

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042619\
 Data File : VF062307.D
 Acq On : 26 Apr 2019 16:03
 Operator : FY/SY
 Sample : VF0426SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/29/2019 3:59:49 PM

Quant Time: Apr 27 01:06:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.09	168	408553	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.81	114	553488	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.94	117	406816	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	241425	50.00	ug/l	0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.06	65	176194	53.24	ug/l	0.02
Spiked Amount	50.000		Recovery	=	106.48%	
35) Dibromofluoromethane	4.34	113	208779	50.87	ug/l	0.02
Spiked Amount	50.000		Recovery	=	101.74%	
50) Toluene-d8	7.75	98	471217	47.01	ug/l	0.02
Spiked Amount	50.000		Recovery	=	94.02%	
62) 4-Bromofluorobenzene	11.52	95	190373	46.08	ug/l	0.01
Spiked Amount	50.000		Recovery	=	92.16%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.01	85	111389	22.942	ug/l	94
3) Chloromethane	1.17	50	77505	18.949	ug/l	98
4) Vinyl Chloride	1.20	62	75286	19.435	ug/l	99
5) Bromomethane	1.41	94	53307	20.264	ug/l	93
6) Chloroethane	1.45	64	33970	20.005	ug/l	89
7) Trichlorofluoromethane	1.58	101	132699	21.558	ug/l	84
8) Diethyl Ether	1.72	74	22723	20.377	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.92	101	81633	21.132	ug/l	96
10) Methyl Iodide	2.00	142	138618	20.529	ug/l	95
11) Tert butyl alcohol	2.73	59	20480	102.305	ug/l #	93
12) 1,1-Dichloroethene	1.88	96	72428	21.013	ug/l	94
13) Acrolein	2.12	56	16705	94.319	ug/l	97
14) Allyl chloride	2.22	41	77548	20.673	ug/l #	12
15) Acrylonitrile	3.11	53	52425	94.553	ug/l	97
16) Acetone	2.37	43	84671	114.274	ug/l	97
17) Carbon Disulfide	1.94	76	171981	18.959	ug/l	99
18) Methyl Acetate	2.48	43	30856	20.638	ug/l	95
19) Methyl tert-butyl Ether	2.57	73	136908	20.835	ug/l	95
20) Methylene Chloride	2.35	84	70058	18.859	ug/l	97
21) trans-1,2-Dichloroethene	2.44	96	68981	20.251	ug/l	98
22) Diisopropyl ether	2.96	45	199525	19.758	ug/l	93
23) Vinyl Acetate	3.38	43	449196	100.312	ug/l	99
24) 1,1-Dichloroethane	3.03	63	124559	21.611	ug/l	99
25) 2-Butanone	4.56	43	111337	94.767	ug/l	99
26) 2,2-Dichloropropane	3.81	77	66204	22.119	ug/l	98
27) cis-1,2-Dichloroethene	3.68	96	84975	19.699	ug/l	98
28) Bromochloromethane	3.93	49	46377	19.094	ug/l #	98
29) Tetrahydrofuran	4.31	42	46967	90.981	ug/l	94
30) Chloroform	4.09	83	158503	21.900	ug/l	100
31) Cyclohexane	3.91	56	108615	19.805	ug/l	96
32) 1,1,1-Trichloroethane	4.33	97	131661	23.170	ug/l #	85
36) 1,1-Dichloropropene	4.51	75	107298	21.013	ug/l	98
37) Ethyl Acetate	4.34	43	46437	21.616	ug/l #	75
38) Carbon Tetrachloride	4.22	117	113130m	21.793	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042619\
 Data File : VF062307.D
 Acq On : 26 Apr 2019 16:03
 Operator : FY/SY
 Sample : VF0426SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/29/2019 3:59:49 PM

Quant Time: Apr 27 01:06:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.67	83	117844	19.769	ug/l	97
40) Benzene	4.86	78	258852	20.981	ug/l	97
41) Methacrylonitrile	4.98	41	23622	19.793	ug/l #	63
42) 1,2-Dichloroethane	5.16	62	93357	23.886	ug/l	96
43) Isopropyl Acetate	7.14	43	44779	20.216	ug/l #	97
44) Trichloroethene	5.72	130	86918	20.823	ug/l	92
45) 1,2-Dichloropropane	6.44	63	55565	19.976	ug/l	99
46) Dibromomethane	6.30	93	44092	21.952	ug/l	100
47) Bromodichloromethane	6.58	83	105176	22.274	ug/l #	91
48) Methyl methacrylate	6.91	41	30851	19.602	ug/l	94
49) 1,4-Dioxane	6.92	88	6903	380.890	ug/l	97
51) 4-Methyl-2-Pentanone	8.44	43	170880	100.954	ug/l	96
52) Toluene	7.81	92	143043	20.093	ug/l	99
53) t-1,3-Dichloropropene	8.46	75	74155	21.357	ug/l	97
54) cis-1,3-Dichloropropene	7.49	75	92232	20.735	ug/l	92
55) 1,1,2-Trichloroethane	8.66	97	42123	20.833	ug/l	93
56) Ethyl methacrylate	8.79	69	46386	20.883	ug/l	93
57) 1,3-Dichloropropane	9.03	76	65411	20.576	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.48	63	67684	100.139	ug/l	98
59) 2-Hexanone	9.65	43	118716	106.769	ug/l	97
60) Dibromochloromethane	8.89	129	66774	20.348	ug/l	97
61) 1,2-Dibromoethane	9.17	107	48299	20.640	ug/l	99
64) Tetrachloroethene	8.34	164	72199	21.218	ug/l	96
65) Chlorobenzene	9.96	112	157665	21.208	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.09	131	76709	21.907	ug/l	99
67) Ethyl Benzene	10.06	91	278639	21.559	ug/l	96
68) m/p-Xylenes	10.29	106	198625	41.279	ug/l	91
69) o-Xylene	10.84	106	113194	21.056	ug/l	98
70) Styrene	10.92	104	158052	20.338	ug/l	97
71) Bromoform	10.90	173	41580	21.095	ug/l #	94
73) Isopropylbenzene	11.24	105	344805	20.845	ug/l	98
74) N-amyl acetate	11.47	43	75968	19.933	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.79	83	51701	19.673	ug/l	99
76) 1,2,3-Trichloropropane	11.89	75	36577	19.617	ug/l #	100
77) Bromobenzene	11.60	156	82315	19.906	ug/l	98
78) n-propylbenzene	11.70	91	352350	20.244	ug/l	98
79) 2-Chlorotoluene	11.82	91	216134	20.616	ug/l	98
80) 1,3,5-Trimethylbenzene	11.92	105	293813	21.041	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.96	75	16167m	19.398	ug/l	
82) 4-Chlorotoluene	11.99	91	218181	21.032	ug/l	98
83) tert-Butylbenzene	12.22	119	311567	21.741	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	289143	21.379	ug/l	97
85) sec-Butylbenzene	12.39	105	489380	27.417	ug/l	98
86) p-Isopropyltoluene	12.54	119	349941	21.868	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	156749	21.426	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	146351	21.099	ug/l	98
89) n-Butylbenzene	12.92	91	320847	22.066	ug/l	95
90) Hexachloroethane	12.99	117	86139	21.474	ug/l	100
91) 1,2-Dichlorobenzene	13.02	146	147363	20.985	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	9996	18.855	ug/l	94

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF042619\
Data File : VF062307.D
Acq On : 26 Apr 2019 16:03
Operator : FY/SY
Sample : VF0426SBSD01
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBSD01

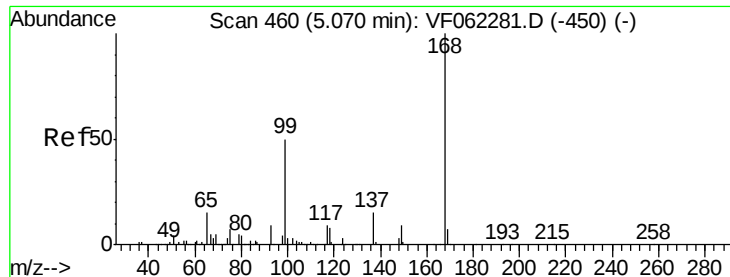
Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM

Quant Time: Apr 27 01:06:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 25 08:40:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	134908	21.868	ug/l	99
94) Hexachlorobutadiene	14.25	225	98684	22.242	ug/l	98
95) Naphthalene	14.52	128	192758	20.168	ug/l	100
96) 1,2,3-Trichlorobenzene	14.66	180	128923	22.096	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.09 min Scan# 463

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion:168 Resp: 408553

Ion Ratio Lower Upper

168 100

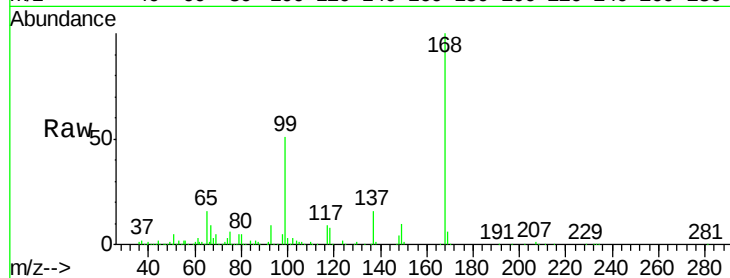
99 51.4 40.0 60.0

Manual Integrations

APPROVED

MMDadoda

4/29/2019 3:59:49 PM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.09

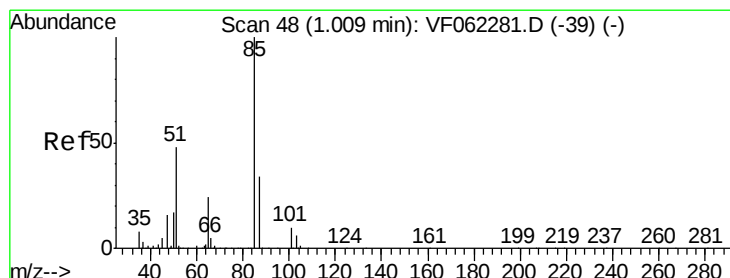
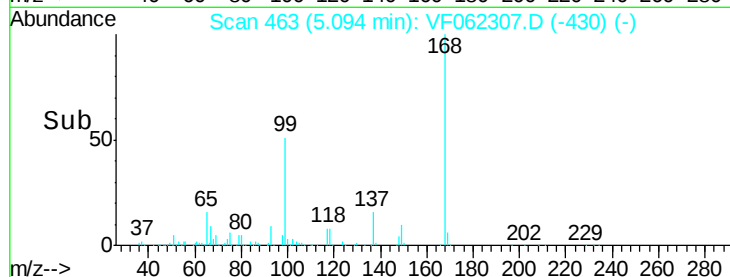
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 22.942 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.00 min

Lab File: VF062307.D

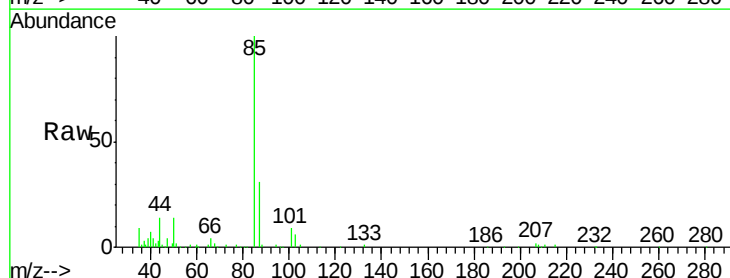
Acq: 26 Apr 2019 16:03

Tgt Ion: 85 Resp: 111389

Ion Ratio Lower Upper

85 100

87 31.0 17.1 51.3



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

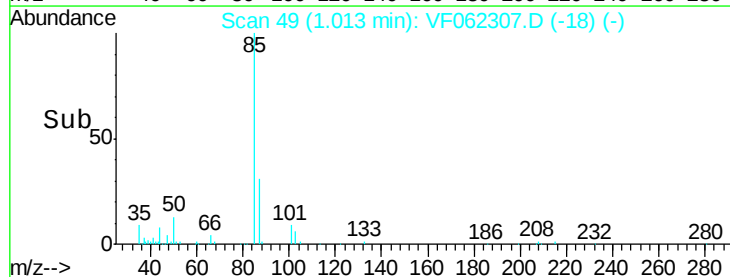
30000

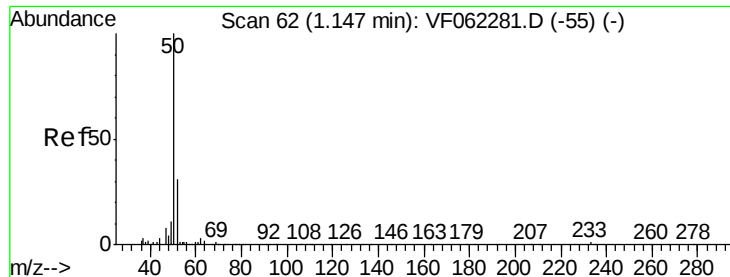
20000

10000

0

Time--> 0.90 1.00 1.10 1.20 1.30





#3

Chloromethane

Concen: 18.949 ug/l

RT: 1.17 min Scan# 65

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion: 50 Resp: 77505

Ion Ratio Lower Upper

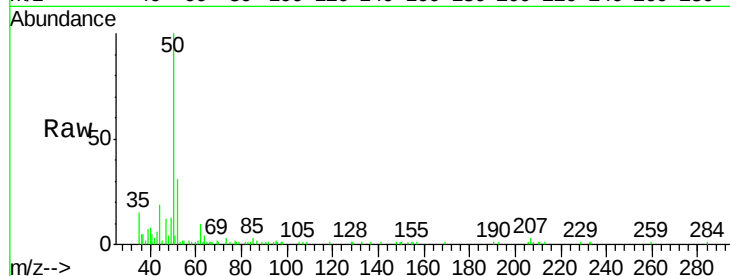
50 100

52 31.5 24.2 36.4

Manual Integrations
APPROVED

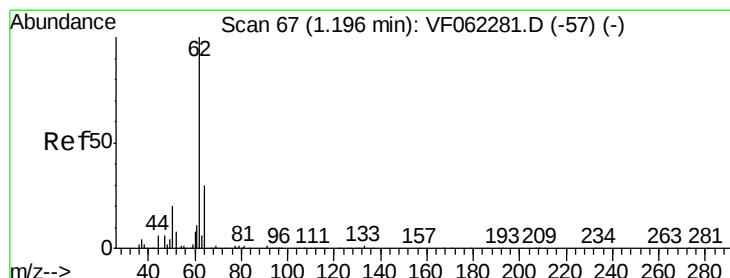
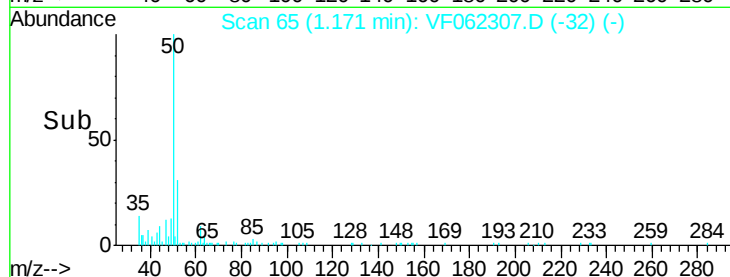
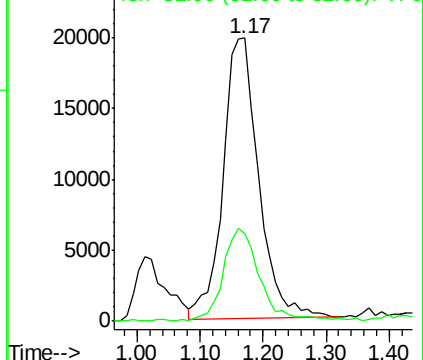
MMDadoda

4/29/2019 3:59:49 PM



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0



#4

Vinyl Chloride

Concen: 19.435 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.00 min

Lab File: VF062307.D

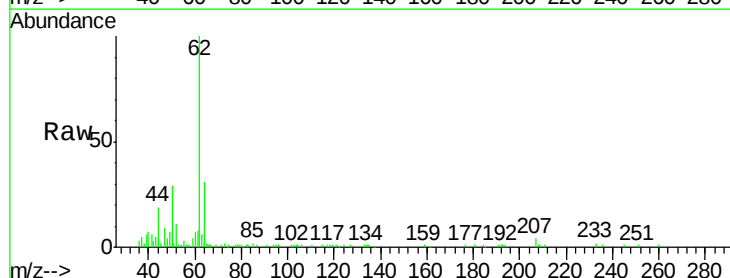
Acq: 26 Apr 2019 16:03

Tgt Ion: 62 Resp: 75286

Ion Ratio Lower Upper

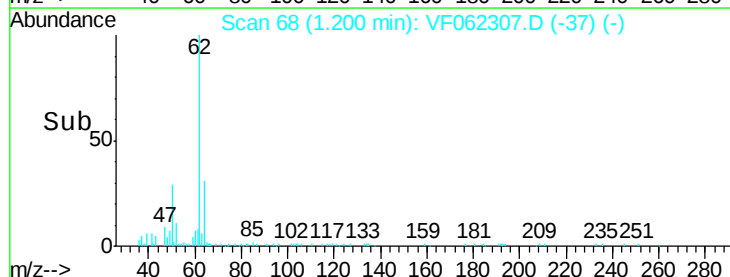
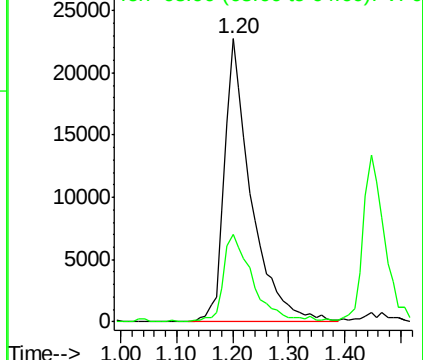
62 100

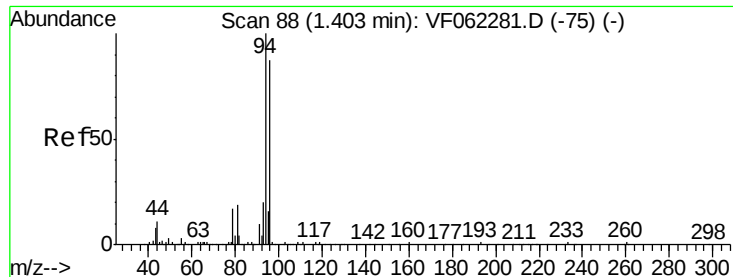
64 30.9 24.3 36.5



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 63.90 (63.60 to 64.60): VF0





#5

Bromomethane

Concen: 20.264 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion: 94 Resp: 53307

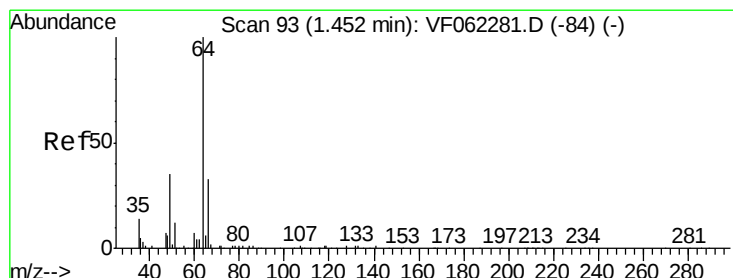
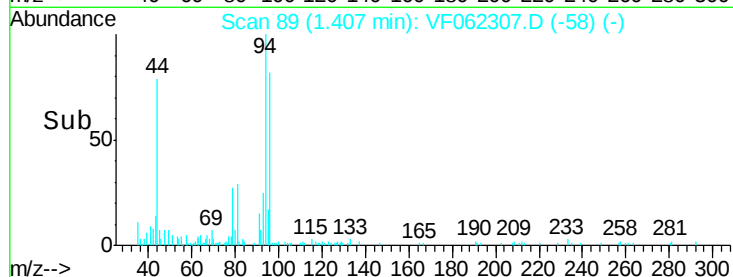
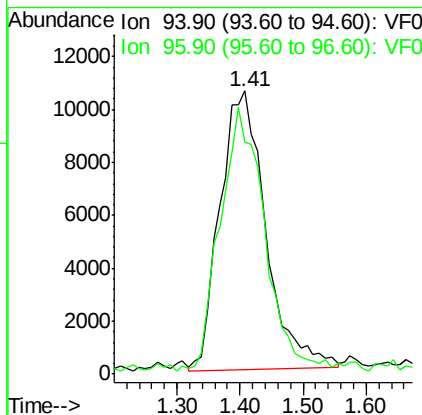
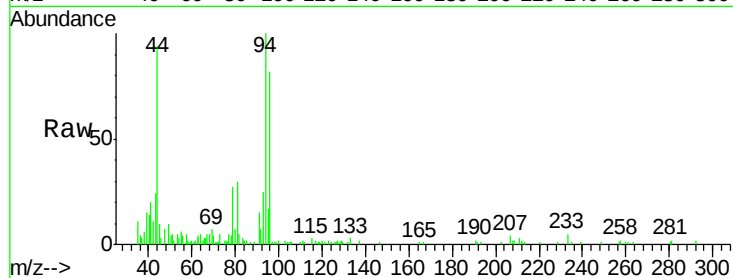
Ion Ratio Lower Upper

94 100

96 80.7 69.5 104.3

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#6

Chloroethane

Concen: 20.005 ug/l

RT: 1.45 min Scan# 93

Delta R.T. -0.01 min

Lab File: VF062307.D

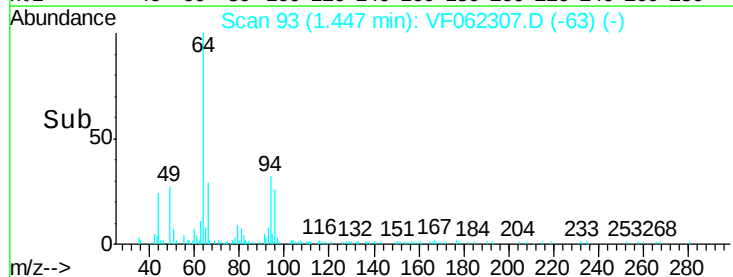
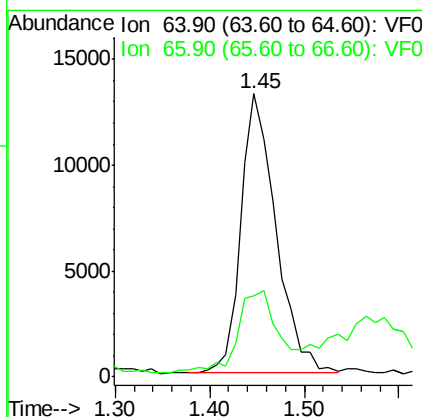
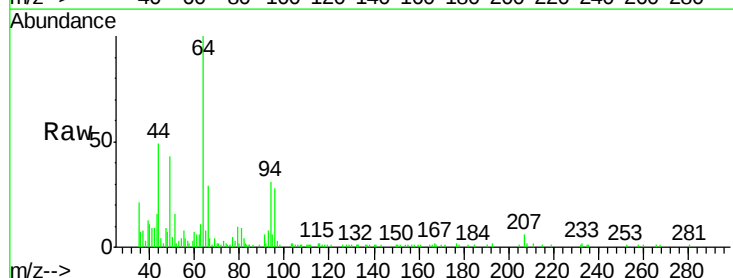
Acq: 26 Apr 2019 16:03

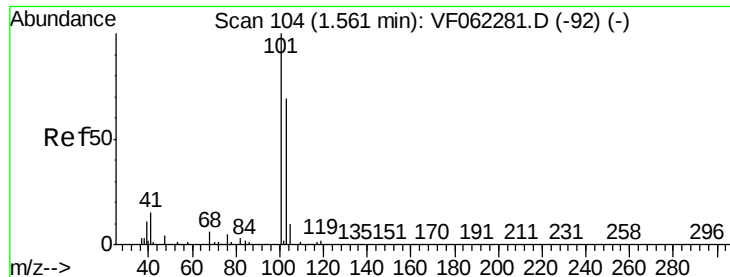
Tgt Ion: 64 Resp: 33970

Ion Ratio Lower Upper

64 100

66 26.4 26.0 39.0





#7

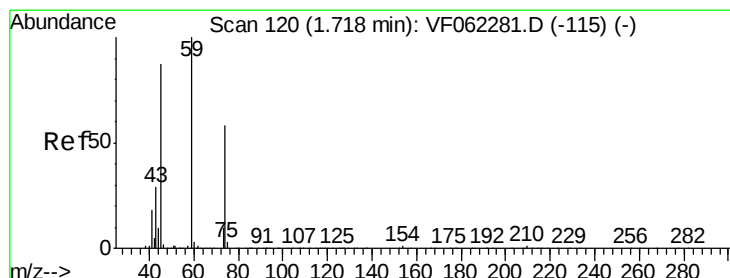
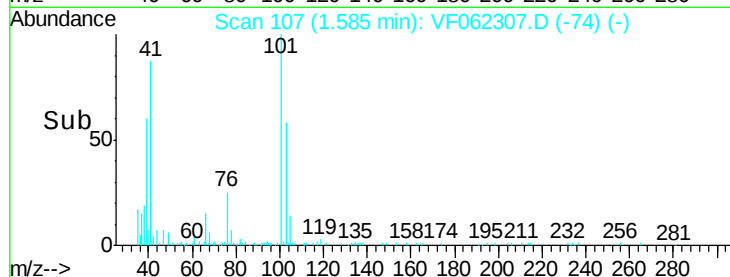
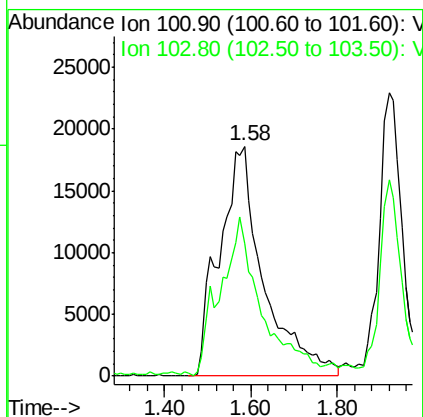
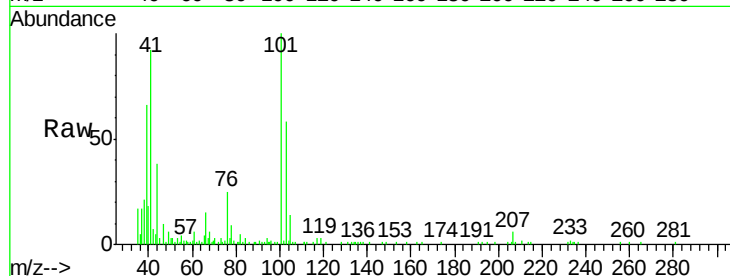
Trichlorofluoromethane
Concen: 21.558 ug/l
RT: 1.58 min Scan# 107
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.1	55.0	82.6

Manual Integrations
APPROVED

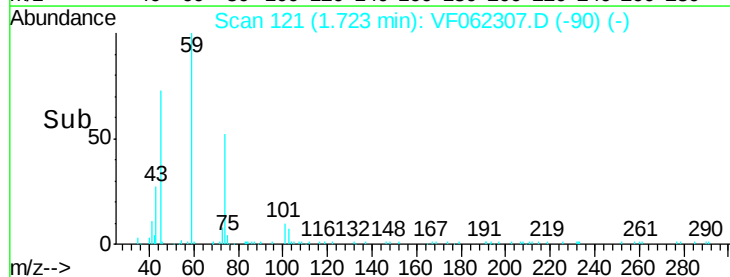
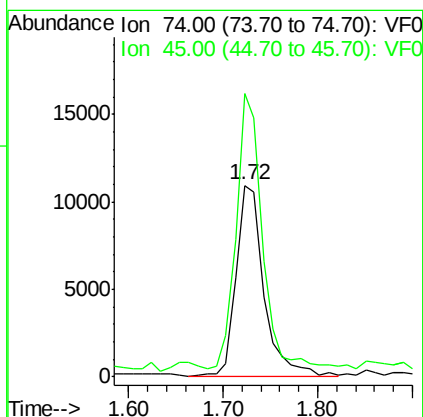
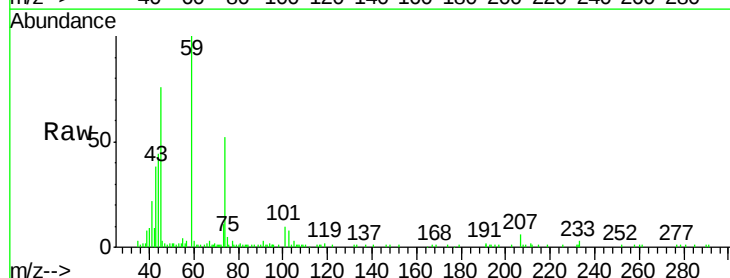
MMDadoda
4/29/2019 3:59:49 PM

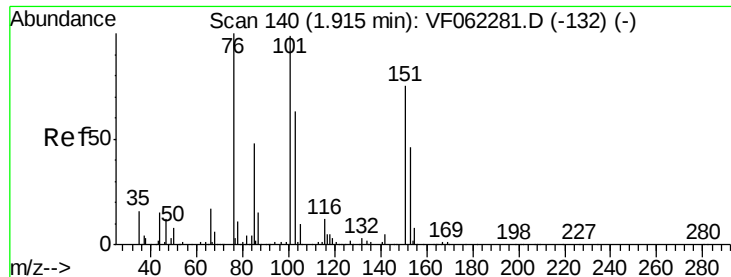


#8

Diethyl Ether
Concen: 20.377 ug/l
RT: 1.72 min Scan# 121
Delta R.T. 0.00 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	132.9	74.0	222.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.132 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

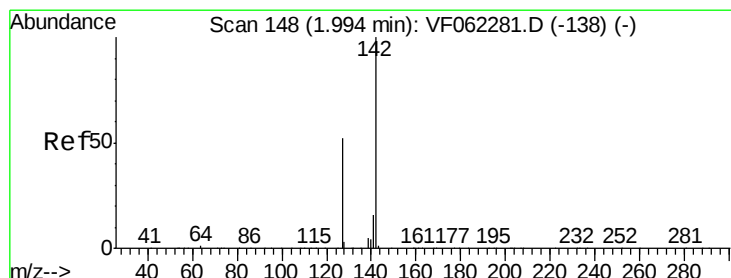
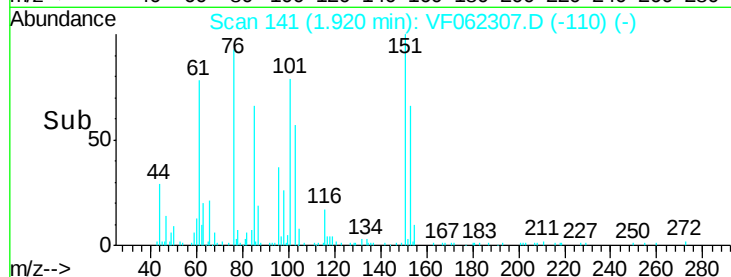
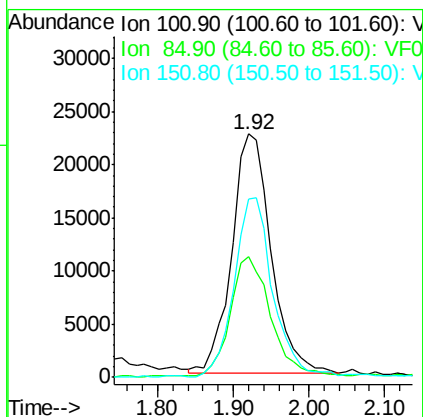
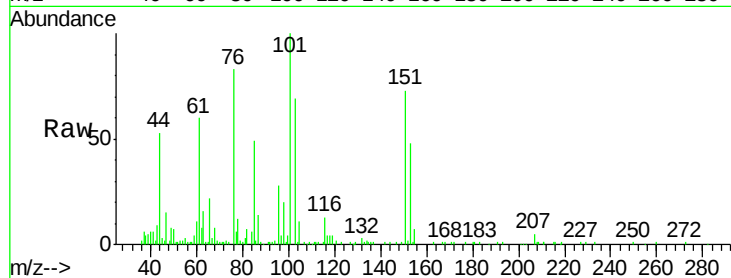
ClientSampleId :

VF0426SBS01

Tot Ion:	101	Resp:	81633
Ion Ratio	Lower	Upper	
101	100		
85	52.3	36.5	54.7
151	73.8	59.2	88.8

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#10

Methyl Iodide

Concen: 20.529 ug/l

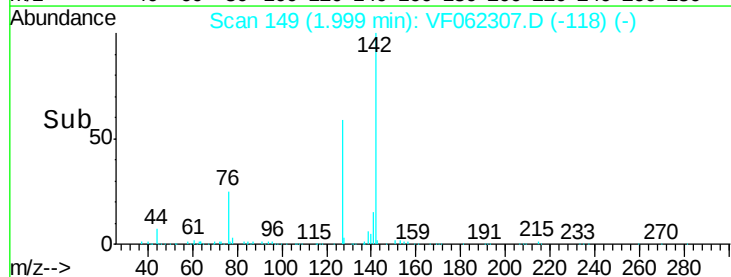
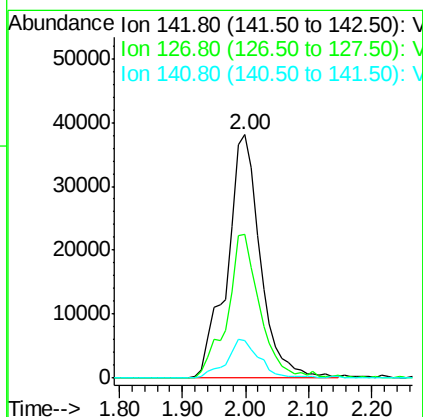
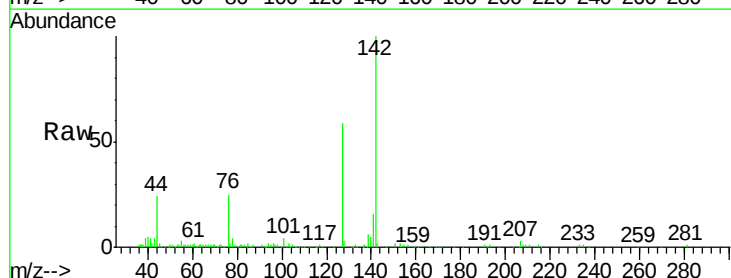
RT: 2.00 min Scan# 149

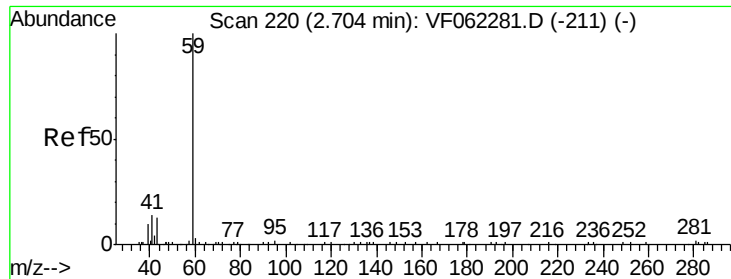
Delta R.T. 0.00 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	142	Resp:	138618
Ion Ratio	Lower	Upper	
142	100		
127	58.2	43.0	64.4
141	15.8	12.3	18.5





#11

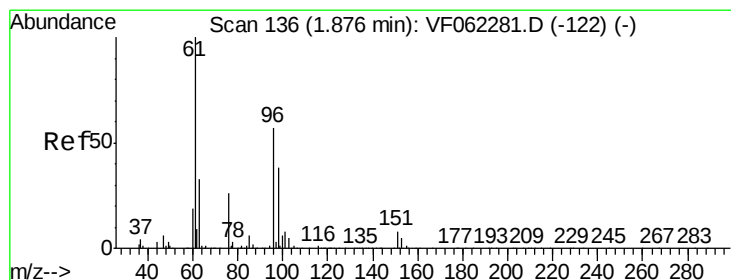
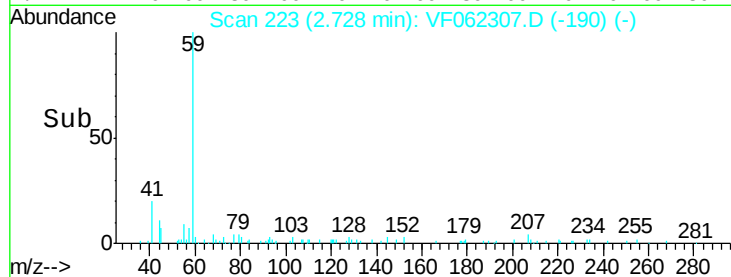
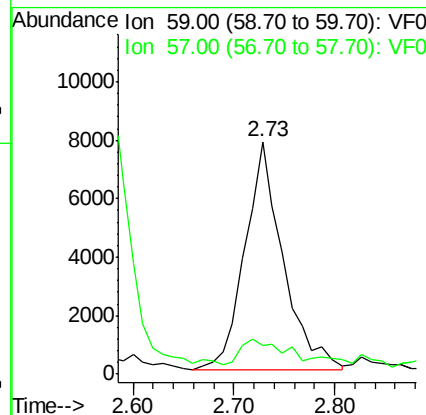
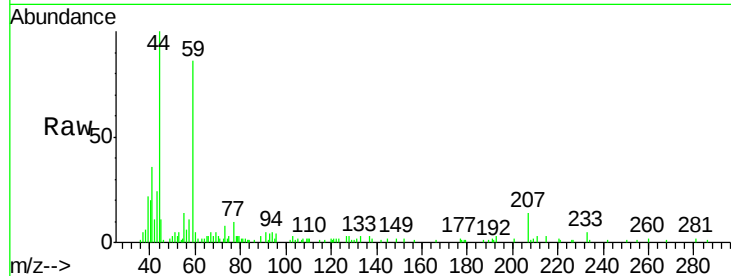
Tert butyl alcohol
 Concen: 102.305 ug/l
 RT: 2.73 min Scan# 223
 Delta R.T. 0.02 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.8	8.8	13.2#

Manual Integrations
 APPROVED

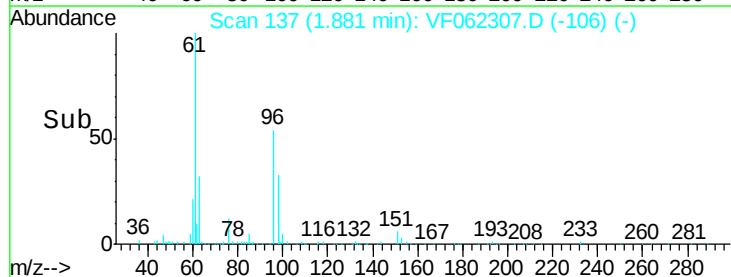
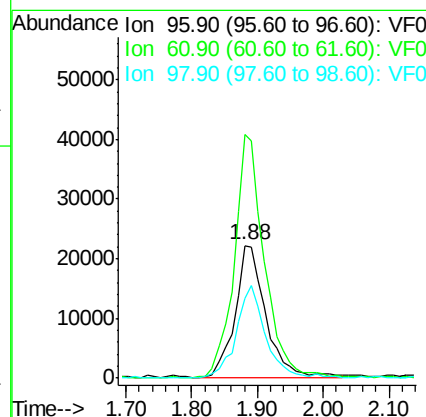
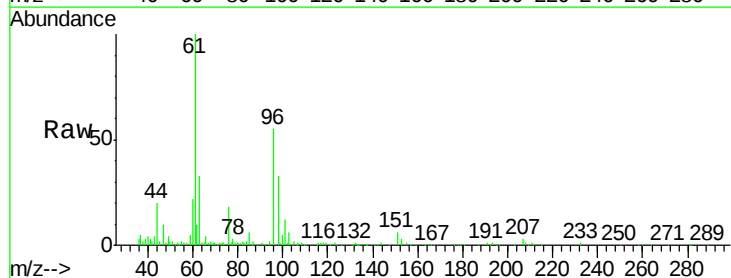
MMDadoda
 4/29/2019 3:59:49 PM

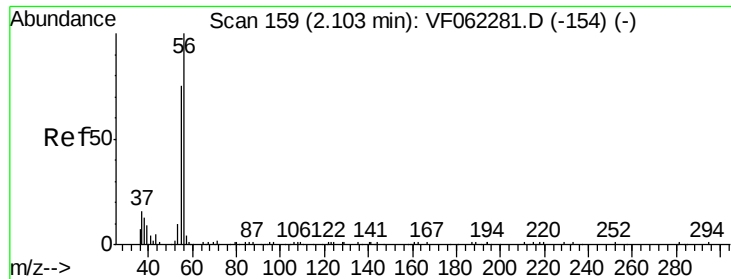


#12

1,1-Dichloroethene
 Concen: 21.013 ug/l
 RT: 1.88 min Scan# 137
 Delta R.T. 0.00 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	183.6	141.1	211.7
98	60.1	53.4	80.0





#13

Acrolein

Concen: 94.319 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion: 56 Resp: 16705

Ion Ratio Lower Upper

56 100

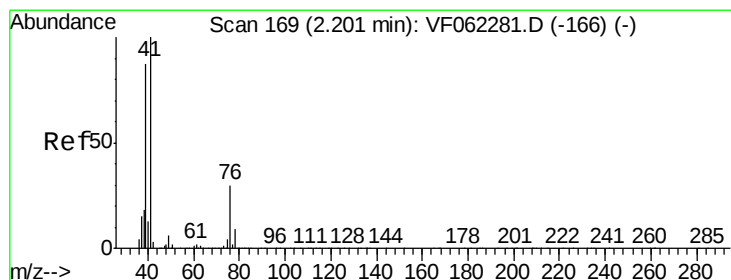
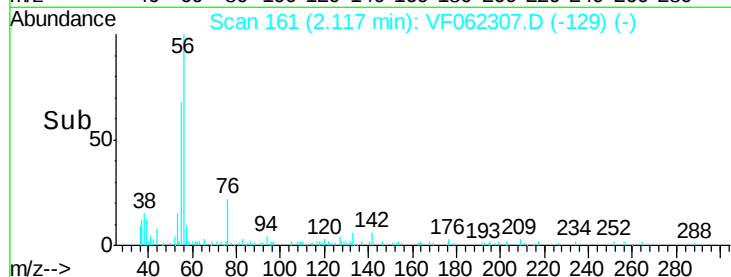
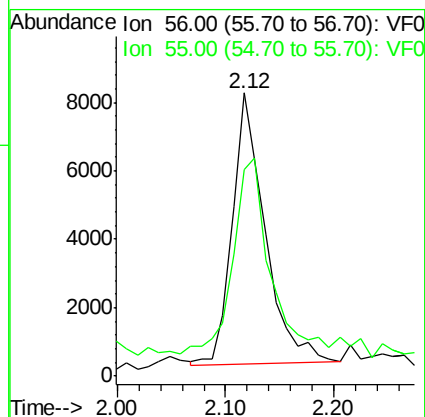
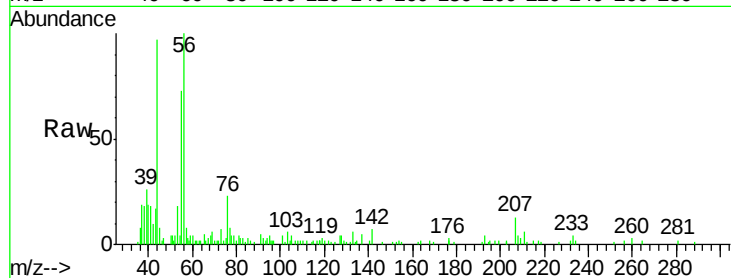
55 80.9 62.3 93.5

Manual Integrations

APPROVED

MMDadoda

4/29/2019 3:59:49 PM



#14

Allyl chloride

Concen: 20.673 ug/l

RT: 2.22 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

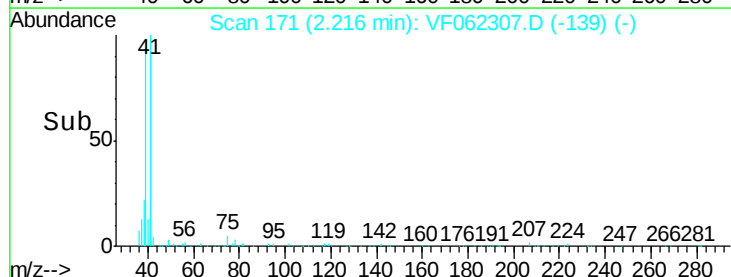
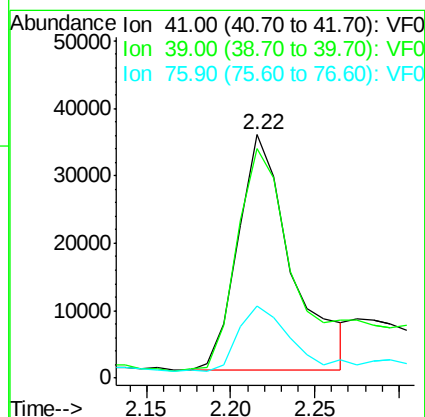
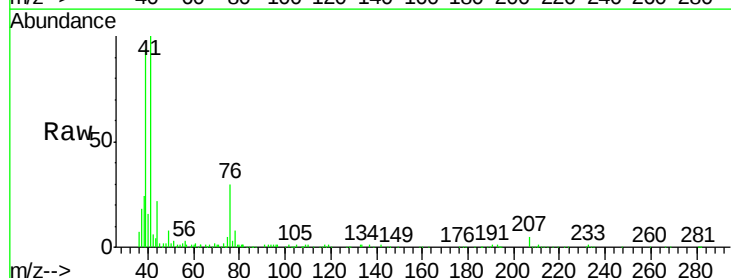
Tgt Ion: 41 Resp: 77548

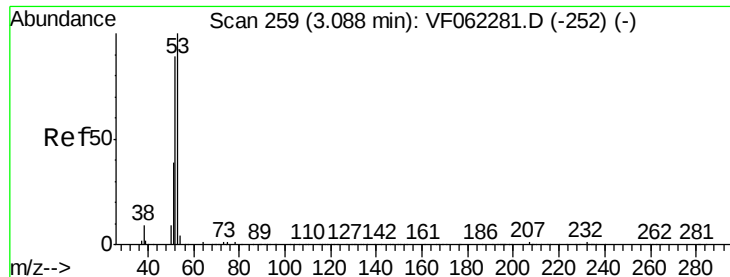
Ion Ratio Lower Upper

41 100

39 146.9 50.3 75.5#

76 27.1 14.8 22.2#





#15

Acrylonitrile

Concen: 94.553 ug/l

RT: 3.11 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

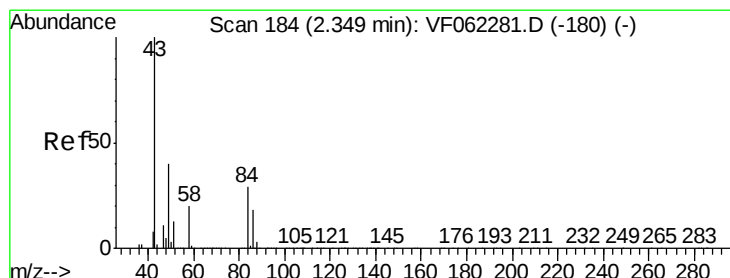
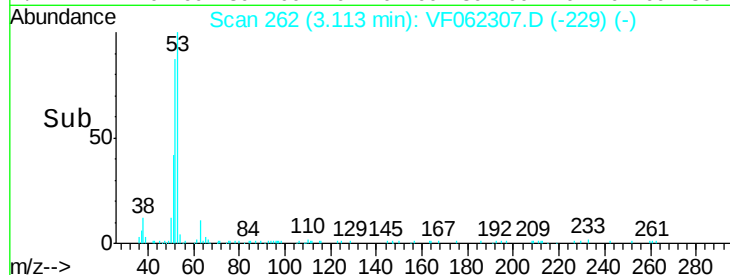
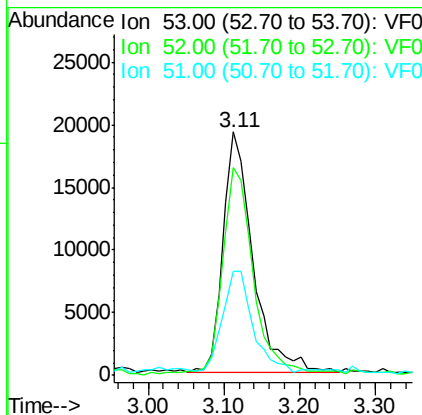
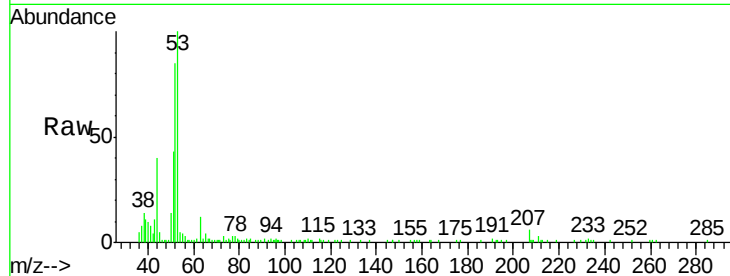
ClientSampleId :

VF0426SBS01

Tot Ion:	53	Resp:	52425
Ion Ratio	Lower	Upper	
53	100		
52	92.2	70.6	105.8
51	41.6	32.6	48.8

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#16

Acetone

Concen: 114.274 ug/l

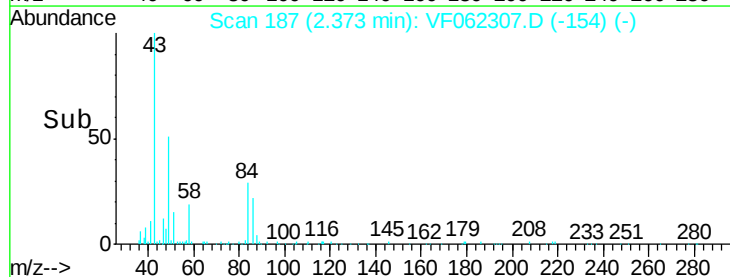
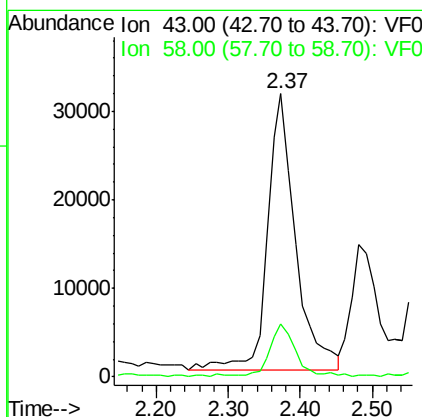
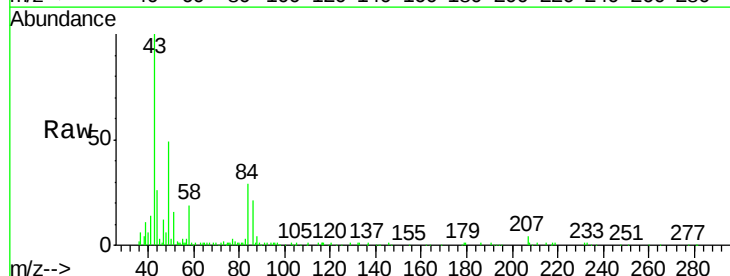
RT: 2.37 min Scan# 187

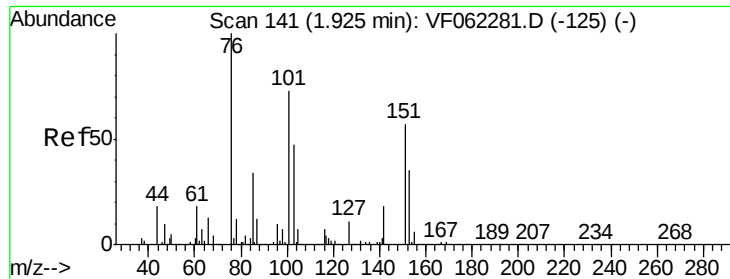
Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	43	Resp:	84671
Ion Ratio	Lower	Upper	
43	100		
58	18.9	16.4	24.6





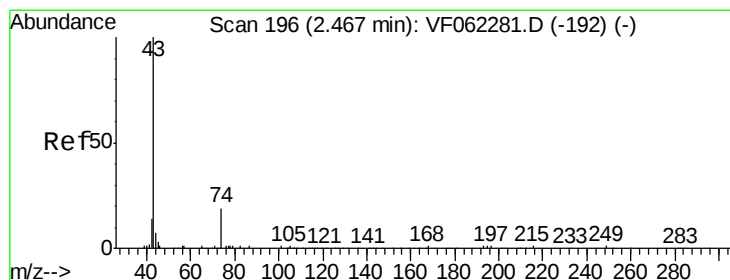
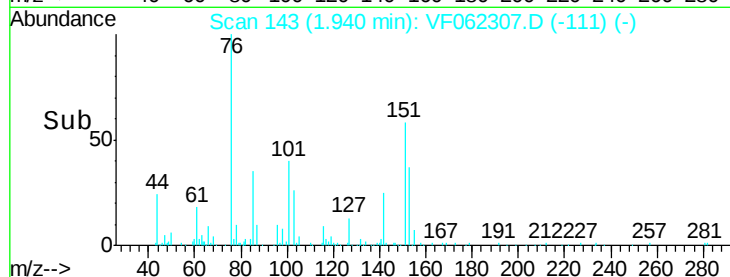
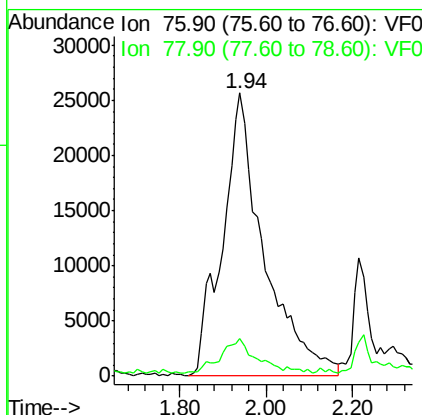
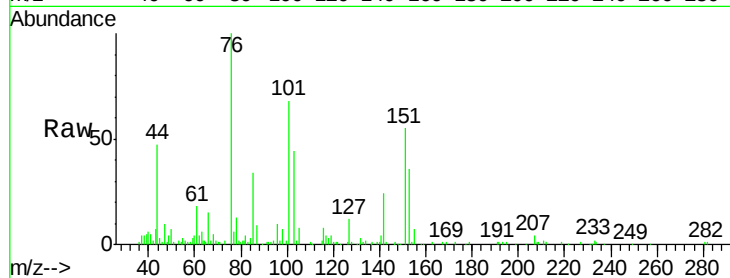
#17
Carbon Disulfide
Concen: 18.959 ug/l
RT: 1.94 min Scan# 143
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion: 76 Resp: 171981
Ion Ratio Lower Upper
76 100
78 12.0 9.8 14.8

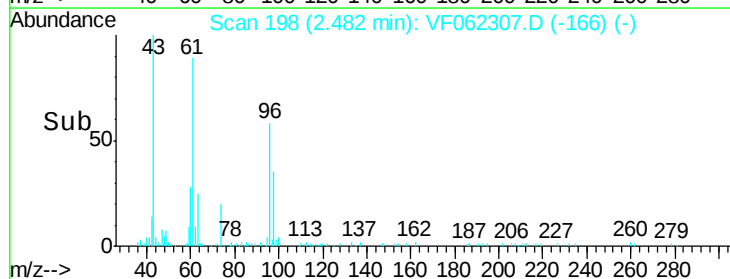
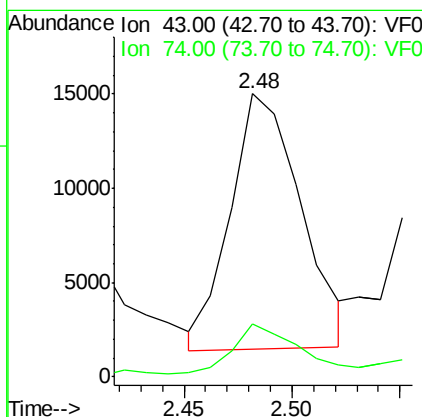
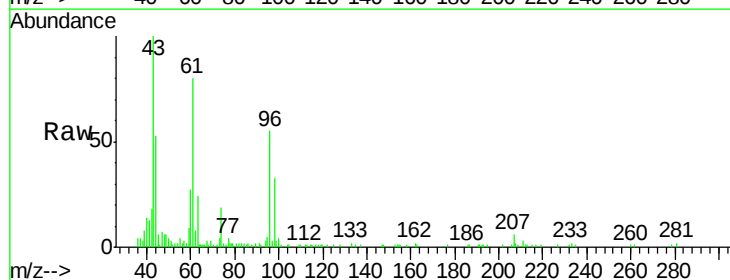
Manual Integrations
APPROVED

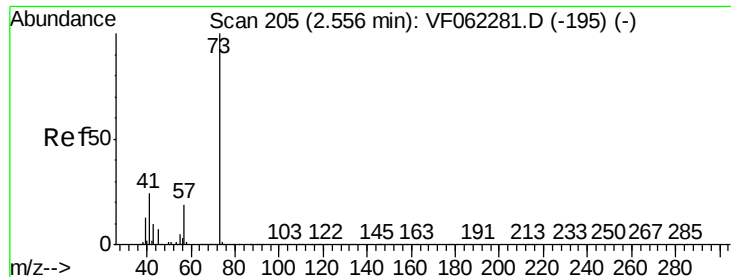
MMDadoda
4/29/2019 3:59:49 PM



#18
Methyl Acetate
Concen: 20.638 ug/l
RT: 2.48 min Scan# 198
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion: 43 Resp: 30856
Ion Ratio Lower Upper
43 100
74 20.2 14.4 21.6





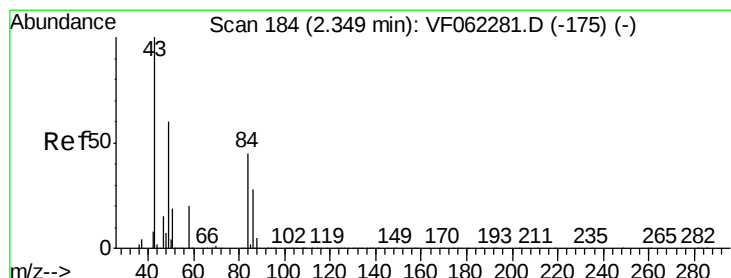
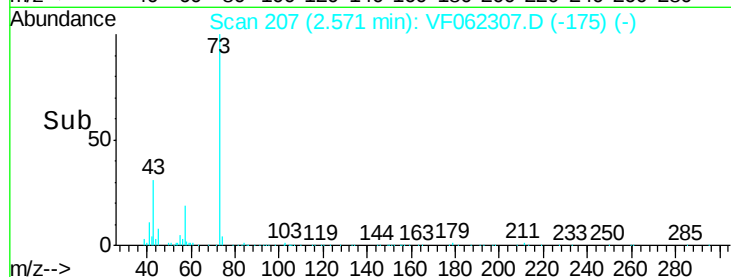
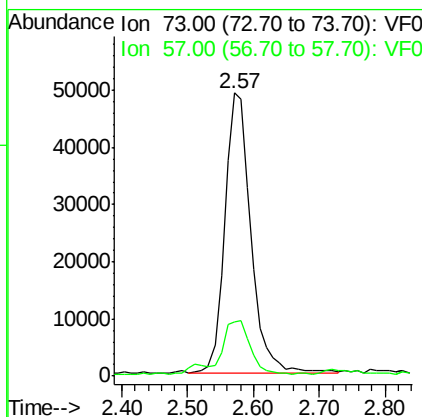
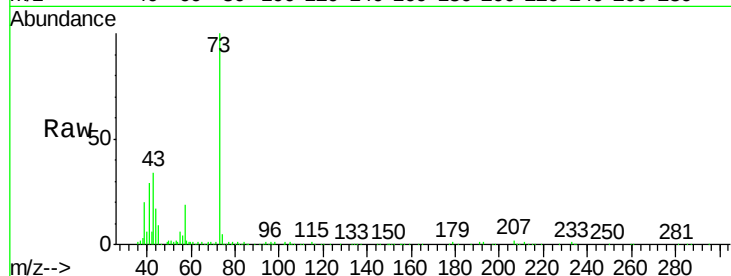
#19
Methyl tert-butyl Ether
Concen: 20.835 ug/l
RT: 2.57 min Scan# 207
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.1	15.5	23.3

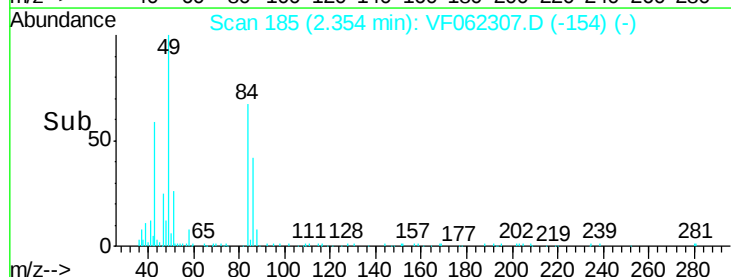
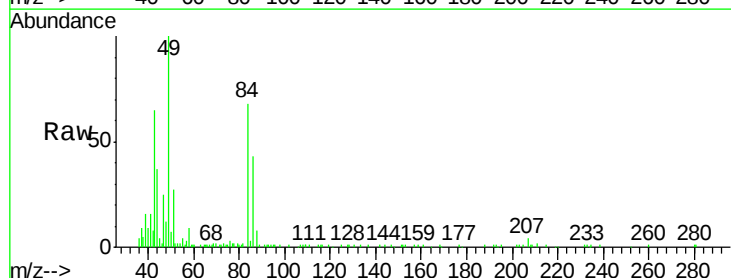
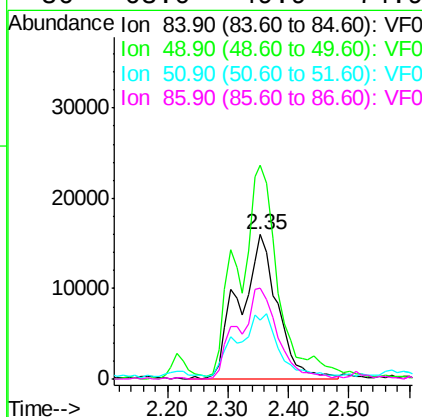
Manual Integrations
APPROVED

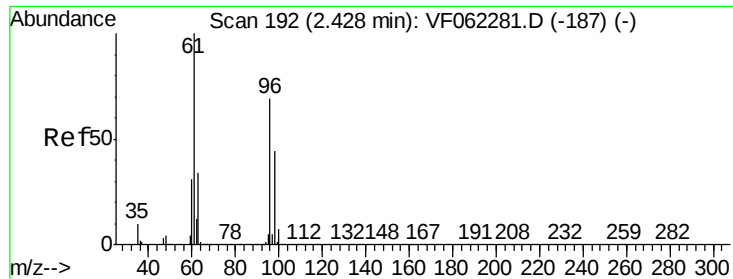
MMDadoda
4/29/2019 3:59:49 PM



#20
Methylene Chloride
Concen: 18.859 ug/l
RT: 2.35 min Scan# 185
Delta R.T. 0.00 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.9	112.1	168.1
51	37.6	35.9	53.9
86	63.0	49.9	74.9





#21

trans-1,2-Dichloroethene

Concen: 20.251 ug/l

RT: 2.44 min Scan# 194

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

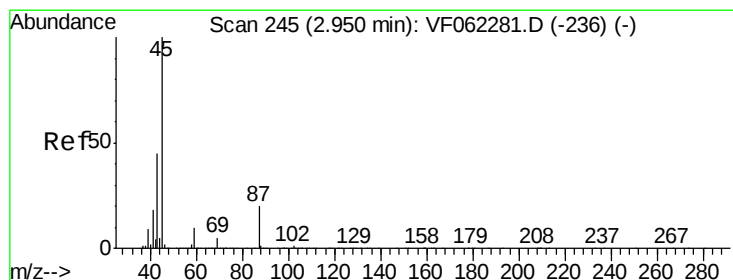
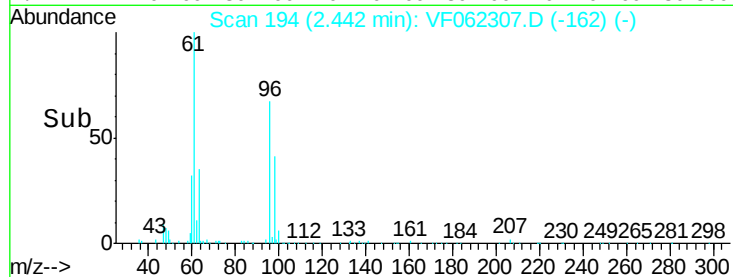
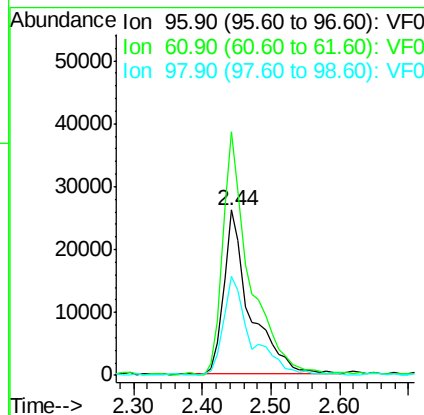
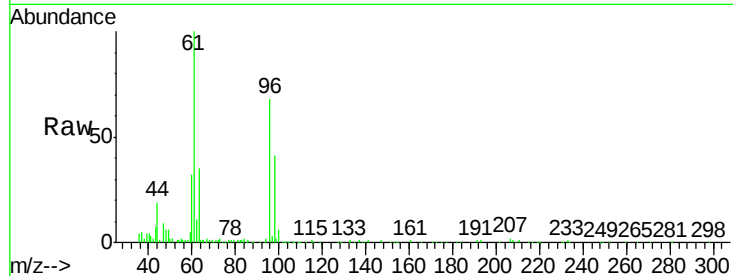
ClientSampleId :

VF0426SBS01

Tot Ion:	96	Resp:	68981
Ion	Ratio	Lower	Upper
96	100		
61	147.1	116.2	174.2
98	60.7	51.4	77.0

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#22

Diisopropyl ether

Concen: 19.758 ug/l

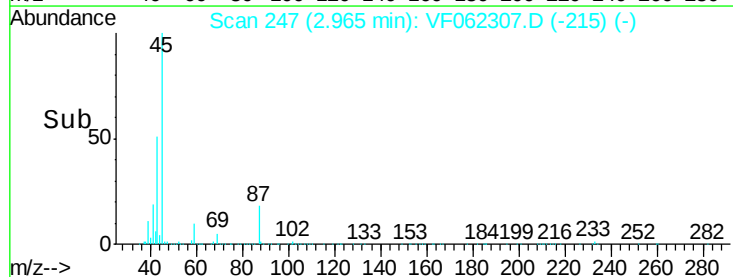
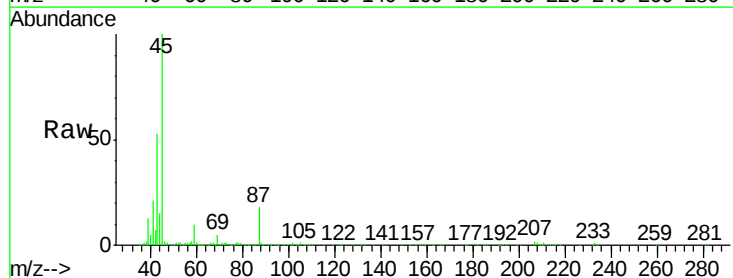
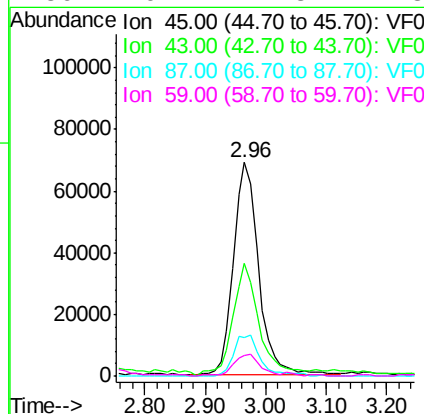
RT: 2.96 min Scan# 247

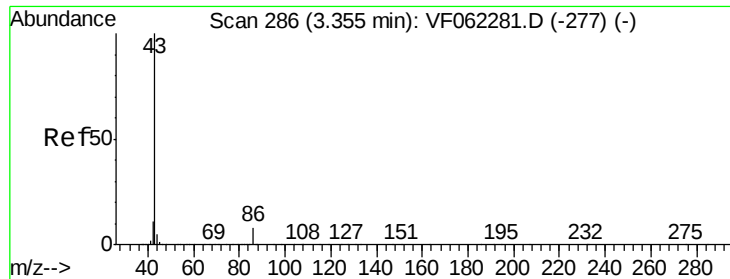
Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	45	Resp:	199525
Ion	Ratio	Lower	Upper
45	100		
43	51.2	36.2	54.2
87	18.0	15.8	23.6
59	9.4	7.8	11.8





#23

Vinyl Acetate

Concen: 100.312 ug/l

RT: 3.38 min Scan# 289

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion: 43 Resp: 449196

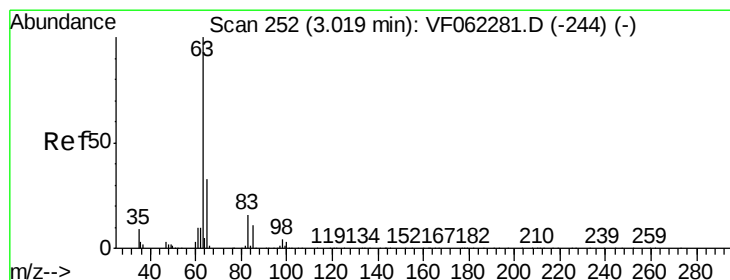
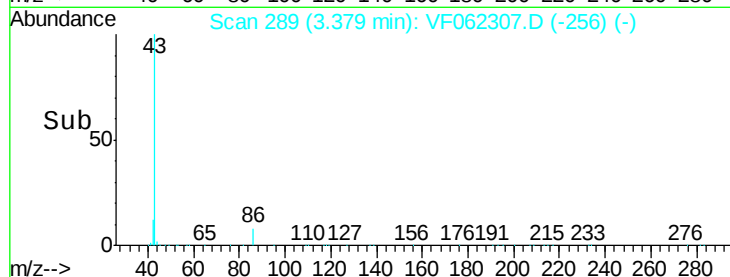
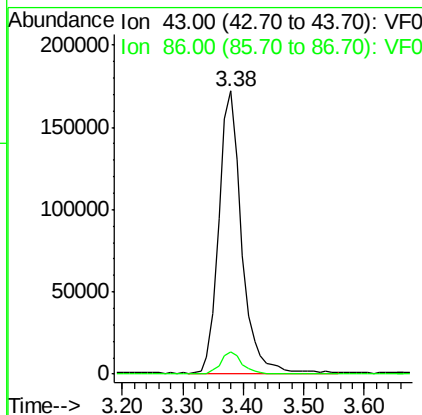
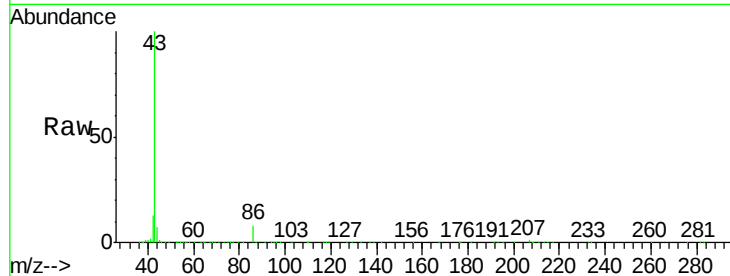
Ion Ratio Lower Upper

43 100

86 7.9 6.0 9.0

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#24

1,1-Dichloroethane

Concen: 21.611 ug/l

RT: 3.03 min Scan# 254

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

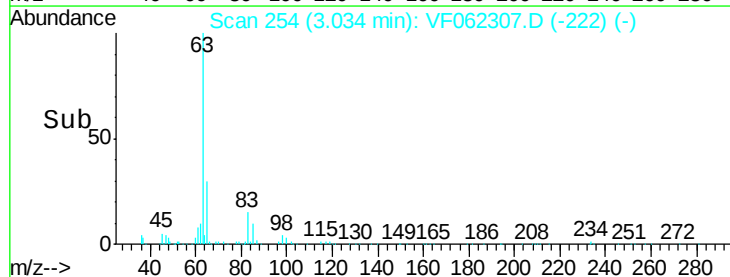
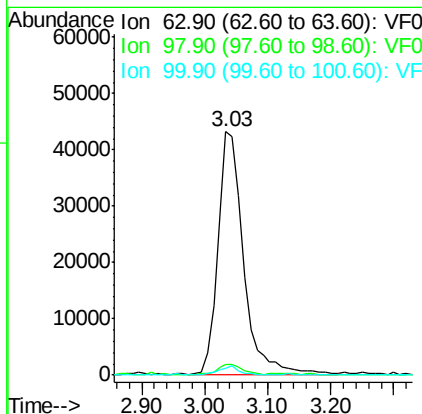
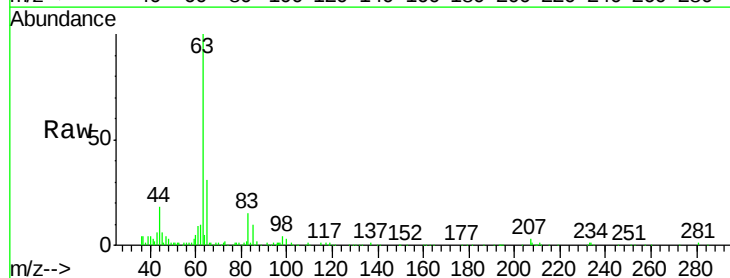
Tgt Ion: 63 Resp: 124559

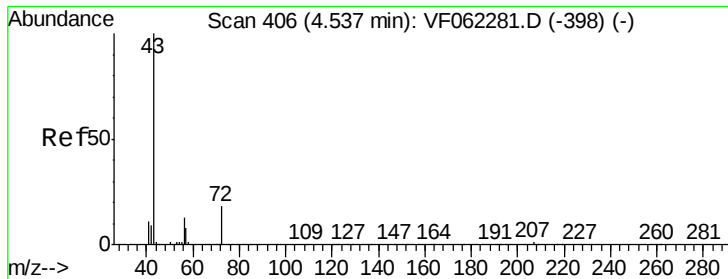
Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.2

100 2.8 1.5 4.5





#25

2-Butanone

Concen: 94.767 ug/l

RT: 4.56 min Scan# 409

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tot Ion: 43 Resp: 111337

Ion Ratio Lower Upper

43 100

72 20.2 15.8 23.6

Instrument :

MSVOA_F

ClientSampleId :

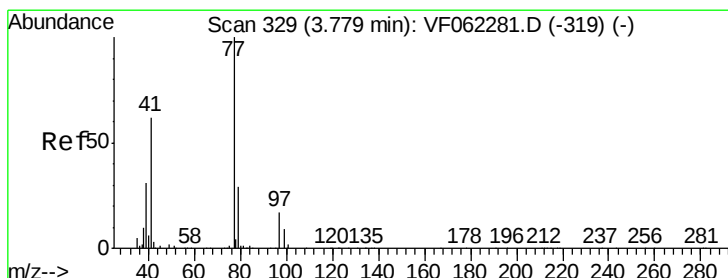
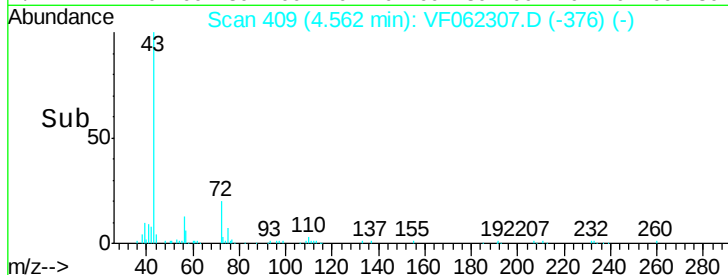
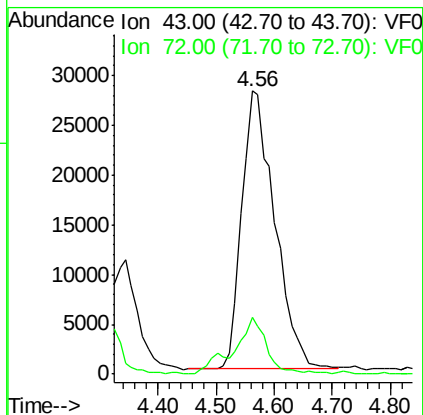
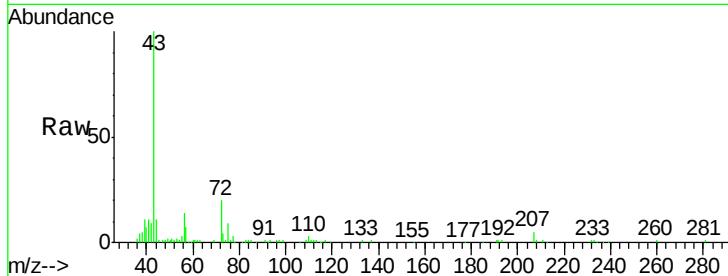
VF0426SBS01

Manual Integrations

APPROVED

MMDadoda

4/29/2019 3:59:49 PM



#26

2,2-Dichloropropane

Concen: 22.119 ug/l

RT: 3.81 min Scan# 333

Delta R.T. 0.03 min

Lab File: VF062307.D

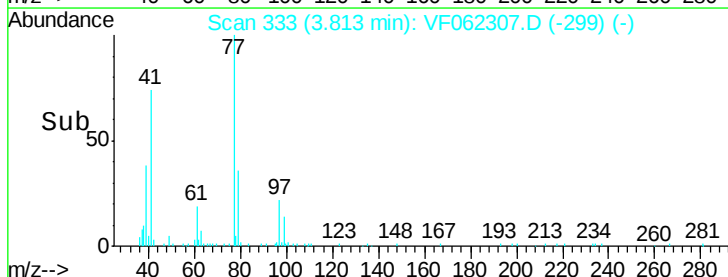
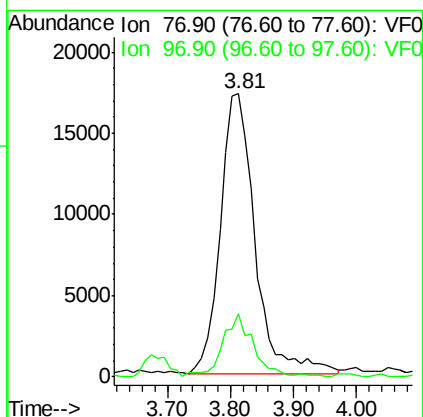
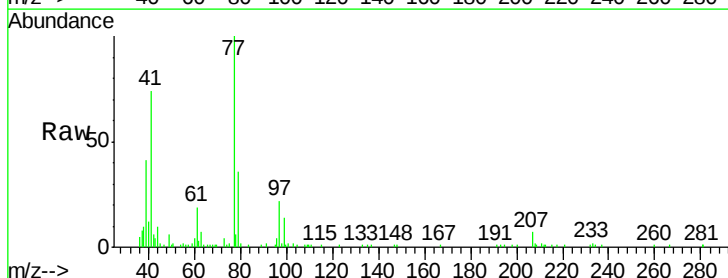
Acq: 26 Apr 2019 16:03

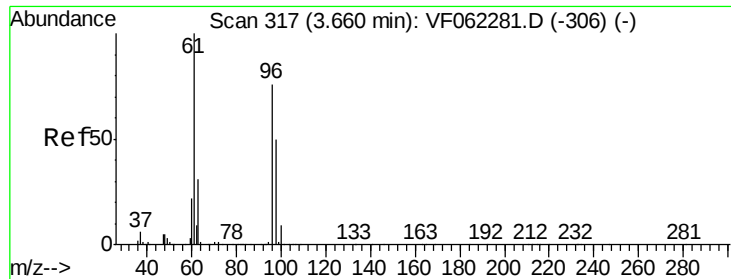
Tgt Ion: 77 Resp: 66204

Ion Ratio Lower Upper

77 100

97 19.7 10.3 30.8





#27

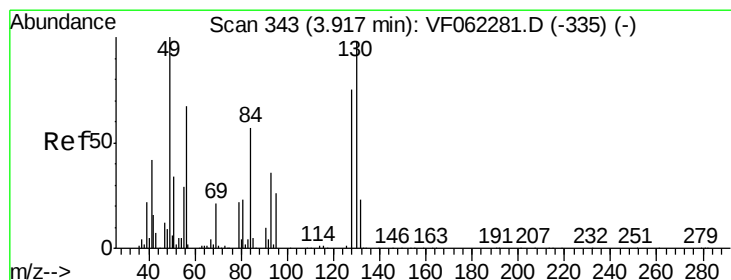
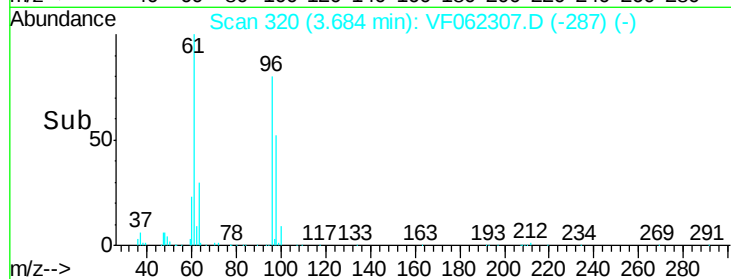
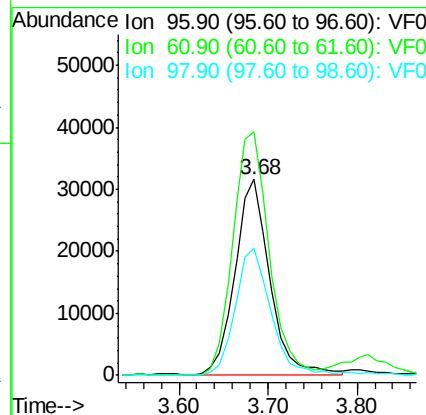
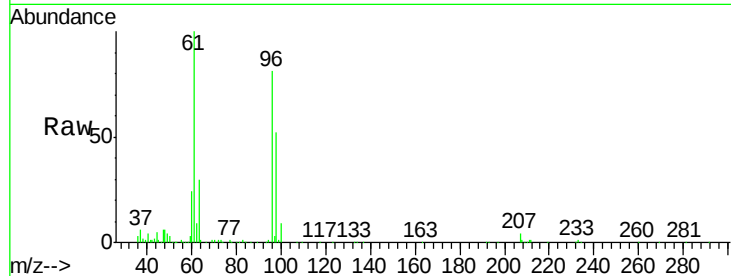
cis-1,2-Dichloroethene
Concen: 19.699 ug/l
RT: 3.68 min Scan# 320
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.0	0.0	257.6
98	67.0	0.0	137.4

Manual Integrations
APPROVED

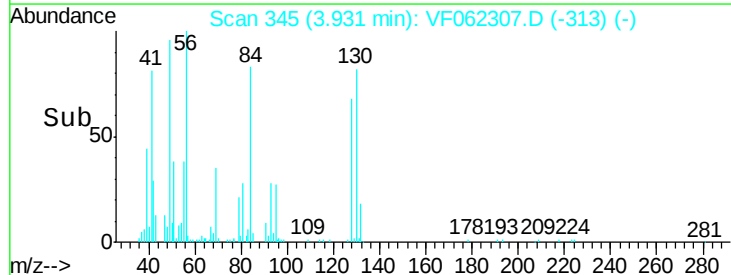
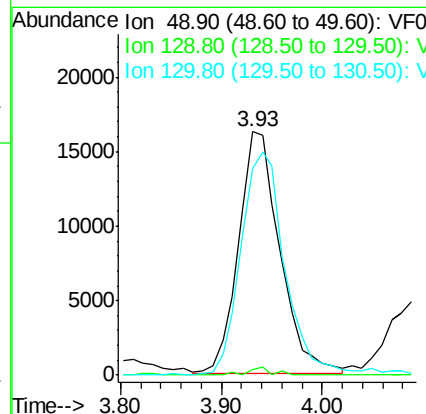
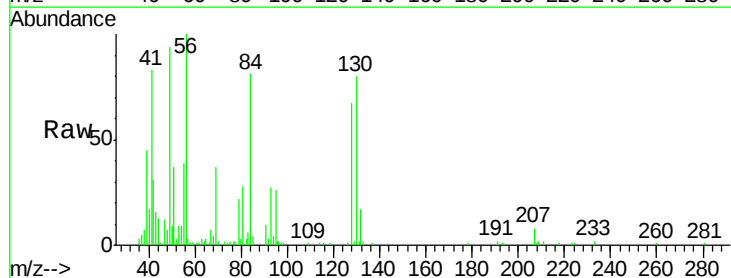
MMDadoda
4/29/2019 3:59:49 PM

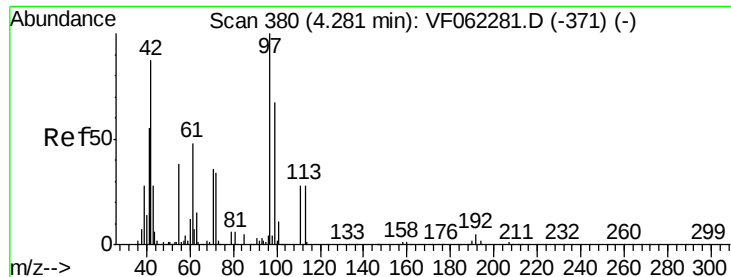


#28

Bromochloromethane
Concen: 19.094 ug/l
RT: 3.93 min Scan# 345
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	0.0#
130	97.7	77.0	115.4





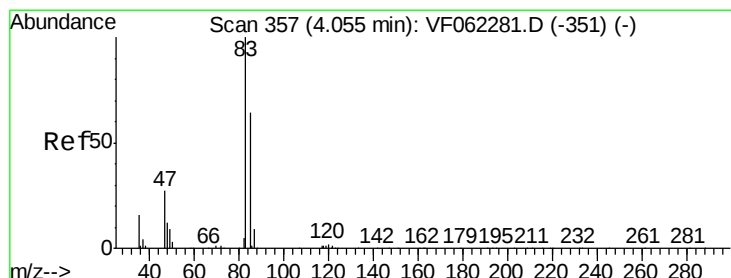
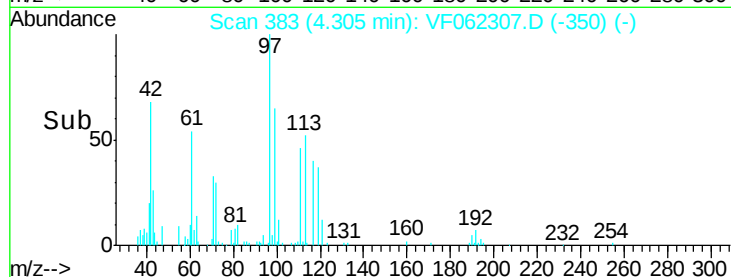
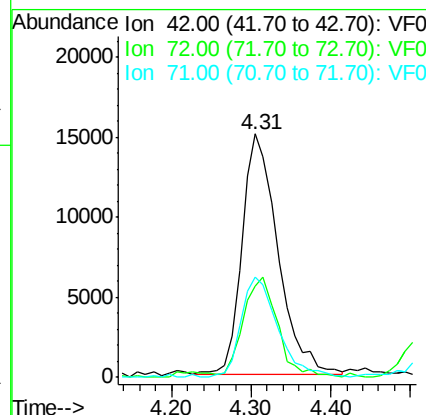
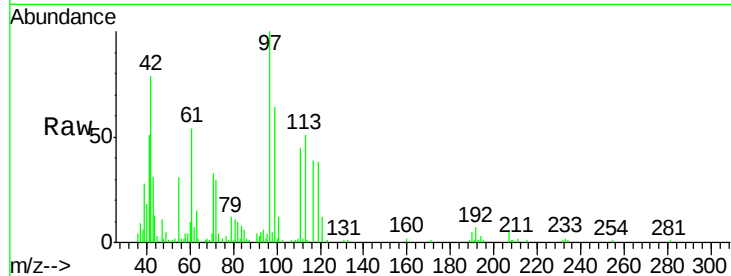
#29
Tetrahydrofuran
Concen: 90.981 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.9	29.3	43.9
71	42.8	31.2	46.8

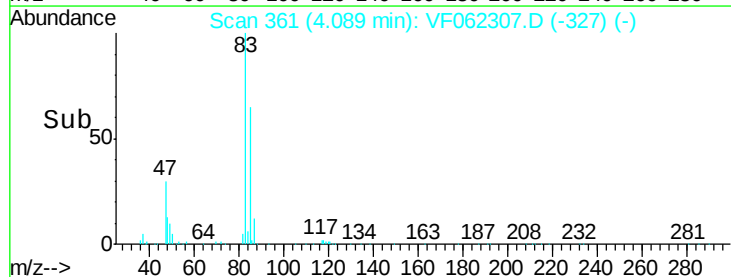
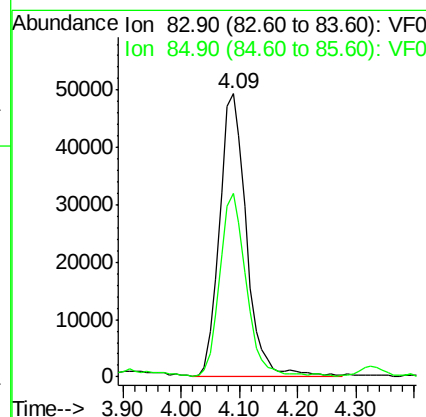
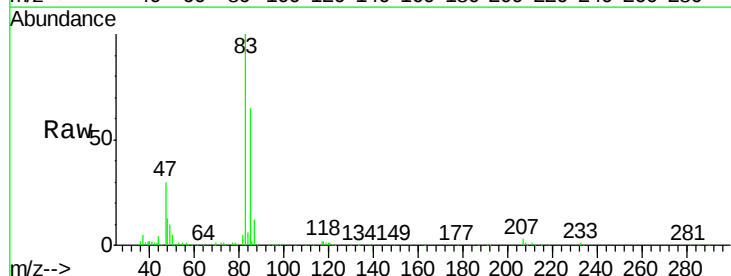
Manual Integrations
APPROVED

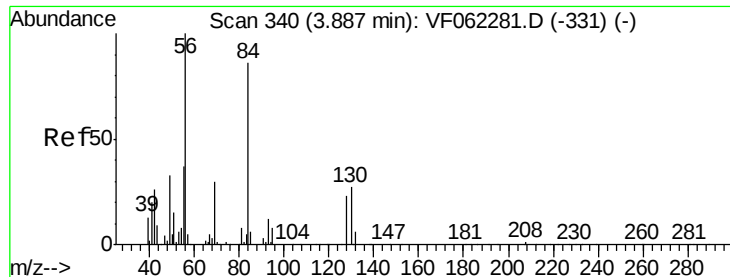
MMDadoda
4/29/2019 3:59:49 PM



#30
Chloroform
Concen: 21.900 ug/l
RT: 4.09 min Scan# 361
Delta R.T. 0.03 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.1	76.7





#31

Cyclohexane

Concen: 19.805 ug/l

RT: 3.91 min Scan# 343

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

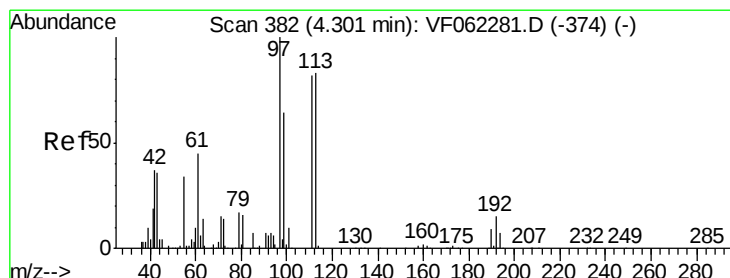
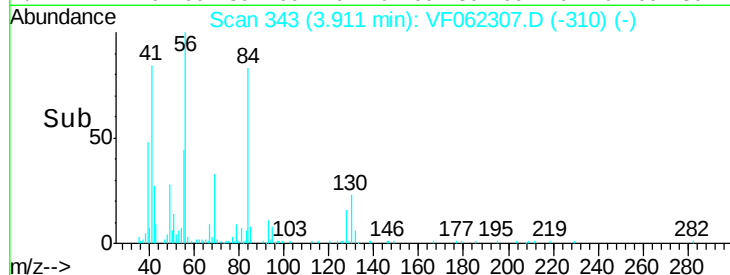
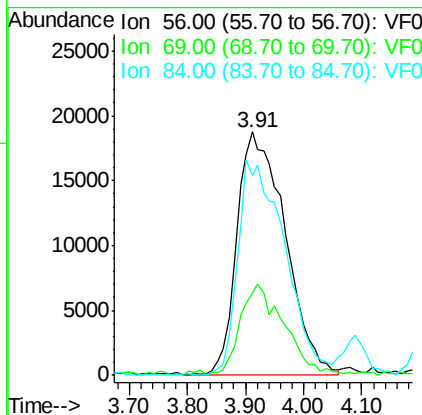
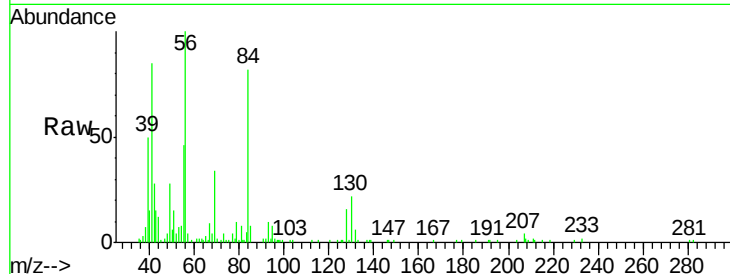
ClientSampleId :

VF0426SBS01

Tot Ion:	56	Resp:	108615
Ion Ratio		Lower	Upper
56	100		
69	32.5	24.3	36.5
84	81.6	68.5	102.7

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#32

1,1,1-Trichloroethane

Concen: 23.170 ug/l

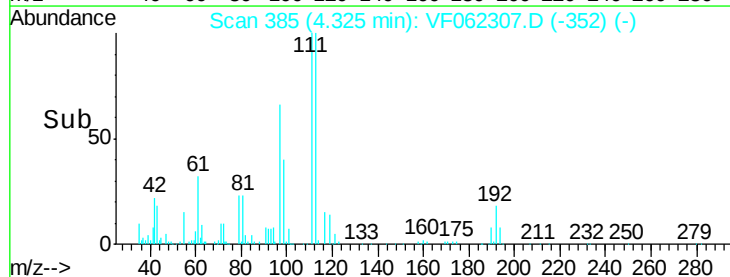
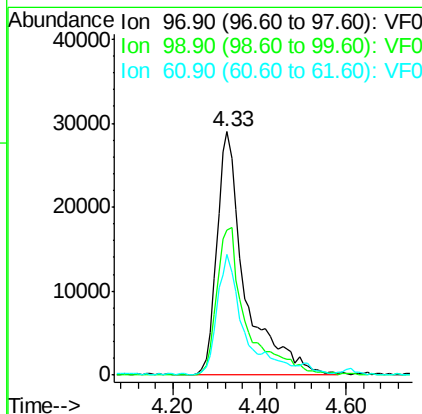
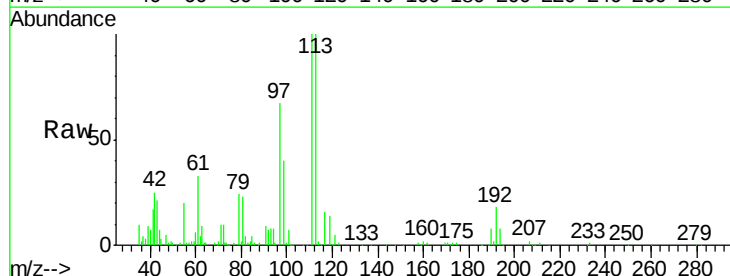
RT: 4.33 min Scan# 385

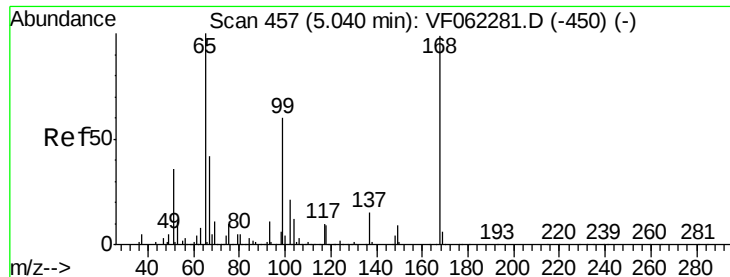
Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	97	Resp:	131661
Ion Ratio		Lower	Upper
97	100		
99	63.2	41.6	62.4#
61	47.4	31.6	47.4#





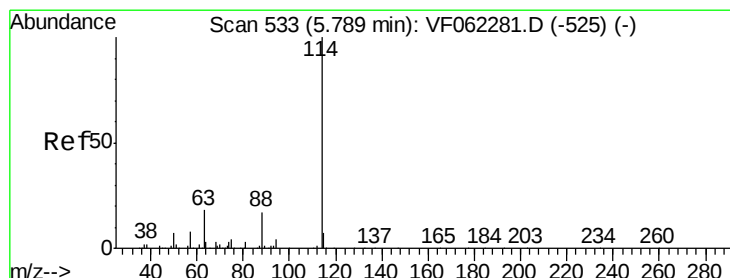
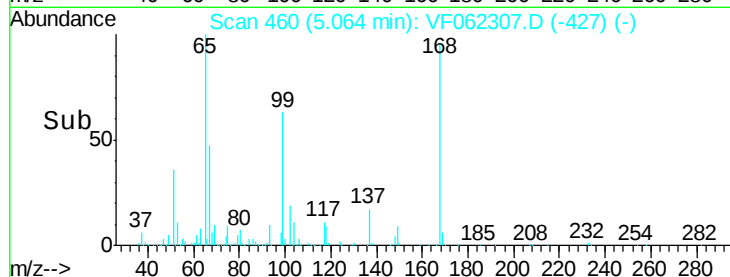
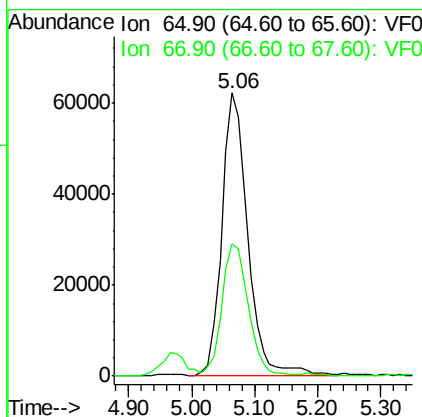
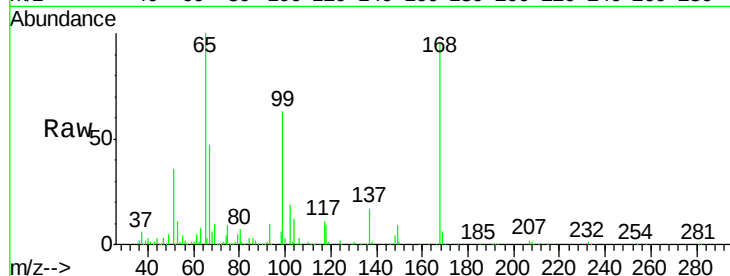
#33
 1,2-Dichloroethane-d4
 Concen: 53.242 ug/l
 RT: 5.06 min Scan# 460
 Delta R.T. 0.02 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	176194		
67	47.7	0.0	98.8	

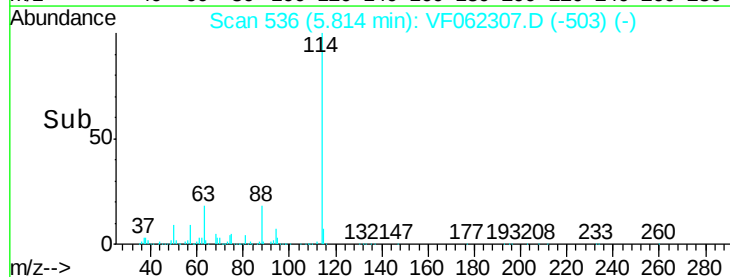
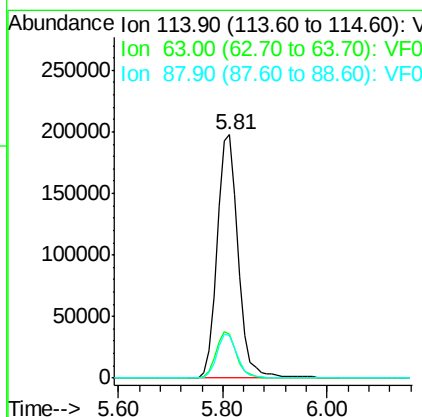
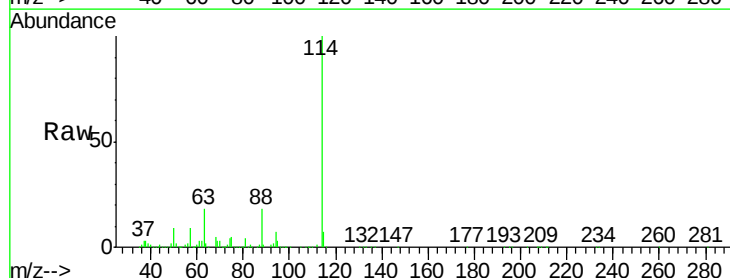
Manual Integrations
 APPROVED

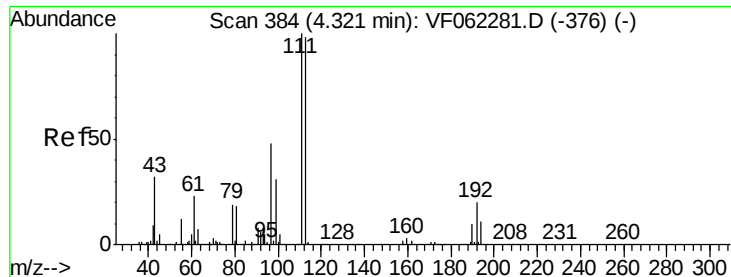
MMDadoda
 4/29/2019 3:59:49 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.81 min Scan# 536
 Delta R.T. 0.02 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	553488		
63	18.2	0.0	35.6	
88	17.6	0.0	34.6	





#35

Dibromofluoromethane

Concen: 50.874 ug/l

RT: 4.34 min Scan# 387

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

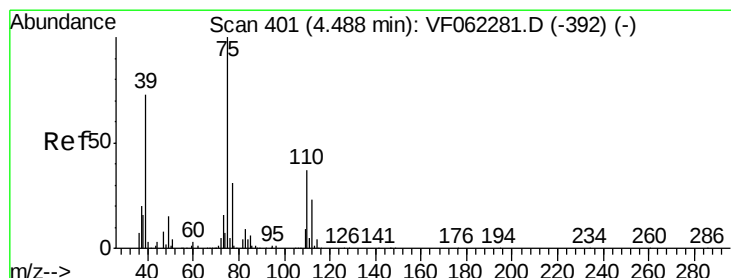
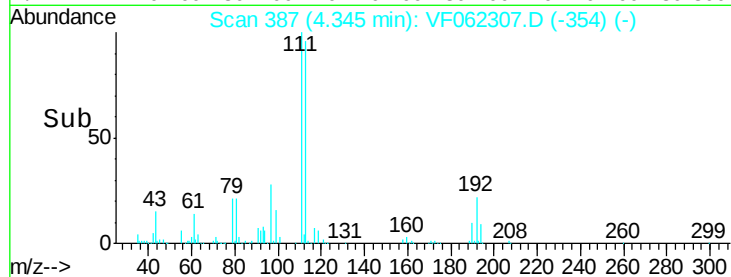
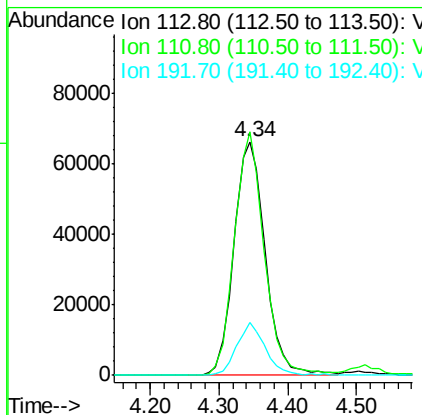
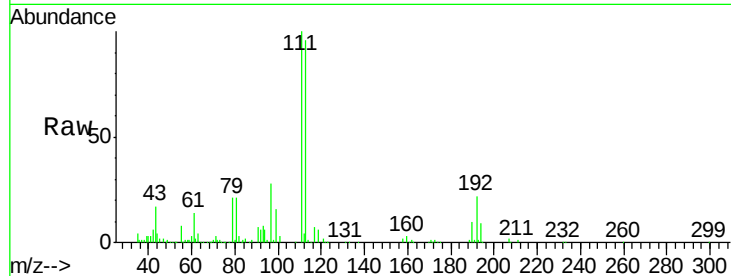
ClientSampleId :

VF0426SBS01

Tot Ion:	113	Resp:	208779
Ion Ratio	Lower	Upper	
113	100		
111	99.4	81.4	122.2
192	20.8	17.0	25.4

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#36

1,1-Dichloropropene

Concen: 21.013 ug/l

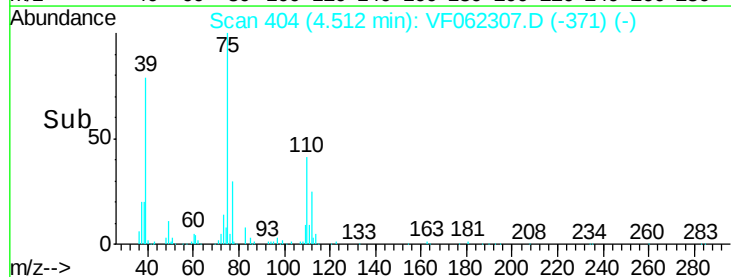
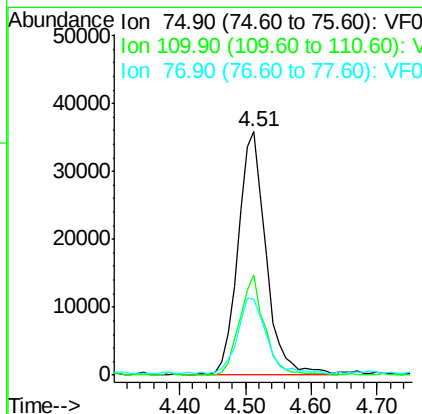
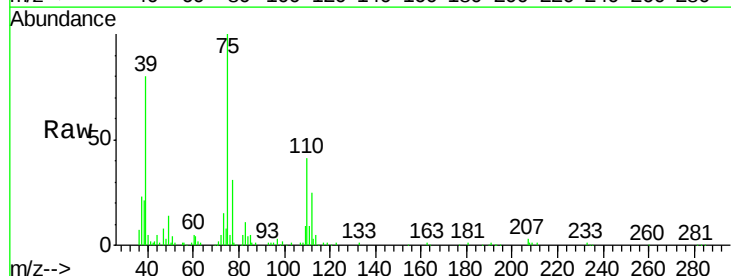
RT: 4.51 min Scan# 404

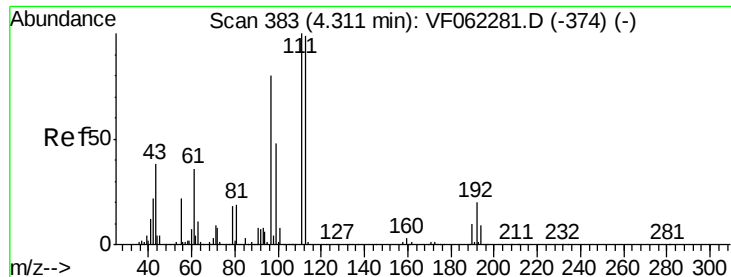
Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	75	Resp:	107298
Ion Ratio	Lower	Upper	
75	100		
110	36.7	17.9	53.8
77	32.0	24.6	36.8





#37

Ethyl Acetate

Concen: 21.616 ug/l

RT: 4.34 min Scan# 387

Delta R.T. 0.03 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion: 43 Resp: 46437

Ion Ratio Lower Upper

43 100

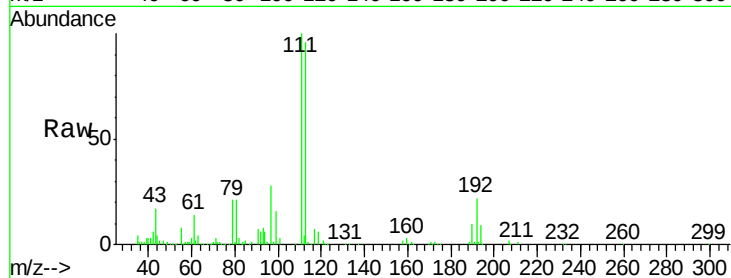
61 134.5 85.8 128.6#

70 5.0 7.3 10.9#

Manual Integrations
APPROVED

MMDadoda

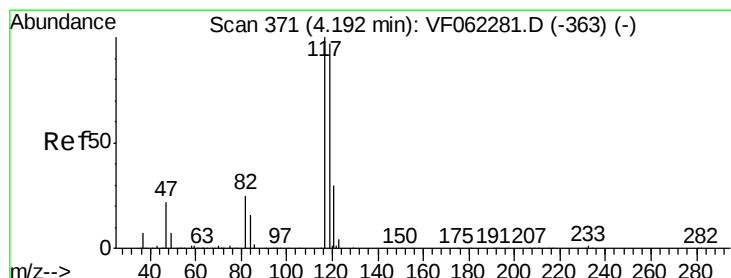
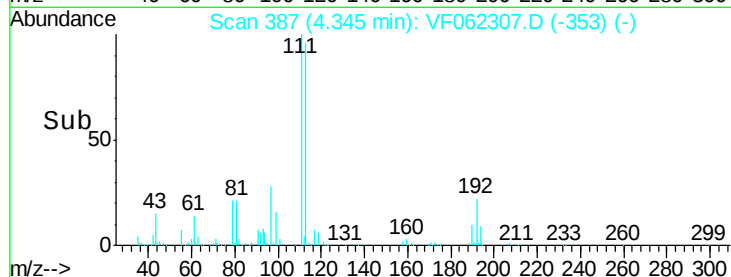
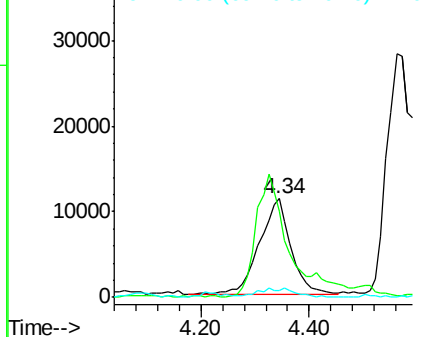
4/29/2019 3:59:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 21.793 ug/l m

RT: 4.22 min Scan# 374

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

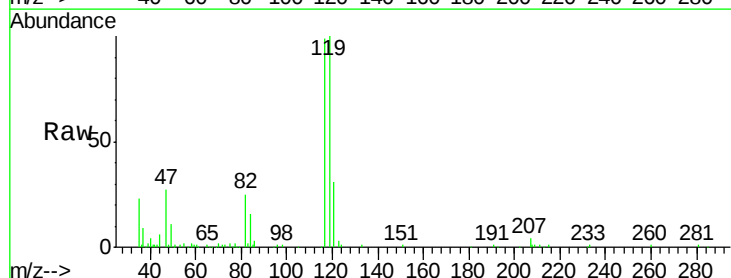
Tgt Ion: 117 Resp: 113130

Ion Ratio Lower Upper

117 100

119 101.1 77.3 115.9

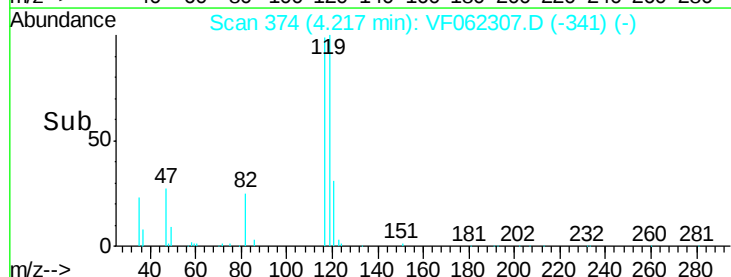
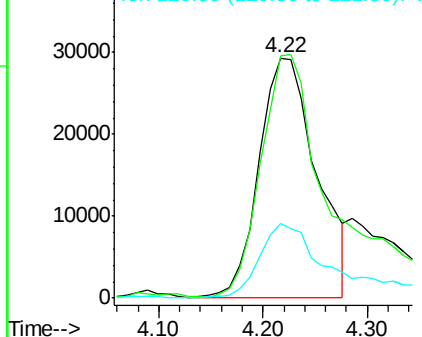
121 30.9 24.3 36.5

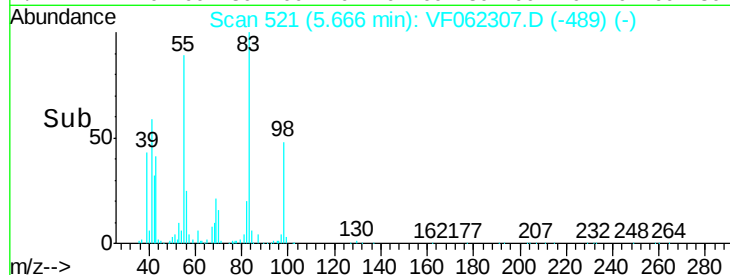
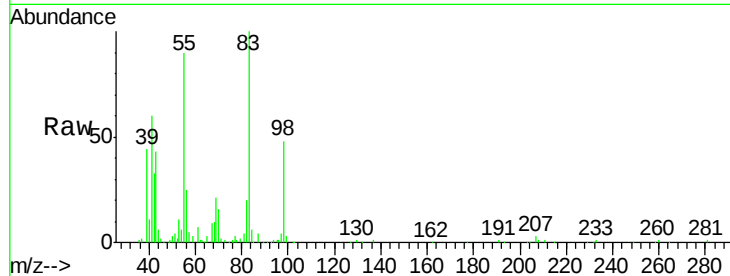
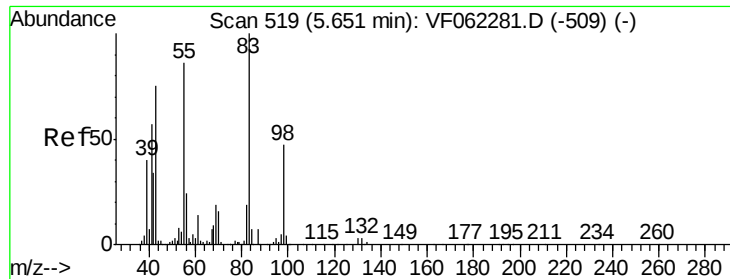


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





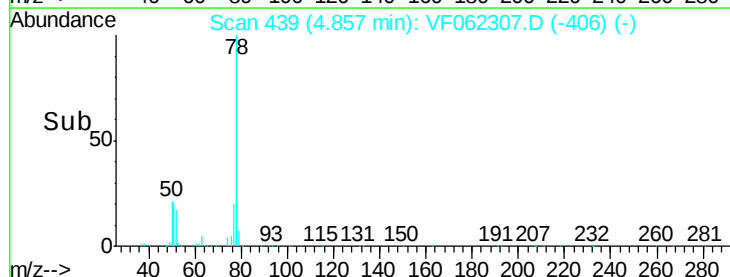
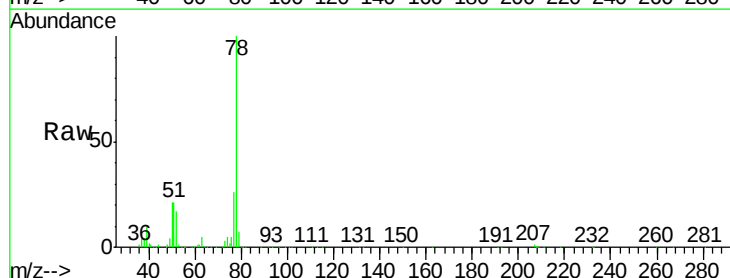
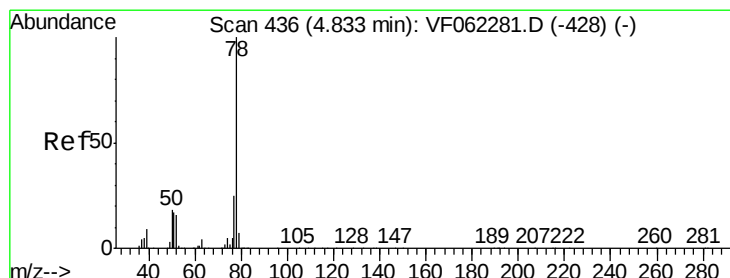
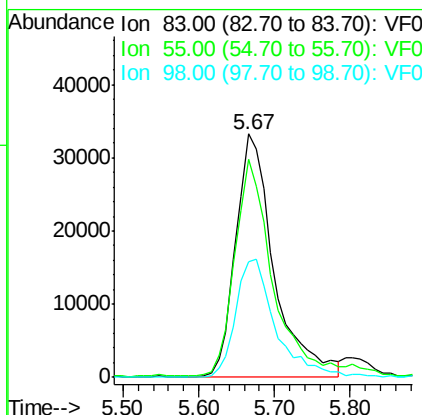
#39
Methvlcvclohexane
Concen: 19.769 ug/l
RT: 5.67 min Scan# 521
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tot Ion	83	Resp	117844
Ion Ratio	100	Lower	Upper
83	100		
55	89.1	68.7	103.1
98	47.6	37.4	56.2

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

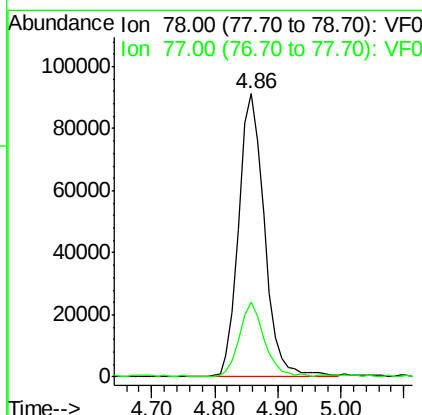
Manual Integrations
APPROVED

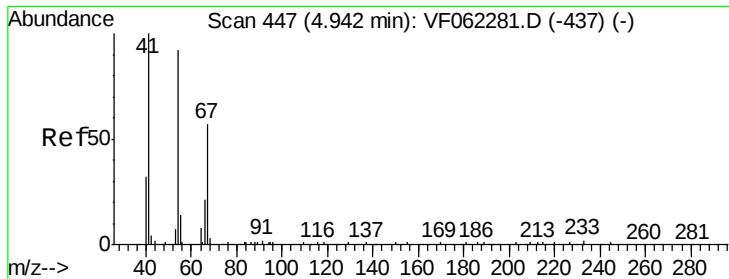
MMDadoda
4/29/2019 3:59:49 PM



#40
Benzene
Concen: 20.981 ug/l
RT: 4.86 min Scan# 439
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	78	Resp	258852
Ion Ratio	100	Lower	Upper
78	100		
77	26.2	19.7	29.5





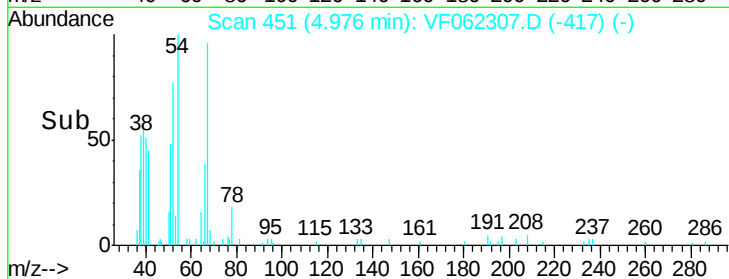
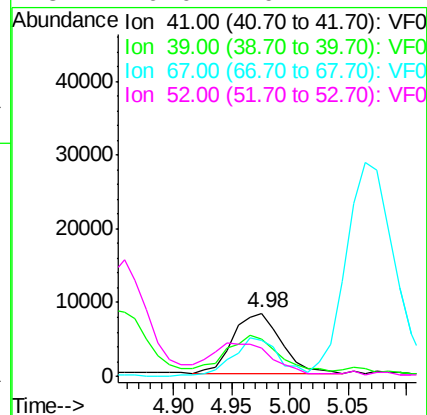
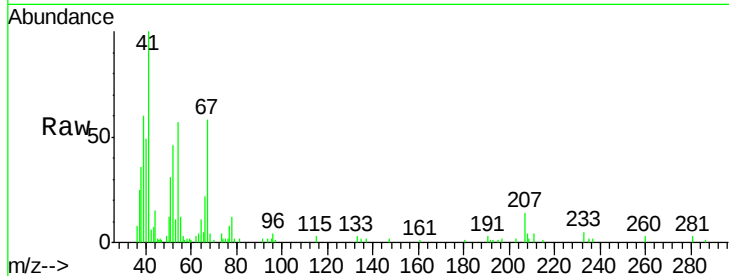
#41
Methacrylonitrile
Concen: 19.793 ug/l
RT: 4.98 min Scan# 451
Delta R.T. 0.03 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.4	47.3	70.9
67	61.2	41.3	61.9
52	0.0	49.4	74.2#

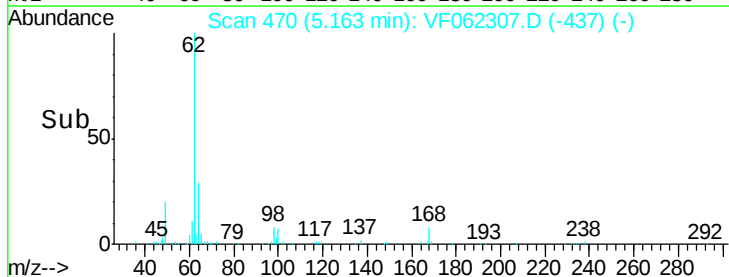
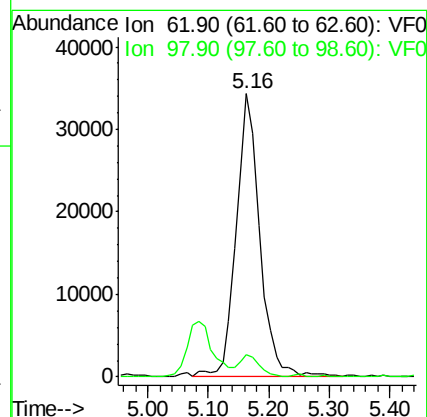
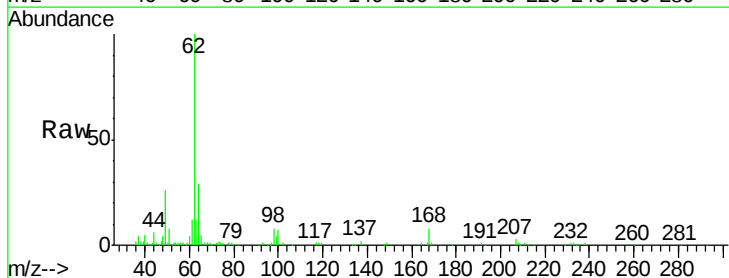
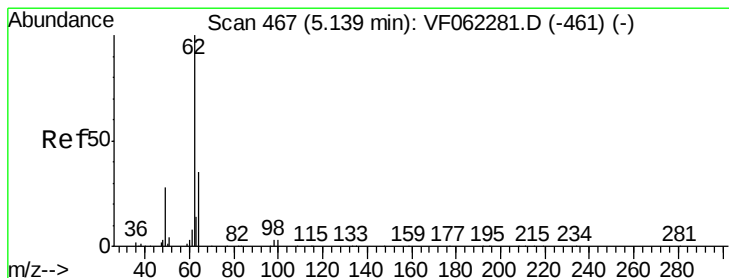
Manual Integrations
APPROVED

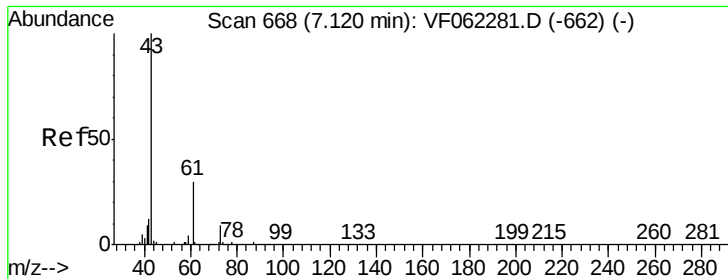
MMDadoda
4/29/2019 3:59:49 PM



#42
1,2-Dichloroethane
Concen: 23.886 ug/l
RT: 5.16 min Scan# 470
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.1	0.0	16.8





#43

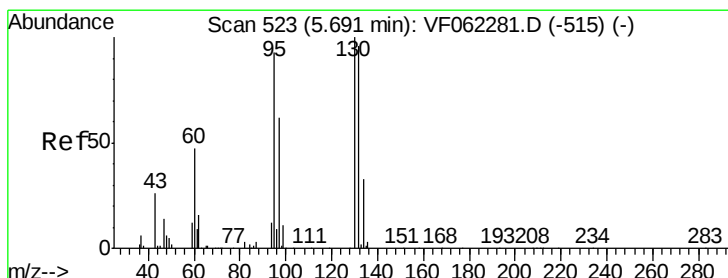
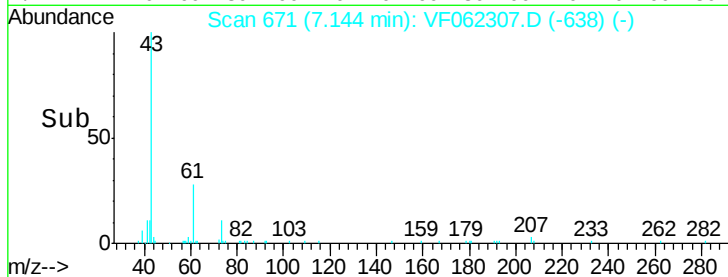
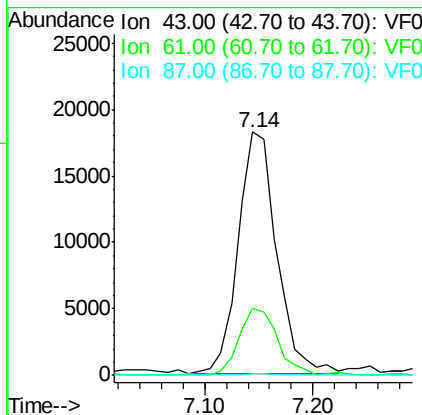
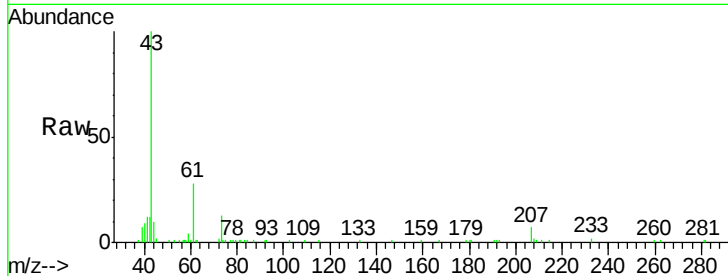
Isopropyl Acetate
 Concen: 20.216 ug/l
 RT: 7.14 min Scan# 671
 Delta R.T. 0.02 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.1	23.8	35.6
87	0.3	0.5	0.7

Manual Integrations
 APPROVED

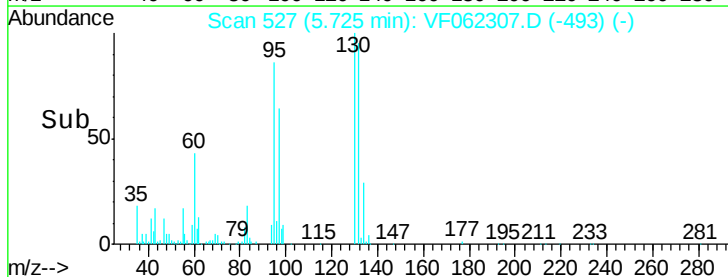
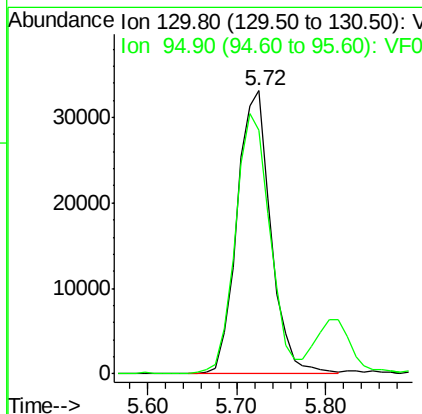
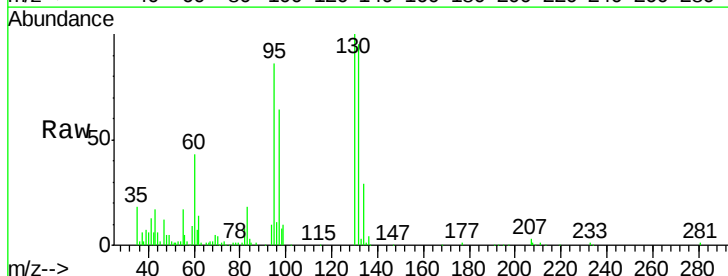
MMDadoda
 4/29/2019 3:59:49 PM

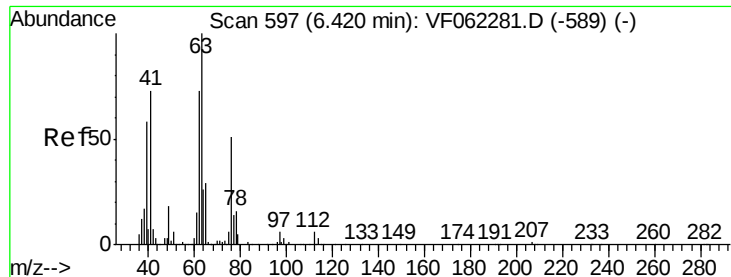


#44

Trichloroethene
 Concen: 20.823 ug/l
 RT: 5.72 min Scan# 527
 Delta R.T. 0.03 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
130	100		
95	86.0	0.0	186.4





#45

1,2-Dichloropropane

Concen: 19.976 ug/l

RT: 6.44 min Scan# 600

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

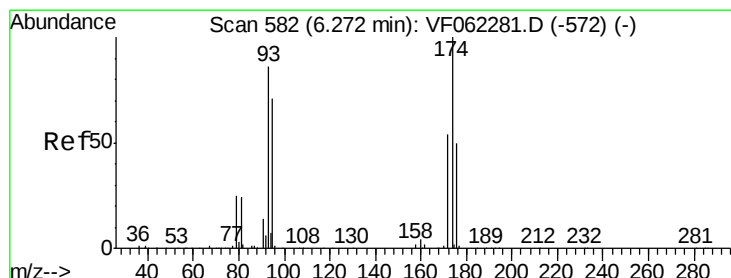
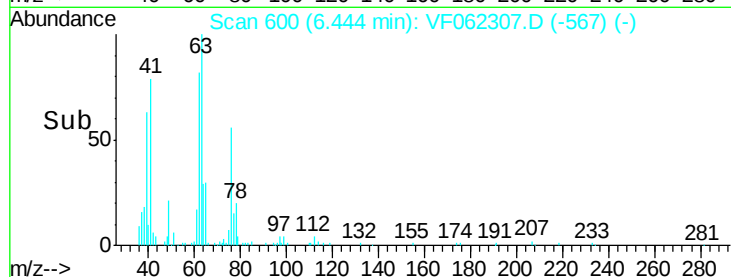
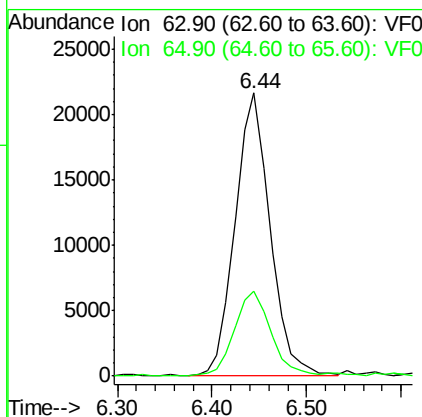
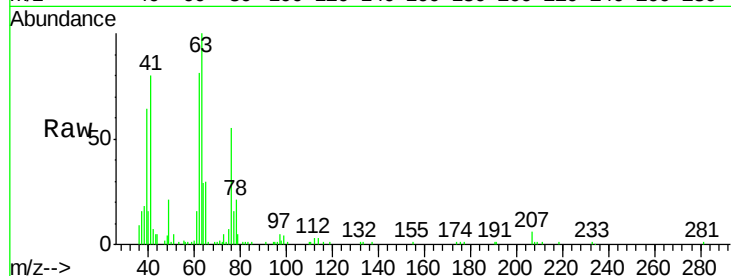
ClientSampleId :

VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	55565		
65	29.9		23.5	35.3

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#46

Dibromomethane

Concen: 21.952 ug/l

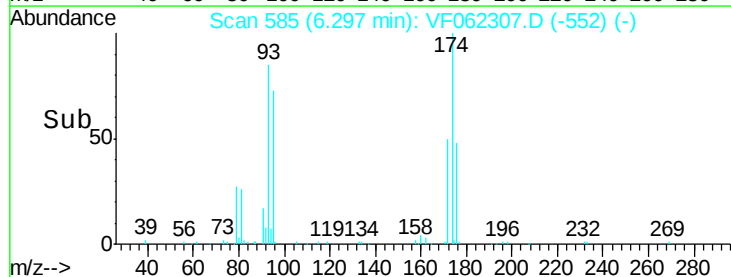
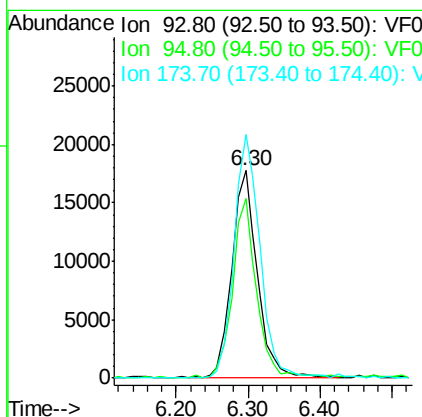
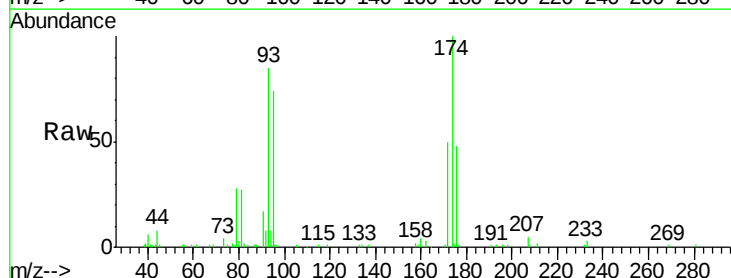
RT: 6.30 min Scan# 585

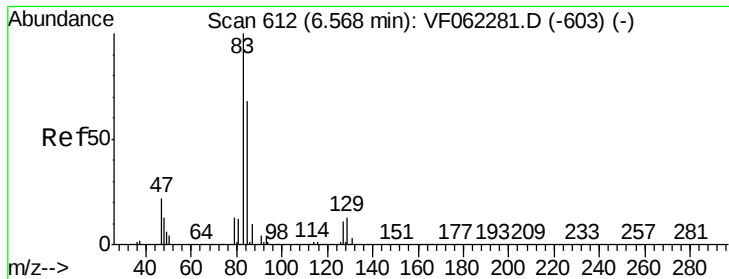
Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	44092		
95	82.6		66.2	99.4
174	118.8		94.9	142.3





#47

Bromodichloromethane

Concen: 22.274 ug/l

RT: 6.58 min Scan# 614

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

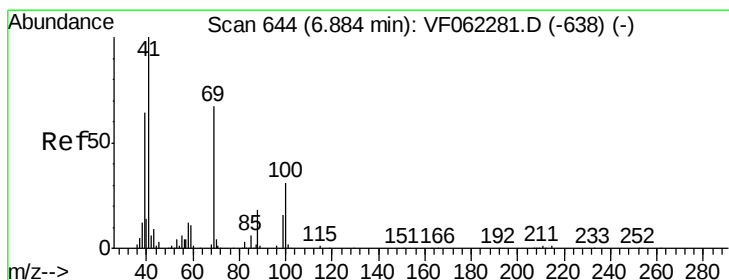
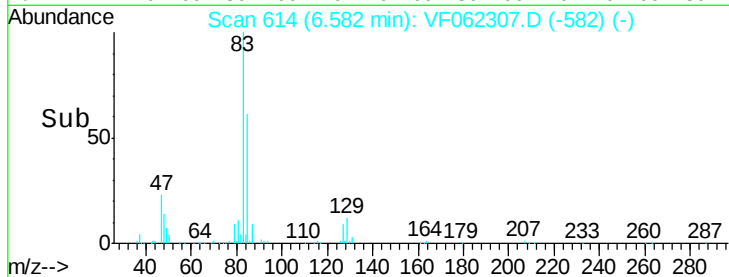
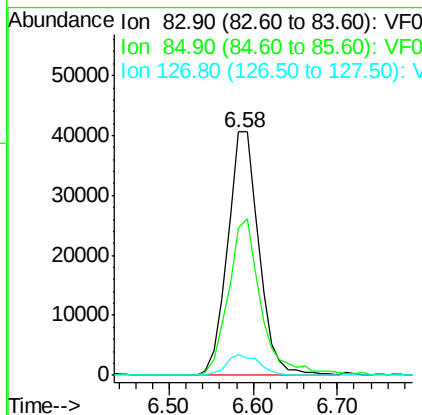
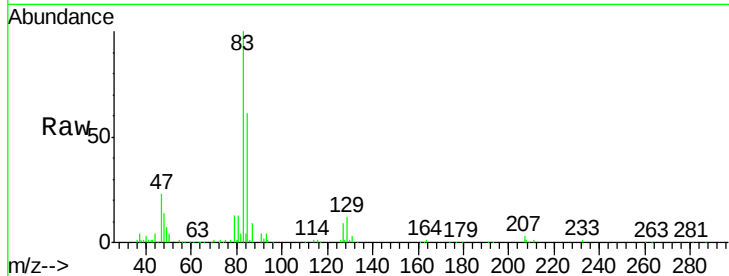
ClientSampleId :

VF0426SBS01

Tot Ion:	83	Resp:	105176
Ion Ratio	Lower	Upper	
83	100		
85	60.8	54.6	81.8
127	8.6	8.7	13.1#

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#48

Methyl methacrylate

Concen: 19.602 ug/l

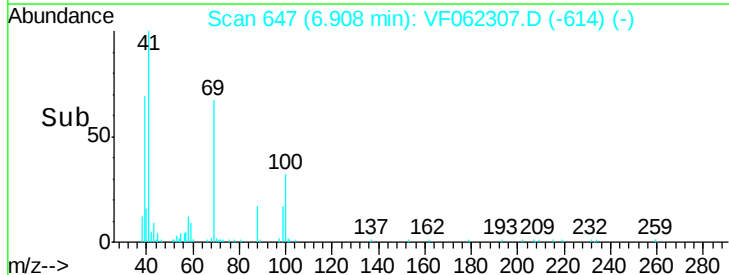
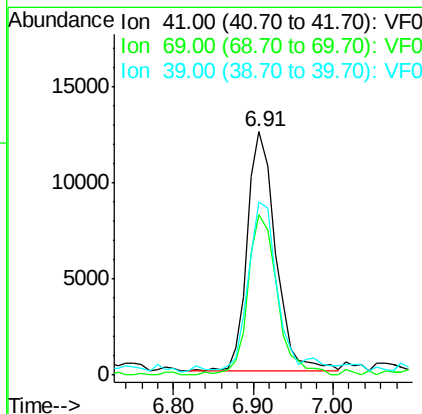
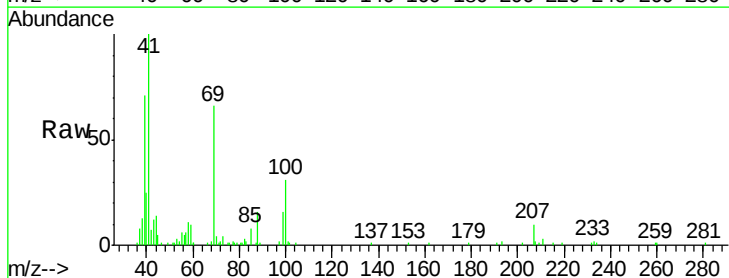
RT: 6.91 min Scan# 647

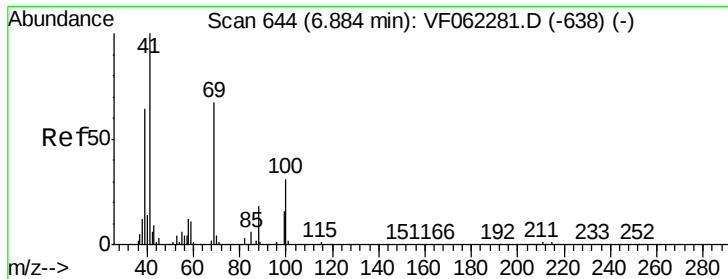
Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	41	Resp:	30851
Ion Ratio	Lower	Upper	
41	100		
69	68.7	53.4	80.2
39	70.8	50.9	76.3





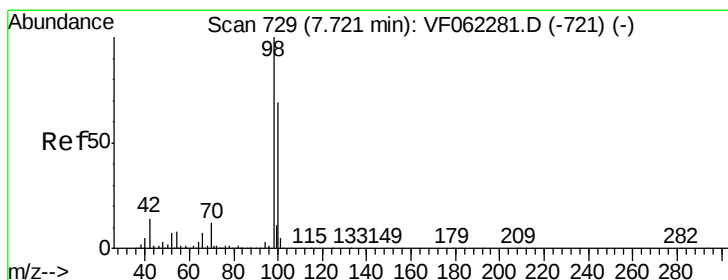
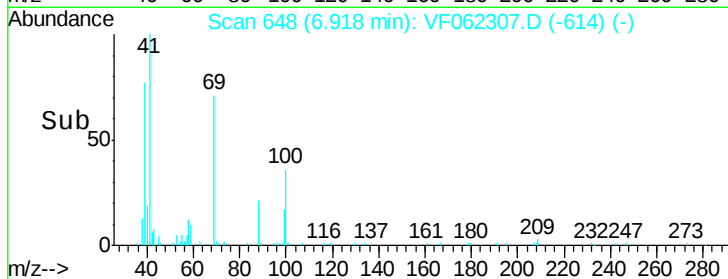
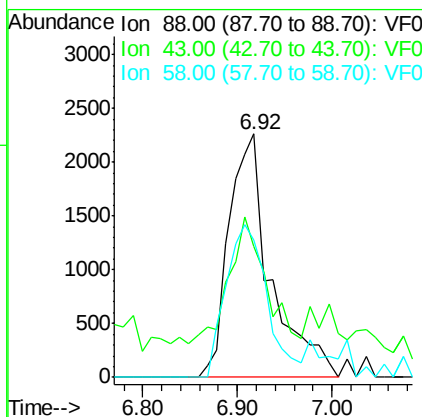
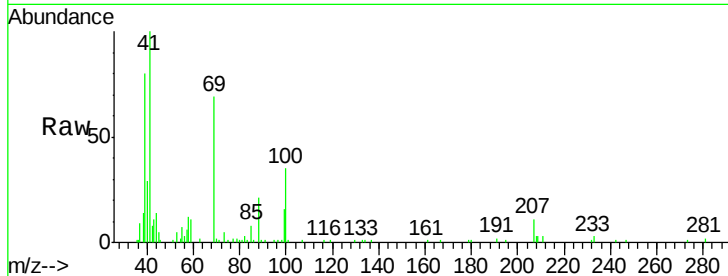
#49
1,4-Dioxane
Concen: 380.890 ug/l
RT: 6.92 min Scan# 648
Delta R.T. 0.03 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	45.3	34.2	51.4
58	61.6	50.7	76.1

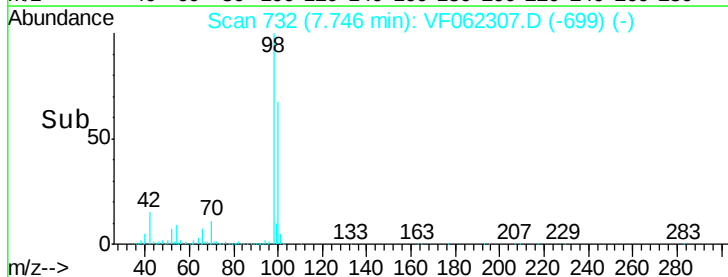
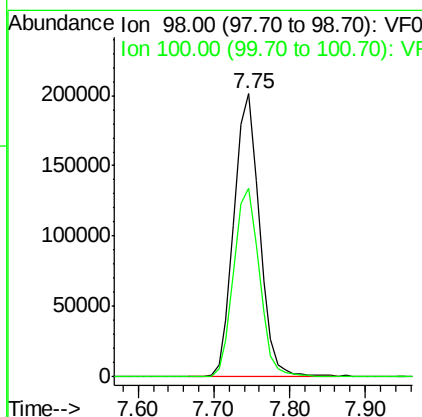
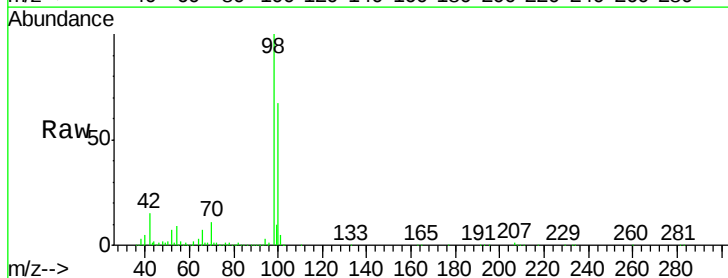
Manual Integrations
APPROVED

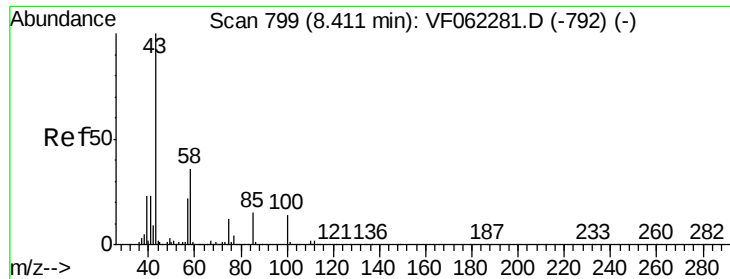
MMDadoda
4/29/2019 3:59:49 PM



#50
Toluene-d8
Concen: 47.008 ug/l
RT: 7.75 min Scan# 732
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.0	54.4	81.6





#51

4-Methyl-2-Pentanone

Concen: 100.954 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion: 43 Resp: 170880

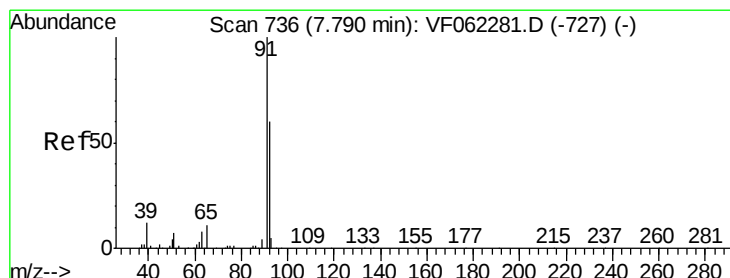
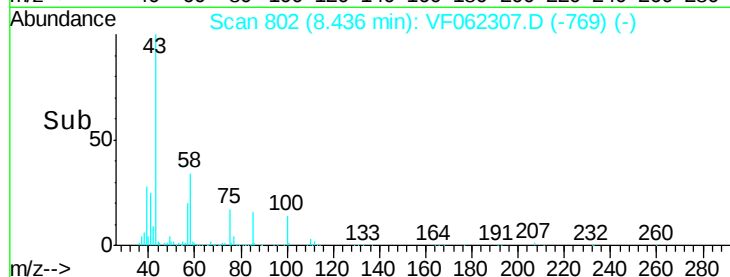
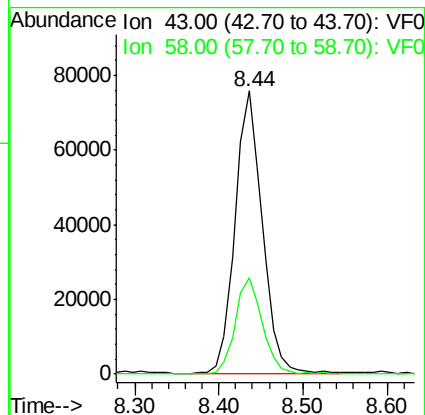
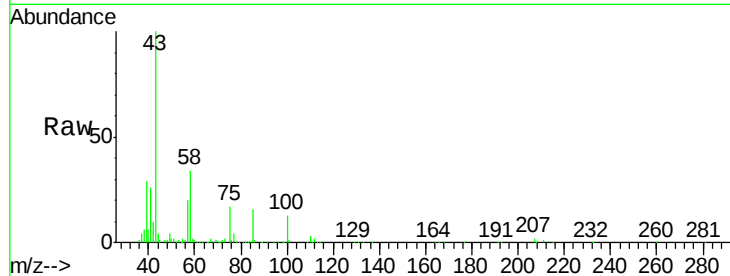
Ion Ratio Lower Upper

43 100

58 34.0 29.1 43.7

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#52

Toluene

Concen: 20.093 ug/l

RT: 7.81 min Scan# 739

Delta R.T. 0.02 min

Lab File: VF062307.D

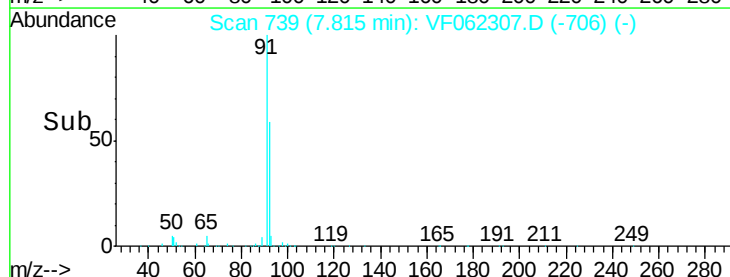
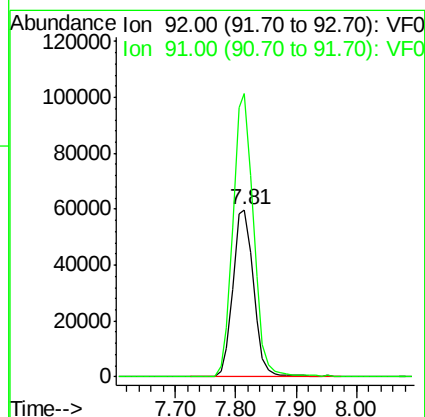
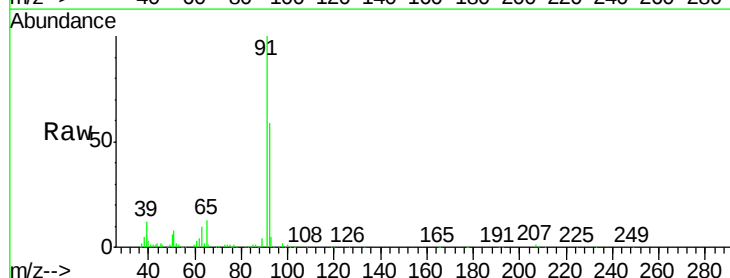
Acq: 26 Apr 2019 16:03

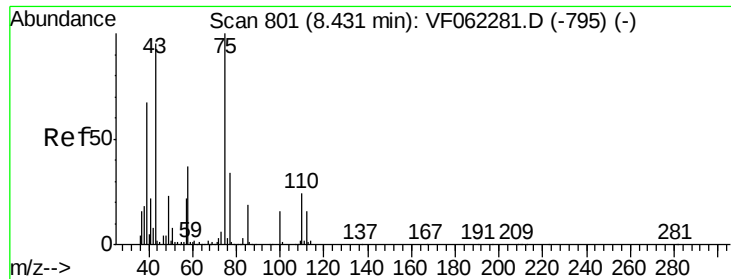
Tgt Ion: 92 Resp: 143043

Ion Ratio Lower Upper

92 100

91 167.4 132.5 198.7





#53

t-1,3-Dichloropropene

Concen: 21.357 ug/l

RT: 8.46 min Scan# 804

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tot Ion: 75 Resp: 74155

Ion Ratio Lower Upper

75 100

77 32.1 26.9 40.3

Instrument :

MSVOA_F

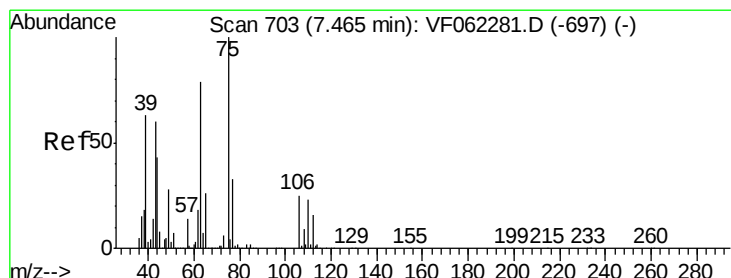
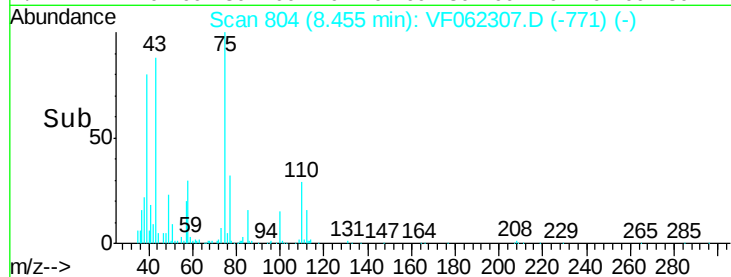
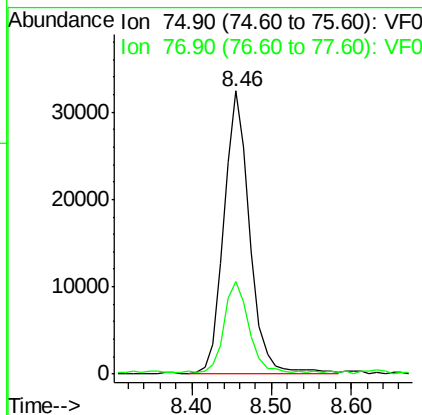
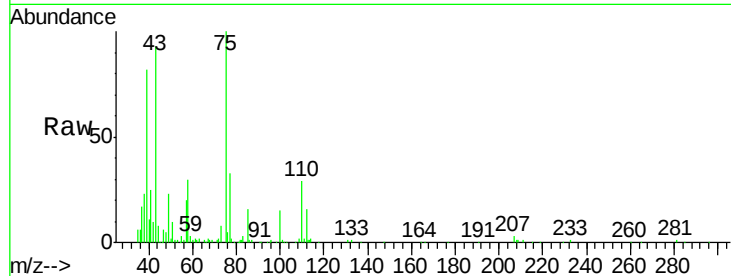
ClientSampled :

VF0426SBS01

Manual Integrations
APPROVED

MMDadoda

4/29/2019 3:59:49 PM



#54

cis-1,3-Dichloropropene

Concen: 20.735 ug/l

RT: 7.49 min Scan# 706

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

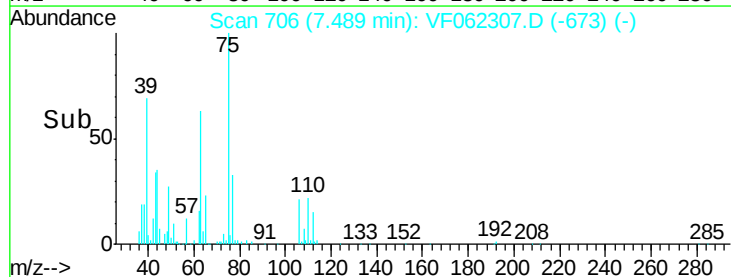
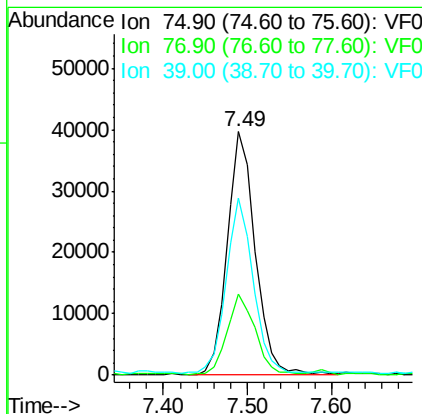
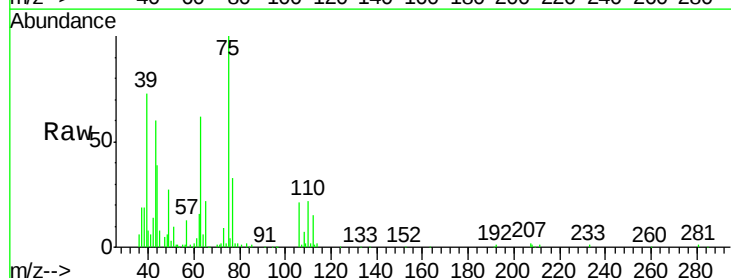
Tgt Ion: 75 Resp: 92232

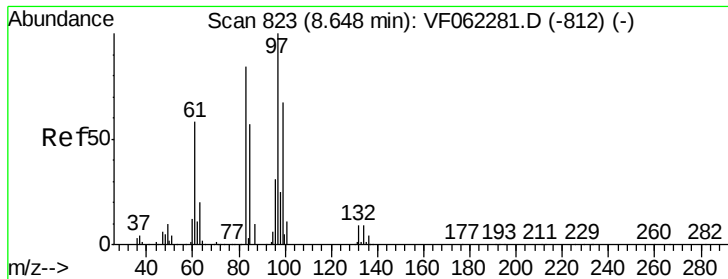
Ion Ratio Lower Upper

75 100

77 33.0 26.5 39.7

39 71.6 50.2 75.2





#55

1,1,2-Trichloroethane

Concen: 20.833 ug/l

RT: 8.66 min Scan# 825

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

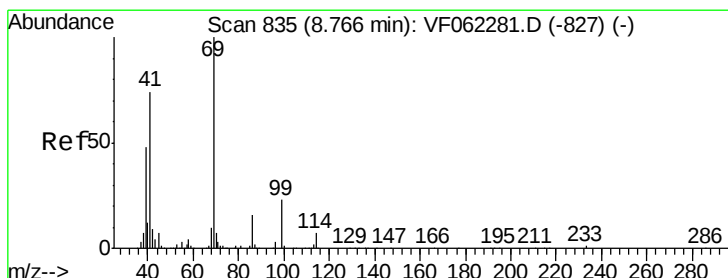
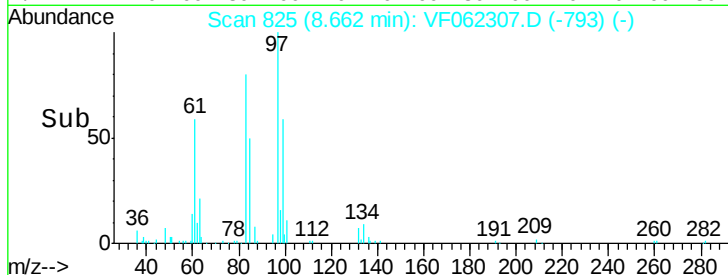
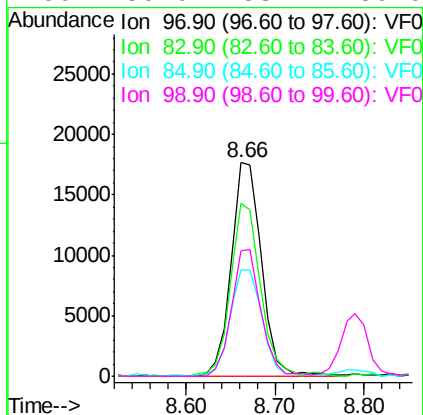
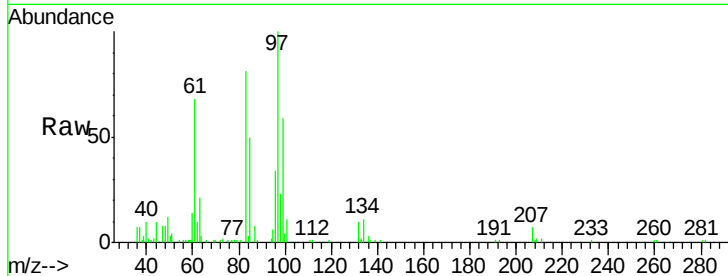
ClientSampleId :

VF0426SBS01

Tot Ion:	97	Resp:	42123
Ion	Ratio	Lower	Upper
97	100		
83	81.0	67.5	101.3
85	49.7	45.3	67.9
99	59.0	53.4	80.0

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#56

Ethyl methacrylate

Concen: 20.883 ug/l

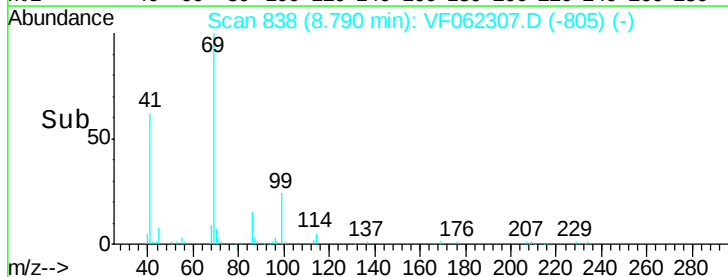
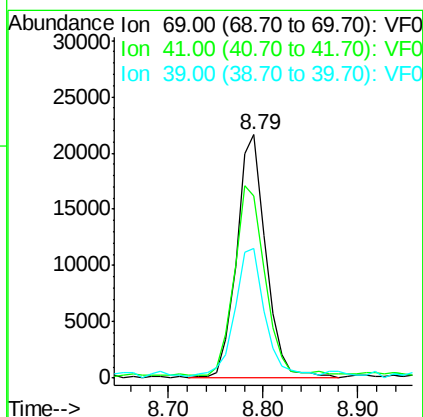
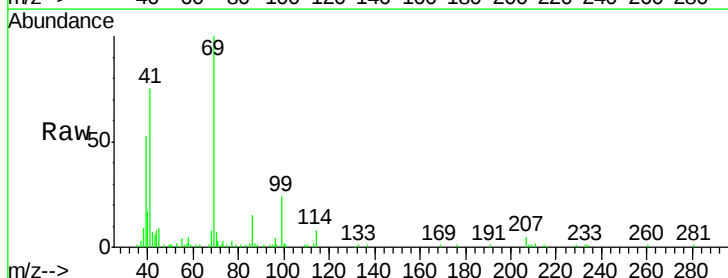
RT: 8.79 min Scan# 838

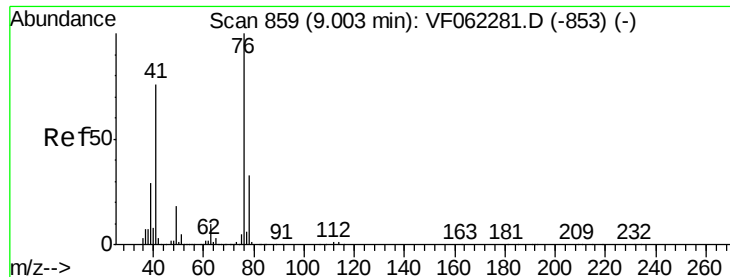
Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	69	Resp:	46386
Ion	Ratio	Lower	Upper
69	100		
41	81.5	61.5	92.3
39	54.0	37.9	56.9





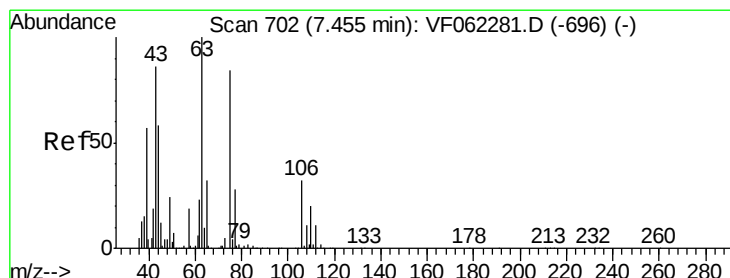
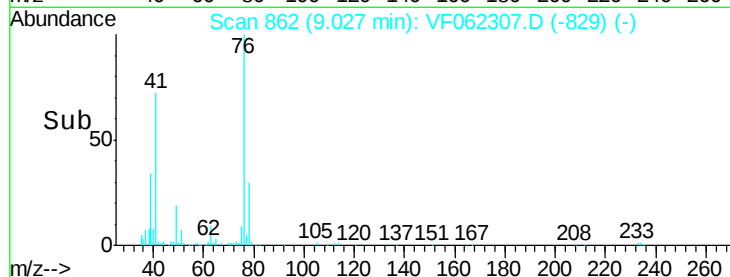
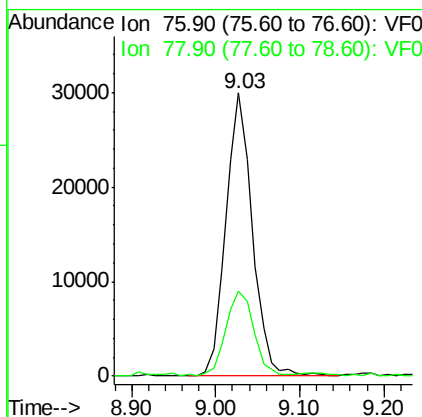
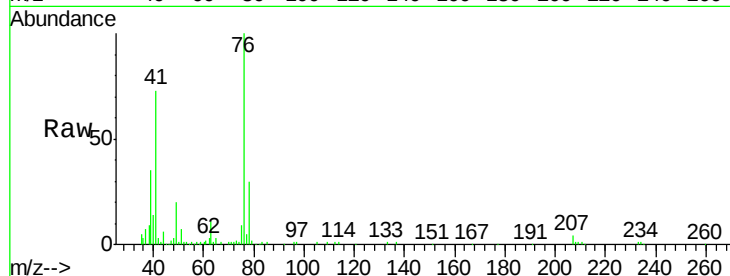
#57
 1,3-Dichloropropane
 Concen: 20.576 ug/l
 RT: 9.03 min Scan# 862
 Delta R.T. 0.02 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	27.0	40.6

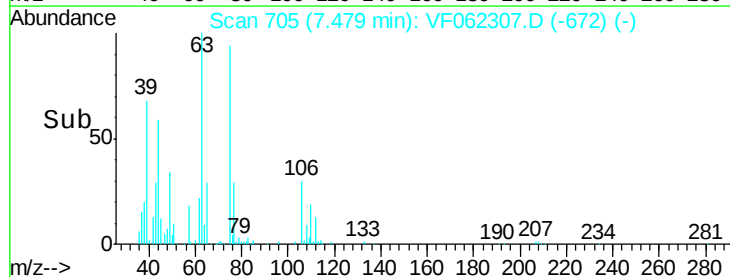
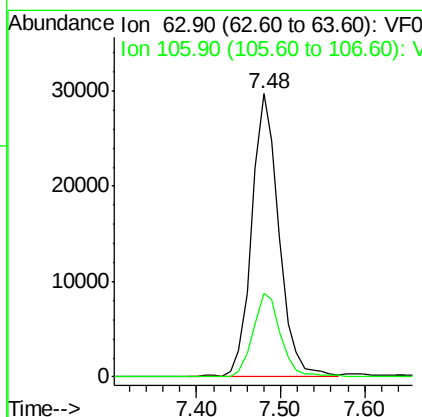
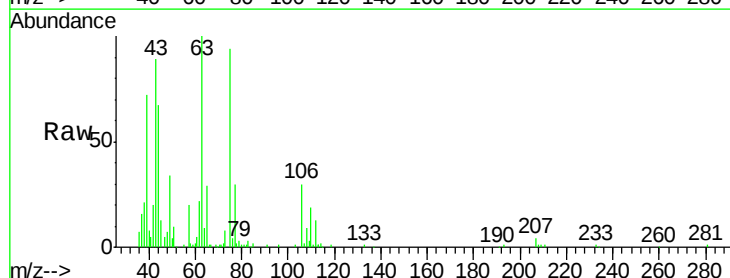
Manual Integrations
 APPROVED

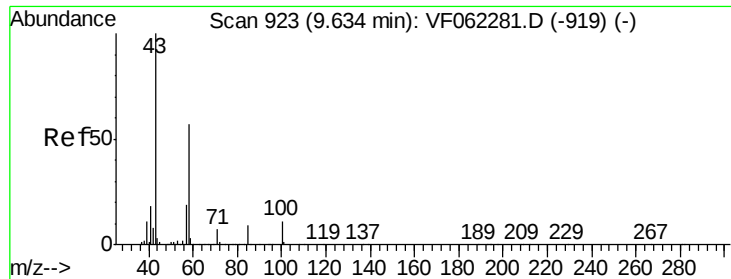
MMDadoda
 4/29/2019 3:59:49 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.139 ug/l
 RT: 7.48 min Scan# 705
 Delta R.T. 0.02 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.8	24.7	37.1





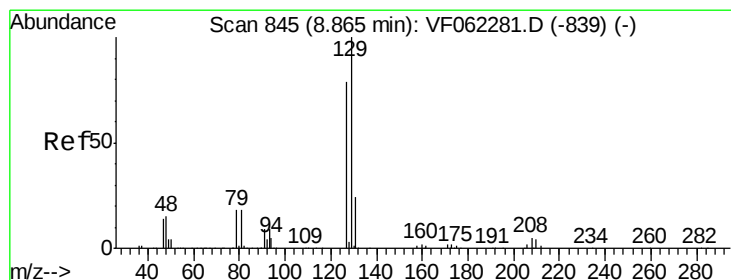
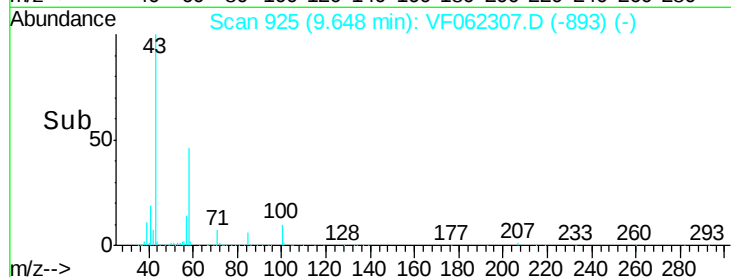
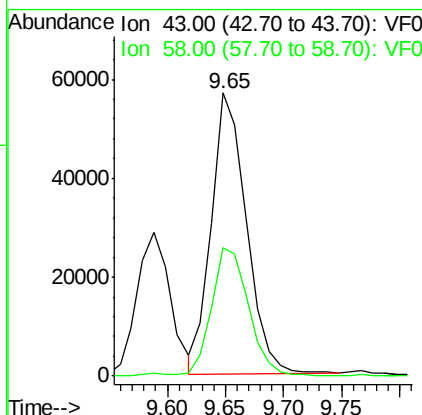
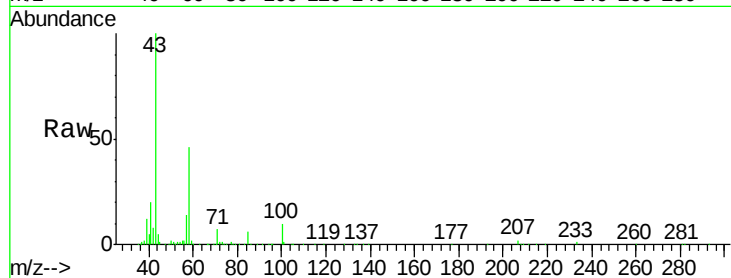
#59
2-Hexanone
Concen: 106.769 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion: 43 Resp: 118716
Ion Ratio Lower Upper
43 100
58 47.8 24.9 74.7

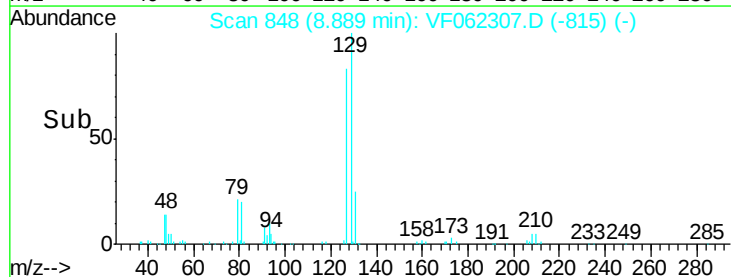
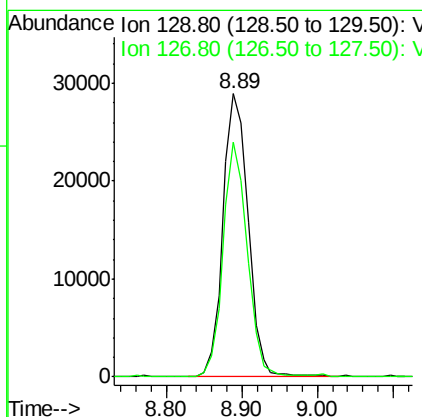
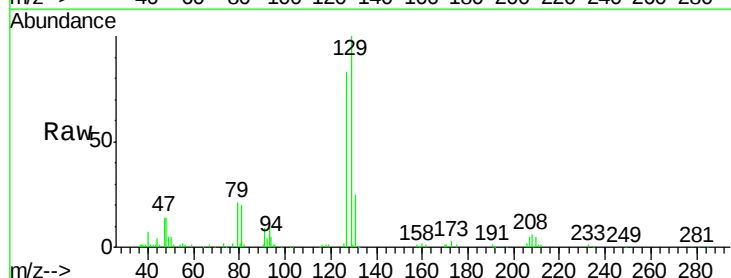
Manual Integrations
APPROVED

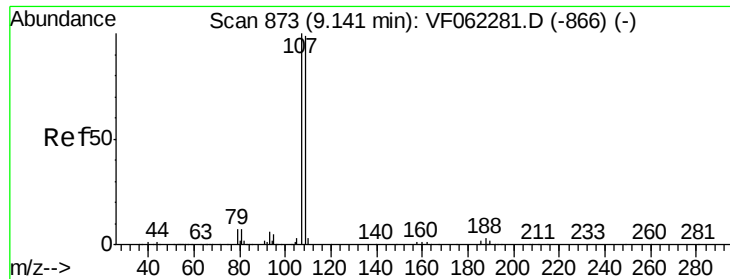
MMDadoda
4/29/2019 3:59:49 PM



#60
Dibromochloromethane
Concen: 20.348 ug/l
RT: 8.89 min Scan# 848
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion:129 Resp: 66774
Ion Ratio Lower Upper
129 100
127 80.4 38.8 116.4





#61

1,2-Dibromoethane

Concen: 20.640 ug/l

RT: 9.17 min Scan# 876

Delta R.T. 0.02 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion:107 Resp: 48299

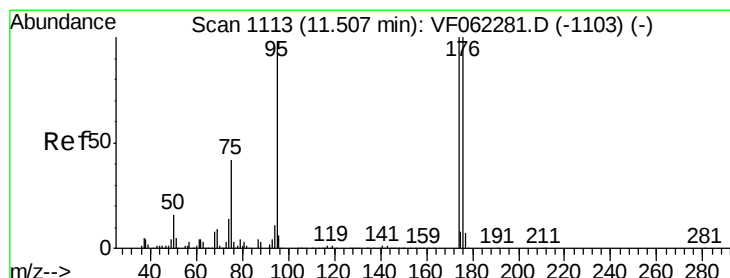
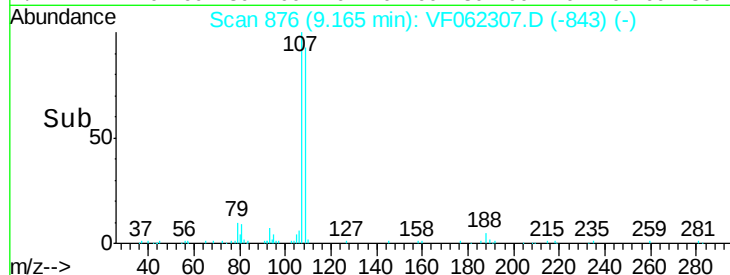
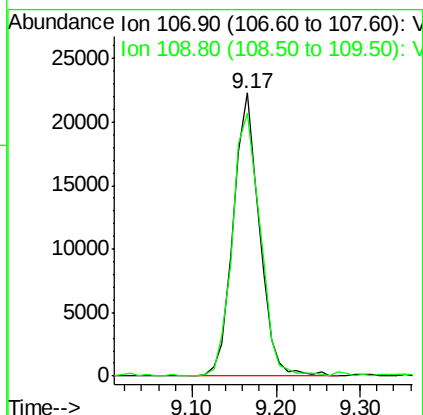
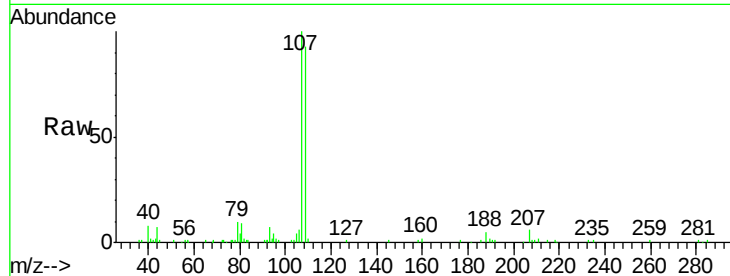
Ion Ratio Lower Upper

107 100

109 99.4 78.7 118.1

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#62

4-Bromofluorobenzene

Concen: 46.075 ug/l

RT: 11.52 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

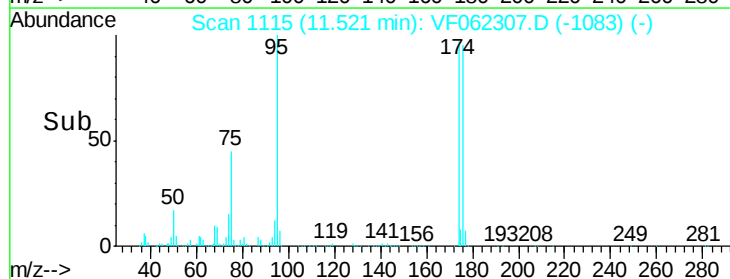
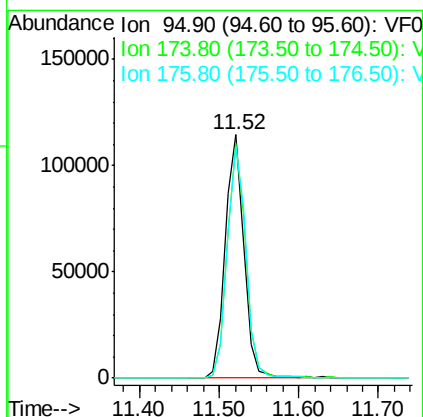
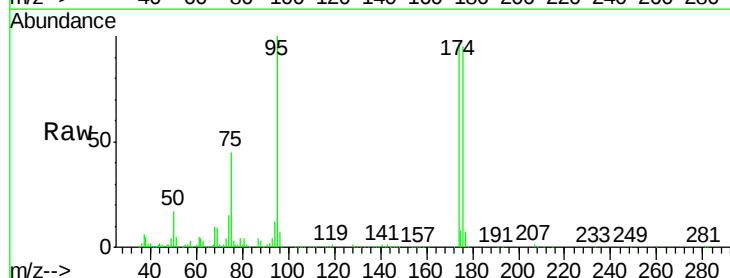
Tgt Ion: 95 Resp: 190373

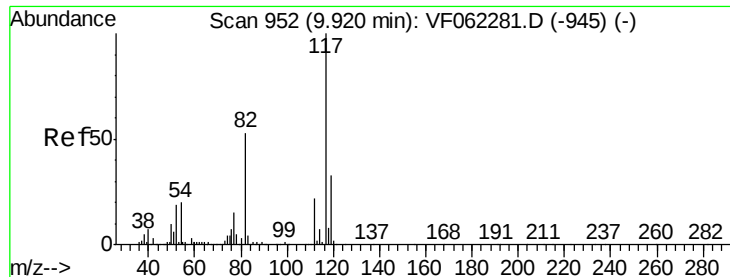
Ion Ratio Lower Upper

95 100

174 95.8 0.0 185.2

176 96.4 0.0 184.8





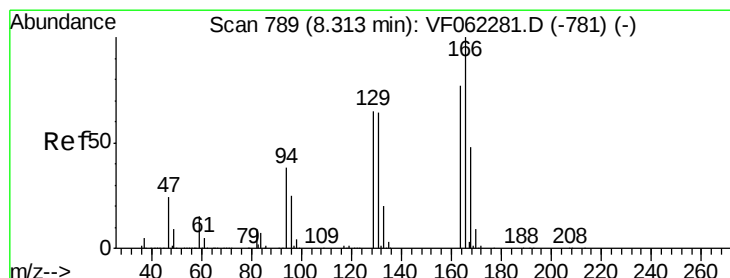
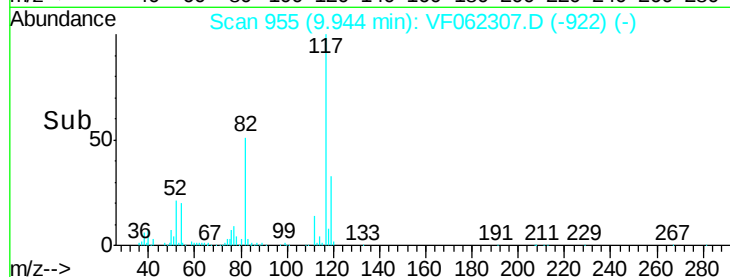
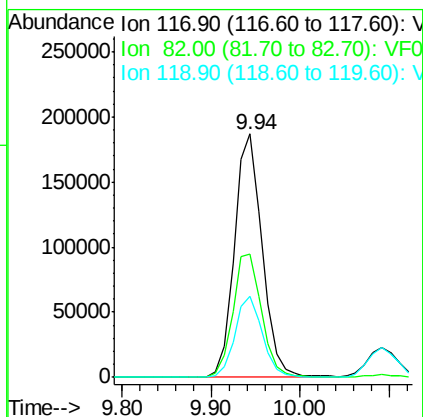
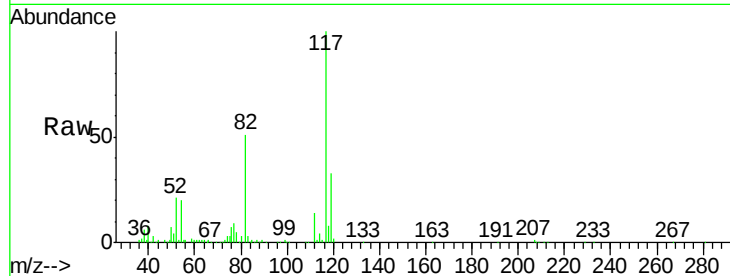
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.94 min Scan# 955
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	406816		
82	50.8		42.6	64.0
119	33.5		26.1	39.1

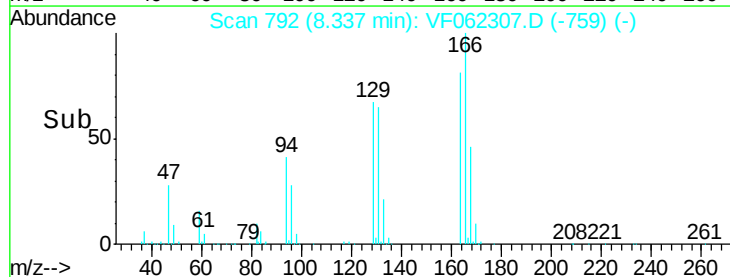
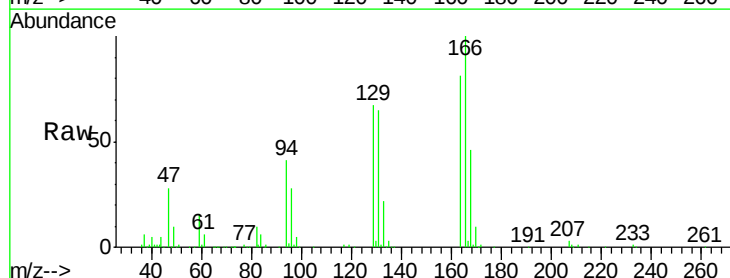
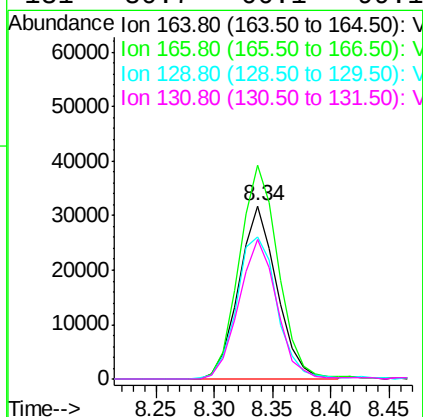
Manual Integrations
APPROVED

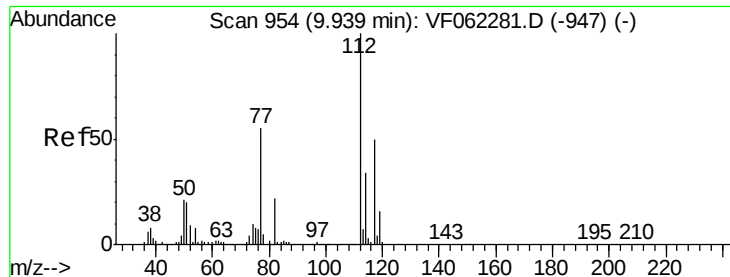
MMDadoda
4/29/2019 3:59:49 PM



#64
Tetrachloroethene
Concen: 21.218 ug/l
RT: 8.34 min Scan# 792
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	72199		
166	123.4		103.5	155.3
129	82.2		67.6	101.4
131	80.7		66.1	99.1





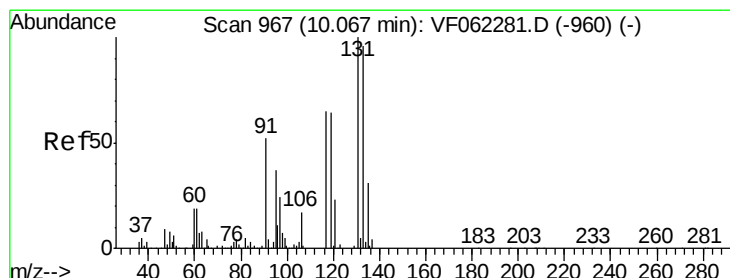
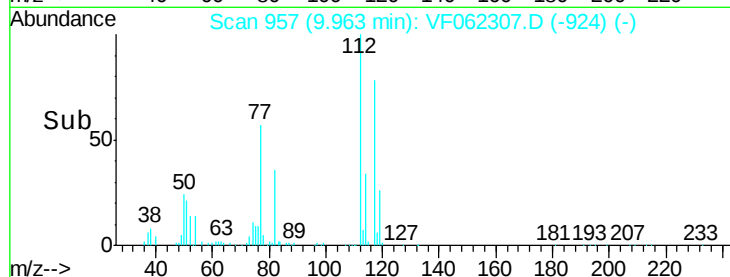
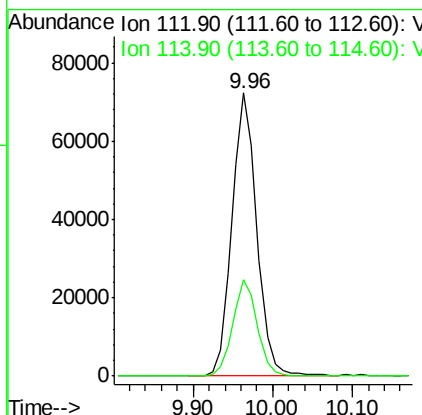
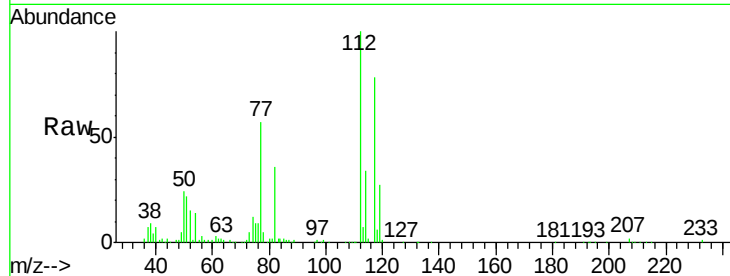
#65
Chlorobenzene
Concen: 21.208 ug/l
RT: 9.96 min Scan# 957
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	157665		
114	34.1	27.0	40.6	

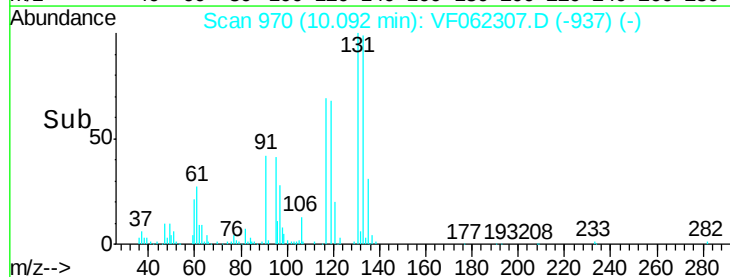
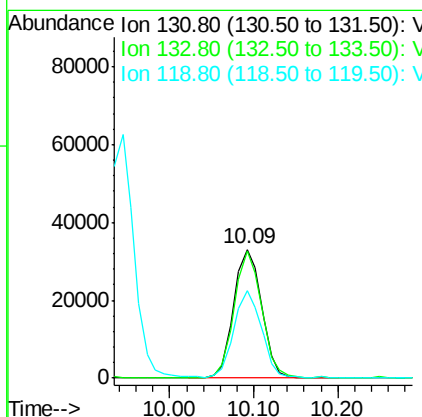
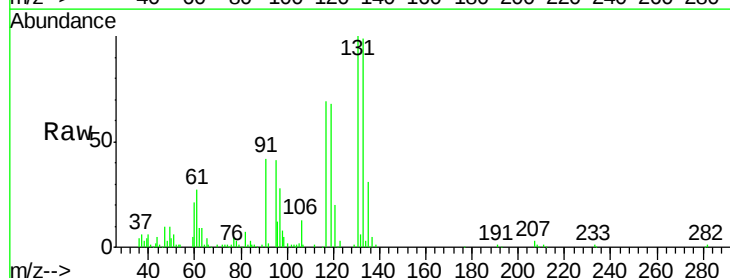
Manual Integrations
APPROVED

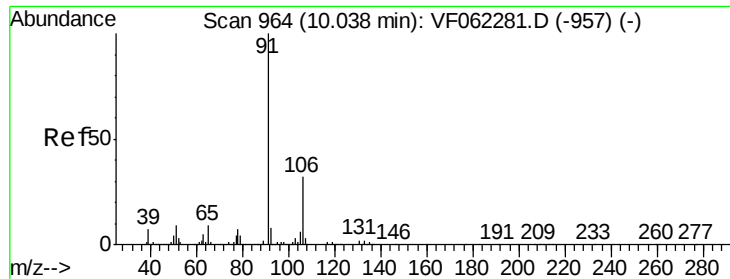
MMDadoda
4/29/2019 3:59:49 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.907 ug/l
RT: 10.09 min Scan# 970
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	76709		
133	97.7	48.5	145.5	
119	66.7	32.9	98.7	





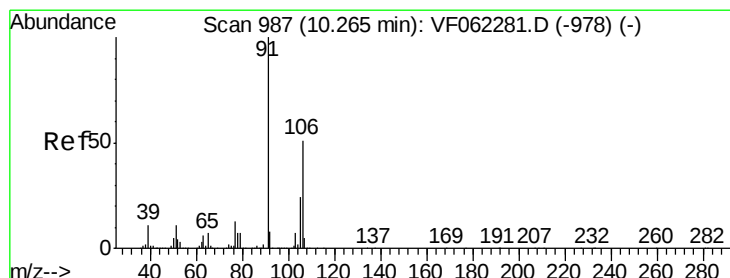
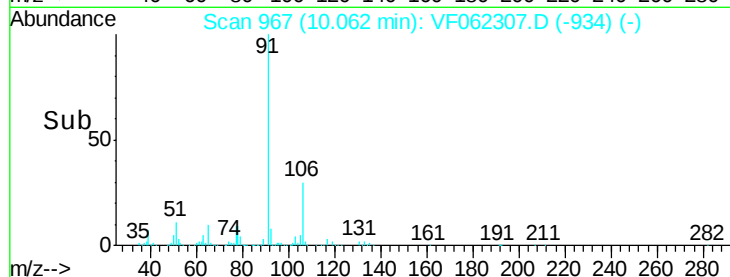
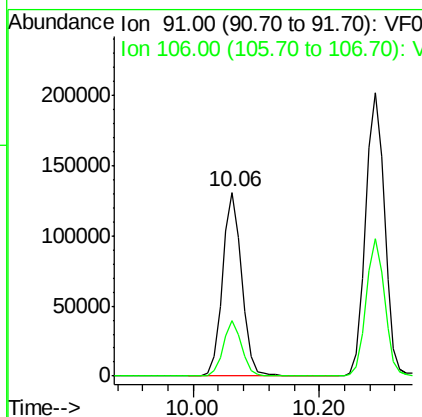
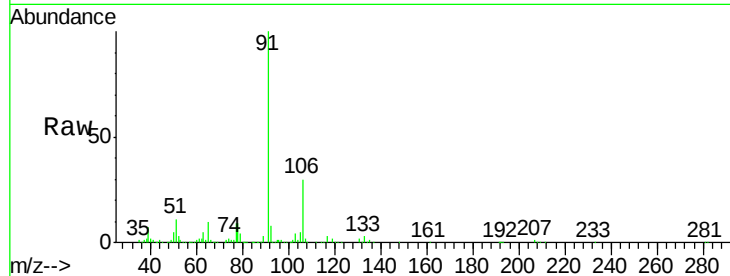
#67
Ethyl Benzene
Concen: 21.559 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion: 91 Resp: 278639
Ion Ratio Lower Upper
91 100
106 29.9 25.6 38.4

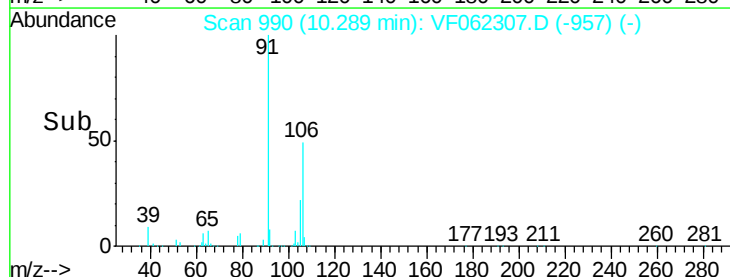
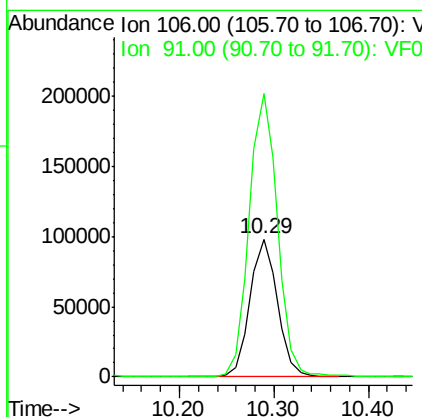
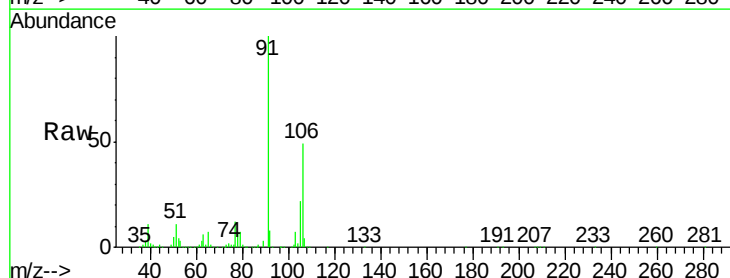
Manual Integrations
APPROVED

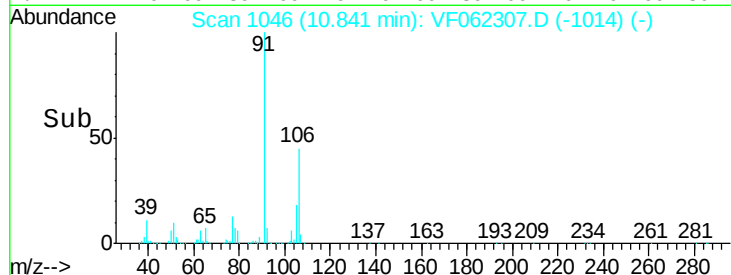
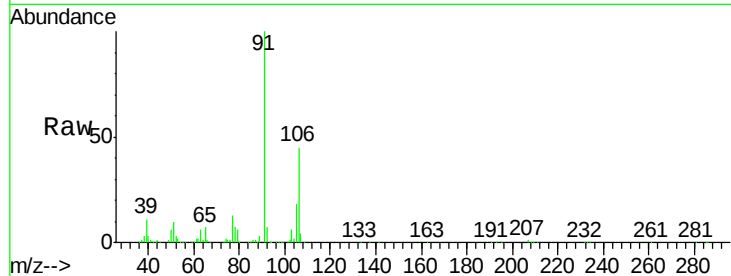
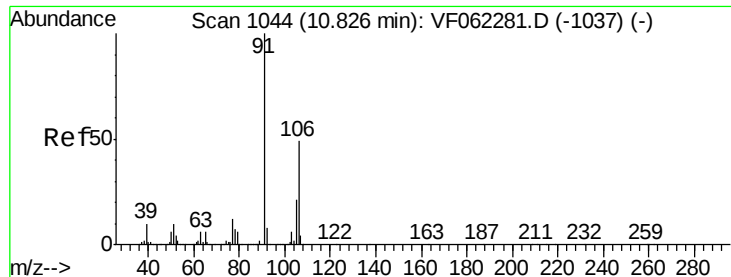
MMDadoda
4/29/2019 3:59:49 PM



#68
m/p-Xylenes
Concen: 41.279 ug/l
RT: 10.29 min Scan# 990
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion: 106 Resp: 198625
Ion Ratio Lower Upper
106 100
91 211.4 158.3 237.5





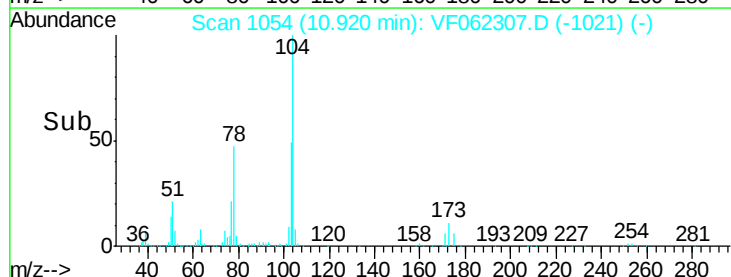
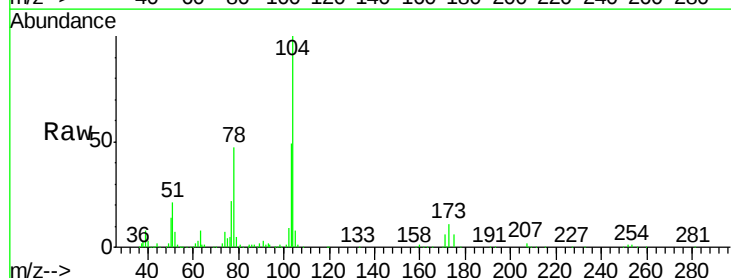
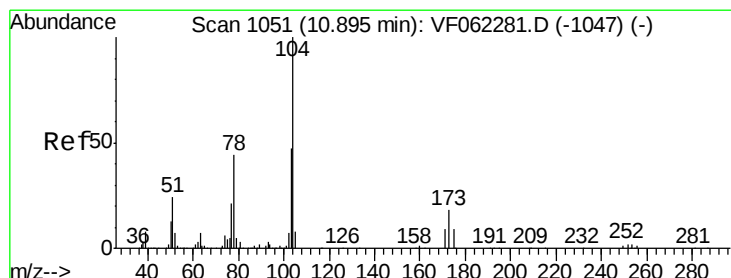
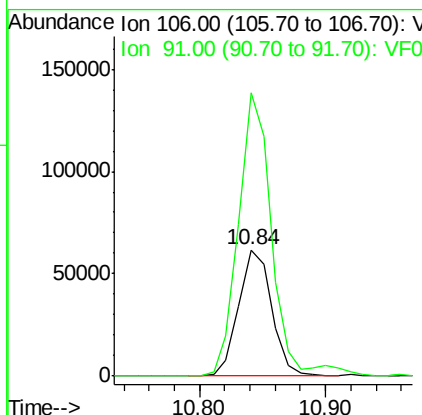
#69
o-Xylene
Concen: 21.056 ug/l
RT: 10.84 min Scan# 1046
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tot Ion:106 Resp: 113194
Ion Ratio Lower Upper
106 100
91 217.3 110.0 330.0

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

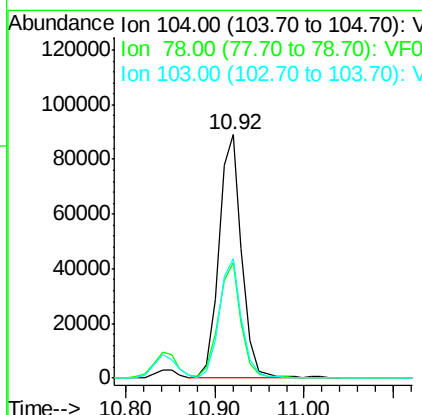
Manual Integrations
APPROVED

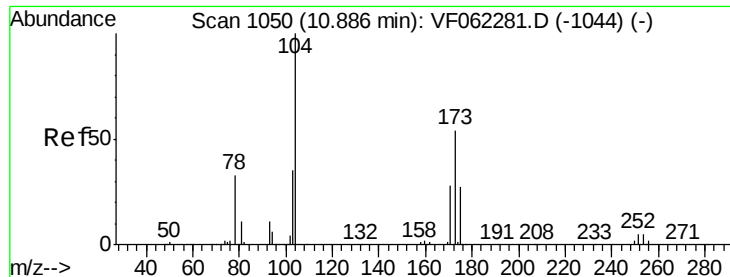
MMDadoda
4/29/2019 3:59:49 PM



#70
Styrene
Concen: 20.338 ug/l
RT: 10.92 min Scan# 1054
Delta R.T. 0.02 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion:104 Resp: 158052
Ion Ratio Lower Upper
104 100
78 46.8 35.9 53.9
103 49.1 37.5 56.3





#71

Bromoform

Concen: 21.095 ug/l

RT: 10.90 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion:173 Resp: 41580

Ion Ratio Lower Upper

173 100

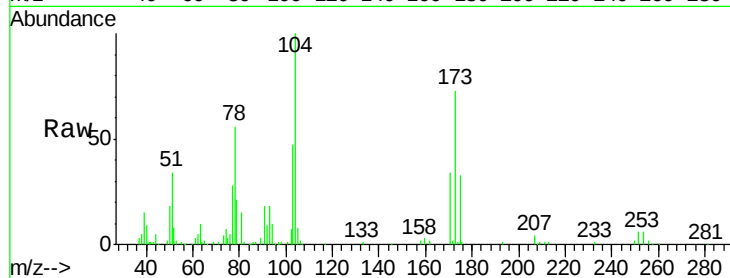
175 46.6 25.3 75.9

254 0.0 0.1 0.1#

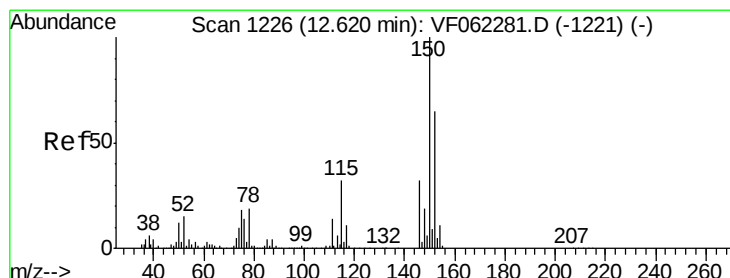
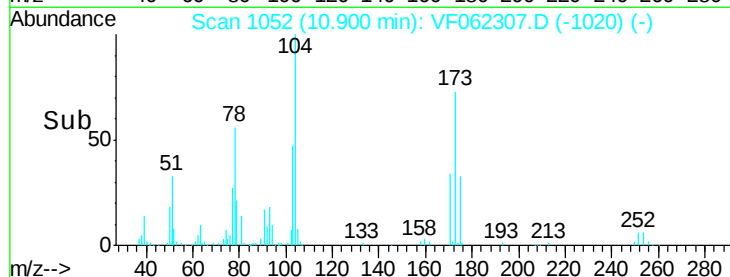
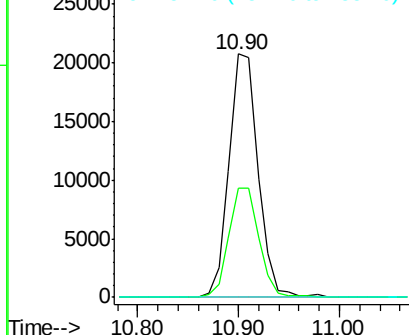
Manual Integrations
APPROVED

MMDadoda

4/29/2019 3:59:49 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

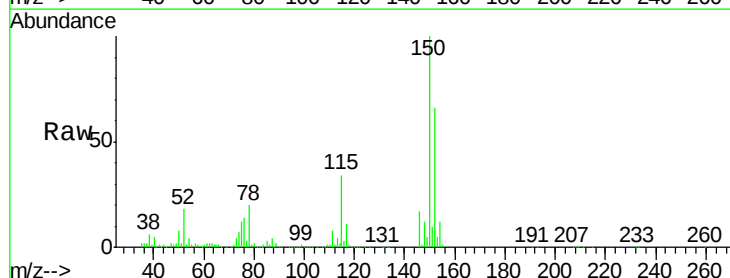
Tgt Ion:152 Resp: 241425

Ion Ratio Lower Upper

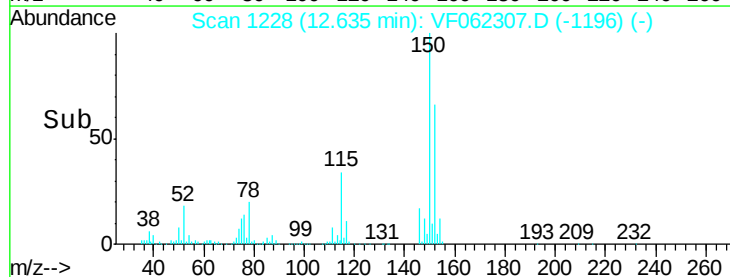
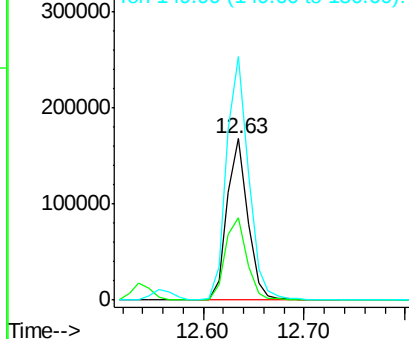
152 100

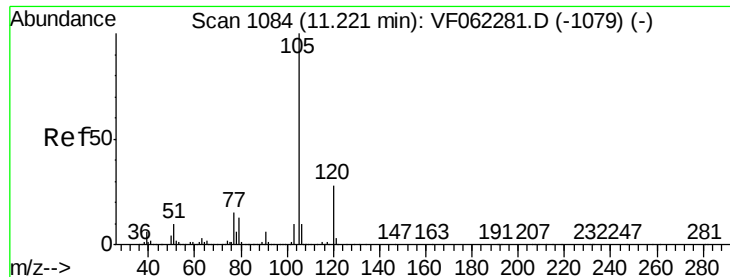
115 53.6 25.6 76.8

150 159.8 0.0 330.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.845 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion:105 Resp: 344805

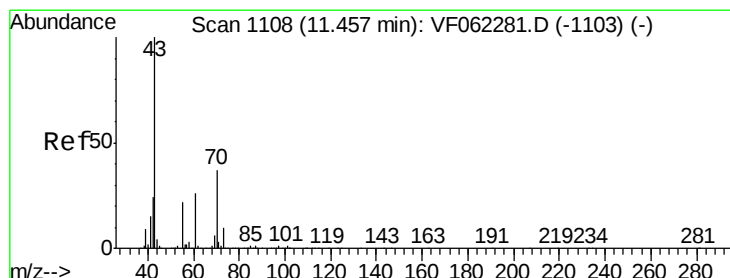
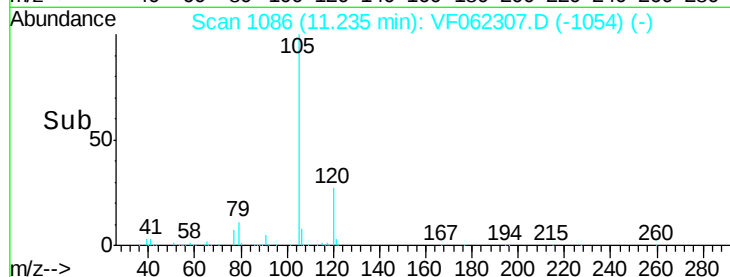
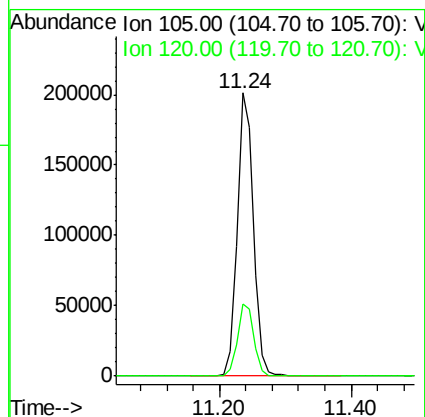
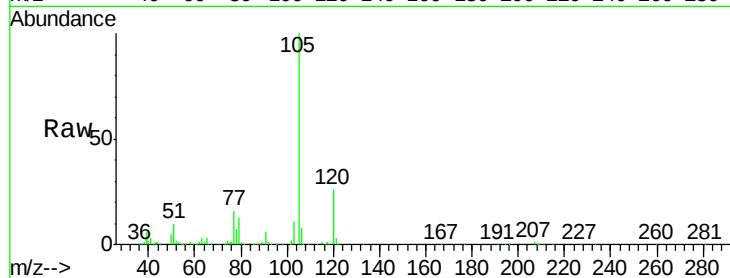
Ion Ratio Lower Upper

105 100

120 25.9 12.4 37.2

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#74

N-ethyl acetate

Concen: 19.933 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion: 43 Resp: 75968

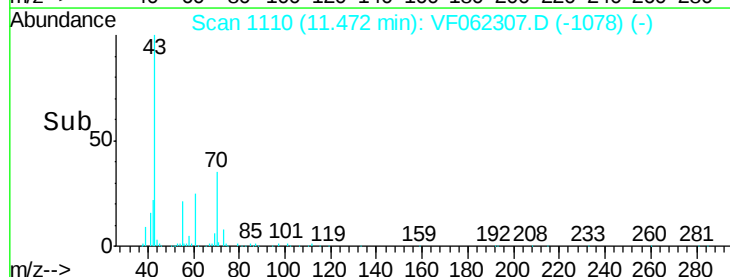
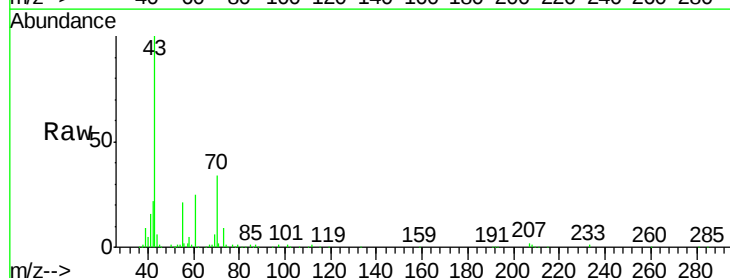
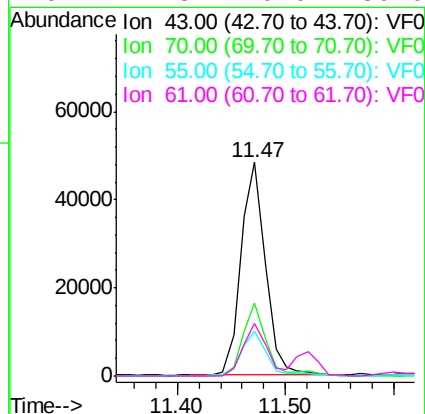
Ion Ratio Lower Upper

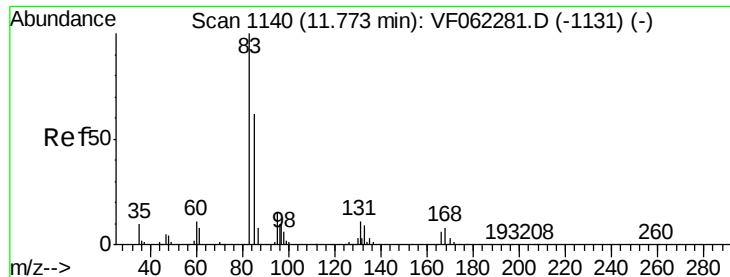
43 100

70 34.1 27.8 41.8

55 22.4 16.6 24.8

61 24.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.673 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

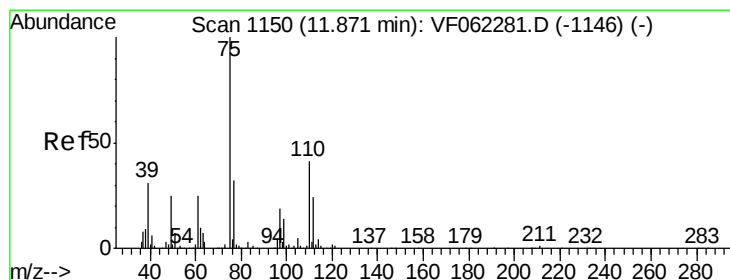
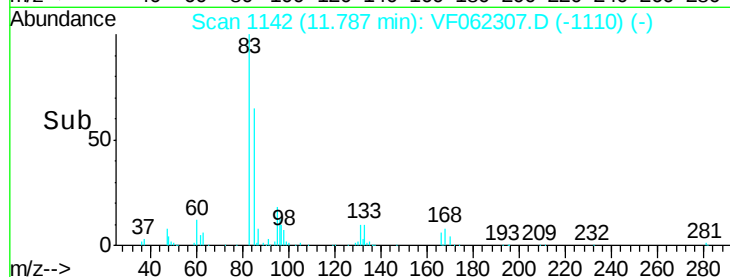
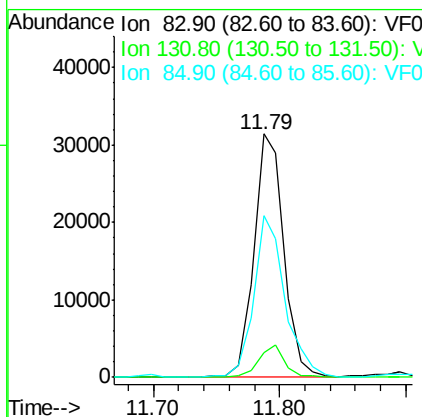
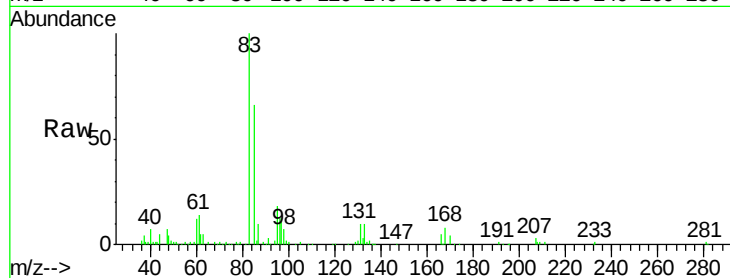
ClientSampleId :

VF0426SBS01

Tot Ion:	83	Resp:	51701
Ion Ratio	Lower	Upper	
83	100		
131	11.7	5.5	16.5
85	69.9	34.5	103.6

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#76

1,2,3-Trichloropropane

Concen: 19.617 ug/l

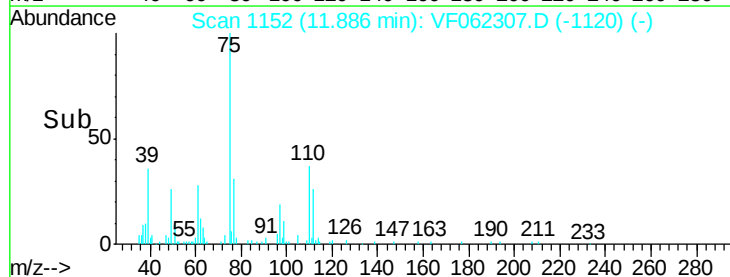
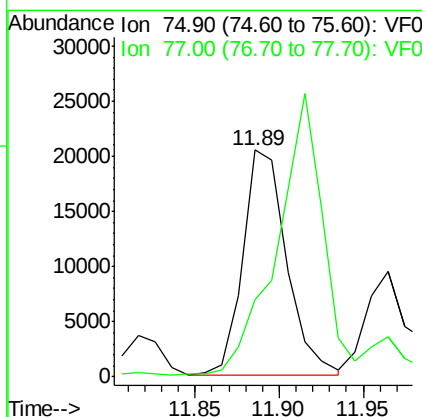
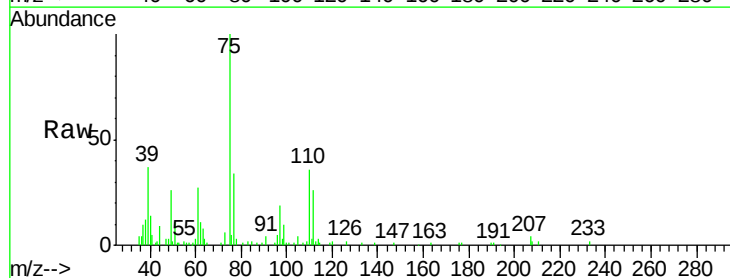
RT: 11.89 min Scan# 1152

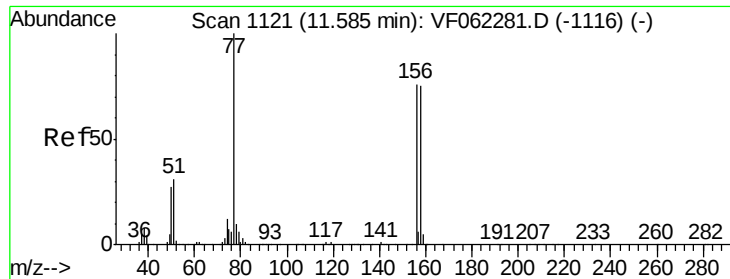
Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	75	Resp:	36577
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





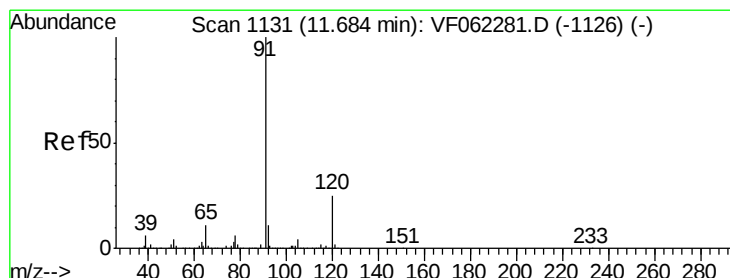
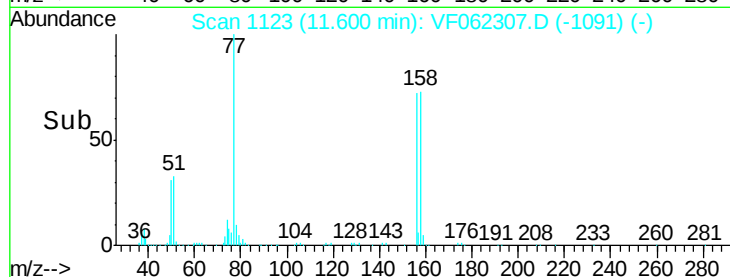
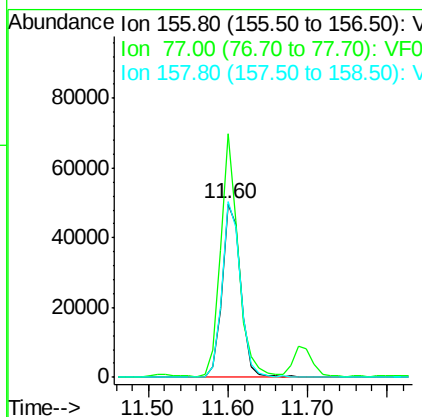
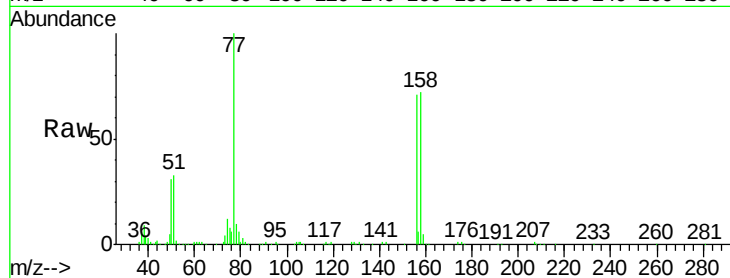
#77
Bromobenzene
Concen: 19.906 ug/l
RT: 11.60 min Scan# 1123
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	132.0	67.3	201.9
158	100.8	49.5	148.5

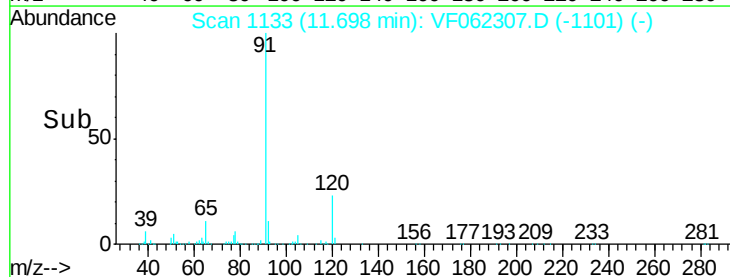
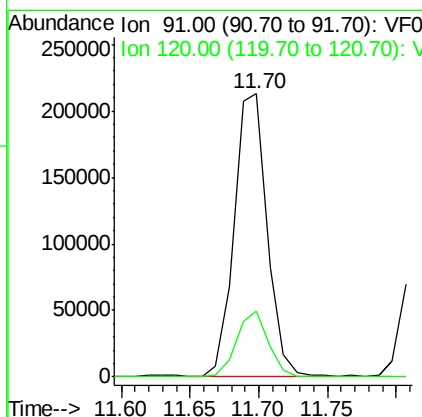
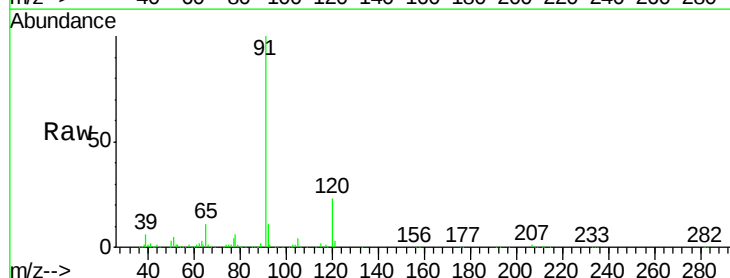
Manual Integrations
APPROVED

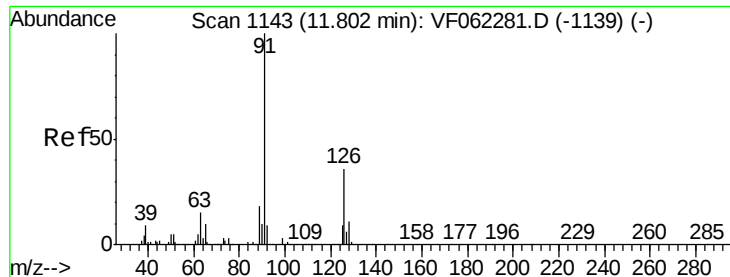
MMDadoda
4/29/2019 3:59:49 PM



#78
n-propylbenzene
Concen: 20.244 ug/l
RT: 11.70 min Scan# 1133
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.8	35.4





#79

2-Chlorotoluene

Concen: 20.616 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

ClientSampleId :

VF0426SBS01

Tot Ion: 91 Resp: 216134

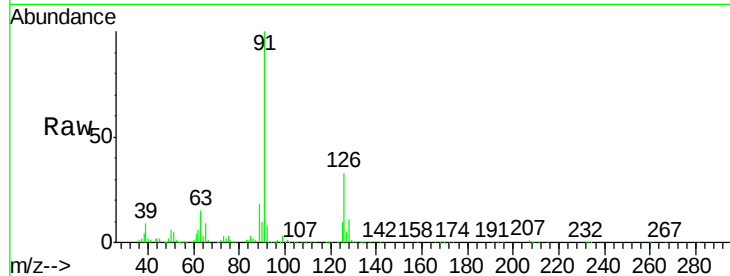
Ion Ratio Lower Upper

91 100

126 34.5 17.9 53.8

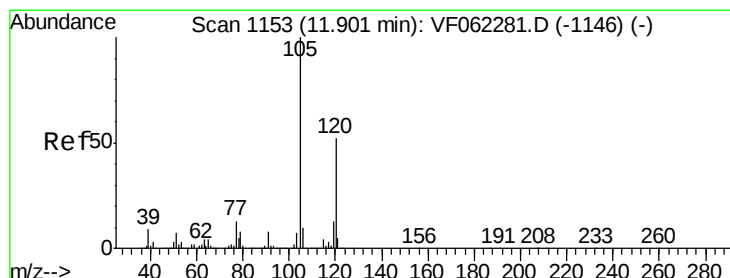
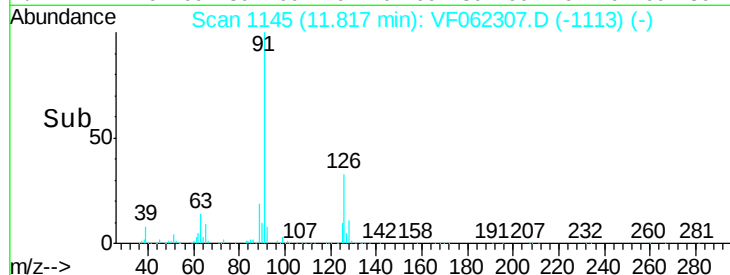
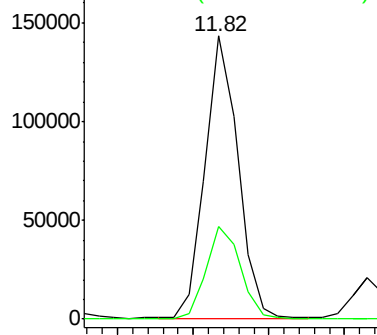
Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 21.041 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. 0.01 min

Lab File: VF062307.D

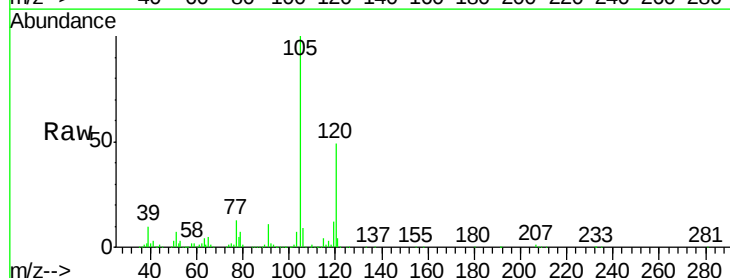
Acq: 26 Apr 2019 16:03

Tgt Ion:105 Resp: 293813

Ion Ratio Lower Upper

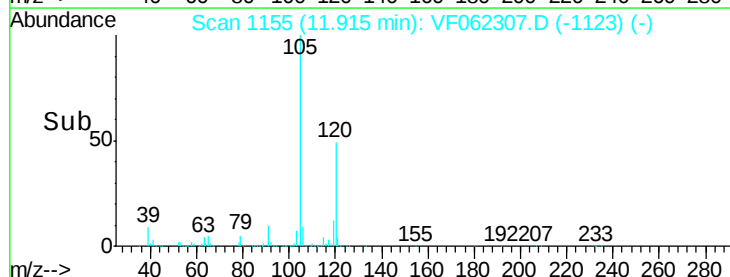
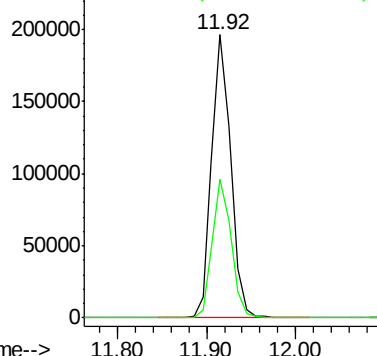
105 100

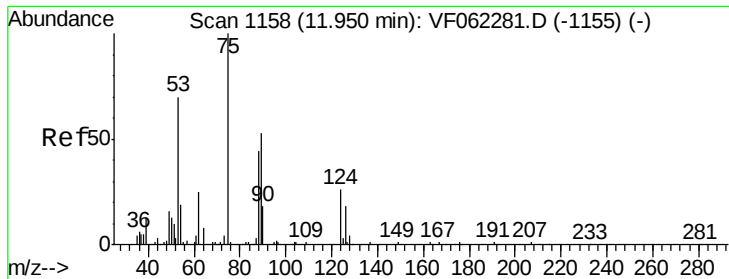
120 48.7 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.398 ug/l m

RT: 11.96 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Instrument :

MSVOA_F

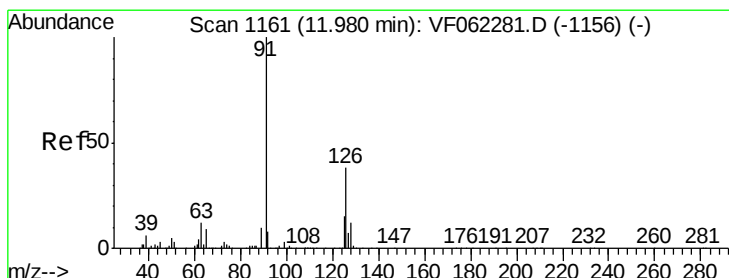
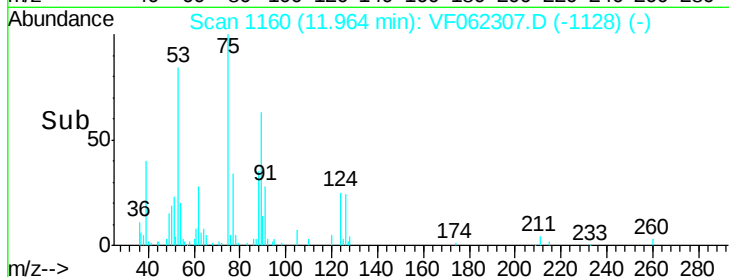
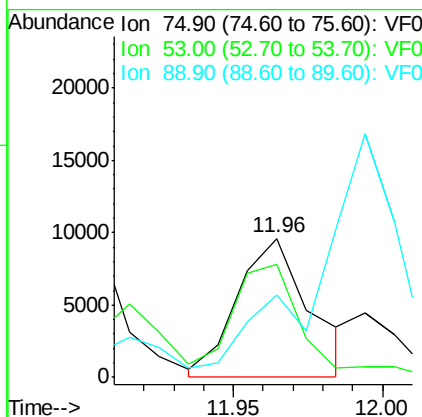
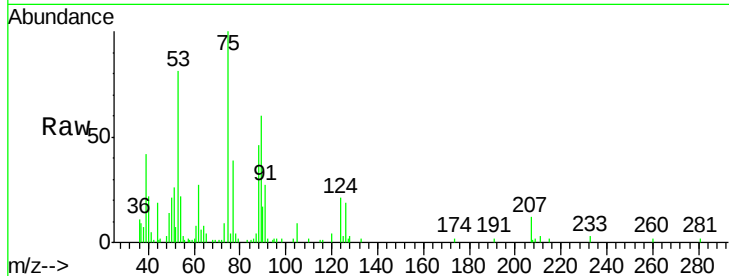
ClientSampleId :

VF0426SBS01

Tot Ion:	75	Resp:	16167
Ion Ratio	Lower	Upper	
75	100		
53	82.6	67.1	100.7
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#82

4-Chlorotoluene

Concen: 21.032 ug/l

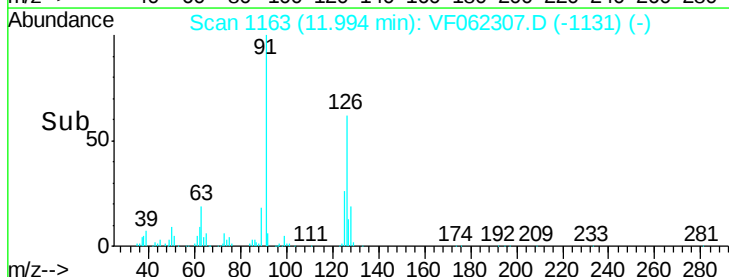
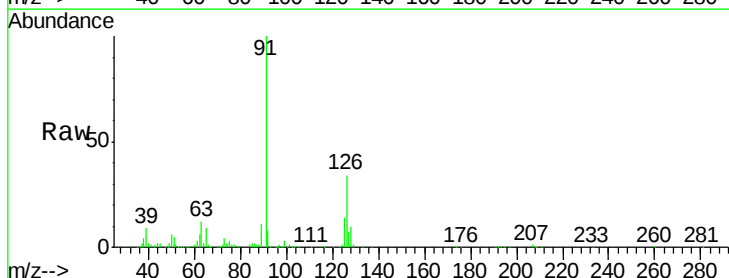
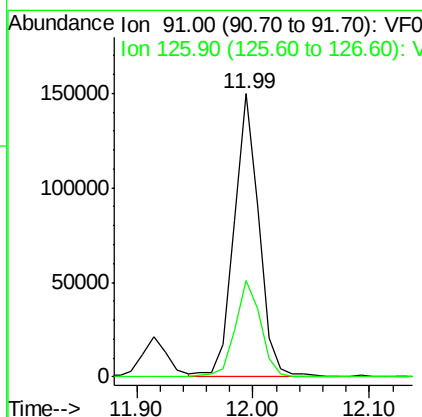
RT: 11.99 min Scan# 1163

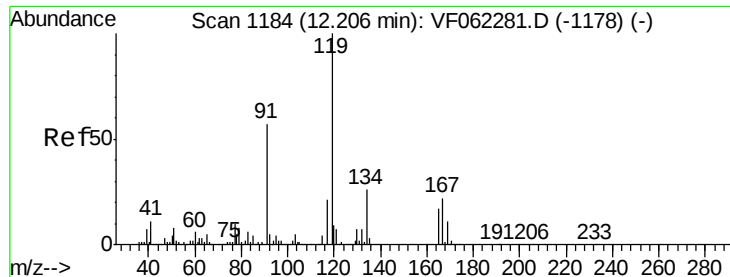
Delta R.T. 0.01 min

Lab File: VF062307.D

Acq: 26 Apr 2019 16:03

Tgt Ion:	91	Resp:	218181
Ion Ratio	Lower	Upper	
91	100		
126	35.6	17.3	52.0





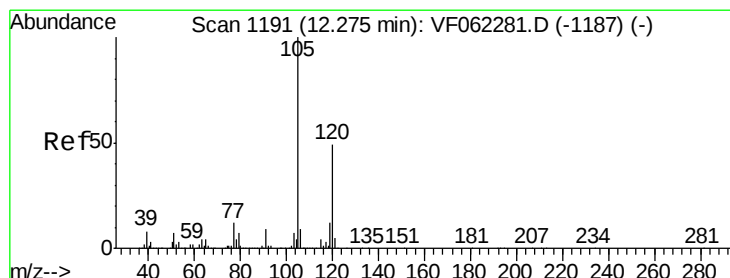
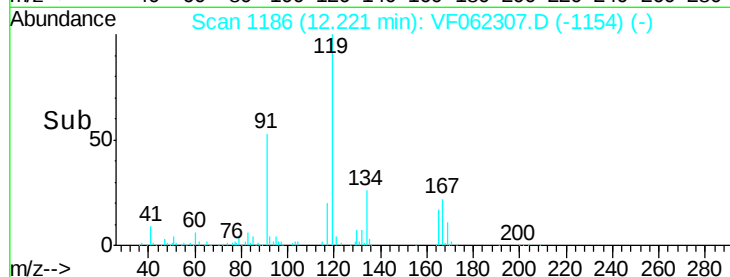
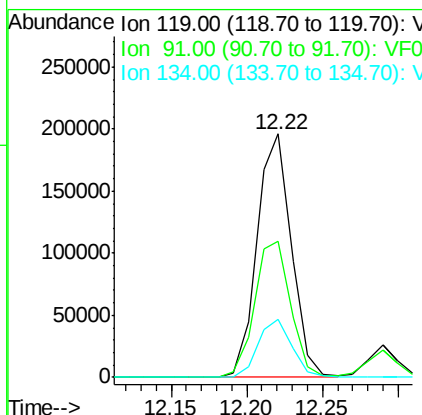
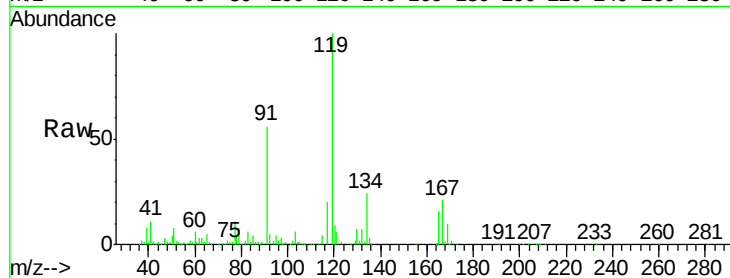
#83
tert-Butylbenzene
Concen: 21.741 ug/l
RT: 12.22 min Scan# 1186
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	58.4	29.4	88.2
134	23.6	11.9	35.7

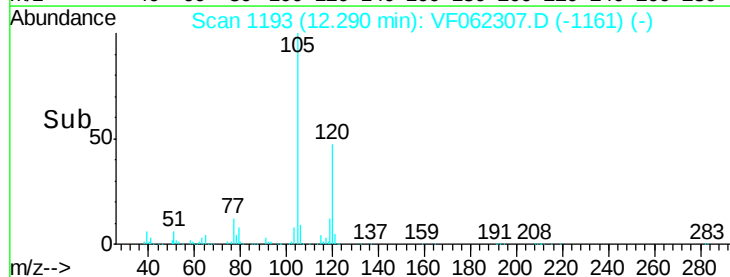
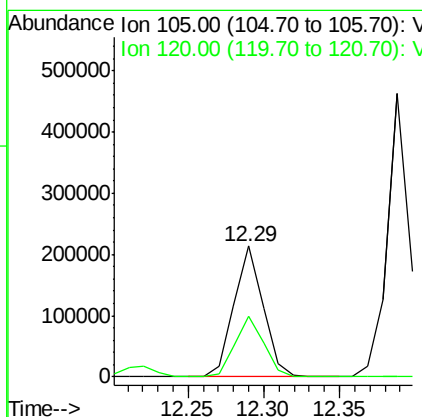
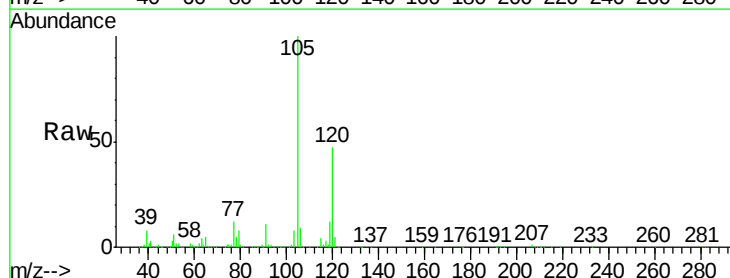
Manual Integrations
APPROVED

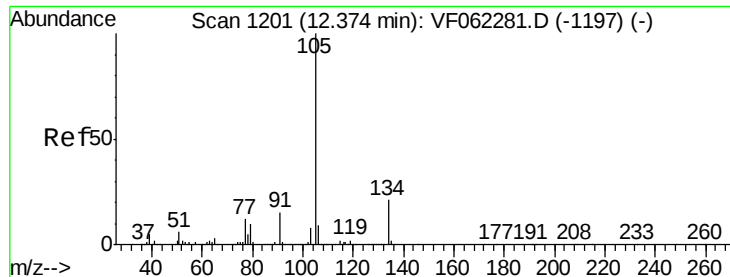
MMDadoda
4/29/2019 3:59:49 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.379 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	24.1	72.2





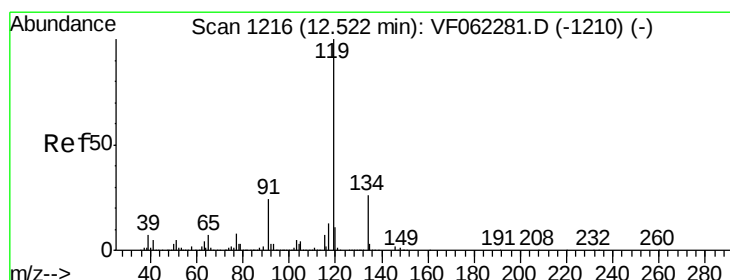
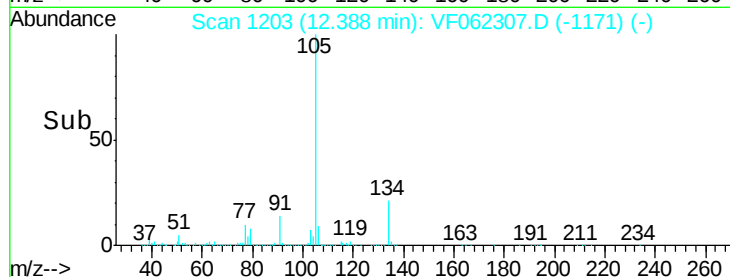
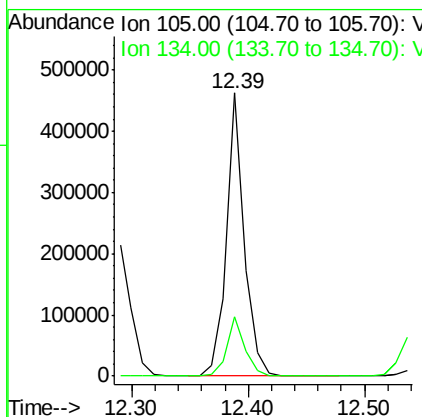
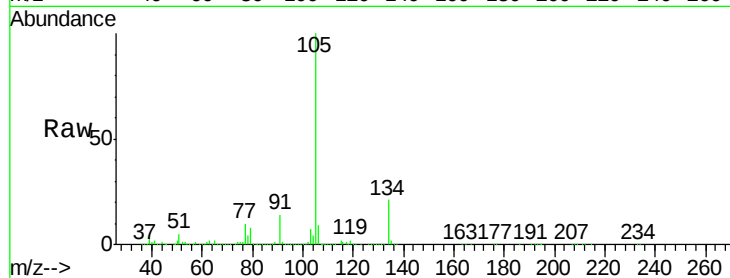
#85
 sec-Butylbenzene
 Concen: 27.417 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.1	10.2	30.4

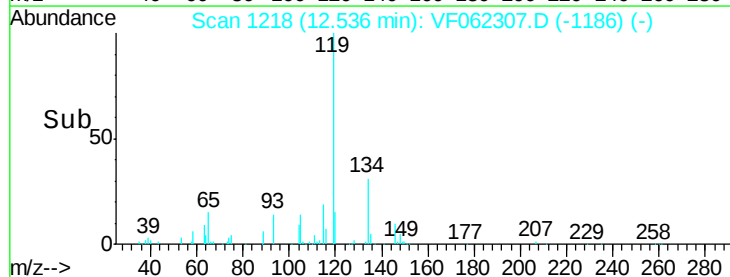
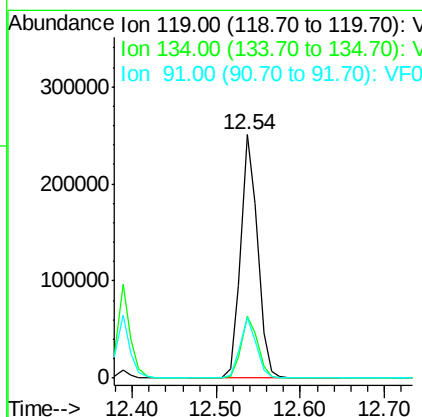
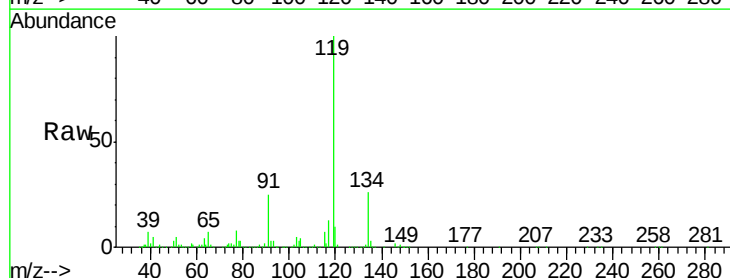
Manual Integrations
 APPROVED

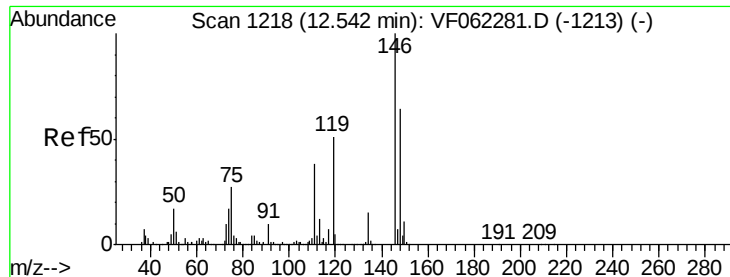
MMDadoda
 4/29/2019 3:59:49 PM



#86
 p-Isopropyltoluene
 Concen: 21.868 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.2	13.2	39.5
91	23.6	11.6	34.7





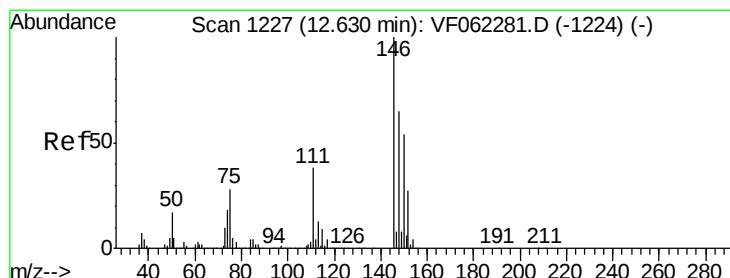
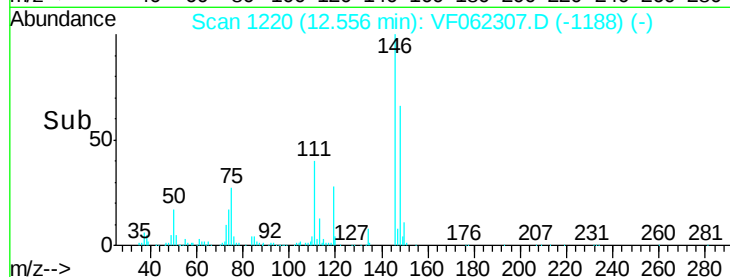
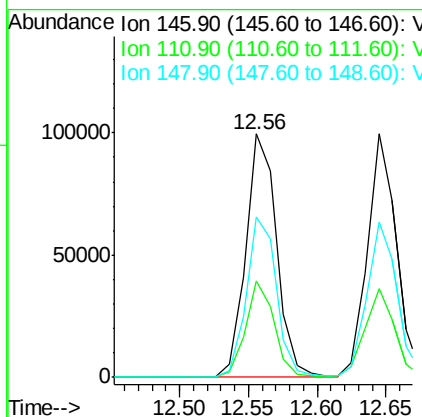
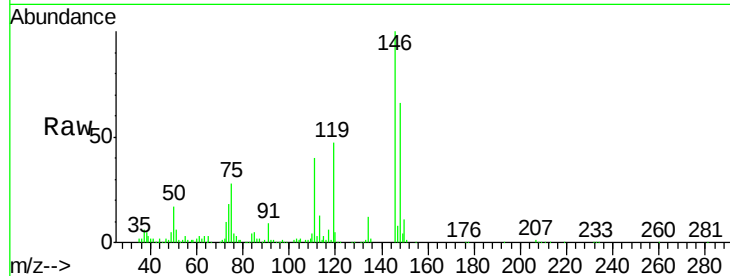
#87
 1,3-Dichlorobenzene
 Concen: 21.426 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.6	55.8
148	64.1	32.8	98.4

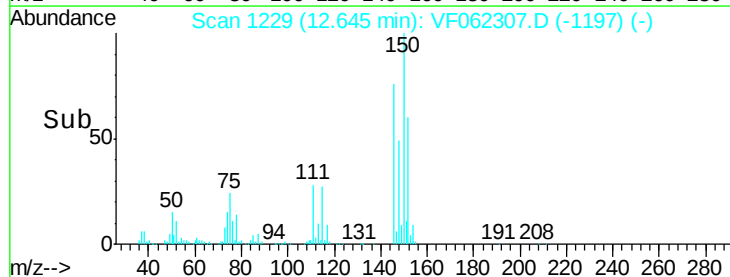
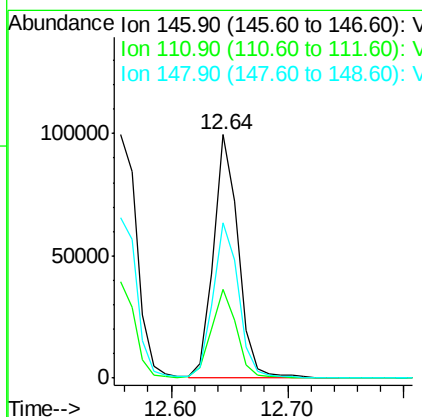
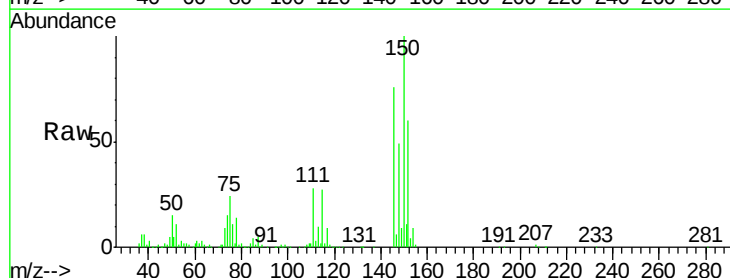
Manual Integrations
 APPROVED

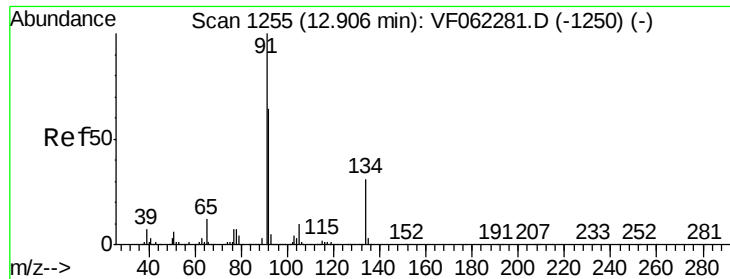
MMDadoda
 4/29/2019 3:59:49 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.099 ug/l
 RT: 12.64 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.6	56.0
148	66.7	32.5	97.5





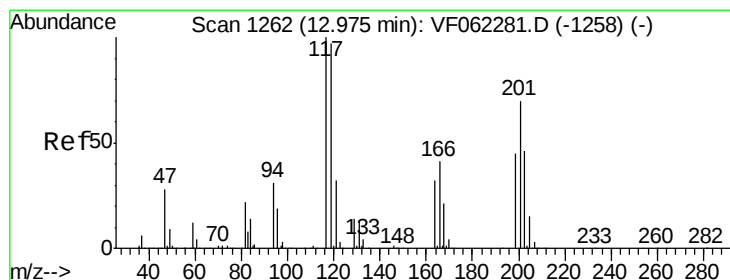
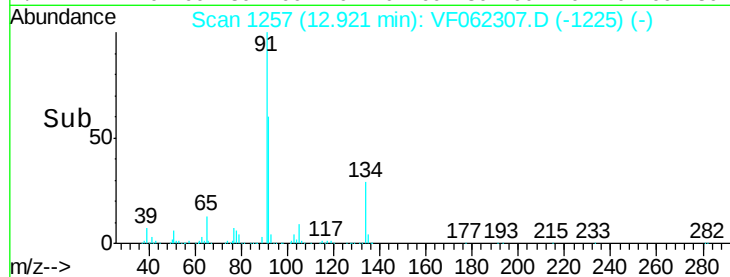
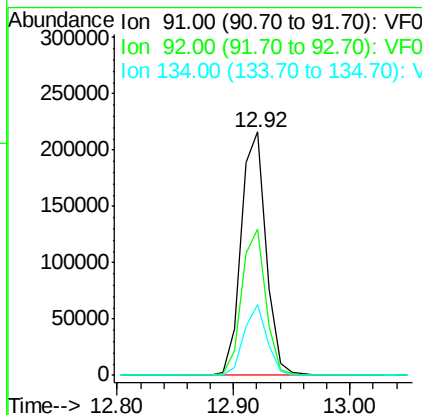
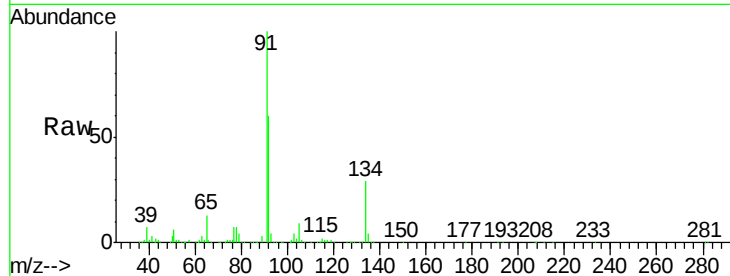
#89
n-Butylbenzene
Concen: 22.066 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	320847		
92	57.7		31.1	93.3
134	27.1		14.4	43.4

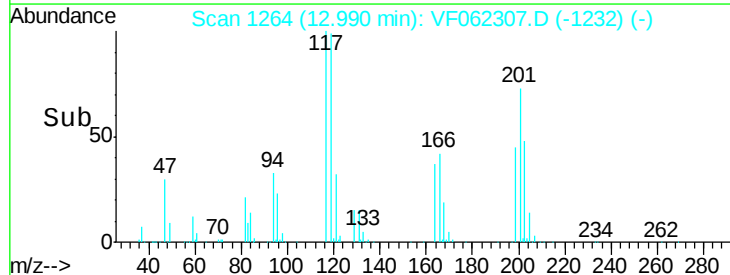
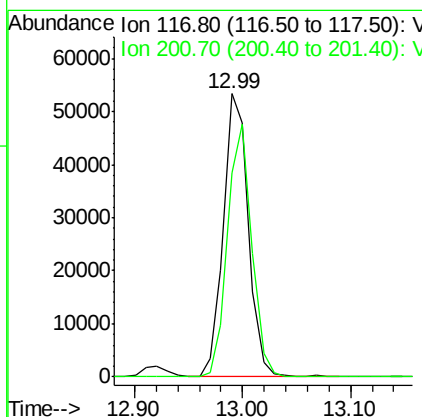
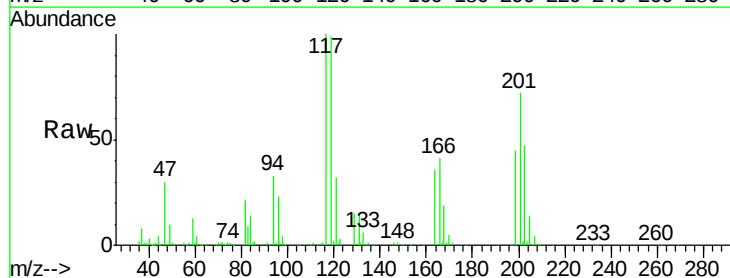
Manual Integrations
APPROVED

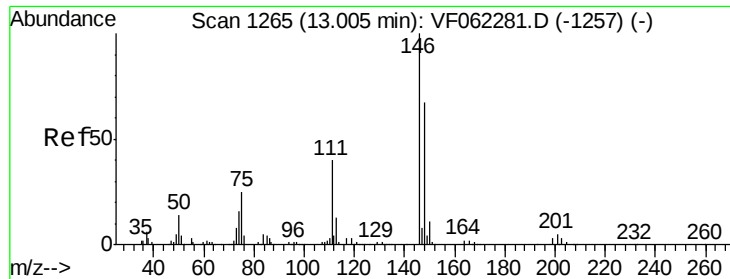
MMDadoda
4/29/2019 3:59:49 PM



#90
Hexachloroethane
Concen: 21.474 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	86139		
201	86.1		42.9	128.5





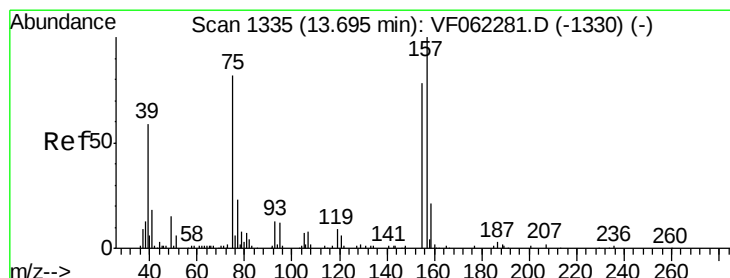
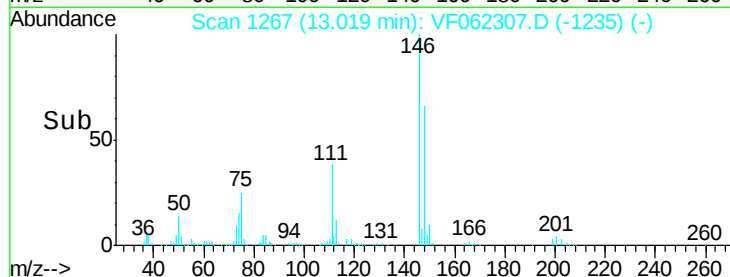
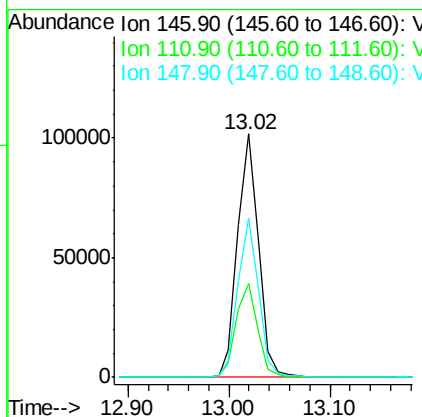
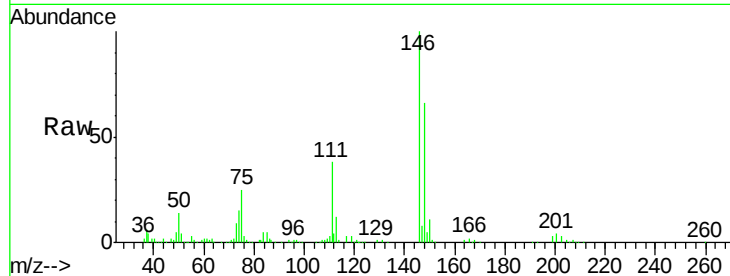
#91
 1,2-Dichlorobenzene
 Concen: 20.985 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	147363		
111	39.2	20.0	59.9	
148	64.8	33.1	99.5	

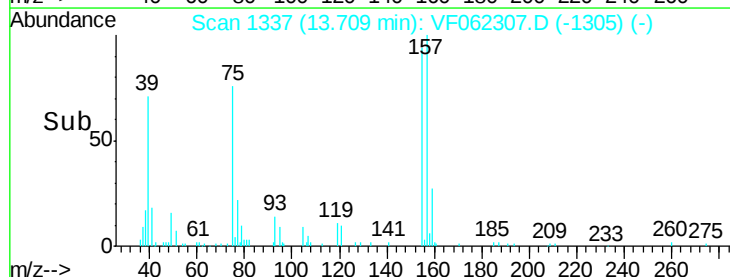
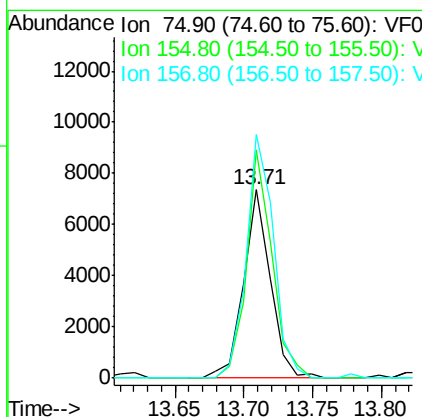
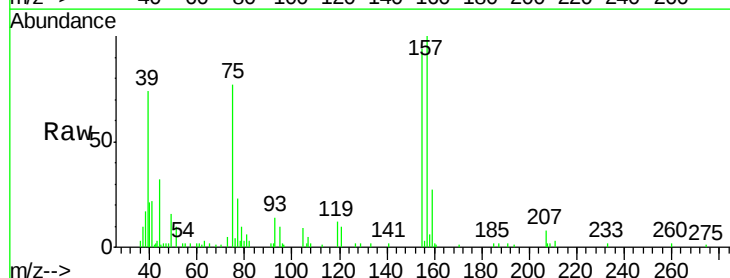
Manual Integrations
 APPROVED

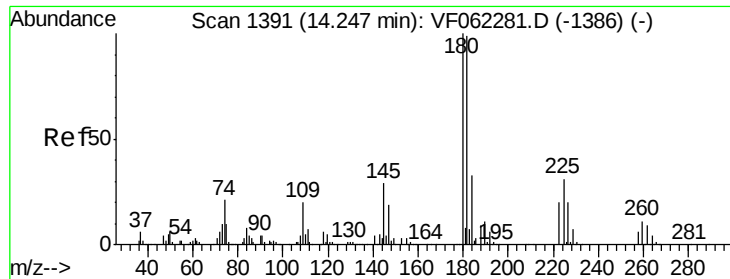
MMDadoda
 4/29/2019 3:59:49 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.855 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9996		
155	115.6	51.7	155.2	
157	131.4	64.5	193.5	





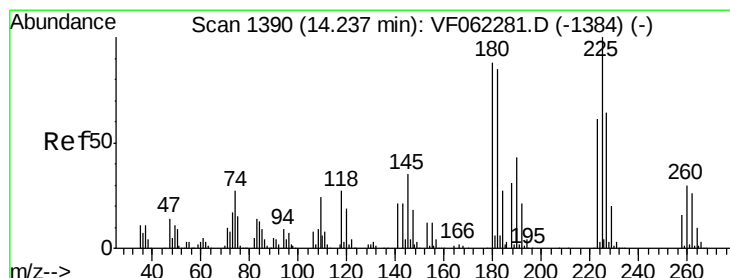
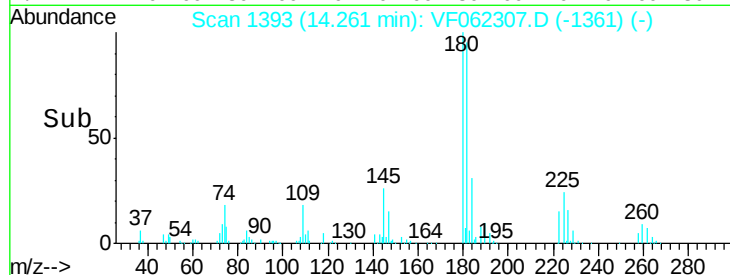
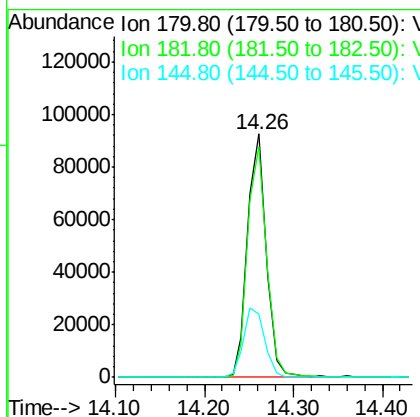
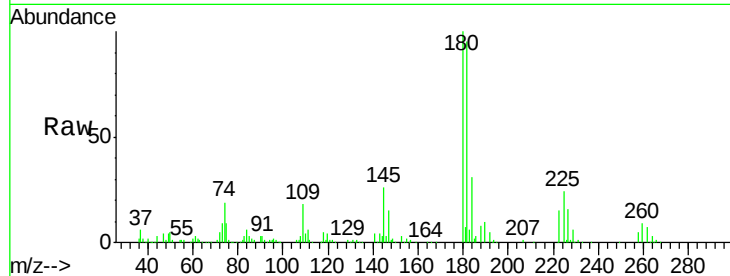
#93
 1,2,4-Trichlorobenzene
 Concen: 21.868 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.9	48.5	145.6	
145	32.5	16.7	50.1	

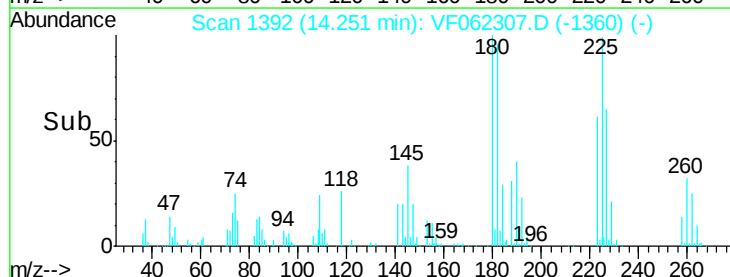
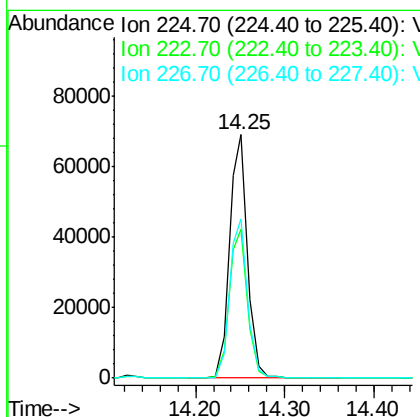
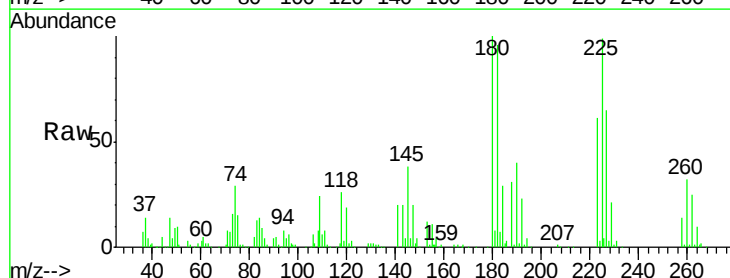
Manual Integrations
 APPROVED

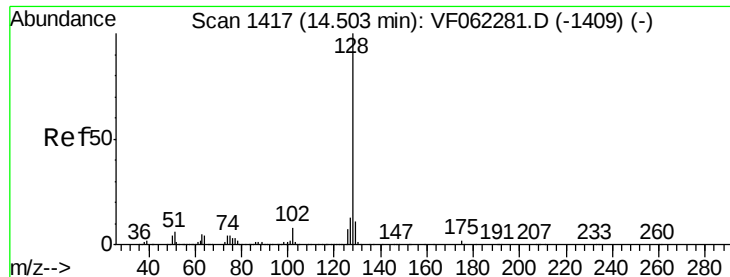
MMDadoda
 4/29/2019 3:59:49 PM



#94
 Hexachlorobutadiene
 Concen: 22.242 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VF062307.D
 Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.7	30.8	92.3	
227	65.6	31.9	95.5	





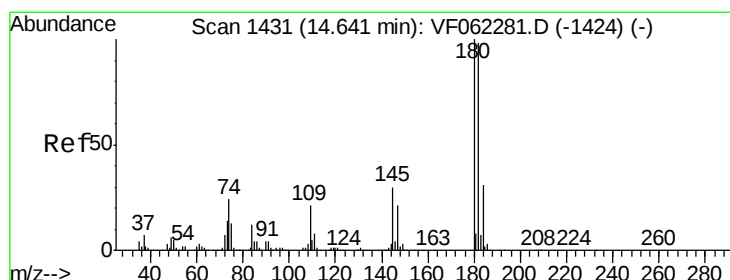
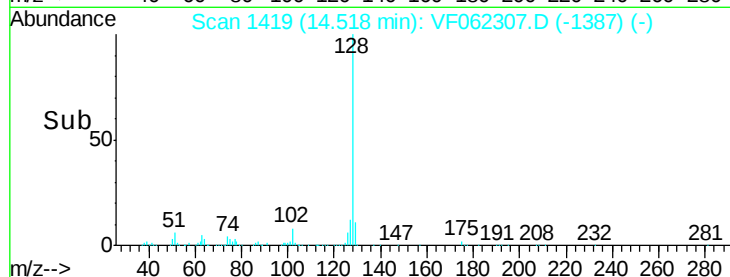
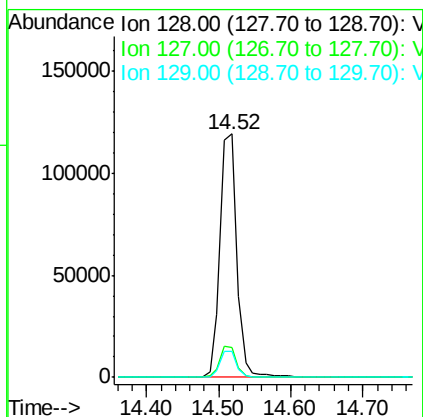
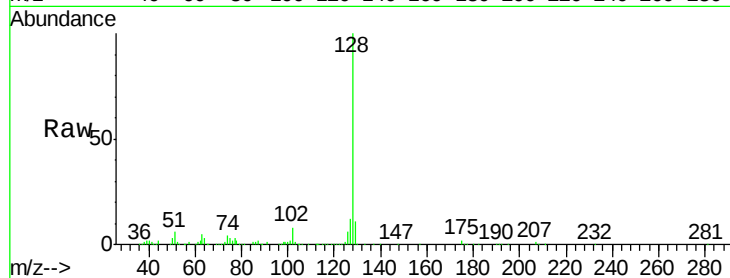
#95
Naphthalene
Concen: 20.168 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Instrument :
MSVOA_F
ClientSampleId :
VF0426SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	192758		
127	12.7	10.2	15.4	
129	10.8	8.9	13.3	

Manual Integrations
APPROVED

MMDadoda
4/29/2019 3:59:49 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.096 ug/l
RT: 14.66 min Scan# 1433
Delta R.T. 0.01 min
Lab File: VF062307.D
Acq: 26 Apr 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	128923		
182	97.4	49.0	147.2	
145	28.3	14.5	43.5	

