

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042419\
 Data File : VF062281.D
 Acq On : 24 Apr 2019 15:12
 Operator : FY/SY
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 4/26/2019 9:21:00 AM

Quant Time: Apr 25 08:14:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 07:31:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	473734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	656655	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	479530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	263674	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	190777	49.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.32%	
35) Dibromofluoromethane	4.32	113	249591	49.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.88%	
50) Toluene-d8	7.72	98	588669	49.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	11.51	95	230065	45.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	250606	42.759	ug/l	100
3) Chloromethane	1.15	50	209657	42.714	ug/l	100
4) Vinyl Chloride	1.20	62	198677	43.148	ug/l	100
5) Bromomethane	1.40	94	143563	46.194	ug/l	100
6) Chloroethane	1.45	64	95513	47.342	ug/l	100
7) Trichlorofluoromethane	1.56	101	329006	45.295	ug/l	100
8) Diethyl Ether	1.72	74	53696	41.132	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.92	101	200707	44.083	ug/l	100
10) Methyl Iodide	1.99	142	353408	44.595	ug/l	100
11) Tert butyl alcohol	2.70	59	53924	235.761	ug/l	100
12) 1,1-Dichloroethene	1.88	96	187685	44.925	ug/l	100
13) Acrolein	2.10	56	56044	369.975	ug/l	100
14) Allyl chloride	2.20	41	189820	30.137	ug/l #	64
15) Acrylonitrile	3.09	53	158253	239.232	ug/l	100
16) Acetone	2.35	43	198639	231.442	ug/l	100
17) Carbon Disulfide	1.93	76	472532	43.620	ug/l	100
18) Methyl Acetate	2.47	43	71977	33.824	ug/l	100
19) Methyl tert-butyl Ether	2.56	73	369573	48.012	ug/l	100
20) Methylene Chloride	2.35	84	171157m	31.521	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	175152	43.650	ug/l	100
22) Diisopropyl ether	2.95	45	517683	43.182	ug/l	100
23) Vinyl Acetate	3.35	43	1201346	231.299	ug/l	100
24) 1,1-Dichloroethane	3.02	63	300317	44.655	ug/l	100
25) 2-Butanone	4.54	43	303078	222.807	ug/l	100
26) 2,2-Dichloropropane	3.78	77	160456	45.682	ug/l	100
27) cis-1,2-Dichloroethene	3.66	96	228304	44.479	ug/l	100
28) Bromochloromethane	3.92	49	137934	46.898	ug/l #	100
29) Tetrahydrofuran	4.28	42	136835	230.795	ug/l	100
30) Chloroform	4.05	83	388963	46.369	ug/l	100
31) Cyclohexane	3.89	56	294214	45.225	ug/l	100
32) 1,1,1-Trichloroethane	4.30	97	307474m	49.219	ug/l	
36) 1,1-Dichloropropene	4.49	75	284725	45.653	ug/l	100
37) Ethyl Acetate	4.31	43	114061	44.542	ug/l	100
38) Carbon Tetrachloride	4.19	117	265216	43.521	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042419\
 Data File : VF062281.D
 Acq On : 24 Apr 2019 15:12
 Operator : FY/SY
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 4/26/2019 9:21:00 AM

Quant Time: Apr 25 08:14:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 07:31:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	334551	45.519	ug/l	100
40) Benzene	4.83	78	662070	44.012	ug/l	100
41) Methacrylonitrile	4.94	41	67766	47.377	ug/l	100
42) 1,2-Dichloroethane	5.14	62	216168	46.794	ug/l	100
43) Isopropyl Acetate	7.12	43	114418	42.363	ug/l	100
44) Trichloroethene	5.69	130	224377	44.101	ug/l	100
45) 1,2-Dichloropropane	6.42	63	146112	44.094	ug/l	100
46) Dibromomethane	6.27	93	110868	46.188	ug/l	100
47) Bromodichloromethane	6.57	83	255257	45.171	ug/l	100
48) Methyl methacrylate	6.88	41	80276	43.316	ug/l	100
49) 1,4-Dioxane	6.88	88	18839	888.184	ug/l	100
51) 4-Methyl-2-Pentanone	8.41	43	436082	211.017	ug/l	100
52) Toluene	7.79	92	375011	43.465	ug/l	100
53) t-1,3-Dichloropropene	8.43	75	184757	44.894	ug/l	100
54) cis-1,3-Dichloropropene	7.47	75	240357	44.978	ug/l	100
55) 1,1,2-Trichloroethane	8.65	97	107652	45.651	ug/l	100
56) Ethyl methacrylate	8.77	69	115796	43.926	ug/l	100
57) 1,3-Dichloropropane	9.00	76	166422	44.875	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.46	63	193702	237.850	ug/l	100
59) 2-Hexanone	9.63	43	277702	137.797	ug/l	100
60) Dibromochloromethane	8.86	129	178664	47.019	ug/l	100
61) 1,2-Dibromoethane	9.14	107	127525	46.407	ug/l	100
64) Tetrachloroethene	8.31	164	185579	45.025	ug/l	100
65) Chlorobenzene	9.94	112	400123	44.989	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	193915	45.234	ug/l	100
67) Ethyl Benzene	10.04	91	684614	43.395	ug/l	100
68) m/p-Xylenes	10.26	106	512853	88.041	ug/l	100
69) o-Xylene	10.83	106	295124	45.134	ug/l	100
70) Styrene	10.90	104	410997	43.447	ug/l	100
71) Bromoform	10.89	173	110308	47.409	ug/l	100
73) Isopropylbenzene	11.22	105	876098	46.540	ug/l	100
74) N-amyl acetate	11.46	43	174281	40.777	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.77	83	141498	50.264	ug/l	100
76) 1,2,3-Trichloropropane	11.87	75	96049	47.281	ug/l #	100
77) Bromobenzene	11.59	156	214387	47.221	ug/l	100
78) n-propylbenzene	11.68	91	884098	45.131	ug/l	100
79) 2-Chlorotoluene	11.80	91	539284	46.321	ug/l	100
80) 1,3,5-Trimethylbenzene	11.90	105	730902	46.405	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.95	75	37333m	31.648	ug/l	
82) 4-Chlorotoluene	11.98	91	536930	46.538	ug/l	100
83) tert-Butylbenzene	12.21	119	732066	44.329	ug/l	100
84) 1,2,4-Trimethylbenzene	12.28	105	669283	43.210	ug/l	100
85) sec-Butylbenzene	12.37	105	924177	45.081	ug/l	100
86) p-Isopropyltoluene	12.52	119	799388	43.806	ug/l	100
87) 1,3-Dichlorobenzene	12.54	146	352007	42.610	ug/l	100
88) 1,4-Dichlorobenzene	12.63	146	346472	44.726	ug/l	100
89) n-Butylbenzene	12.91	91	709882	41.714	ug/l	100
90) Hexachloroethane	12.98	117	212875	47.018	ug/l	100
91) 1,2-Dichlorobenzene	13.00	146	345168	43.464	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.69	75	27954	48.852	ug/l	100

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF042419\
Data File : VF062281.D
Acq On : 24 Apr 2019 15:12
Operator : FY/SY
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

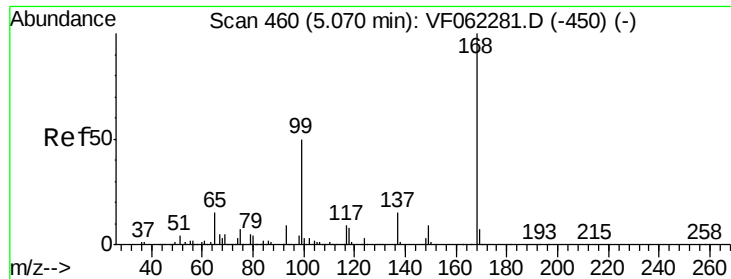
Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM

Quant Time: Apr 25 08:14:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 25 07:31:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	312324	44.388	ug/l	100
94) Hexachlorobutadiene	14.24	225	231516	46.357	ug/l	100
95) Naphthalene	14.50	128	499901	47.849	ug/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	300002	46.324	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 473734

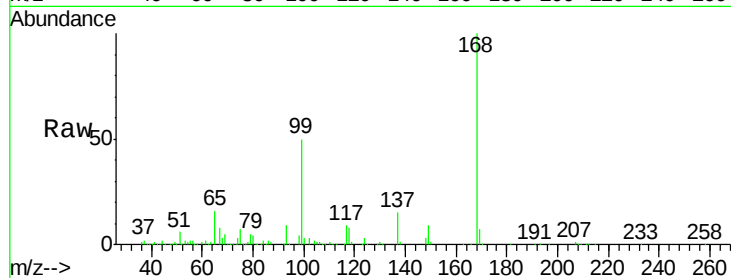
Ion Ratio Lower Upper

168 100

99 50.0 40.0 60.0

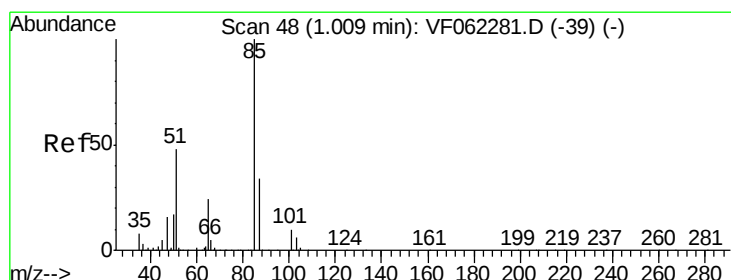
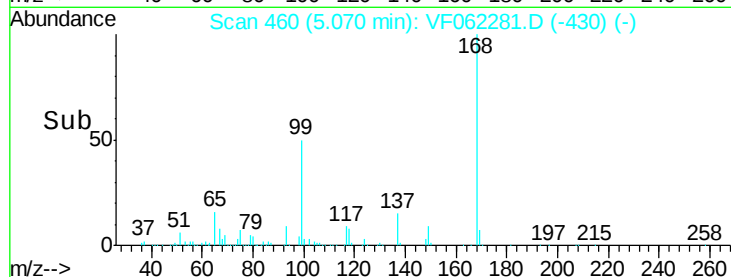
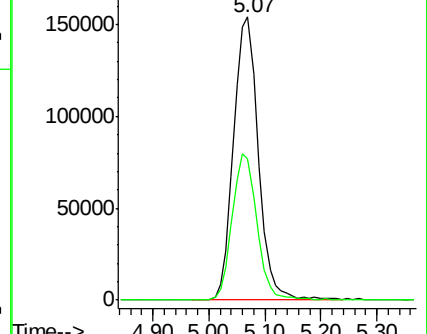
Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0



#2

Dichlorodifluoromethane

Concen: 42.759 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062281.D

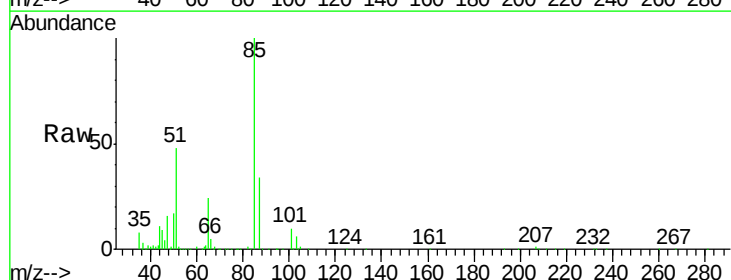
Acq: 24 Apr 2019 15:12

Tgt Ion: 85 Resp: 250606

Ion Ratio Lower Upper

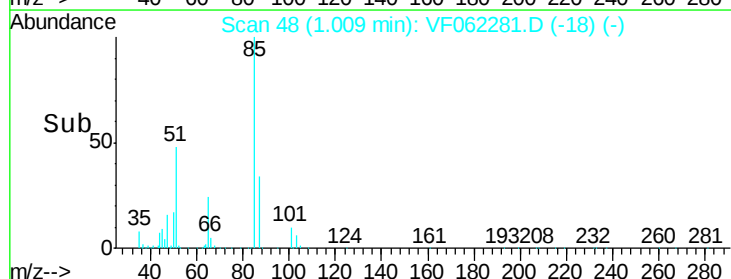
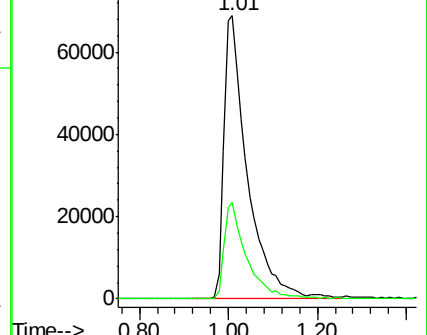
85 100

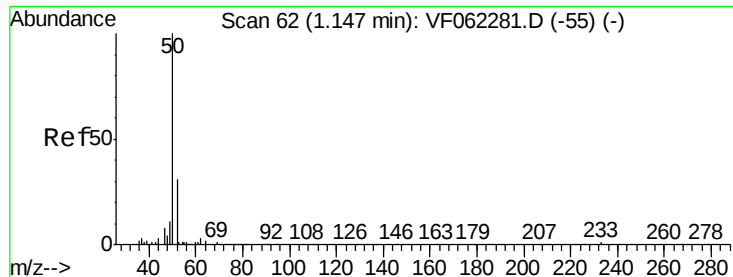
87 34.2 17.1 51.3



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0





#3

Chloromethane

Concen: 42.714 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 209657

Ion Ratio Lower Upper

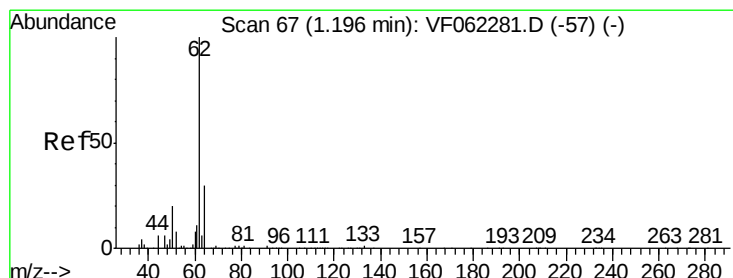
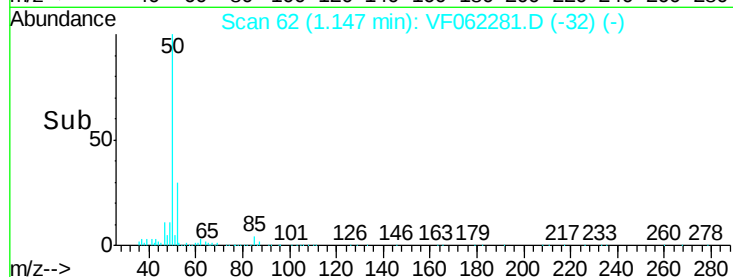
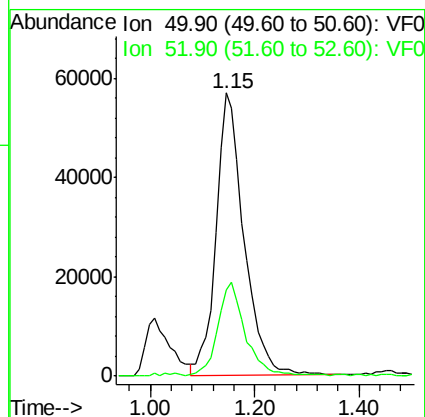
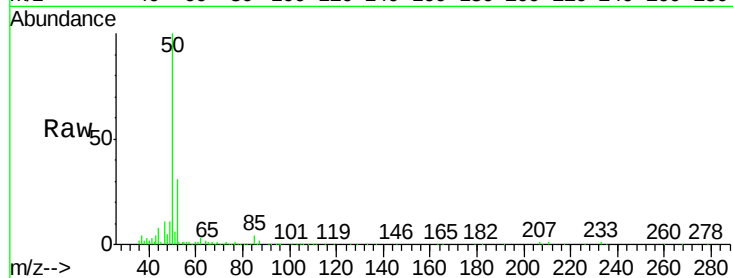
50 100

52 30.3 24.2 36.4

Manual Integrations
APPROVED

MMDadoda

4/26/2019 9:21:00 AM



#4

Vinyl Chloride

Concen: 43.148 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062281.D

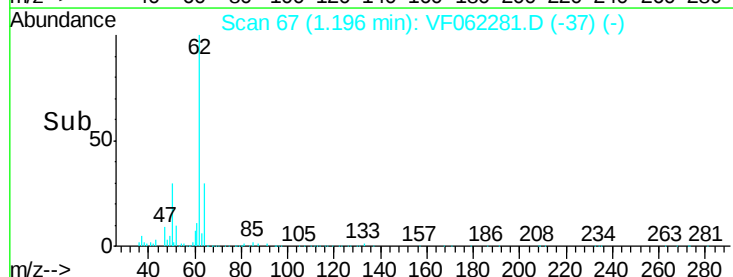
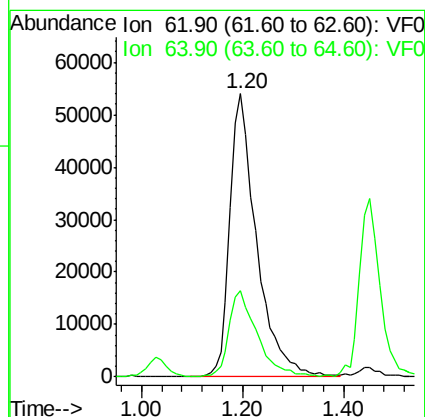
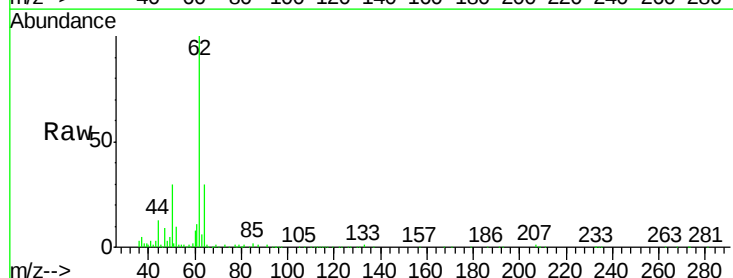
Acq: 24 Apr 2019 15:12

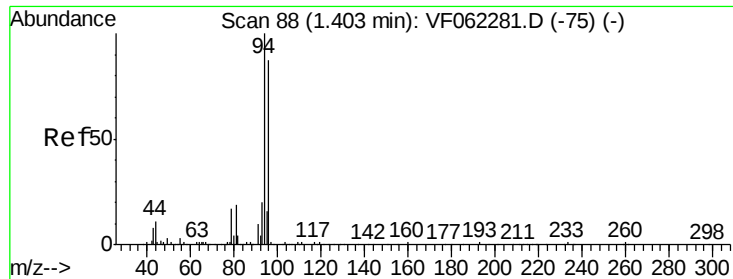
Tgt Ion: 62 Resp: 198677

Ion Ratio Lower Upper

62 100

64 30.4 24.3 36.5





#5

Bromomethane

Concen: 46.194 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 143563

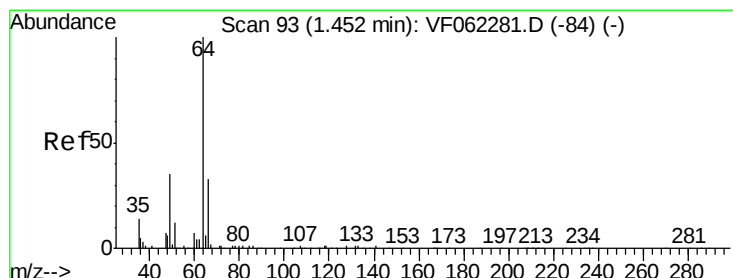
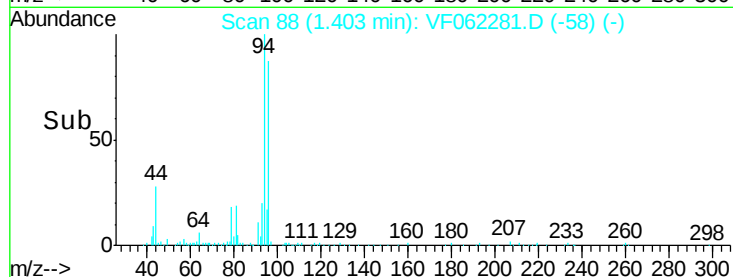
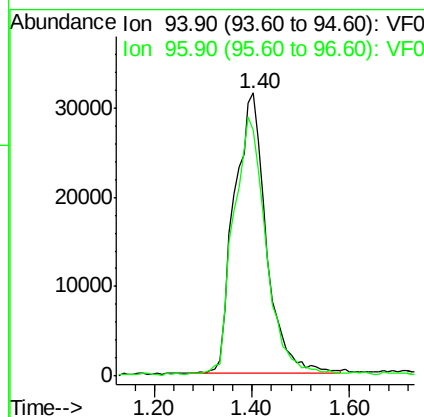
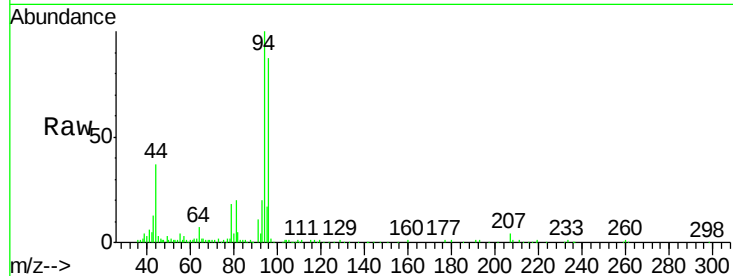
Ion Ratio Lower Upper

94 100

96 86.9 69.5 104.3

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#6

Chloroethane

Concen: 47.342 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062281.D

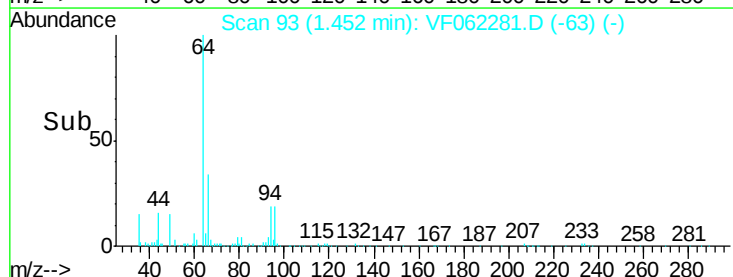
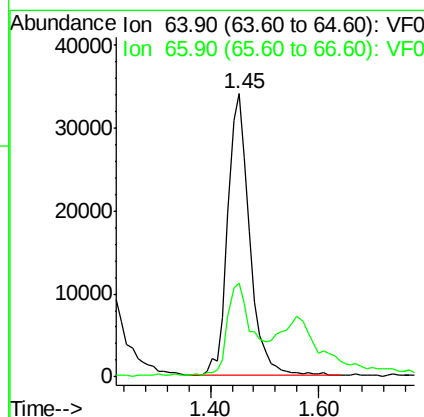
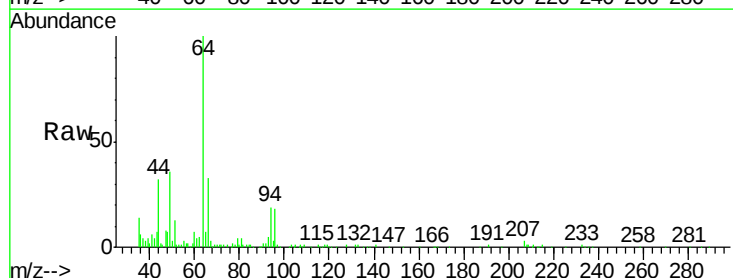
Acq: 24 Apr 2019 15:12

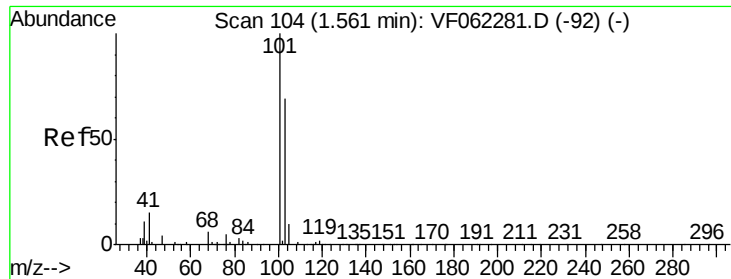
Tgt Ion: 64 Resp: 95513

Ion Ratio Lower Upper

64 100

66 32.5 26.0 39.0





#7

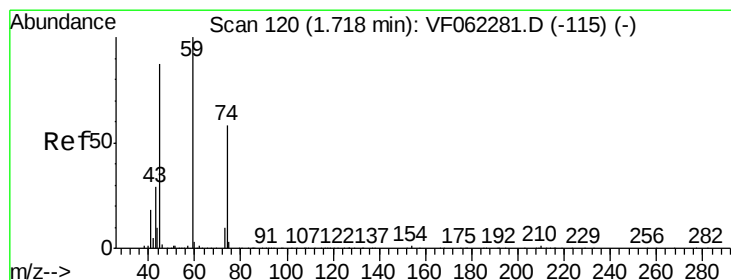
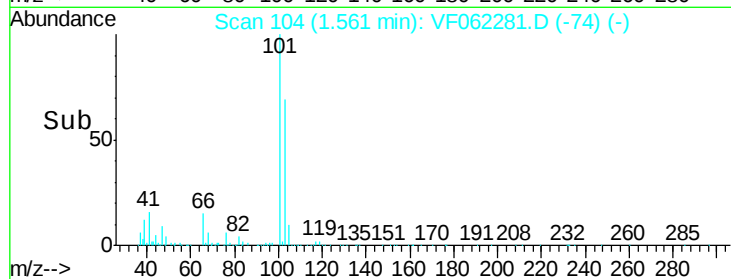
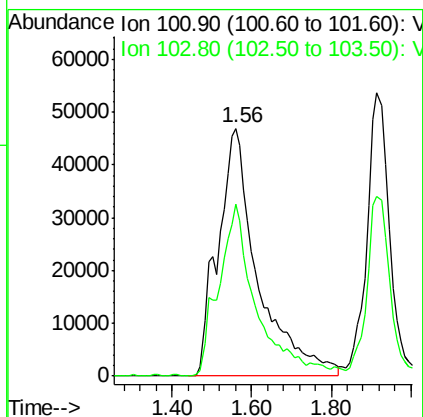
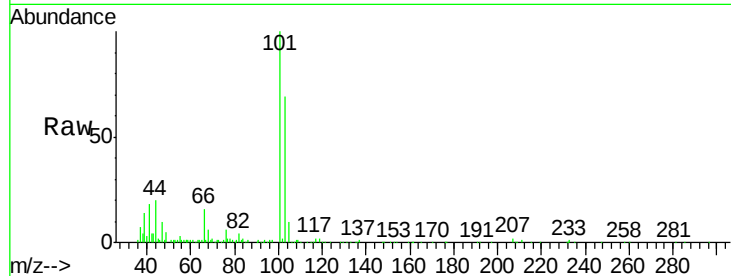
Trichlorofluoromethane
Concen: 45.295 ug/l
RT: 1.56 min Scan# 104
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.8	55.0	82.6

Manual Integrations
APPROVED

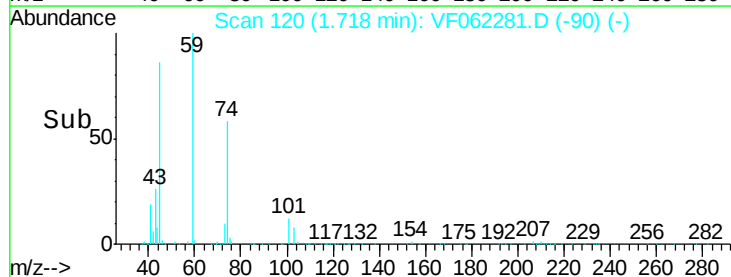
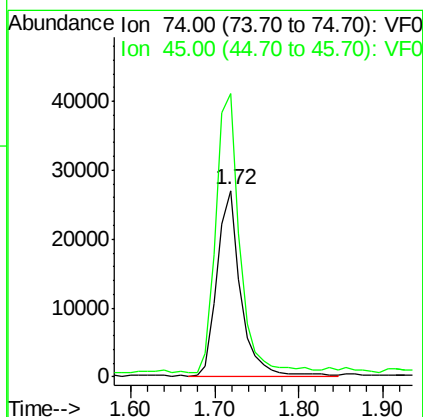
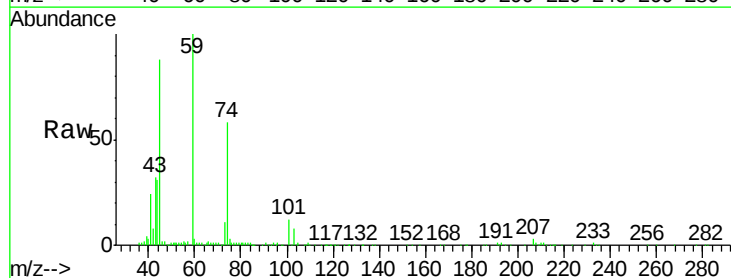
MMDadoda
4/26/2019 9:21:00 AM

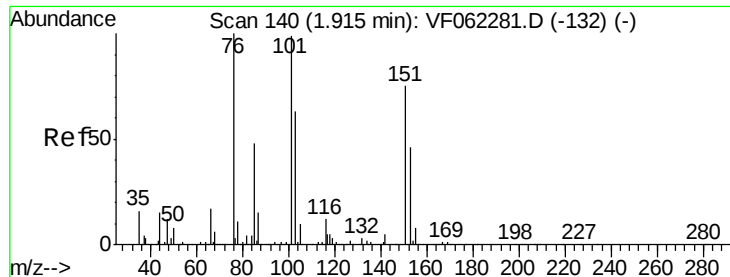


#8

Diethyl Ether
Concen: 41.132 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	148.0	74.0	222.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 44.083 ug/l

RT: 1.92 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

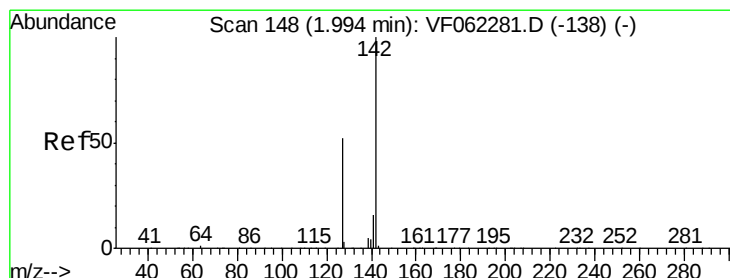
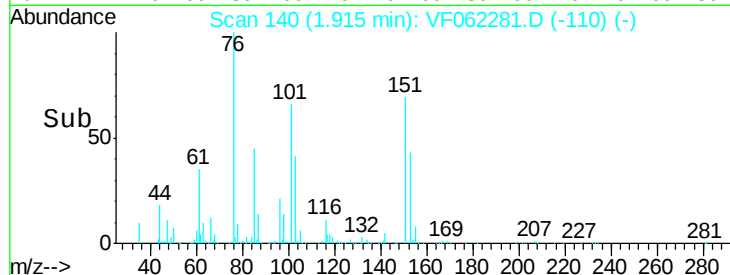
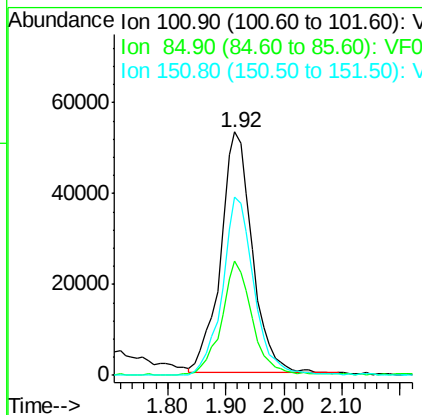
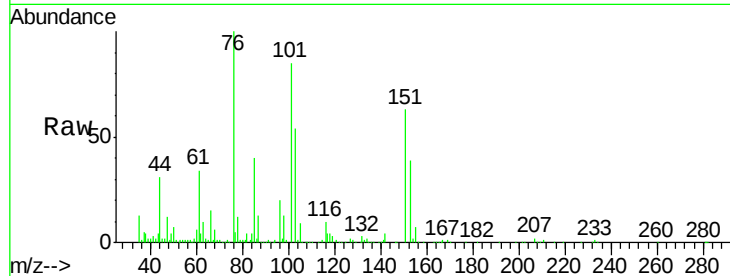
ClientSampleId :

VSTDICCC050

Tot Ion:	101	Resp:	200707
Ion Ratio	Lower	Upper	
101	100		
85	45.6	36.5	54.7
151	74.0	59.2	88.8

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#10

Methyl Iodide

Concen: 44.595 ug/l

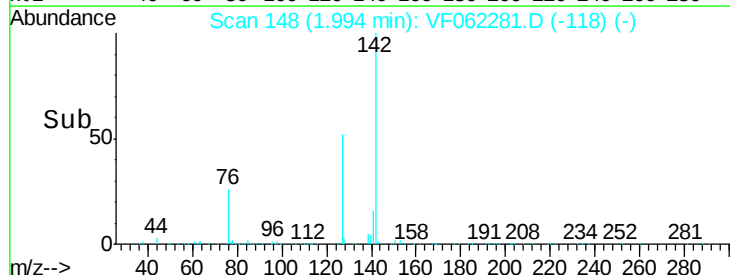
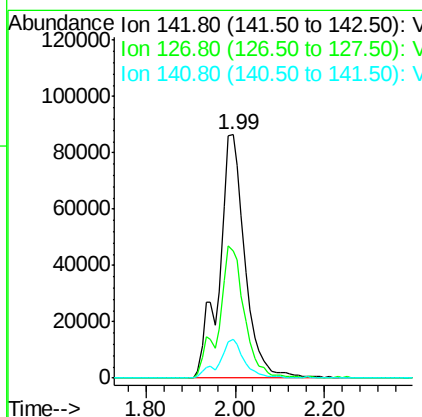
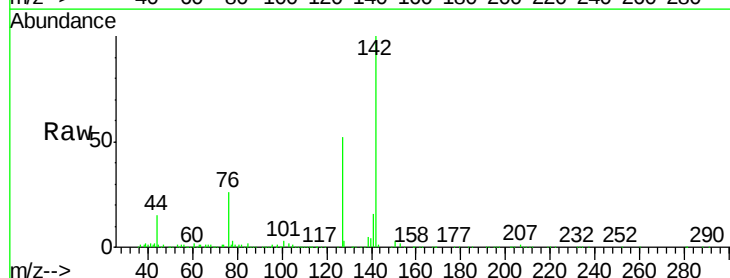
RT: 1.99 min Scan# 148

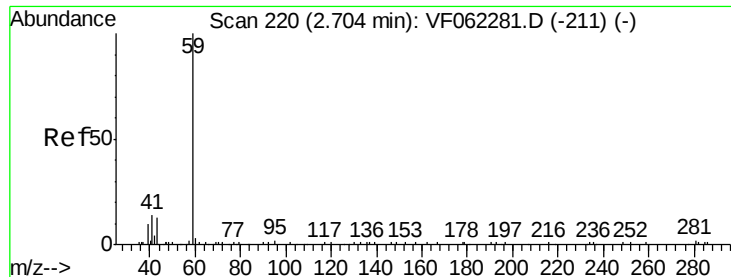
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	142	Resp:	353408
Ion Ratio	Lower	Upper	
142	100		
127	53.7	43.0	64.4
141	15.4	12.3	18.5





#11

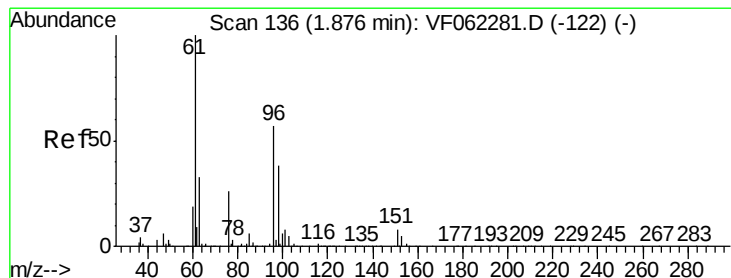
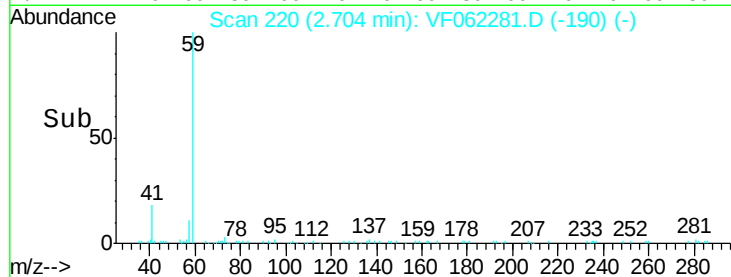
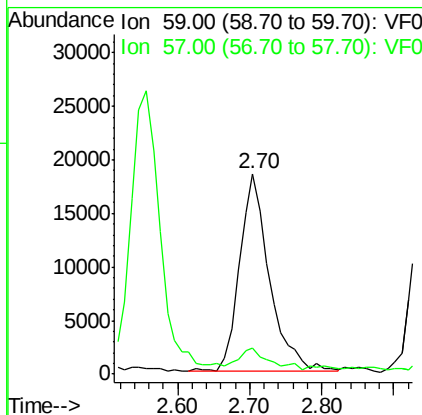
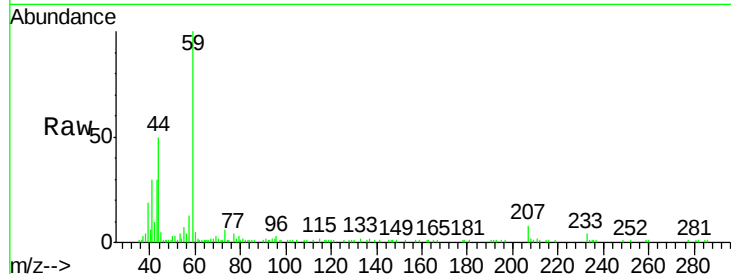
Tert butyl alcohol
Concen: 235.761 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	59	Resp	53924
Ion Ratio	100	Lower	Upper
57	11.0	8.8	13.2

Manual Integrations
APPROVED

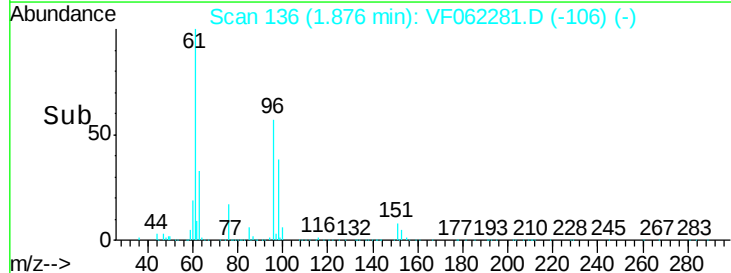
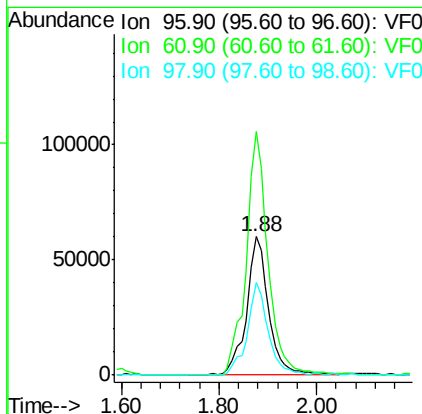
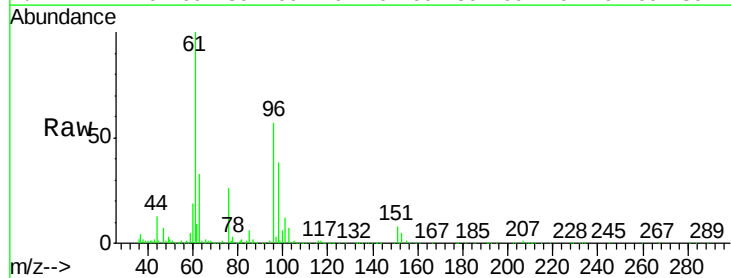
MMDadoda
4/26/2019 9:21:00 AM

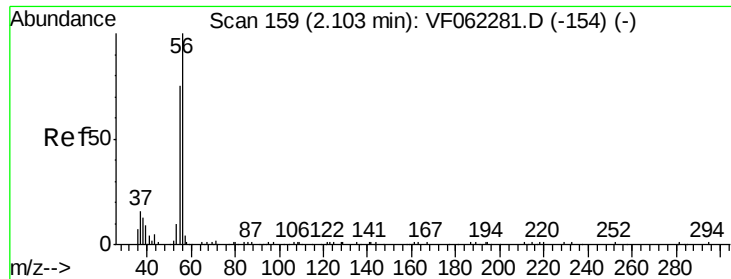


#12

1,1-Dichloroethene
Concen: 44.925 ug/l
RT: 1.88 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	96	Resp	187685
Ion Ratio	100	Lower	Upper
61	176.4	141.1	211.7
98	66.7	53.4	80.0





#13

Acrolein

Concen: 369.975 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 56044

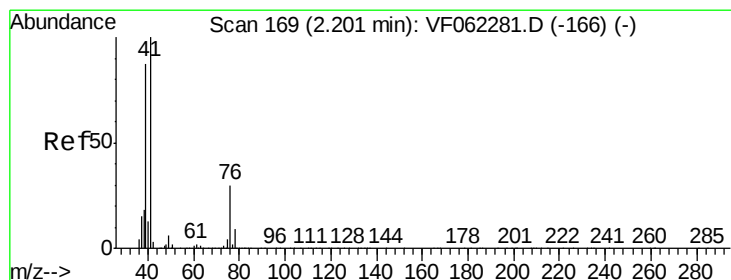
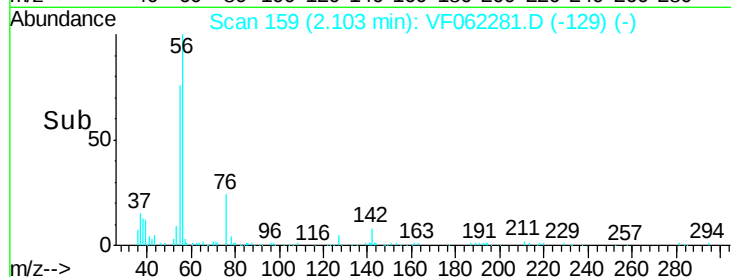
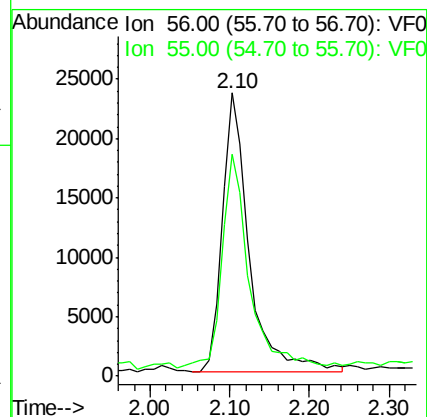
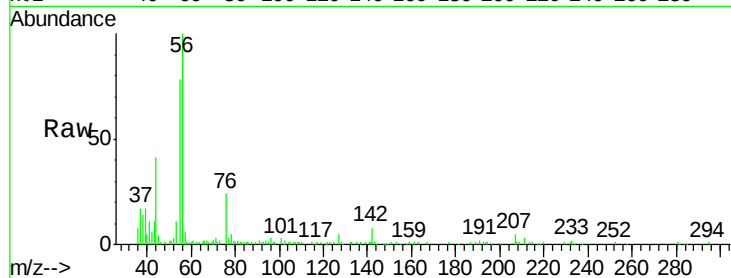
Ion Ratio Lower Upper

56 100

55 77.9 62.3 93.5

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#14

Allyl chloride

Concen: 30.137 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

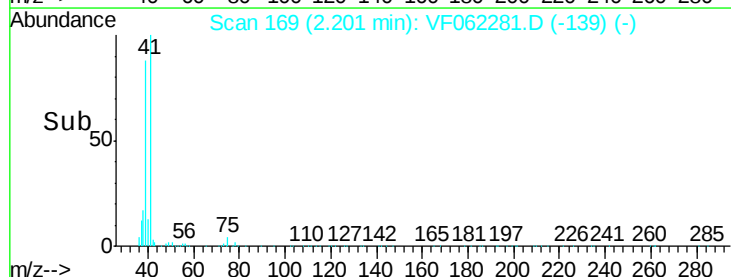
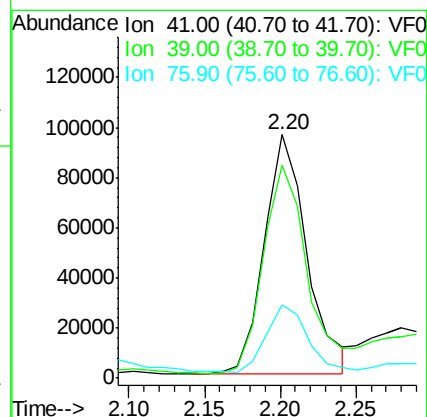
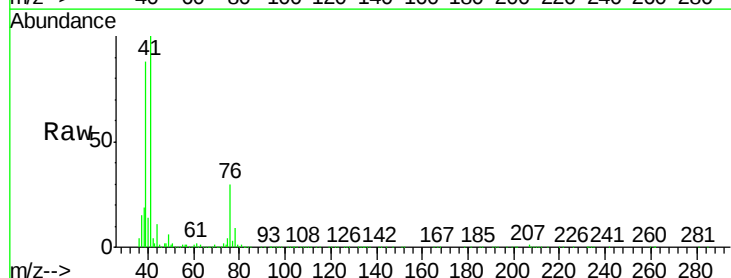
Tgt Ion: 41 Resp: 189820

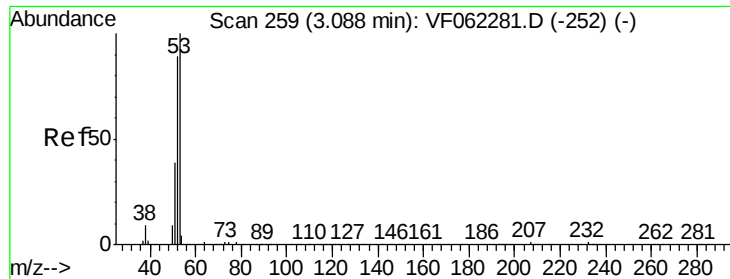
Ion Ratio Lower Upper

41 100

39 94.3 50.3 75.5#

76 27.7 14.8 22.2#





#15

Acrylonitrile

Concen: 239.232 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

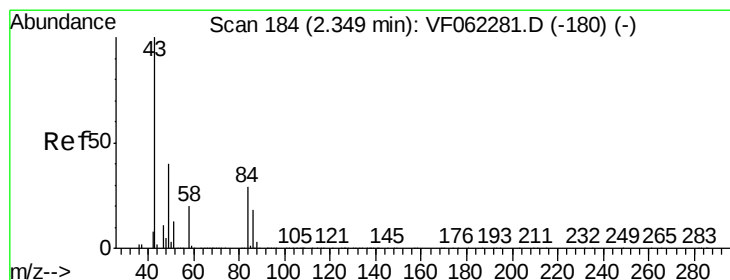
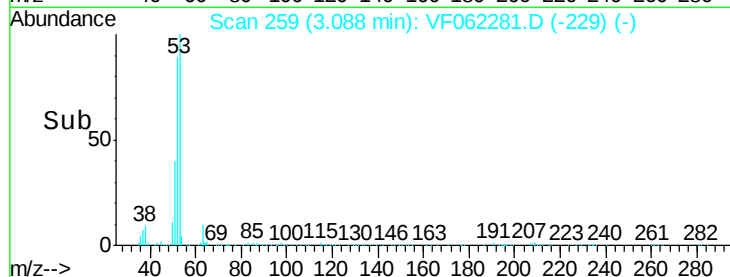
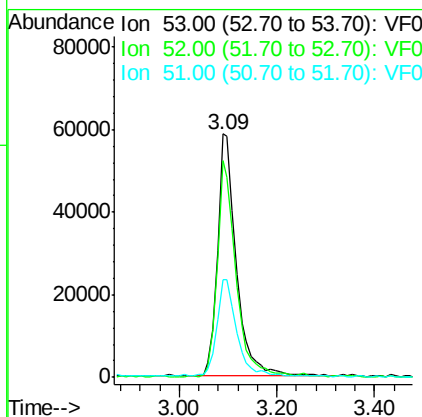
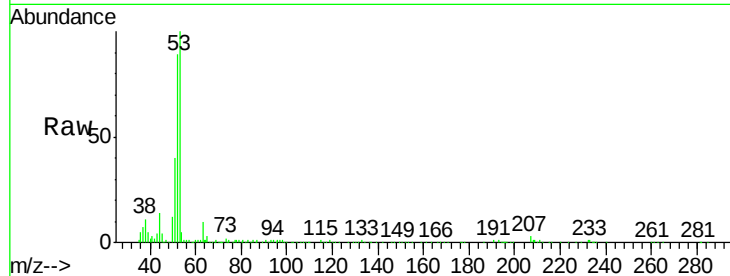
ClientSampleId :

VSTDICCC050

Tot Ion:	53	Resp:	158253
Ion Ratio	Lower	Upper	
53	100		
52	88.2	70.6	105.8
51	40.7	32.6	48.8

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#16

Acetone

Concen: 231.442 ug/l

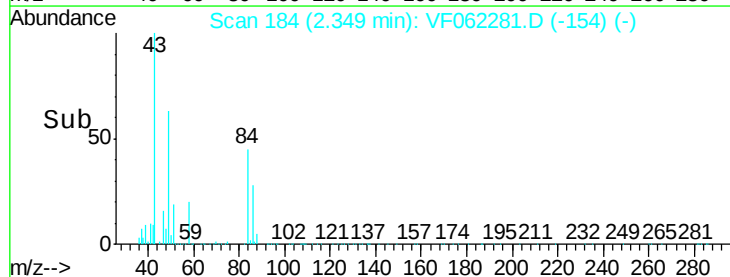
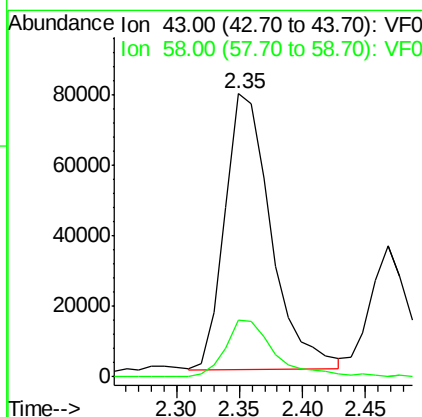
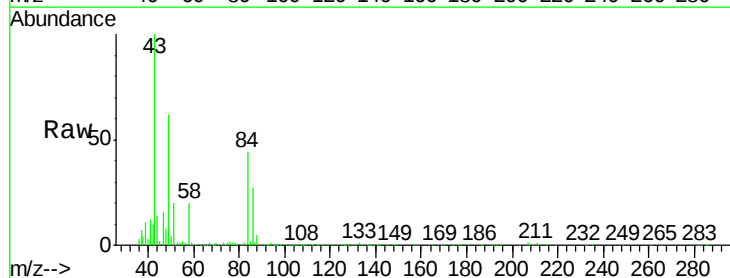
RT: 2.35 min Scan# 184

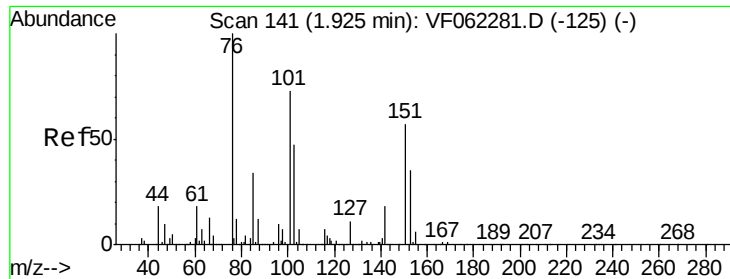
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	43	Resp:	198639
Ion Ratio	Lower	Upper	
43	100		
58	20.5	16.4	24.6





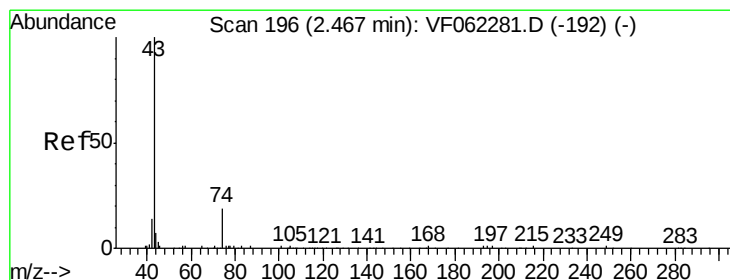
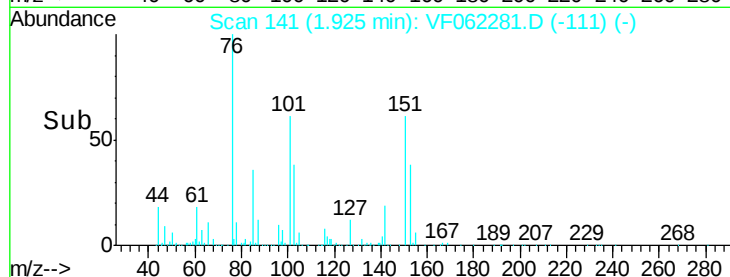
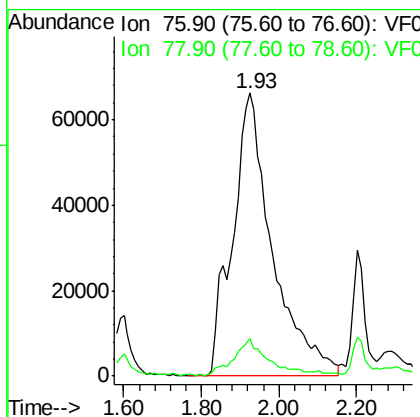
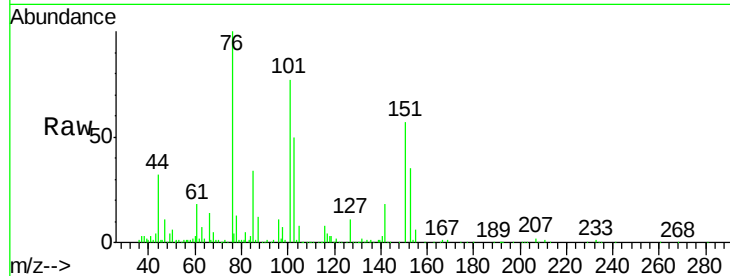
#17
Carbon Disulfide
Concen: 43.620 ug/l
RT: 1.93 min Scan# 141
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion: 76 Resp: 472532
Ion Ratio Lower Upper
76 100
78 12.3 9.8 14.8

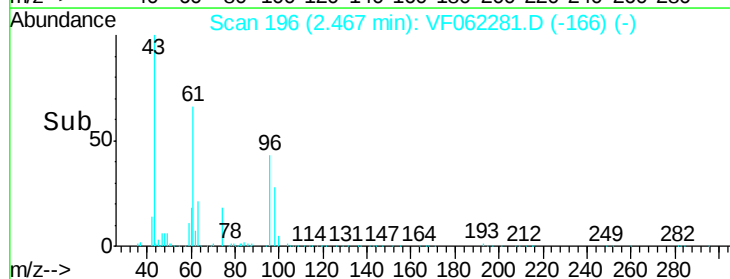
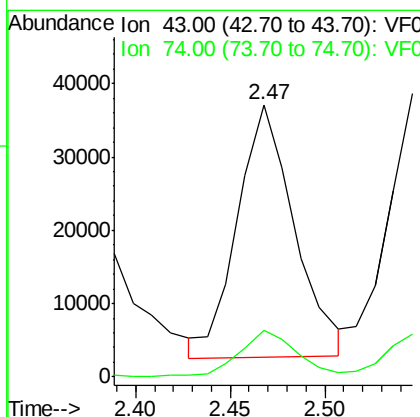
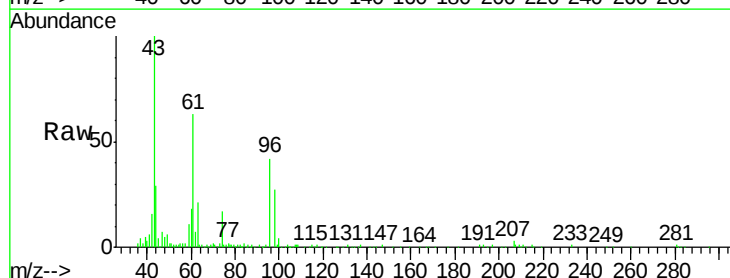
Manual Integrations
APPROVED

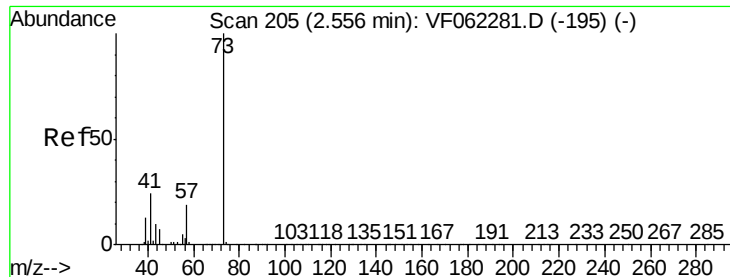
MMDadoda
4/26/2019 9:21:00 AM



#18
Methyl Acetate
Concen: 33.824 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion: 43 Resp: 71977
Ion Ratio Lower Upper
43 100
74 18.0 14.4 21.6





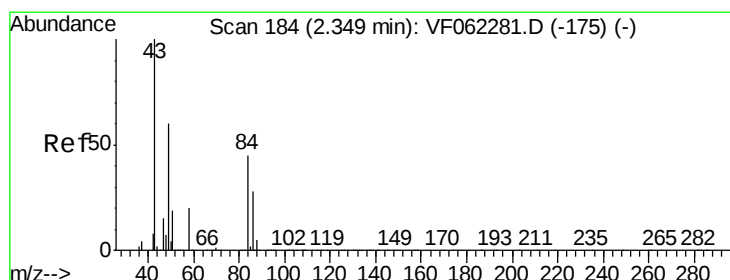
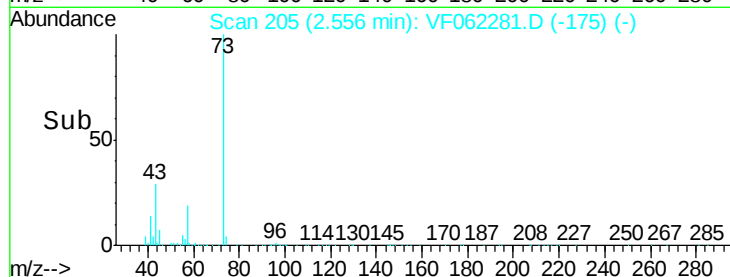
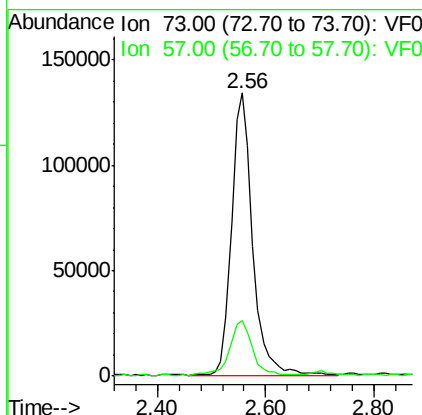
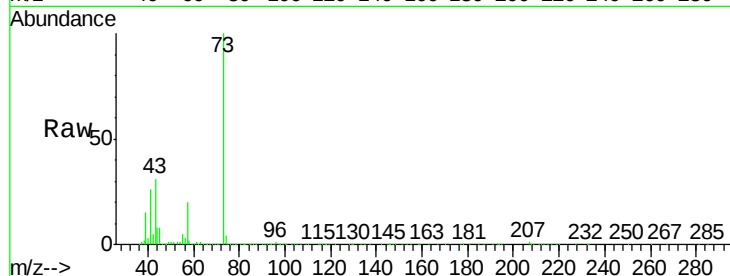
#19
Methvl tert-butvl Ether
Concen: 48.012 ug/l
RT: 2.56 min Scan# 205
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion: 73 Resp: 369573
Ion Ratio Lower Upper
73 100
57 19.4 15.5 23.3

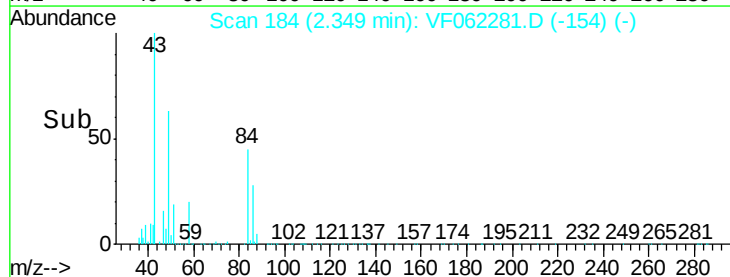
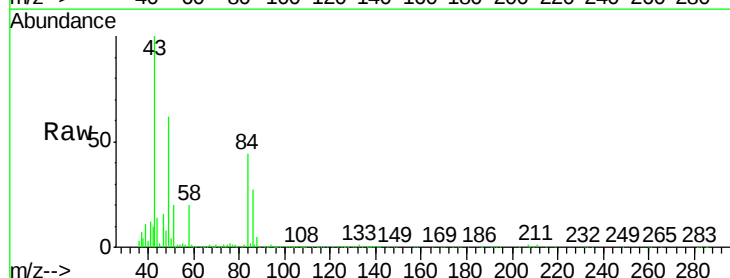
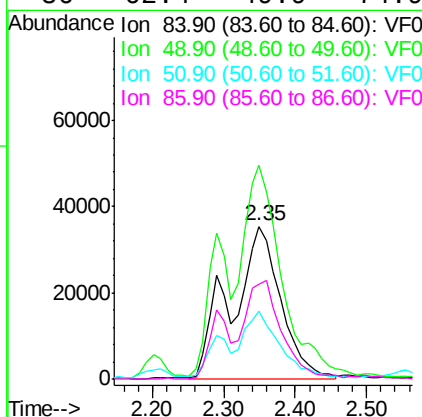
Manual Integrations
APPROVED

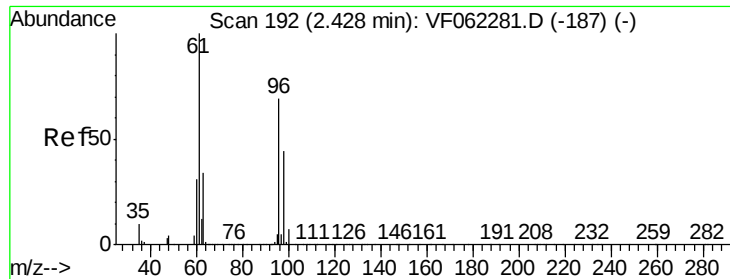
MMDadoda
4/26/2019 9:21:00 AM



#20
Methylene Chloride
Concen: 31.521 ug/l m
RT: 2.35 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion: 84 Resp: 171157
Ion Ratio Lower Upper
84 100
49 140.1 112.1 168.1
51 44.9 35.9 53.9
86 62.4 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 43.650 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

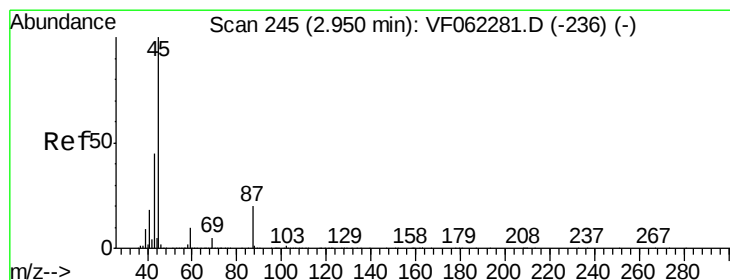
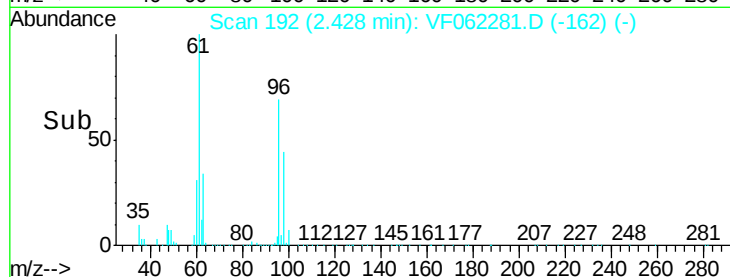
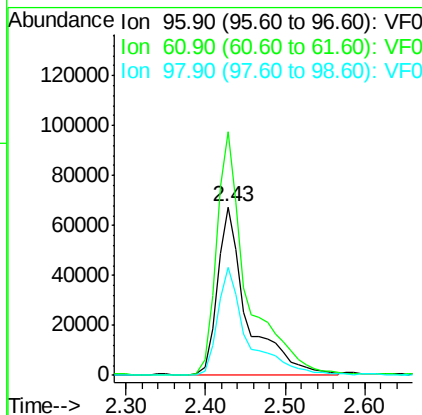
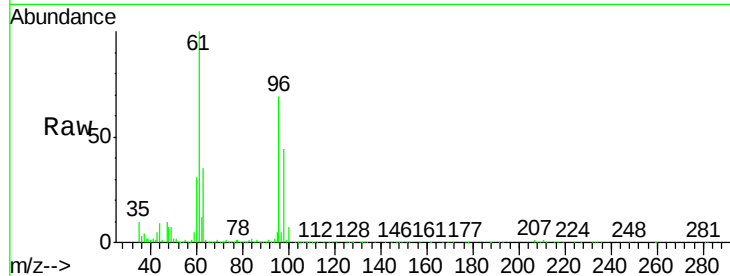
ClientSampleId :

VSTDICCC050

Tot Ion:	96	Resp:	175152
Ion	Ratio	Lower	Upper
96	100		
61	145.2	116.2	174.2
98	64.2	51.4	77.0

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#22

Diisopropyl ether

Concen: 43.182 ug/l

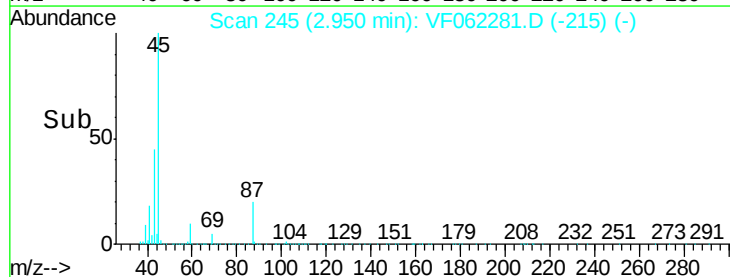
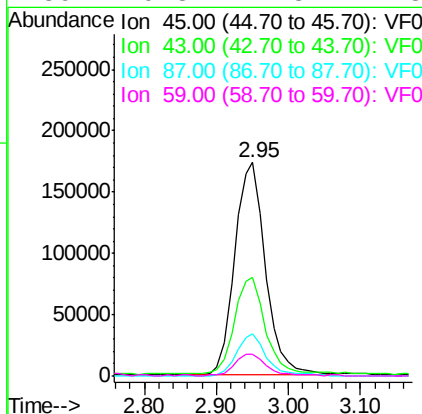
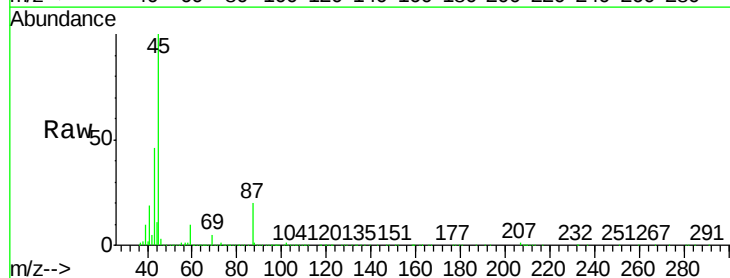
RT: 2.95 min Scan# 245

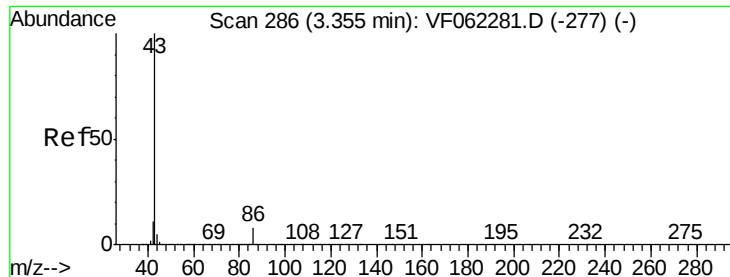
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	45	Resp:	517683
Ion	Ratio	Lower	Upper
45	100		
43	45.2	36.2	54.2
87	19.7	15.8	23.6
59	9.8	7.8	11.8





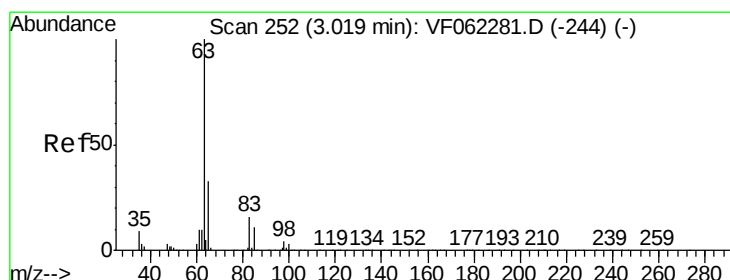
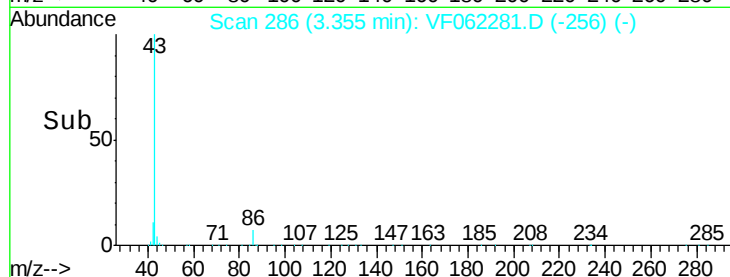
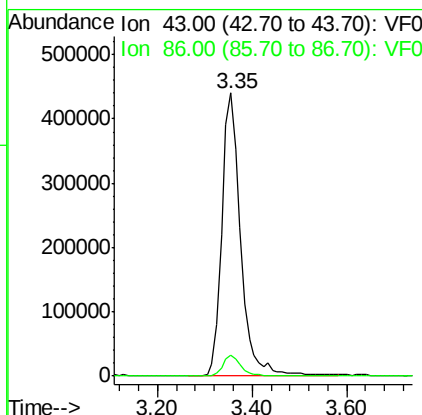
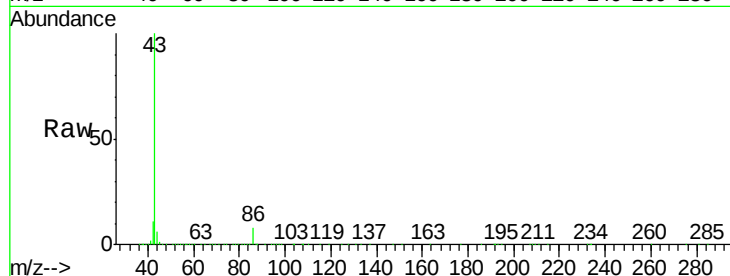
#23
 Vinyl Acetate
 Concen: 231.299 ug/l
 RT: 3.35 min Scan# 286
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion: 43 Resp: 1201346
 Ion Ratio Lower Upper
 43 100
 86 7.5 6.0 9.0

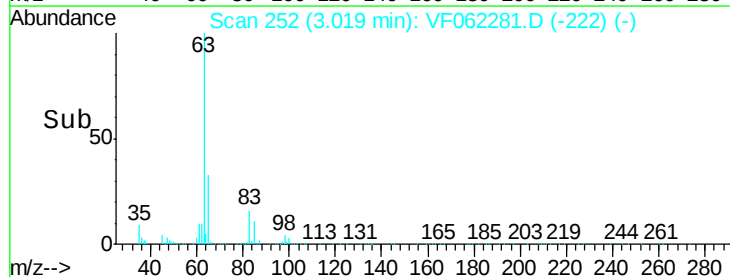
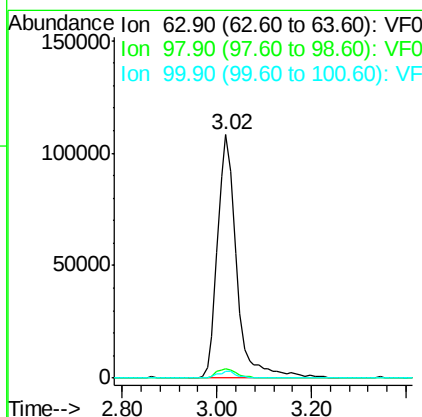
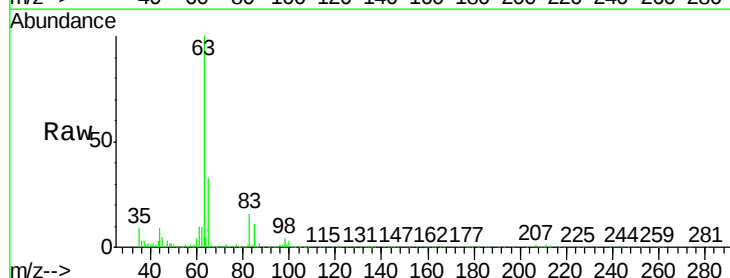
Manual Integrations
 APPROVED

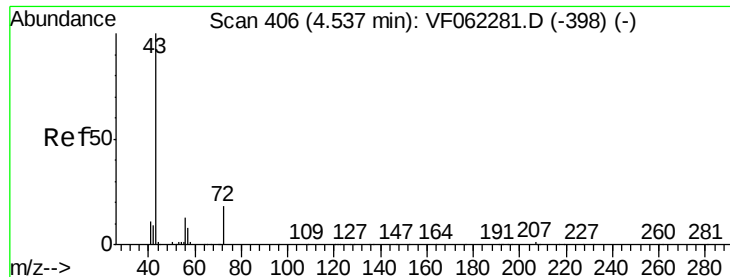
MMDadoda
 4/26/2019 9:21:00 AM



#24
 1,1-Dichloroethane
 Concen: 44.655 ug/l
 RT: 3.02 min Scan# 252
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion: 63 Resp: 300317
 Ion Ratio Lower Upper
 63 100
 98 4.1 2.1 6.2
 100 3.0 1.5 4.5





#25

2-Butanone

Concen: 222.807 ug/l

RT: 4.54 min Scan# 406

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tot Ion: 43 Resp: 303078

Ion Ratio Lower Upper

43 100

72 19.7 15.8 23.6

Instrument :

MSVOA_F

ClientSampleId :

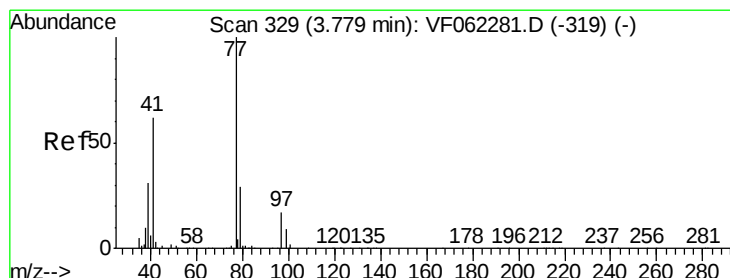
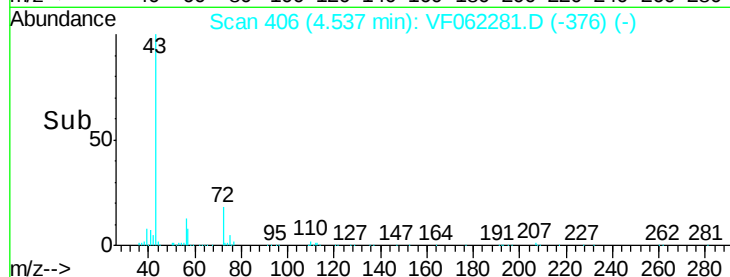
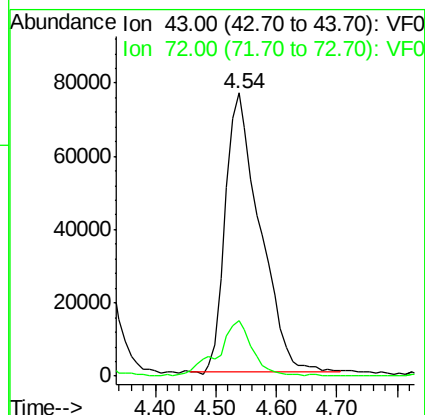
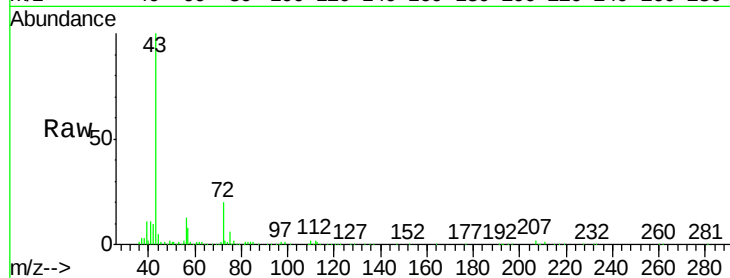
VSTDICCC050

Manual Integrations

APPROVED

MMDadoda

4/26/2019 9:21:00 AM



#26

2,2-Dichloropropane

Concen: 45.682 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.00 min

Lab File: VF062281.D

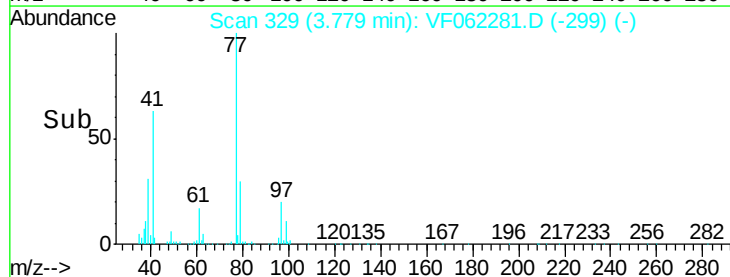
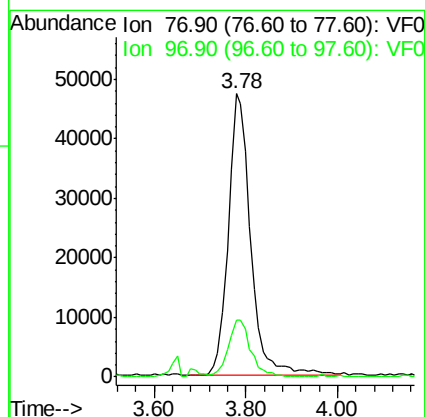
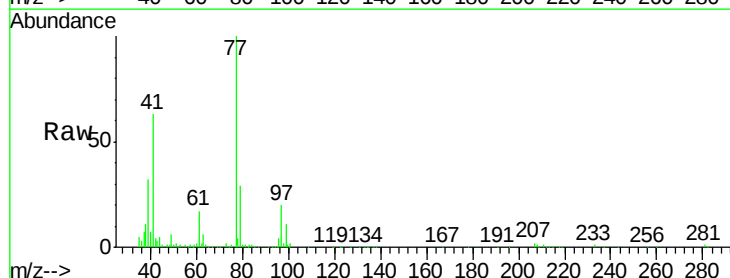
Acq: 24 Apr 2019 15:12

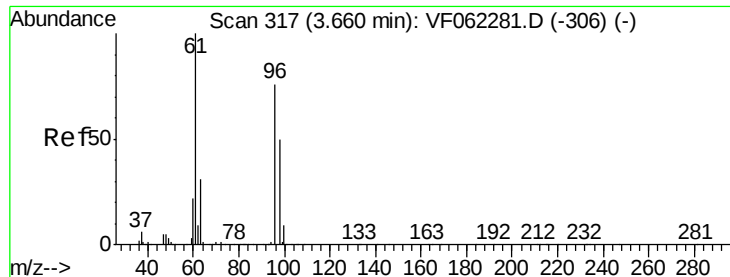
Tgt Ion: 77 Resp: 160456

Ion Ratio Lower Upper

77 100

97 20.5 10.3 30.8





#27

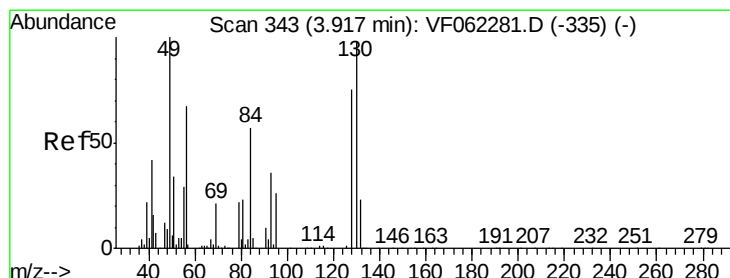
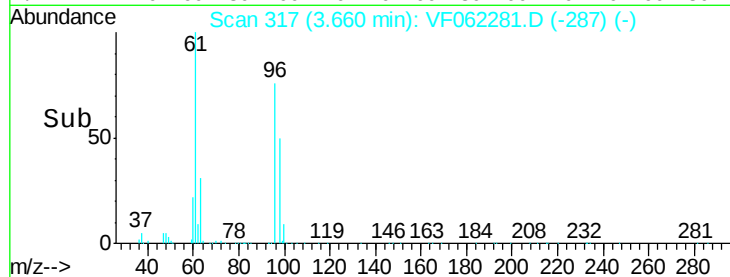
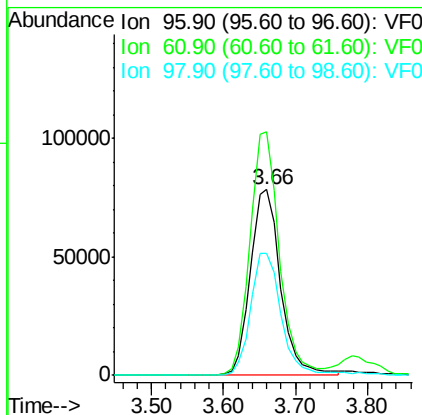
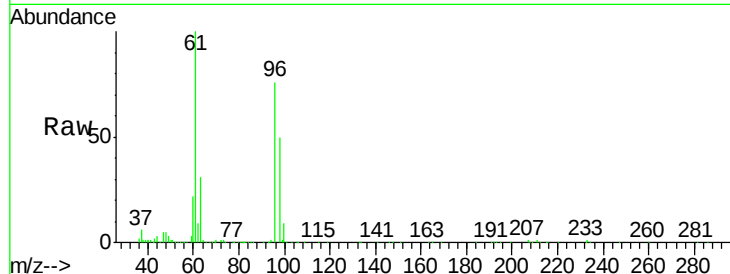
cis-1,2-Dichloroethene
Concen: 44.479 ug/l
RT: 3.66 min Scan# 317
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	228304		
61	128.8	0.0	257.6	
98	68.7	0.0	137.4	

Manual Integrations
APPROVED

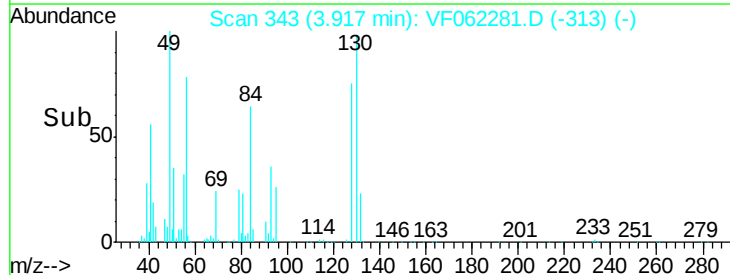
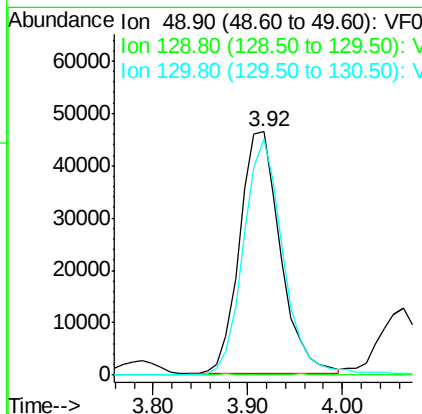
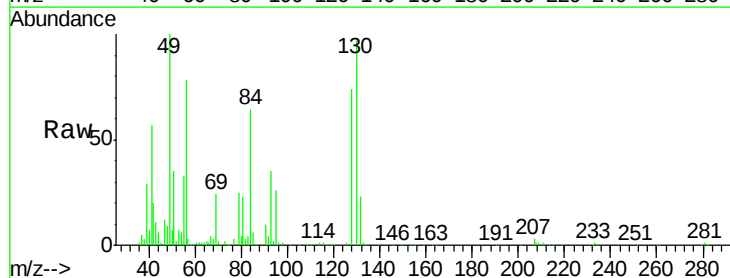
MMDadoda
4/26/2019 9:21:00 AM

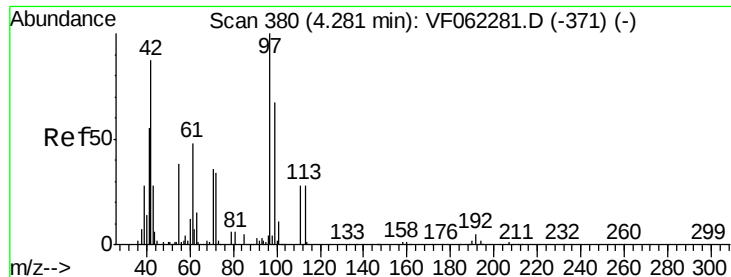


#28

Bromochloromethane
Concen: 46.898 ug/l
RT: 3.92 min Scan# 343
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	137934		
129	0.0	0.0	0.0	
130	96.2	77.0	115.4	





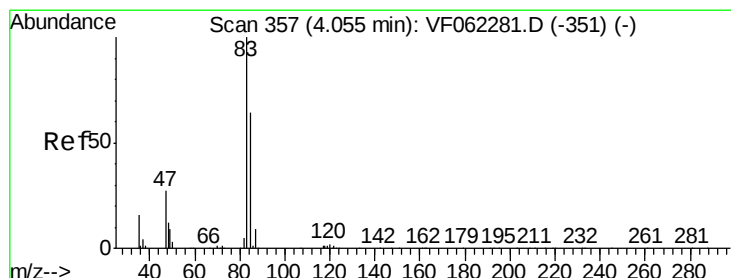
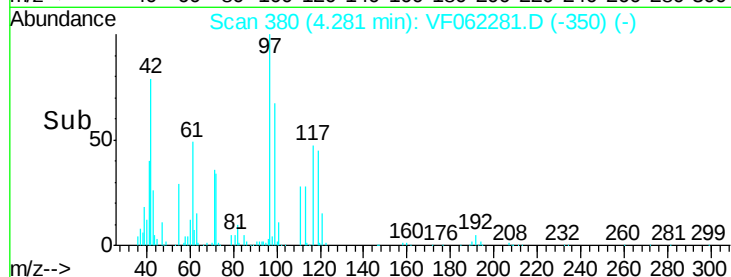
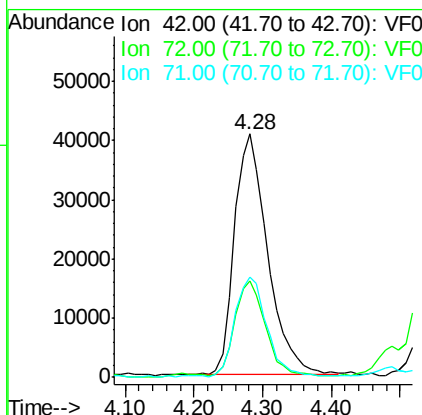
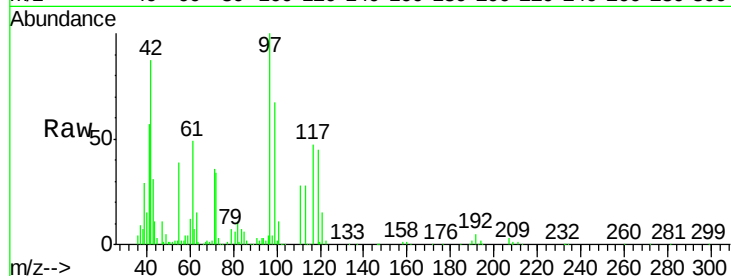
#29
Tetrahydrofuran
Concen: 230.795 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.6	29.3	43.9
71	39.0	31.2	46.8

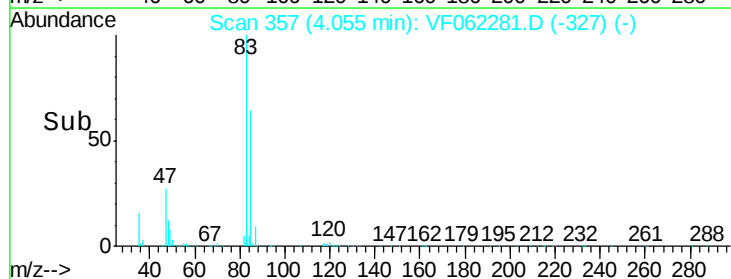
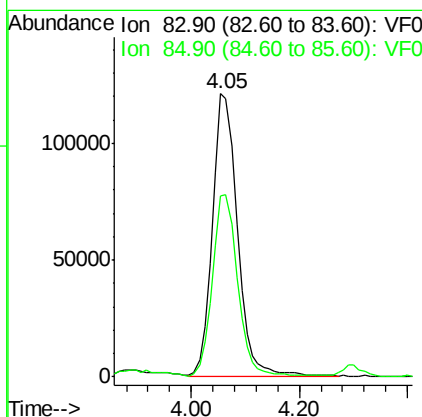
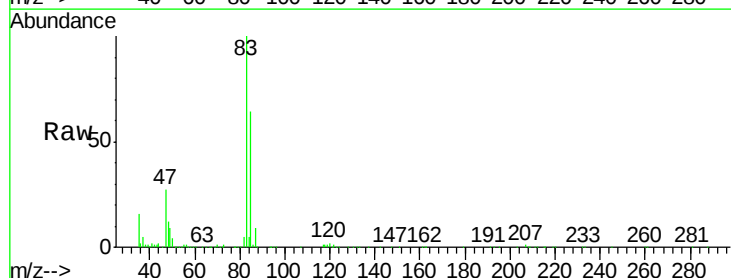
Manual Integrations
APPROVED

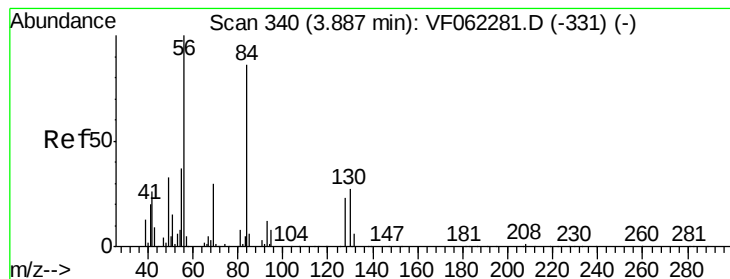
MMDadoda
4/26/2019 9:21:00 AM



#30
Chloroform
Concen: 46.369 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7





#31

Cyclohexane

Concen: 45.225 ug/l

RT: 3.89 min Scan# 340

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

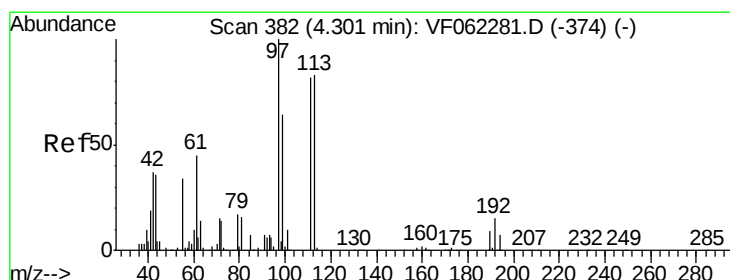
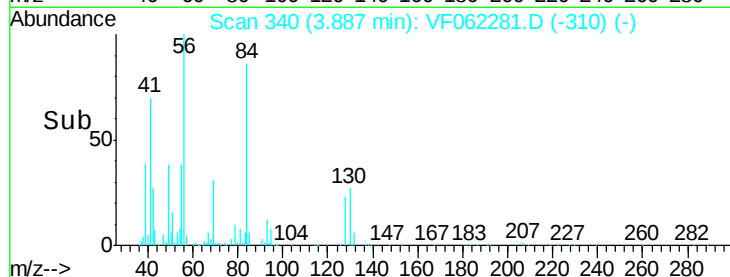
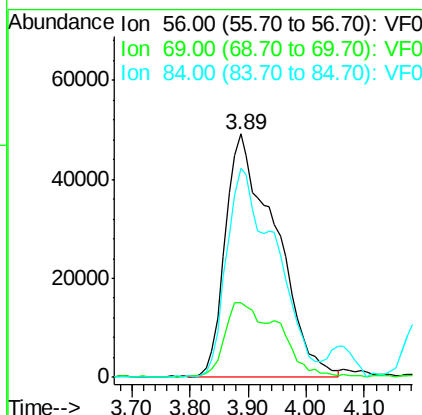
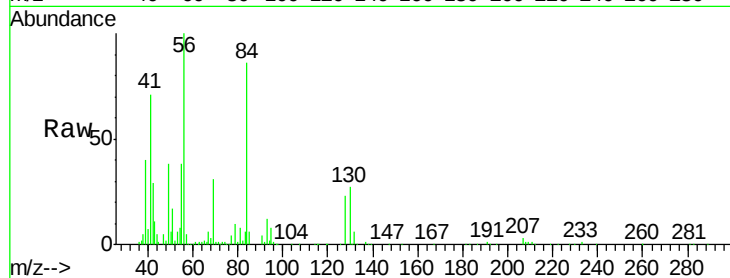
ClientSampleId :

VSTDICCC050

Tot Ion:	56	Resp:	294214
Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.3	36.5
84	85.6	68.5	102.7

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#32

1,1,1-Trichloroethane

Concen: 49.219 ug/l m

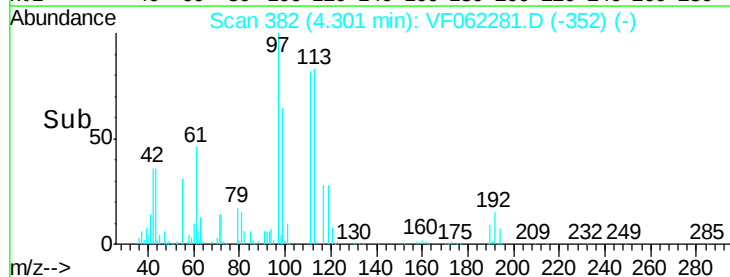
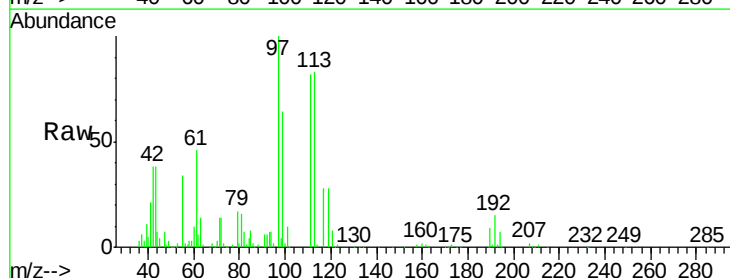
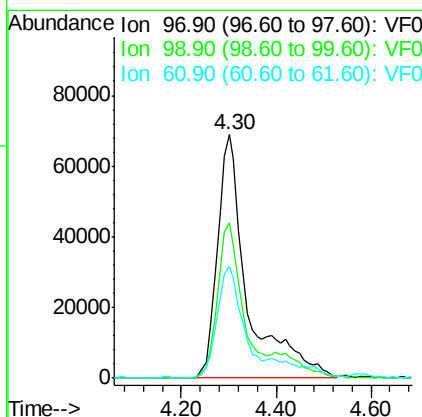
RT: 4.30 min Scan# 382

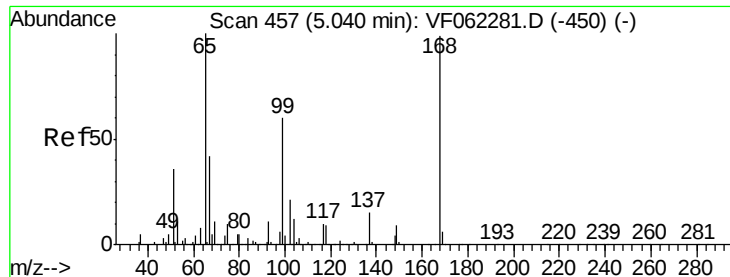
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	97	Resp:	307474
Ion	Ratio	Lower	Upper
97	100		
99	52.3	41.6	62.4
61	39.8	31.6	47.4





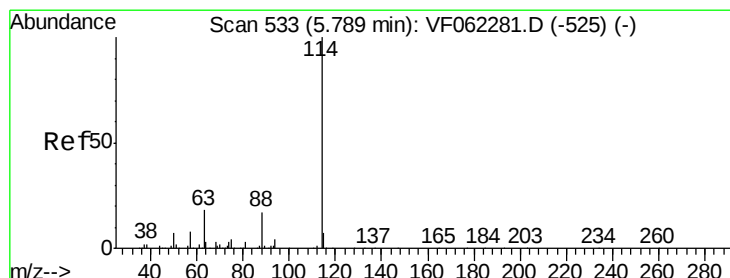
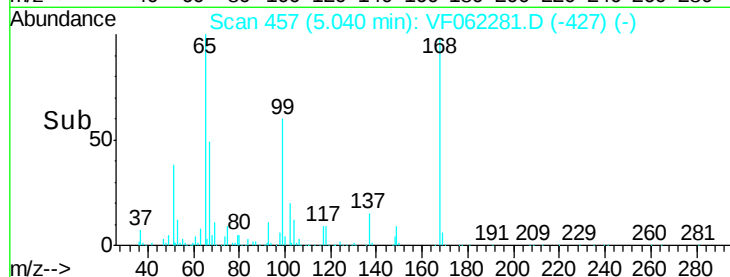
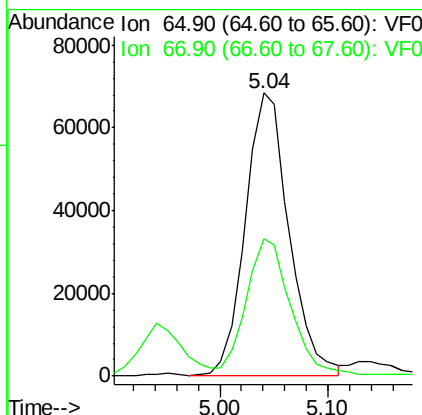
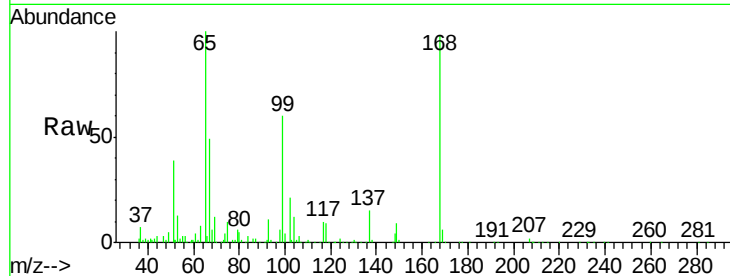
#33
 1,2-Dichloroethane-d4
 Concen: 49.662 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	190777		
67	49.4	0.0	98.8	

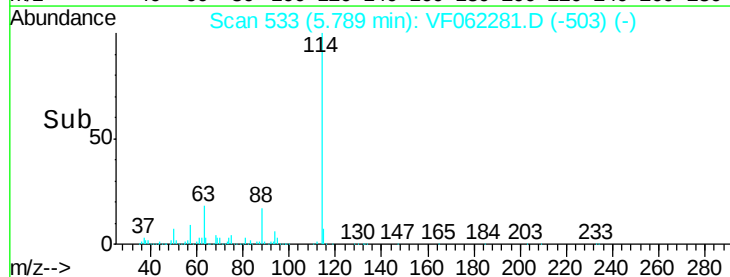
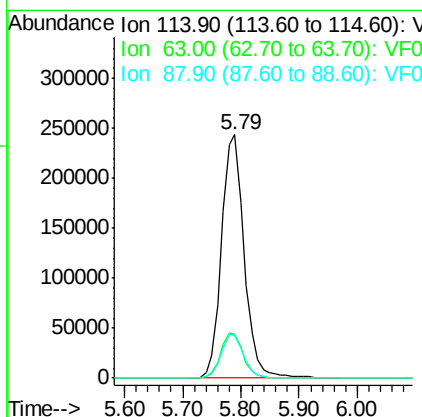
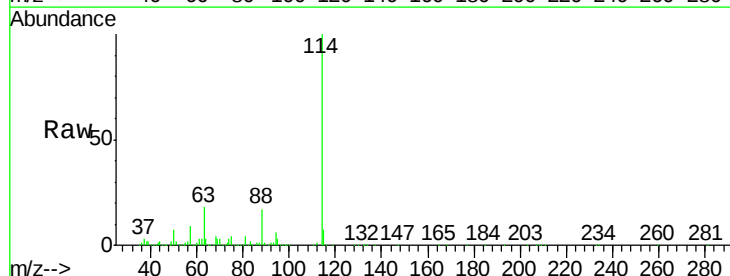
Manual Integrations
 APPROVED

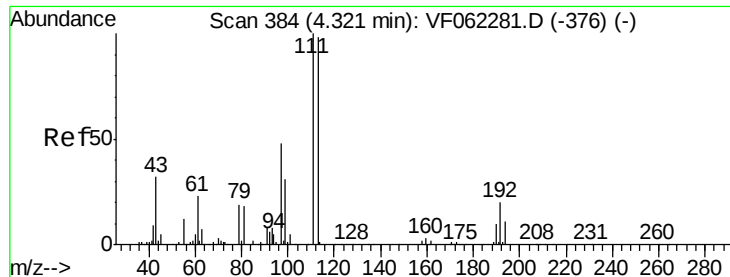
MMDadoda
 4/26/2019 9:21:00 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	656655		
63	17.8	0.0	35.6	
88	17.3	0.0	34.6	





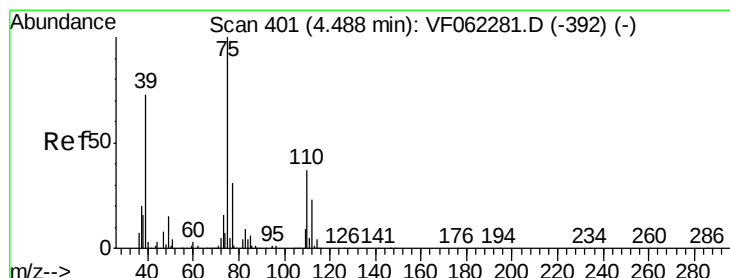
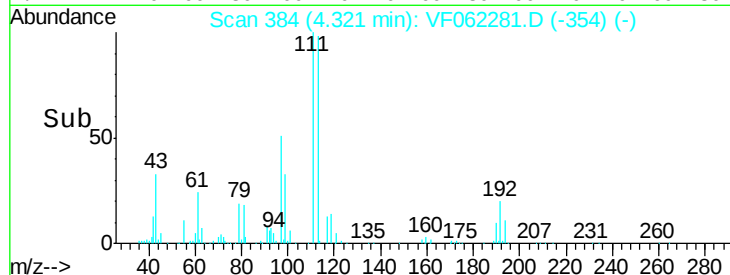
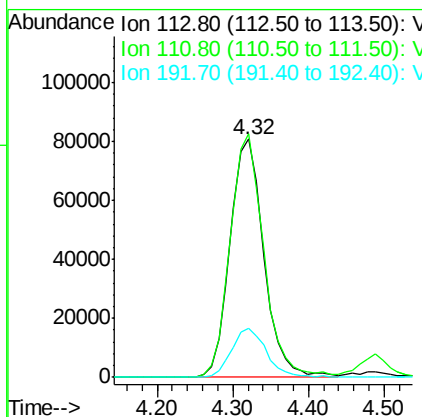
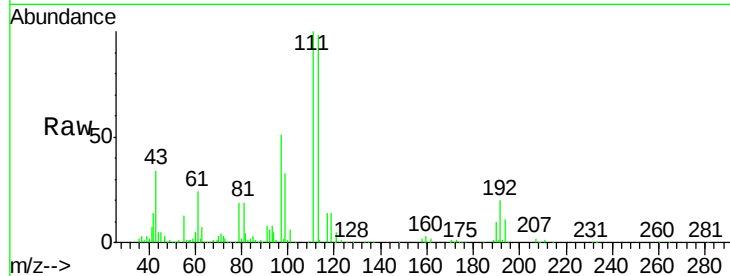
#35
 Dibromofluoromethane
 Concen: 49.943 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	249591		
111	101.8	81.4	122.2	
192	21.2	17.0	25.4	

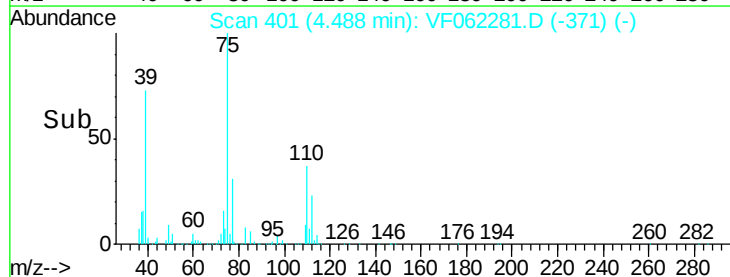
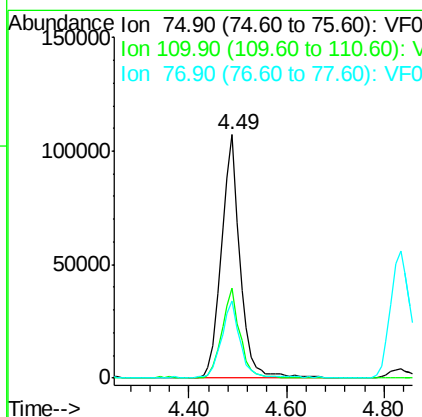
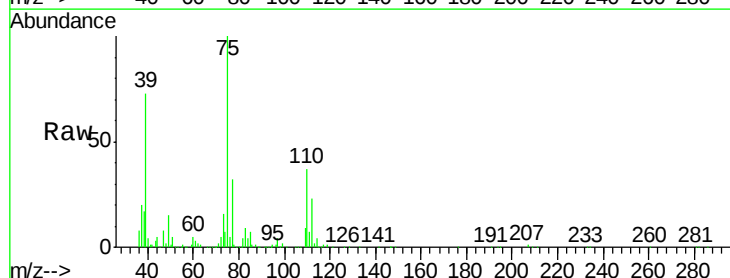
Manual Integrations
 APPROVED

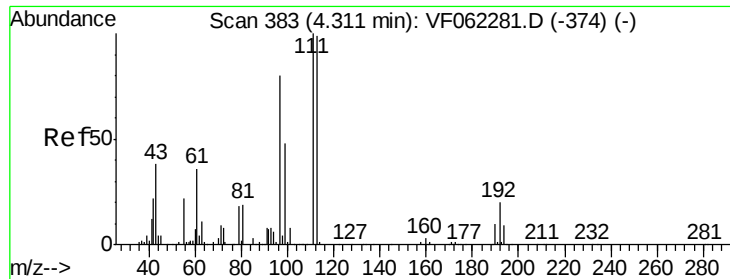
MMDadoda
 4/26/2019 9:21:00 AM



#36
 1,1-Dichloropropene
 Concen: 45.653 ug/l
 RT: 4.49 min Scan# 401
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	284725		
110	35.9	17.9	53.8	
77	30.7	24.6	36.8	





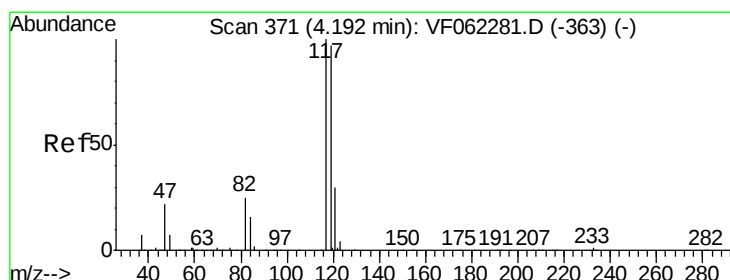
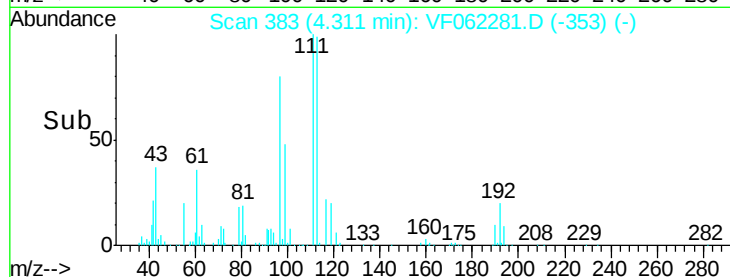
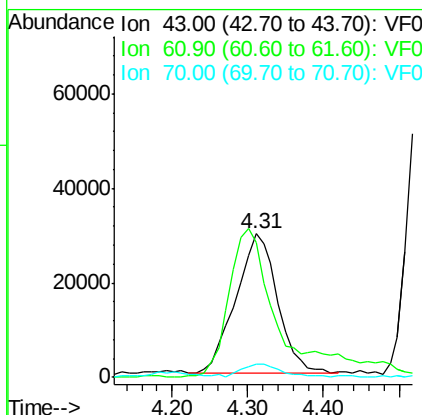
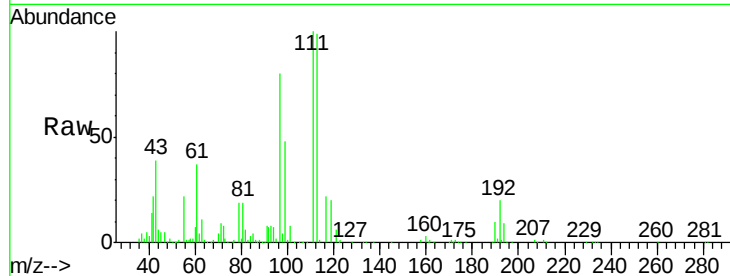
#37
Ethyl Acetate
Concen: 44.542 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	107.2	85.8	128.6
70	9.1	7.3	10.9

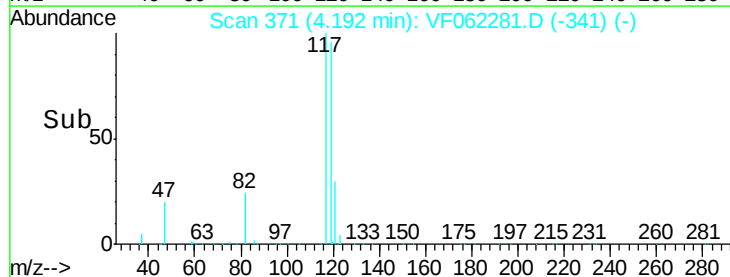
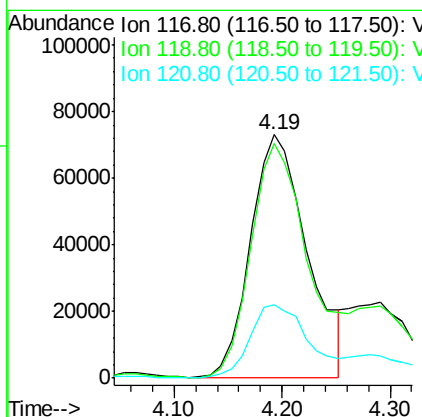
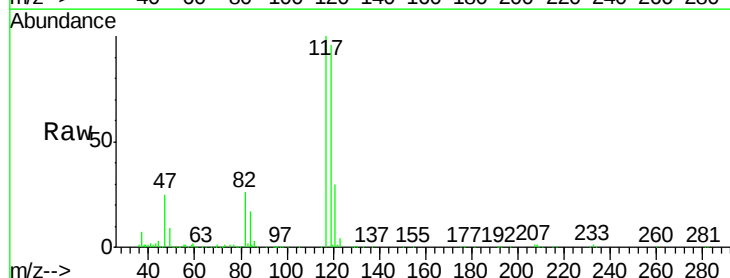
Manual Integrations
APPROVED

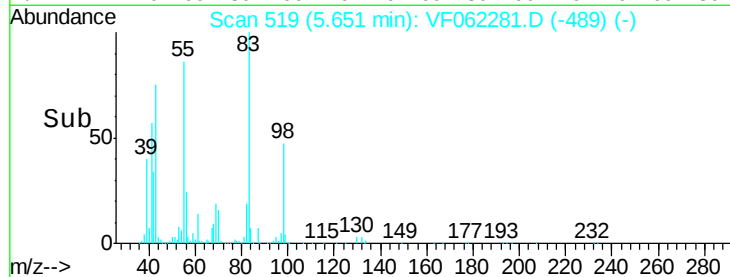
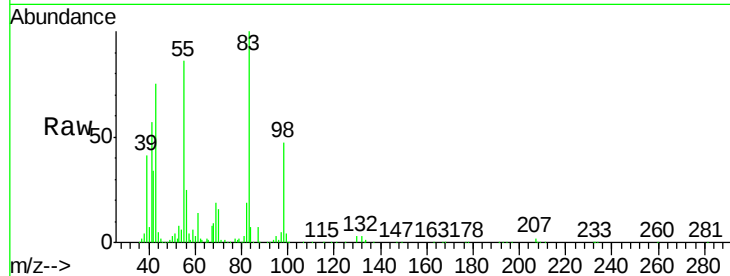
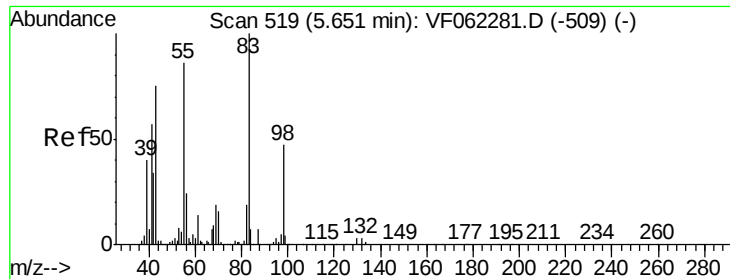
MMDadoda
4/26/2019 9:21:00 AM



#38
Carbon Tetrachloride
Concen: 43.521 ug/l
RT: 4.19 min Scan# 371
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.3	115.9
121	30.4	24.3	36.5





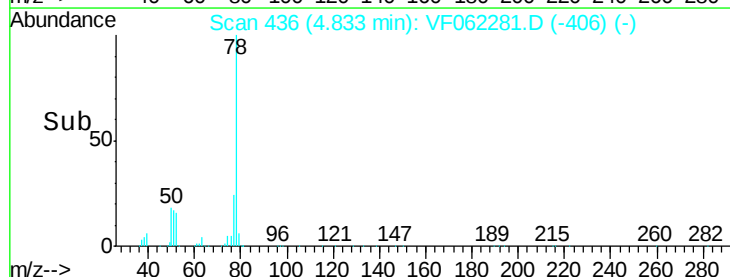
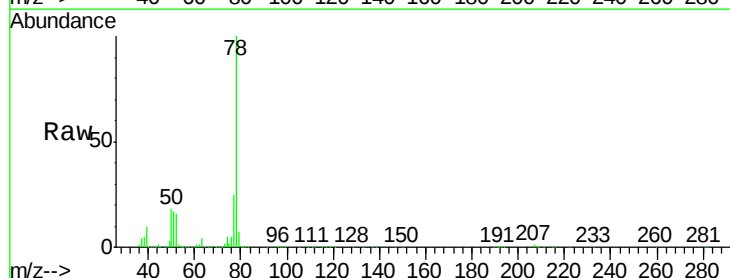
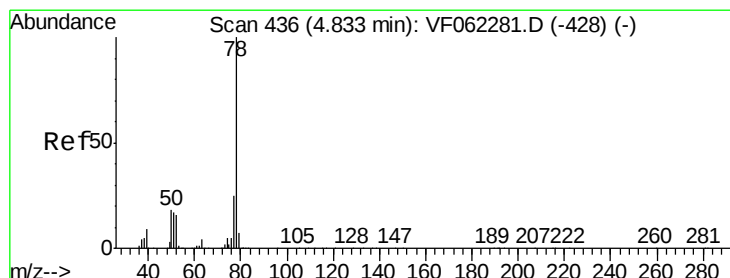
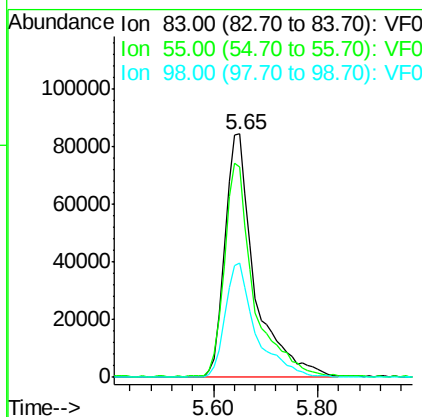
#39
Methylcyclohexane
Concen: 45.519 ug/l
RT: 5.65 min Scan# 519
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.9	68.7	103.1
98	46.8	37.4	56.2

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

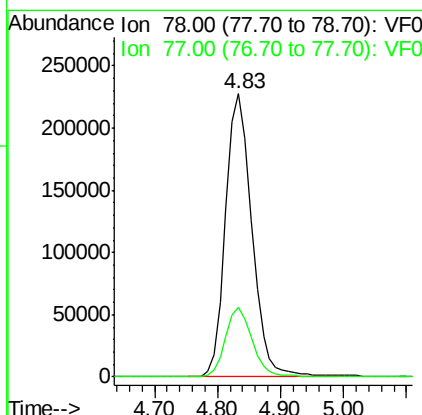
Manual Integrations
APPROVED

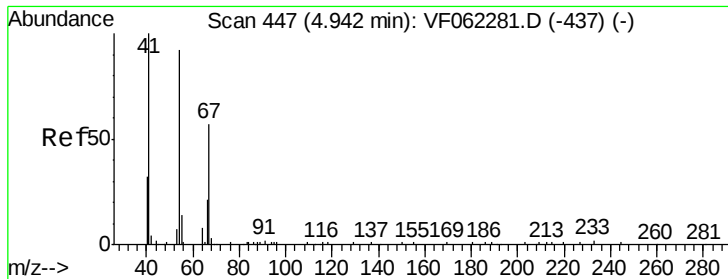
MMDadoda
4/26/2019 9:21:00 AM



#40
Benzene
Concen: 44.012 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.7	29.5





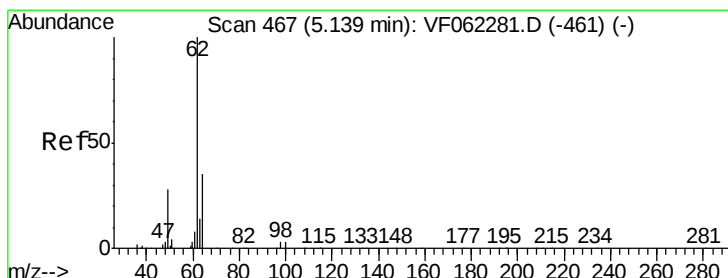
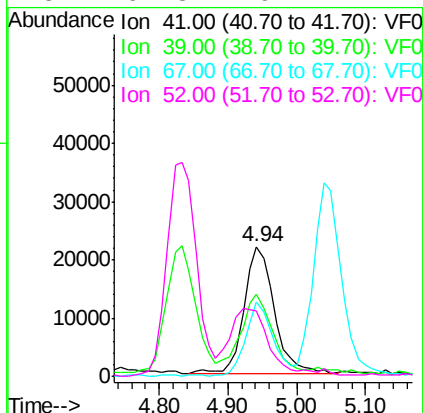
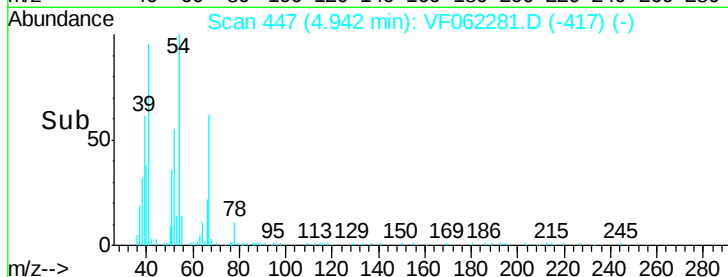
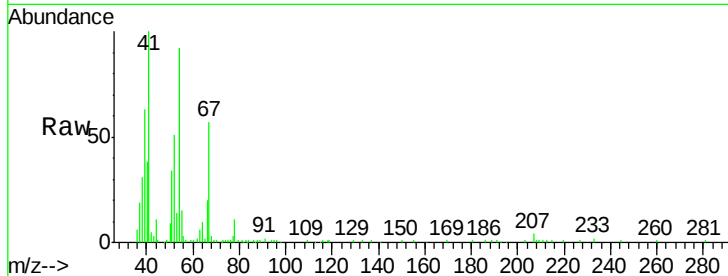
#41
Methacrylonitrile
Concen: 47.377 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		67766		
39	59.1	47.3	70.9		
67	51.6	41.3	61.9		
52	61.8	49.4	74.2		

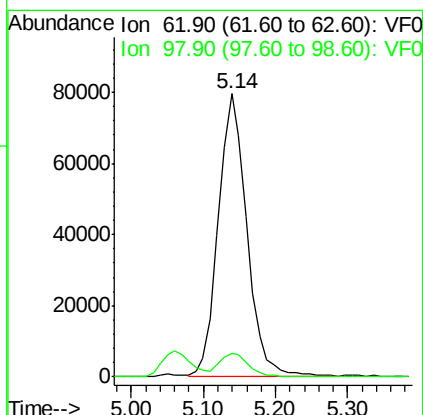
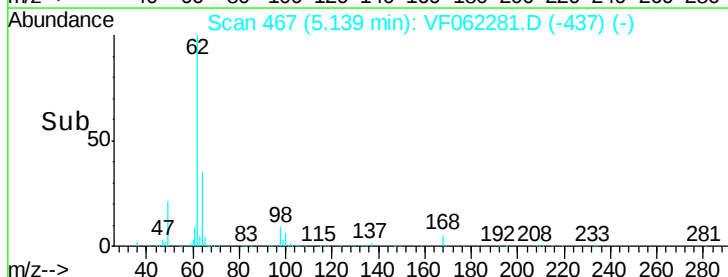
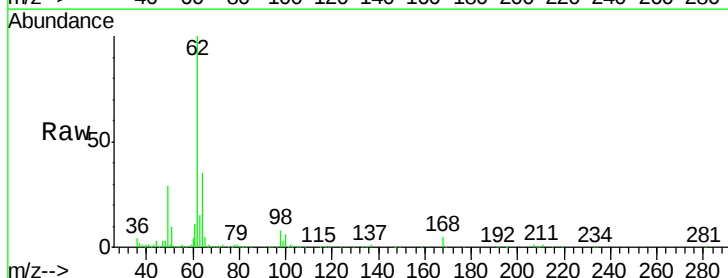
Manual Integrations
APPROVED

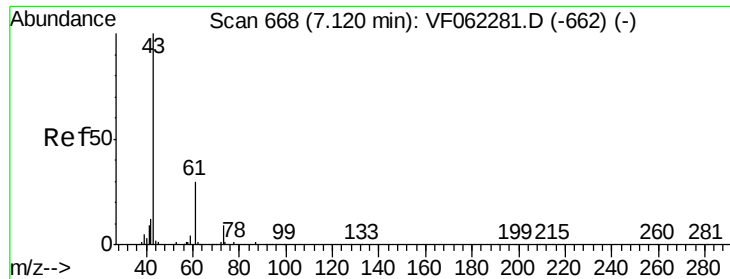
MMDadoda
4/26/2019 9:21:00 AM



#42
1,2-Dichloroethane
Concen: 46.794 ug/l
RT: 5.14 min Scan# 467
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		216168		
98	8.4	0.0	16.8		





#43

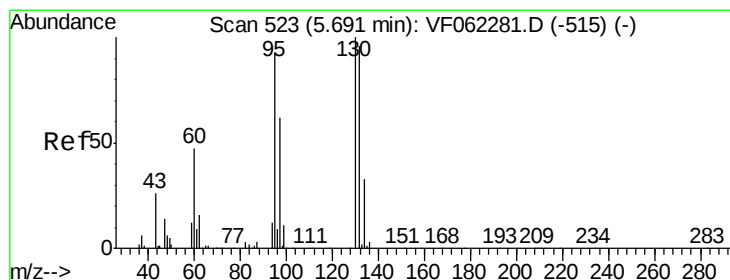
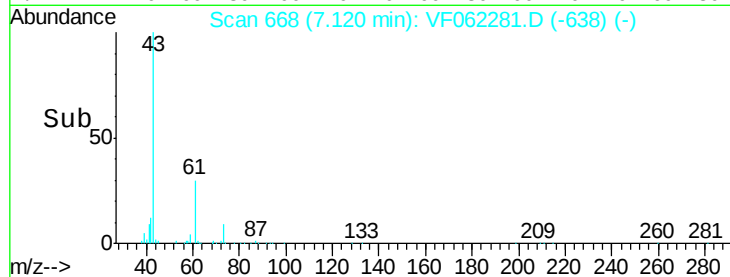
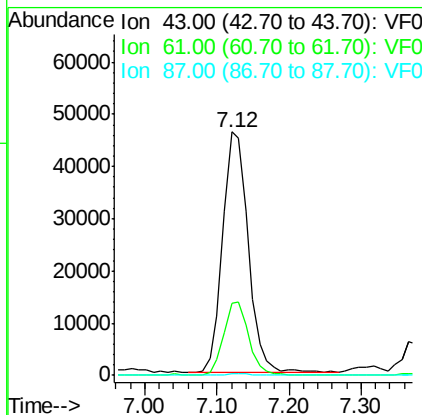
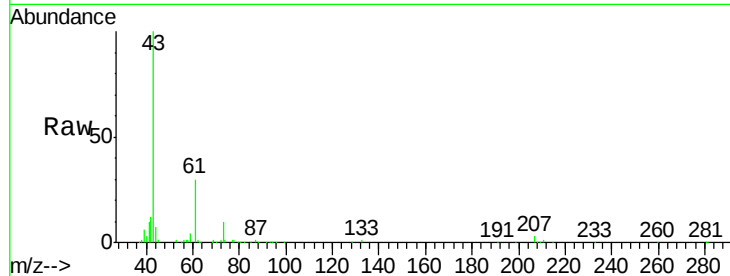
Isopropyl Acetate
 Concen: 42.363 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.7	23.8	35.6
87	0.6	0.5	0.7

Manual Integrations
 APPROVED

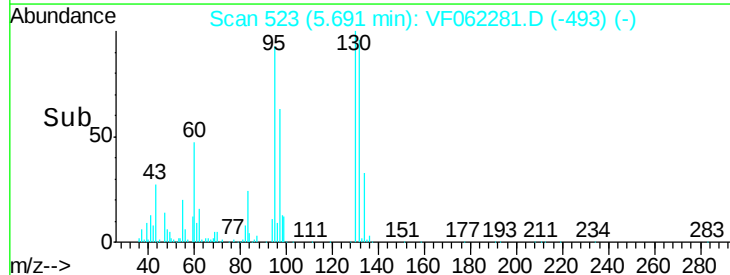
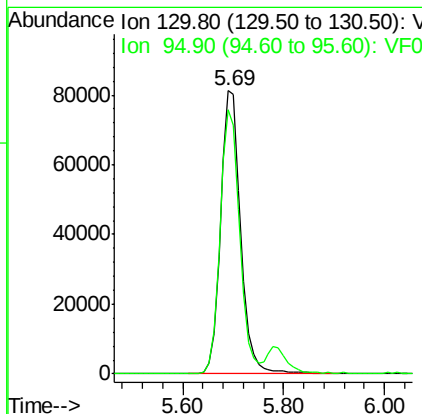
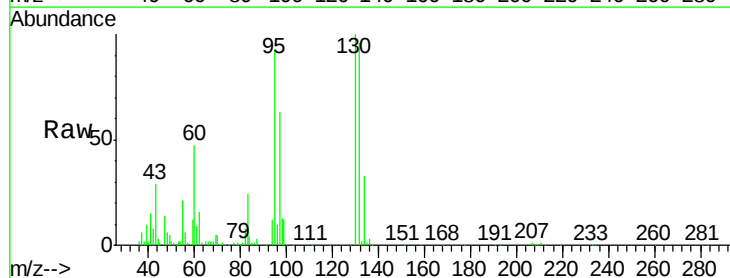
MMDadoda
 4/26/2019 9:21:00 AM

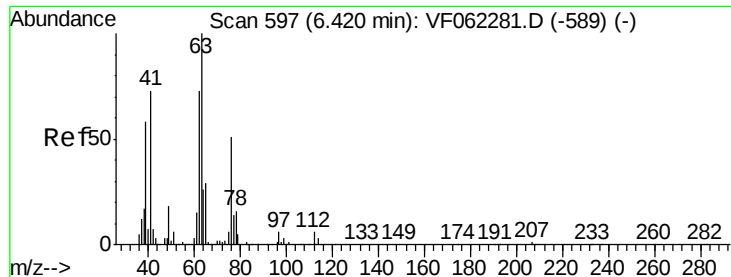


#44

Trichloroethene
 Concen: 44.101 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	186.4





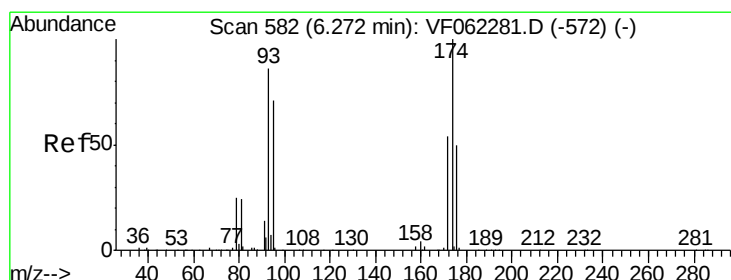
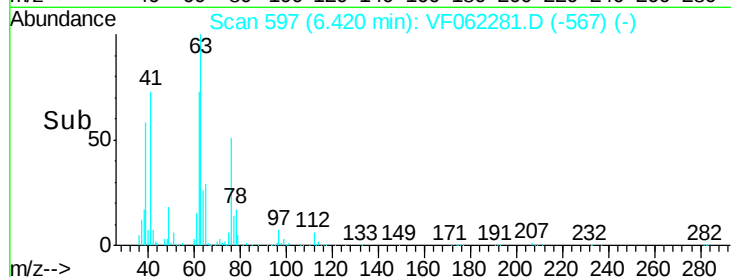
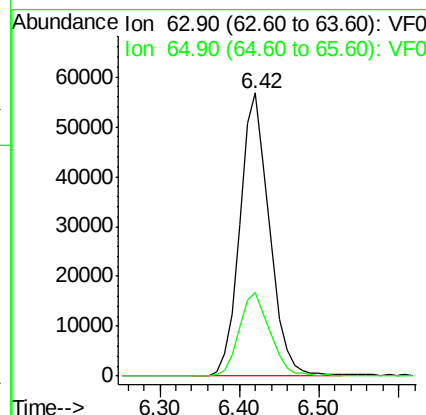
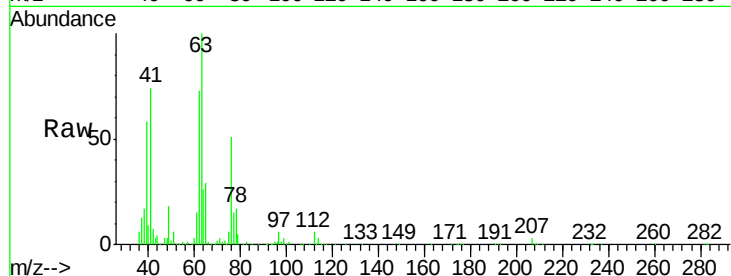
#45
 1,2-Dichloropropane
 Concen: 44.094 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.4	23.5	35.3

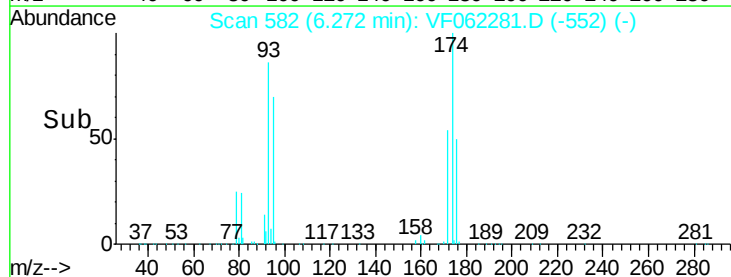
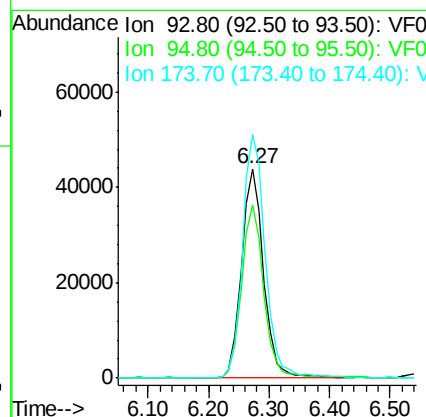
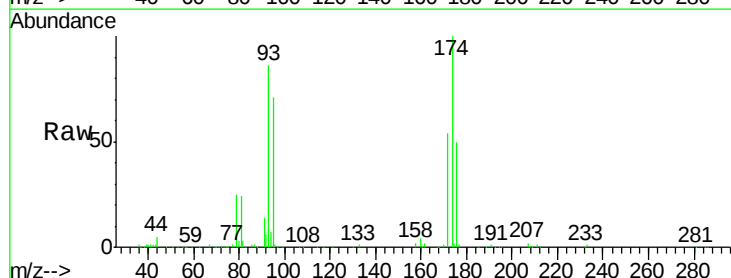
Manual Integrations
 APPROVED

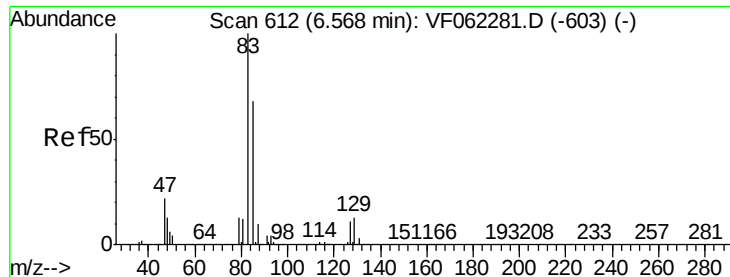
MMDadoda
 4/26/2019 9:21:00 AM



#46
 Dibromomethane
 Concen: 46.188 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.4
174	118.6	94.9	142.3





#47

Bromodichloromethane

Concen: 45.171 ug/l

RT: 6.57 min Scan# 612

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

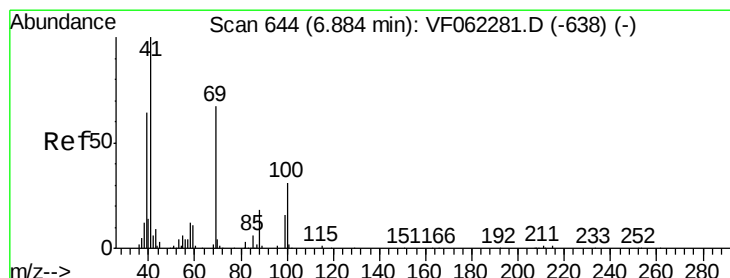
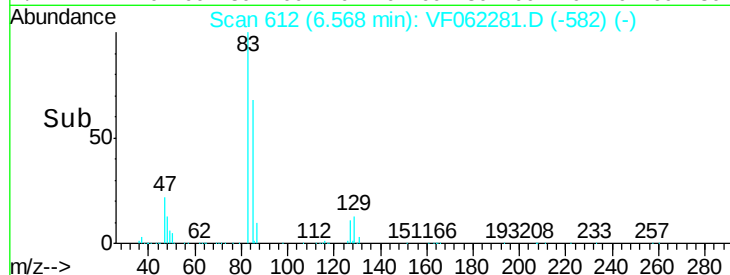
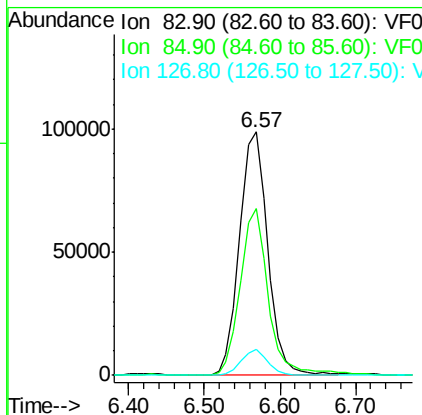
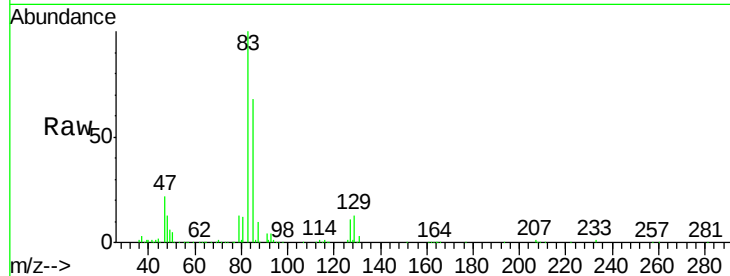
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	255257
Ion Ratio	Lower	Upper	
83	100		
85	68.2	54.6	81.8
127	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#48

Methyl methacrylate

Concen: 43.316 ug/l

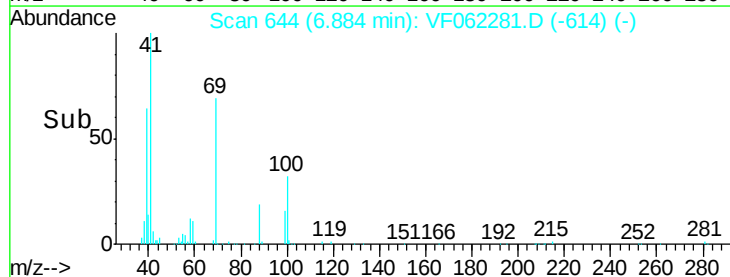
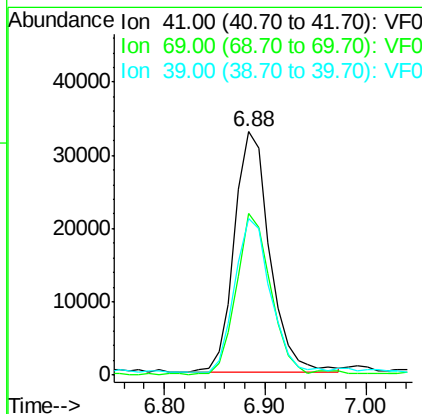
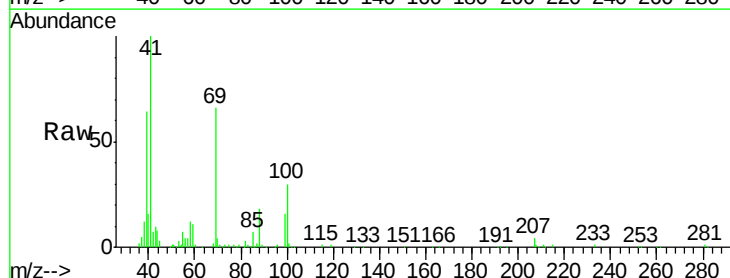
RT: 6.88 min Scan# 644

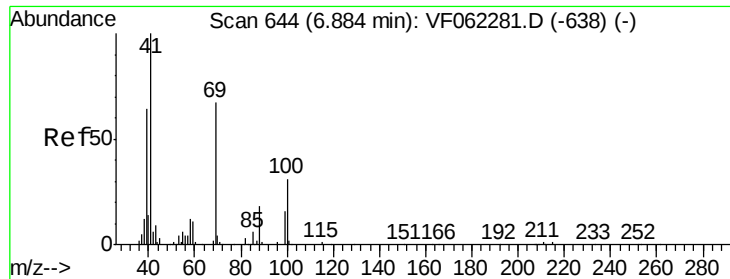
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	41	Resp:	80276
Ion Ratio	Lower	Upper	
41	100		
69	66.8	53.4	80.2
39	63.6	50.9	76.3





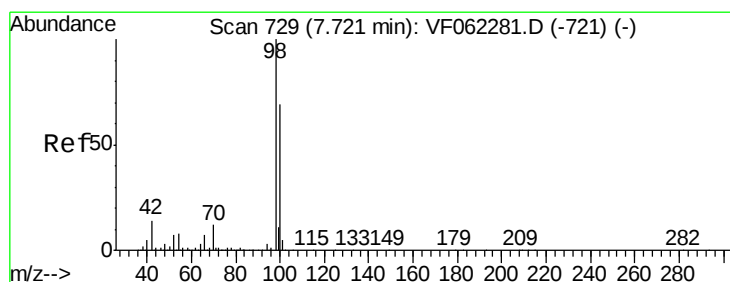
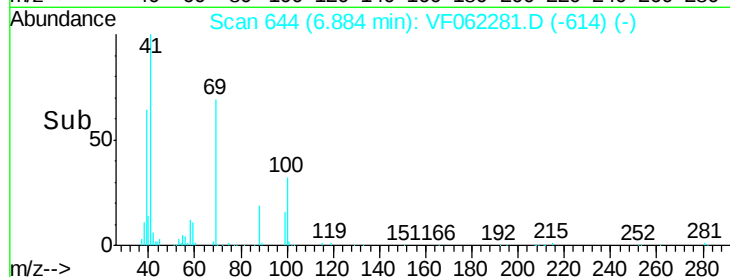
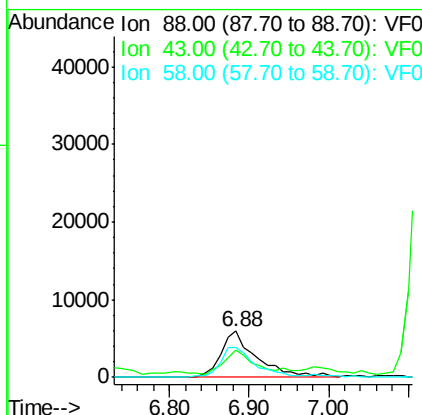
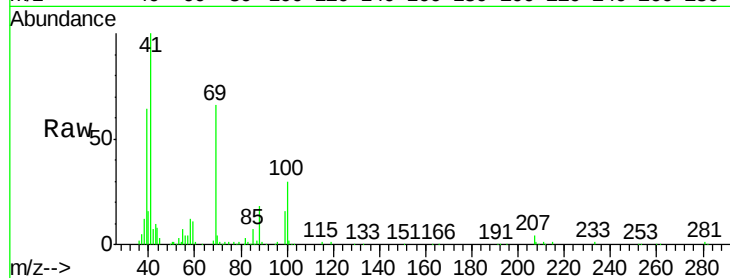
#49
1,4-Dioxane
Concen: 888.184 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100	18839		
43	42.8		34.2	51.4
58	63.4		50.7	76.1

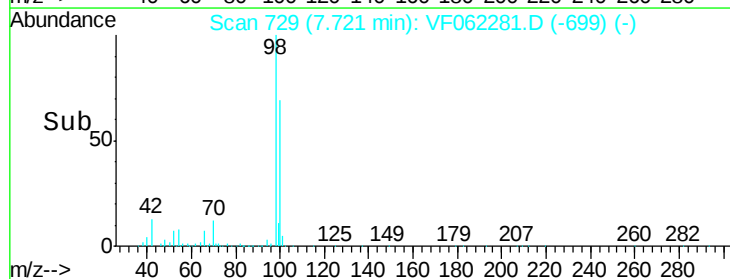
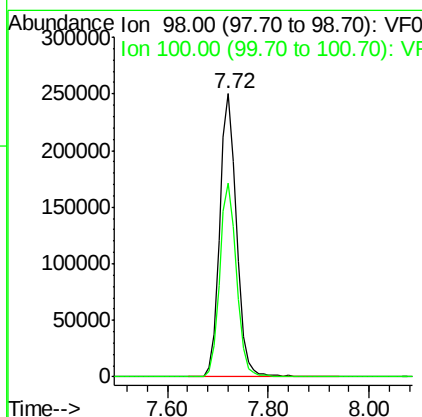
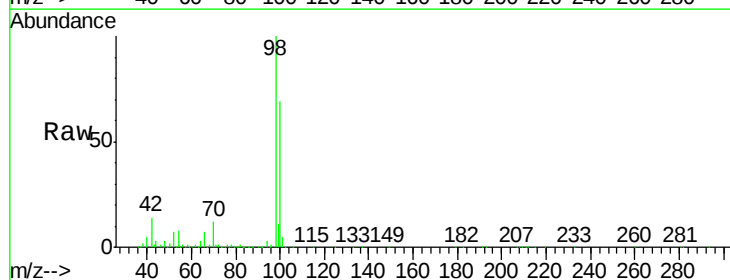
Manual Integrations
APPROVED

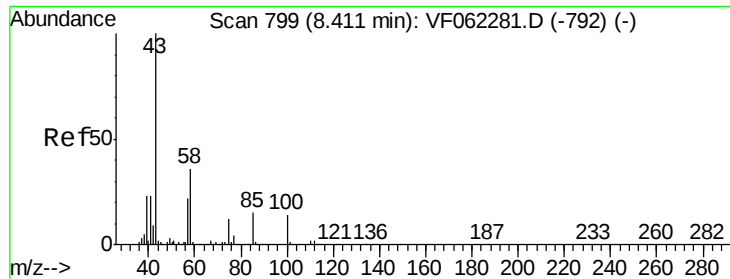
MMDadoda
4/26/2019 9:21:00 AM



#50
Toluene-d8
Concen: 49.329 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	588669		
100	68.0		54.4	81.6





#51

4-Methyl-2-Pentanone

Concen: 211.017 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 436082

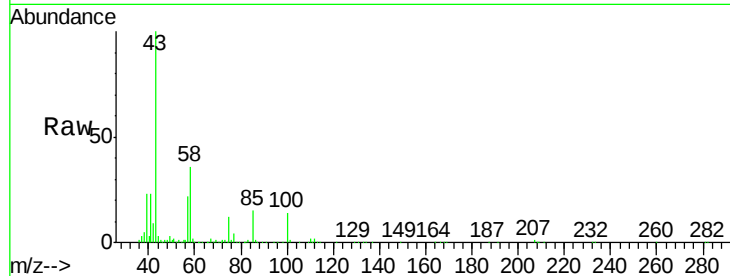
Ion Ratio Lower Upper

43 100

58 36.4 29.1 43.7

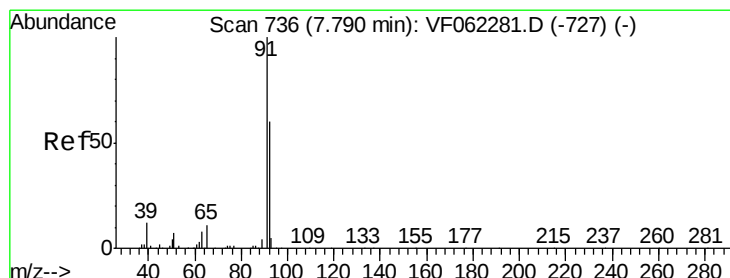
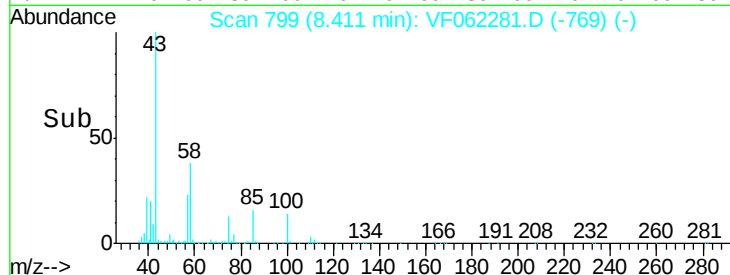
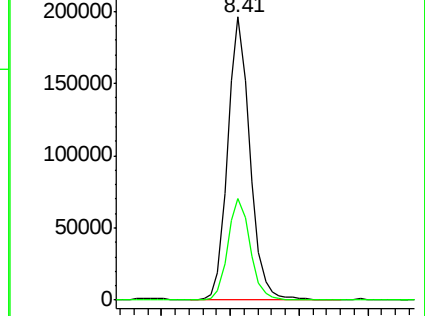
Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 43.465 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF062281.D

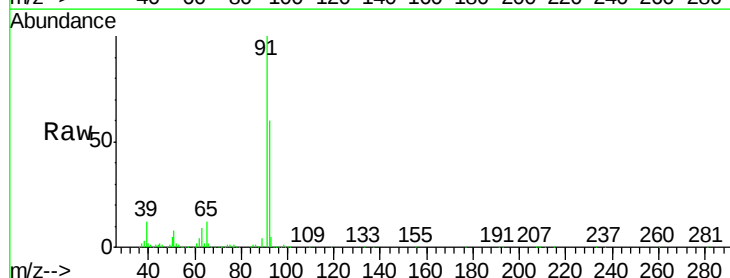
Acq: 24 Apr 2019 15:12

Tgt Ion: 92 Resp: 375011

Ion Ratio Lower Upper

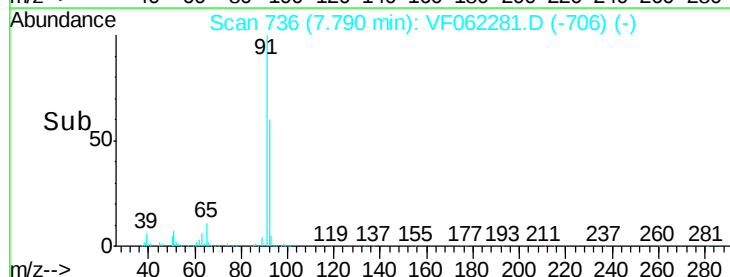
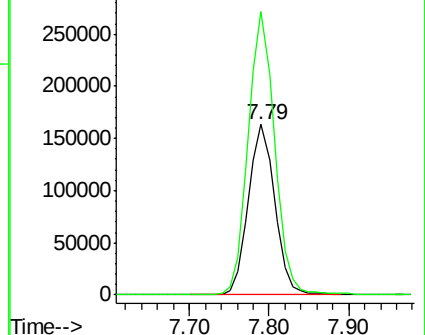
92 100

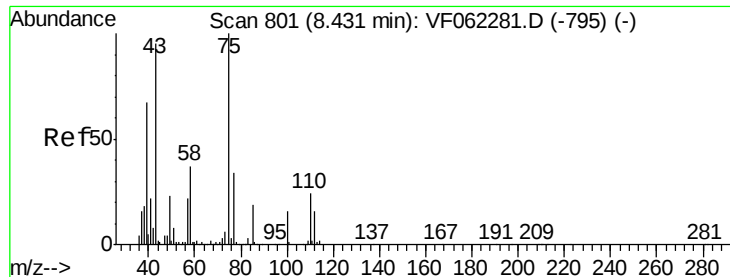
91 165.6 132.5 198.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 44.894 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 75 Resp: 184757

Ion Ratio Lower Upper

75 100

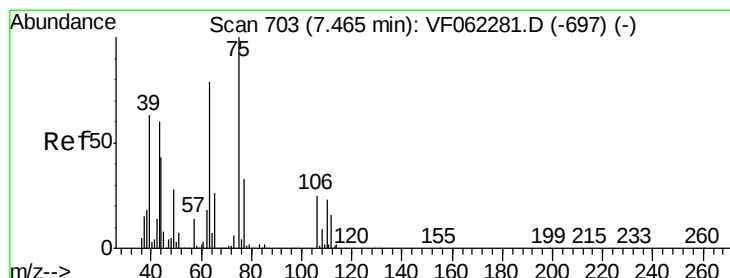
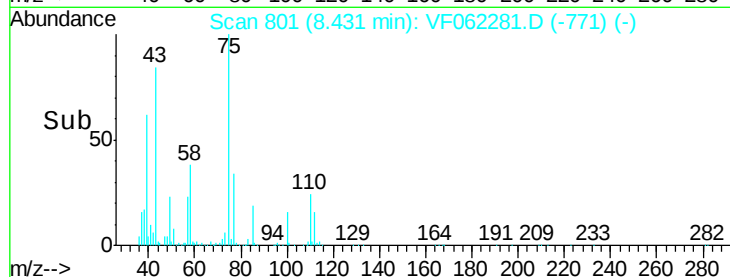
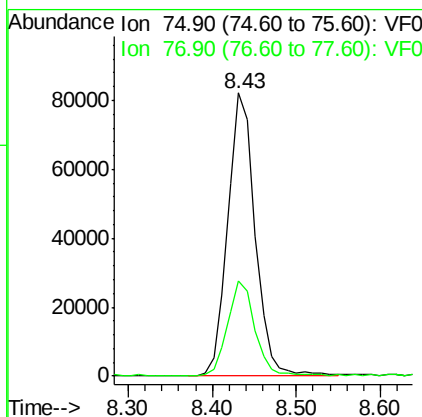
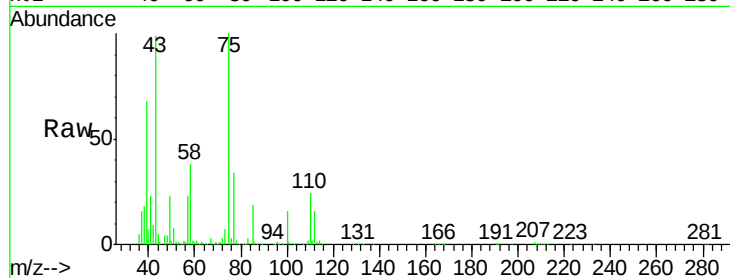
77 33.6 26.9 40.3

Manual Integrations

APPROVED

MMDadoda

4/26/2019 9:21:00 AM



#54

cis-1,3-Dichloropropene

Concen: 44.978 ug/l

RT: 7.47 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

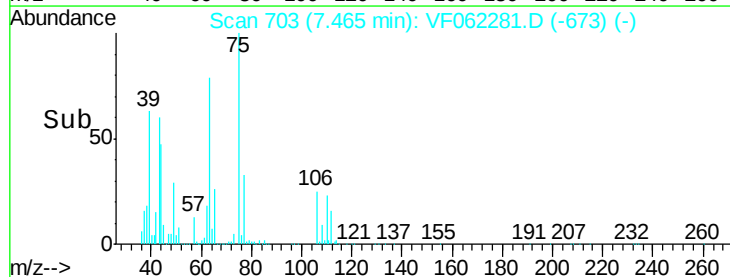
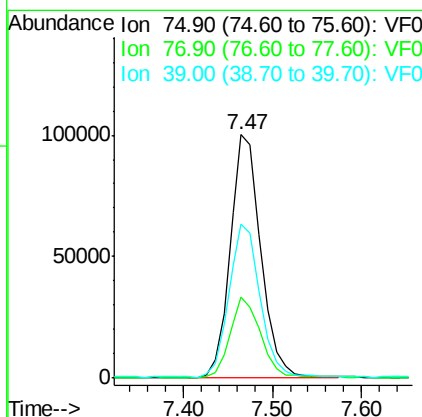
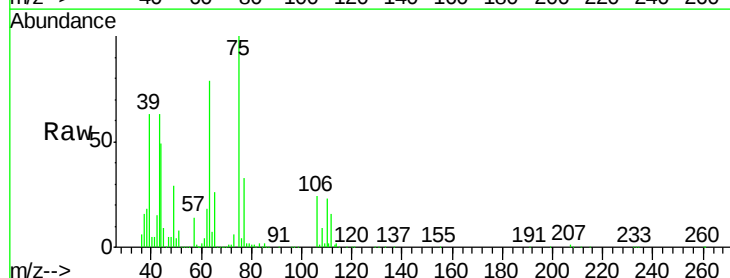
Tgt Ion: 75 Resp: 240357

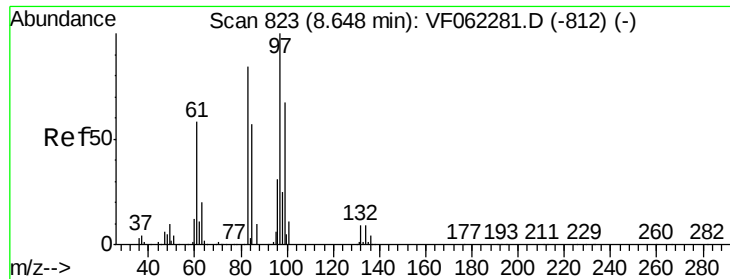
Ion Ratio Lower Upper

75 100

77 33.1 26.5 39.7

39 62.7 50.2 75.2





#55

1,1,2-Trichloroethane

Concen: 45.651 ug/l

RT: 8.65 min Scan# 823

Delta R.T. 0.00 min

Lab File: VF062281.D

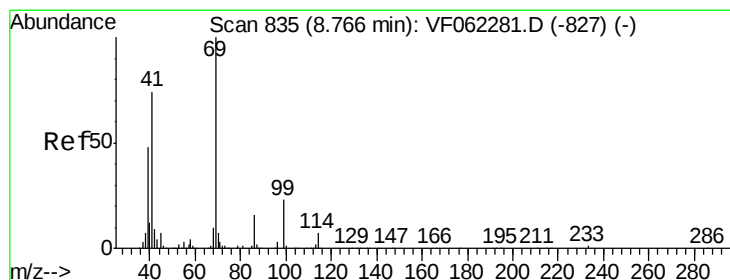
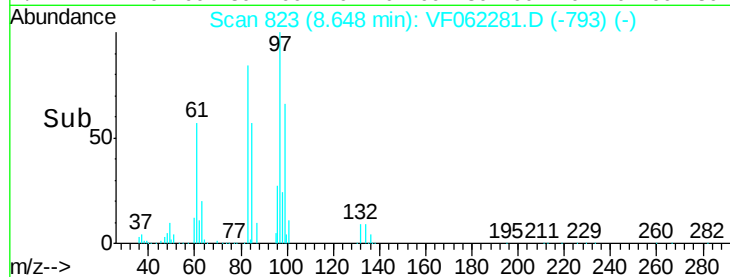
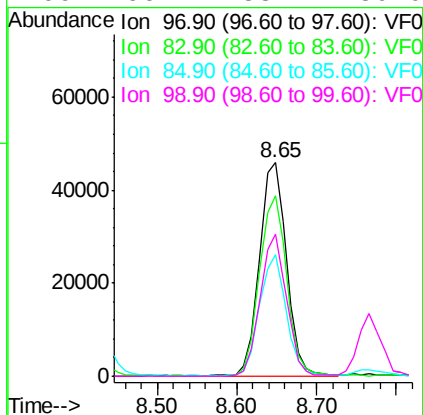
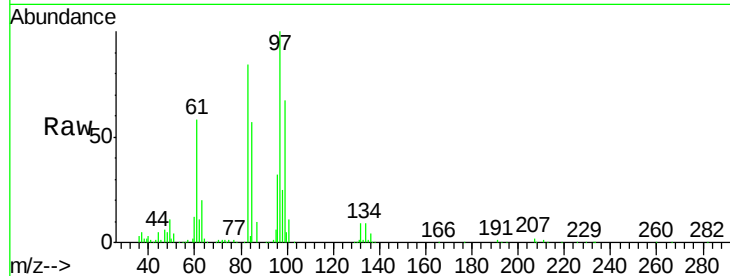
Acq: 24 Apr 2019 15:12

Tot Ion:	97	Resp:	107652
Ion	Ratio	Lower	Upper
97	100		
83	84.4	67.5	101.3
85	56.6	45.3	67.9
99	66.7	53.4	80.0

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#56

Ethyl methacrylate

Concen: 43.926 ug/l

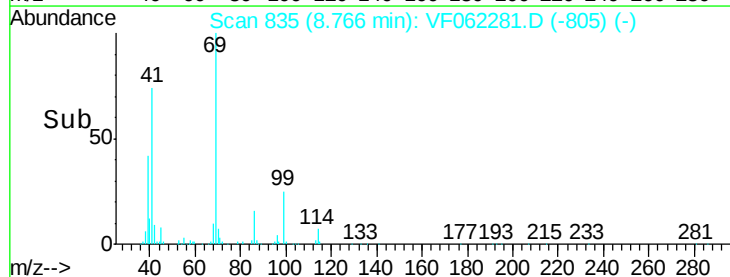
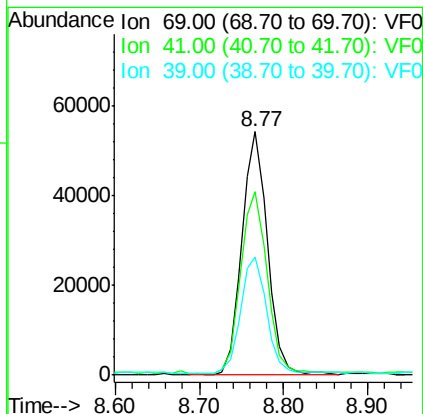
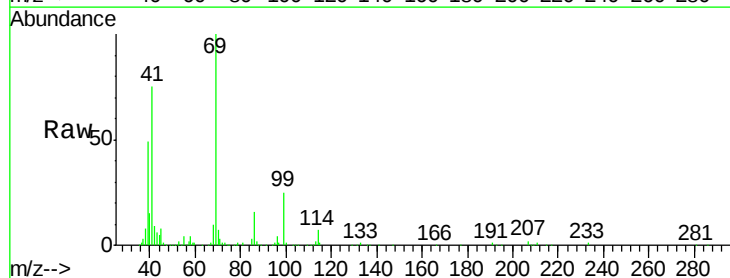
RT: 8.77 min Scan# 835

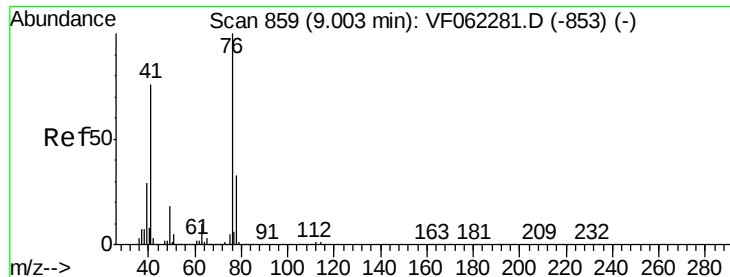
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	69	Resp:	115796
Ion	Ratio	Lower	Upper
69	100		
41	76.9	61.5	92.3
39	47.4	37.9	56.9





#57

1,3-Dichloropropane

Concen: 44.875 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 76 Resp: 166422

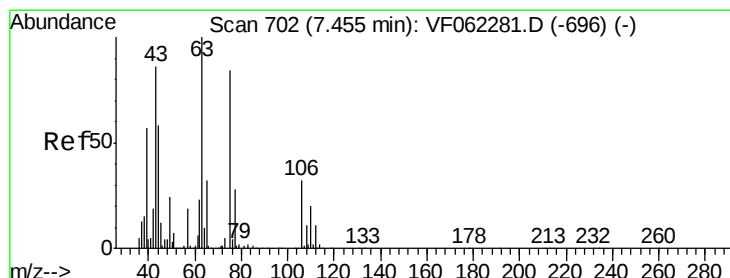
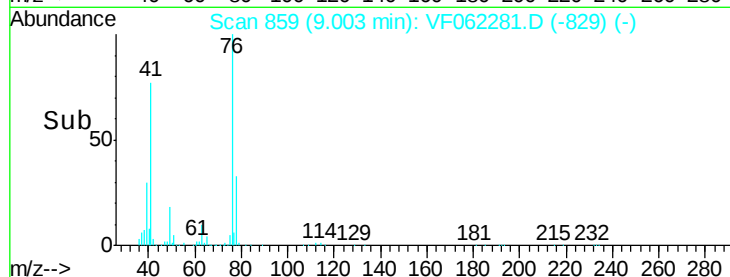
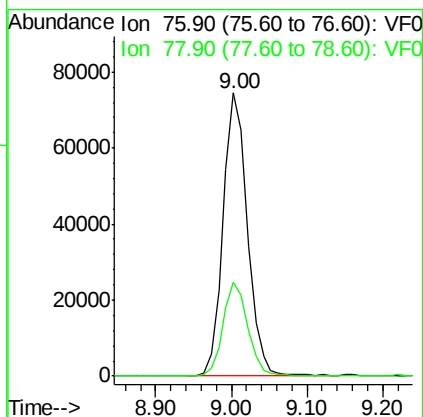
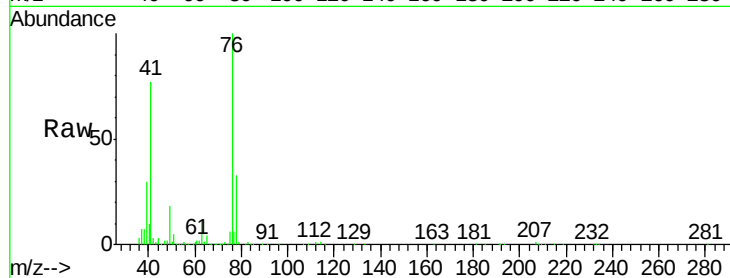
Ion Ratio Lower Upper

76 100

78 33.8 27.0 40.6

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#58

2-Chloroethyl Vinyl ether

Concen: 237.850 ug/l

RT: 7.46 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF062281.D

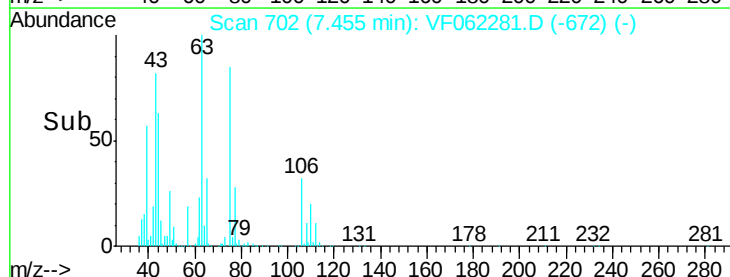
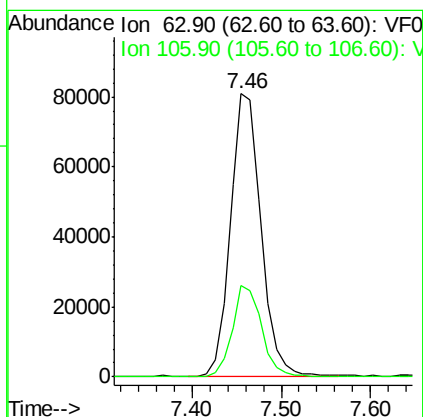
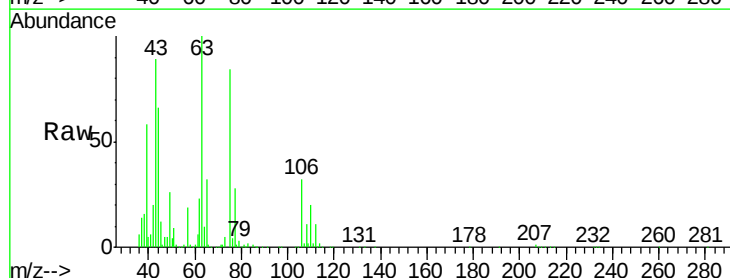
Acq: 24 Apr 2019 15:12

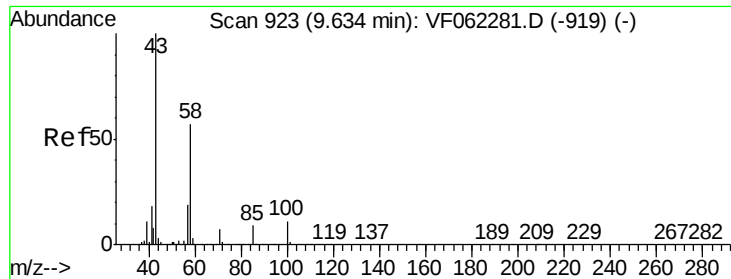
Tgt Ion: 63 Resp: 193702

Ion Ratio Lower Upper

63 100

106 30.9 24.7 37.1





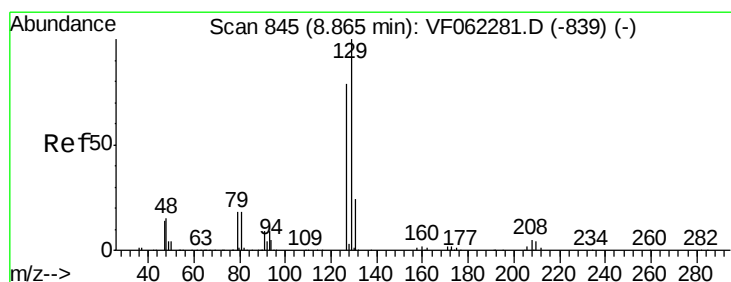
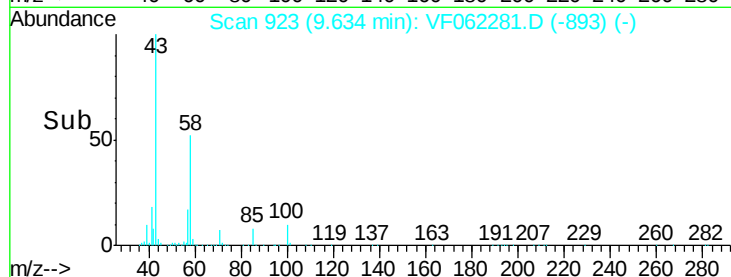
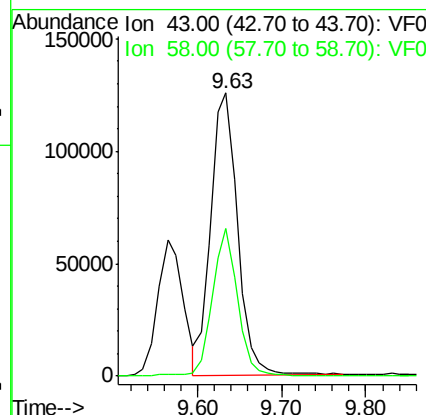
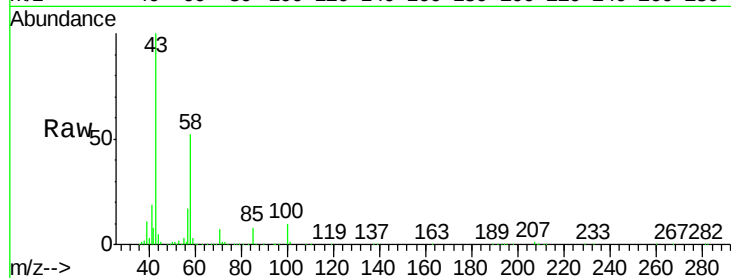
#59
2-Hexanone
Concen: 137.797 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion: 43 Resp: 277702
Ion Ratio Lower Upper
43 100
58 49.8 24.9 74.7

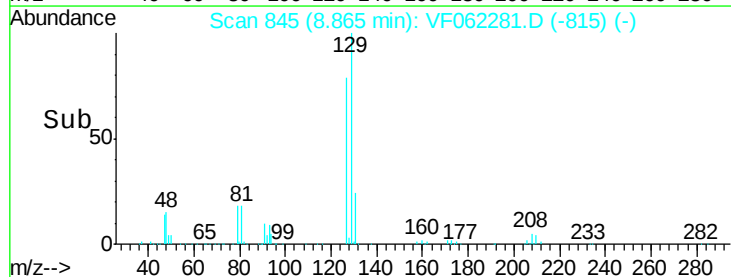
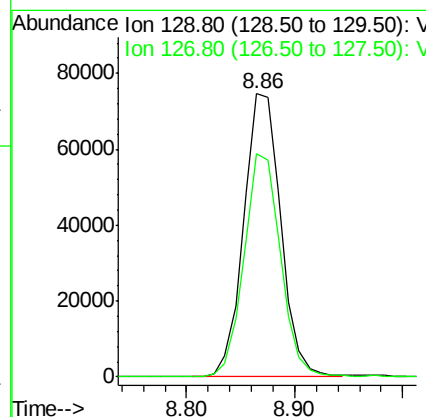
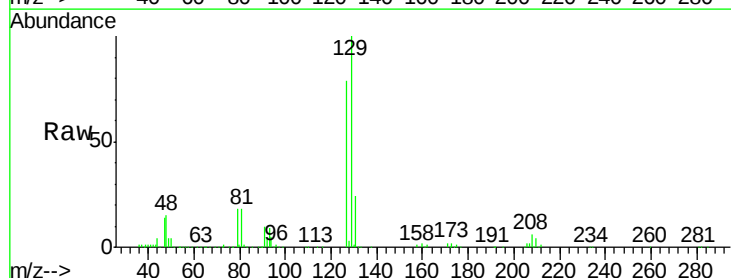
Manual Integrations
APPROVED

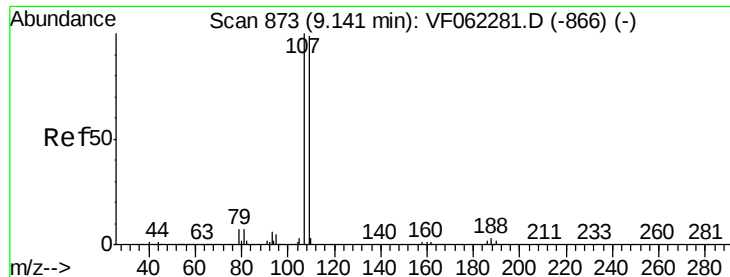
MMDadoda
4/26/2019 9:21:00 AM



#60
Dibromochloromethane
Concen: 47.019 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion: 129 Resp: 178664
Ion Ratio Lower Upper
129 100
127 77.6 38.8 116.4





#61

1,2-Dibromoethane

Concen: 46.407 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 107 Resp: 127525

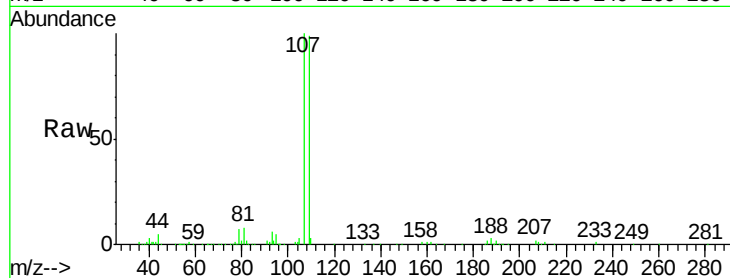
Ion Ratio Lower Upper

107 100

109 98.4 78.7 118.1

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.14

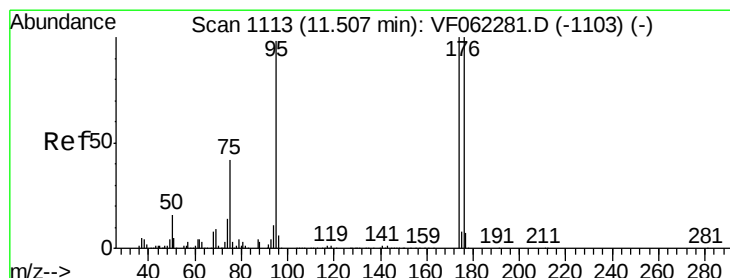
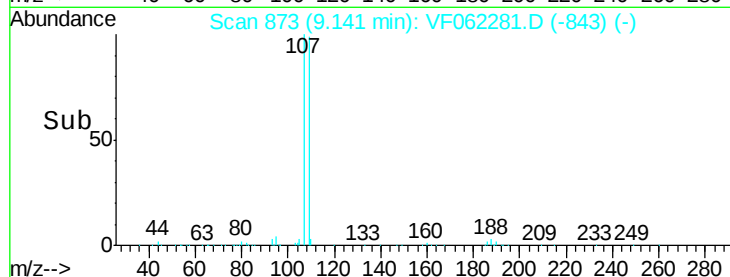
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.743 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

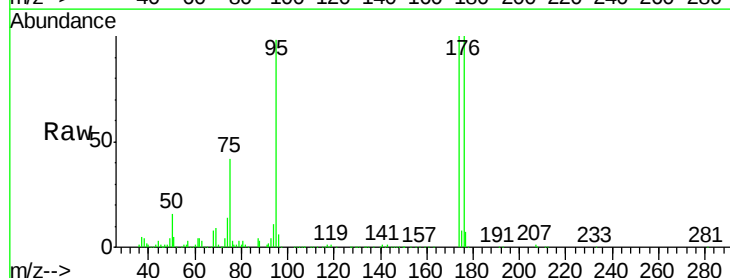
Tgt Ion: 95 Resp: 230065

Ion Ratio Lower Upper

95 100

174 92.6 0.0 185.2

176 92.4 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.51

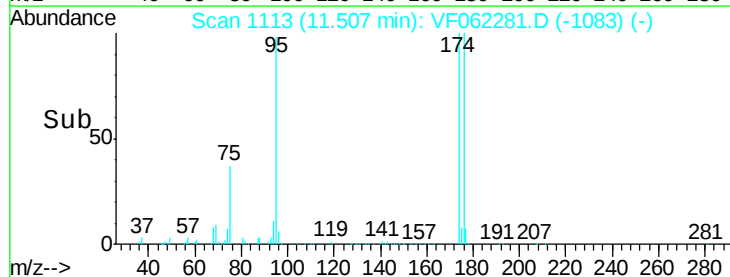
150000

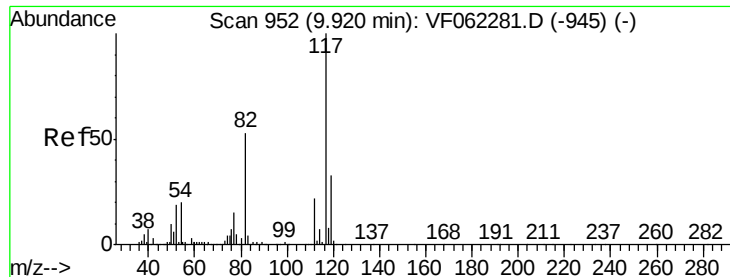
100000

50000

0

Time-->





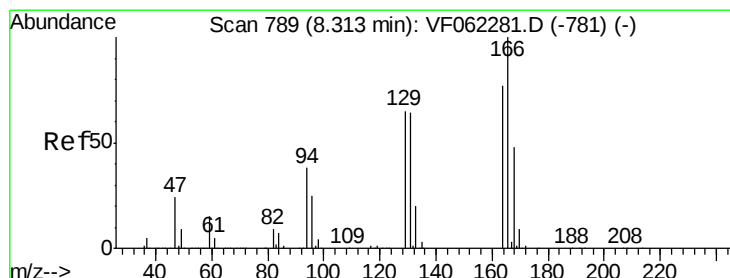
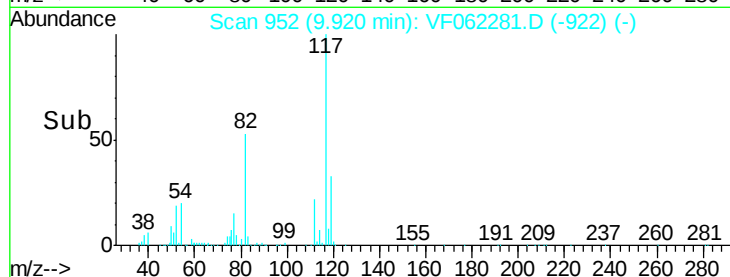
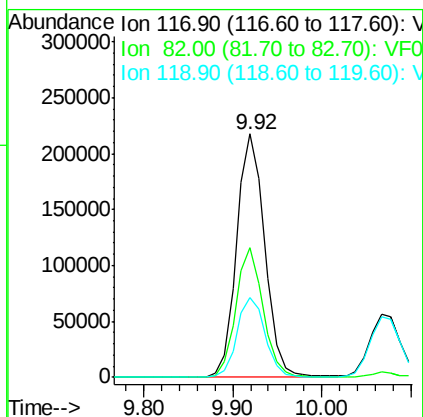
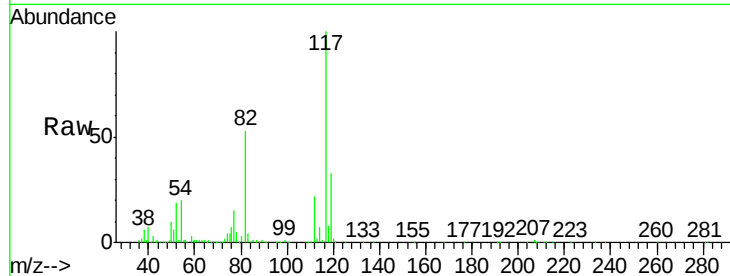
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	479530		
82	53.3		42.6	64.0
119	32.6		26.1	39.1

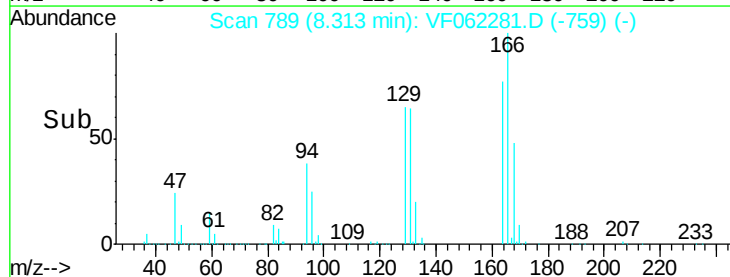
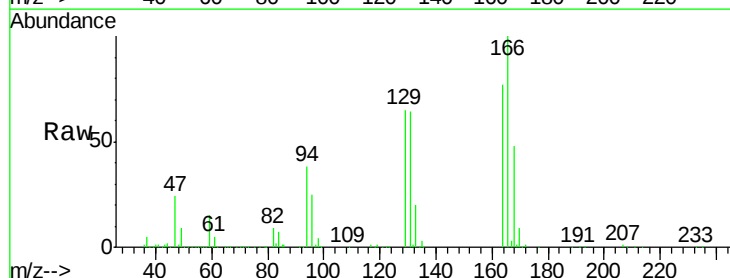
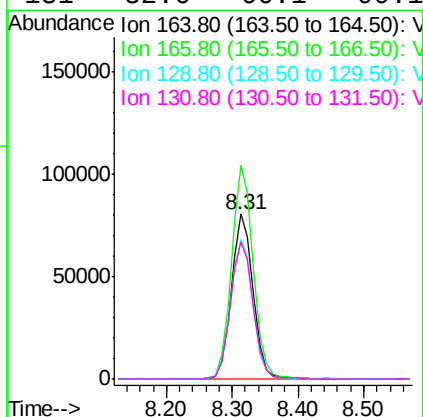
Manual Integrations
APPROVED

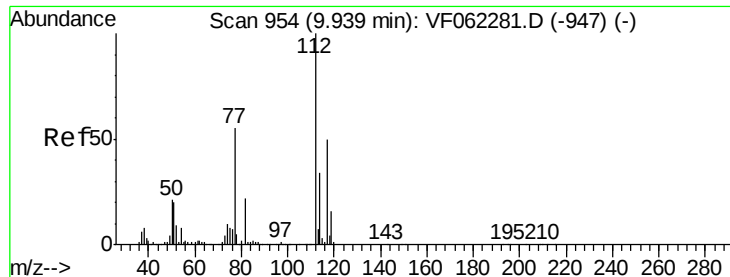
MMDadoda
4/26/2019 9:21:00 AM



#64
Tetrachloroethene
Concen: 45.025 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	185579		
166	129.4		103.5	155.3
129	84.5		67.6	101.4
131	82.6		66.1	99.1





#65

Chlorobenzene

Concen: 44.989 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:112 Resp: 400123

Ion Ratio Lower Upper

112 100

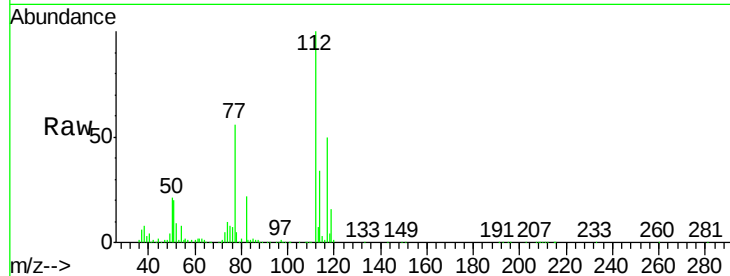
114 33.8 27.0 40.6

Manual Integrations

APPROVED

MMDadoda

4/26/2019 9:21:00 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

9.94

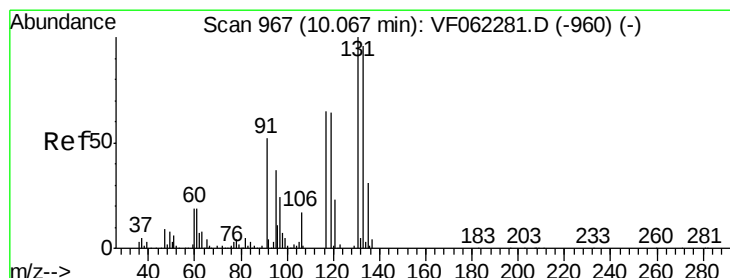
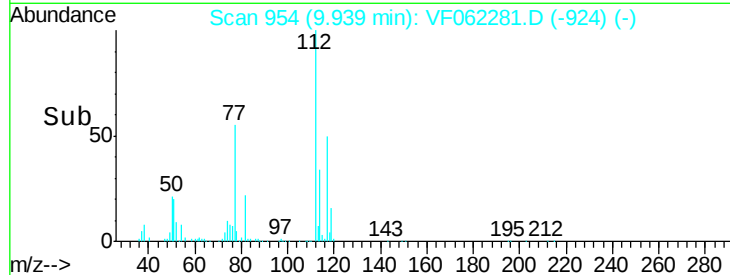
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 45.234 ug/l

RT: 10.07 min Scan# 967

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

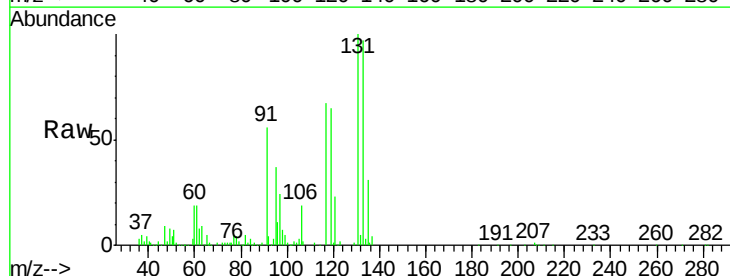
Tgt Ion:131 Resp: 193915

Ion Ratio Lower Upper

131 100

133 97.0 48.5 145.5

119 65.8 32.9 98.7



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

10.07

80000

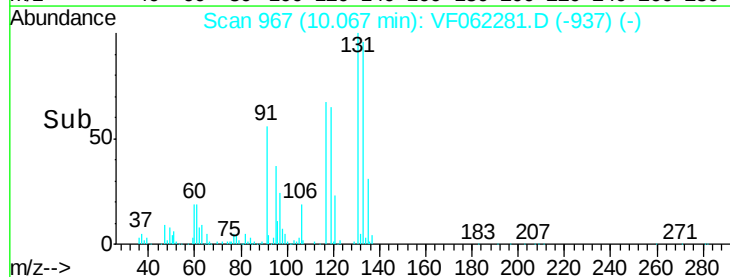
60000

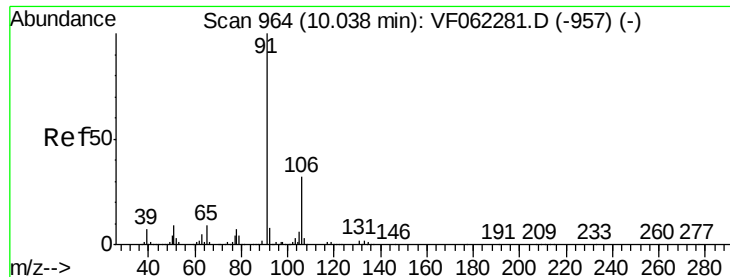
40000

20000

0

Time-->





#67

Ethyl Benzene

Concen: 43.395 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 684614

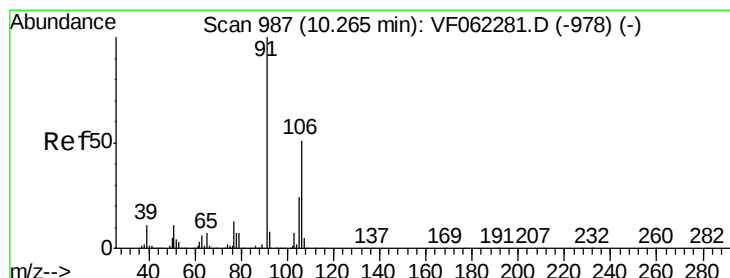
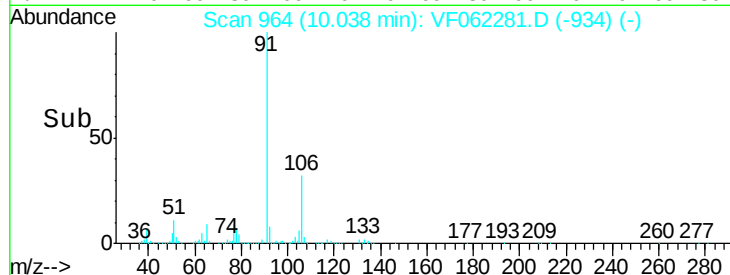
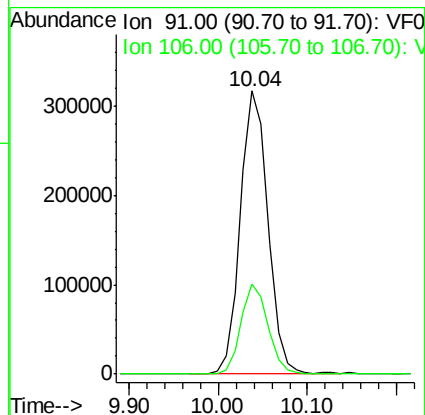
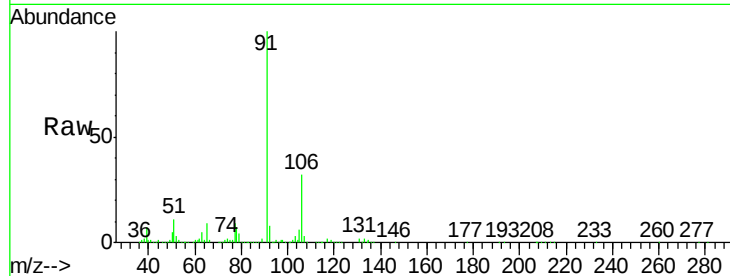
Ion Ratio Lower Upper

91 100

106 32.0 25.6 38.4

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#68

m/p-Xylenes

Concen: 88.041 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.00 min

Lab File: VF062281.D

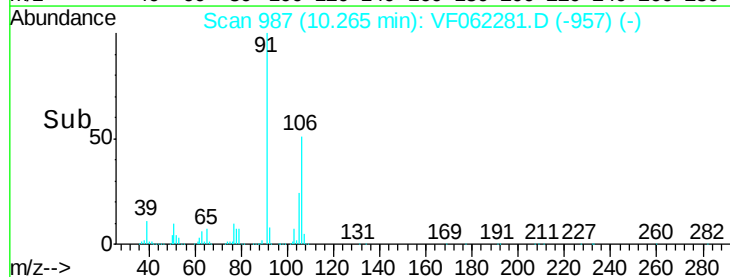
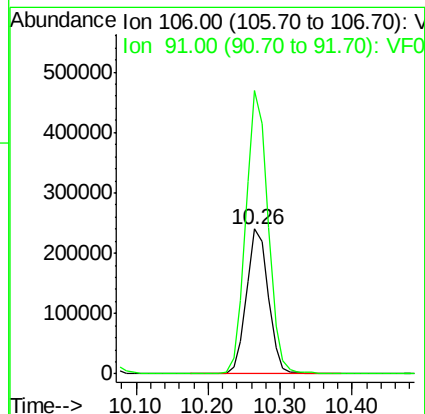
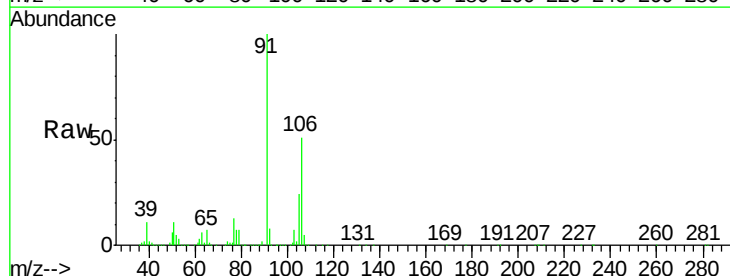
Acq: 24 Apr 2019 15:12

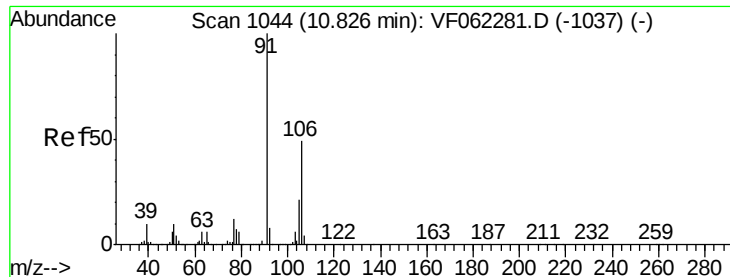
Tgt Ion: 106 Resp: 512853

Ion Ratio Lower Upper

106 100

91 197.9 158.3 237.5





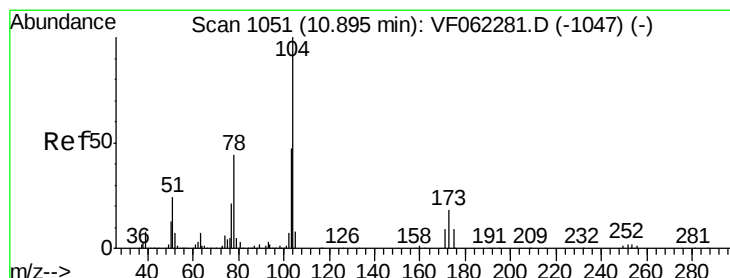
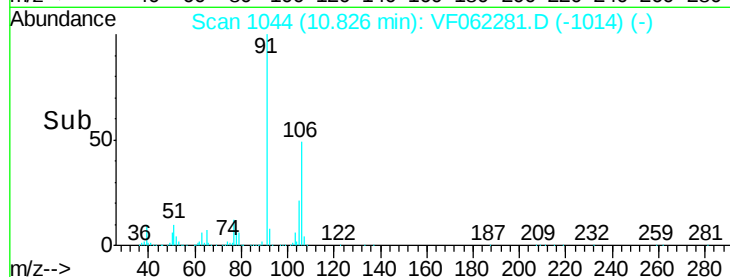
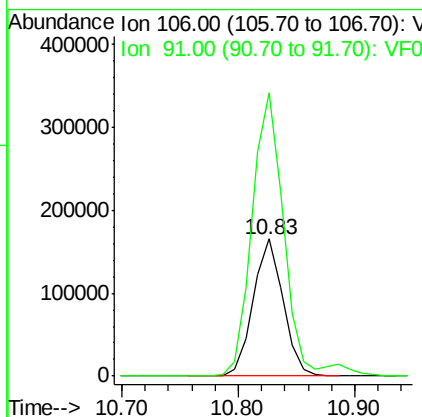
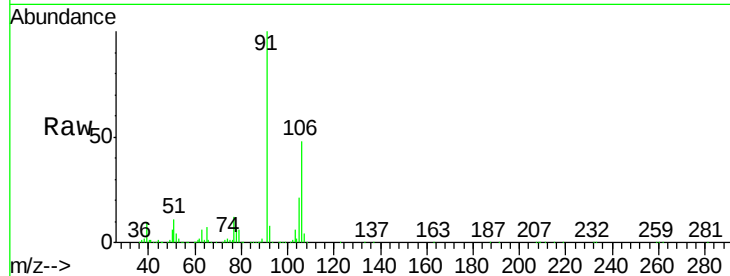
#69
o-Xylene
Concen: 45.134 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion:106 Resp: 295124
Ion Ratio Lower Upper
106 100
91 220.0 110.0 330.0

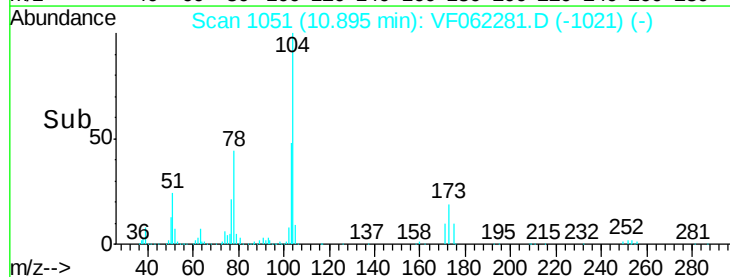
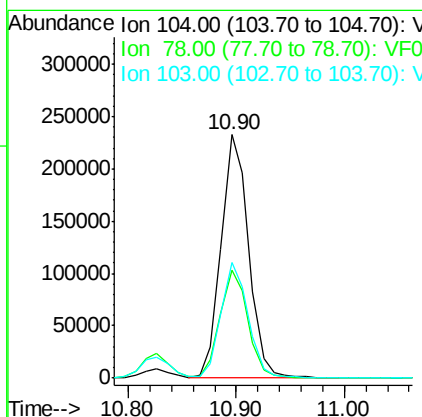
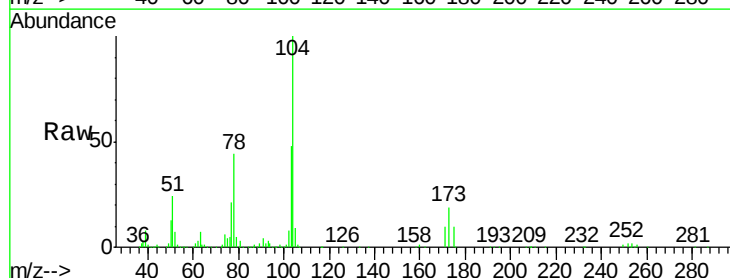
Manual Integrations
APPROVED

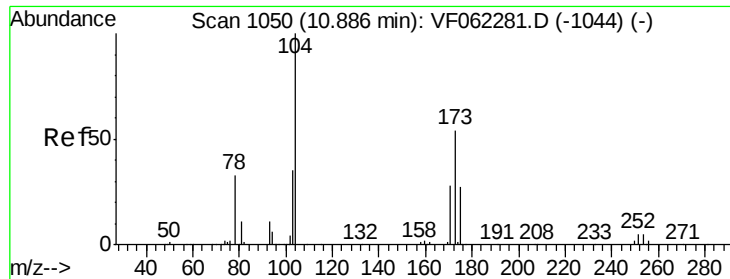
MMDadoda
4/26/2019 9:21:00 AM



#70
Styrene
Concen: 43.447 ug/l
RT: 10.90 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion:104 Resp: 410997
Ion Ratio Lower Upper
104 100
78 44.9 35.9 53.9
103 46.9 37.5 56.3





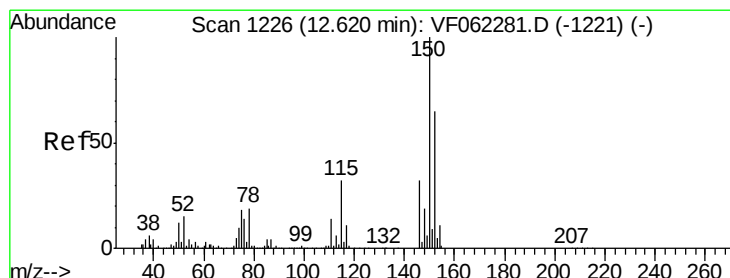
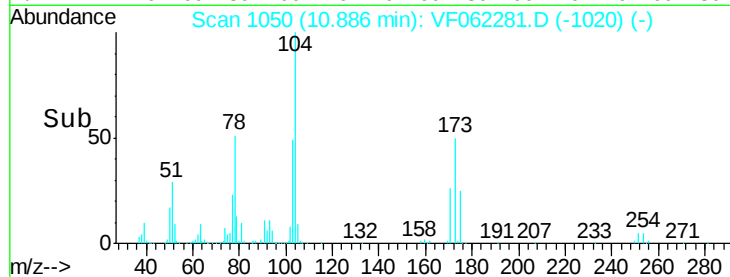
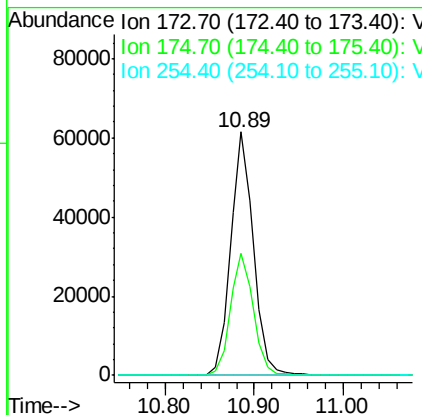
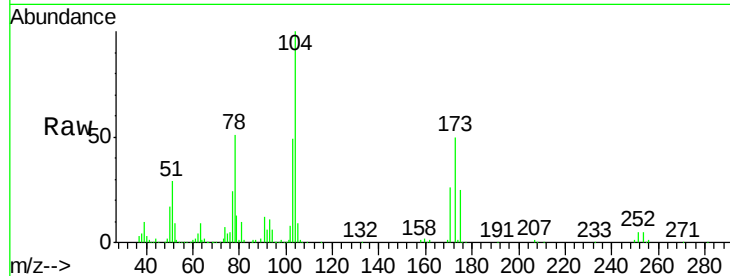
#71
Bromoform
Concen: 47.409 ug/l
RT: 10.89 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.6	25.3	75.9
254	0.1	0.1	0.1

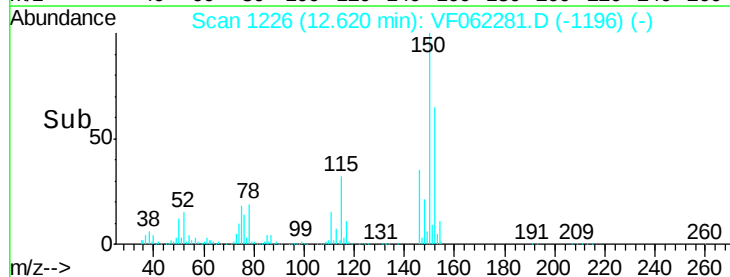
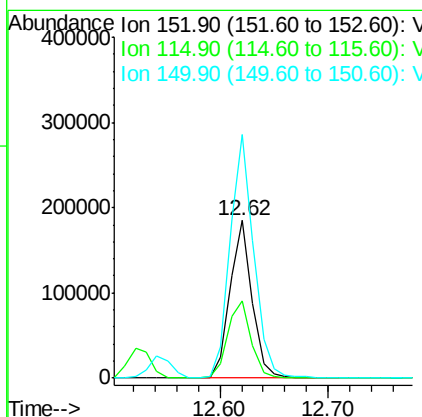
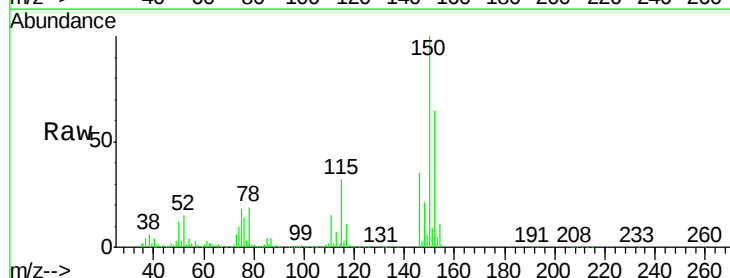
Manual Integrations
APPROVED

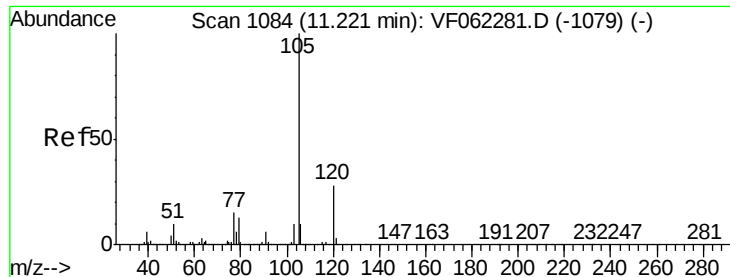
MMDadoda
4/26/2019 9:21:00 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.2	25.6	76.8
150	165.3	0.0	330.6





#73

Isopropylbenzene

Concen: 46.540 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 105 Resp: 876098

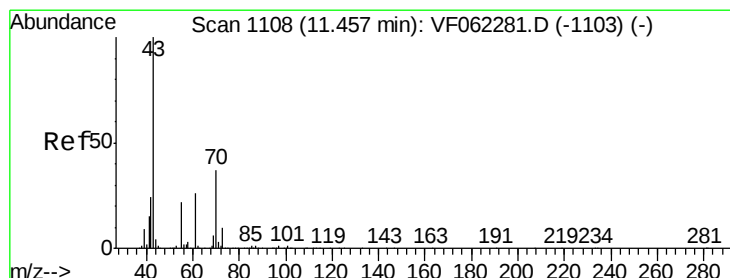
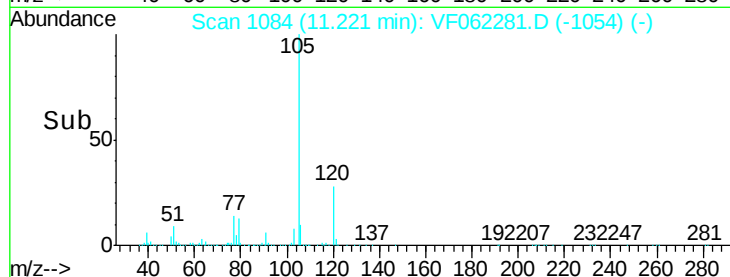
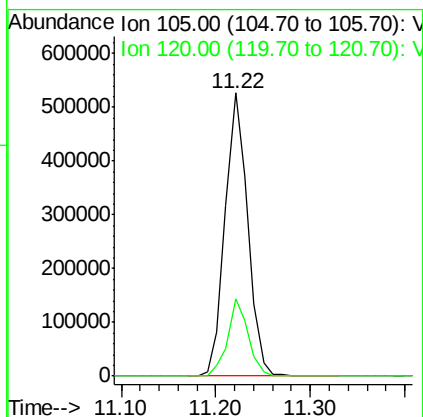
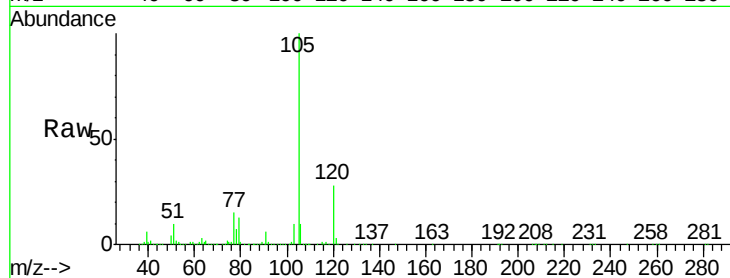
Ion Ratio Lower Upper

105 100

120 24.8 12.4 37.2

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#74

N-ethyl acetate

Concen: 40.777 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion: 43 Resp: 174281

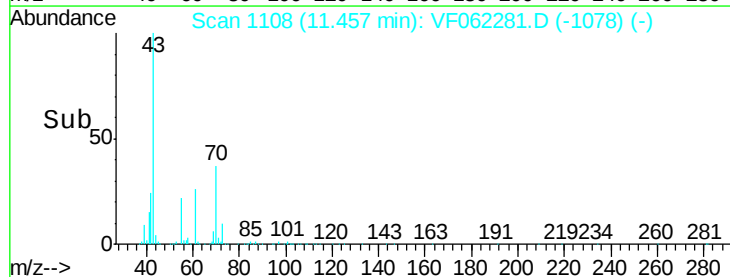
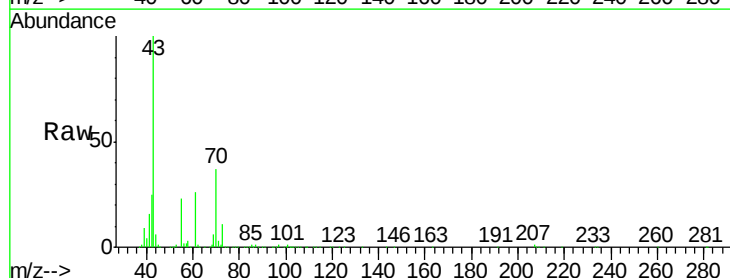
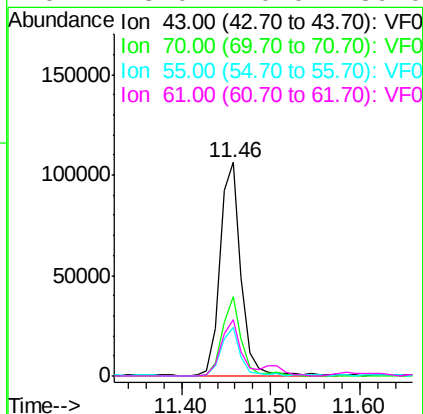
Ion Ratio Lower Upper

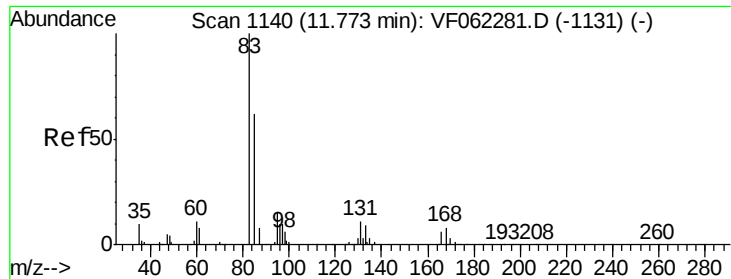
43 100

70 34.8 27.8 41.8

55 20.7 16.6 24.8

61 25.0 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 50.264 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

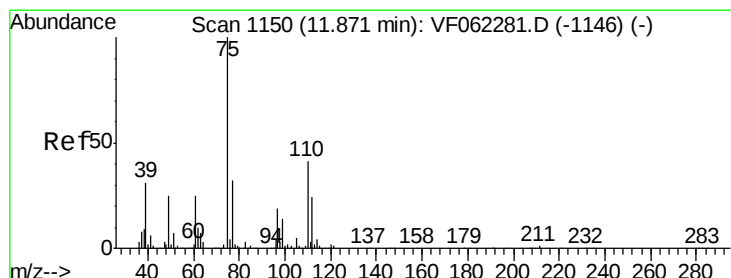
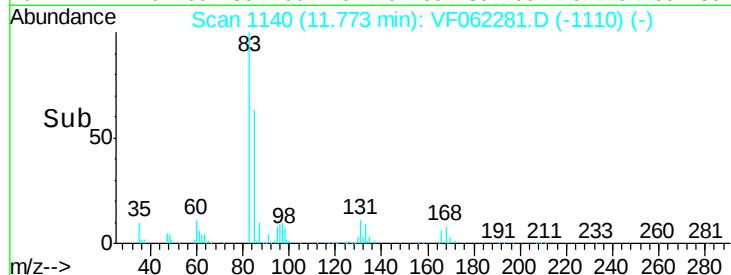
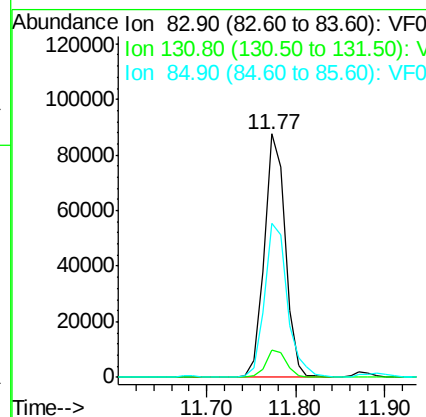
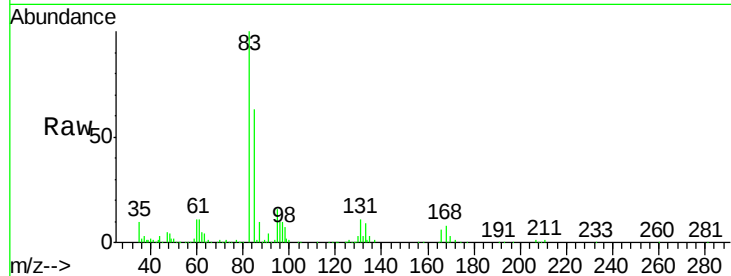
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	141498
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.5	16.5
85	69.1	34.5	103.6

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#76

1,2,3-Trichloropropane

Concen: 47.281 ug/l

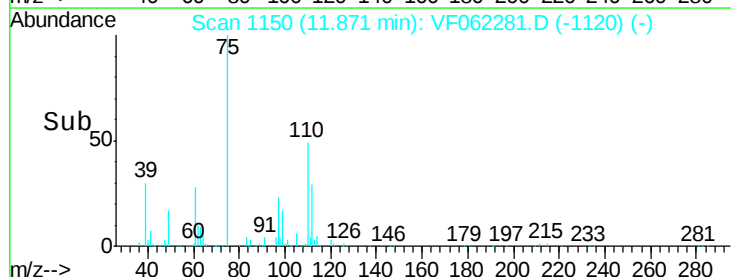
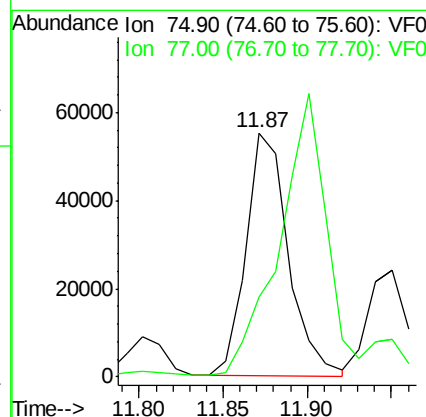
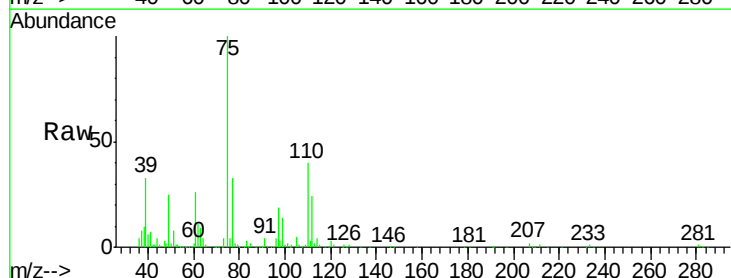
RT: 11.87 min Scan# 1150

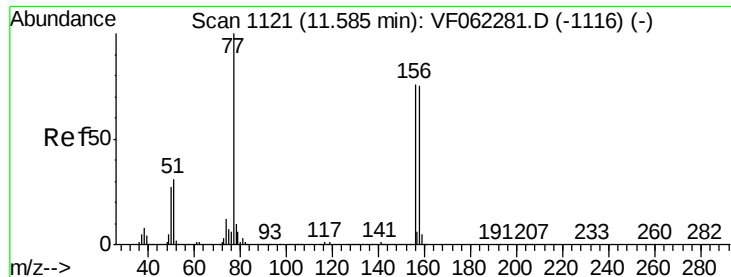
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	75	Resp:	96049
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 47.221 ug/l

RT: 11.59 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

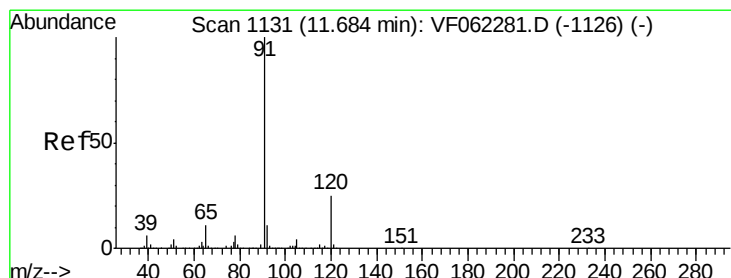
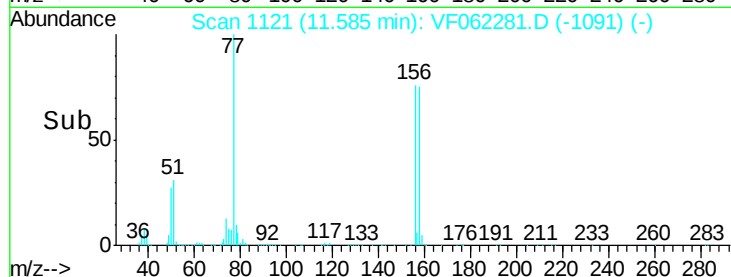
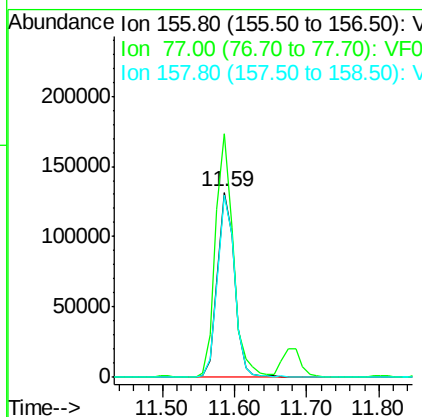
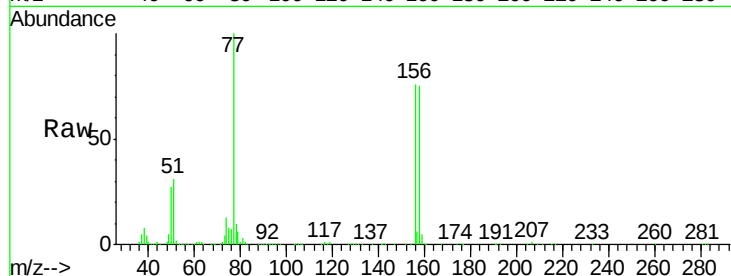
ClientSampleId :

VSTDICCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	134.6	67.3	201.9
158	99.0	49.5	148.5

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#78

n-propylbenzene

Concen: 45.131 ug/l

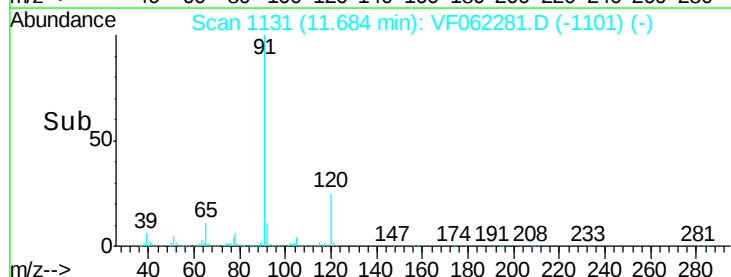
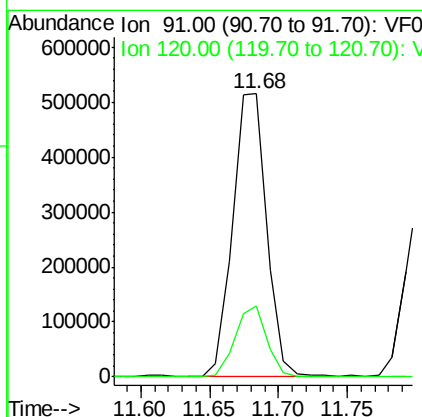
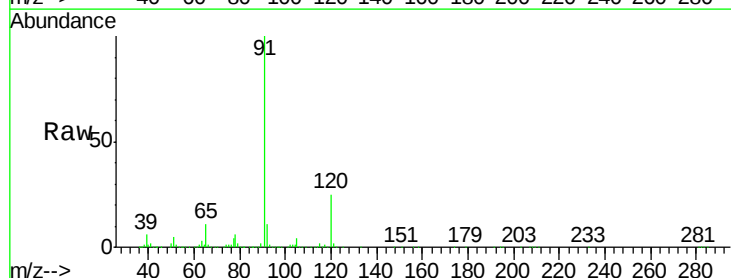
RT: 11.68 min Scan# 1131

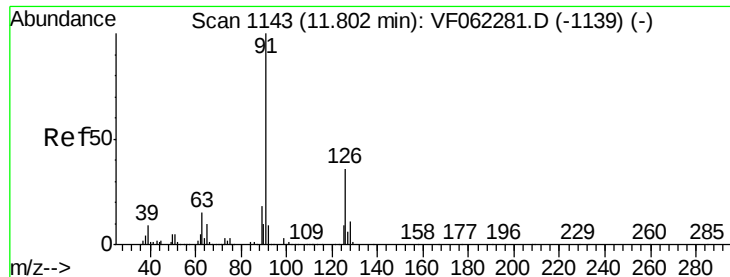
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.8	35.4





#79

2-Chlorotoluene

Concen: 46.321 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 539284

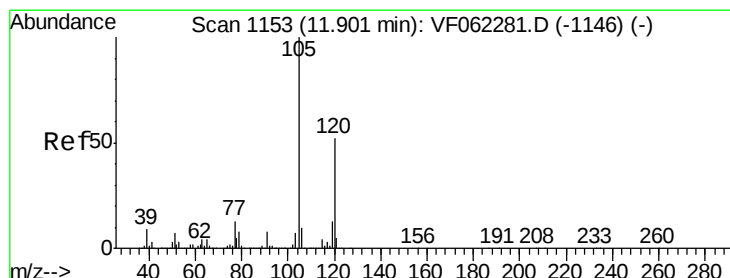
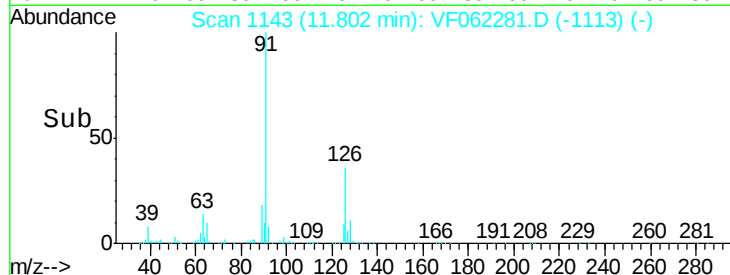
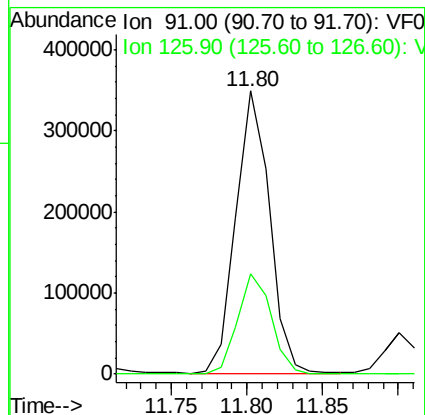
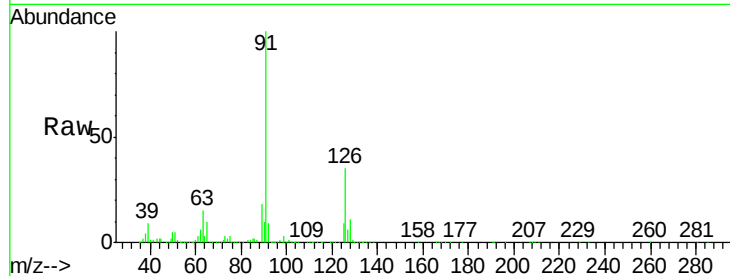
Ion Ratio Lower Upper

91 100

126 35.9 17.9 53.8

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#80

1,3,5-Trimethylbenzene

Concen: 46.405 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062281.D

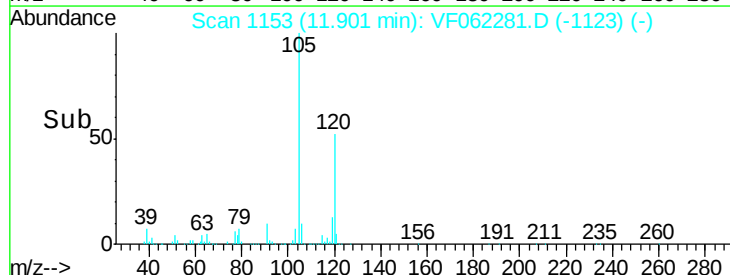
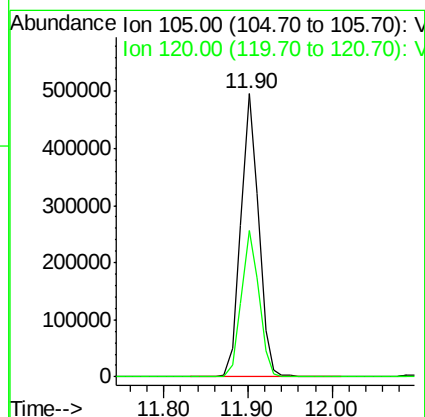
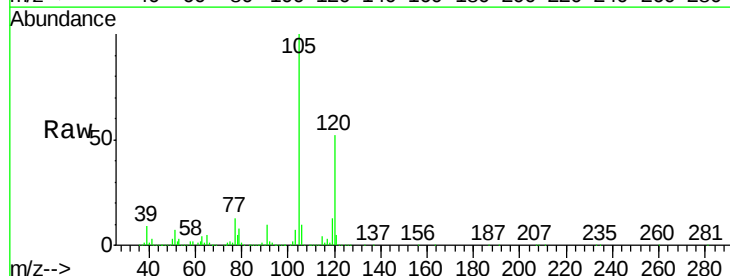
Acq: 24 Apr 2019 15:12

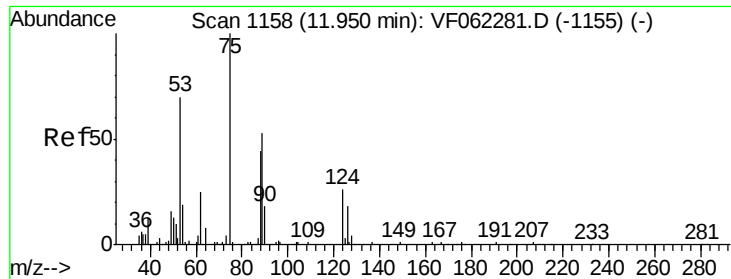
Tgt Ion: 105 Resp: 730902

Ion Ratio Lower Upper

105 100

120 51.6 25.8 77.4





#81

trans-1,4-Dichloro-2-butene

Concen: 31.648 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Instrument :

MSVOA_F

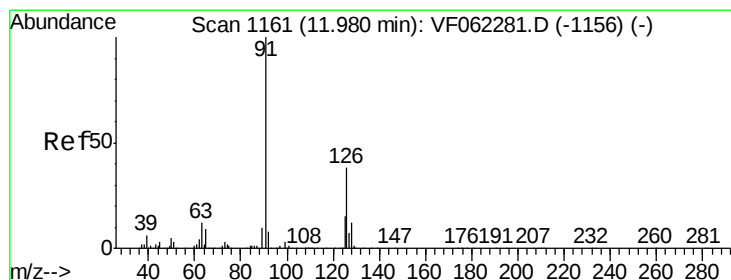
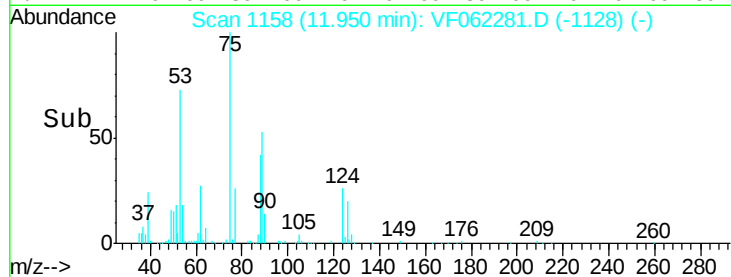
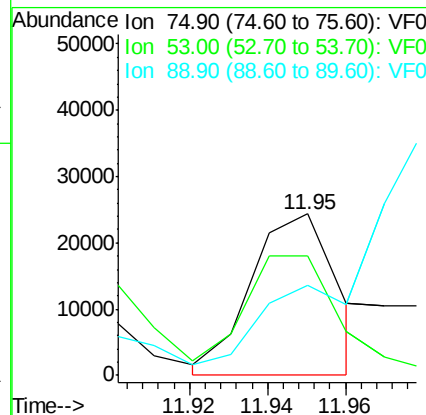
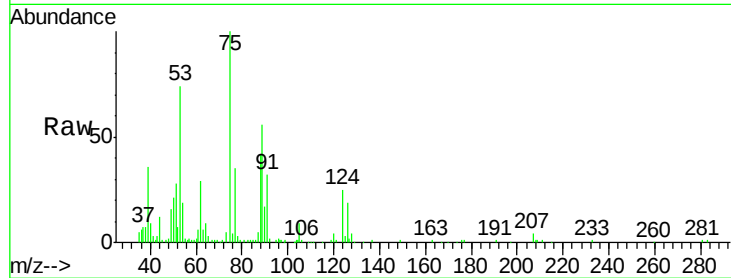
ClientSampleId :

VSTDICCC050

Tot Ion:	75	Resp:	37333
Ion	Ratio	Lower	Upper
75	100		
53	83.9	67.1	100.7
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#82

4-Chlorotoluene

Concen: 46.538 ug/l

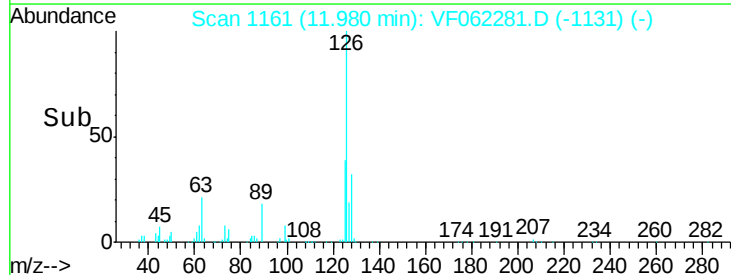
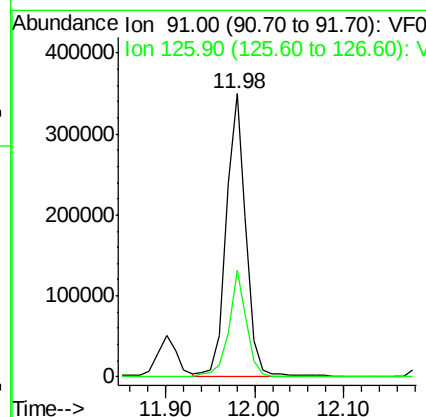
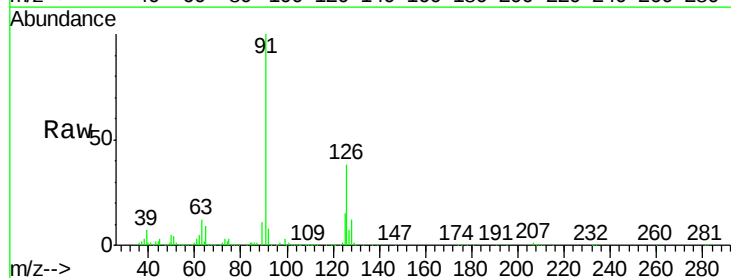
RT: 11.98 min Scan# 1161

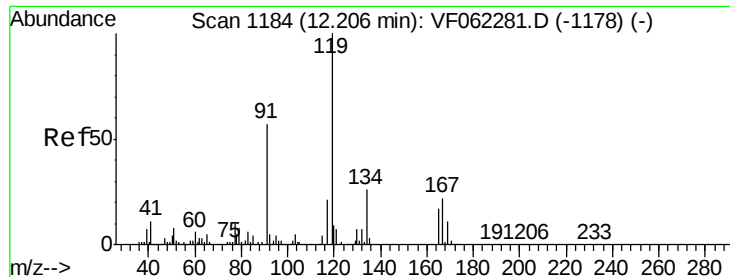
Delta R.T. 0.00 min

Lab File: VF062281.D

Acq: 24 Apr 2019 15:12

Tgt Ion:	91	Resp:	536930
Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0





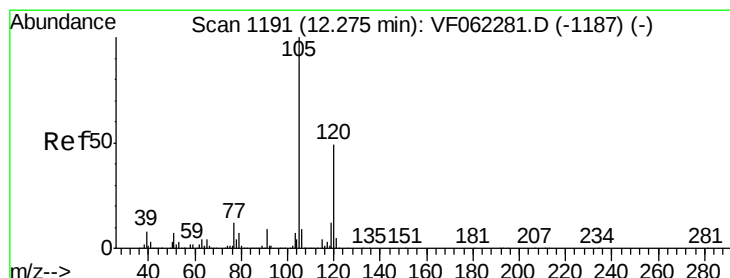
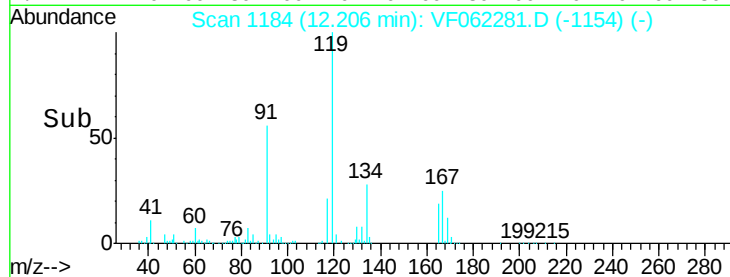
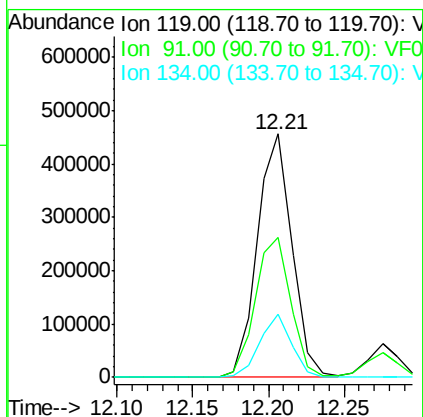
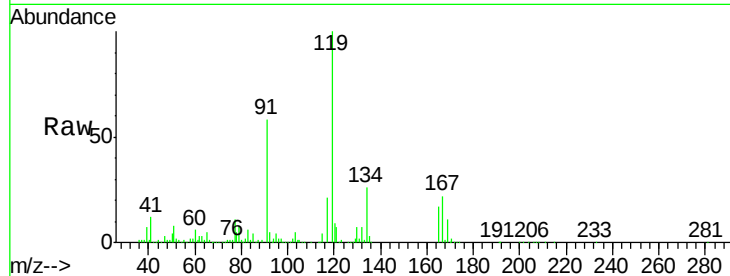
#83
 tert-Butylbenzene
 Concen: 44.329 ug/l
 RT: 12.21 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	58.8	29.4	88.2
134	23.8	11.9	35.7

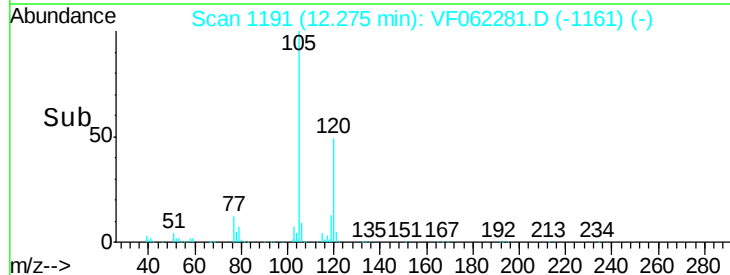
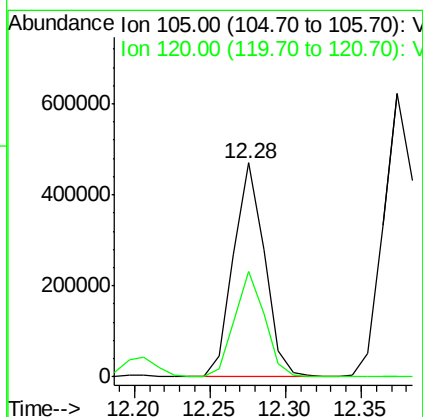
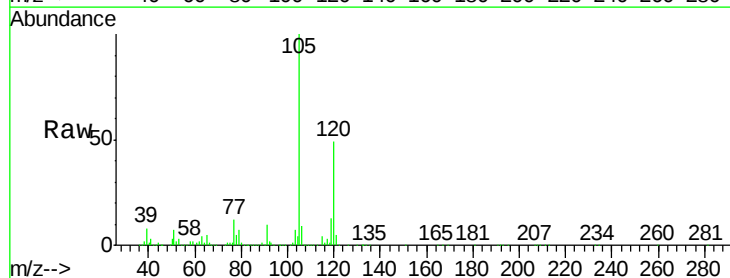
Manual Integrations
 APPROVED

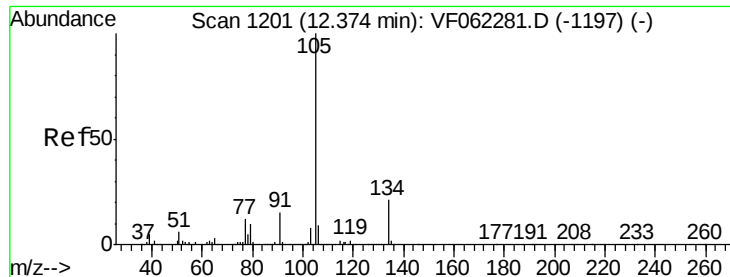
MMDadoda
 4/26/2019 9:21:00 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 43.210 ug/l
 RT: 12.28 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.1	72.2





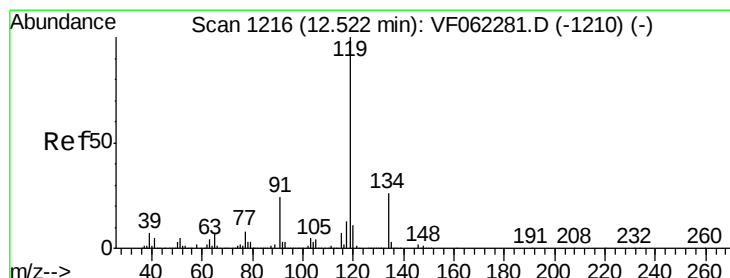
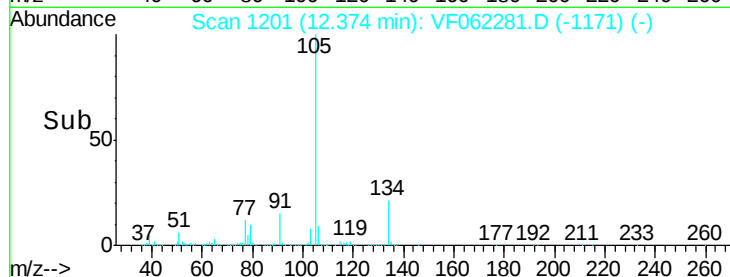
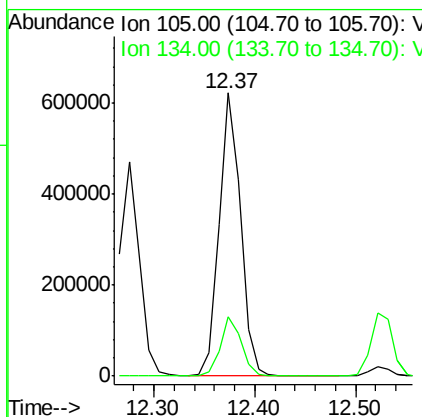
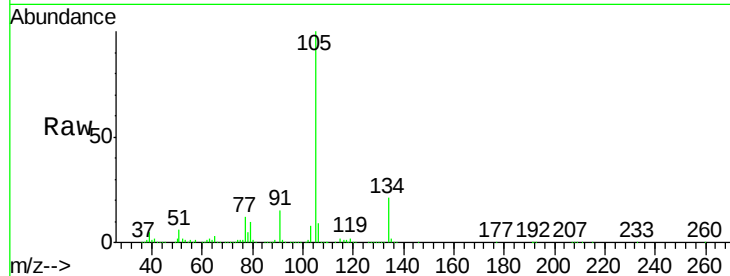
#85
 sec-Butylbenzene
 Concen: 45.081 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4

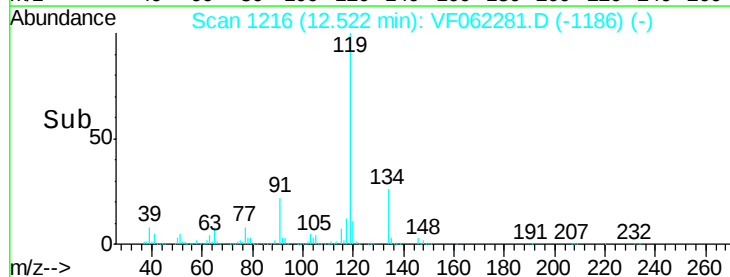
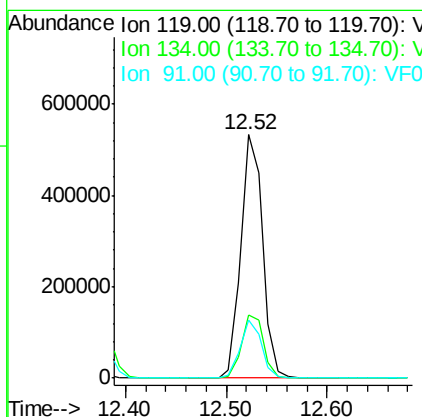
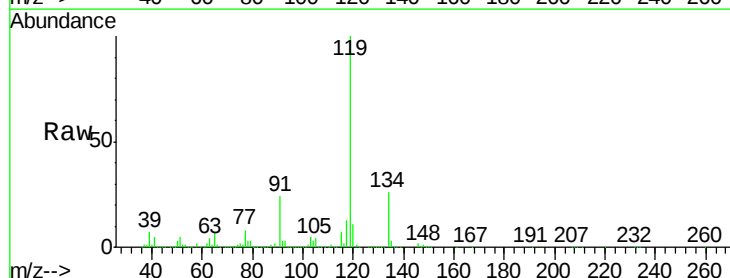
Manual Integrations
 APPROVED

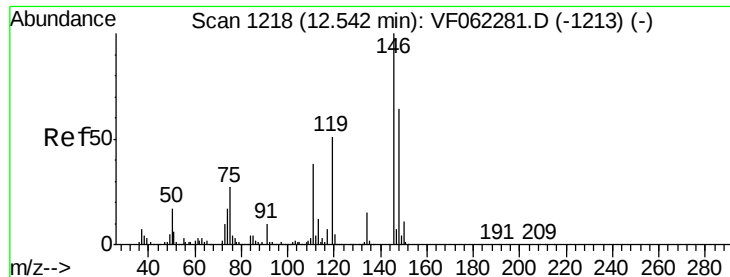
MMDadoda
 4/26/2019 9:21:00 AM



#86
 p-Isopropyltoluene
 Concen: 43.806 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.5
91	23.1	11.6	34.7





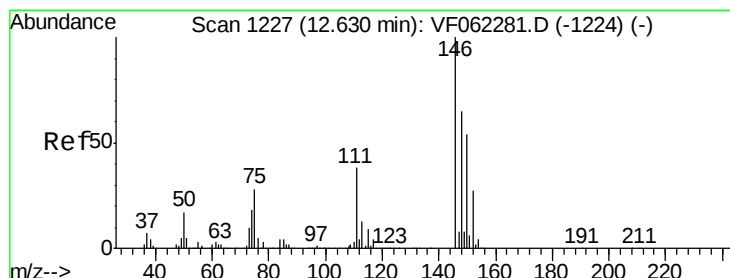
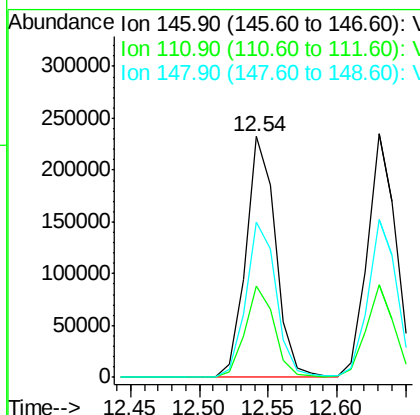
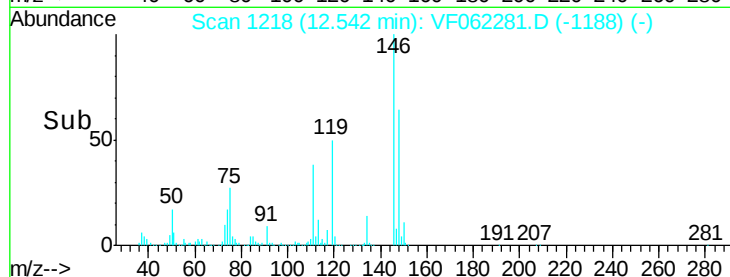
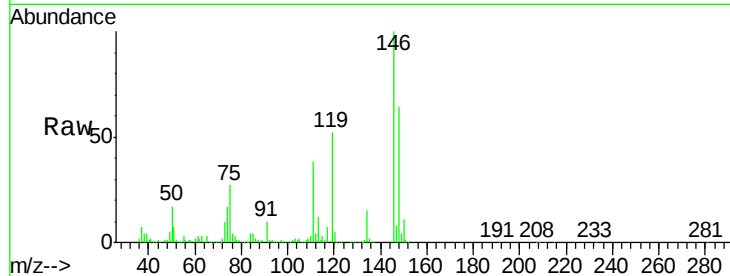
#87
 1,3-Dichlorobenzene
 Concen: 42.610 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.6	55.8
148	65.6	32.8	98.4

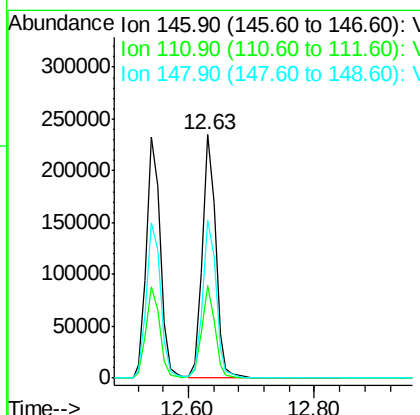
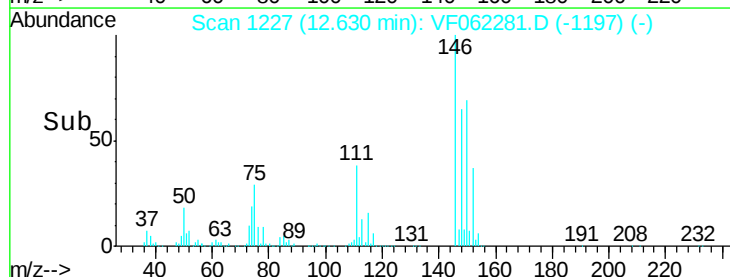
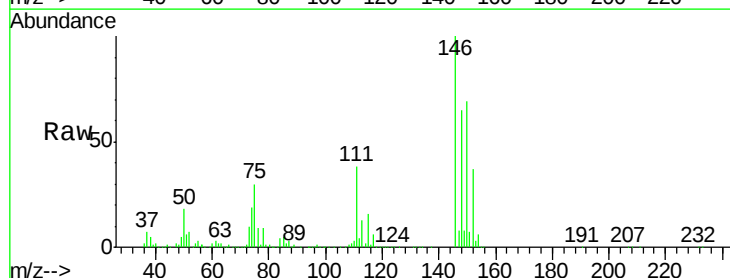
Manual Integrations
 APPROVED

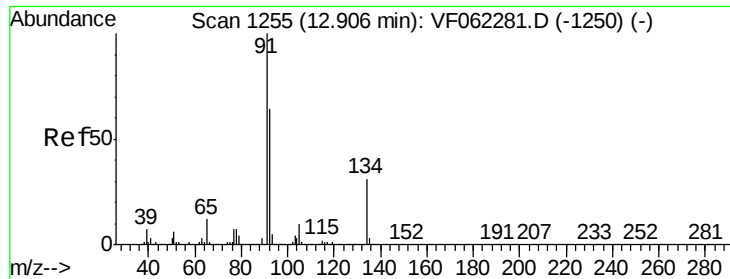
MMDadoda
 4/26/2019 9:21:00 AM



#88
 1,4-Dichlorobenzene
 Concen: 44.726 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.6	56.0
148	65.0	32.5	97.5





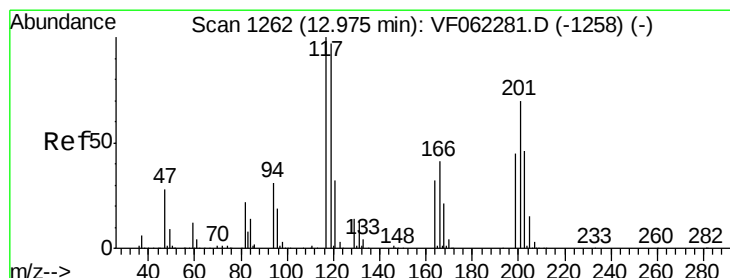
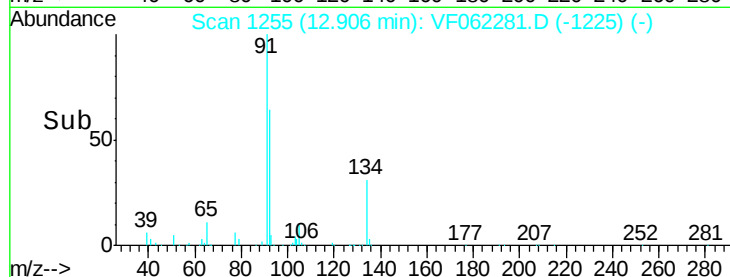
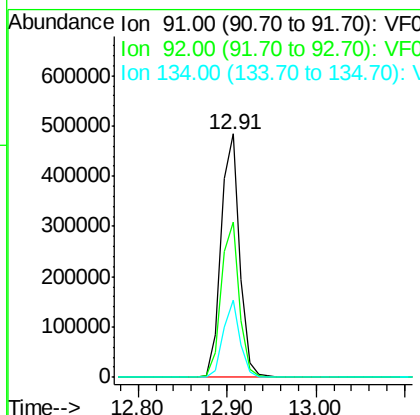
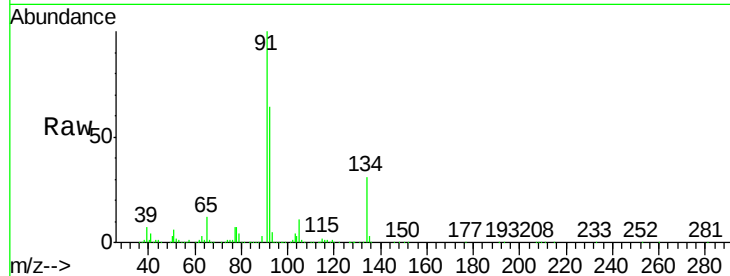
#89
n-Butylbenzene
Concen: 41.714 ug/l
RT: 12.91 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.2	31.1	93.3
134	28.9	14.4	43.4

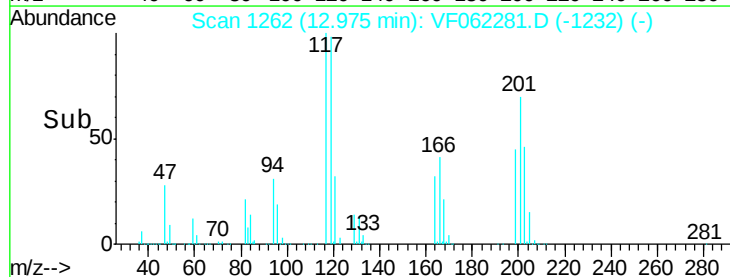
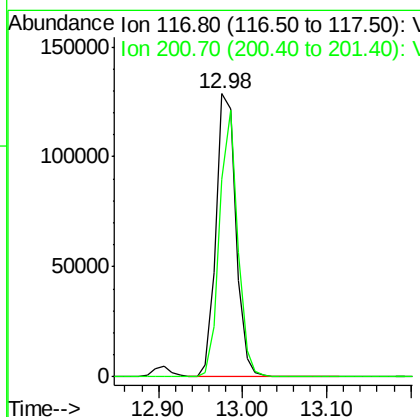
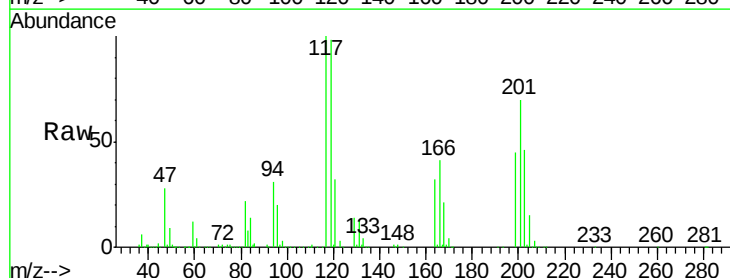
Manual Integrations
APPROVED

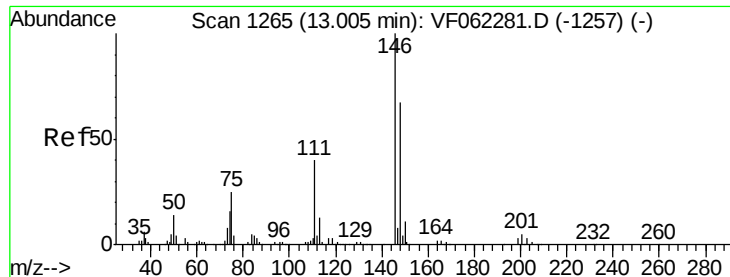
MMDadoda
4/26/2019 9:21:00 AM



#90
Hexachloroethane
Concen: 47.018 ug/l
RT: 12.98 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.7	42.9	128.5





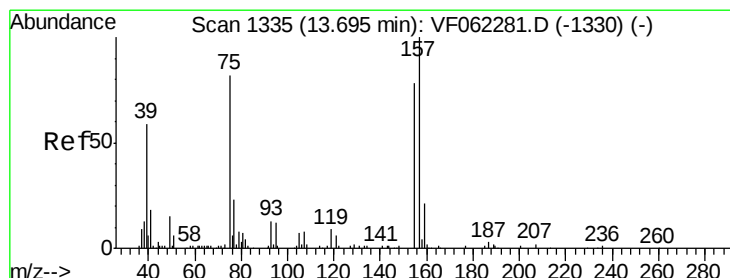
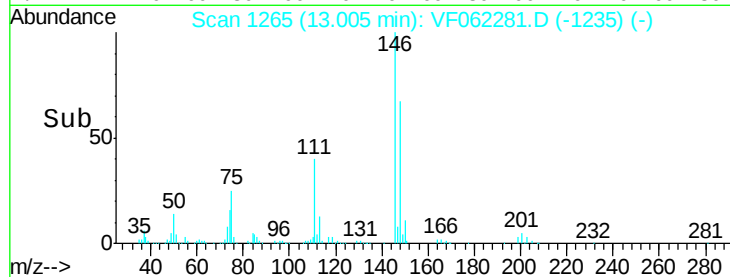
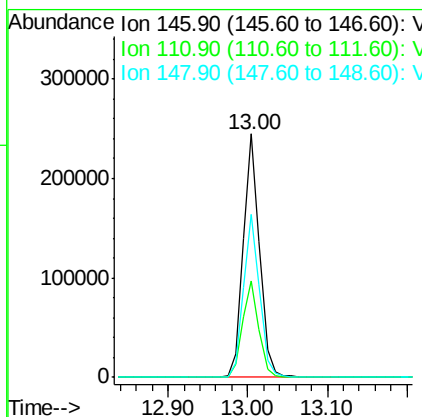
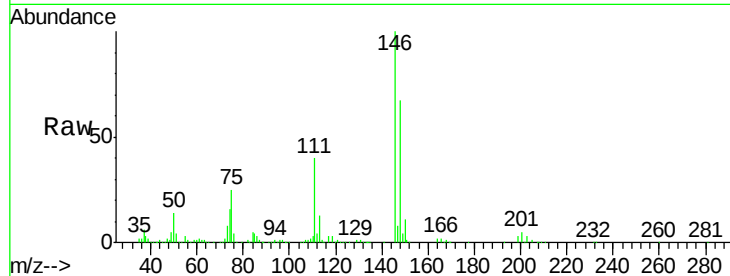
#91
 1,2-Dichlorobenzene
 Concen: 43.464 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	345168		
111	39.9	20.0	59.9	
148	66.3	33.1	99.5	

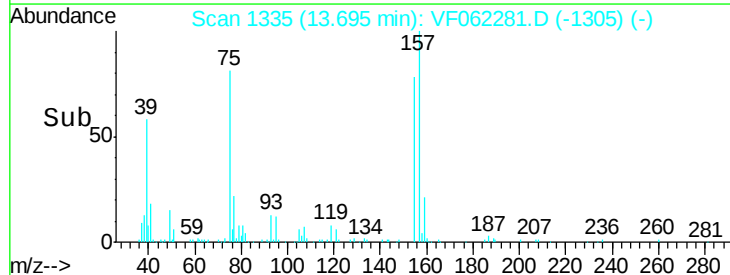
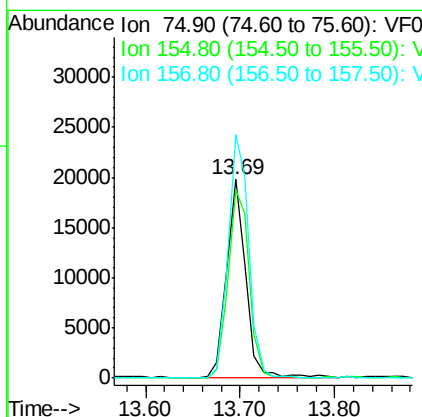
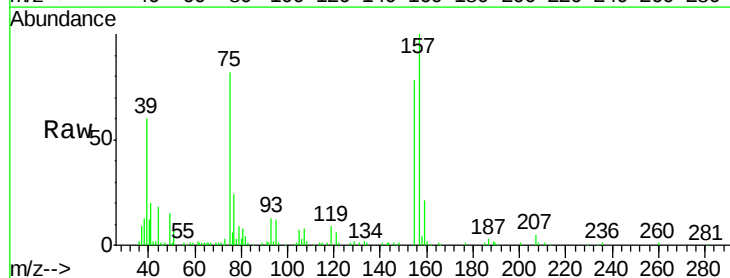
Manual Integrations
 APPROVED

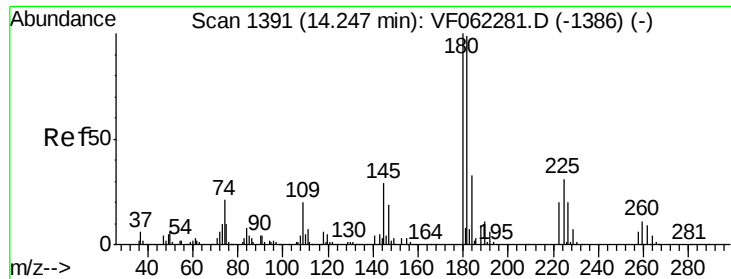
MMDadoda
 4/26/2019 9:21:00 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.852 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	27954		
155	103.5	51.7	155.2	
157	129.0	64.5	193.5	





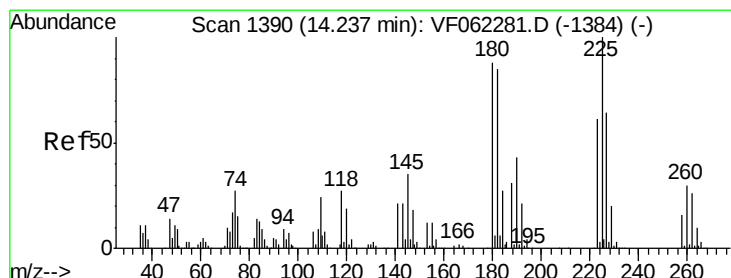
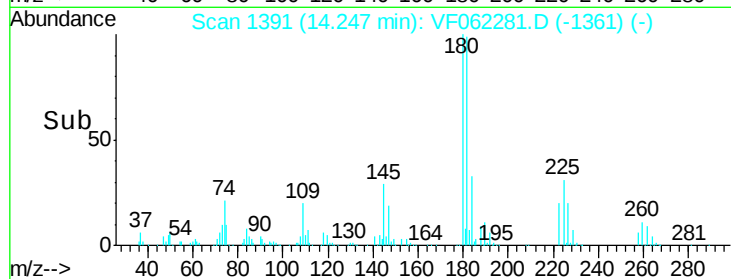
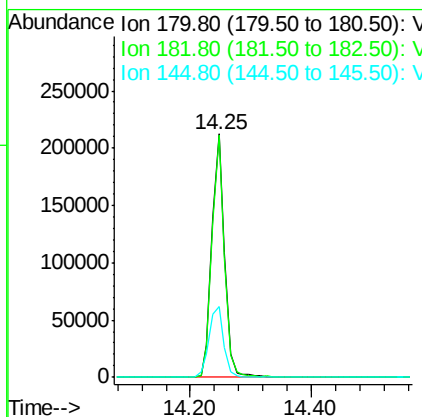
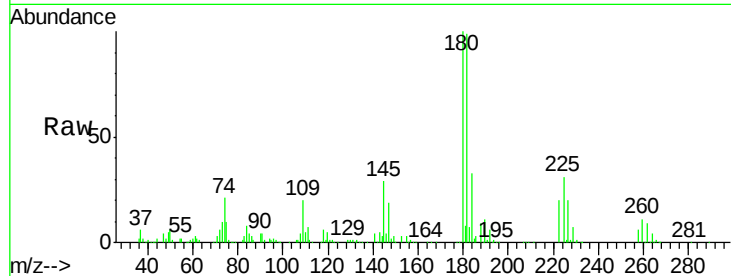
#93
 1,2,4-Trichlorobenzene
 Concen: 44.388 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	312324		
182	97.1	48.5	145.6	
145	33.4	16.7	50.1	

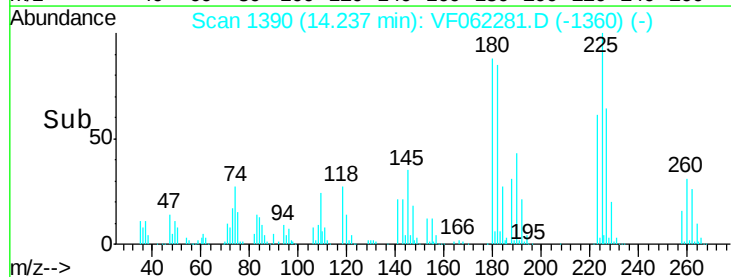
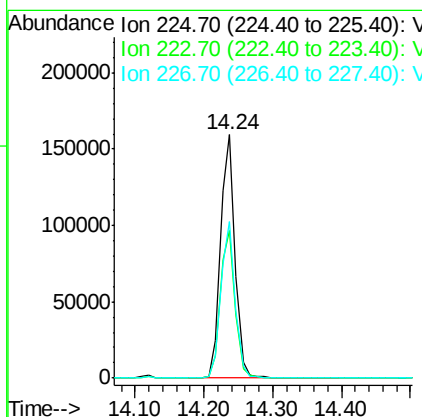
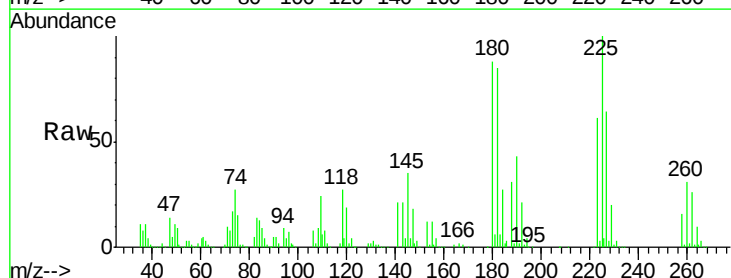
Manual Integrations
 APPROVED

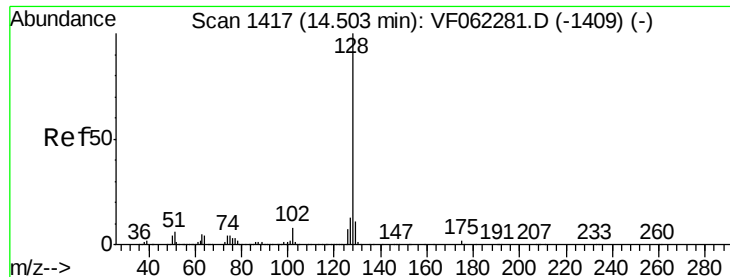
MMDadoda
 4/26/2019 9:21:00 AM



#94
 Hexachlorobutadiene
 Concen: 46.357 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062281.D
 Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	231516		
223	61.5	30.8	92.3	
227	63.7	31.9	95.5	





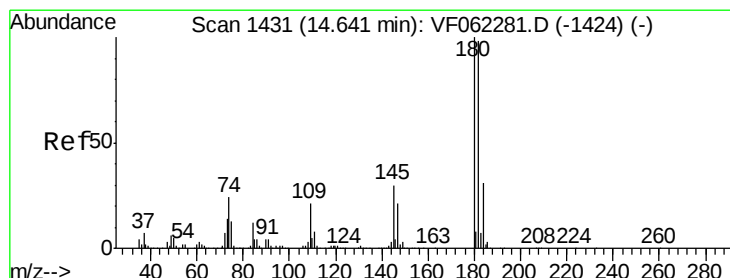
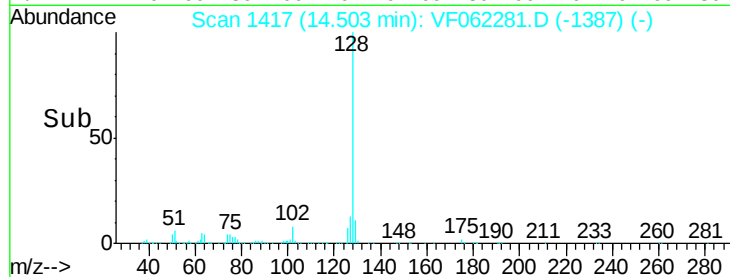
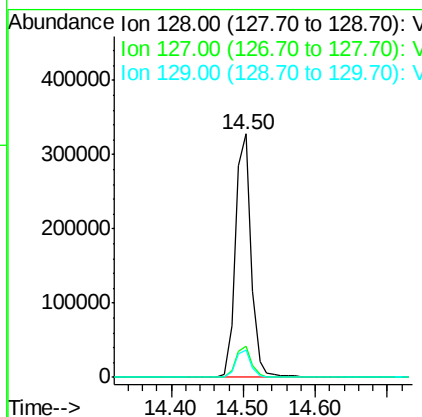
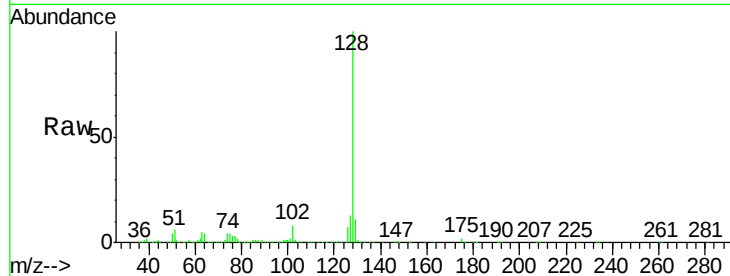
#95
Naphthalene
Concen: 47.849 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	499901		
127	12.8	10.2	15.4	
129	11.1	8.9	13.3	

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:00 AM



#96
1,2,3-Trichlorobenzene
Concen: 46.324 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VF062281.D
Acq: 24 Apr 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	300002		
182	98.1	49.0	147.2	
145	29.0	14.5	43.5	

