

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059546.D
 Acq On : 19 Jul 2018 8:13
 Operator : VA/AP
 Sample : VF0719SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Manual Integrations
 APPROVED

apatel
 7/19/2018 3:17:19 PM

Quant Time: Jul 19 08:49:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	215371	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	341875	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	337449	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	223154	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	190222	56.79	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.58%	
35) Dibromofluoromethane	4.28	113	156407	52.82	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.64%	
50) Toluene-d8	7.70	98	349086	46.80	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.60%	
62) 4-Bromofluorobenzene	11.51	95	204779	52.34	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	104.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	57870	21.93	ug/l	95
3) Chloromethane	1.09	50	29779	20.51	ug/l	97
4) Vinyl Chloride	1.15	62	33973	23.19	ug/l	92
5) Bromomethane	1.33	94	27141	26.73	ug/l	94
6) Chloroethane	1.42	64	20020	27.10	ug/l #	83
7) Trichlorofluoromethane	1.48	101	73615m	20.53	ug/l	
8) Diethyl Ether	1.70	74	15882	23.02	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.90	101	44645	29.49	ug/l	93
10) Methyl Iodide	1.96	142	80597	30.41	ug/l	93
11) Tert butyl alcohol	2.67	59	17615	117.38	ug/l #	83
12) 1,1-Dichloroethene	1.86	96	37435	23.25	ug/l	93
13) Acrolein	2.08	56	7874	100.76	ug/l	90
14) Allyl chloride	2.18	41	61317	30.51	ug/l #	80
15) Acrylonitrile	3.07	53	34065	121.22	ug/l	91
16) Acetone	2.33	43	68468	122.84	ug/l	98
17) Carbon Disulfide	1.84	76	99120m	24.02	ug/l	
18) Methyl Acetate	2.45	43	36938m	35.21	ug/l	
19) Methyl tert-butyl Ether	2.53	73	117703	23.30	ug/l	97
20) Methylene Chloride	2.27	84	43463m	26.62	ug/l	
21) trans-1,2-Dichloroethene	2.41	96	38315	25.74	ug/l	95
22) Diisopropyl ether	2.92	45	124494	22.04	ug/l	95
23) Vinyl Acetate	3.32	43	313531	95.00	ug/l #	95
24) 1,1-Dichloroethane	2.99	63	90258	25.88	ug/l	98
25) 2-Butanone	4.51	43	82571	106.18	ug/l	96
26) 2,2-Dichloropropane	3.75	77	53462	23.17	ug/l	96
27) cis-1,2-Dichloroethene	3.62	96	47123	27.20	ug/l	93
28) Bromochloromethane	3.88	49	34888	22.73	ug/l	99
29) Tetrahydrofuran	4.24	42	37956	107.76	ug/l	99
30) Chloroform	4.02	83	123442	24.50	ug/l	96
31) Cyclohexane	3.85	56	49696	27.51	ug/l	89
32) 1,1,1-Trichloroethane	4.26	97	101043	30.86	ug/l	90
36) 1,1-Dichloropropene	4.45	75	69829	20.41	ug/l	91
37) Ethyl Acetate	4.28	43	38258	16.97	ug/l #	9
38) Carbon Tetrachloride	4.16	117	103021m	26.27	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059546.D
 Acq On : 19 Jul 2018 8:13
 Operator : VA/AP
 Sample : VF0719SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0719SBS01

Manual Integrations
 APPROVED

apatel
 7/19/2018 3:17:19 PM

Quant Time: Jul 19 08:49:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	63746	24.55	ug/l	95
40) Benzene	4.80	78	140883	21.22	ug/l	97
41) Methacrylonitrile	4.90	41	19412	19.78	ug/l #	91
42) 1,2-Dichloroethane	5.11	62	101806	23.35	ug/l	96
43) Isopropyl Acetate	7.10	43	45396	18.46	ug/l #	95
44) Trichloroethene	5.66	130	54095	22.01	ug/l	94
45) 1,2-Dichloropropane	6.39	63	38755	21.03	ug/l #	88
46) Dibromomethane	6.24	93	36685	21.86	ug/l	94
47) Bromodichloromethane	6.54	83	97373	22.54	ug/l	98
48) Methyl methacrylate	6.87	41	33506	19.08	ug/l	91
49) 1,4-Dioxane	6.87	88	4750	560.92	ug/l #	61
51) 4-Methyl-2-Pentanone	8.40	43	178847	102.61	ug/l	98
52) Toluene	7.77	92	102442	21.28	ug/l	90
53) t-1,3-Dichloropropene	8.42	75	84335	21.23	ug/l	98
54) cis-1,3-Dichloropropene	7.45	75	80215	20.28	ug/l	98
55) 1,1,2-Trichloroethane	8.63	97	43765	23.46	ug/l	98
56) Ethyl methacrylate	8.76	69	43815	18.94	ug/l	99
57) 1,3-Dichloropropane	8.99	76	72235	21.90	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.77	63	23388	114.51	ug/l	100
59) 2-Hexanone	9.62	43	132415	100.52	ug/l	95
60) Dibromochloromethane	8.85	129	68962	21.94	ug/l	98
61) 1,2-Dibromoethane	9.13	107	52297	22.59	ug/l	97
64) Tetrachloroethene	8.29	164	61087	24.31	ug/l	98
65) Chlorobenzene	9.93	112	143620	22.69	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.06	131	63406	22.00	ug/l	91
67) Ethyl Benzene	10.03	91	249791	22.17	ug/l	98
68) m/p-Xylenes	10.26	106	180935	45.51	ug/l	99
69) o-Xylene	10.83	106	94434	22.31	ug/l	95
70) Styrene	10.90	104	153128	23.53	ug/l	96
71) Bromoform	10.89	173	42888	21.42	ug/l	98
73) Isopropylbenzene	11.22	105	298502	21.20	ug/l	99
74) N-amyl acetate	11.46	43	78408	17.39	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.78	83	64692	21.06	ug/l	96
76) 1,2,3-Trichloropropane	11.88	75	53368	21.28	ug/l	96
77) Bromobenzene	11.59	156	80020	20.27	ug/l	74
78) n-propylbenzene	11.68	91	353479	21.88	ug/l	99
79) 2-Chlorotoluene	11.80	91	221130	22.23	ug/l	96
80) 1,3,5-Trimethylbenzene	11.91	105	265073	22.47	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.95	75	20339m	17.75	ug/l	
82) 4-Chlorotoluene	11.98	91	229053	20.55	ug/l	99
83) tert-Butylbenzene	12.21	119	254398	22.46	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	273890	22.56	ug/l	98
85) sec-Butylbenzene	12.38	105	335782	23.31	ug/l	95
86) p-Isopropyltoluene	12.53	119	274955	21.94	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	145864	21.54	ug/l	97
88) 1,4-Dichlorobenzene	12.64	146	143527	21.51	ug/l	94
89) n-Butylbenzene	12.92	91	272420	23.23	ug/l	98
90) Hexachloroethane	12.99	117	67349	23.66	ug/l	90
91) 1,2-Dichlorobenzene	13.01	146	143303	22.13	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	14825	21.31	ug/l	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
Data File : VF059546.D
Acq On : 19 Jul 2018 8:13
Operator : VA/AP
Sample : VF0719SBSD01
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBSD01

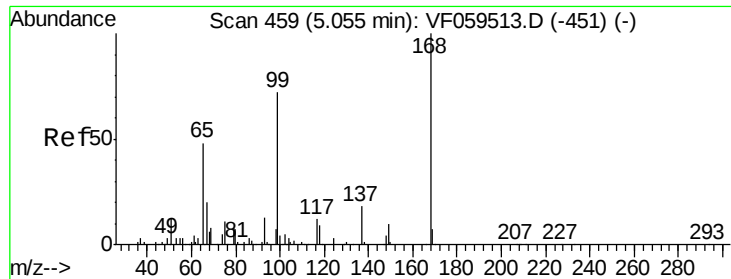
Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM

Quant Time: Jul 19 08:49:40 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 04:09:10 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	102369	26.01	µg/l	94
94) Hexachlorobutadiene	14.26	225	59855	29.69	µg/l	96
95) Naphthalene	14.52	128	191678	23.45	µg/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	97477	27.42	µg/l	96

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



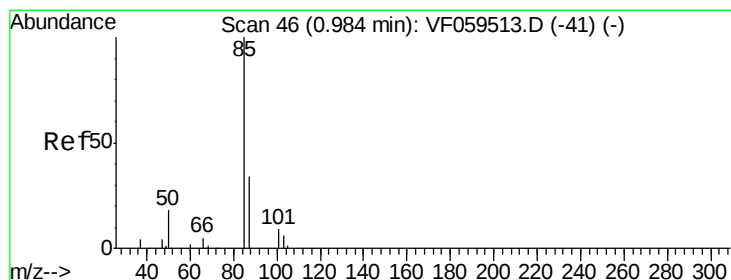
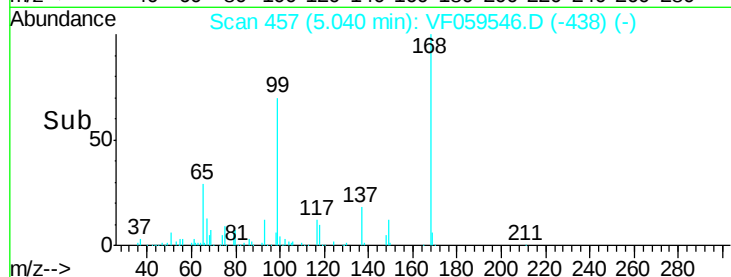
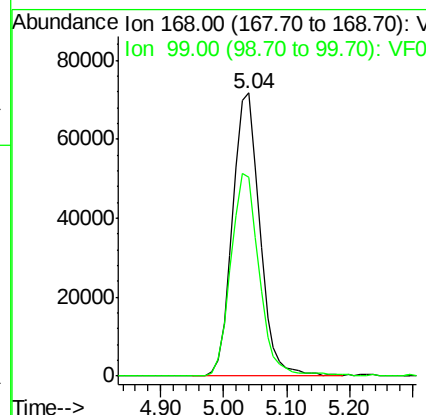
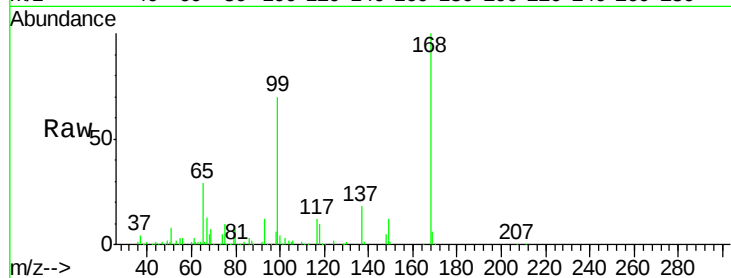
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.04 min Scan# 457
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Lower	Upper
168	100		
99	70.3	57.6	86.4

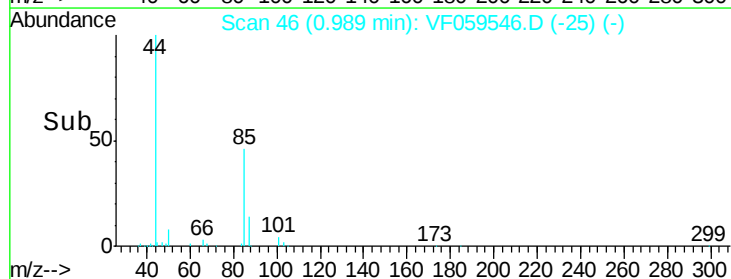
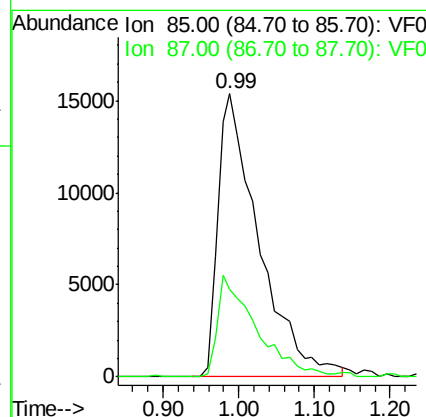
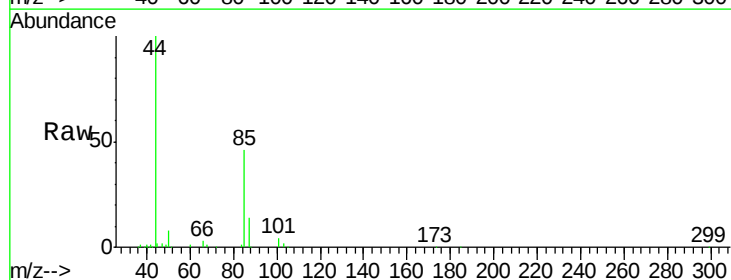
Manual Integrations
APPROVED

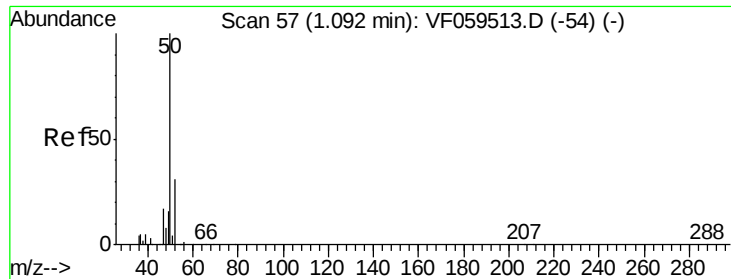
apatel
7/19/2018 3:17:19 PM



#2
Dichlorodifluoromethane
Concen: 21.93 ug/l
RT: 0.99 min Scan# 46
Delta R.T. 0.00 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.1	16.9	50.6





#3

Chloromethane

Concen: 20.51 ug/l

RT: 1.09 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 50 Resp: 29779

Ion Ratio Lower Upper

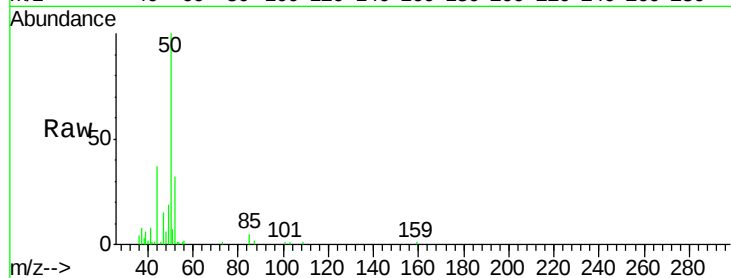
50 100

52 32.4 24.6 37.0

Manual Integrations
APPROVED

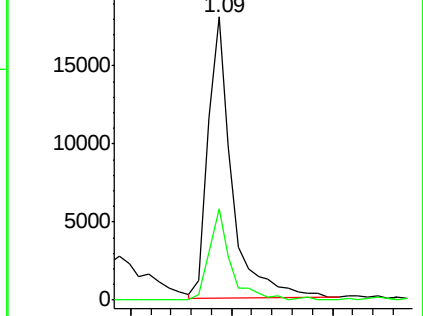
apatel

7/19/2018 3:17:19 PM

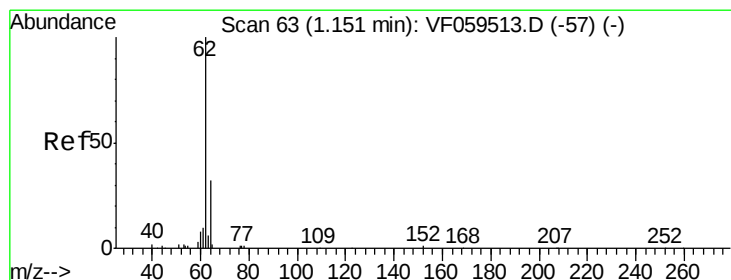
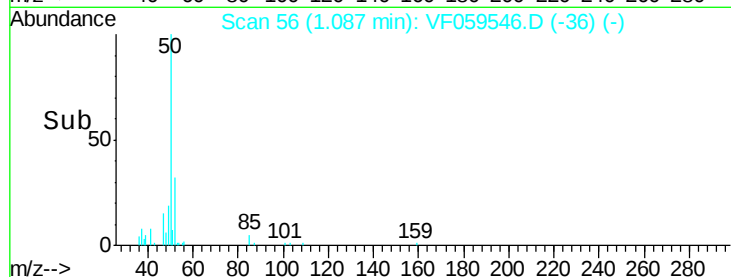


Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time-->



#4

Vinyl Chloride

Concen: 23.19 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF059546.D

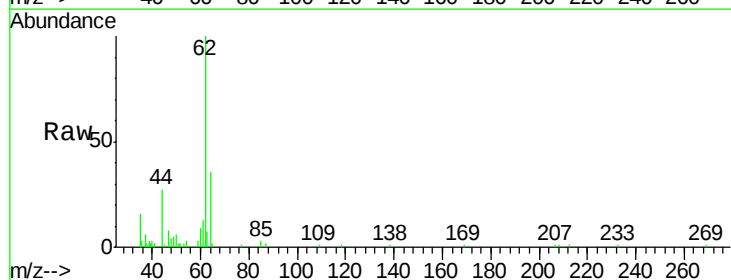
Acq: 19 Jul 2018 8:13

Tgt Ion: 62 Resp: 33973

Ion Ratio Lower Upper

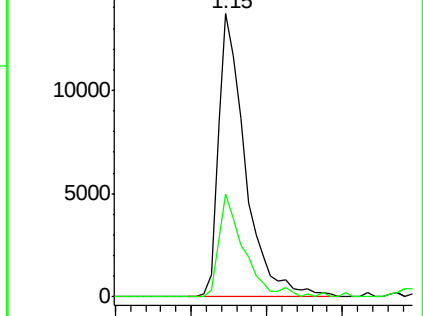
62 100

64 36.3 25.7 38.5

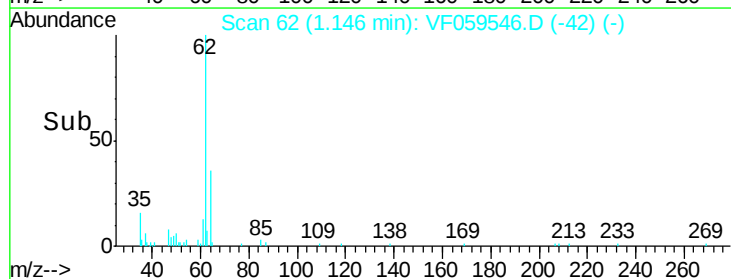


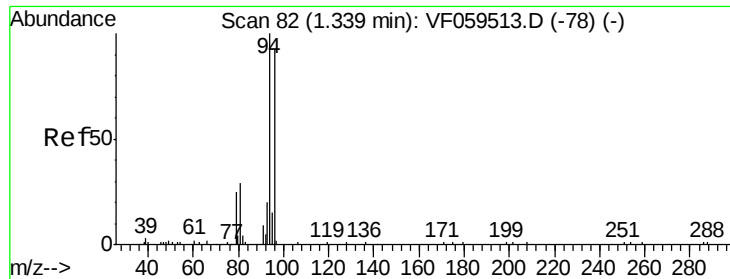
Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



Time-->





#5

Bromomethane

Concen: 26.73 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 94 Resp: 27141

Ion Ratio Lower Upper

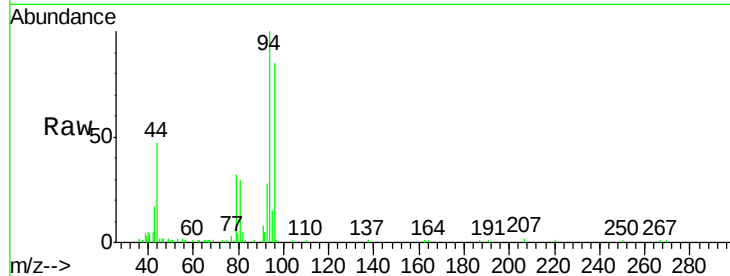
94 100

96 86.7 74.2 111.2

Manual Integrations
APPROVED

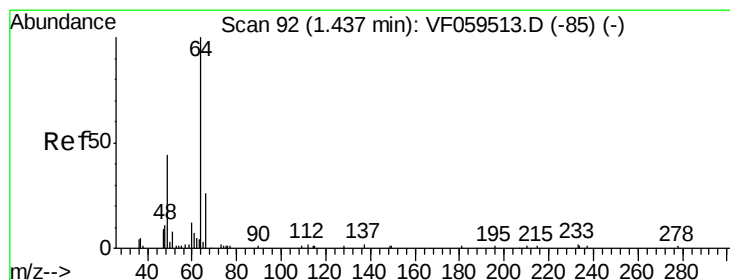
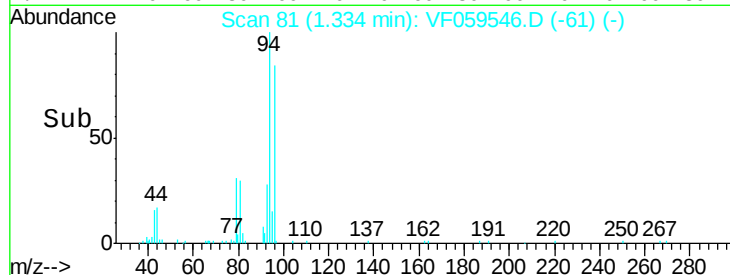
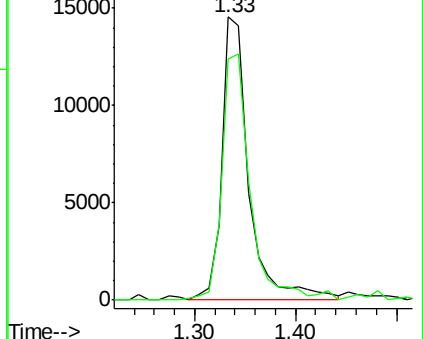
apatel

7/19/2018 3:17:19 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 27.10 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059546.D

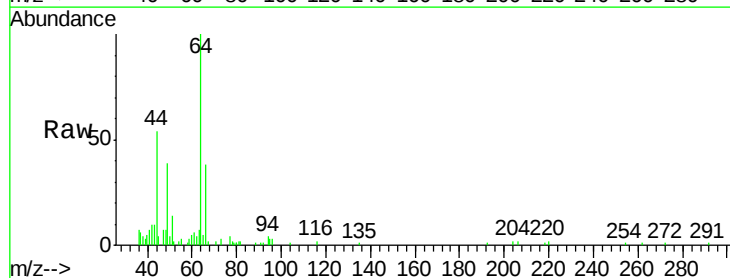
Acq: 19 Jul 2018 8:13

Tgt Ion: 64 Resp: 20020

Ion Ratio Lower Upper

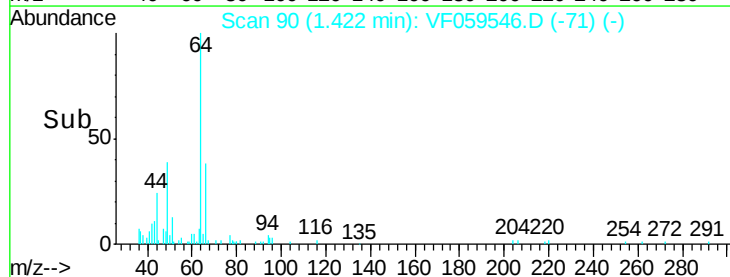
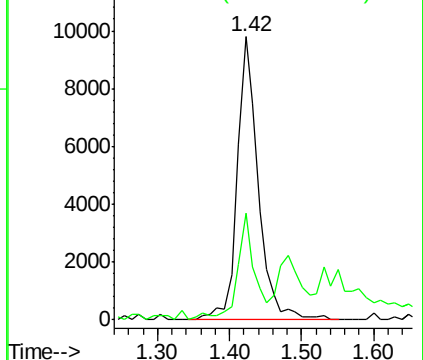
64 100

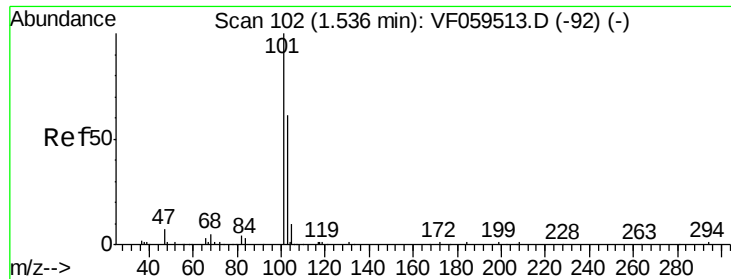
66 37.6 22.9 34.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

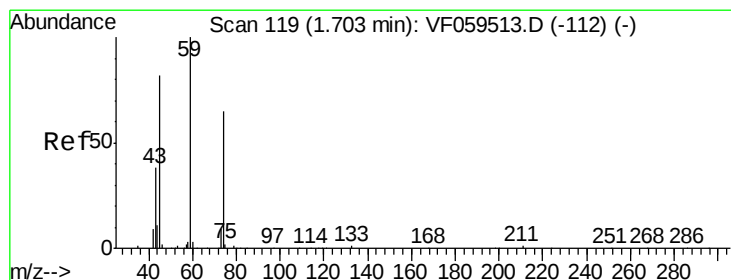
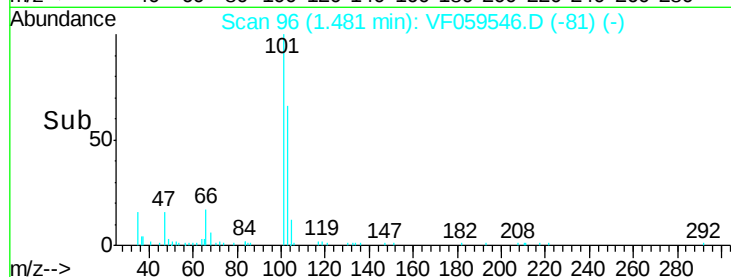
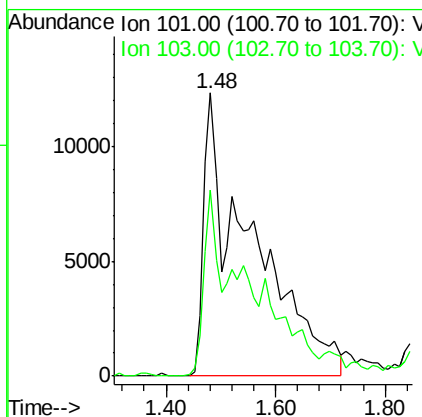
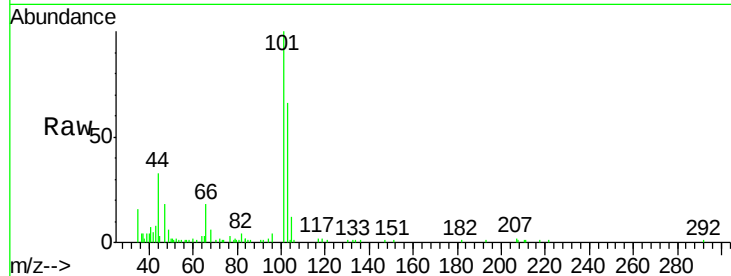
Trichlorofluoromethane
 Concen: 20.53 ug/l m
 RT: 1.48 min Scan# 96
 Delta R.T. -0.05 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	48.6	72.8

Manual Integrations
 APPROVED

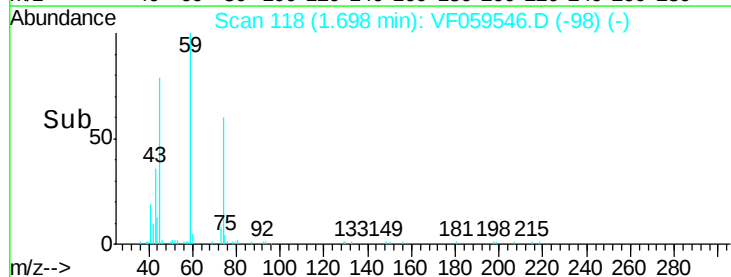
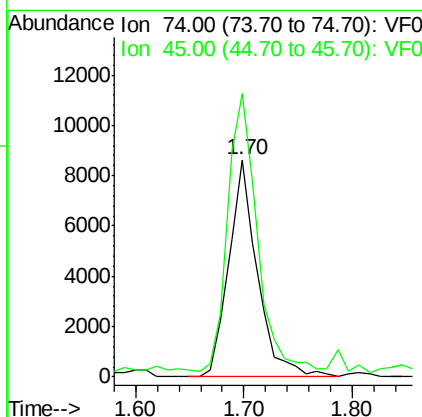
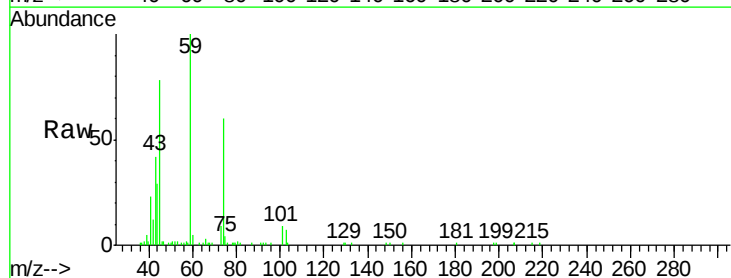
apatel
 7/19/2018 3:17:19 PM

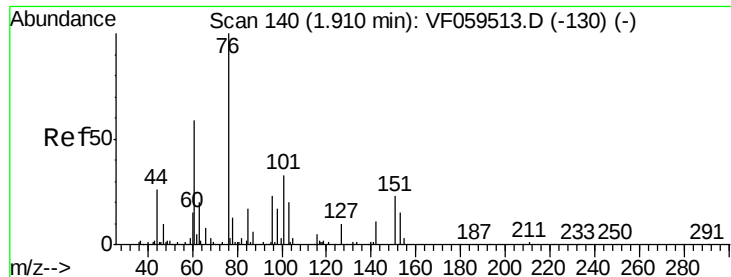


#8

Diethyl Ether
 Concen: 23.02 ug/l
 RT: 1.70 min Scan# 118
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	130.6	63.6	190.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 29.49 ug/l

RT: 1.90 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

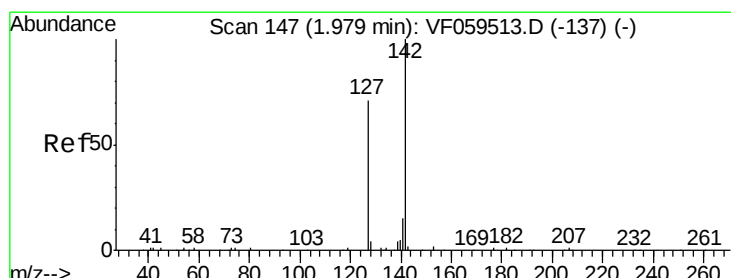
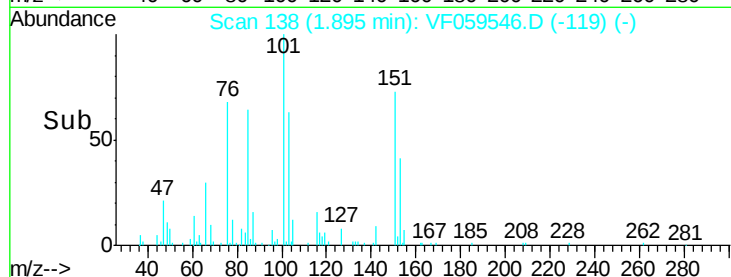
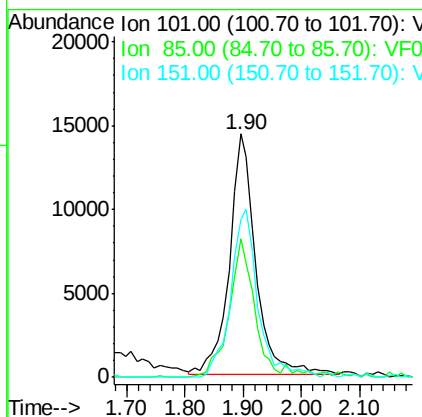
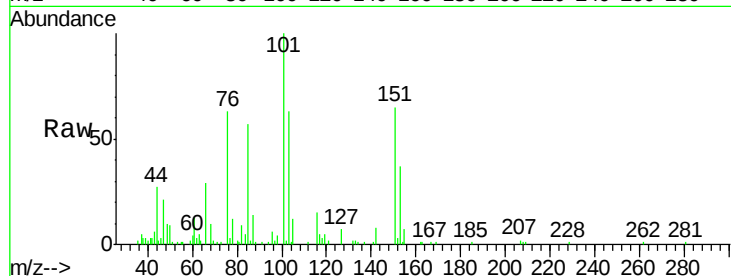
ClientSampleId :

VF0719SBS01

Tot Ion:	101	Resp:	44645
Ion Ratio	Lower	Upper	
101	100		
85	57.0	39.8	59.6
151	64.8	54.2	81.2

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#10

Methyl Iodide

Concen: 30.41 ug/l

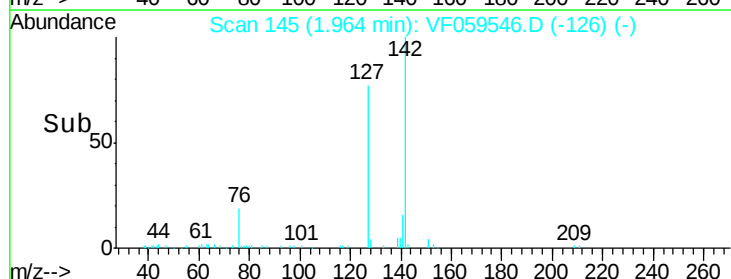
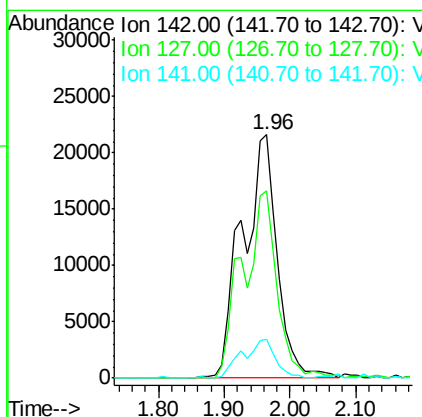
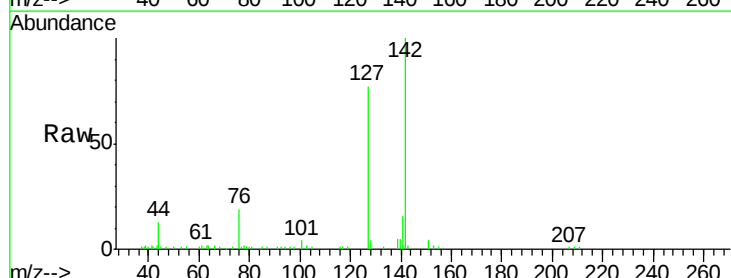
RT: 1.96 min Scan# 145

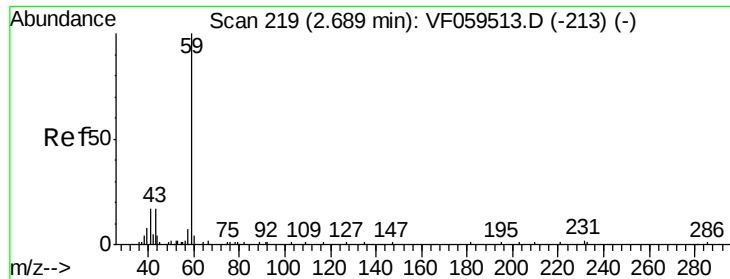
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	142	Resp:	80597
Ion Ratio	Lower	Upper	
142	100		
127	76.7	56.4	84.6
141	16.1	12.0	18.0





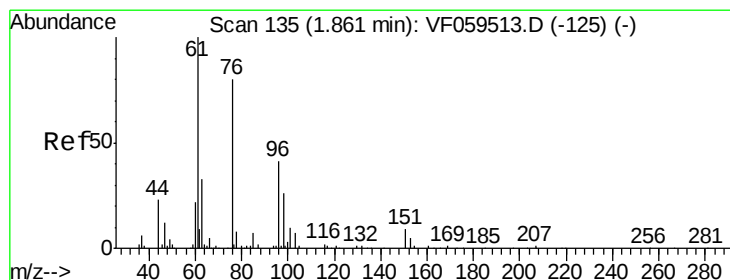
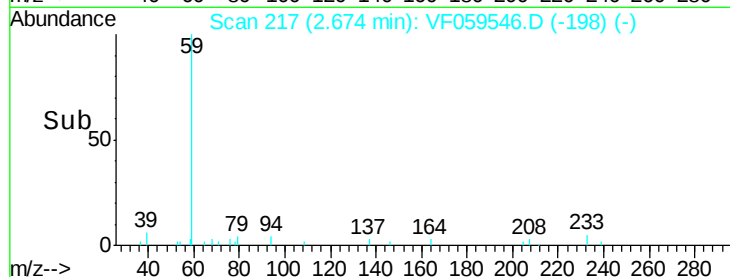
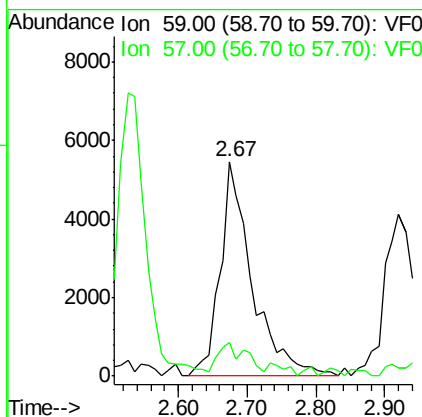
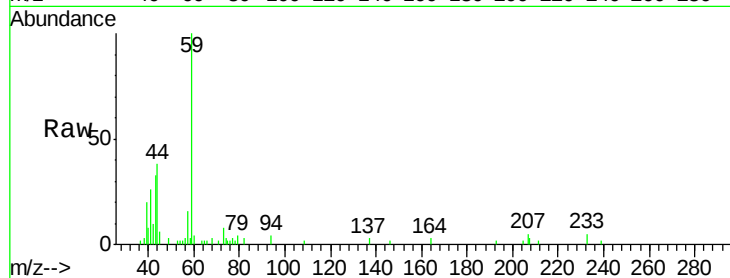
#11
Tert butyl alcohol
Concen: 117.38 ug/l
RT: 2.67 min Scan# 217
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	15.7	7.7	11.5#

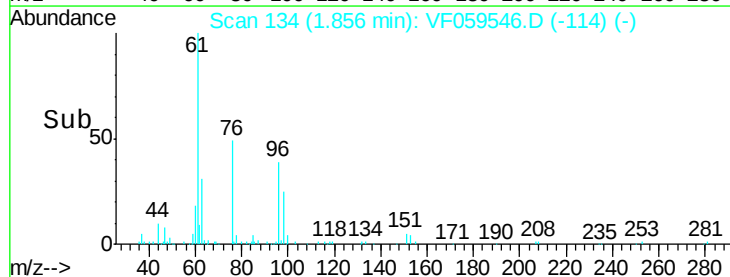
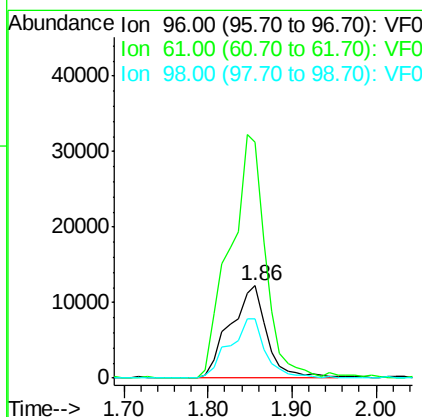
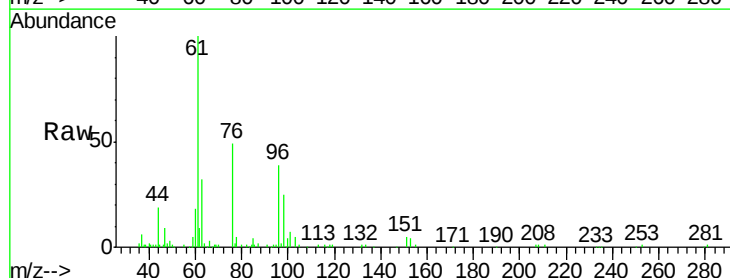
Manual Integrations
APPROVED

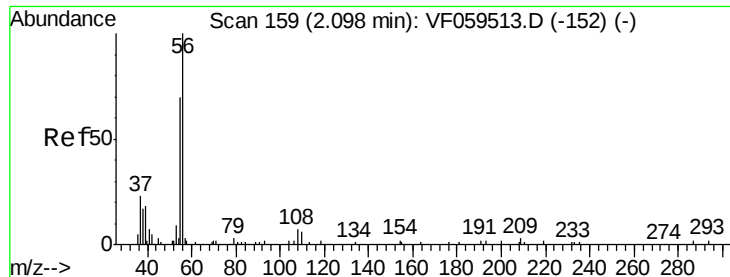
apatel
7/19/2018 3:17:19 PM



#12
1,1-Dichloroethene
Concen: 23.25 ug/l
RT: 1.86 min Scan# 134
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	256.6	194.3	291.5
98	64.3	50.3	75.5





#13

Acrolein

Concen: 100.76 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 56 Resp: 7874

Ion Ratio Lower Upper

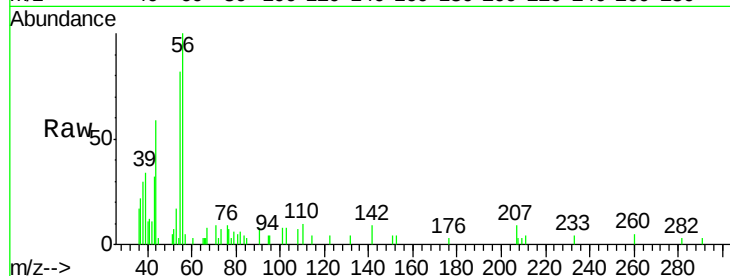
56 100

55 82.5 59.4 89.2

Manual Integrations
APPROVED

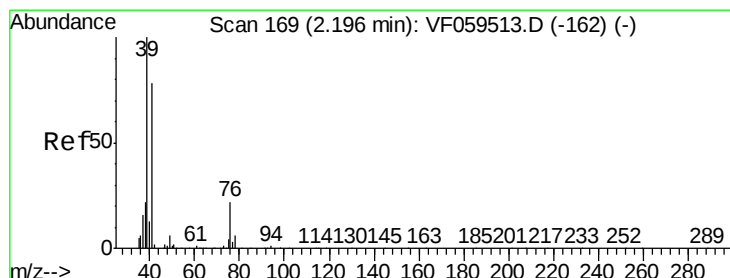
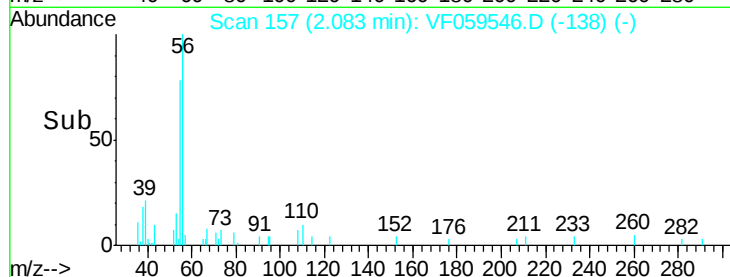
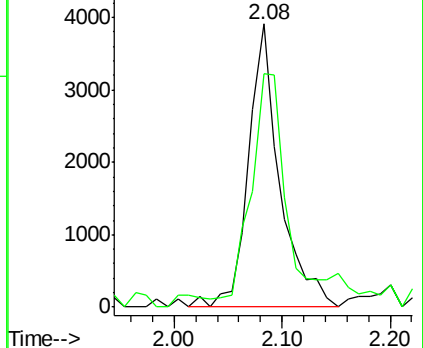
apatel

7/19/2018 3:17:19 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 30.51 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

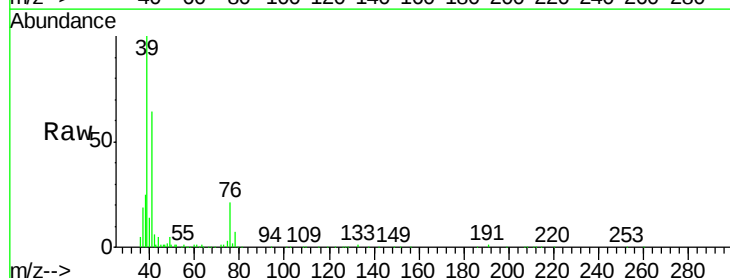
Tgt Ion: 41 Resp: 61317

Ion Ratio Lower Upper

41 100

39 155.2 103.0 154.4#

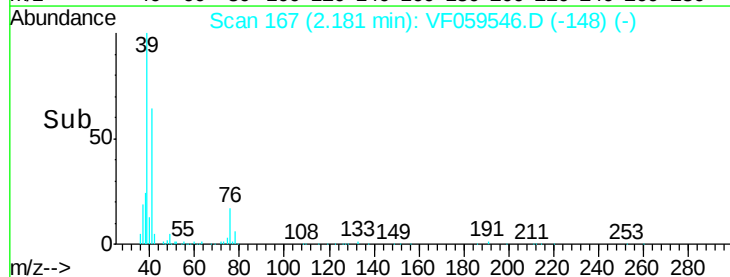
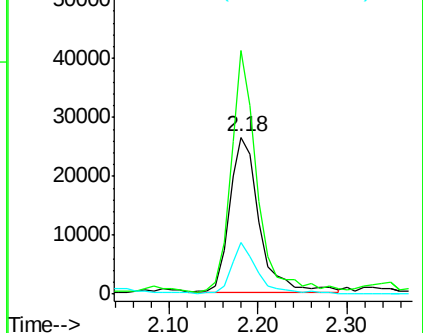
76 32.8 22.6 34.0

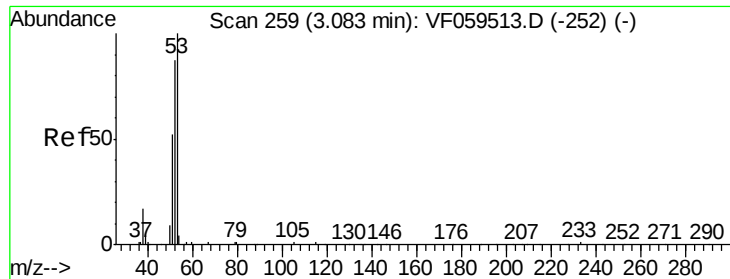


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 121.22 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

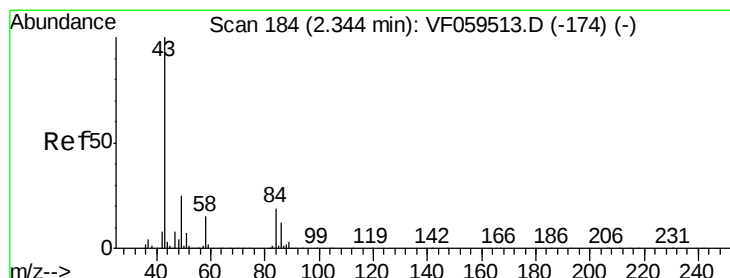
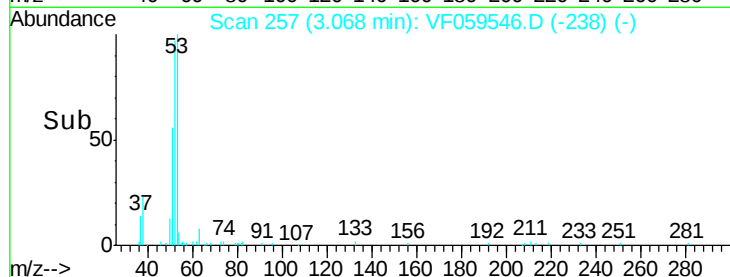
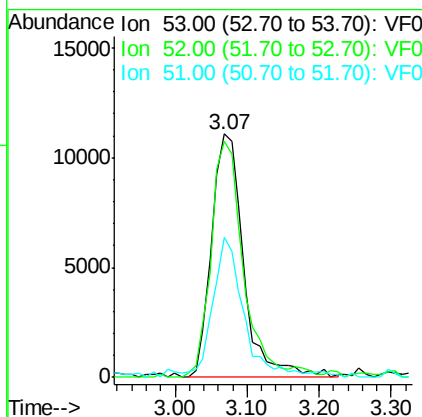
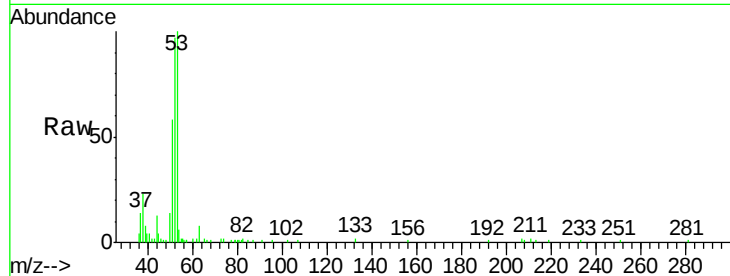
ClientSampleId :

VF0719SBS01

Tot Ion:	53	Resp:	34065
Ion Ratio	Lower	Upper	
53	100		
52	96.9	70.1	105.1
51	57.6	42.5	63.7

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#16

Acetone

Concen: 122.84 ug/l

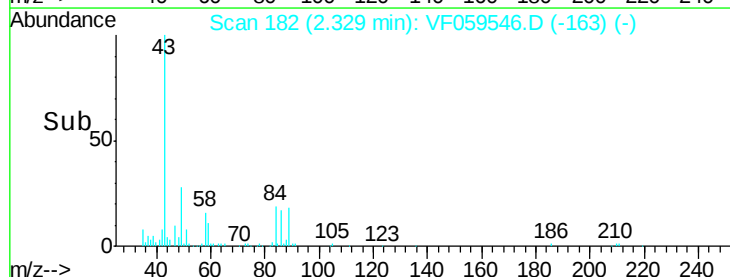
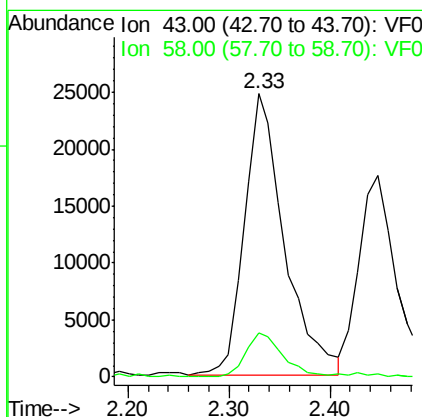
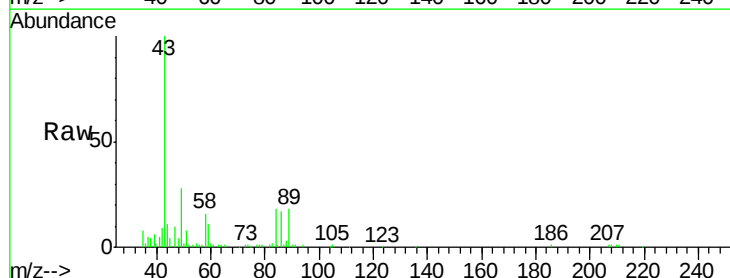
RT: 2.33 min Scan# 182

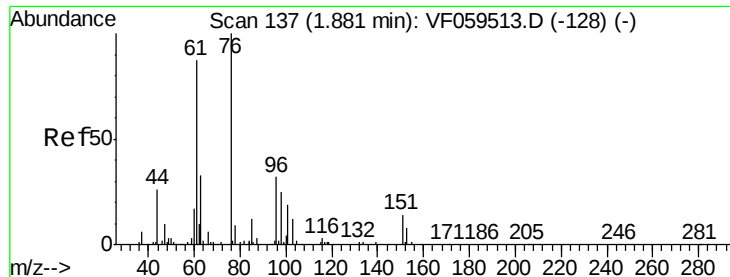
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	43	Resp:	68468
Ion Ratio	Lower	Upper	
43	100		
58	15.5	11.8	17.6





#17

Carbon Disulfide

Concen: 24.02 ug/l m

RT: 1.84 min Scan# 132

Delta R.T. -0.04 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 76 Resp: 99120

Ion Ratio Lower Upper

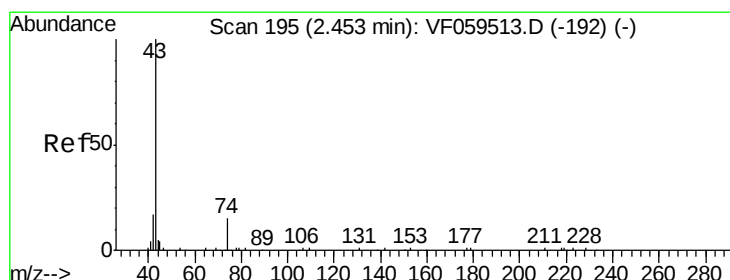
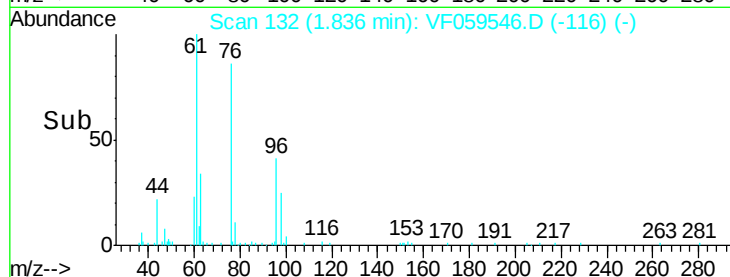
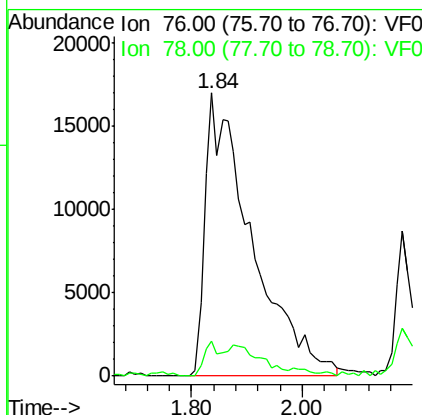
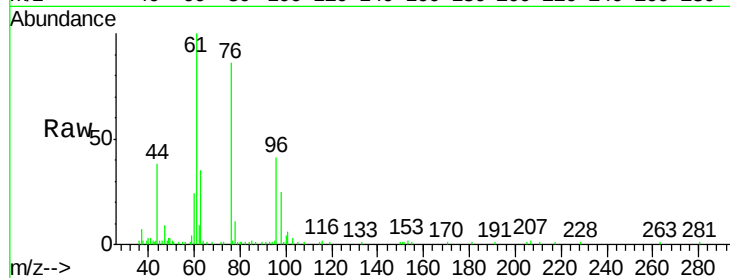
76 100

78 12.8 7.8 11.6#

Manual Integrations
APPROVED

apatel

7/19/2018 3:17:19 PM



#18

Methyl Acetate

Concen: 35.21 ug/l m

RT: 2.45 min Scan# 194

Delta R.T. -0.00 min

Lab File: VF059546.D

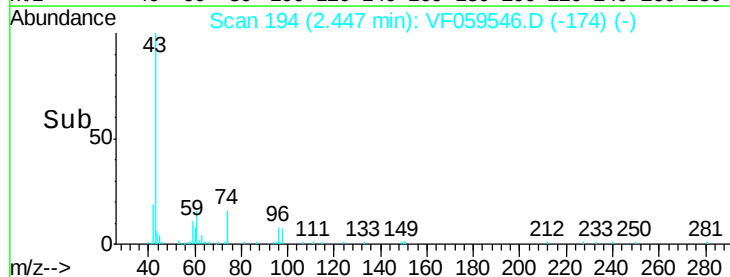
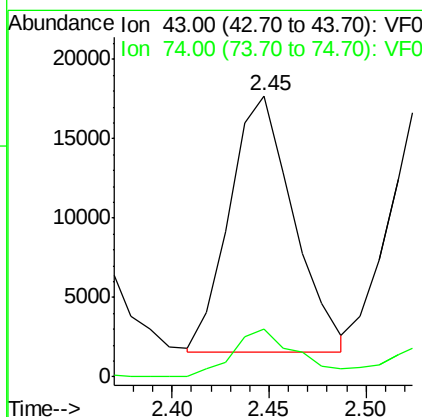
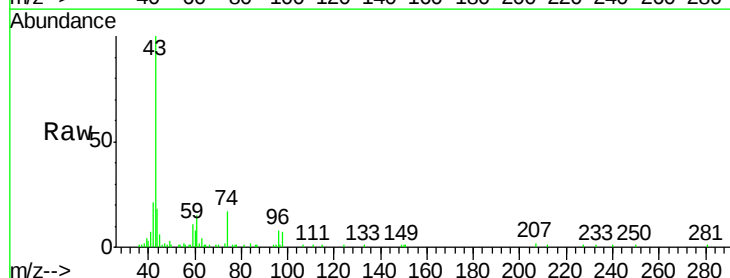
Acq: 19 Jul 2018 8:13

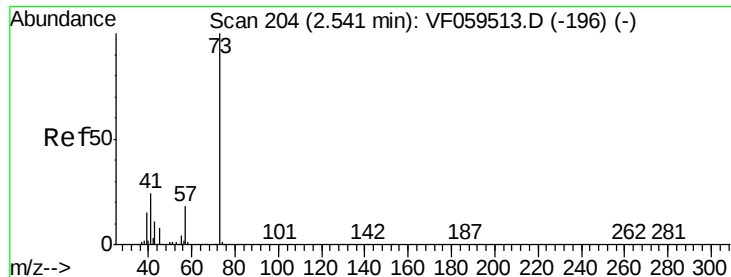
Tgt Ion: 43 Resp: 36938

Ion Ratio Lower Upper

43 100

74 17.0 10.6 15.8#





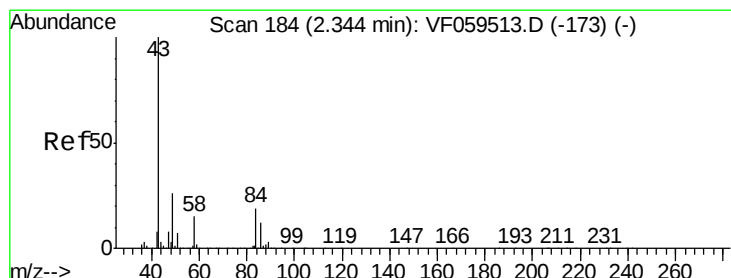
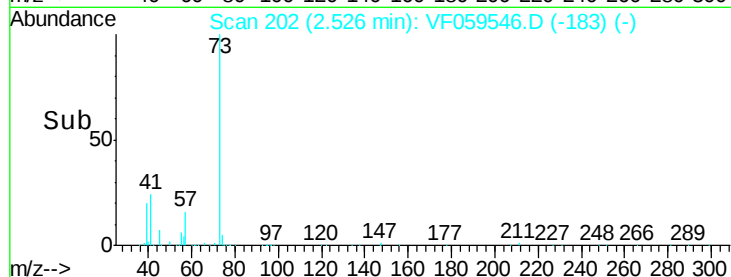
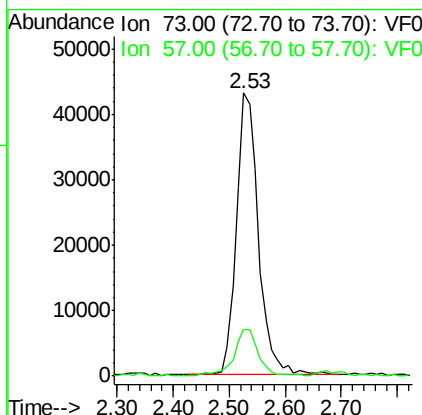
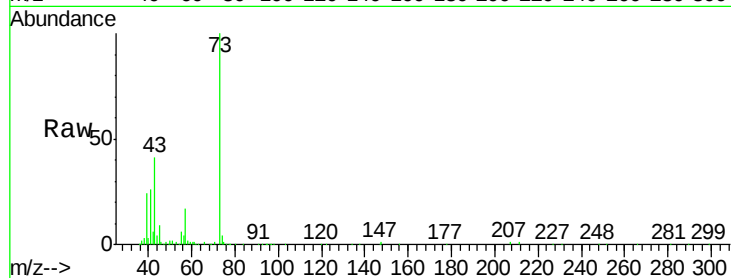
#19
Methyl tert-butyl Ether
Concen: 23.30 ug/l
RT: 2.53 min Scan# 202
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.7	14.3	21.5

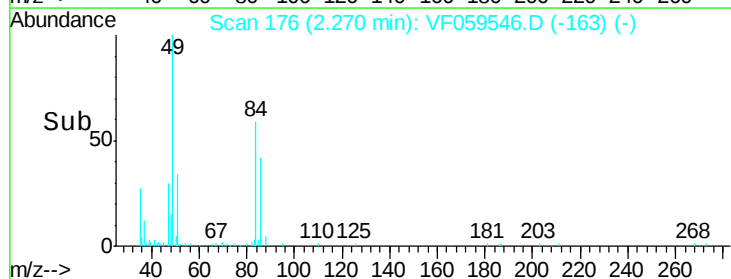
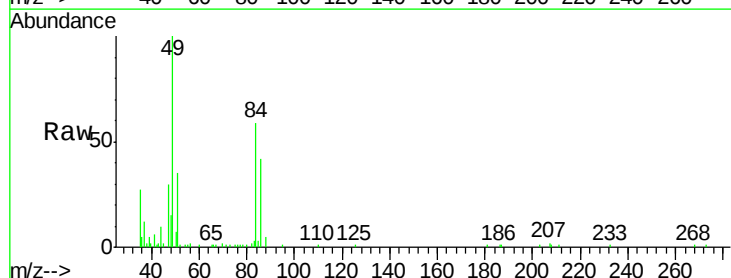
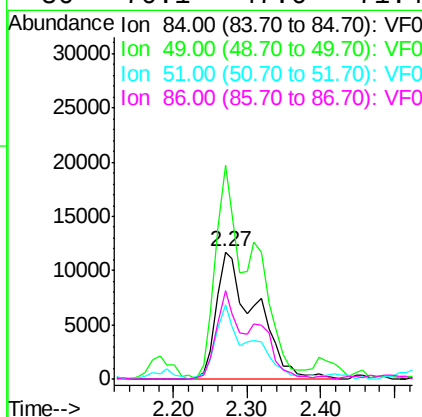
Manual Integrations
APPROVED

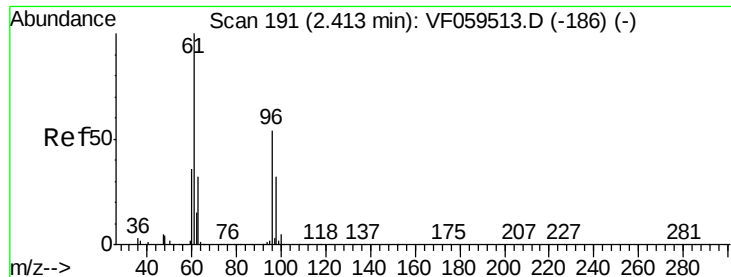
apatel
7/19/2018 3:17:19 PM



#20
Methylene Chloride
Concen: 26.62 ug/l m
RT: 2.27 min Scan# 176
Delta R.T. -0.07 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
84	100		
49	168.4	109.4	164.2#
51	58.2	30.5	45.7#
86	70.1	47.6	71.4





#21

trans-1,2-Dichloroethene

Concen: 25.74 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

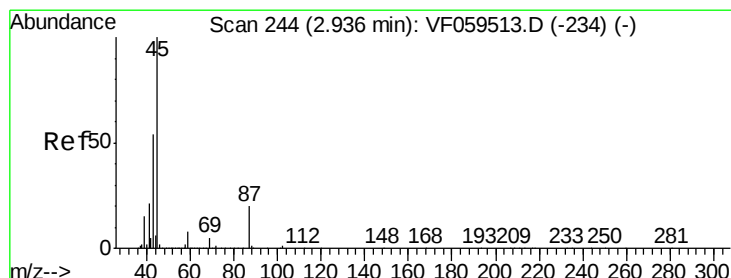
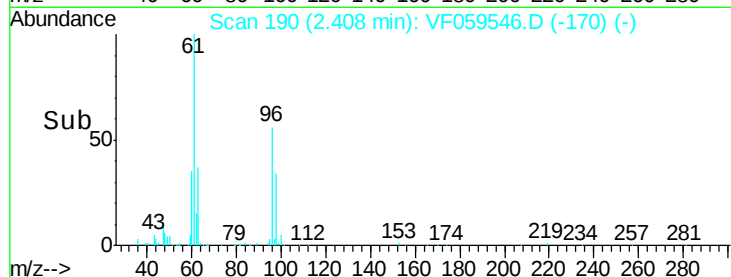
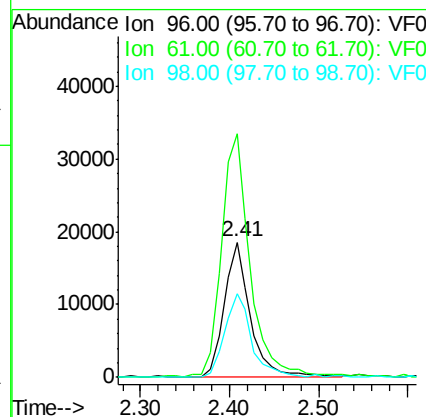
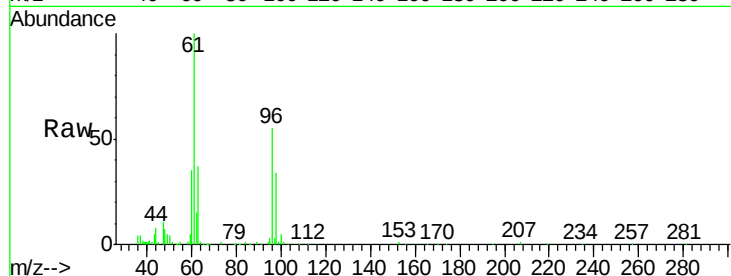
ClientSampleId :

VF0719SBS01

Tot Ion:	96	Resp:	38315
Ion Ratio	Lower	Upper	
96	100		
61	180.4	149.8	224.8
98	64.0	47.8	71.8

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#22

Diisopropyl ether

Concen: 22.04 ug/l

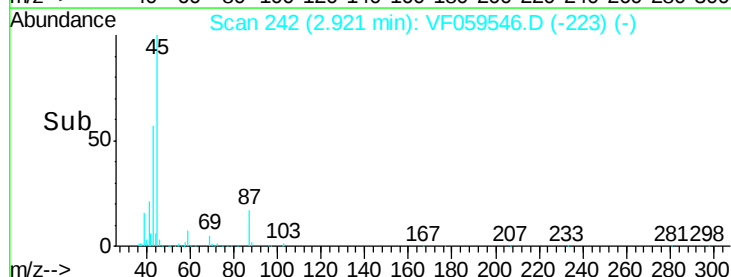
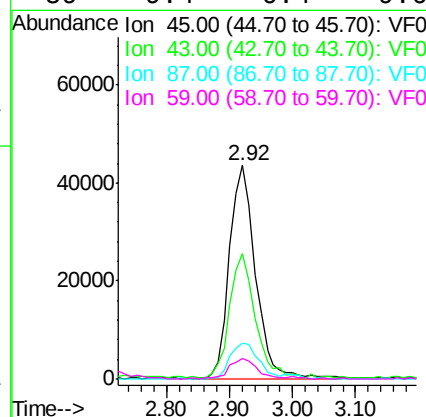
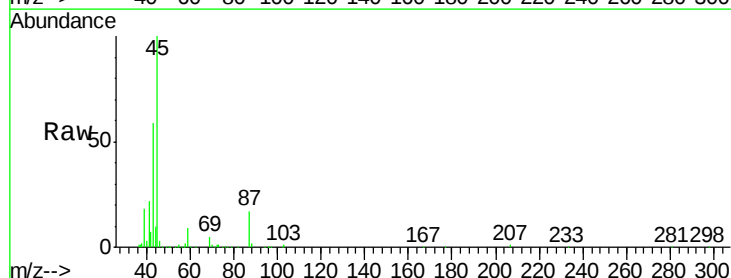
RT: 2.92 min Scan# 242

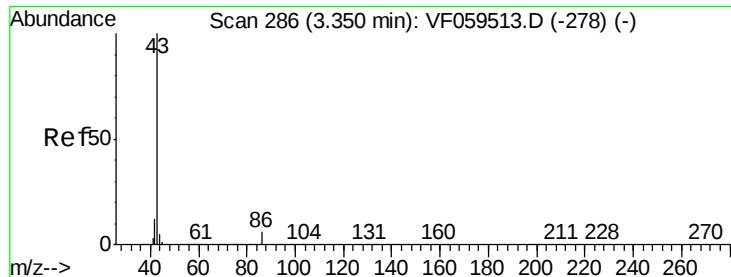
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	45	Resp:	124494
Ion Ratio	Lower	Upper	
45	100		
43	58.6	43.6	65.4
87	17.1	15.6	23.4
59	9.4	6.4	9.6





#23

Vinyl Acetate

Concen: 95.00 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

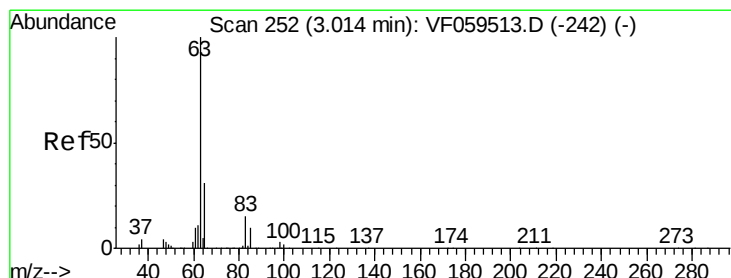
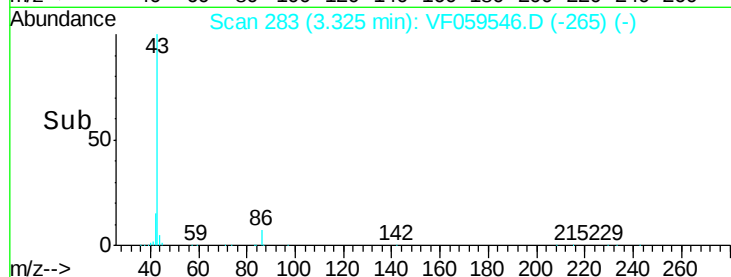
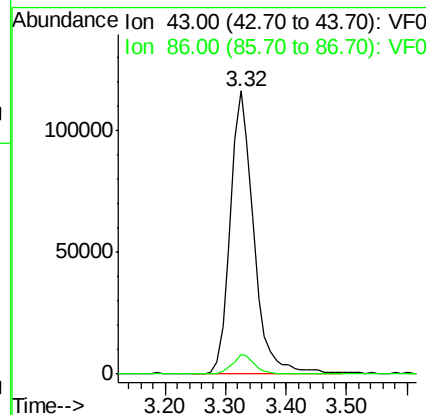
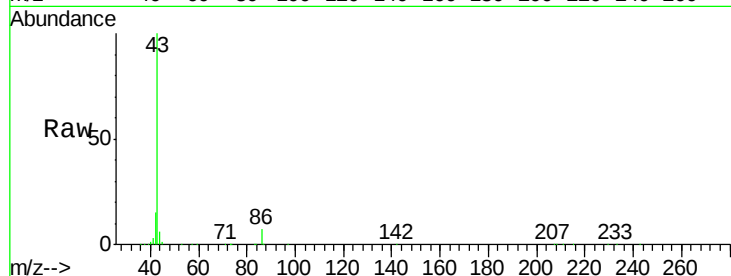
ClientSampleId :

VF0719SBS01

Tot Ion	43	Resp	313531
Ion	Ratio	Lower	Upper
43	100		
86	7.1	4.4	6.6#

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#24

1,1-Dichloroethane

Concen: 25.88 ug/l

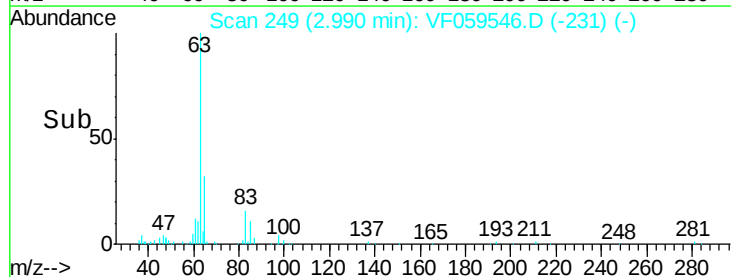
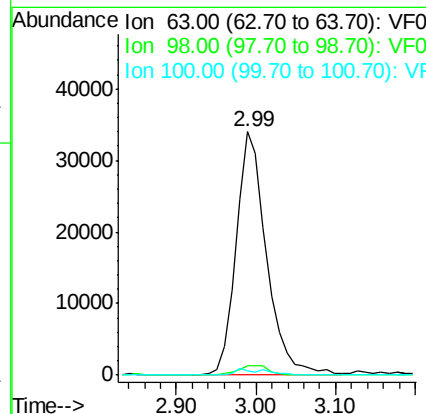
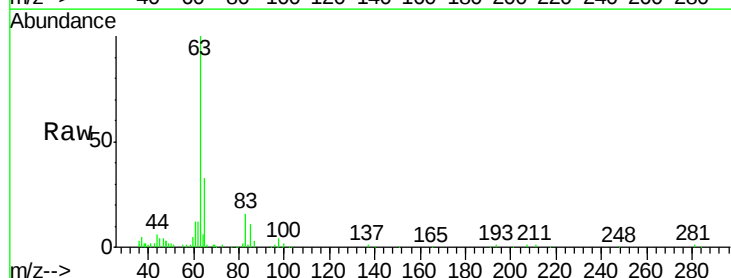
RT: 2.99 min Scan# 249

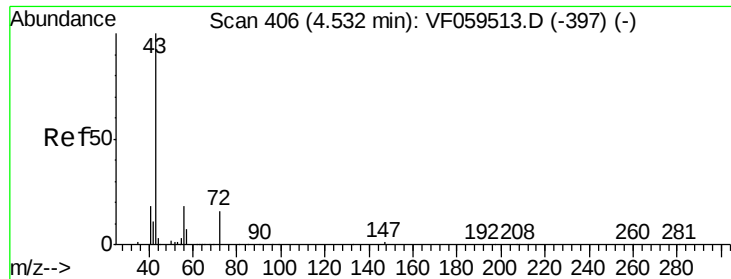
Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion	63	Resp	90258
Ion	Ratio	Lower	Upper
63	100		
98	4.0	1.8	5.4
100	1.8	1.3	3.8





#25

2-Butanone

Concen: 106.18 ug/l

RT: 4.51 min Scan# 403

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tot Ion: 43 Resp: 82571

Ion Ratio Lower Upper

43 100

72 15.9 14.2 21.4

Instrument :

MSVOA_F

ClientSampleId :

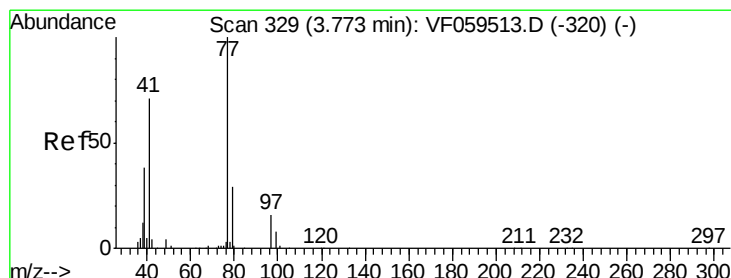
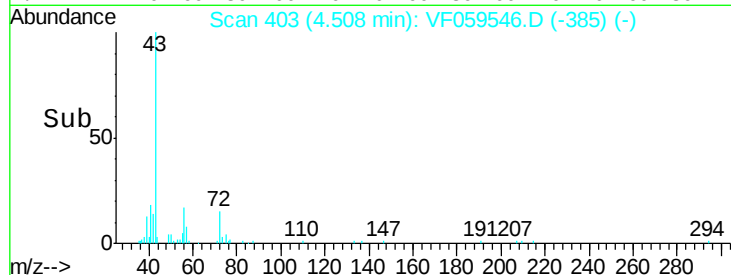
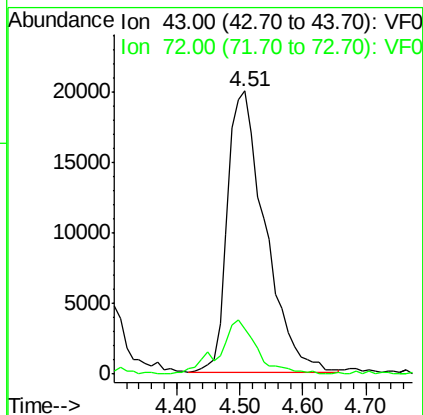
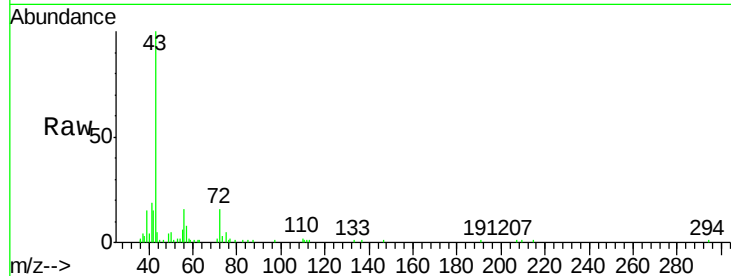
VF0719SBS01

Manual Integrations

APPROVED

apatel

7/19/2018 3:17:19 PM



#26

2,2-Dichloropropane

Concen: 23.17 ug/l

RT: 3.75 min Scan# 326

Delta R.T. -0.02 min

Lab File: VF059546.D

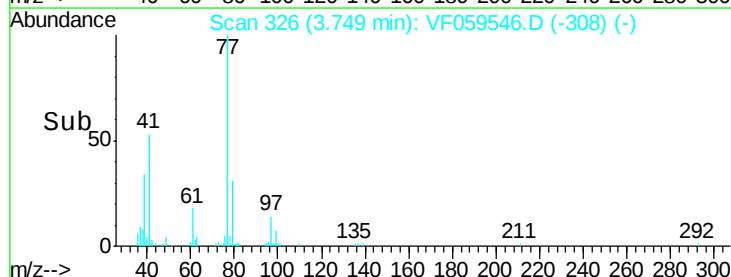
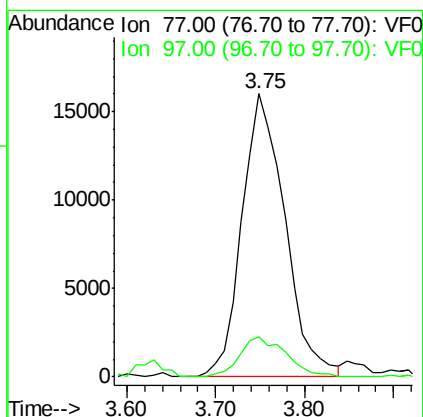
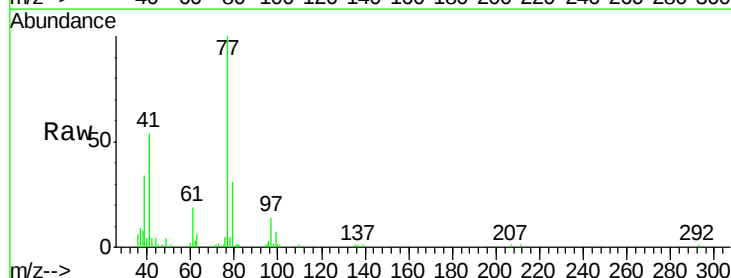
Acq: 19 Jul 2018 8:13

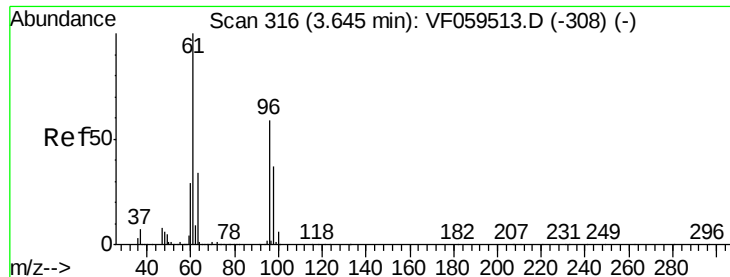
Tgt Ion: 77 Resp: 53462

Ion Ratio Lower Upper

77 100

97 14.4 8.1 24.3





#27

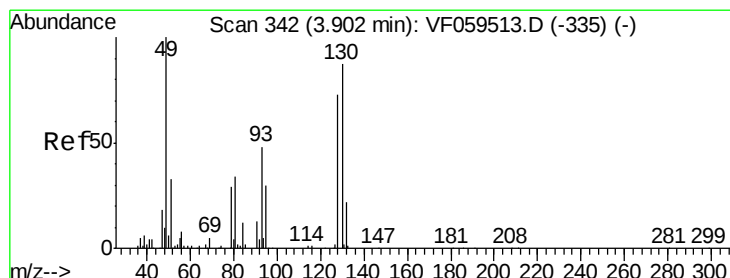
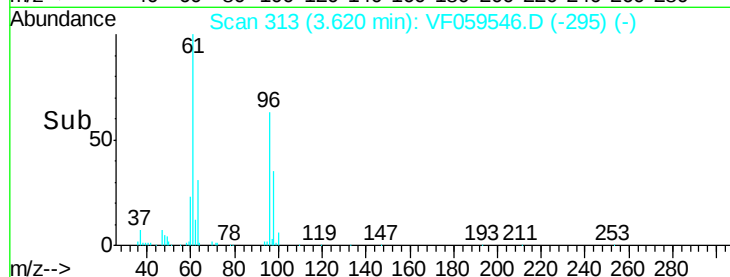
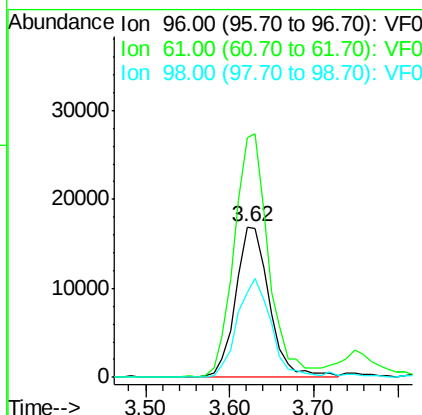
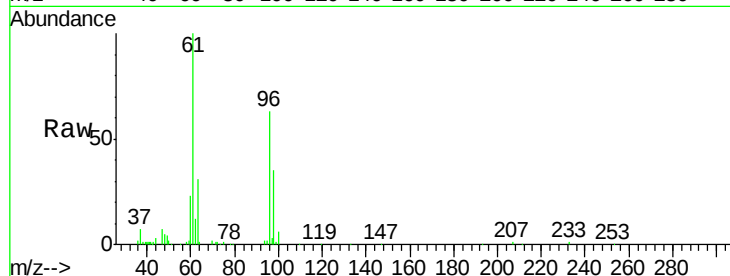
cis-1,2-Dichloroethene
Concen: 27.20 ug/l
RT: 3.62 min Scan# 313
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	159.8	0.0	339.0
98	56.2	0.0	125.4

Manual Integrations
APPROVED

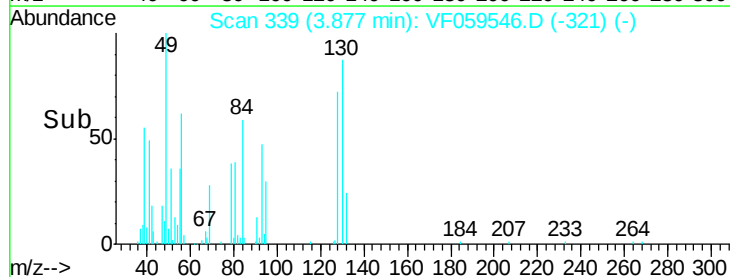
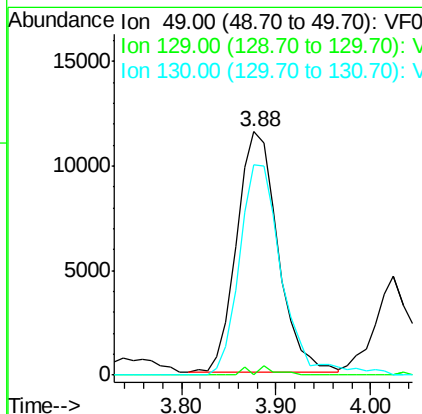
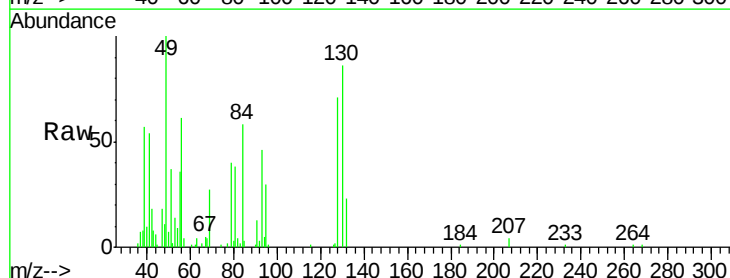
apatel
7/19/2018 3:17:19 PM

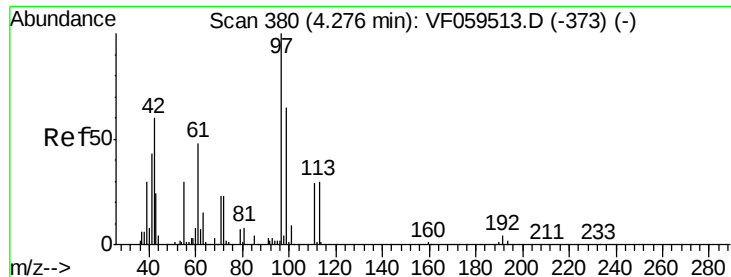


#28

Bromochloromethane
Concen: 22.73 ug/l
RT: 3.88 min Scan# 339
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	86.3	69.8	104.6





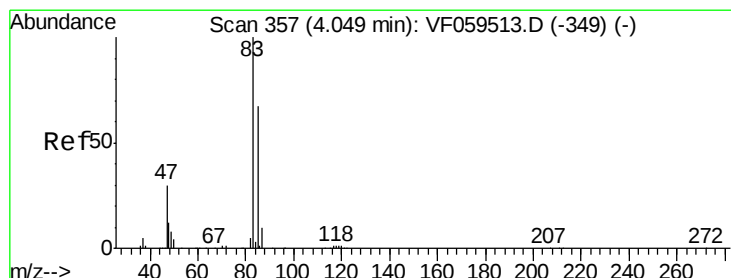
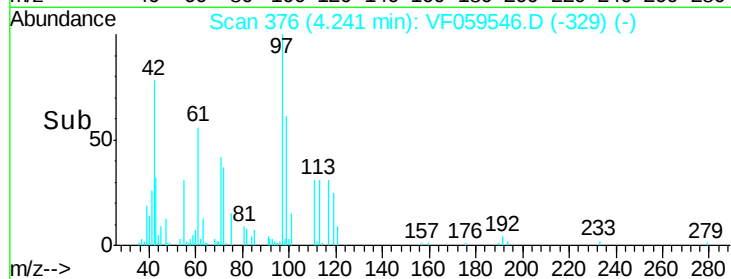
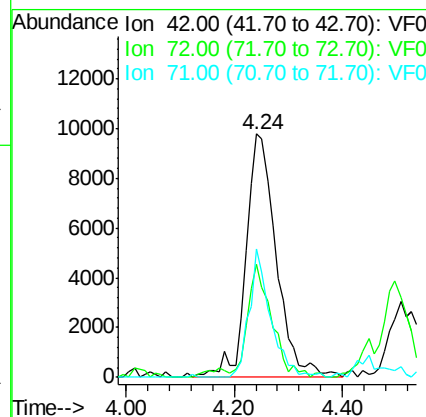
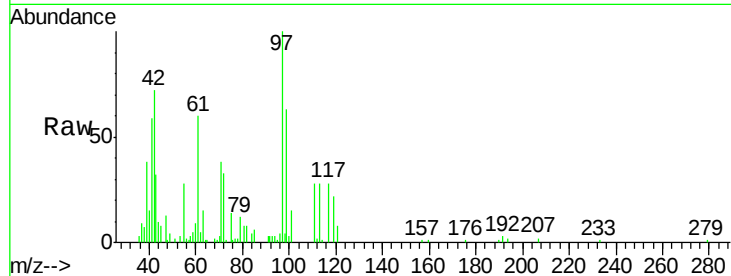
#29
Tetrahydrofuran
Concen: 107.76 ug/l
RT: 4.24 min Scan# 376
Delta R.T. -0.03 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.6	28.7	43.1
71	37.5	30.8	46.2

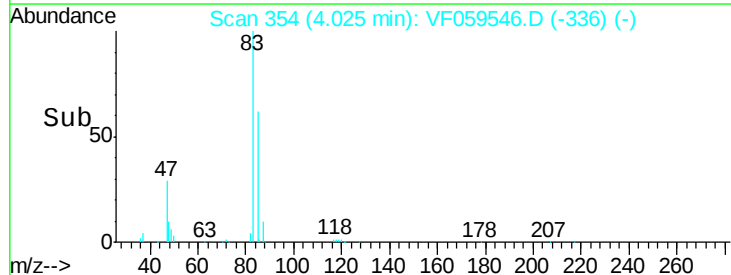
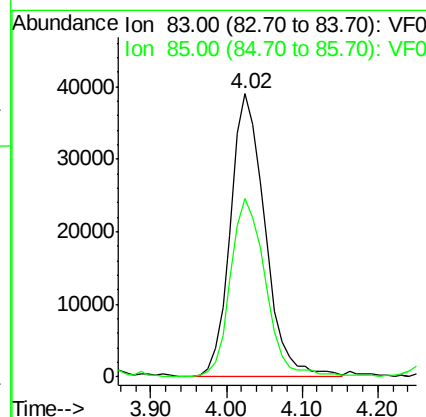
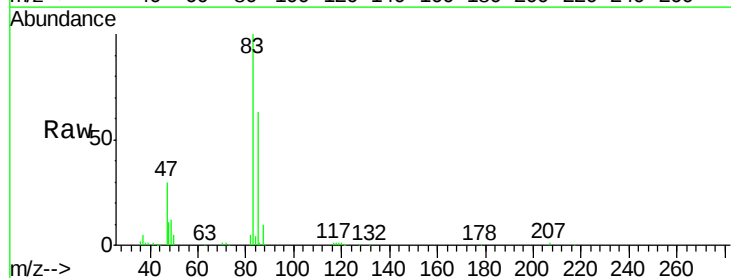
Manual Integrations
APPROVED

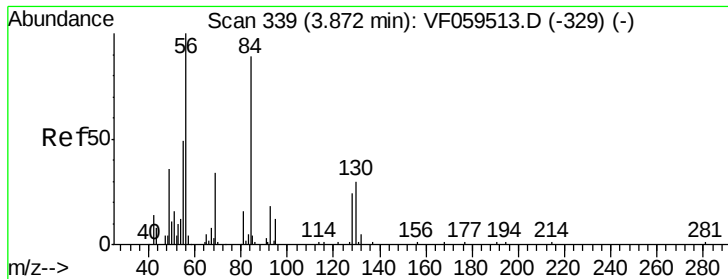
apatel
7/19/2018 3:17:19 PM



#30
Chloroform
Concen: 24.50 ug/l
RT: 4.02 min Scan# 354
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	53.2	79.8





#31

Cyclohexane

Concen: 27.51 ug/l

RT: 3.85 min Scan# 336

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

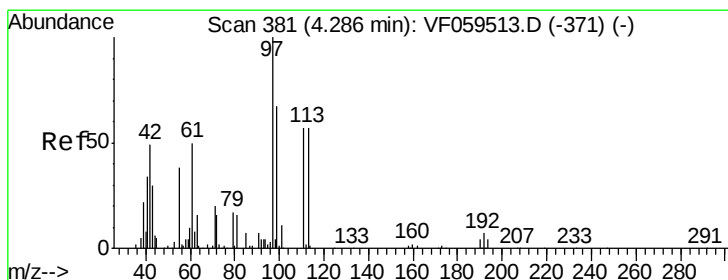
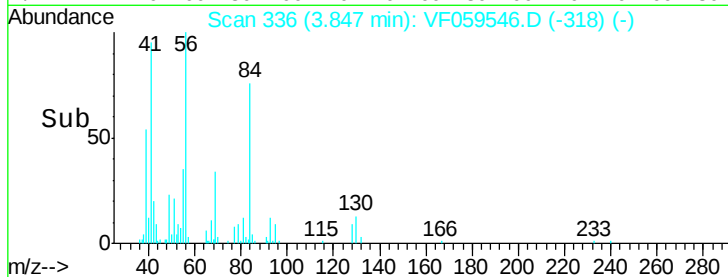
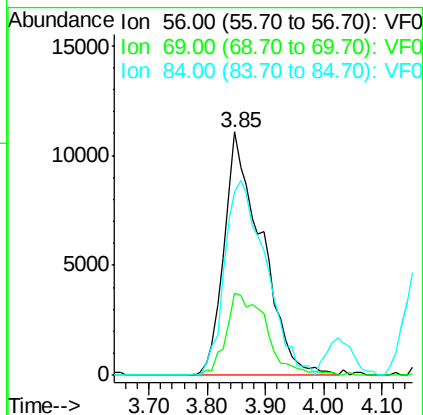
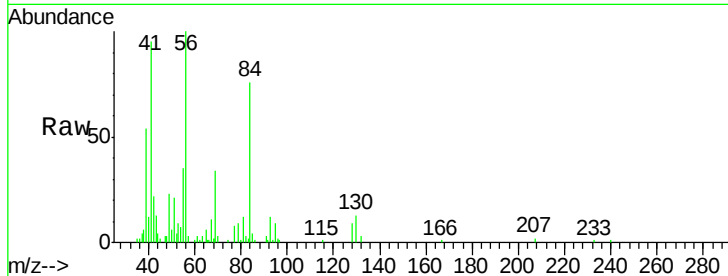
ClientSampleId :

VF0719SBS01

Tot Ion:	56	Resp:	49696
Ion	Ratio	Lower	Upper
56	100		
69	33.7	27.6	41.4
84	75.6	71.4	107.2

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#32

1,1,1-Trichloroethane

Concen: 30.86 ug/l

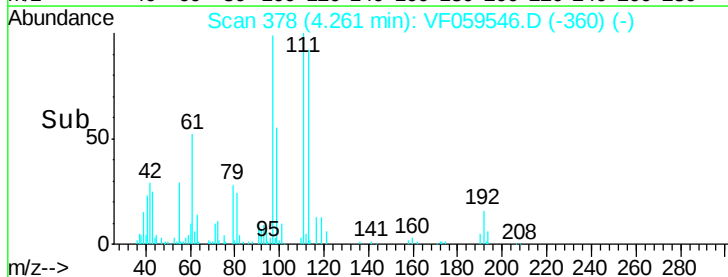
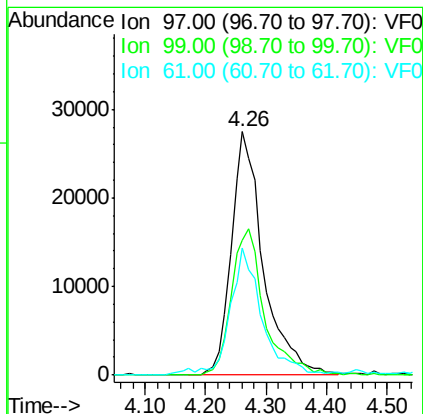
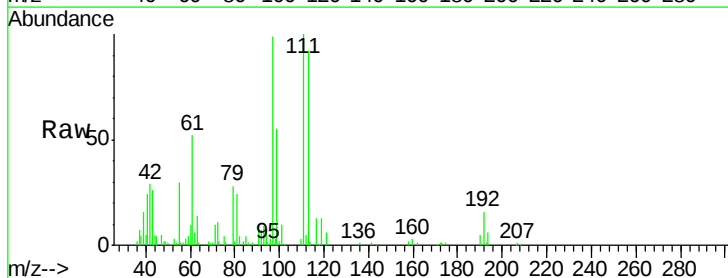
RT: 4.26 min Scan# 378

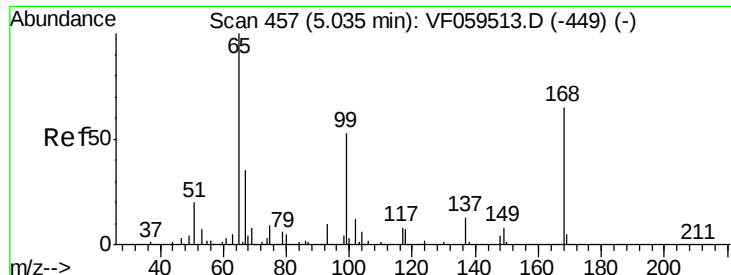
Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	97	Resp:	101043
Ion	Ratio	Lower	Upper
97	100		
99	55.2	53.5	80.3
61	52.2	39.7	59.5





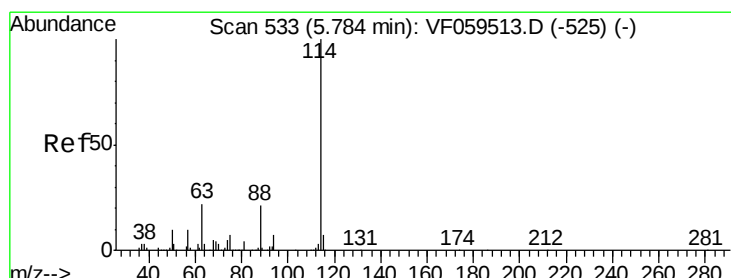
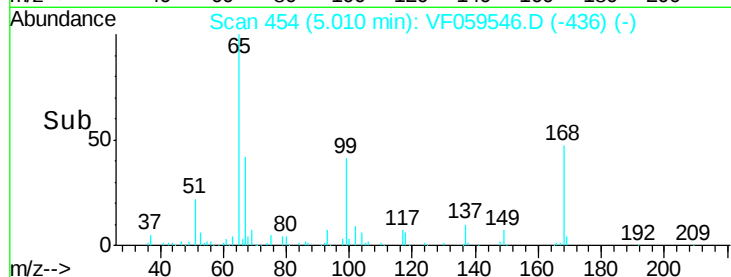
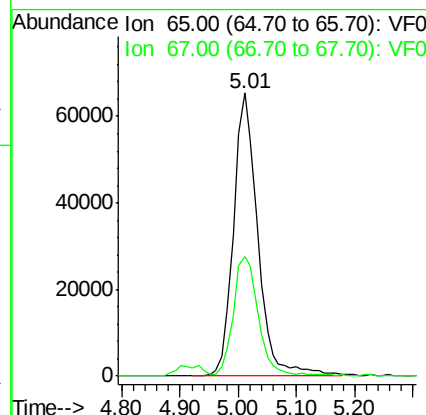
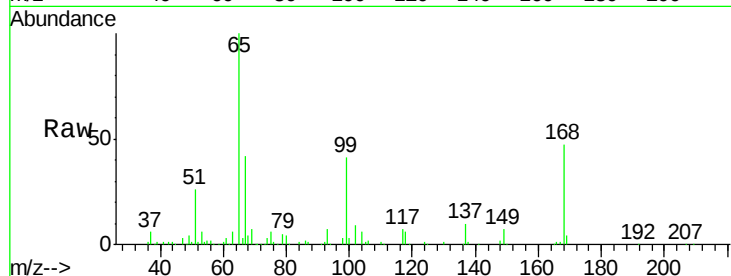
#33
 1,2-Dichloroethane-d4
 Concen: 56.79 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.02 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	190222		
67	42.1	0.0	91.2	

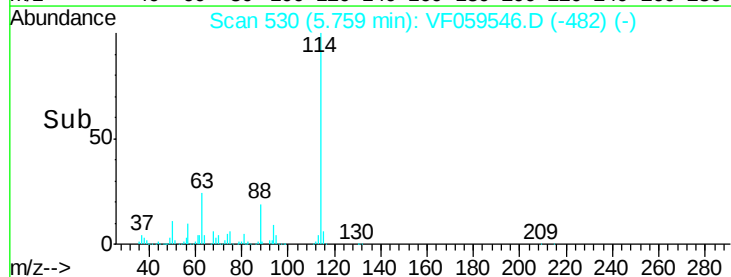
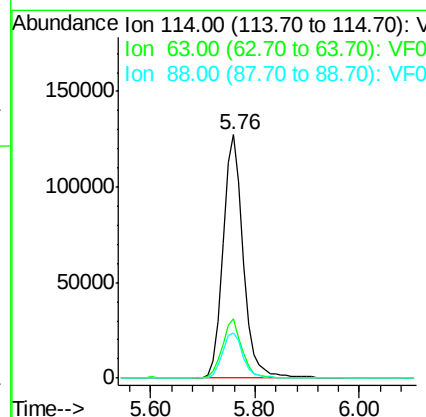
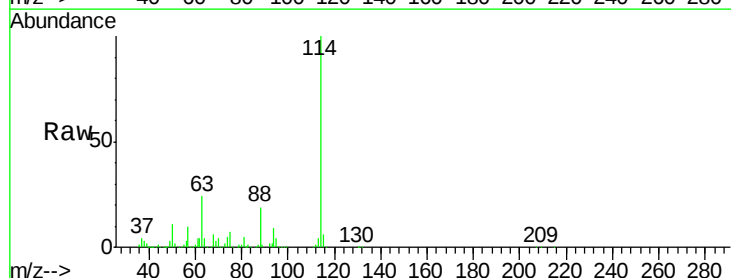
Manual Integrations
 APPROVED

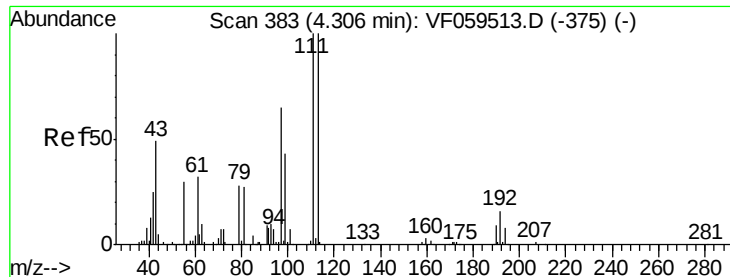
apatel
 7/19/2018 3:17:19 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.02 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	341875		
63	24.2	0.0	44.8	
88	18.5	0.0	42.6	





#35

Dibromofluoromethane

Concen: 52.82 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

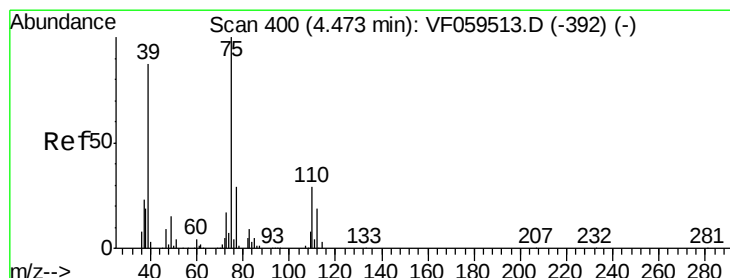
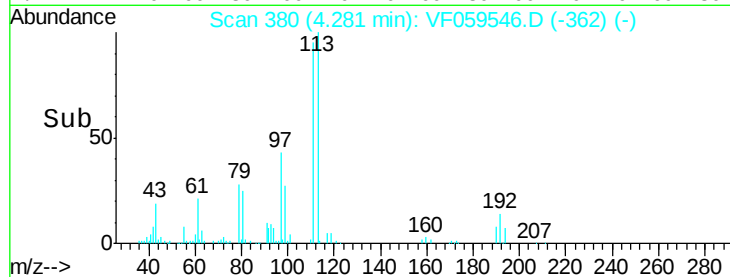
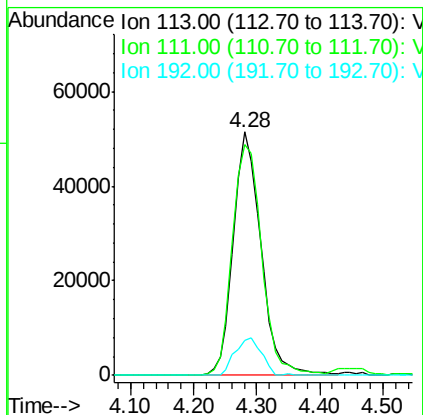
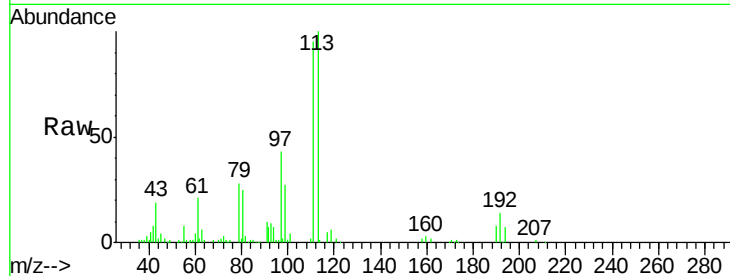
ClientSampleId :

VF0719SBS01

Tot Ion:	113	Resp:	156407
Ion Ratio	Lower	Upper	
113	100		
111	95.0	80.3	120.5
192	14.5	13.1	19.7

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#36

1,1-Dichloropropene

Concen: 20.41 ug/l

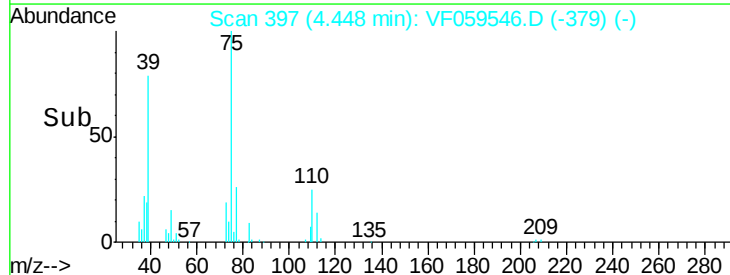
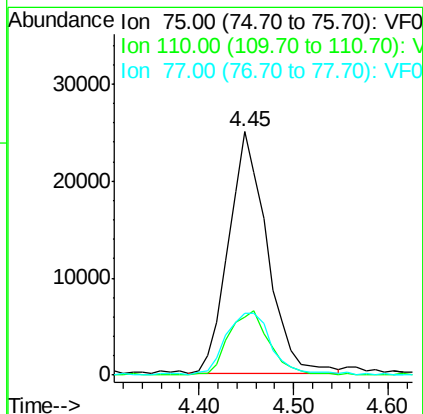
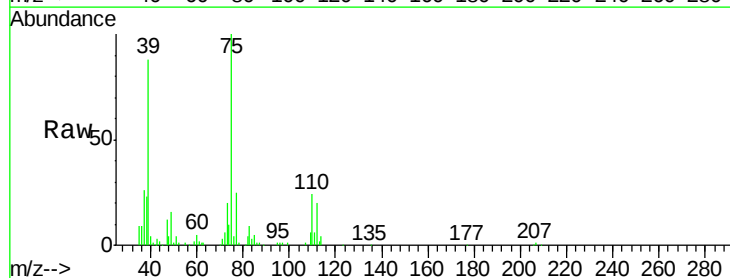
RT: 4.45 min Scan# 397

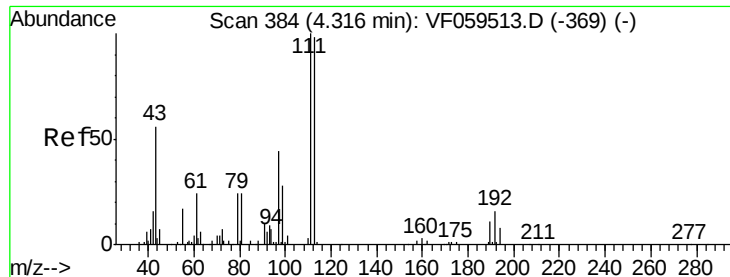
Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	75	Resp:	69829
Ion Ratio	Lower	Upper	
75	100		
110	24.0	14.6	43.8
77	25.5	23.7	35.5





#37

Ethyl Acetate

Concen: 16.97 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.03 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

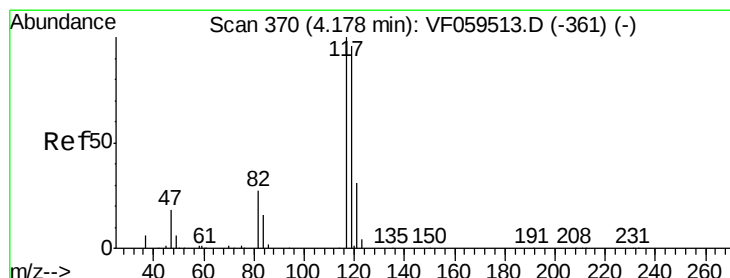
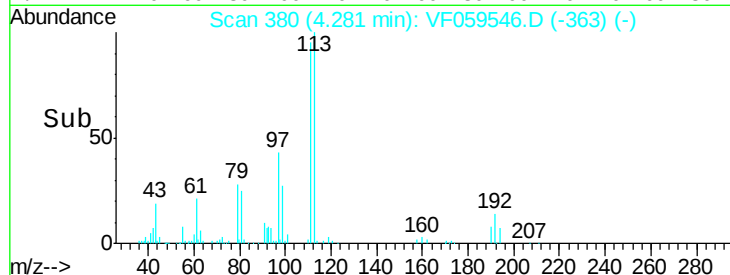
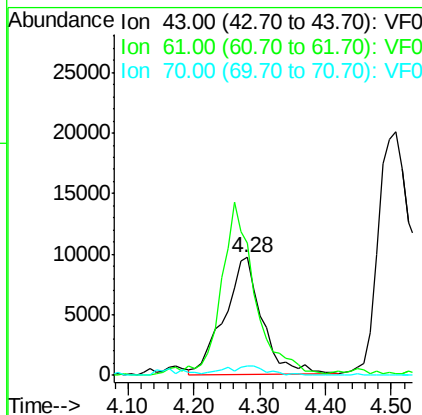
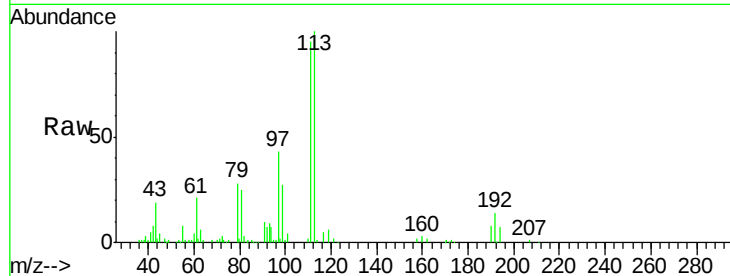
ClientSampleId :

VF0719SBS01

Tot Ion:	43	Resp:	38258
Ion Ratio	Lower	Upper	
43	100		
61	112.0	33.7	50.5#
70	7.8	7.4	11.0

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#38

Carbon Tetrachloride

Concen: 26.27 ug/l m

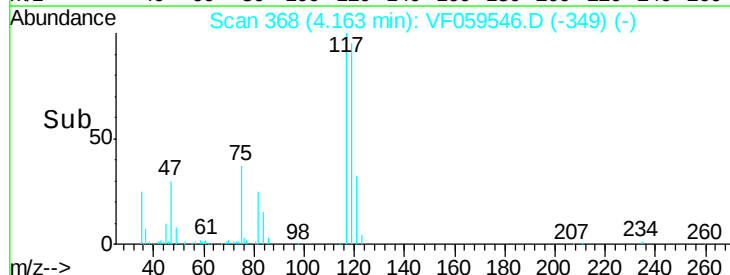
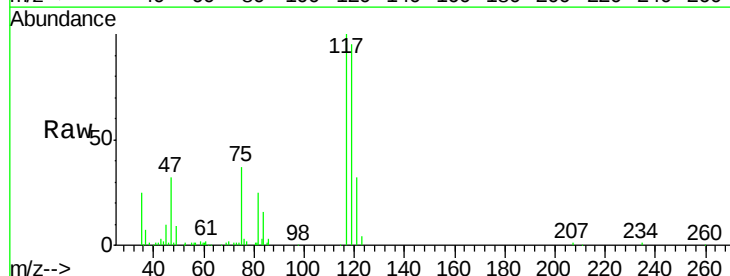
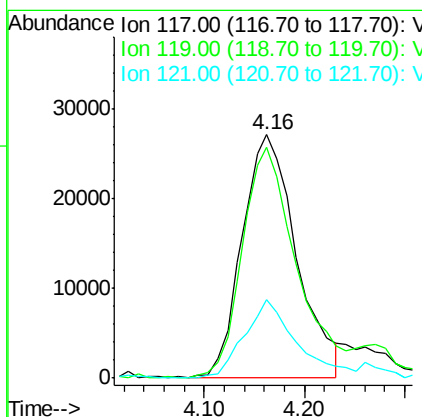
RT: 4.16 min Scan# 368

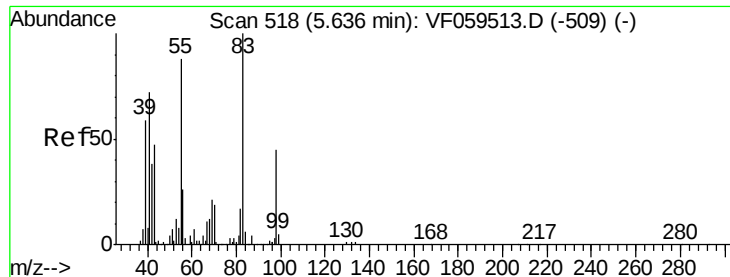
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	117	Resp:	103021
Ion Ratio	Lower	Upper	
117	100		
119	94.6	77.6	116.4
121	32.2	24.9	37.3





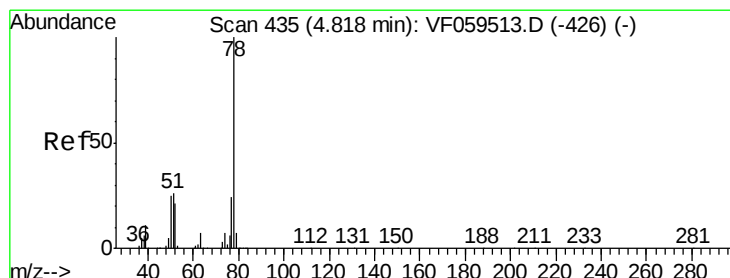
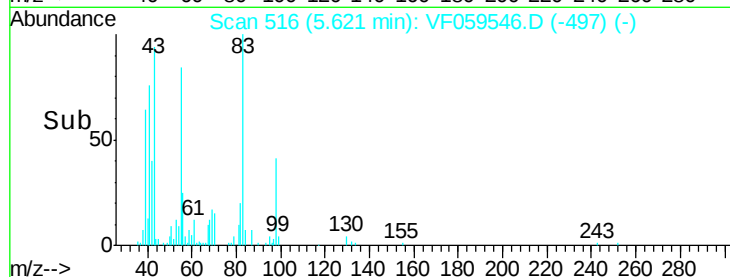
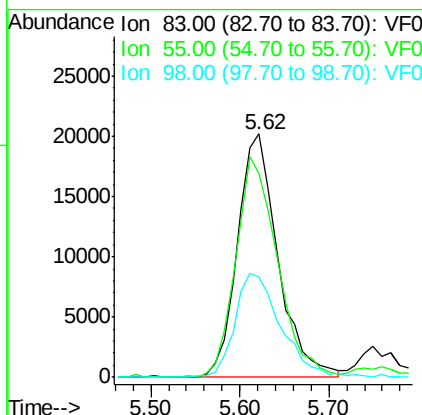
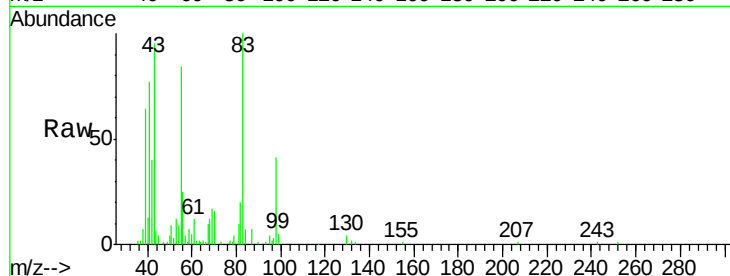
#39
Methvlcvclohexane
Concen: 24.55 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.8	70.2	105.4
98	41.1	36.2	54.2

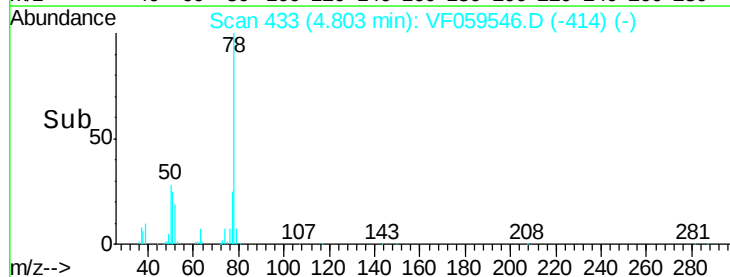
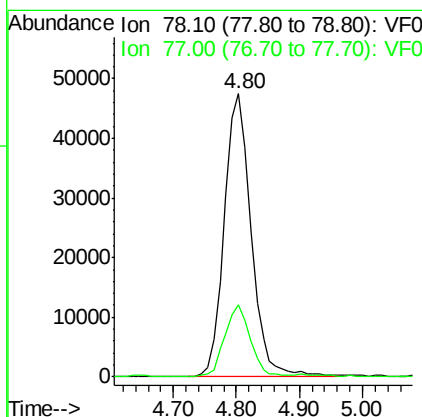
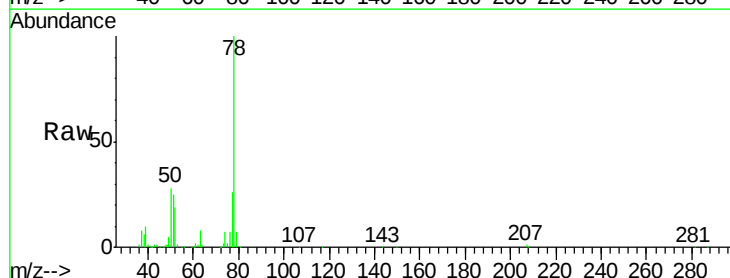
Manual Integrations
APPROVED

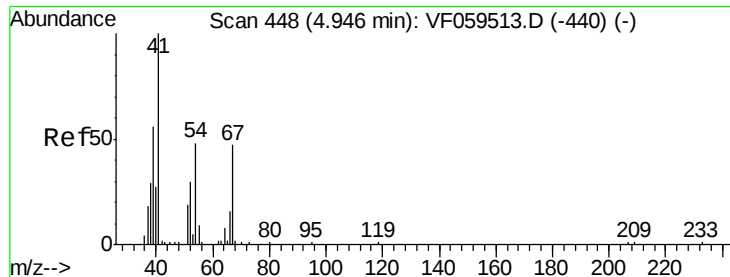
apatel
7/19/2018 3:17:19 PM



#40
Benzene
Concen: 21.22 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.6	19.4	29.0





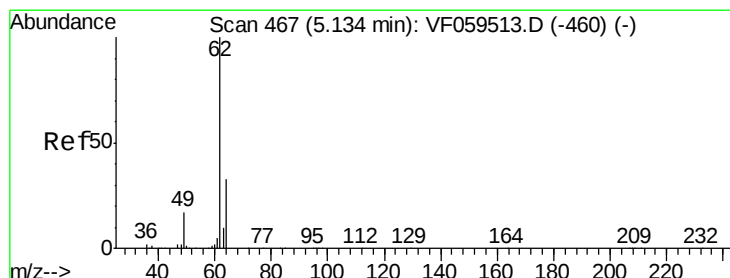
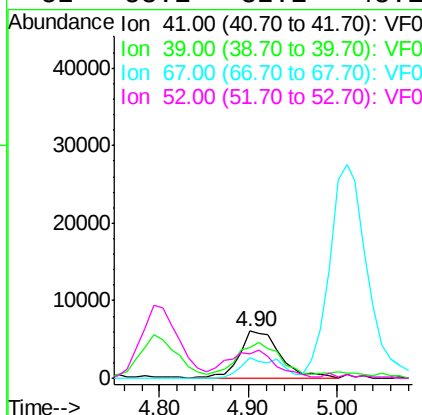
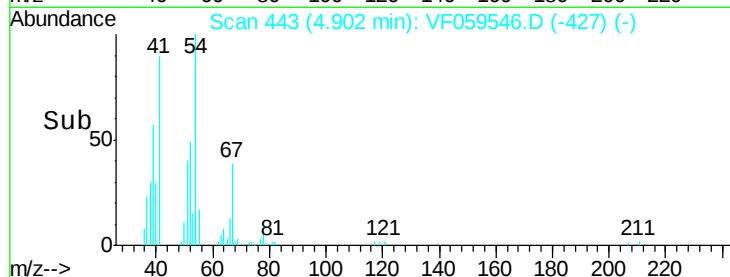
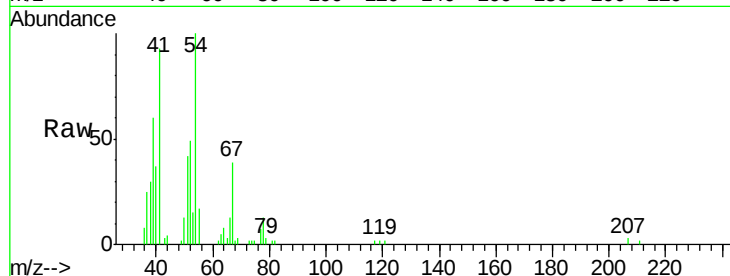
#41
Methacrylonitrile
Concen: 19.78 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.04 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		19412		
39	64.4	49.4	74.0		
67	42.4	37.4	56.2		
52	53.1	32.1	48.1		

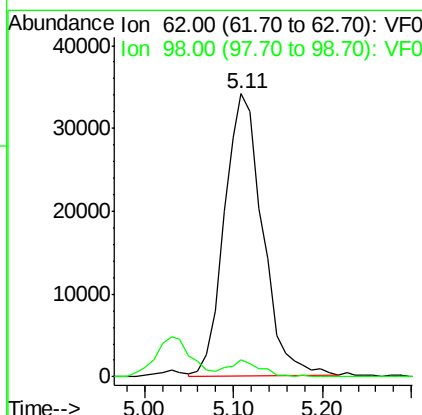
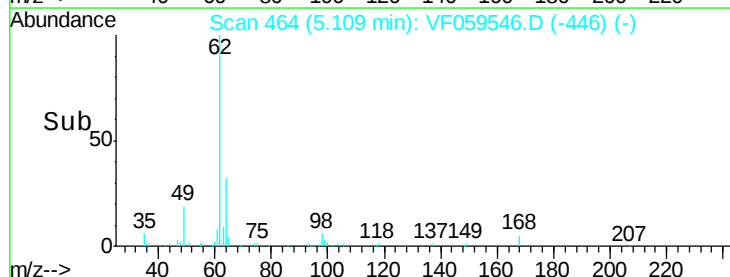
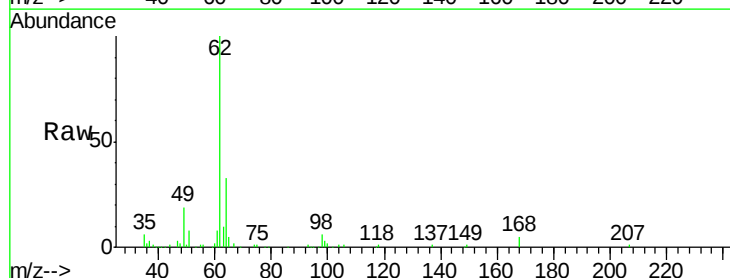
Manual Integrations
APPROVED

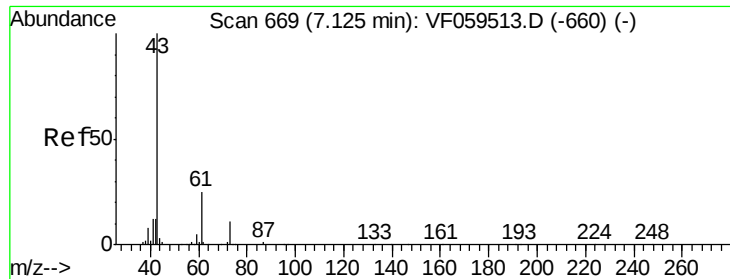
apatel
7/19/2018 3:17:19 PM



#42
1,2-Dichloroethane
Concen: 23.35 ug/l
RT: 5.11 min Scan# 464
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		101806		
98	6.2	0.0	9.6		





#43

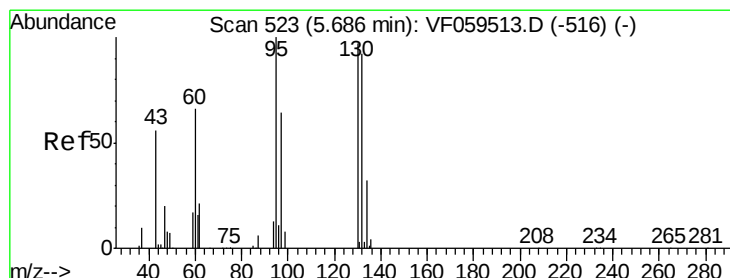
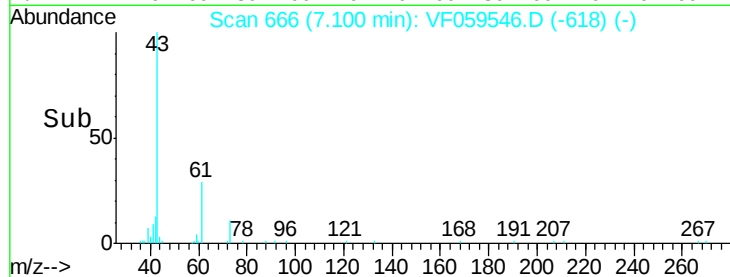
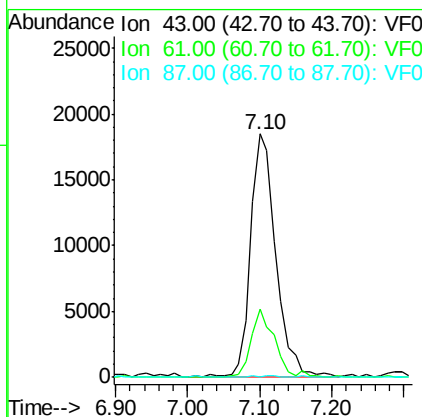
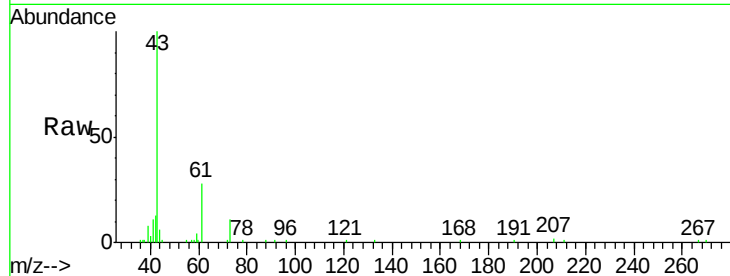
Isopropyl Acetate
 Concen: 18.46 ug/l
 RT: 7.10 min Scan# 666
 Delta R.T. -0.02 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.1	20.3	30.5
87	0.0	0.4	0.6

Manual Integrations
 APPROVED

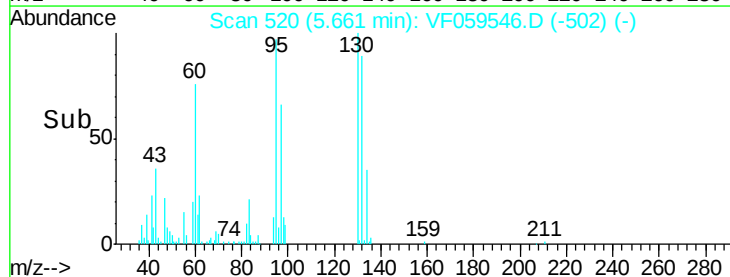
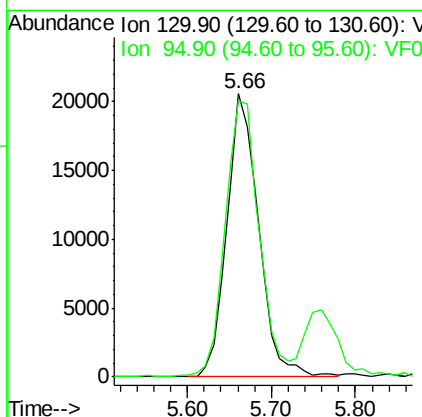
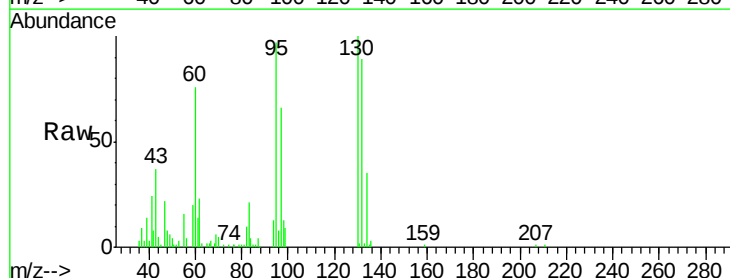
apatel
 7/19/2018 3:17:19 PM

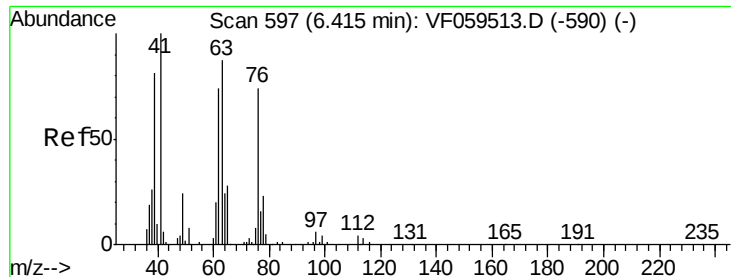


#44

Trichloroethene
 Concen: 22.01 ug/l
 RT: 5.66 min Scan# 520
 Delta R.T. -0.02 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	206.6





#45

1,2-Dichloropropane

Concen: 21.03 ug/l

RT: 6.39 min Scan# 594

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 63 Resp: 38755

Ion Ratio Lower Upper

63 100

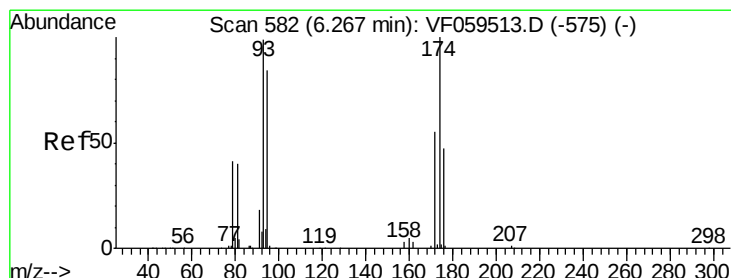
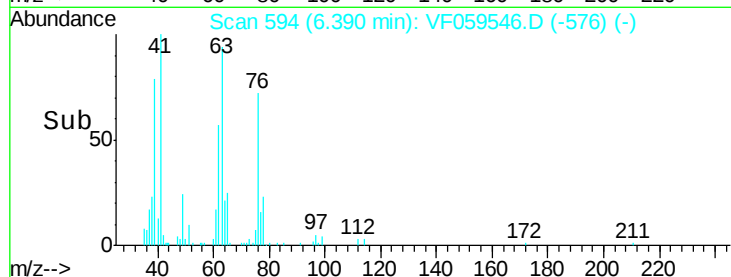
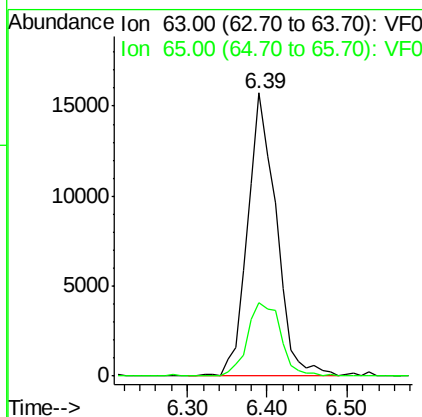
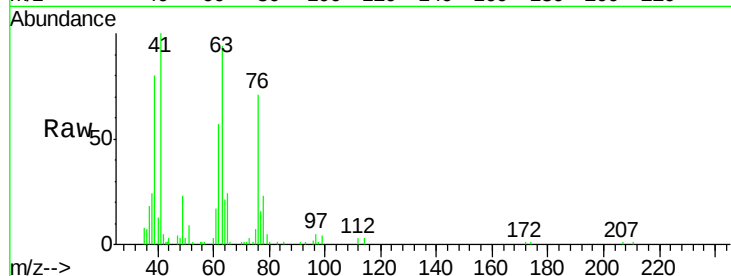
65 25.9 26.1 39.1#

Manual Integrations

APPROVED

apatel

7/19/2018 3:17:19 PM



#46

Dibromomethane

Concen: 21.86 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

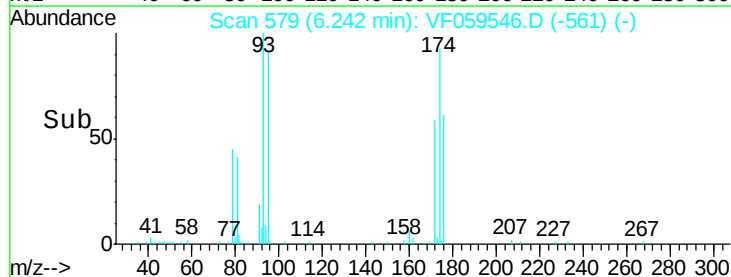
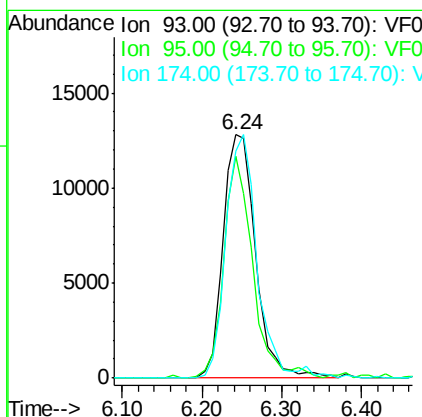
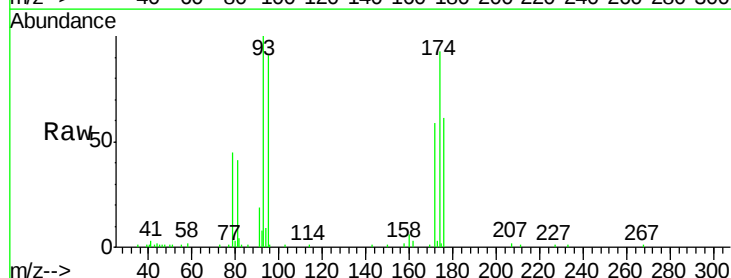
Tgt Ion: 93 Resp: 36685

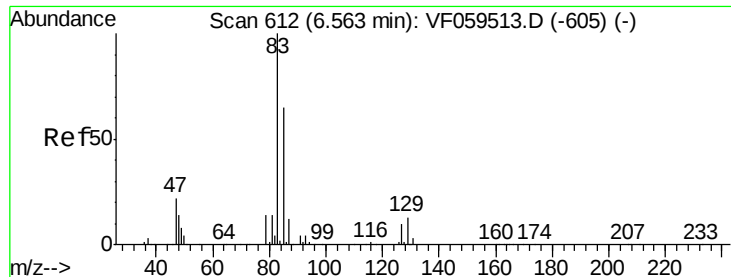
Ion Ratio Lower Upper

93 100

95 90.9 68.3 102.5

174 95.4 81.2 121.8





#47

Bromodichloromethane

Concen: 22.54 ug/l

RT: 6.54 min Scan# 609

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

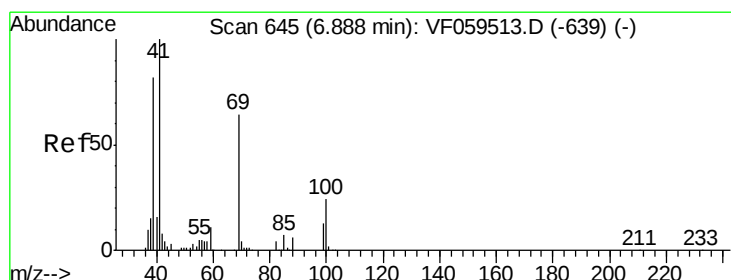
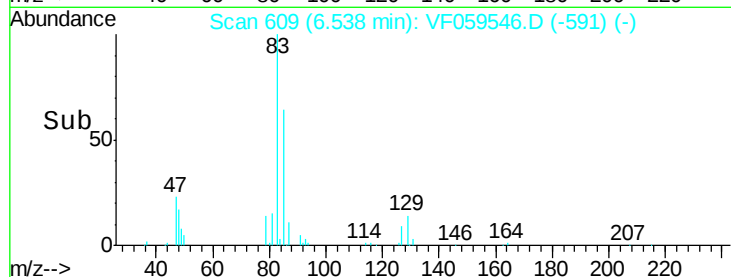
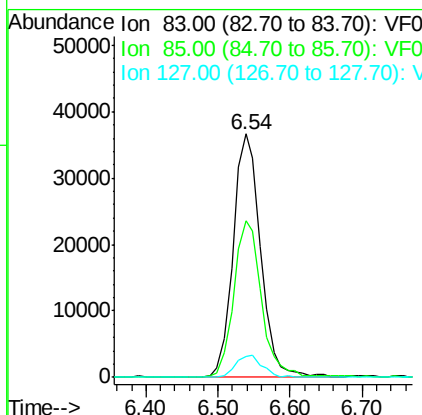
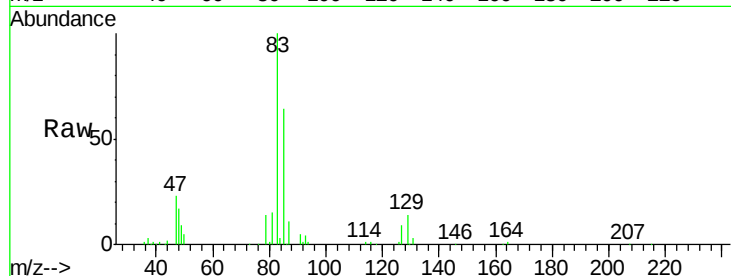
ClientSampleId :

VF0719SBS01

Tot Ion:	83	Resp:	97373
Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.4	78.6
127	8.7	8.2	12.4

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#48

Methyl methacrylate

Concen: 19.08 ug/l

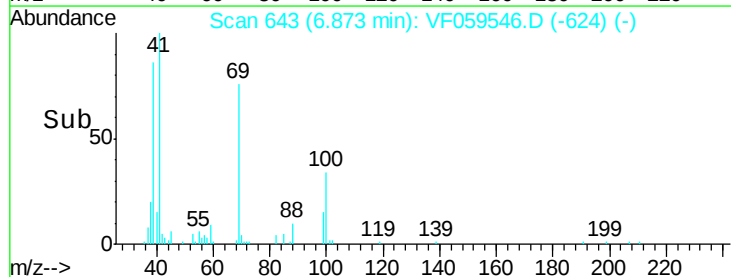
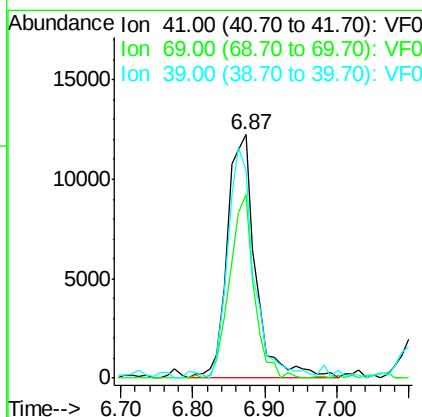
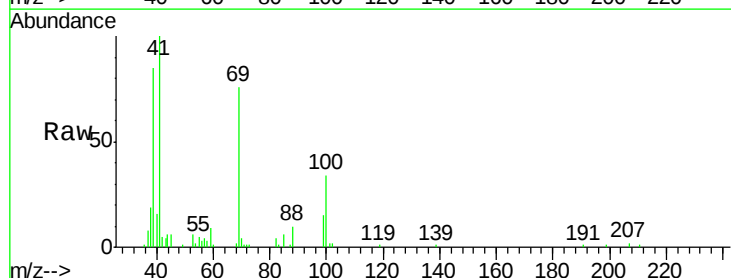
RT: 6.87 min Scan# 643

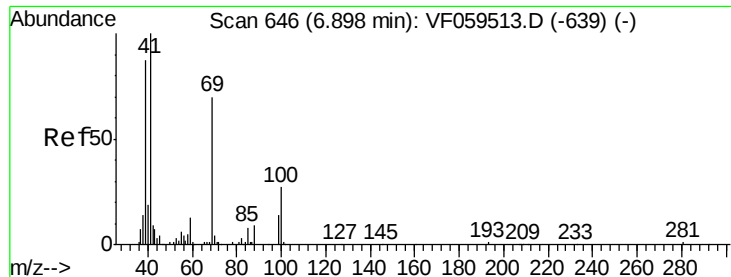
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	41	Resp:	33506
Ion	Ratio	Lower	Upper
41	100		
69	75.6	51.3	76.9
39	85.4	65.3	97.9





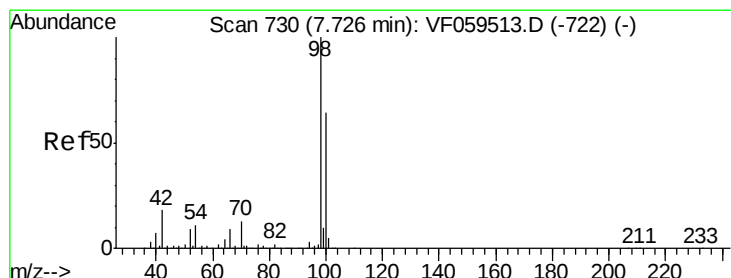
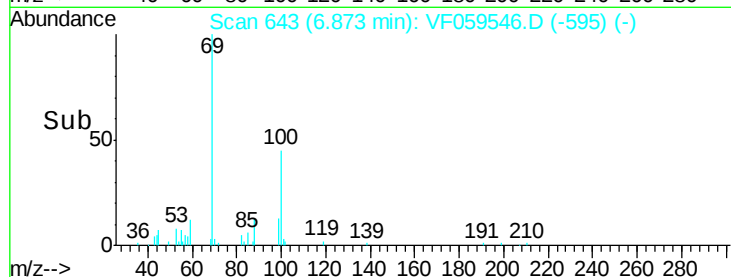
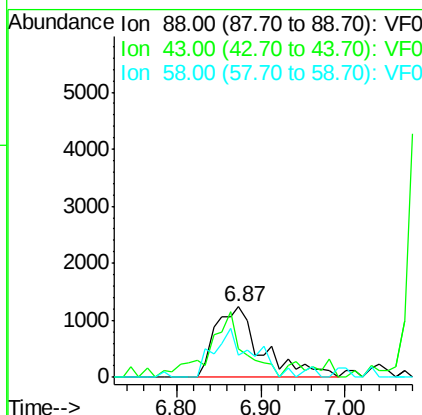
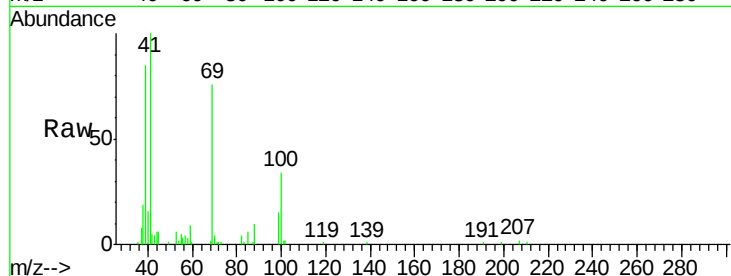
#49
1,4-Dioxane
Concen: 560.92 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	88	Resp	4750
Ion	Ratio	Lower	Upper
88	100		
43	41.5	64.8	97.2#
58	32.0	44.1	66.1#

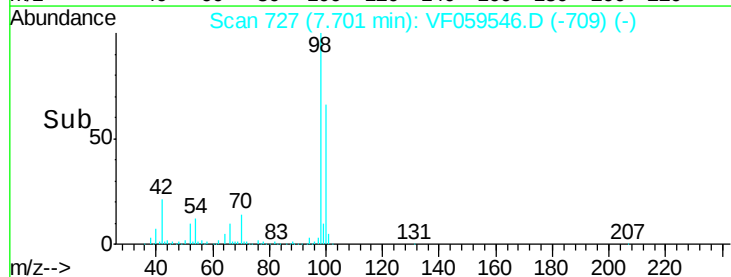
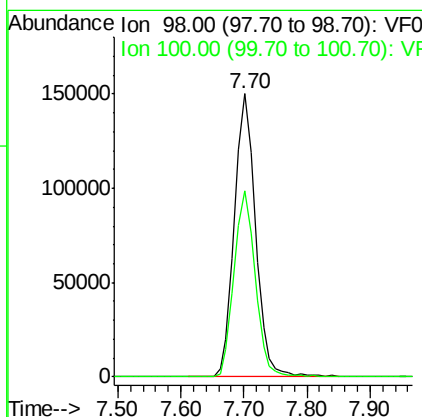
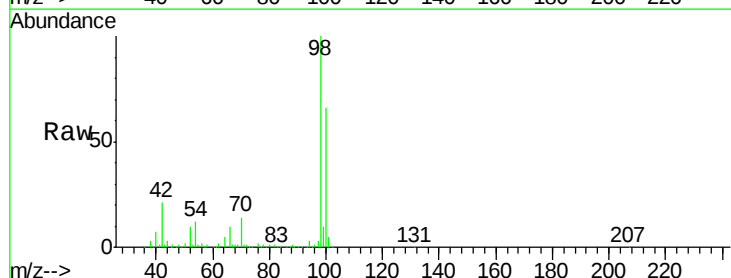
Manual Integrations
APPROVED

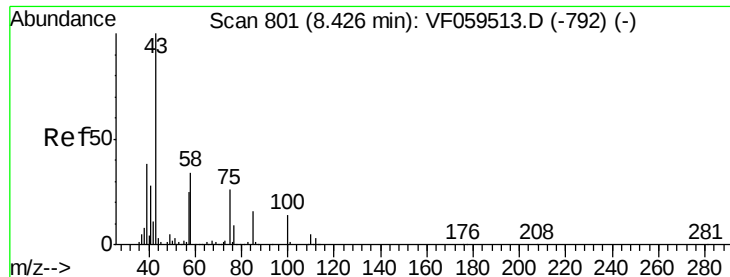
apatel
7/19/2018 3:17:19 PM



#50
Toluene-d8
Concen: 46.80 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	98	Resp	349086
Ion	Ratio	Lower	Upper
98	100		
100	65.7	50.9	76.3





#51

4-Methyl-2-Pentanone

Concen: 102.61 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 43 Resp: 178847

Ion Ratio Lower Upper

43 100

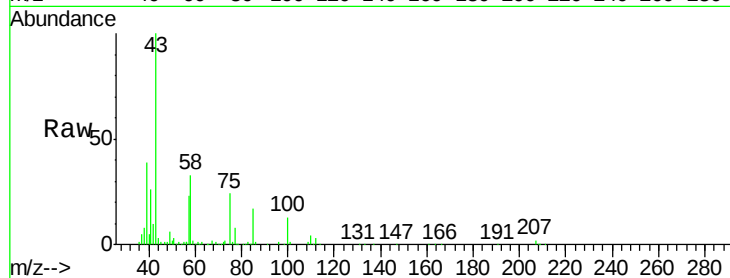
58 33.0 27.4 41.2

Manual Integrations

APPROVED

apatel

7/19/2018 3:17:19 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

60000

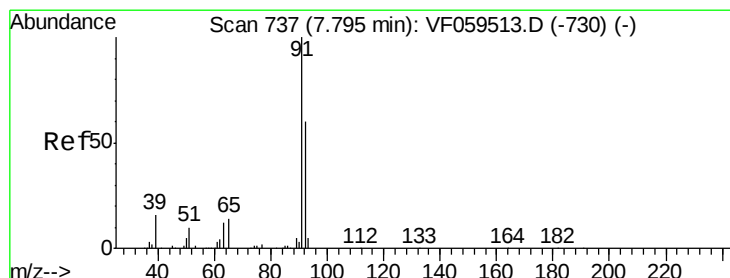
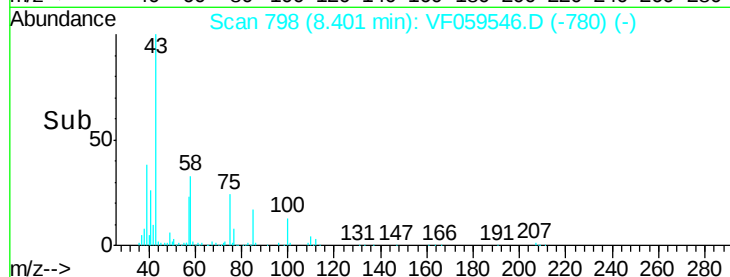
40000

20000

0

8.20 8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 21.28 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF059546.D

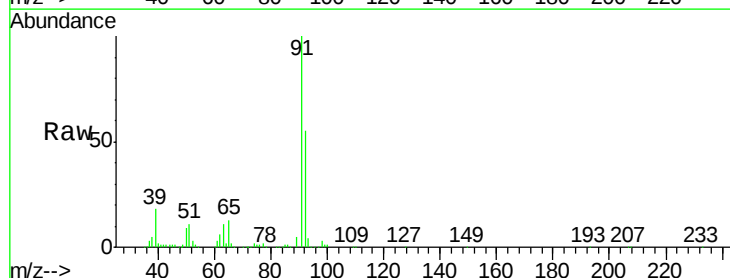
Acq: 19 Jul 2018 8:13

Tgt Ion: 92 Resp: 102442

Ion Ratio Lower Upper

92 100

91 182.0 134.2 201.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.77

80000

60000

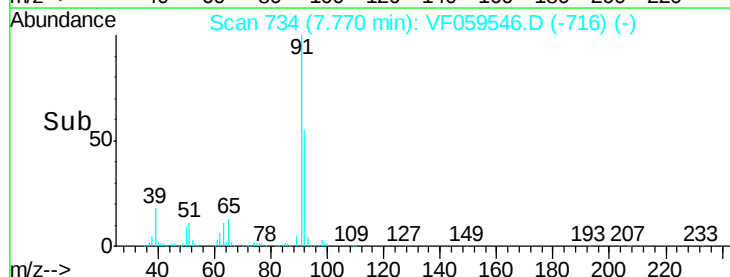
40000

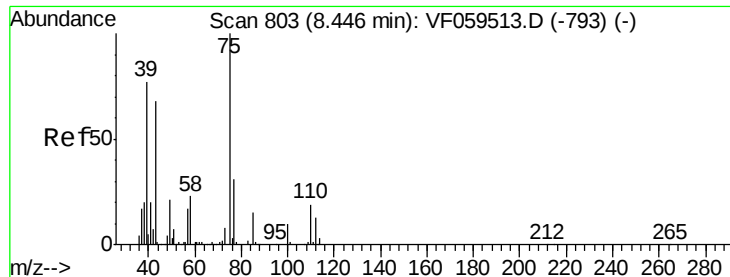
20000

0

7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 21.23 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tot Ion: 75 Resp: 84335

Ion Ratio Lower Upper

75 100

77 30.5 25.3 37.9

Instrument :

MSVOA_F

ClientSampleId :

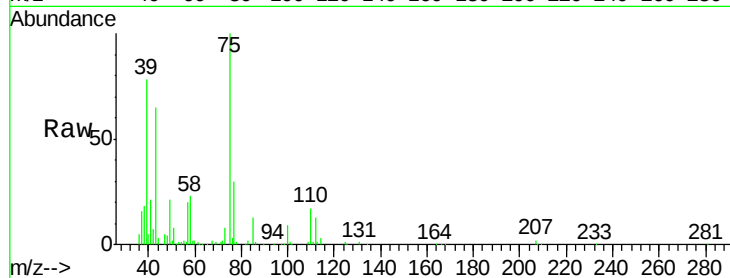
VF0719SBS01

Manual Integrations

APPROVED

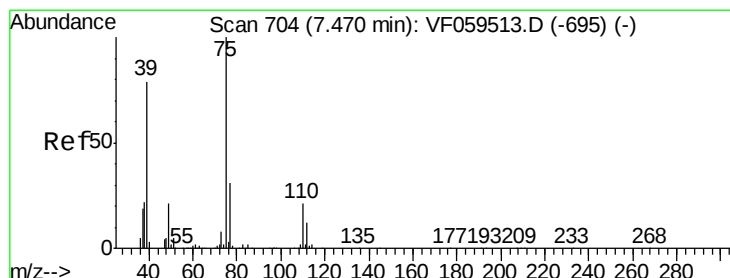
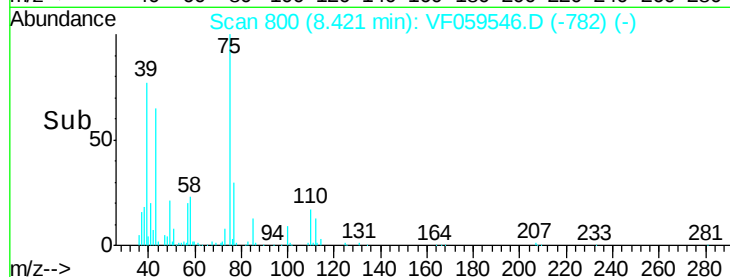
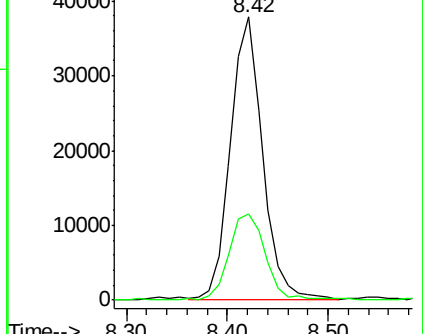
apatel

7/19/2018 3:17:19 PM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 20.28 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

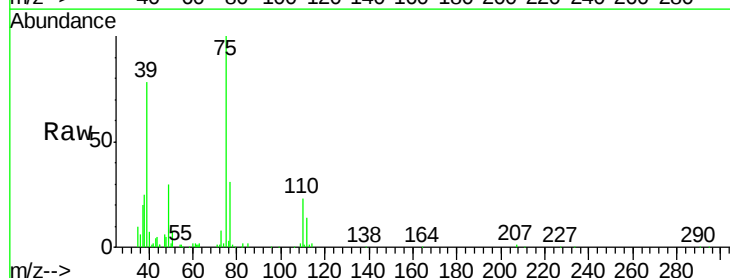
Tgt Ion: 75 Resp: 80215

Ion Ratio Lower Upper

75 100

77 31.1 25.0 37.6

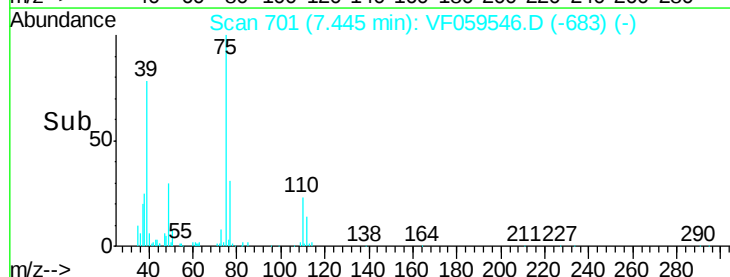
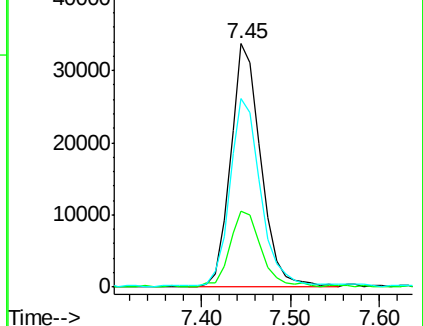
39 77.6 63.8 95.6

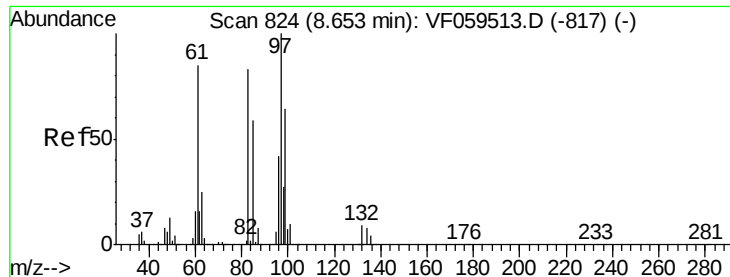


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 23.46 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

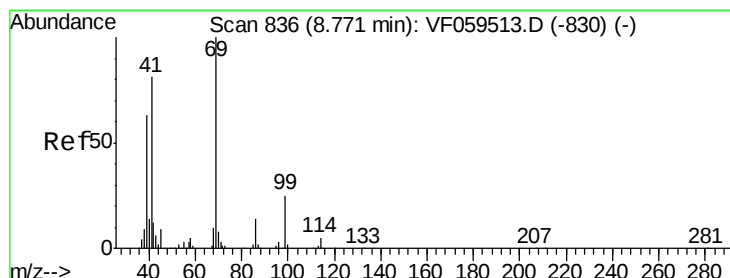
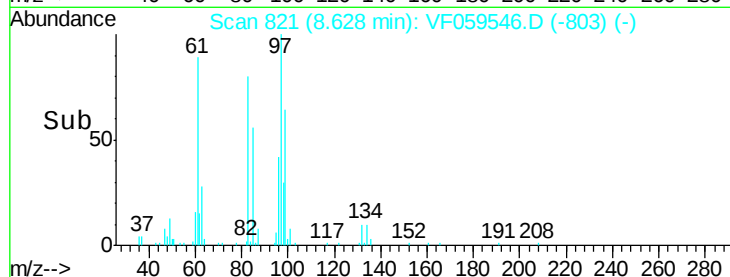
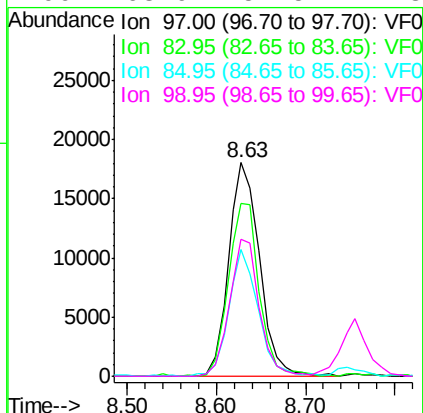
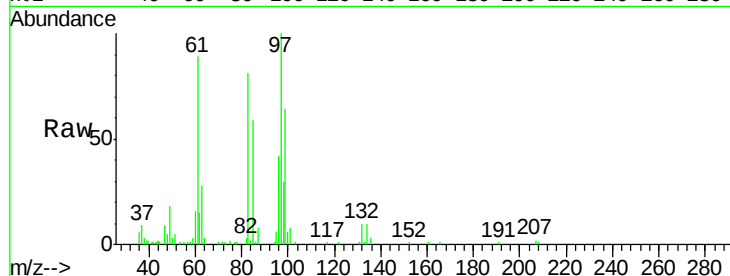
ClientSampleId :

VF0719SBS01

Tot Ion:	97	Resp:	43765
Ion Ratio	Lower	Upper	
97	100		
83	81.1	66.9	100.3
85	59.2	46.9	70.3
99	63.9	51.5	77.3

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#56

Ethyl methacrylate

Concen: 18.94 ug/l

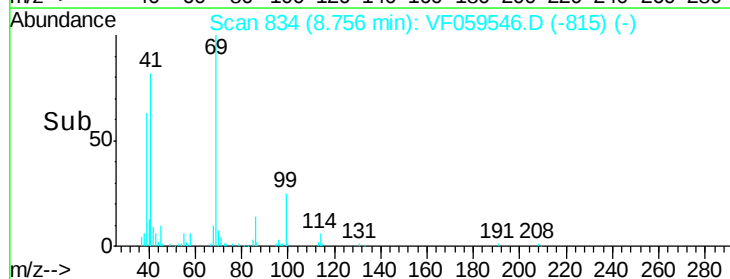
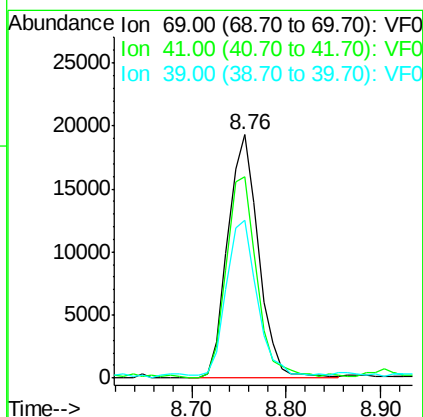
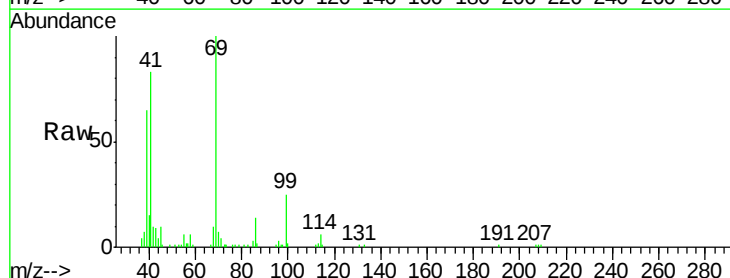
RT: 8.76 min Scan# 834

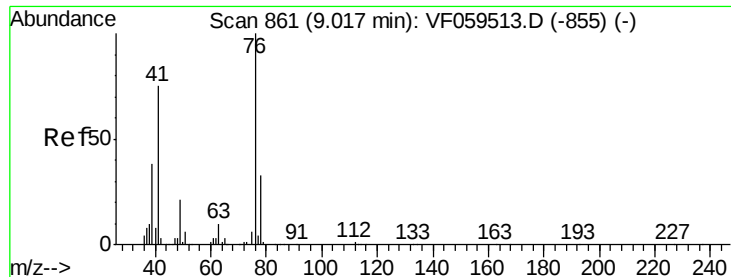
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	69	Resp:	43815
Ion Ratio	Lower	Upper	
69	100		
41	82.7	65.4	98.2
39	64.9	51.0	76.4





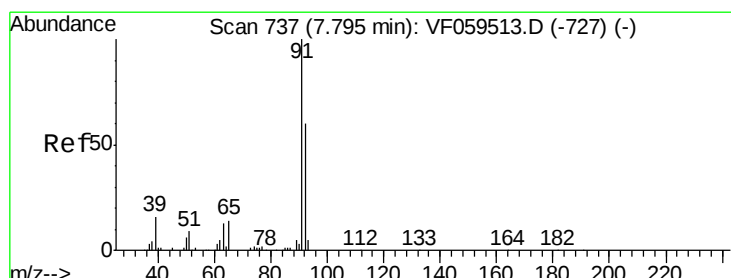
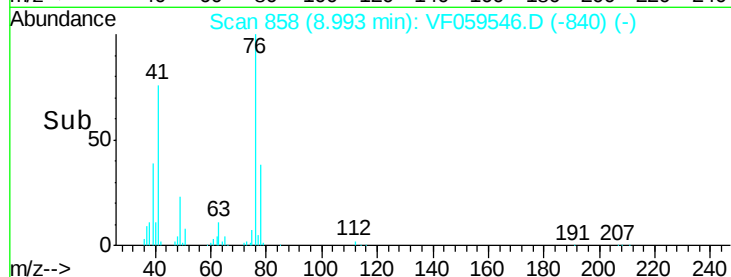
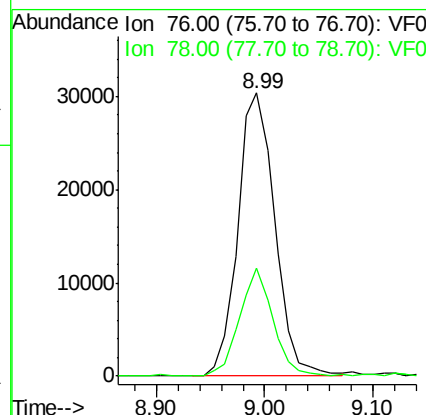
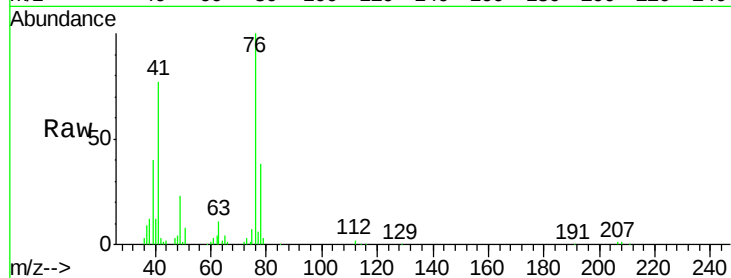
#57
 1,3-Dichloropropane
 Concen: 21.90 ug/l
 RT: 8.99 min Scan# 858
 Delta R.T. -0.02 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	38.1	26.4	39.6

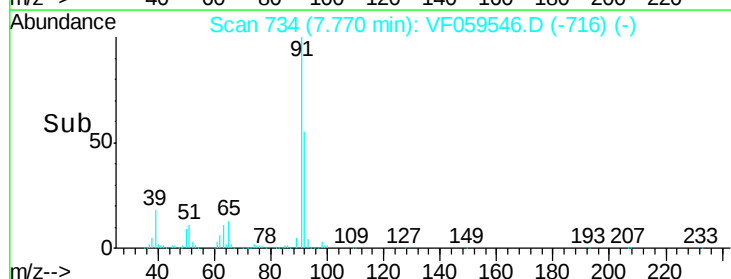
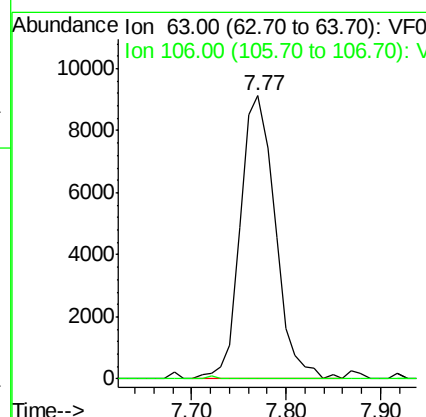
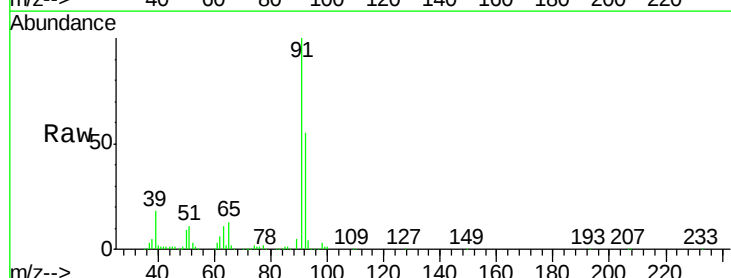
Manual Integrations
 APPROVED

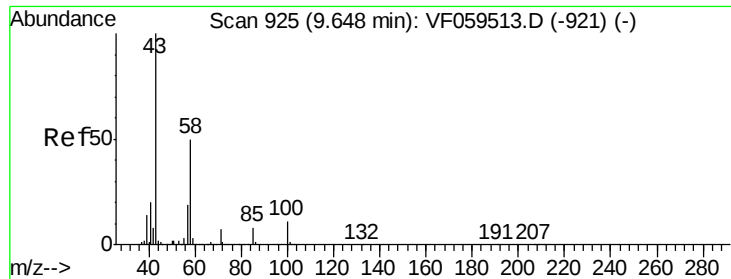
apatel
 7/19/2018 3:17:19 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 114.51 ug/l
 RT: 7.77 min Scan# 734
 Delta R.T. -0.02 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





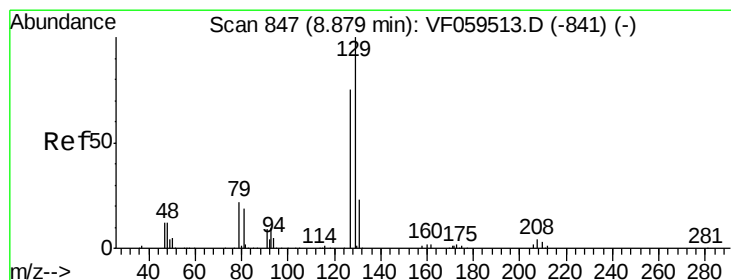
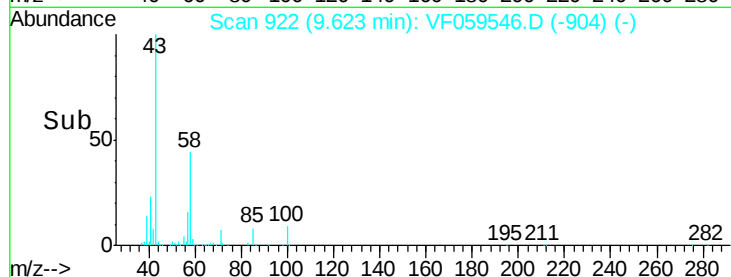
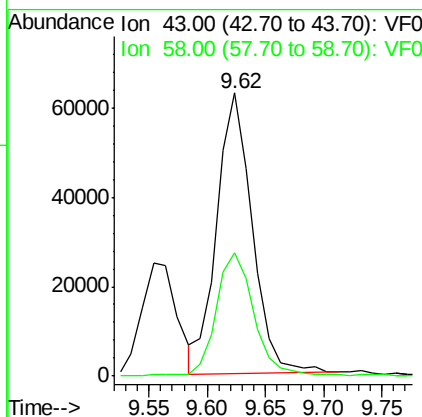
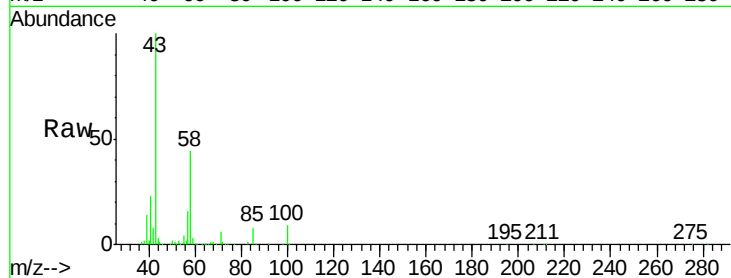
#59
2-Hexanone
Concen: 100.52 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.6	23.3	69.9

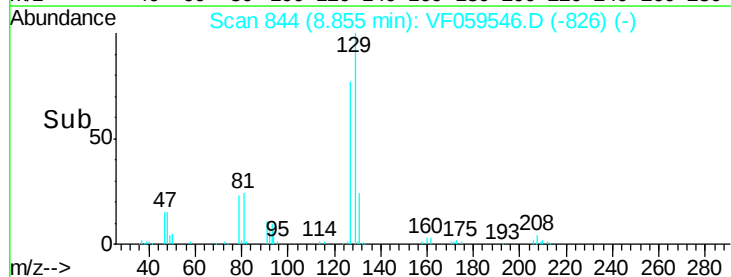
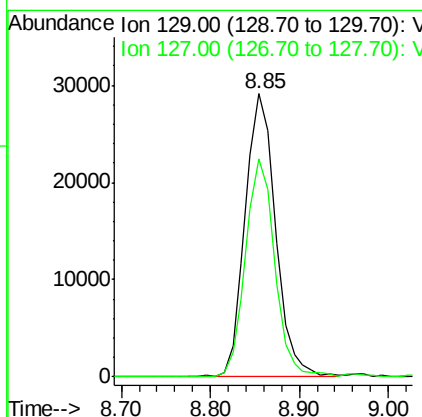
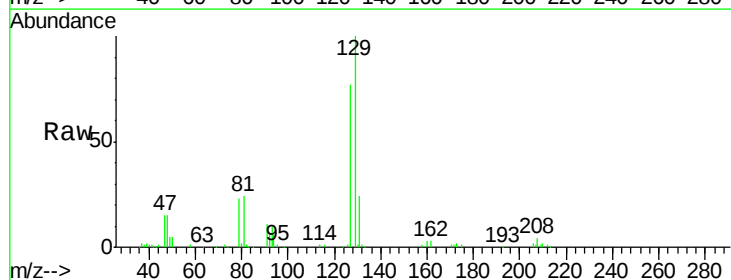
Manual Integrations
APPROVED

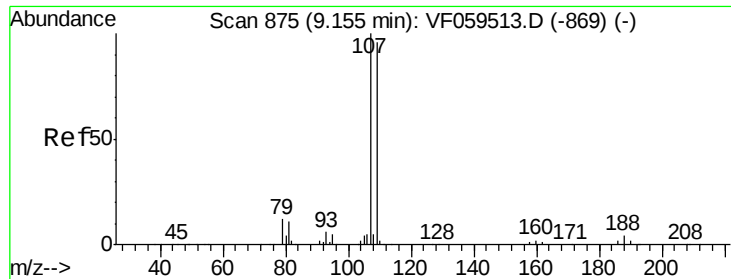
apatel
7/19/2018 3:17:19 PM



#60
Dibromochloromethane
Concen: 21.94 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	37.6	112.8





#61

1,2-Dibromoethane

Concen: 22.59 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 107 Resp: 52297

Ion Ratio Lower Upper

107 100

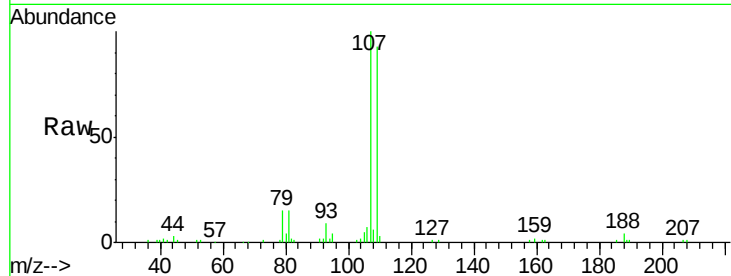
109 92.6 76.5 114.7

Manual Integrations

APPROVED

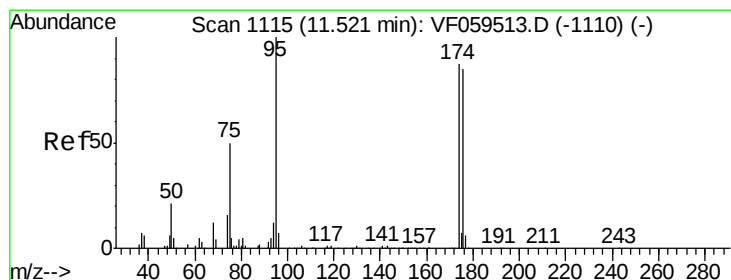
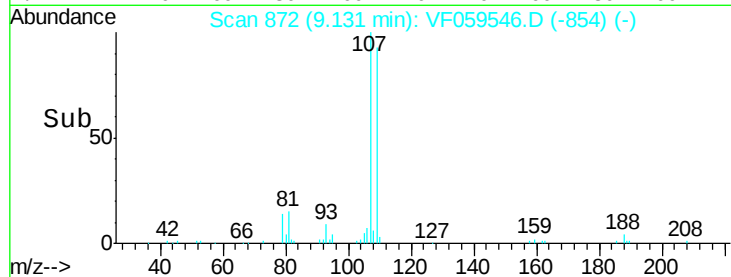
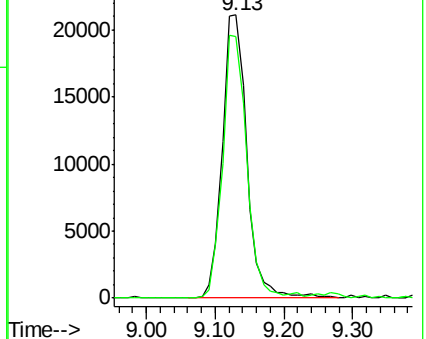
apatel

7/19/2018 3:17:19 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.34 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

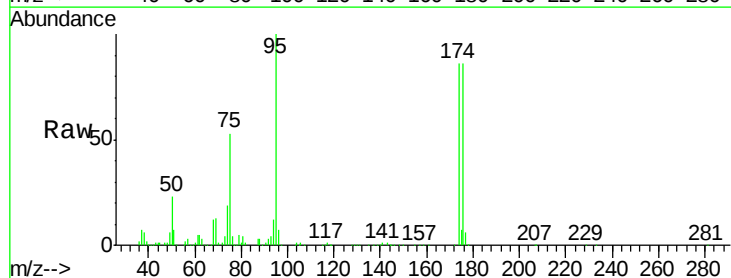
Tgt Ion: 95 Resp: 204779

Ion Ratio Lower Upper

95 100

174 85.7 0.0 174.4

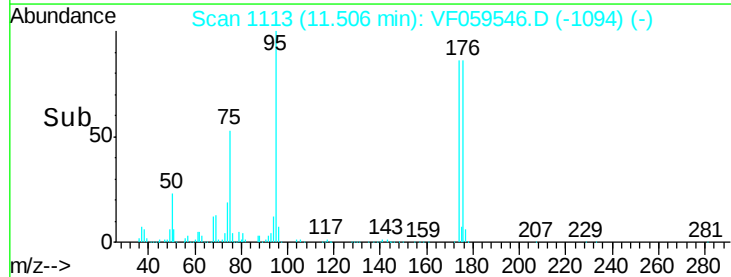
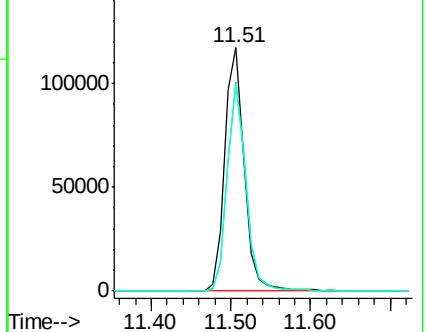
176 85.5 0.0 169.4

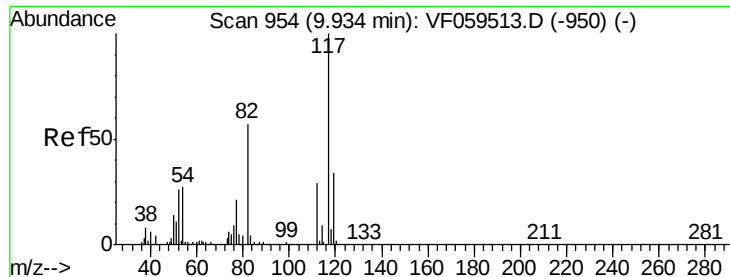


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





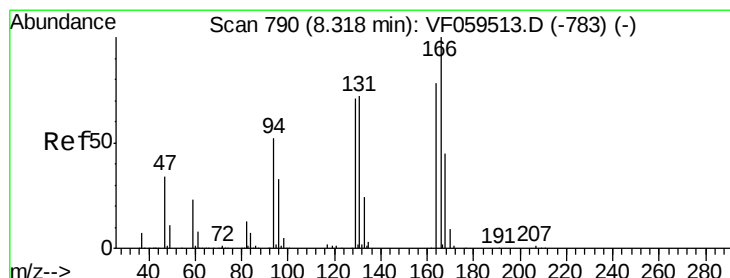
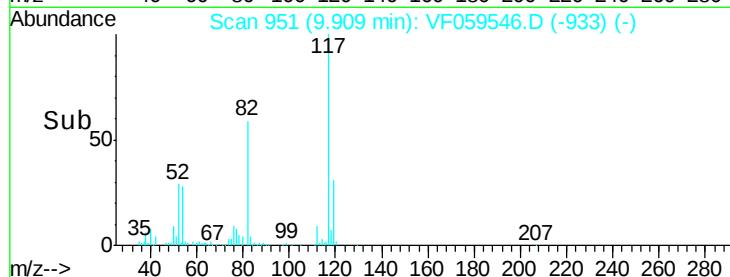
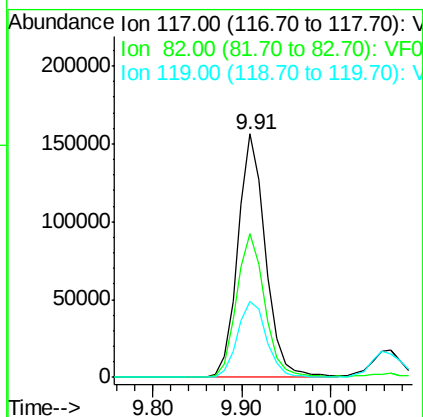
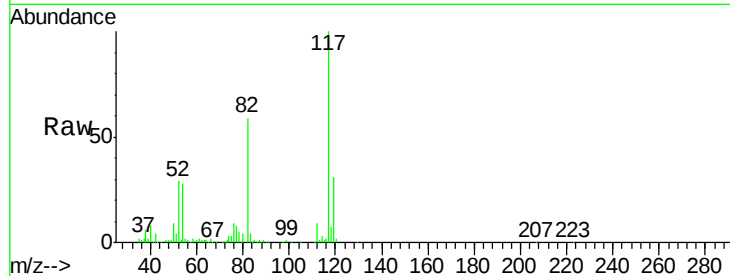
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	337449		
82	59.2	46.1	69.1	
119	31.2	27.2	40.8	

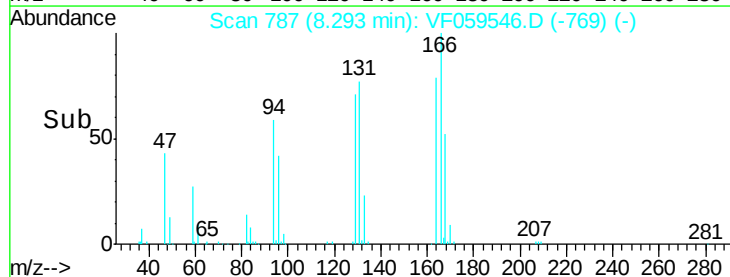
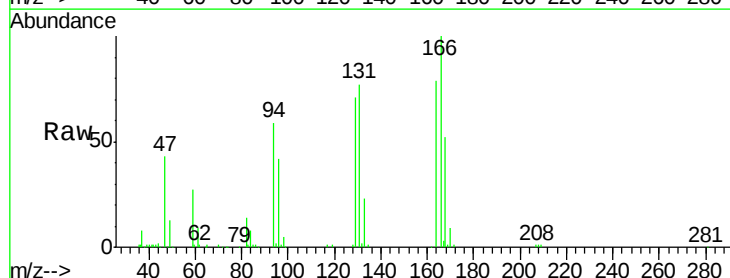
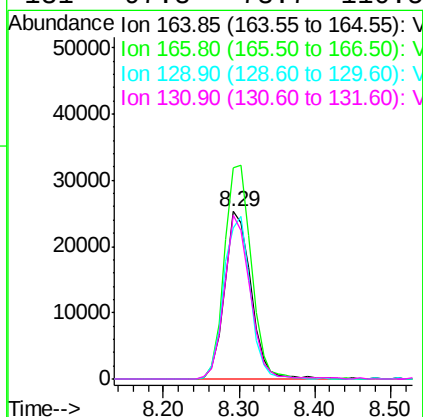
Manual Integrations
APPROVED

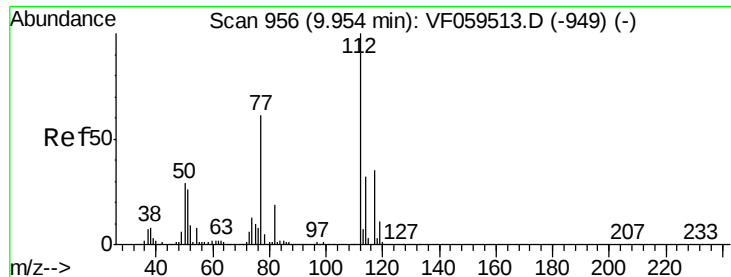
apatel
7/19/2018 3:17:19 PM



#64
Tetrachloroethene
Concen: 24.31 ug/l
RT: 8.29 min Scan# 787
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	61087		
166	126.4	102.3	153.5	
129	90.2	72.4	108.6	
131	97.8	73.7	110.5	





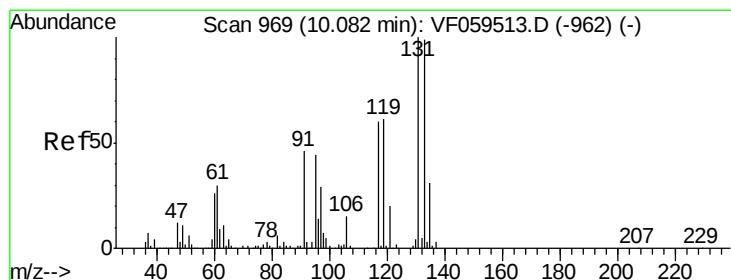
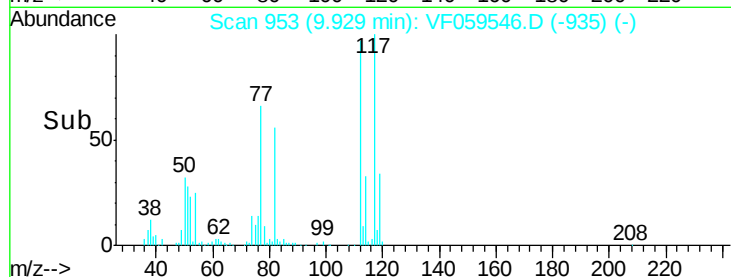
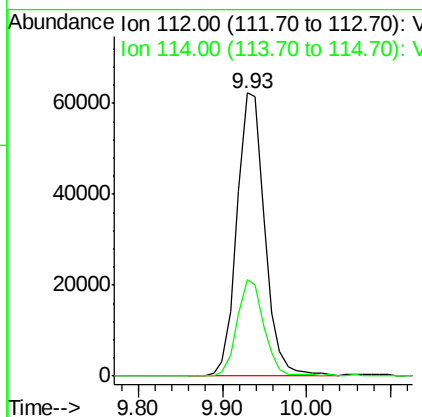
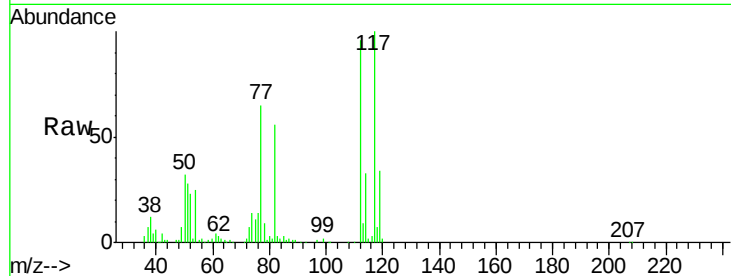
#65
Chlorobenzene
Concen: 22.69 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.9	25.4	38.2

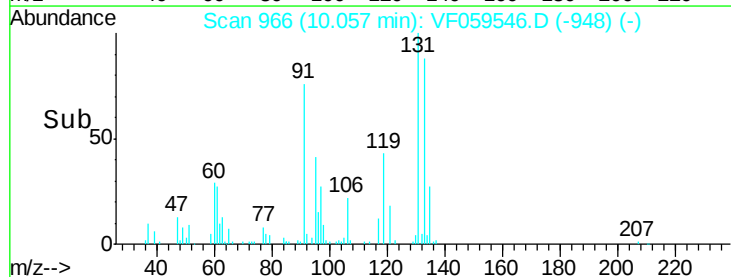
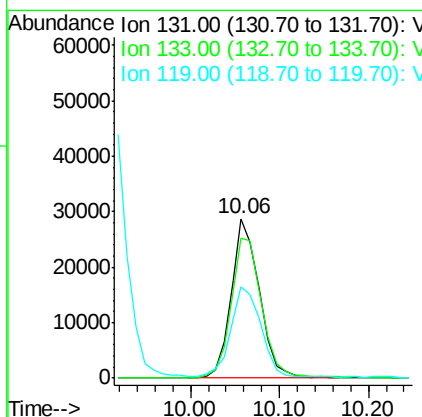
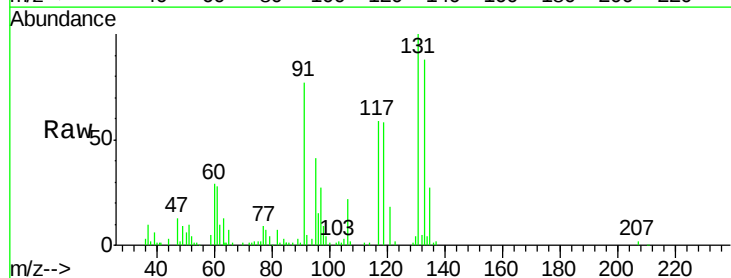
Manual Integrations
APPROVED

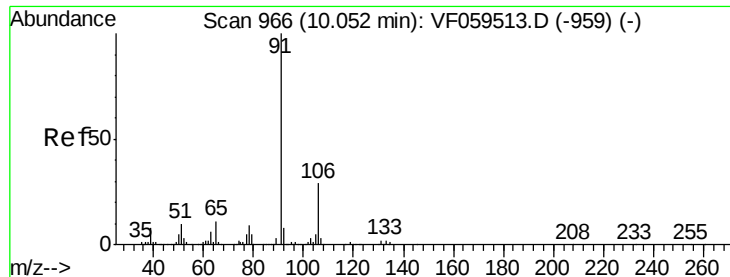
apatel
7/19/2018 3:17:19 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.00 ug/l
RT: 10.06 min Scan# 966
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
131	100		
133	88.1	49.6	148.8
119	57.6	31.4	94.3





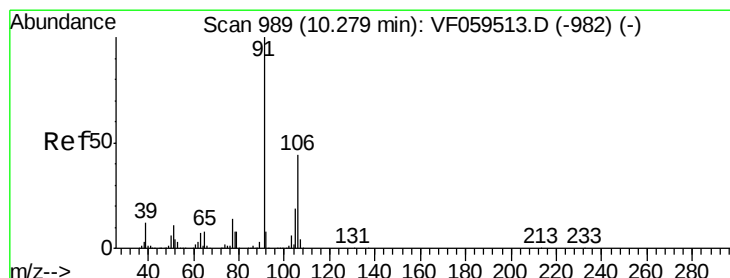
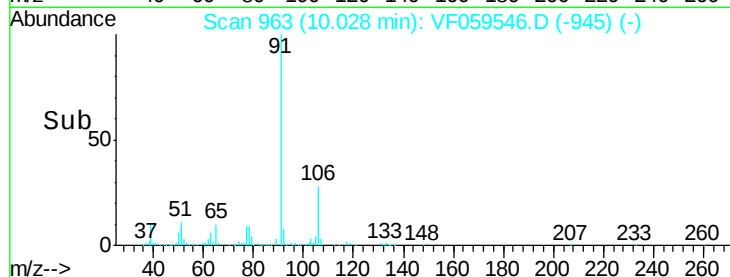
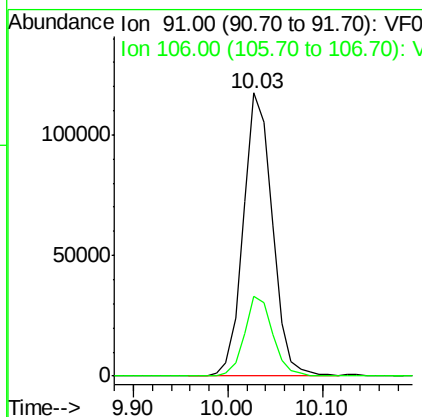
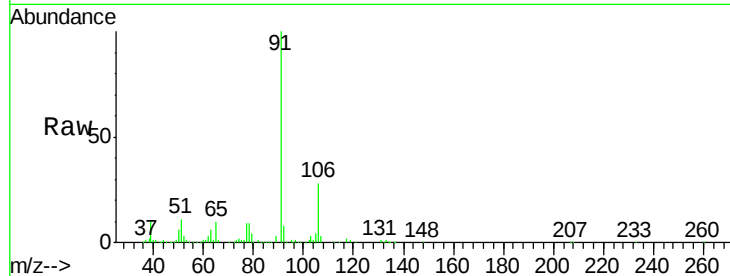
#67
Ethyl Benzene
Concen: 22.17 ug/l
RT: 10.03 min Scan# 963
Delta R.T. -0.02 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion: 91 Resp: 249791
Ion Ratio Lower Upper
91 100
106 28.4 23.4 35.2

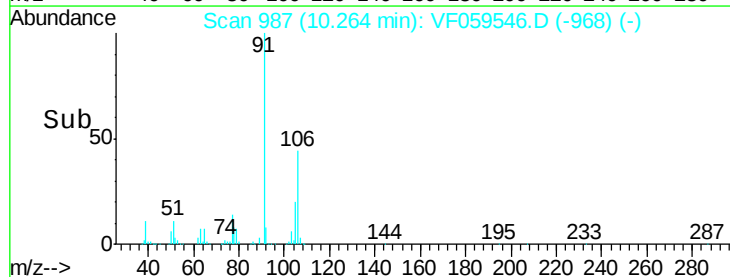
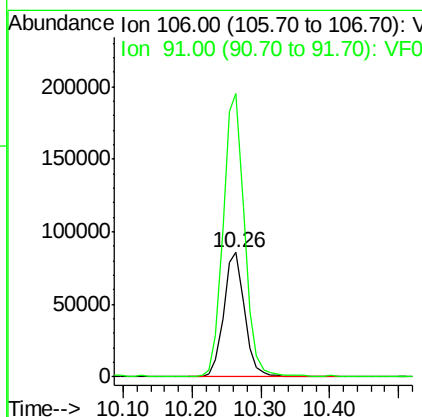
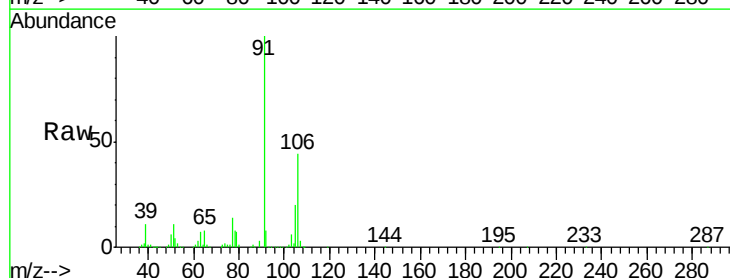
Manual Integrations
APPROVED

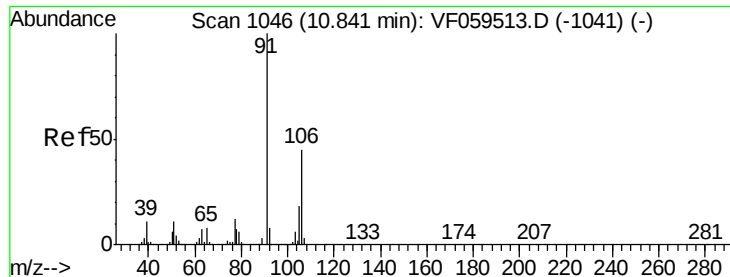
apatel
7/19/2018 3:17:19 PM



#68
m/p-Xylenes
Concen: 45.51 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion: 106 Resp: 180935
Ion Ratio Lower Upper
106 100
91 227.6 181.0 271.4





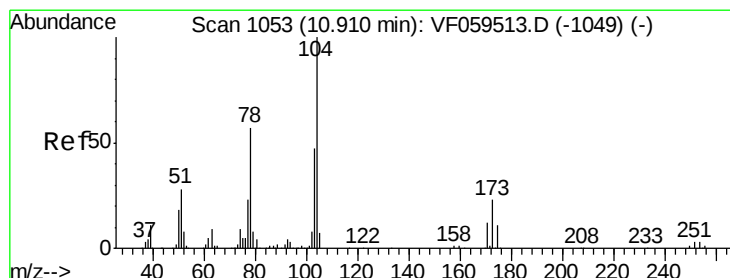
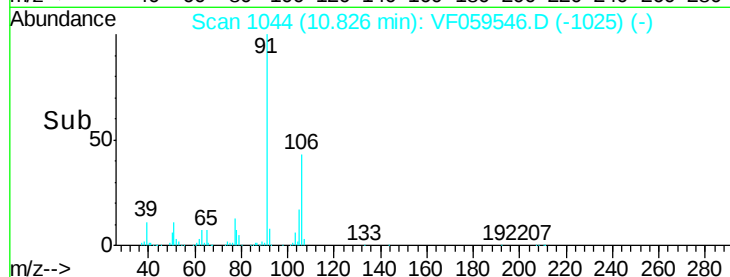
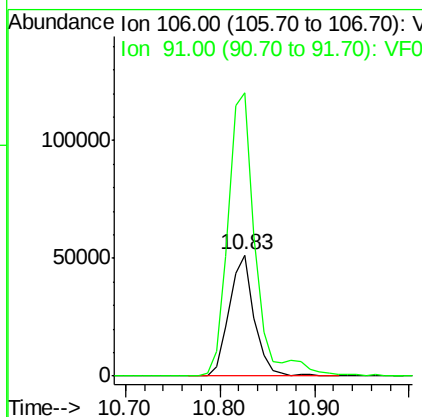
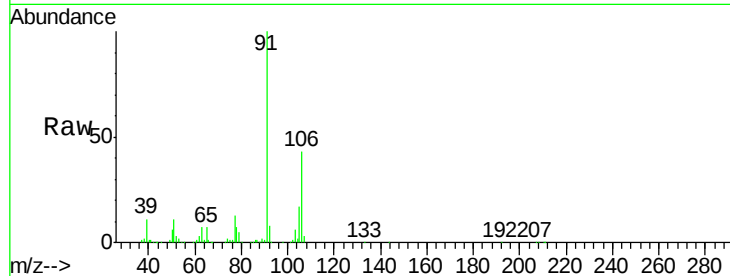
#69
o-Xylene
Concen: 22.31 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion:106 Resp: 94434
Ion Ratio Lower Upper
106 100
91 233.5 112.3 336.9

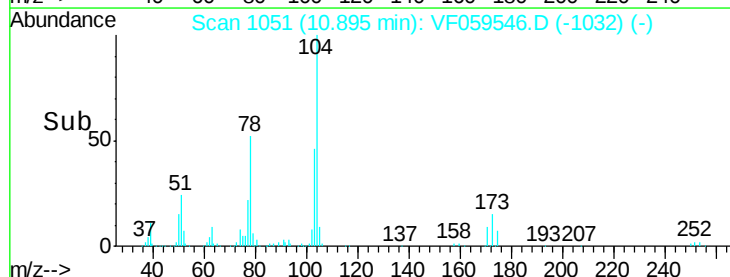
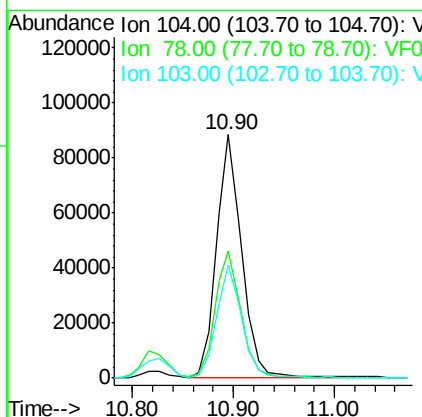
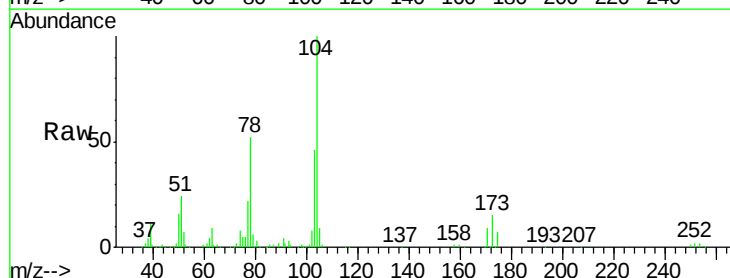
Manual Integrations
APPROVED

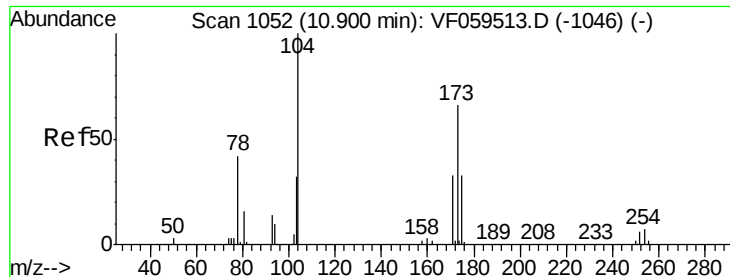
apatel
7/19/2018 3:17:19 PM



#70
Styrene
Concen: 23.53 ug/l
RT: 10.90 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion:104 Resp: 153128
Ion Ratio Lower Upper
104 100
78 52.2 45.7 68.5
103 46.5 38.1 57.1





#71

Bromoform

Concen: 21.42 ug/l

RT: 10.89 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion:173 Resp: 42888

Ion Ratio Lower Upper

173 100

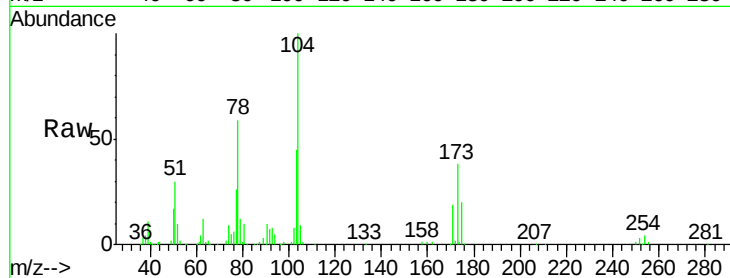
175 51.6 25.3 75.8

254 0.0 0.0 0.0

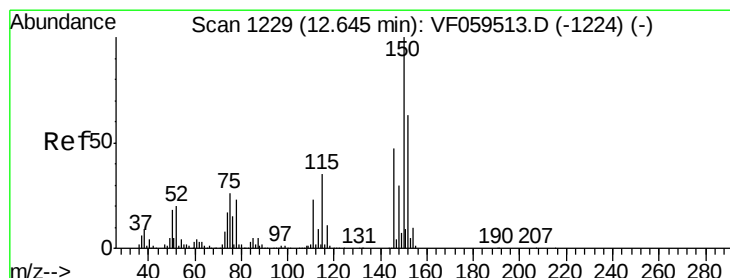
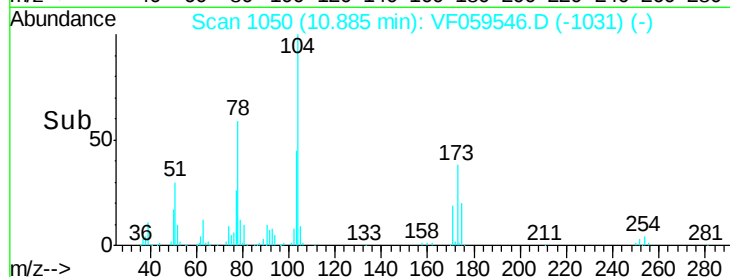
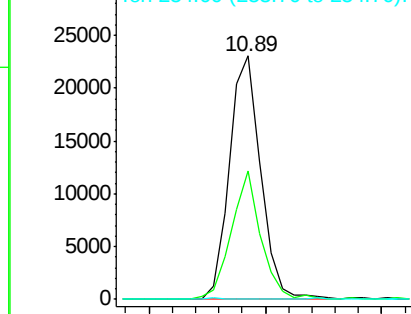
Manual Integrations
APPROVED

apatel

7/19/2018 3:17:19 PM



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

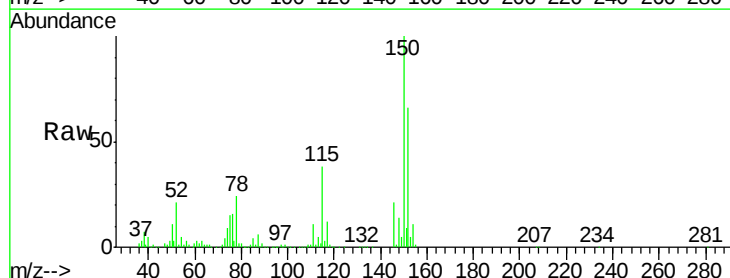
Tgt Ion:152 Resp: 223154

Ion Ratio Lower Upper

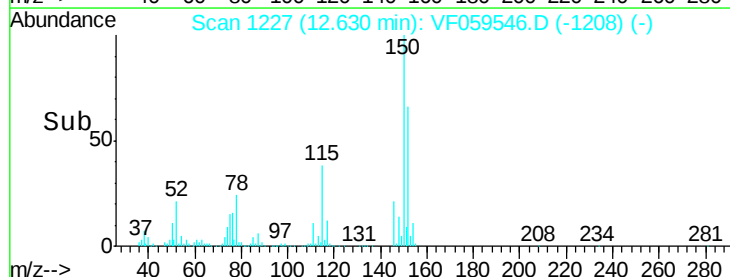
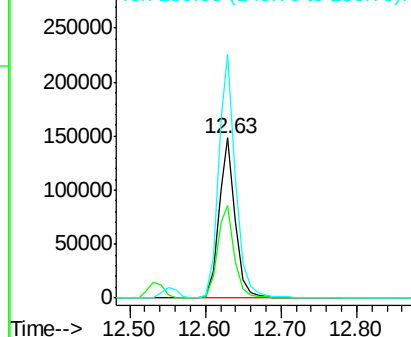
152 100

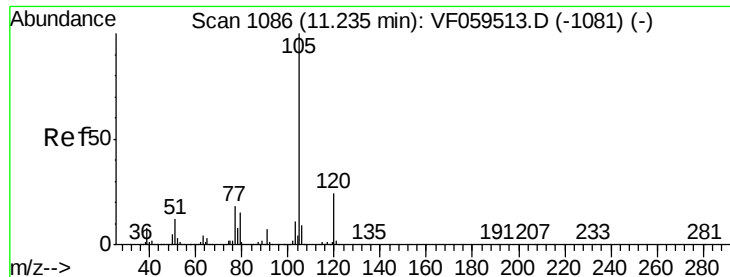
115 57.5 27.8 83.3

150 152.0 0.0 318.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.20 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion:105 Resp: 298502

Ion Ratio Lower Upper

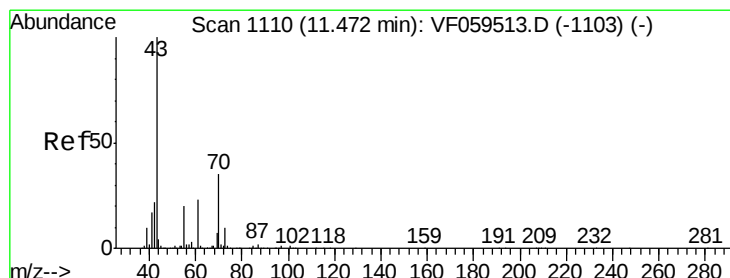
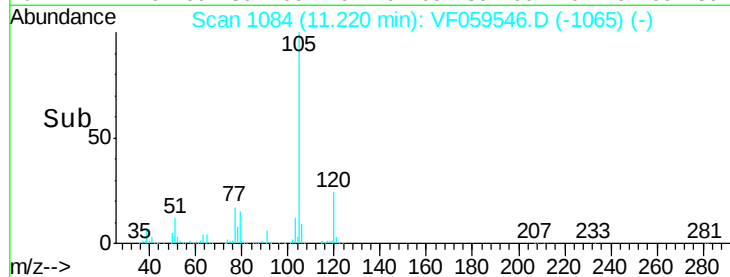
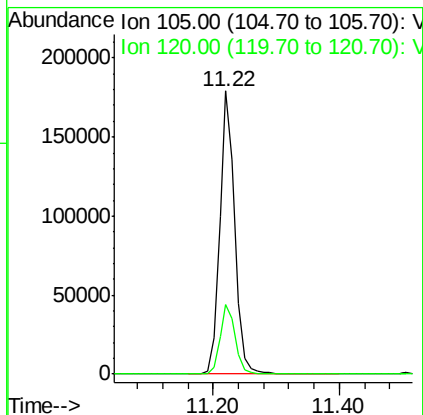
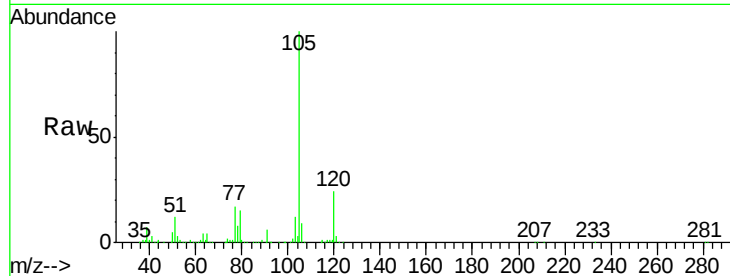
105 100

120 24.4 12.0 36.0

Manual Integrations
APPROVED

apatel

7/19/2018 3:17:19 PM



#74

N-ethyl acetate

Concen: 17.39 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion: 43 Resp: 78408

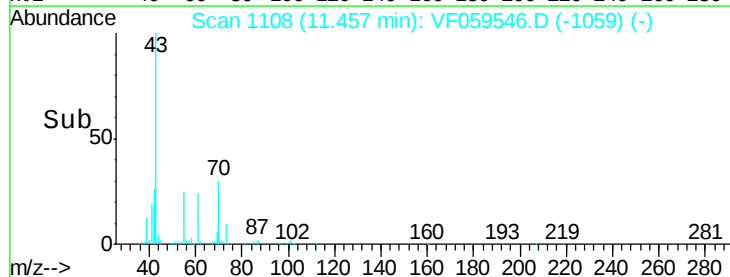
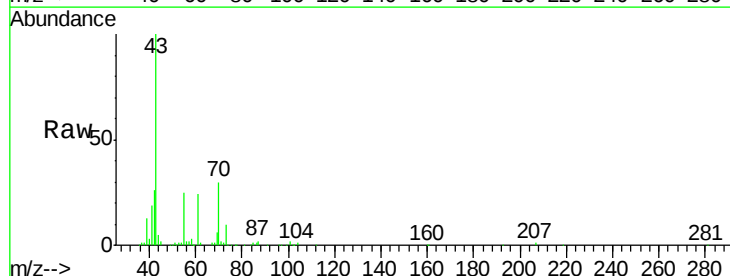
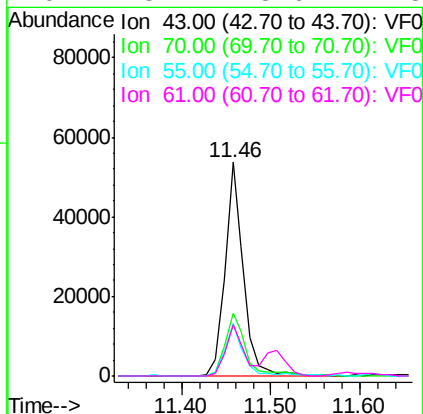
Ion Ratio Lower Upper

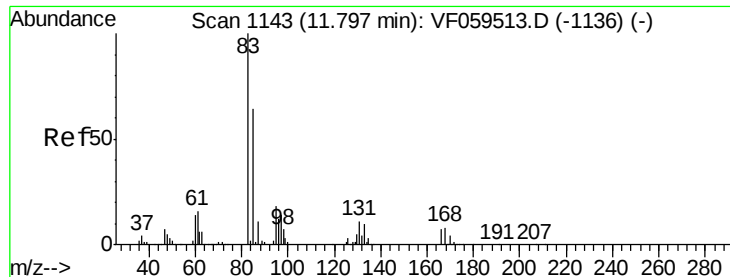
43 100

70 29.5 27.9 41.9

55 24.8 16.2 24.2#

61 23.7 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 21.06 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

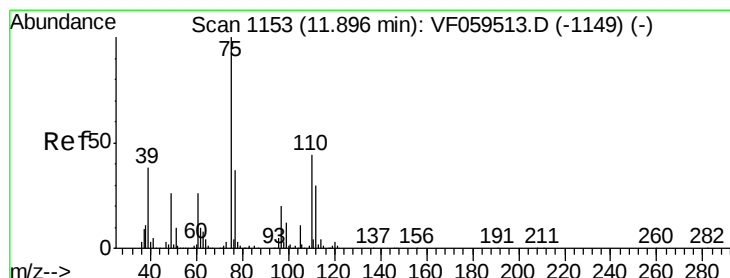
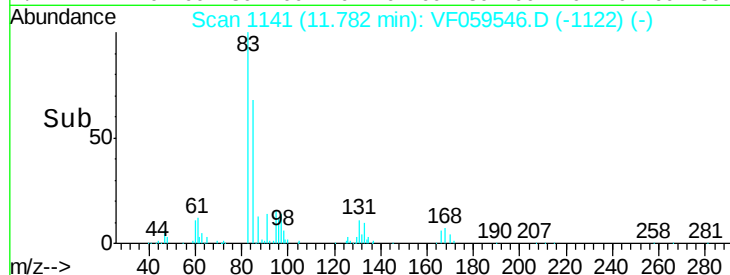
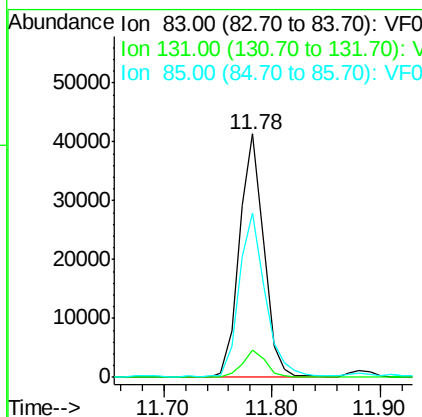
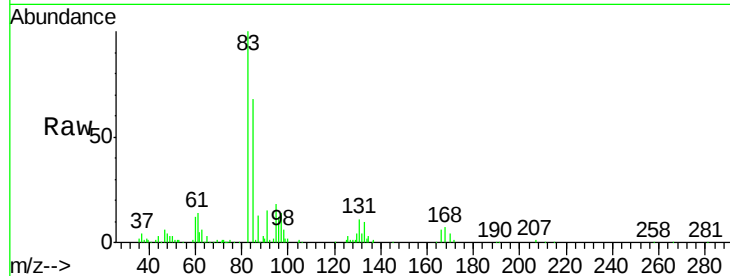
ClientSampleId :

VF0719SBS01

Tot Ion:	83	Resp:	64692
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.7	17.1
85	67.7	31.9	95.9

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#76

1,2,3-Trichloropropane

Concen: 21.28 ug/l

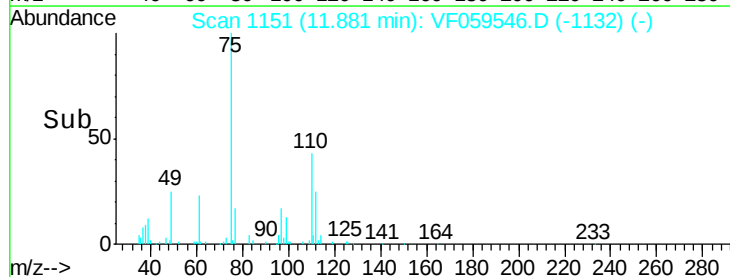
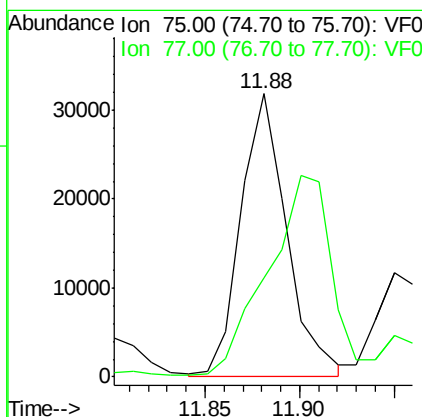
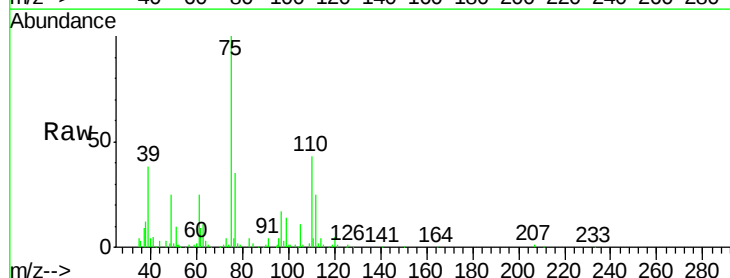
RT: 11.88 min Scan# 1151

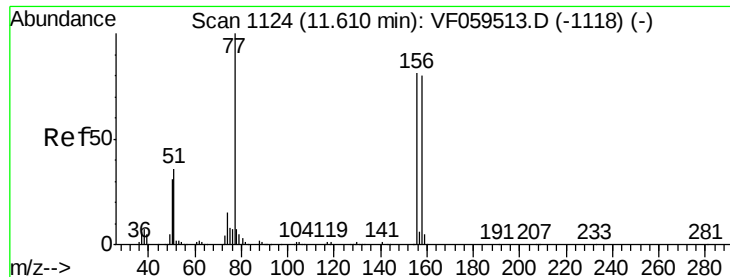
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	75	Resp:	53368
Ion Ratio	Lower	Upper	
75	100		
77	34.8	18.7	56.1





#77

Bromobenzene

Concen: 20.27 ug/l

RT: 11.59 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

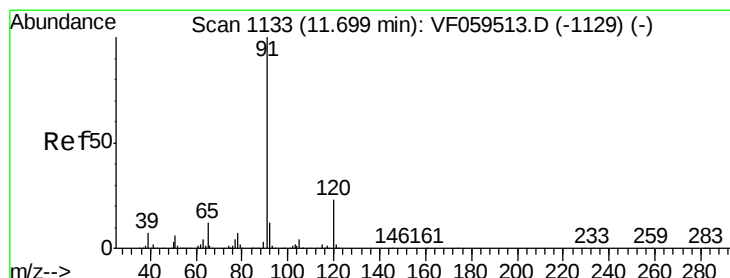
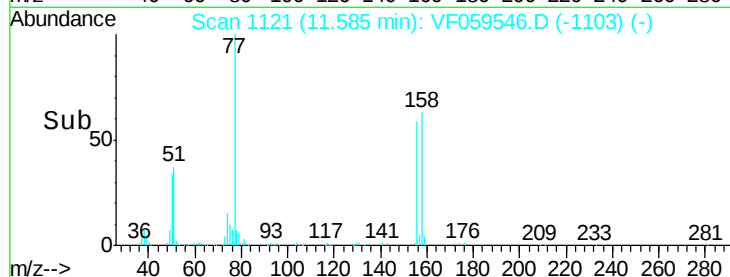
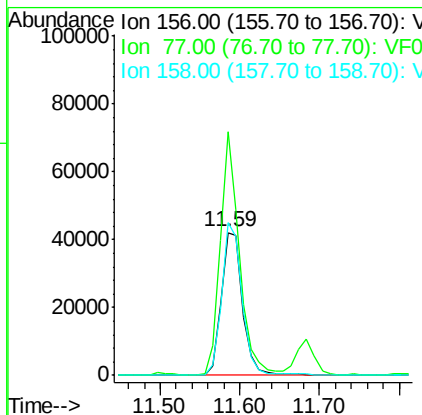
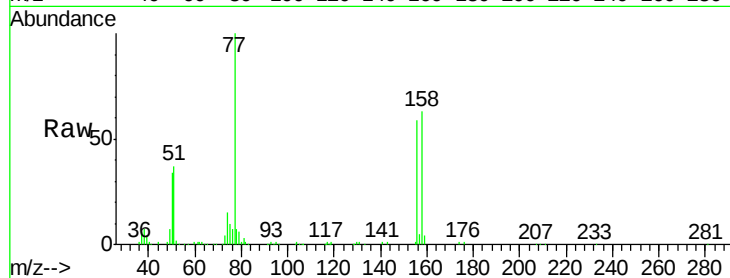
ClientSampleId :

VF0719SBS01

Tot Ion:	156	Resp:	80020
Ion Ratio	Lower	Upper	
156	100		
77	170.6	62.0	186.0
158	107.3	49.8	149.3

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#78

n-propylbenzene

Concen: 21.88 ug/l

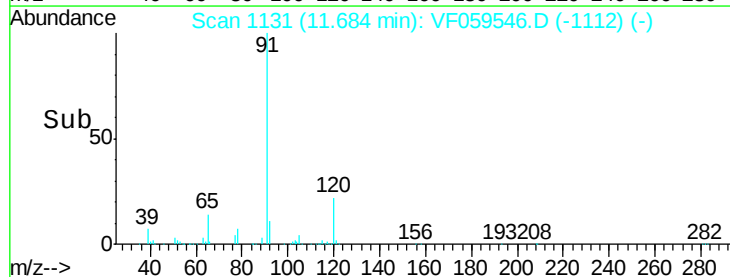
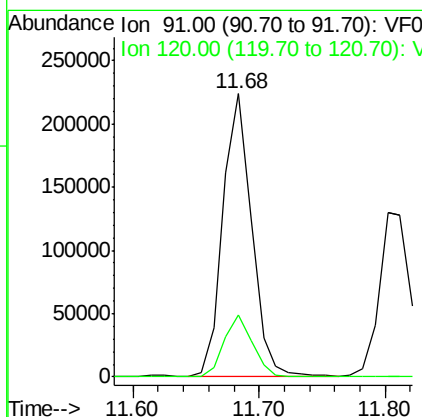
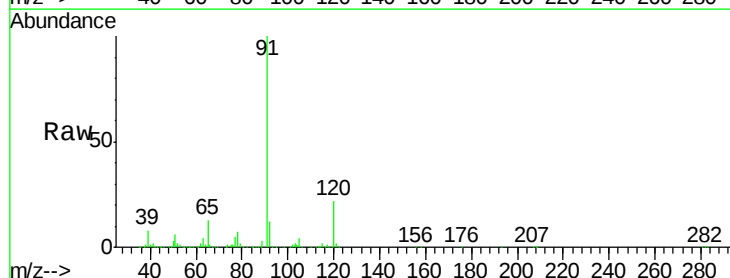
RT: 11.68 min Scan# 1131

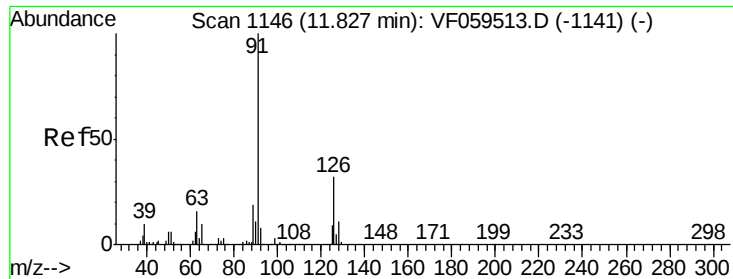
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	91	Resp:	353479
Ion Ratio	Lower	Upper	
91	100		
120	21.9	11.3	33.9





#79

2-Chlorotoluene

Concen: 22.23 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

ClientSampleId :

VF0719SBS01

Tot Ion: 91 Resp: 221130

Ion Ratio Lower Upper

91 100

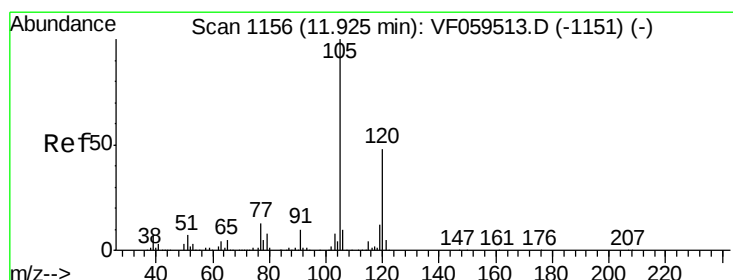
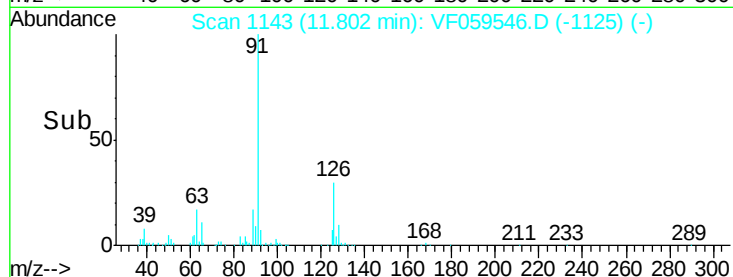
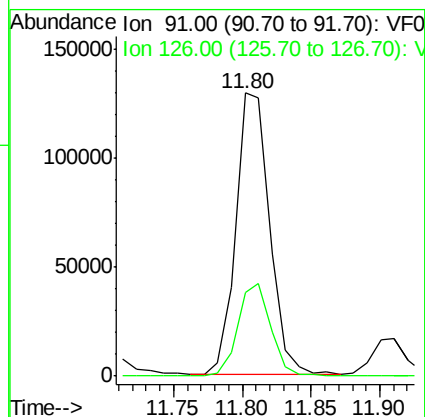
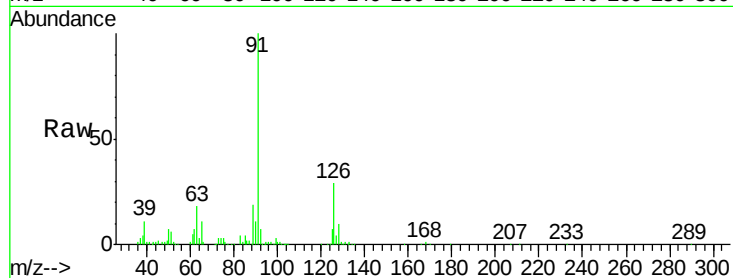
126 29.4 15.7 47.1

Manual Integrations

APPROVED

apatel

7/19/2018 3:17:19 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.47 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF059546.D

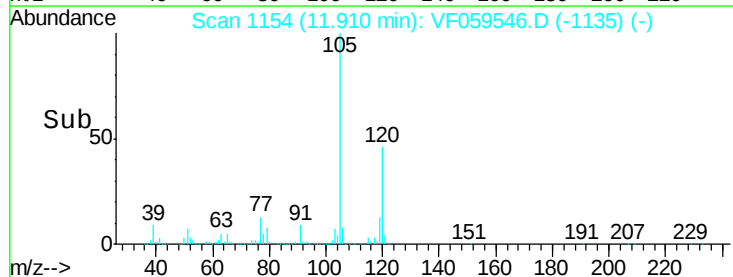
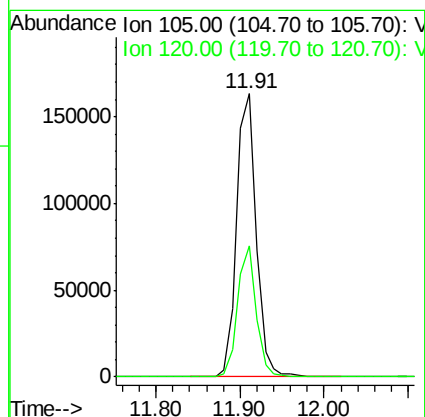
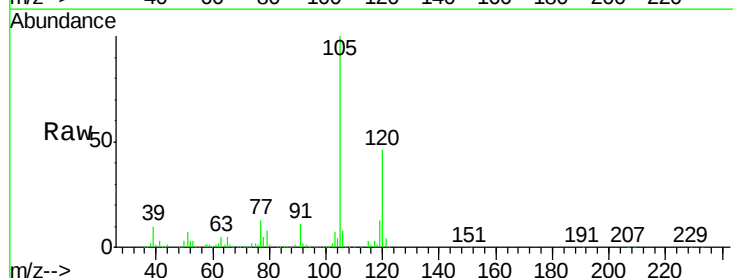
Acq: 19 Jul 2018 8:13

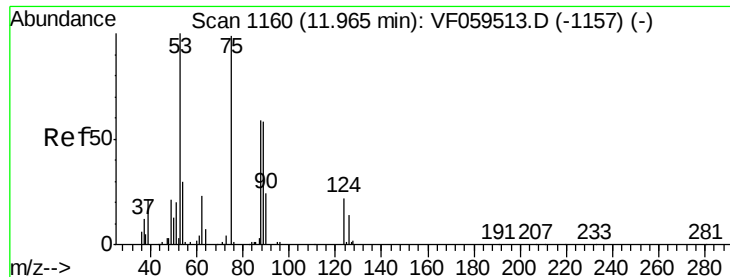
Tgt Ion: 105 Resp: 265073

Ion Ratio Lower Upper

105 100

120 46.4 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 17.75 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Instrument :

MSVOA_F

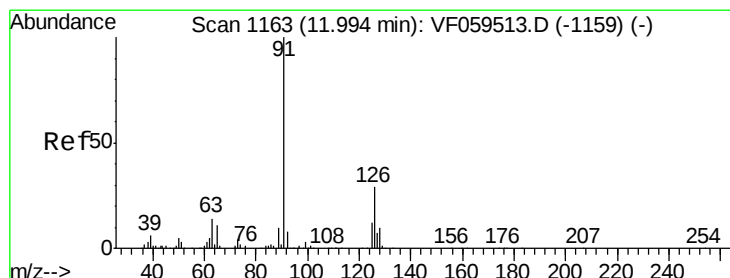
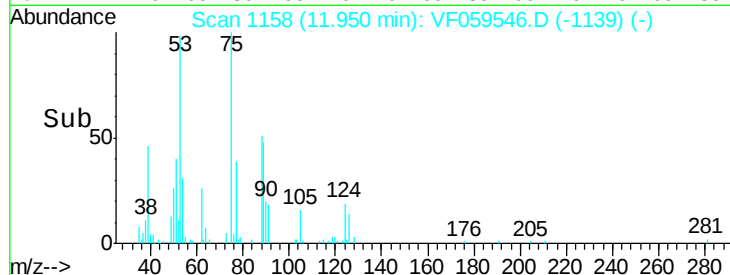
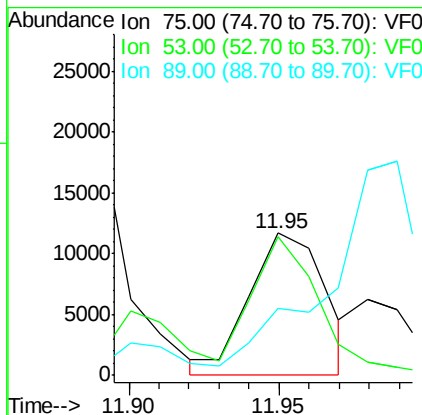
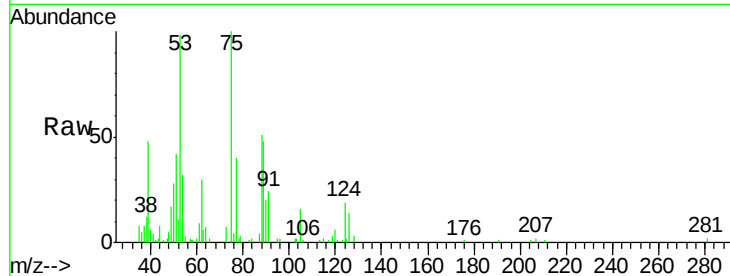
ClientSampleId :

VF0719SBS01

Tot Ion:	75	Resp:	20339
Ion Ratio	Lower	Upper	
75	100		
53	97.9	84.6	127.0
89	47.5	48.2	72.4#

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#82

4-Chlorotoluene

Concen: 20.55 ug/l

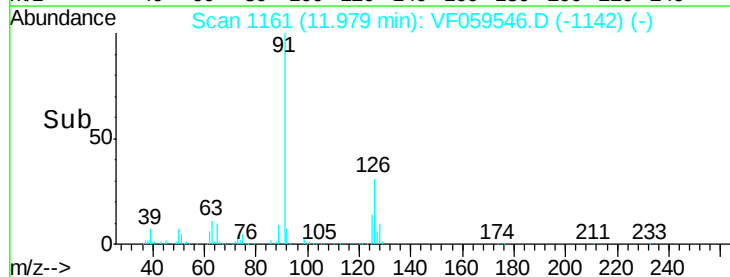
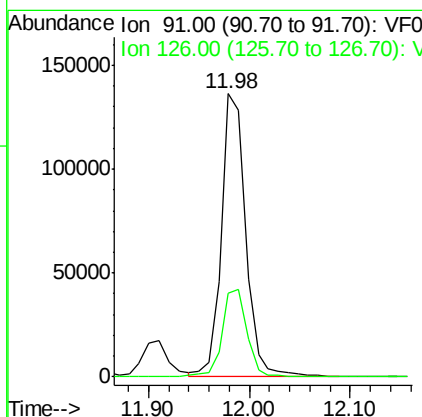
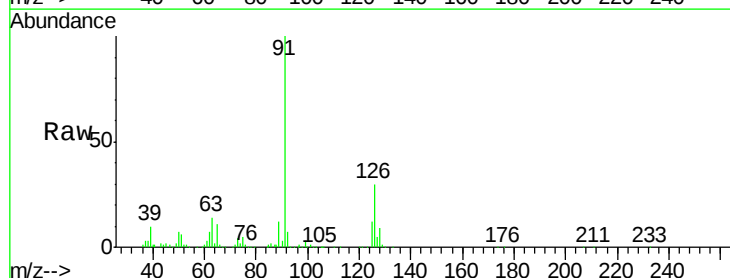
RT: 11.98 min Scan# 1161

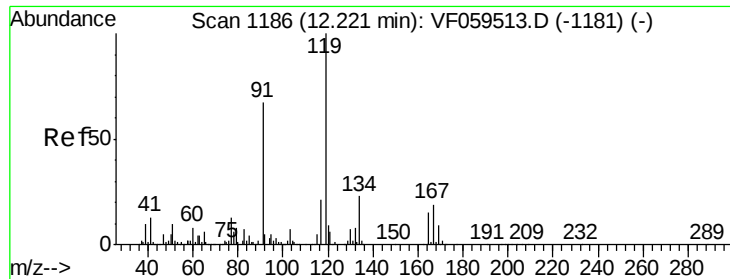
Delta R.T. -0.01 min

Lab File: VF059546.D

Acq: 19 Jul 2018 8:13

Tgt Ion:	91	Resp:	229053
Ion Ratio	Lower	Upper	
91	100		
126	29.7	14.4	43.4





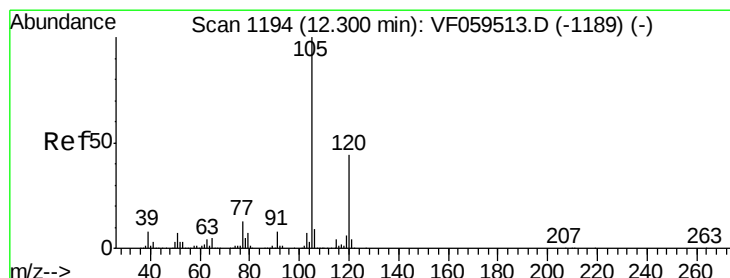
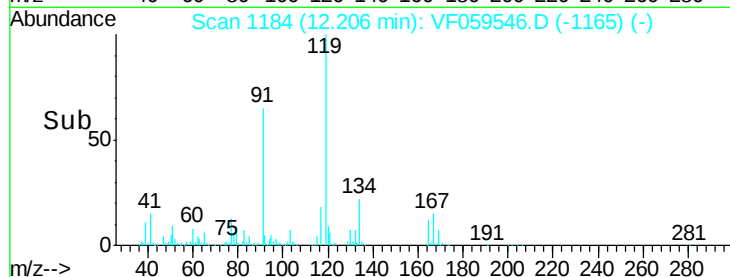
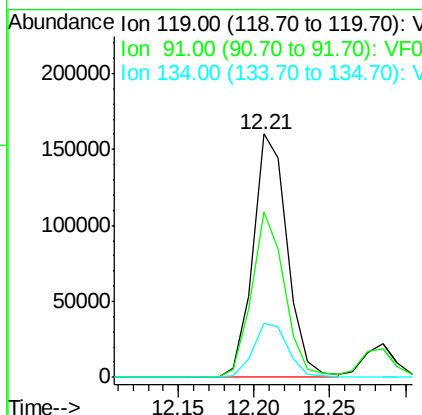
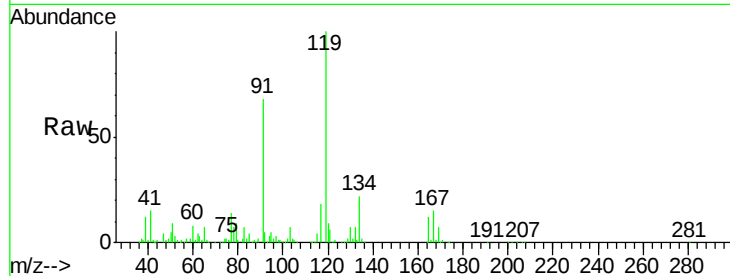
#83
 tert-Butylbenzene
 Concen: 22.46 ug/l
 RT: 12.21 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	254398		
91	67.9	33.5	100.5	
134	22.4	11.3	33.8	

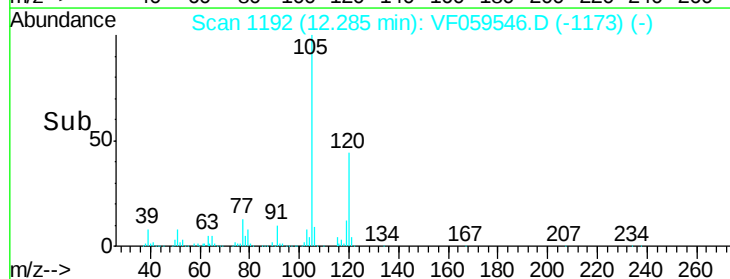
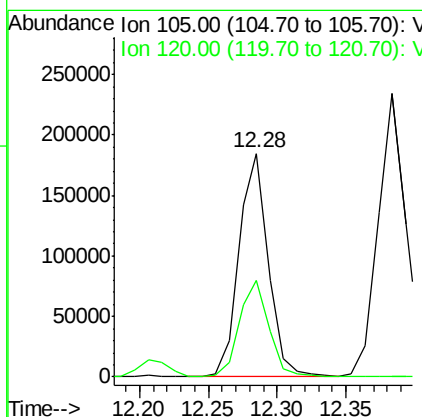
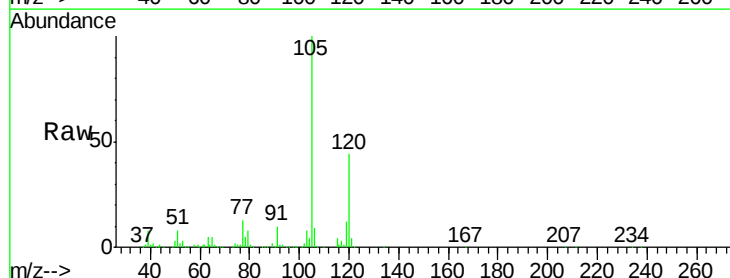
Manual Integrations
 APPROVED

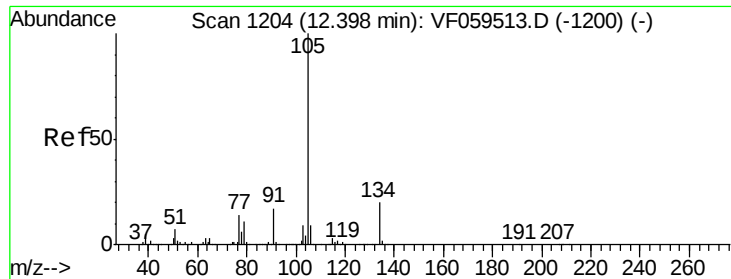
apatel
 7/19/2018 3:17:19 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.56 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	273890		
120	43.5	22.5	67.5	





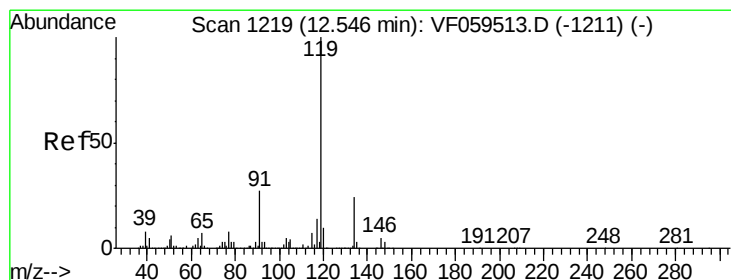
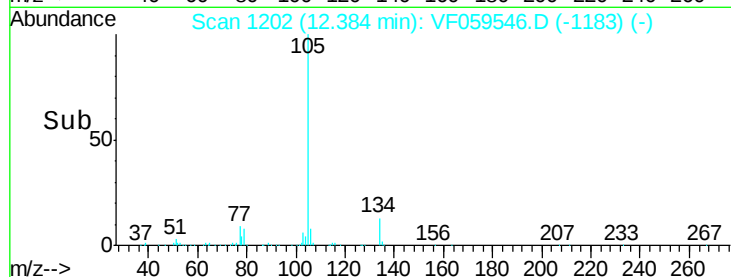
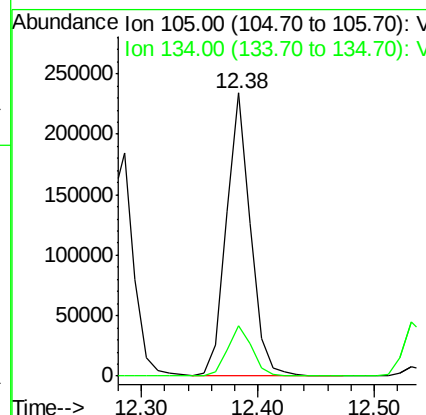
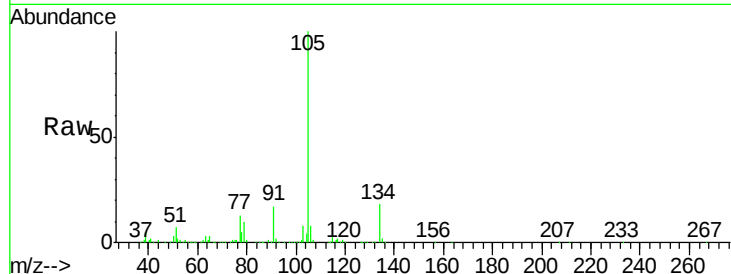
#85
 sec-Butylbenzene
 Concen: 23.31 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0719SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.7	10.1	30.1

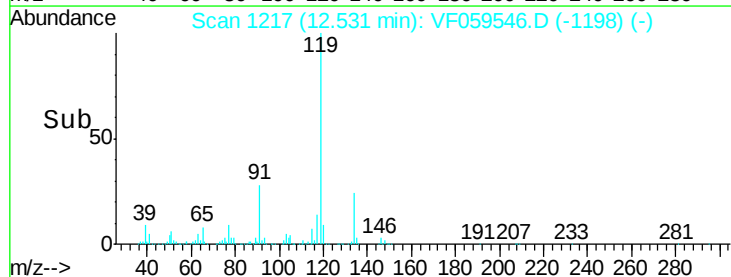
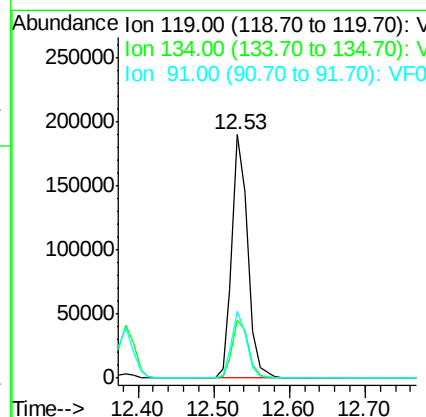
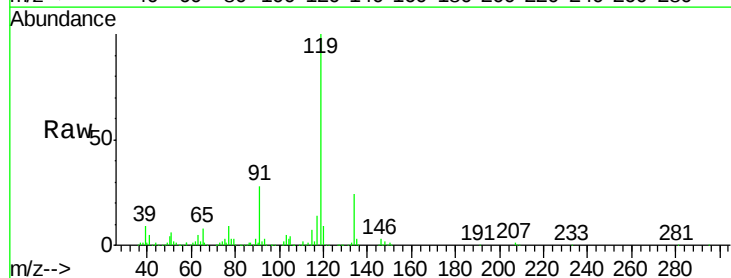
Manual Integrations
 APPROVED

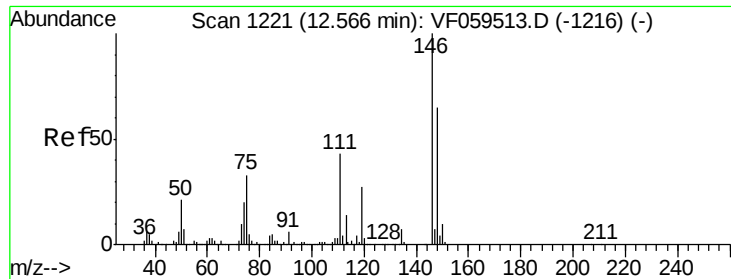
apatel
 7/19/2018 3:17:19 PM



#86
 p-Isopropyltoluene
 Concen: 21.94 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.6	12.0	36.0
91	27.8	13.5	40.4





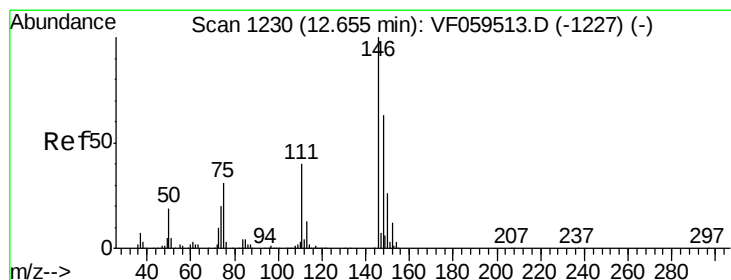
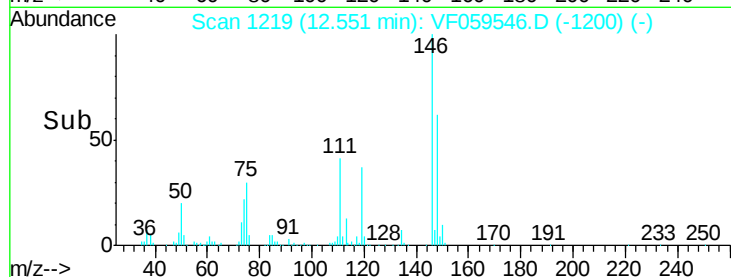
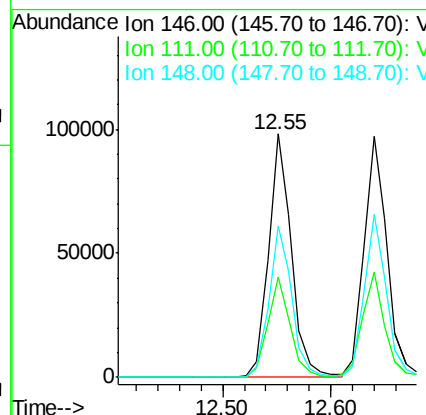
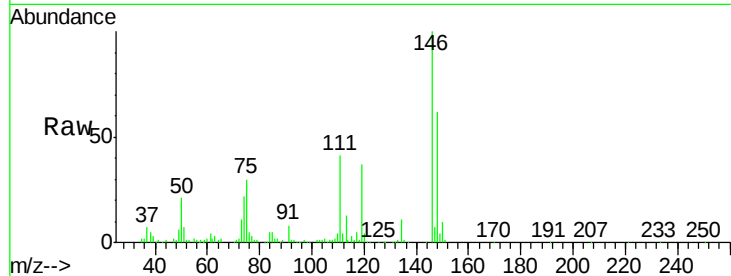
#87
 1,3-Dichlorobenzene
 Concen: 21.54 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.4	64.3
148	62.1	32.7	98.1

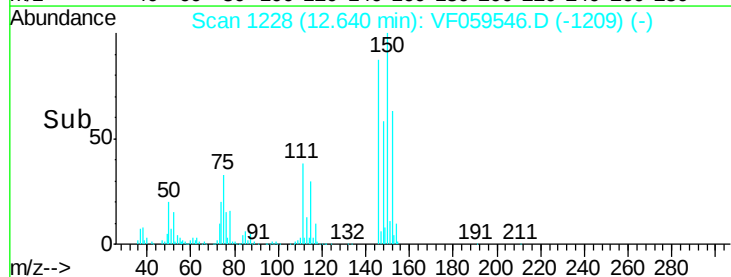
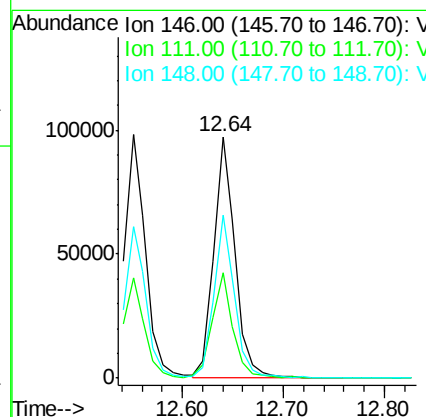
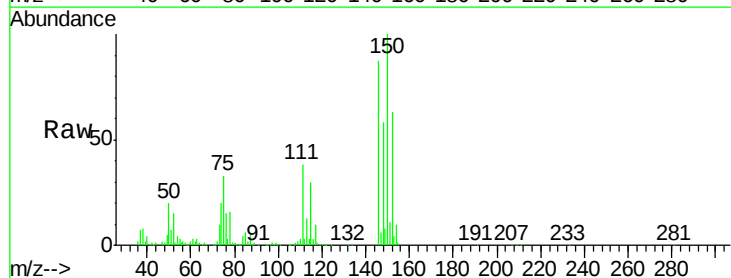
Manual Integrations
 APPROVED

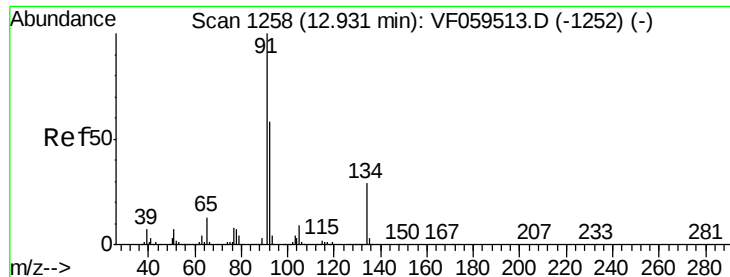
apatel
 7/19/2018 3:17:19 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.51 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.0	59.9
148	67.4	31.5	94.5





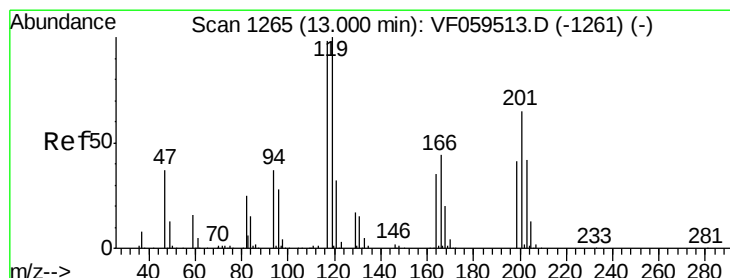
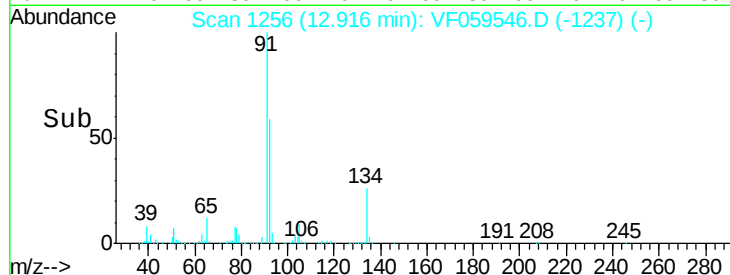
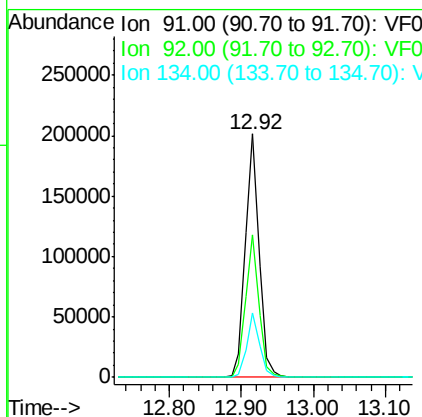
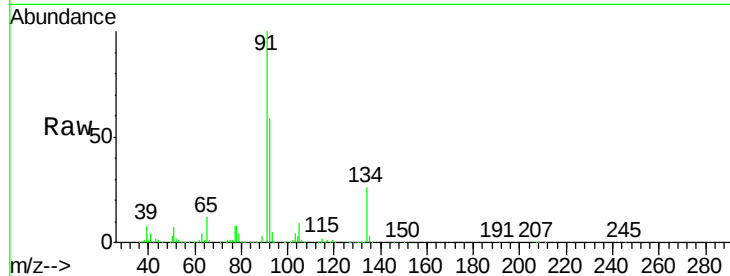
#89
n-Butylbenzene
Concen: 23.23 ug/l
RT: 12.92 min Scan# 1256
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.1	87.3
134	26.3	14.3	42.9

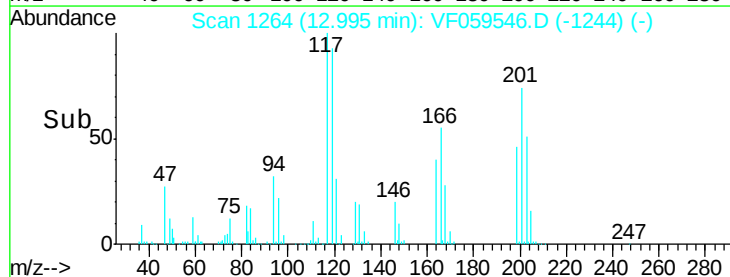
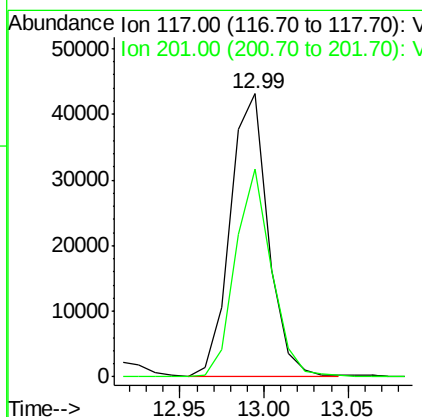
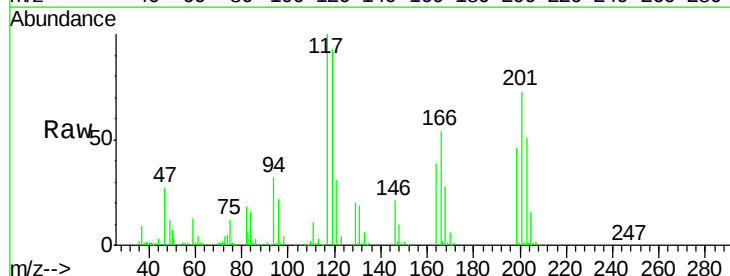
Manual Integrations
APPROVED

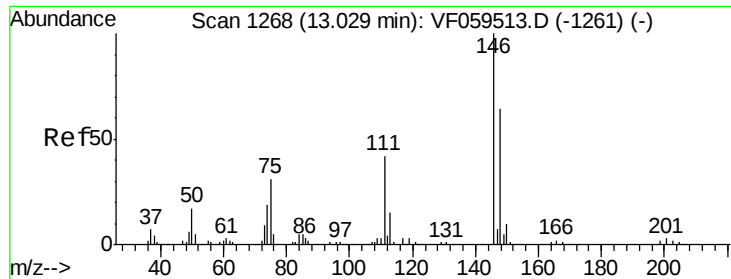
apatel
7/19/2018 3:17:19 PM



#90
Hexachloroethane
Concen: 23.66 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	73.3	32.6	98.0





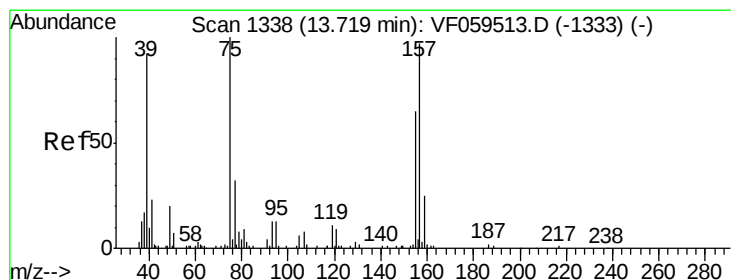
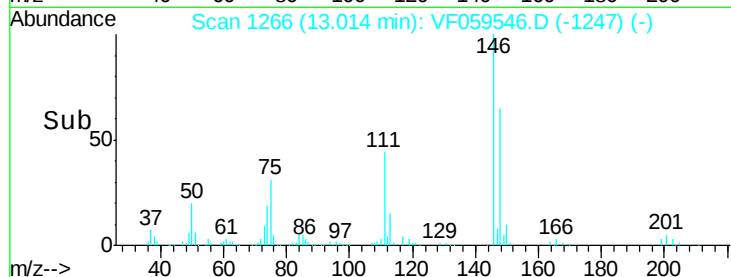
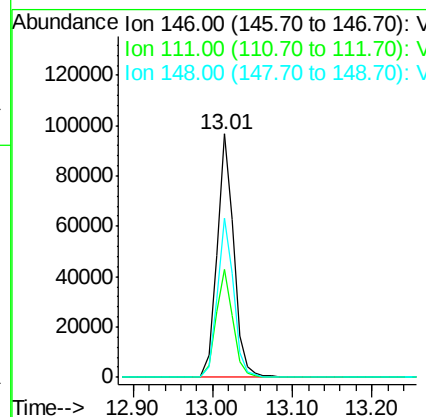
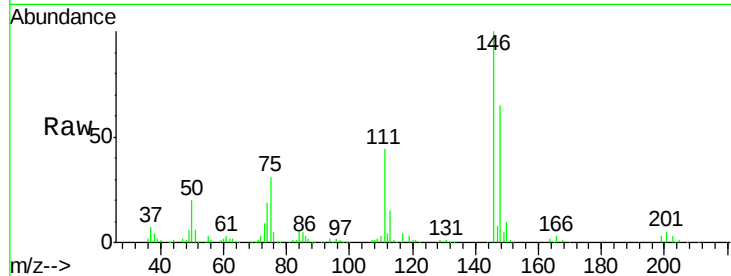
#91
 1,2-Dichlorobenzene
 Concen: 22.13 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.1	63.1
148	65.2	32.3	96.8

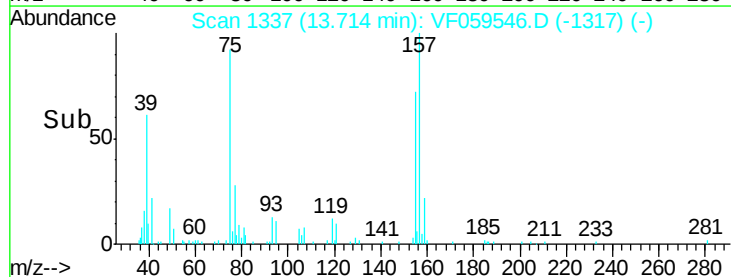
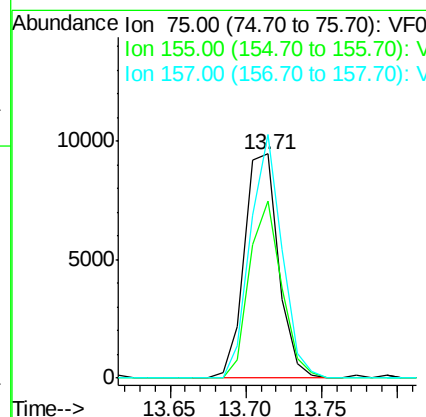
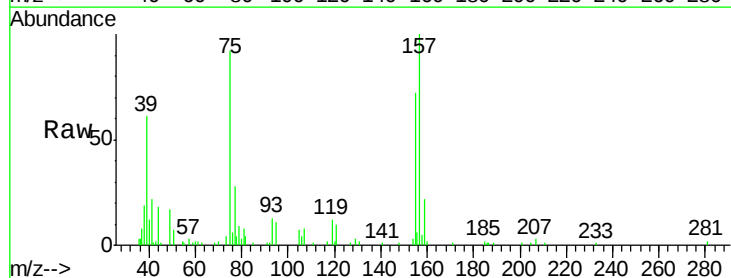
Manual Integrations
 APPROVED

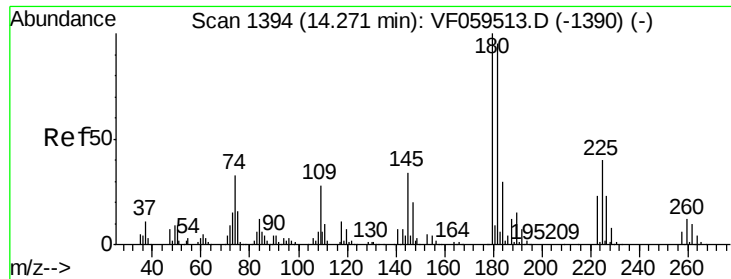
apatel
 7/19/2018 3:17:19 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.31 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.8	32.8	98.3
157	108.7	48.5	145.5





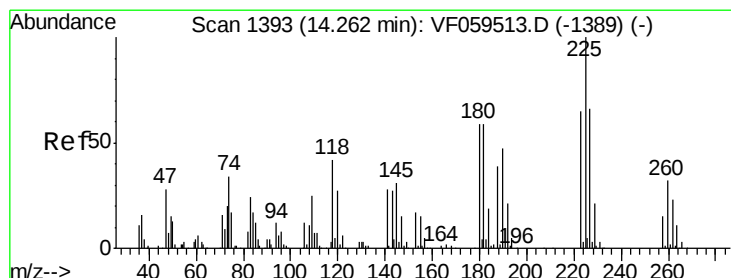
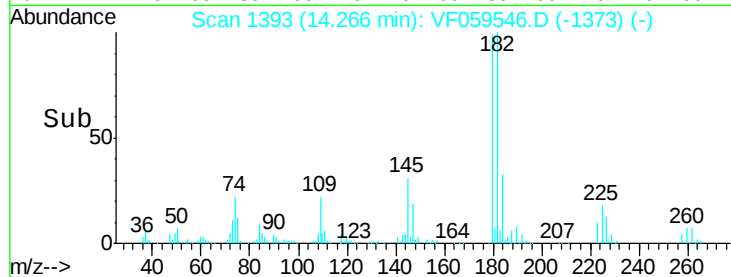
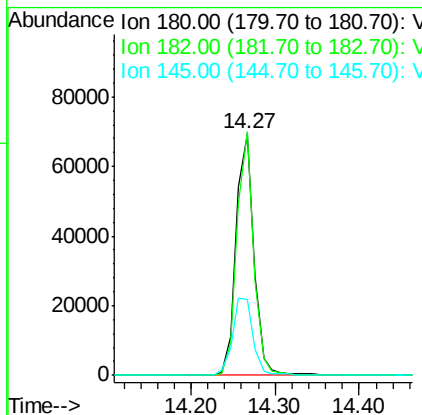
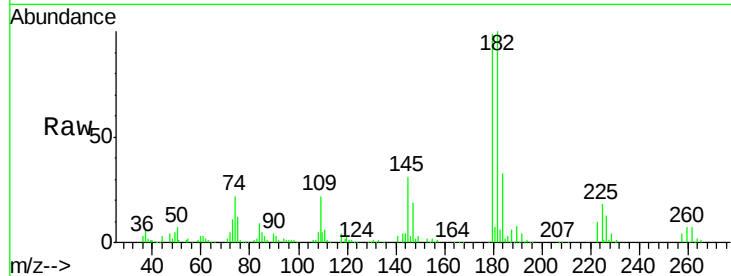
#93
 1,2,4-Trichlorobenzene
 Concen: 26.01 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0719SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	101.0	47.5	142.5	
145	31.7	17.3	51.7	

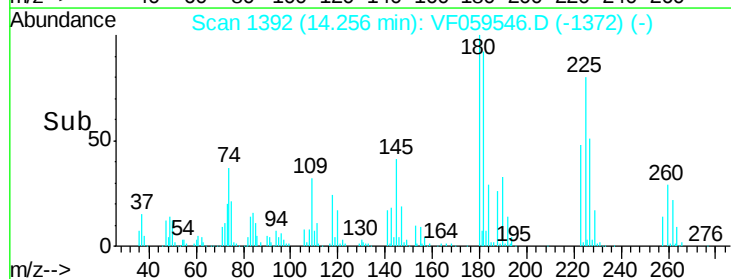
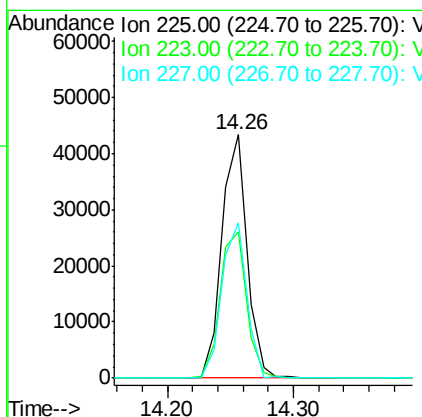
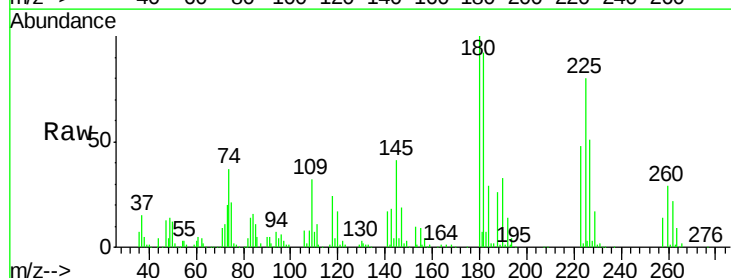
Manual Integrations
 APPROVED

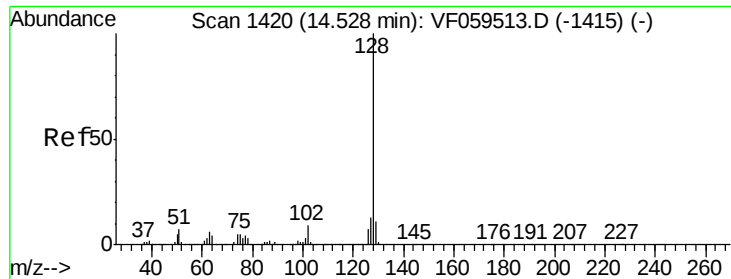
apatel
 7/19/2018 3:17:19 PM



#94
 Hexachlorobutadiene
 Concen: 29.69 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059546.D
 Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	60.2	32.3	96.8	
227	64.0	33.2	99.6	





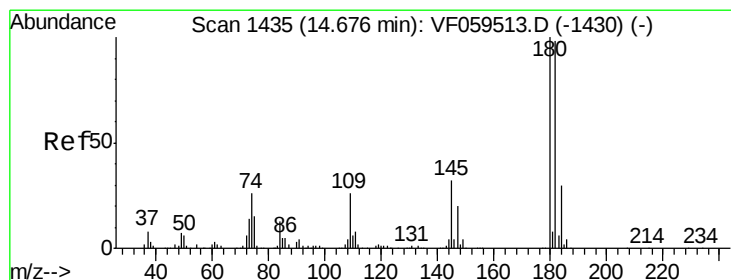
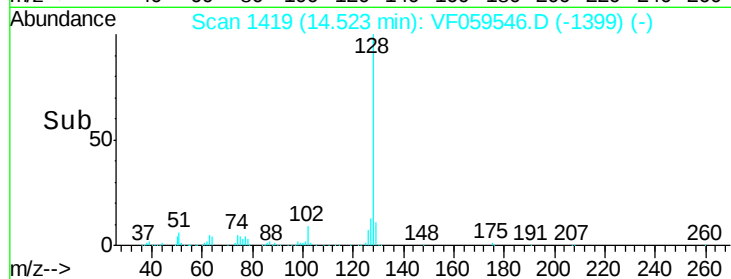
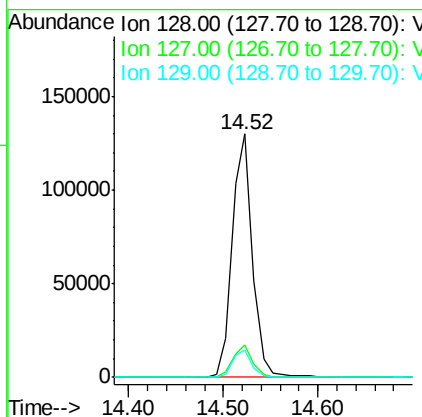
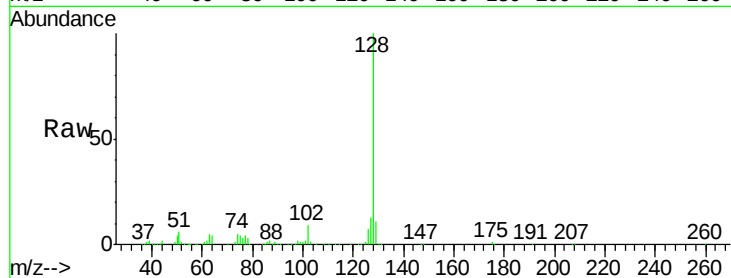
#95
Naphthalene
Concen: 23.45 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Instrument :
MSVOA_F
ClientSampleId :
VF0719SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	191678		
127	13.2	10.2	15.2	
129	11.2	9.0	13.4	

Manual Integrations
APPROVED

apatel
7/19/2018 3:17:19 PM



#96
1,2,3-Trichlorobenzene
Concen: 27.42 ug/l
RT: 14.66 min Scan# 1433
Delta R.T. -0.01 min
Lab File: VF059546.D
Acq: 19 Jul 2018 8:13

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	97477		
182	102.5	48.8	146.4	
145	32.8	16.2	48.6	

