91	100		
120	20.6	10.0	29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.896 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 600260

Ion Ratio Lower Upper

91 100

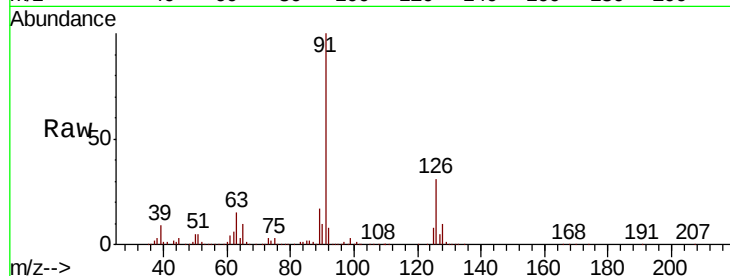
126 31.2 16.1 48.3

Manual Integrations

APPROVED

apatel

9/24/2018 12:51:14 PM



Abundance Ion 91.00 (90.70 to 91.70): VF060280.D (-1129) (-)

Ion 126.00 (125.70 to 126.70): VF060280.D (-1129) (-)

11.80

400000

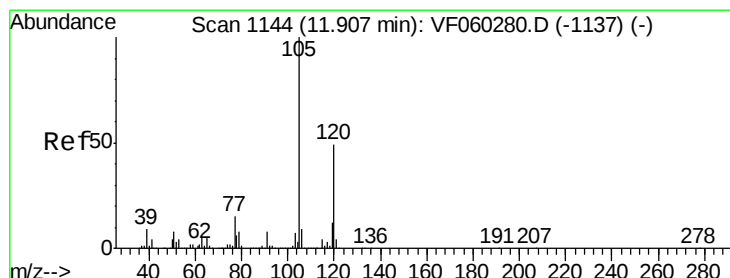
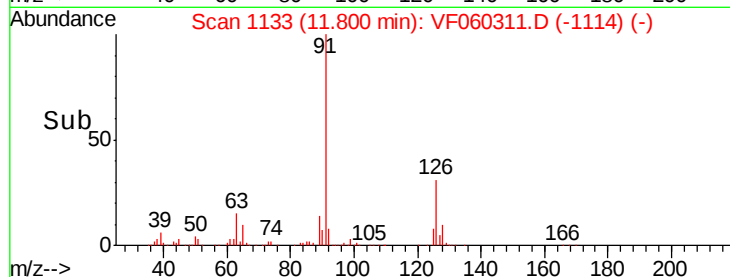
300000

200000

100000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 46.490 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF060311.D

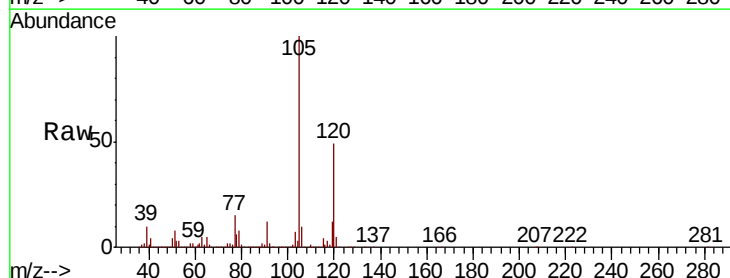
Acq: 21 Sep 2018 12:00

Tgt Ion: 105 Resp: 695283

Ion Ratio Lower Upper

105 100

120 49.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VF060280.D (-1137) (-)

Ion 120.00 (119.70 to 120.70): VF060280.D (-1137) (-)

11.90

500000

400000

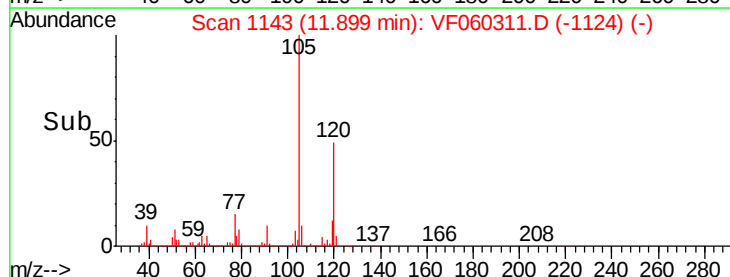
300000

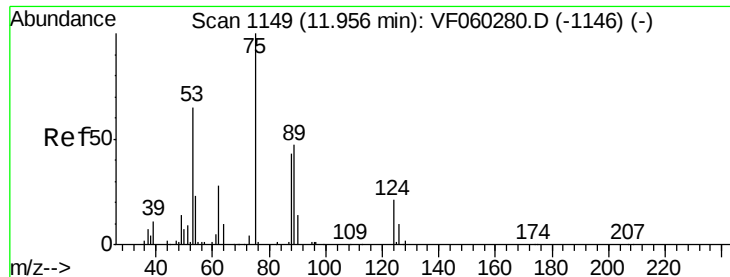
200000

100000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 49.696 ug/l m

RT: 11.95 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

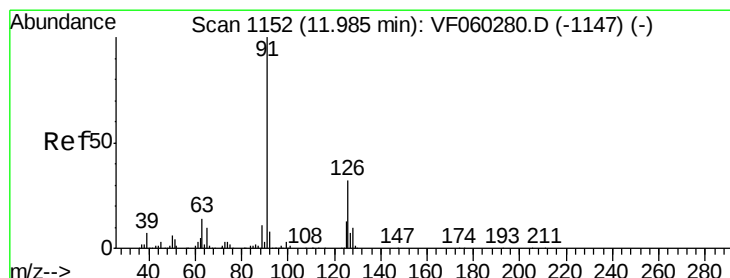
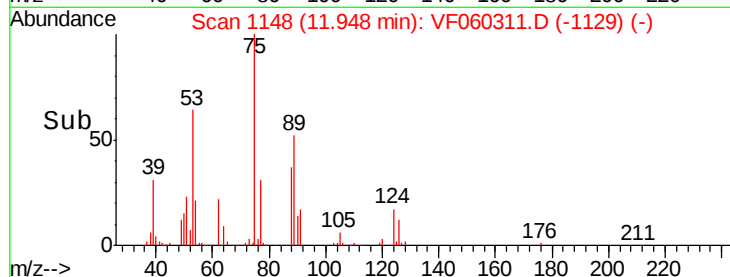
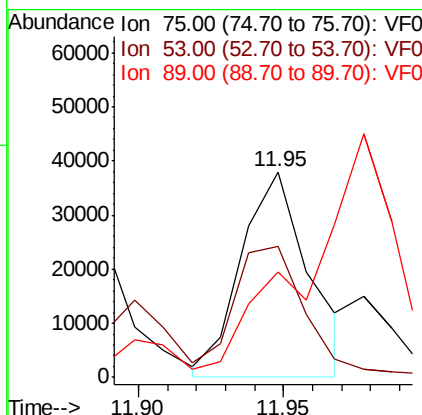
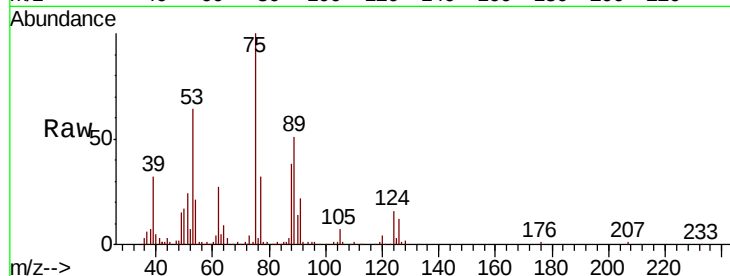
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	61916
Ion	Ratio	Lower	Upper
75	100		
53	63.8	56.5	84.7
89	51.4	40.6	60.8

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#82

4-Chlorotoluene

Concen: 47.714 ug/l

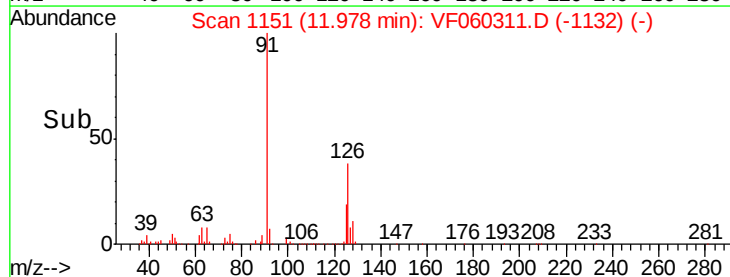
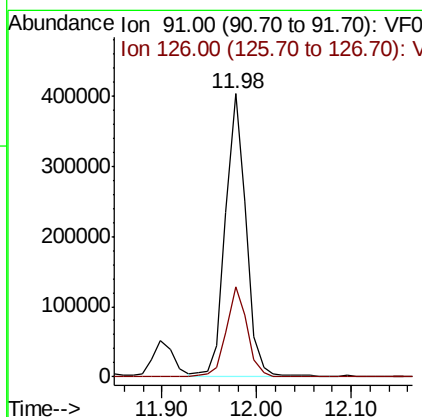
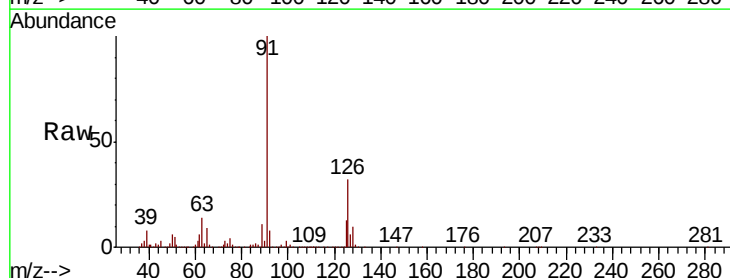
RT: 11.98 min Scan# 1151

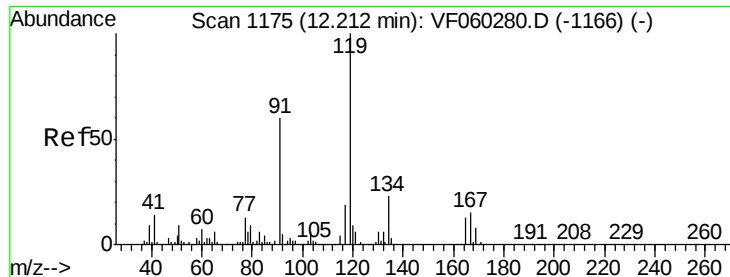
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	91	Resp:	601032
Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.1	48.2





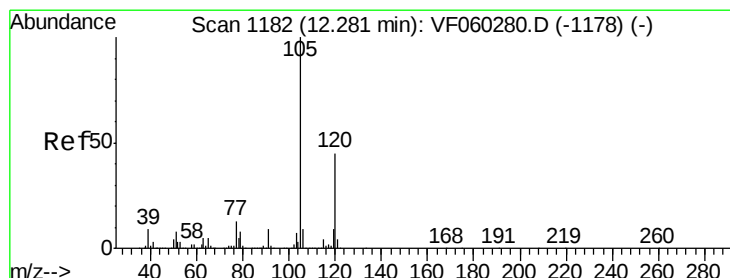
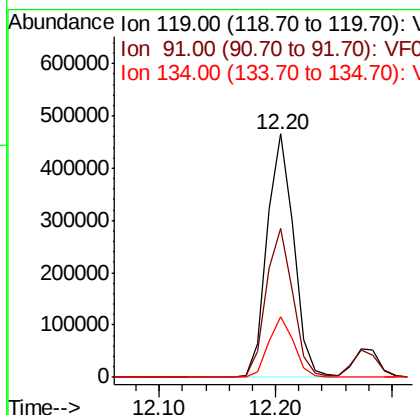
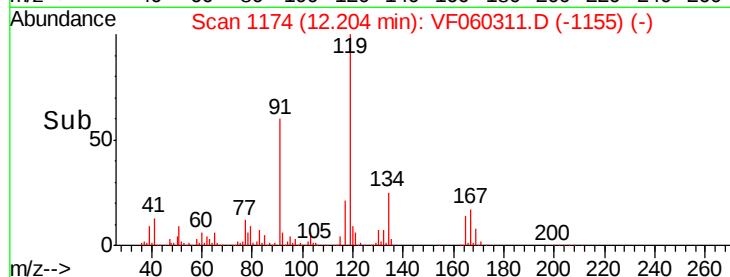
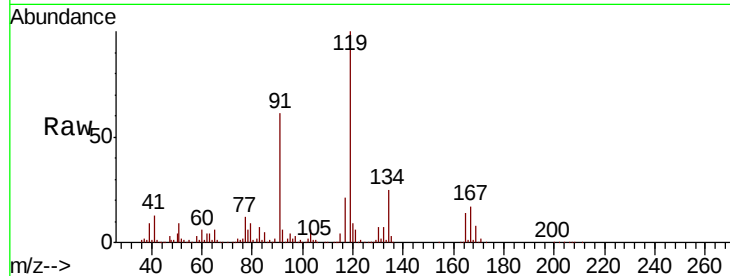
#83
tert-Butylbenzene
Concen: 48.705 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	738400		
91	61.4	30.3	91.0	
134	24.8	11.6	34.8	

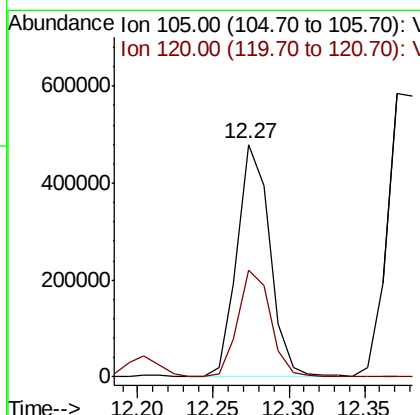
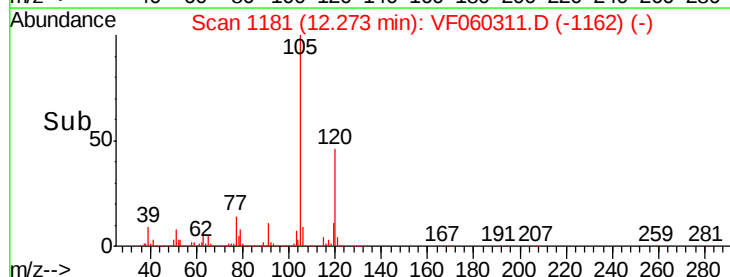
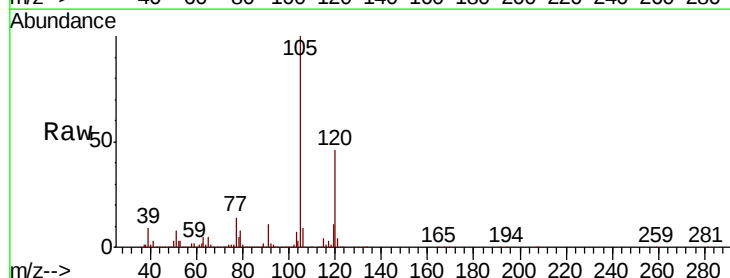
Manual Integrations
APPROVED

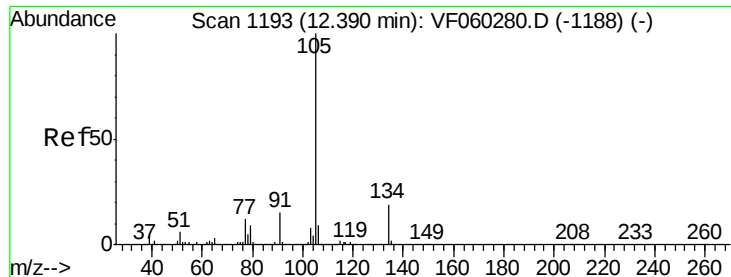
apatel
9/24/2018 12:51:14 PM



#84
1,2,4-Trimethylbenzene
Concen: 47.750 ug/l
RT: 12.27 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	725150		
120	45.7	22.4	67.0	





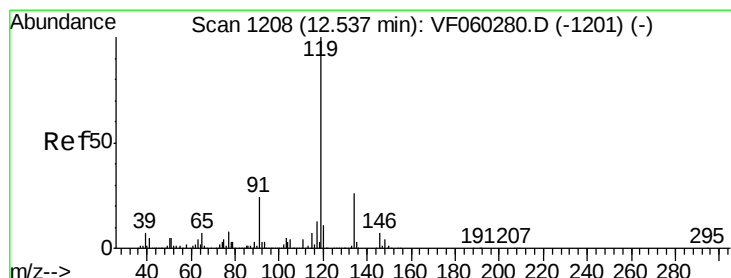
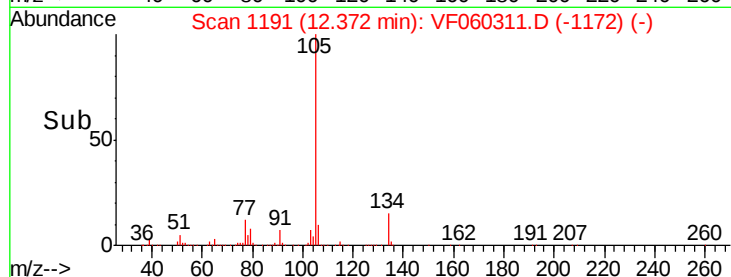
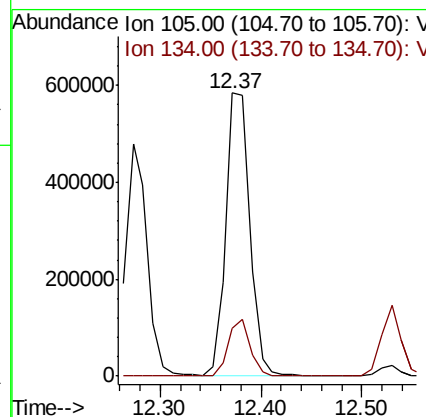
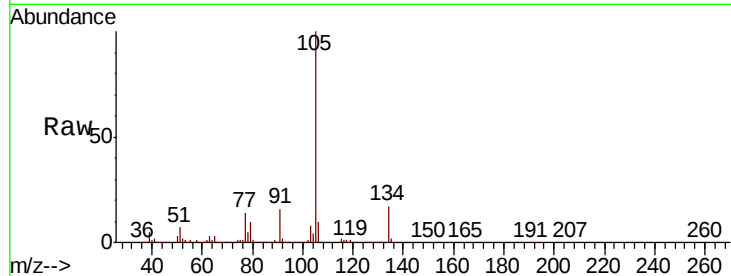
#85
 sec-Butylbenzene
 Concen: 56.082 ug/l
 RT: 12.37 min Scan# 1191
 Delta R.T. -0.02 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
105	100	972064		
134	16.7	9.6	28.6	

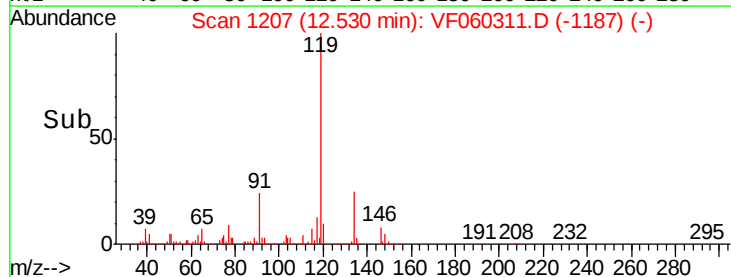
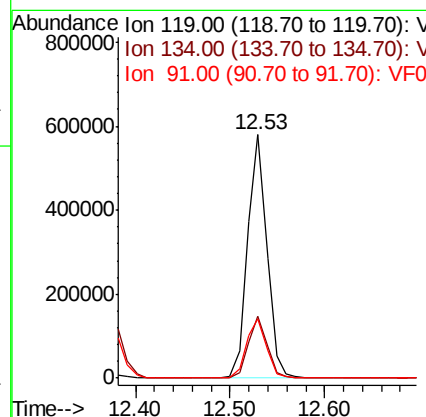
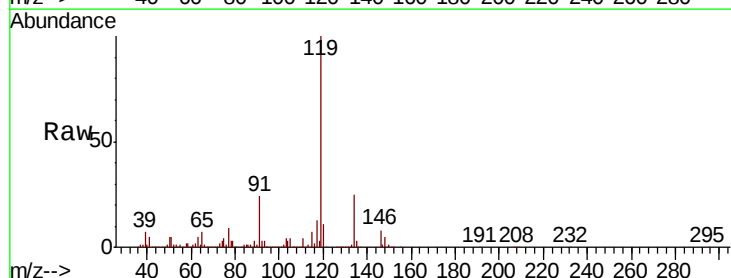
Manual Integrations
 APPROVED

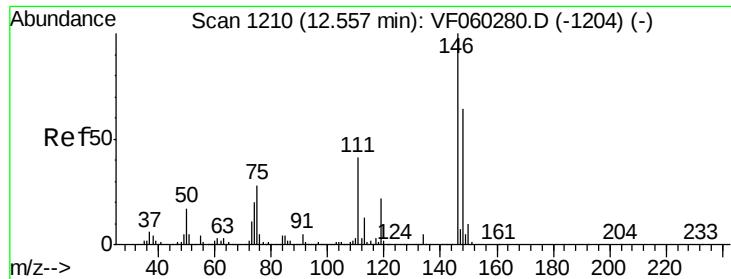
apatel
 9/24/2018 12:51:14 PM



#86
 p-Isopropyltoluene
 Concen: 59.291 ug/l
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	815511		
134	25.3	12.9	38.7	
91	24.3	11.9	35.7	





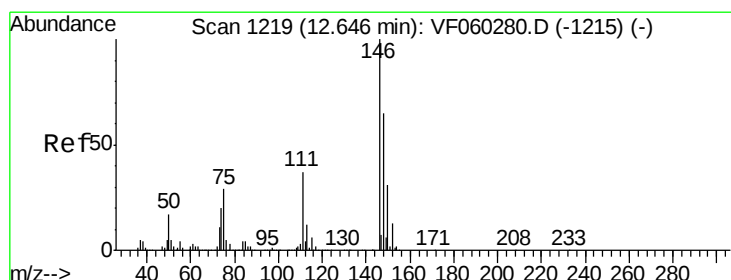
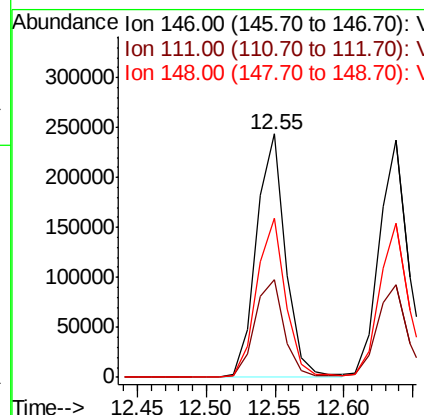
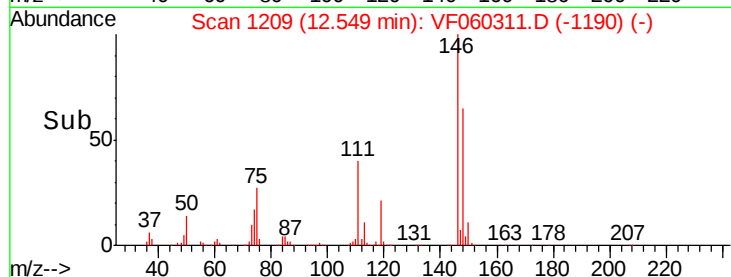
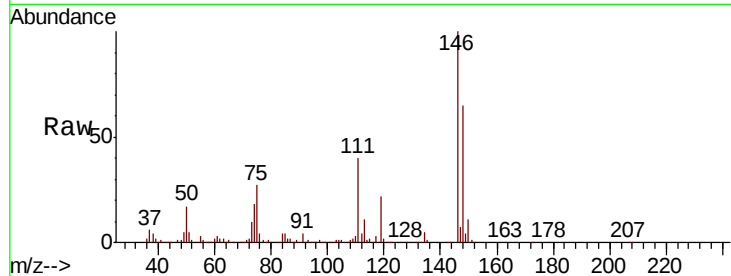
#87
 1,3-Dichlorobenzene
 Concen: 48.356 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.5	61.6
148	65.2	32.2	96.6

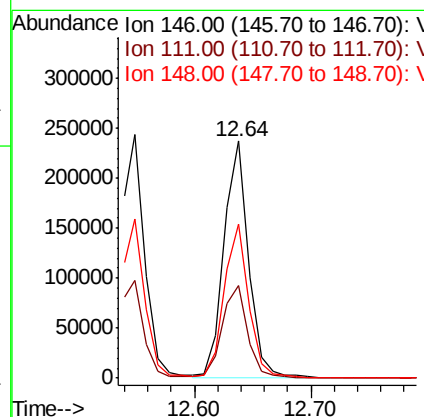
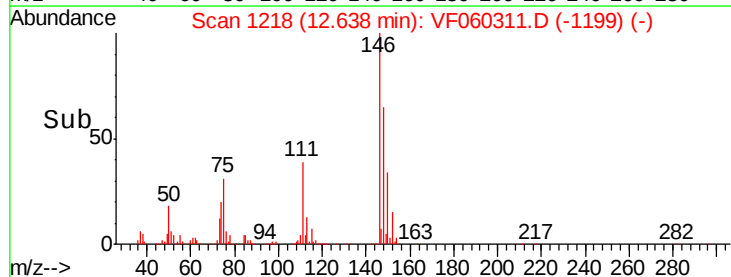
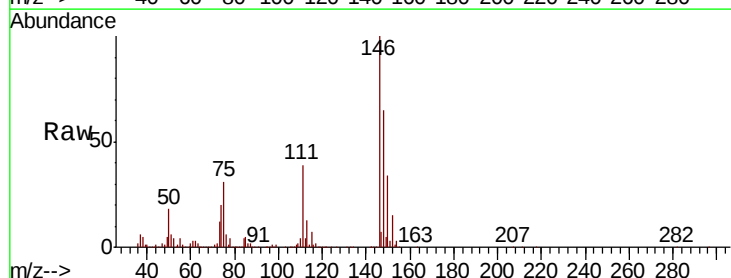
Manual Integrations
 APPROVED

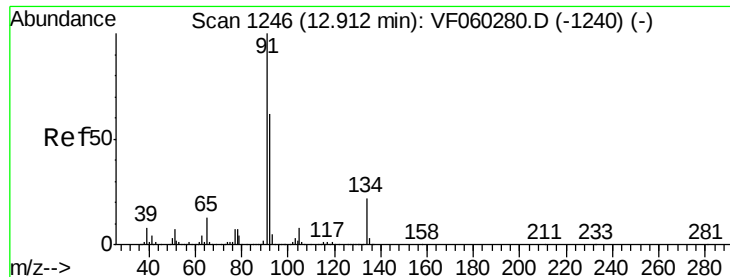
apatel
 9/24/2018 12:51:14 PM



#88
 1,4-Dichlorobenzene
 Concen: 47.097 ug/l
 RT: 12.64 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	18.7	56.1
148	64.9	32.4	97.0





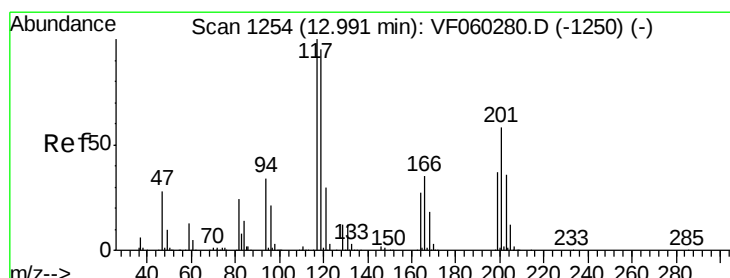
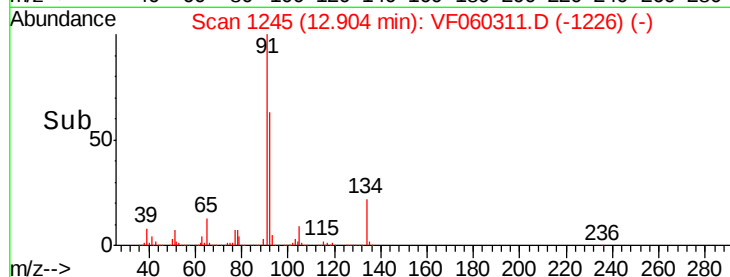
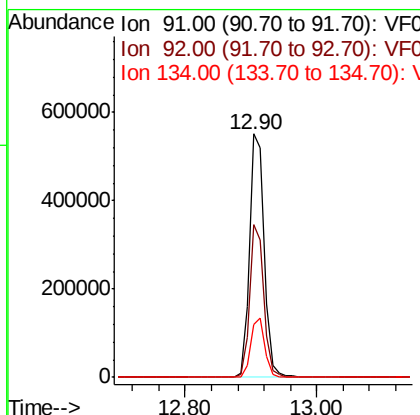
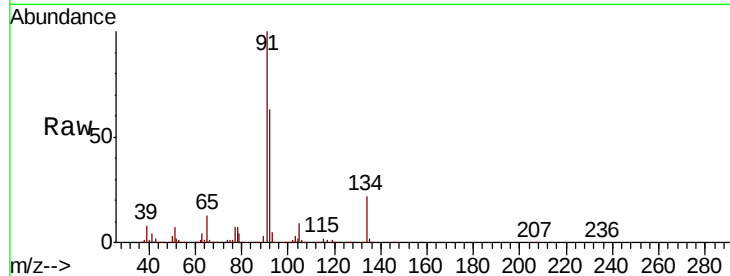
#89
n-Butylbenzene
Concen: 55.424 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	62.7	31.1	93.5	
134	21.6	11.0	33.0	

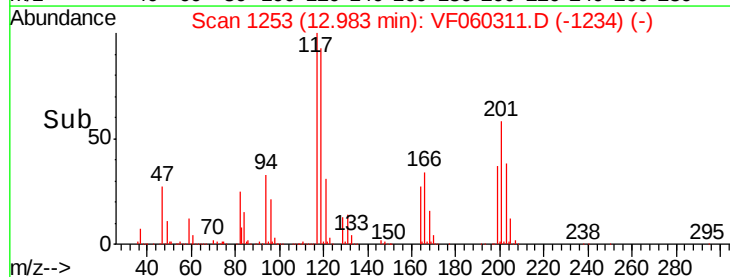
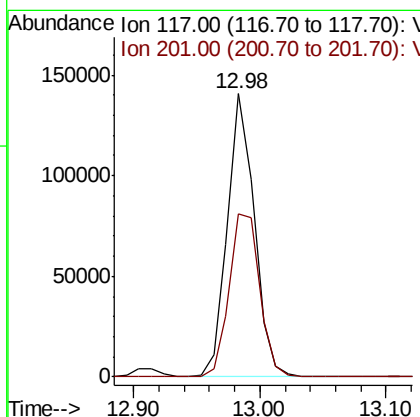
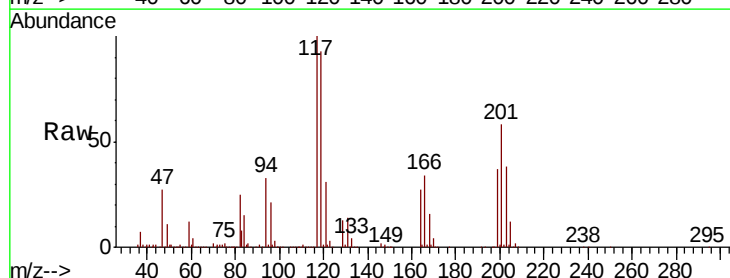
Manual Integrations
APPROVED

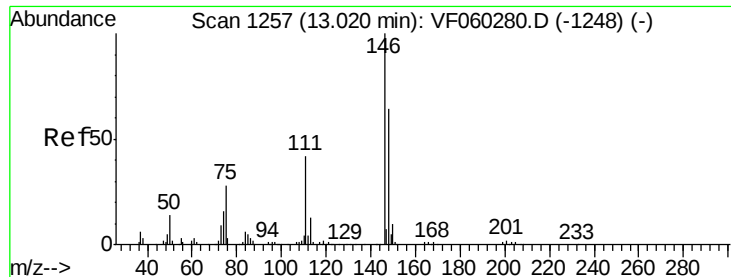
apatel
9/24/2018 12:51:14 PM



#90
Hexachloroethane
Concen: 48.694 ug/l
RT: 12.98 min Scan# 1253
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	57.6	29.0	87.0	





#91

1,2-Dichlorobenzene

Concen: 47.291 ug/l

RT: 13.01 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Instrument :

MSVOA_F

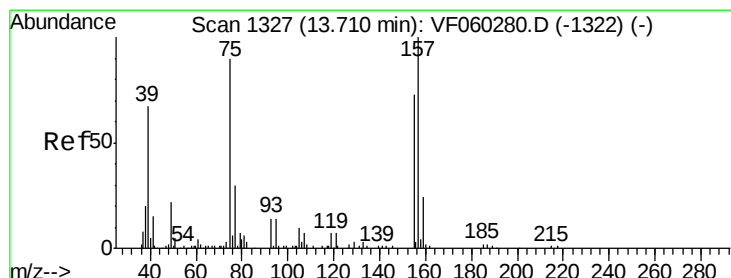
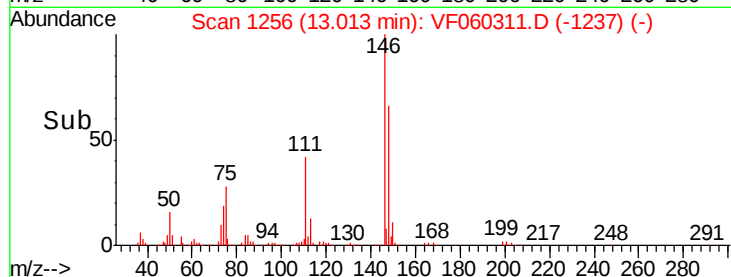
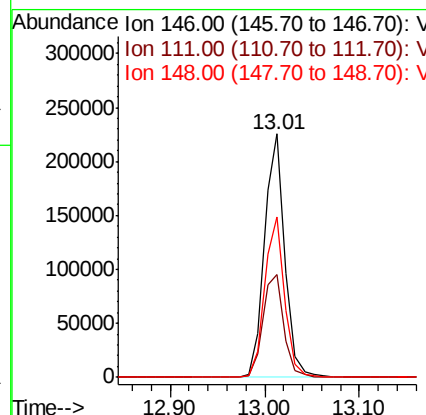
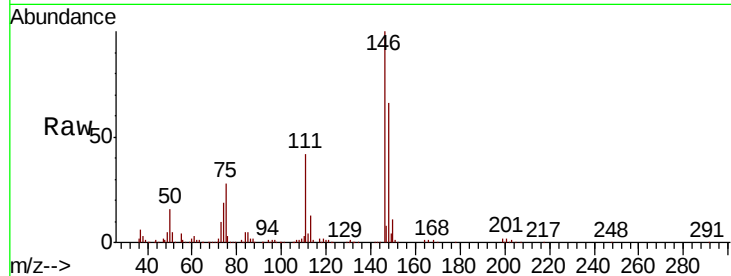
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	337536
Ion Ratio	Lower	Upper	
146	100		
111	42.0	20.9	62.8
148	65.7	31.9	95.9

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.032 ug/l

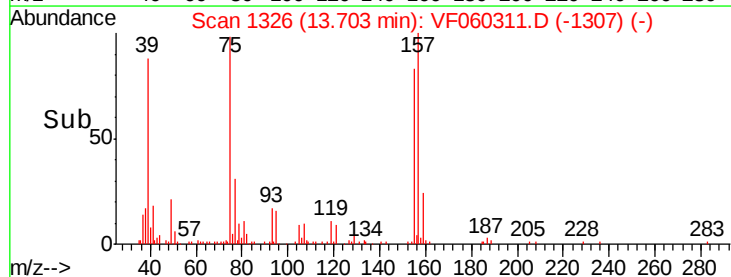
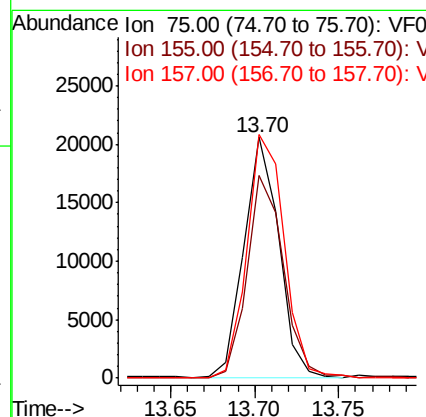
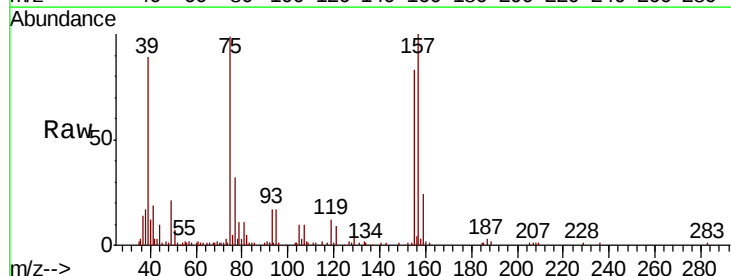
RT: 13.70 min Scan# 1326

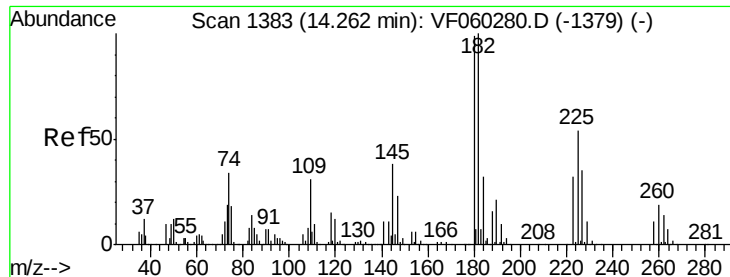
Delta R.T. -0.01 min

Lab File: VF060311.D

Acq: 21 Sep 2018 12:00

Tgt Ion:	75	Resp:	29693
Ion Ratio	Lower	Upper	
75	100		
155	84.3	41.9	125.7
157	101.0	57.4	172.0





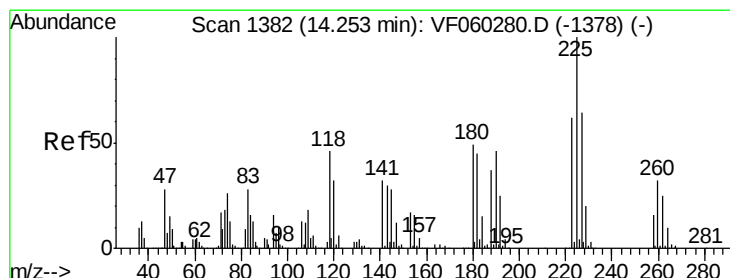
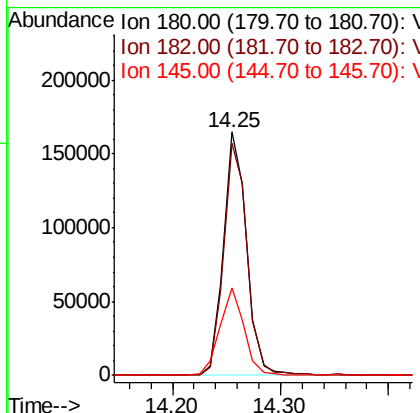
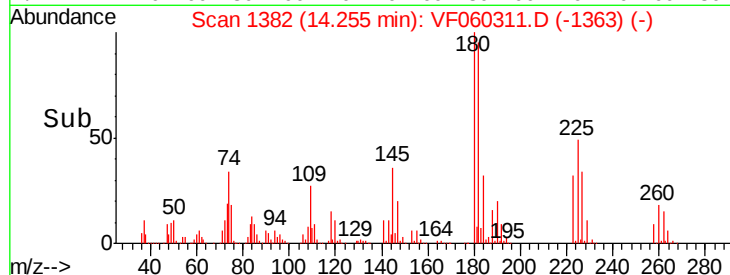
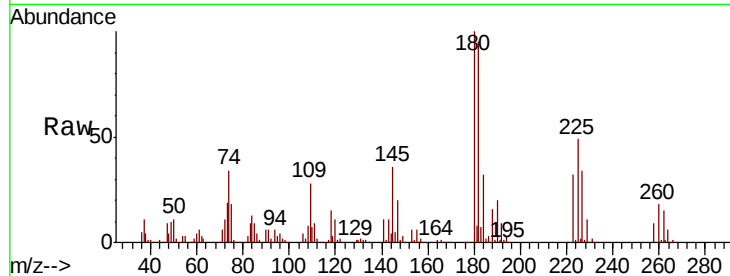
#93
 1,2,4-Trichlorobenzene
 Concen: 47.154 ug/l
 RT: 14.25 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	244623		
182	95.3	50.3	151.0	
145	36.2	18.9	56.9	

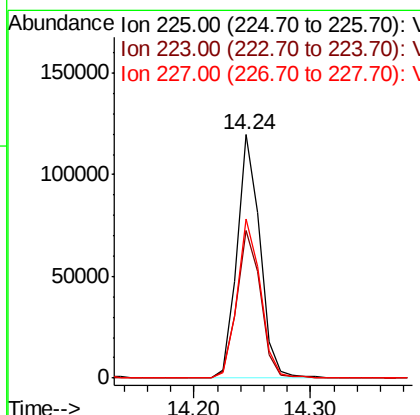
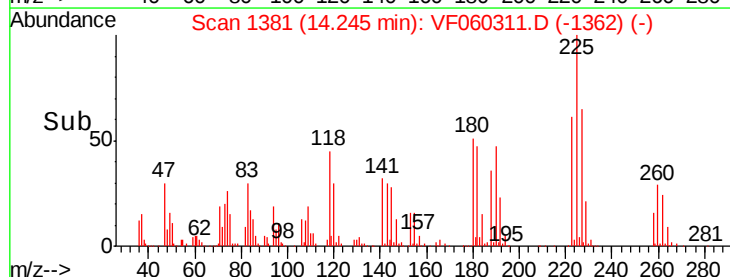
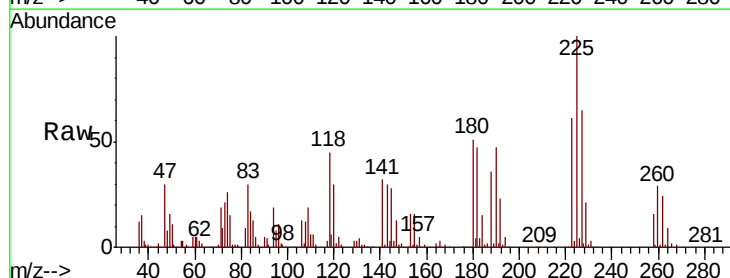
Manual Integrations
 APPROVED

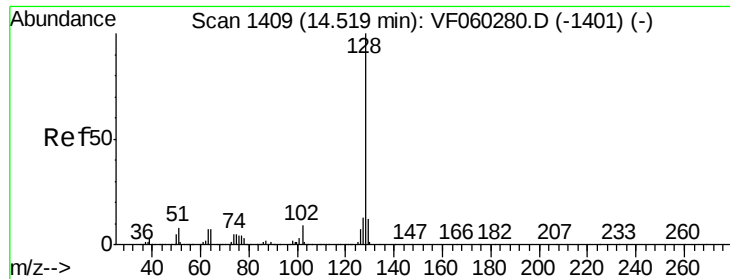
apatel
 9/24/2018 12:51:14 PM



#94
 Hexachlorobutadiene
 Concen: 46.832 ug/l
 RT: 14.24 min Scan# 1381
 Delta R.T. -0.01 min
 Lab File: VF060311.D
 Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	164237		
223	60.6	31.2	93.6	
227	65.4	32.2	96.6	





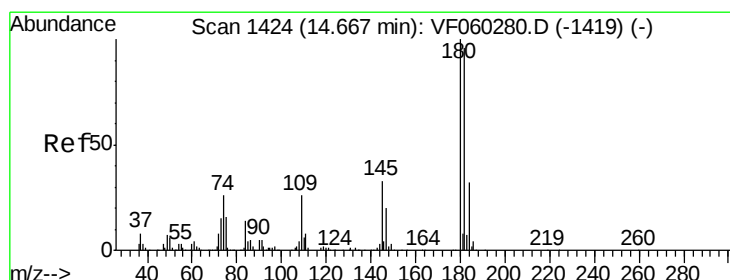
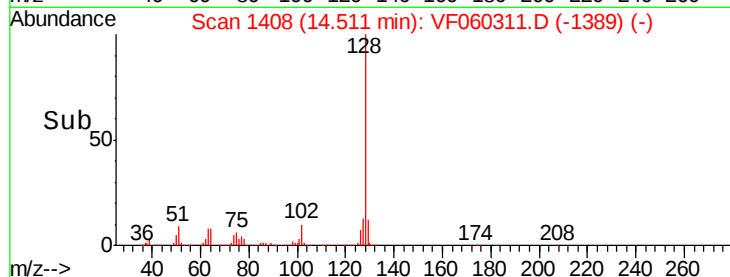
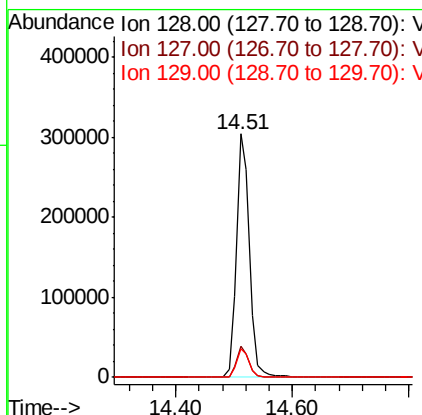
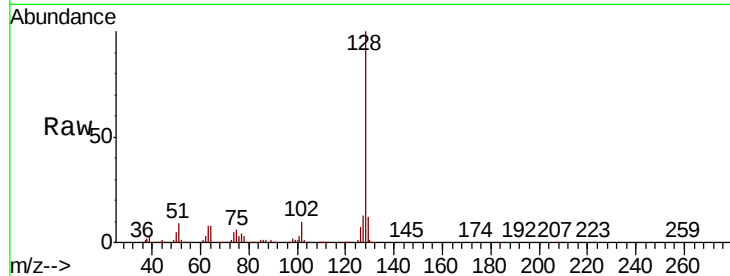
#95
Naphthalene
Concen: 51.555 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.9	9.8	14.8

Manual Integrations
APPROVED

apatel
9/24/2018 12:51:14 PM



#96
1,2,3-Trichlorobenzene
Concen: 49.732 ug/l
RT: 14.66 min Scan# 1423
Delta R.T. -0.01 min
Lab File: VF060311.D
Acq: 21 Sep 2018 12:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.8	143.4
145	31.8	16.4	49.1

