

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082319\
 Data File : VW012124.D
 Acq On : 23 Aug 2019 09:19
 Operator : SY/VA
 Sample : VSTDIC005
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 11:38:51 AM

Quant Time: Aug 26 07:11:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:02:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	268949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	433856	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	371058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	179665	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	17488	5.47	ug/l	0.00
Spiked Amount			Recovery	=	10.94%	
35) Dibromofluoromethane	7.88	113	14052	5.43	ug/l	0.00
Spiked Amount			Recovery	=	10.86%	
50) Toluene-d8	10.32	98	55256	5.26	ug/l	0.00
Spiked Amount			Recovery	=	10.52%	
62) 4-Bromofluorobenzene	12.62	95	20403	5.51	ug/l	0.00
Spiked Amount			Recovery	=	11.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	9168	5.536	ug/l	96
3) Chloromethane	2.21	50	14994	5.844	ug/l	96
4) Vinyl Chloride	2.36	62	17592	5.602	ug/l	99
5) Bromomethane	2.78	94	9168	5.765	ug/l	98
6) Chloroethane	2.92	64	9486	5.355	ug/l #	74
7) Trichlorofluoromethane	3.25	101	7451	4.725	ug/l	99
8) Diethyl Ether	3.68	74	7708	5.150	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	4.06	101	14690	5.481	ug/l	97
10) Methyl Iodide	4.26	142	19185	5.290	ug/l	98
11) Tert butyl alcohol	5.18	59	4635	23.799	ug/l	97
12) 1,1-Dichloroethene	4.04	96	14454	5.358	ug/l	97
13) Acrolein	3.89	56	4578	25.277	ug/l	88
14) Allyl chloride	4.67	41	29168	5.058	ug/l	97
15) Acrylonitrile	5.37	53	18696	25.202	ug/l	99
16) Acetone	4.12	43	19081	23.348	ug/l	92
17) Carbon Disulfide	4.38	76	43711	5.361	ug/l	99
18) Methyl Acetate	4.67	43	10640	5.256	ug/l	97
19) Methyl tert-butyl Ether	5.42	73	22483	5.154	ug/l	99
20) Methylene Chloride	4.92	84	18907	6.120	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	14993	5.183	ug/l	98
22) Diisopropyl ether	6.31	45	53302	4.986	ug/l	93
23) Vinyl Acetate	6.26	43	153390	23.316	ug/l	99
24) 1,1-Dichloroethane	6.21	63	29904	5.138	ug/l	97
25) 2-Butanone	7.18	43	25409	22.879	ug/l	94
26) 2,2-Dichloropropane	7.16	77	18199	5.524	ug/l	100
27) cis-1,2-Dichloroethene	7.16	96	15569	5.037	ug/l	97
28) Bromochloromethane	7.51	49	14577	5.746	ug/l	99
29) Tetrahydrofuran	7.54	42	15191	22.799	ug/l	95
30) Chloroform	7.68	83	28454	5.343	ug/l	99
31) Cyclohexane	7.95	56	34903	6.061	ug/l #	85
32) 1,1,1-Trichloroethane	7.87	97	21944	5.209	ug/l	99
36) 1,1-Dichloropropene	8.09	75	23405	5.220	ug/l	98
37) Ethyl Acetate	7.25	43	12726	5.180	ug/l	98
38) Carbon Tetrachloride	8.07	117	19665	5.068	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082319\
 Data File : VW012124.D
 Acq On : 23 Aug 2019 09:19
 Operator : SY/VA
 Sample : VSTDIC005
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 11:38:51 AM

Quant Time: Aug 26 07:11:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:02:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	26089	5.180	ug/l	98
40) Benzene	8.32	78	63587	5.194	ug/l	94
41) Methacrylonitrile	7.48	41	6087	4.215	ug/l #	91
42) 1,2-Dichloroethane	8.40	62	19614	5.112	ug/l	97
43) Isopropyl Acetate	8.43	43	21985	4.831	ug/l	100
44) Trichloroethene	9.09	130	15459	5.194	ug/l	92
45) 1,2-Dichloropropane	9.37	63	16885	5.125	ug/l	100
46) Dibromomethane	9.46	93	7629	5.204	ug/l	97
47) Bromodichloromethane	9.64	83	19295	4.946	ug/l	96
48) Methyl methacrylate	9.44	41	9921	4.580	ug/l	96
49) 1,4-Dioxane	9.46	88	2016	89.832	ug/l #	90
51) 4-Methyl-2-Pentanone	10.21	43	54751	23.654	ug/l	96
52) Toluene	10.39	92	37249	5.065	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	18213	4.583	ug/l	90
54) cis-1,3-Dichloropropene	10.07	75	22382	4.664	ug/l	93
55) 1,1,2-Trichloroethane	10.79	97	10234	4.934	ug/l	97
56) Ethyl methacrylate	10.65	69	13551	4.489	ug/l	97
57) 1,3-Dichloropropane	10.93	76	19197	4.898	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	35836	23.131	ug/l	100
59) 2-Hexanone	10.97	43	36239	22.127	ug/l	99
60) Dibromochloromethane	11.13	129	11122	4.814	ug/l	97
61) 1,2-Dibromoethane	11.23	107	9460	4.896	ug/l	100
64) Tetrachloroethene	10.87	164	12386	5.149	ug/l	95
65) Chlorobenzene	11.66	112	37556	5.140	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.73	131	12476	4.895	ug/l	96
67) Ethyl Benzene	11.73	91	71209	5.059	ug/l	97
68) m/p-Xylenes	11.84	106	51045	10.068	ug/l	99
69) o-Xylene	12.16	106	22769	4.852	ug/l	100
70) Styrene	12.18	104	39497	4.863	ug/l	98
71) Bromoform	12.35	173	6012	4.734	ug/l #	99
73) Isopropylbenzene	12.46	105	65903	4.895	ug/l	100
74) N-amyl acetate	12.27	43	17686	4.348	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	12138	4.918	ug/l	96
76) 1,2,3-Trichloropropane	12.77	75	9019m	5.210	ug/l	
77) Bromobenzene	12.74	156	14693	5.045	ug/l	99
78) n-propylbenzene	12.80	91	80276	4.884	ug/l	98
79) 2-Chlorotoluene	12.89	91	47182	5.057	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	54871	4.878	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.52	75	3301	4.136	ug/l	87
82) 4-Chlorotoluene	12.99	91	49820	5.099	ug/l	99
83) tert-Butylbenzene	13.21	119	46670	4.898	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	56274	4.980	ug/l	99
85) sec-Butylbenzene	13.38	105	69246	5.072	ug/l	99
86) p-Isopropyltoluene	13.50	119	60828	4.989	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	29228	5.131	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	29580	5.229	ug/l	93
89) n-Butylbenzene	13.82	91	59415	4.900	ug/l	99
90) Hexachloroethane	14.09	117	10659	4.983	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	25406	5.084	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2028	4.874	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082319\
Data File : VW012124.D
Acq On : 23 Aug 2019 09:19
Operator : SY/VA
Sample : VSTDICC005
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM

Quant Time: Aug 26 07:11:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:02:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	16469	4.769	ug/l	97
94) Hexachlorobutadiene	15.24	225	11853	5.198	ug/l	98
95) Naphthalene	15.37	128	24117	3.988	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	14161	4.700	ug/l	99

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

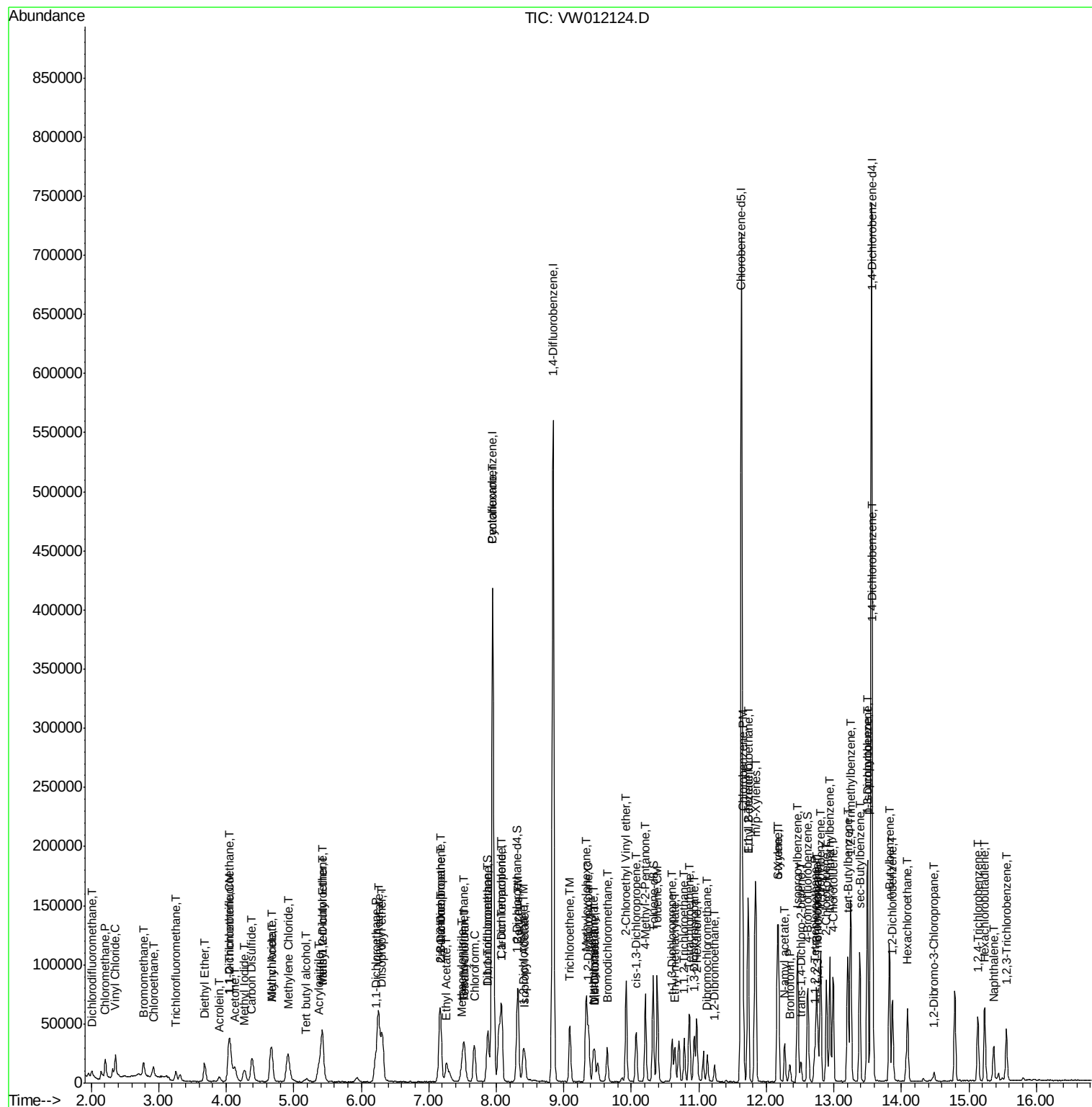
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW082319\
Data File : VW012124.D
Acq On : 23 Aug 2019 09:19
Operator : SY/VA
Sample : VSTDIC005
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

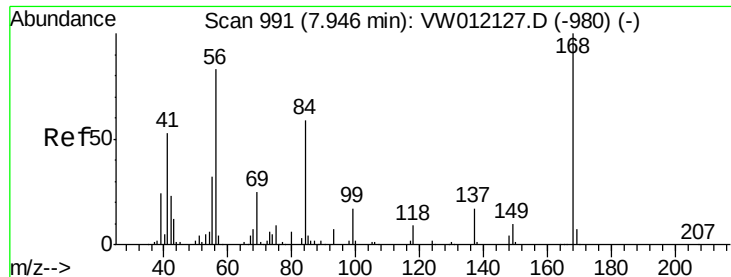
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM

Quant Time: Aug 26 07:11:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:02:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 268949

Ion Ratio Lower Upper

168 100

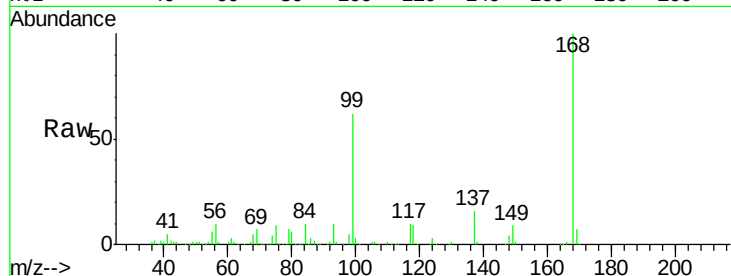
99 62.1 49.2 73.8

Manual Integrations

APPROVED

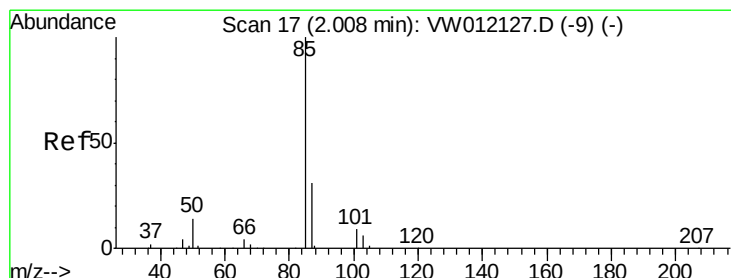
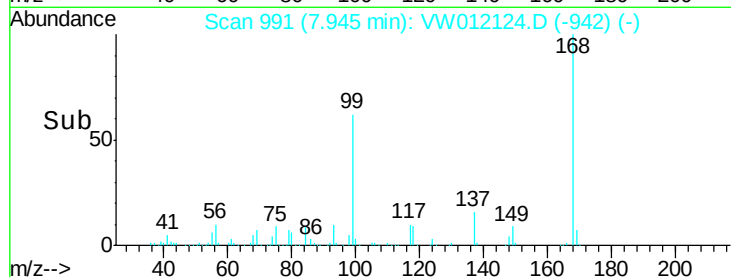
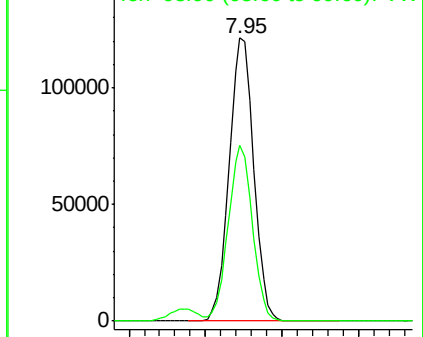
MMDadoda

8/26/2019 11:38:51 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 5.536 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW012124.D

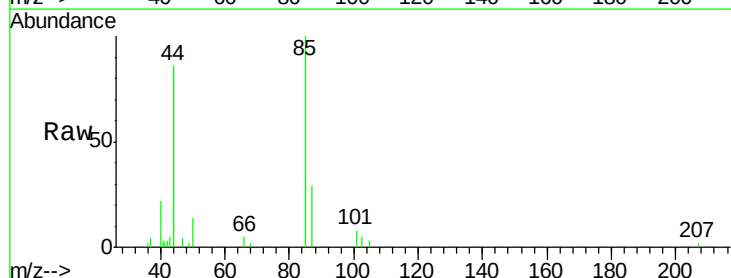
Acq: 23 Aug 2019 09:19

Tgt Ion: 85 Resp: 9168

Ion Ratio Lower Upper

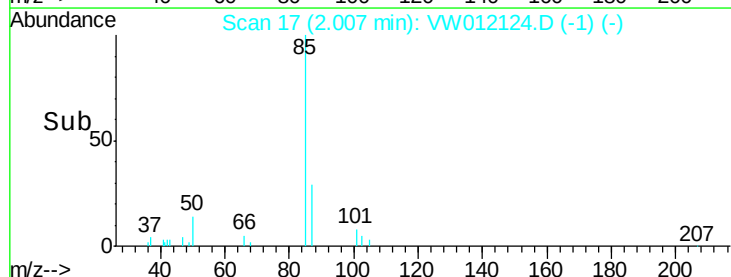
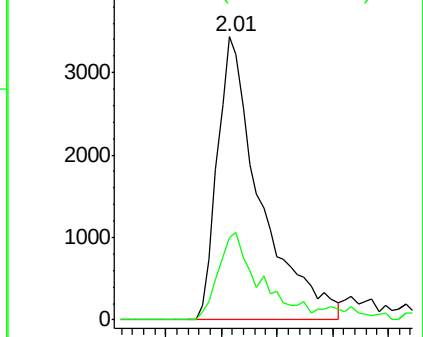
85 100

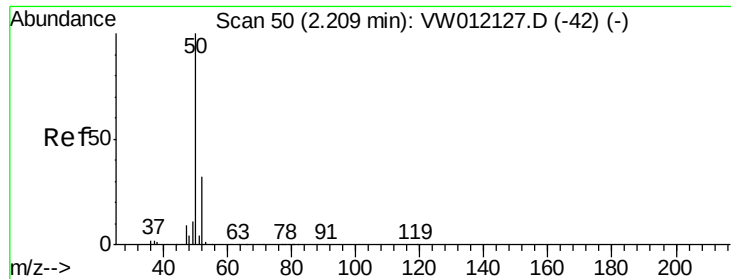
87 29.2 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 5.844 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 14994

Ion Ratio Lower Upper

50 100

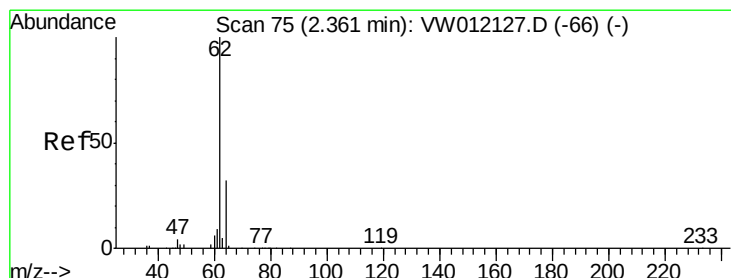
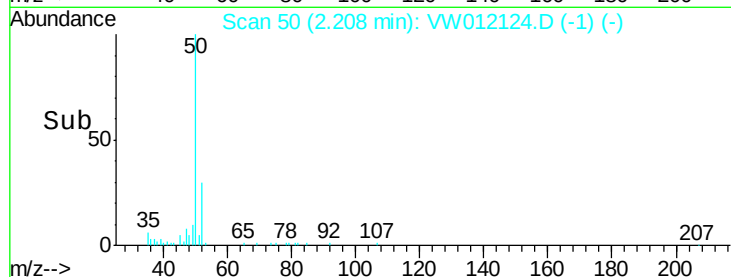
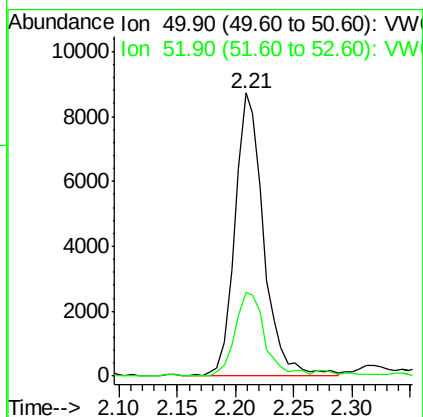
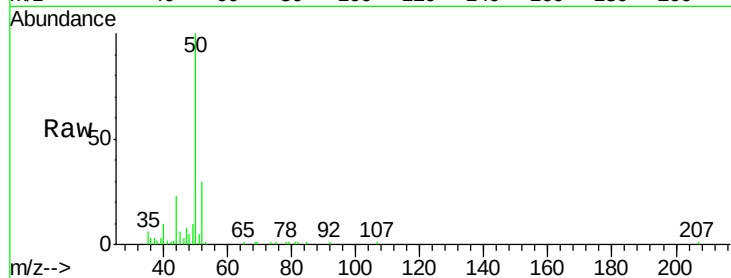
52 29.6 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

8/26/2019 11:38:51 AM



#4

Vinyl Chloride

Concen: 5.602 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012124.D

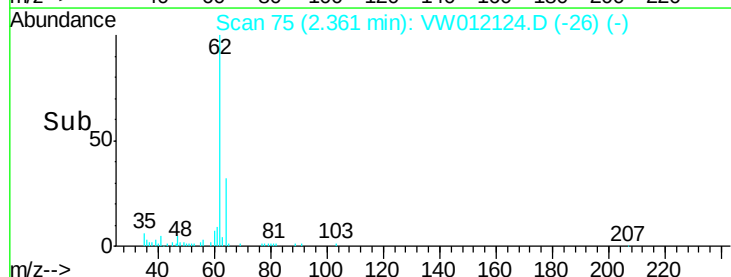
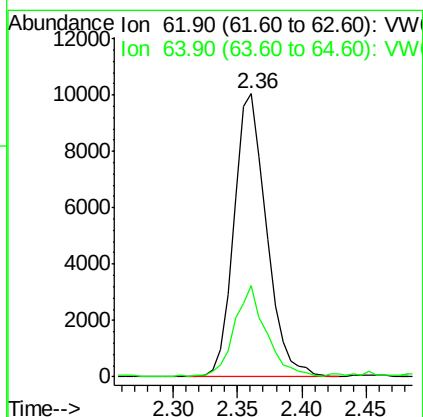
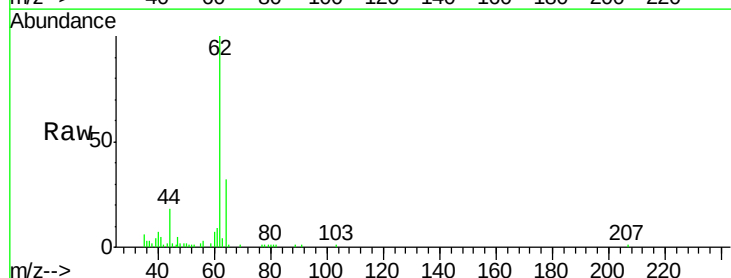
Acq: 23 Aug 2019 09:19

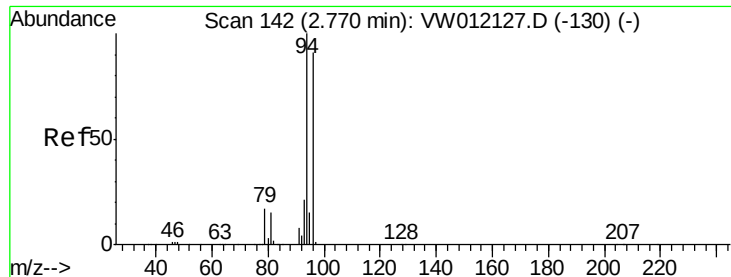
Tgt Ion: 62 Resp: 17592

Ion Ratio Lower Upper

62 100

64 32.3 25.3 37.9





#5

Bromomethane

Concen: 5.765 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 9168

Ion Ratio Lower Upper

94 100

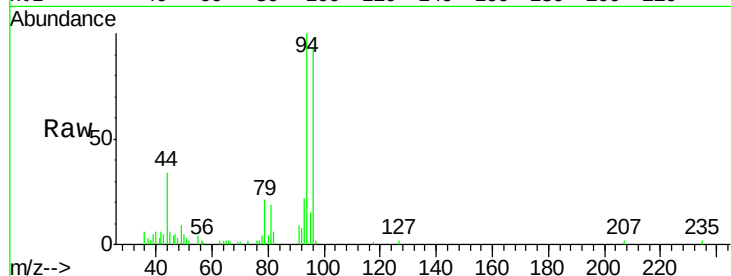
96 93.4 72.9 109.3

Manual Integrations

APPROVED

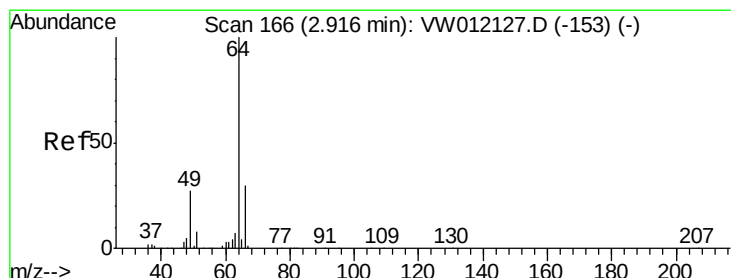
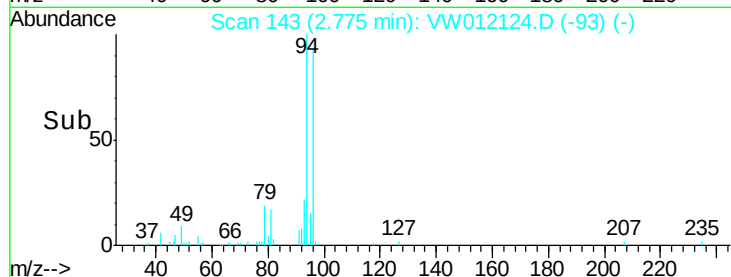
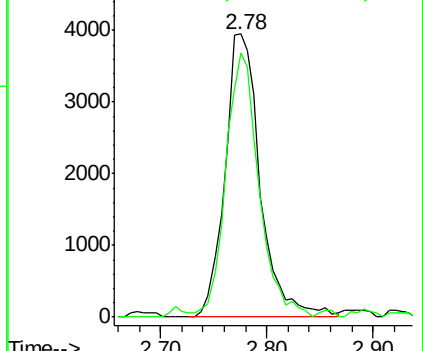
MMDadoda

8/26/2019 11:38:51 AM



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 5.355 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW012124.D

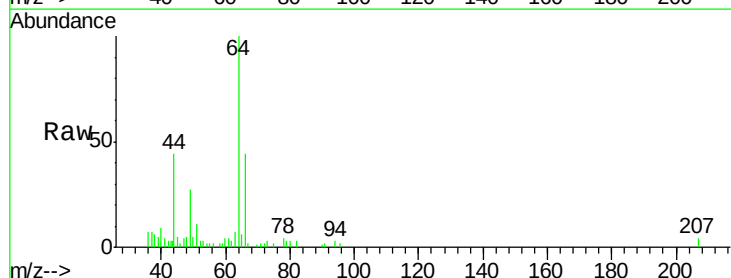
Acq: 23 Aug 2019 09:19

Tgt Ion: 64 Resp: 9486

Ion Ratio Lower Upper

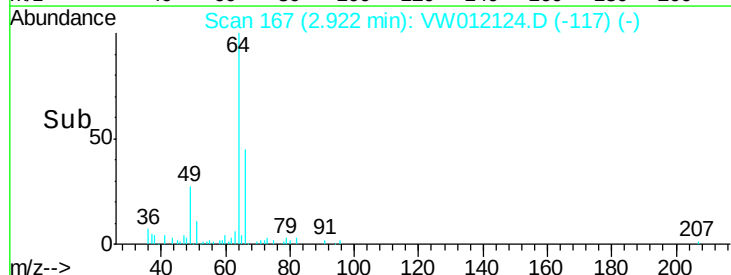
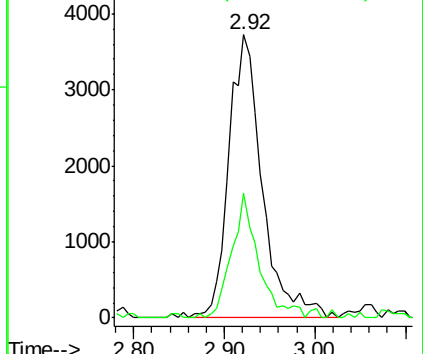
64 100

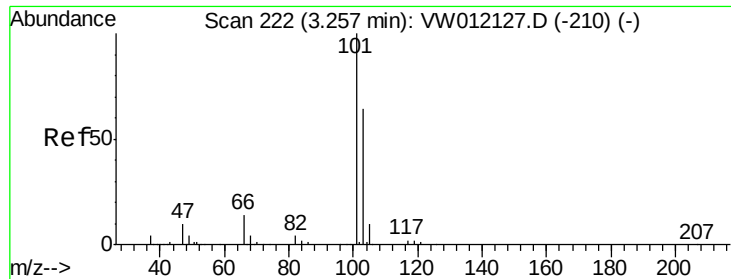
66 44.1 23.8 35.8#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#7

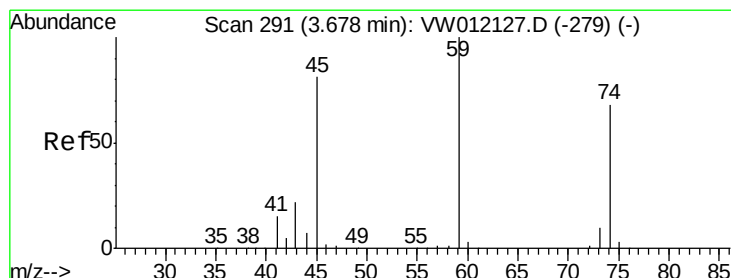
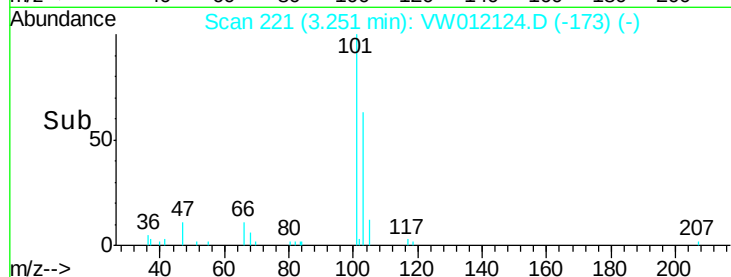
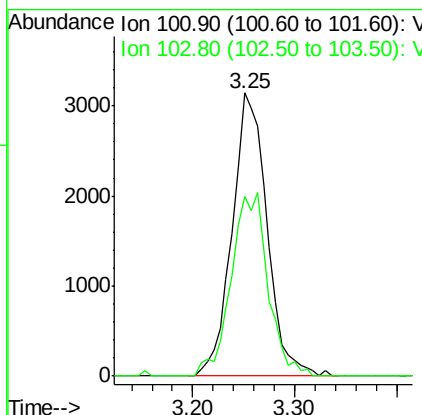
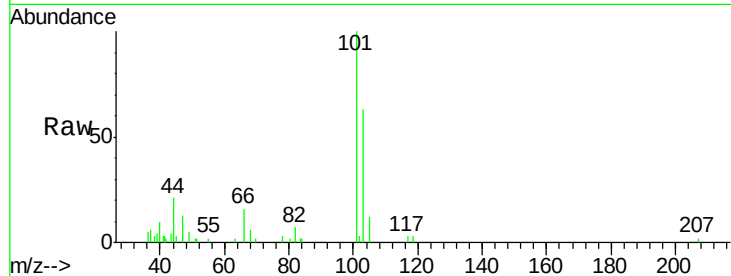
Trichlorofluoromethane
 Concen: 4.725 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.2	76.8

Manual Integrations
 APPROVED

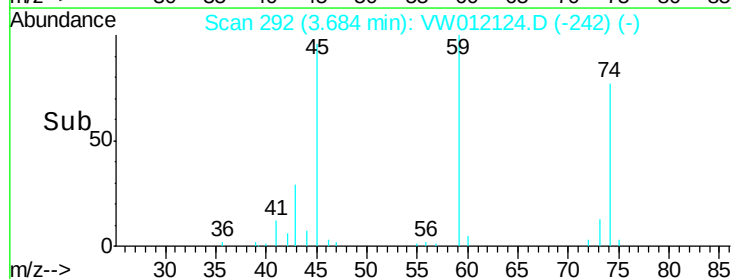
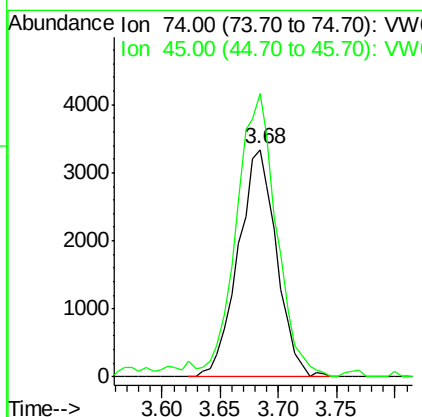
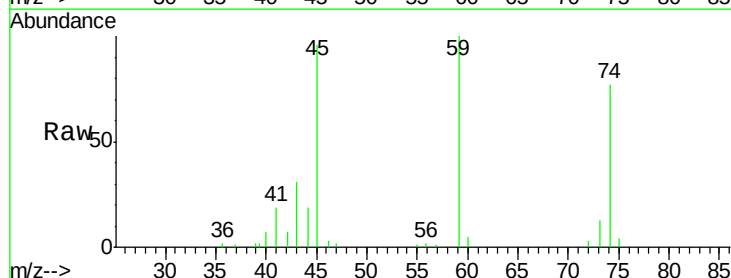
MMDadoda
 8/26/2019 11:38:51 AM

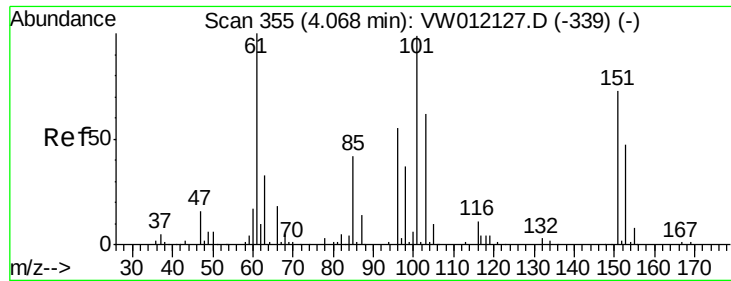


#8

Diethyl Ether
 Concen: 5.150 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.01 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	129.6	59.2	177.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.481 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

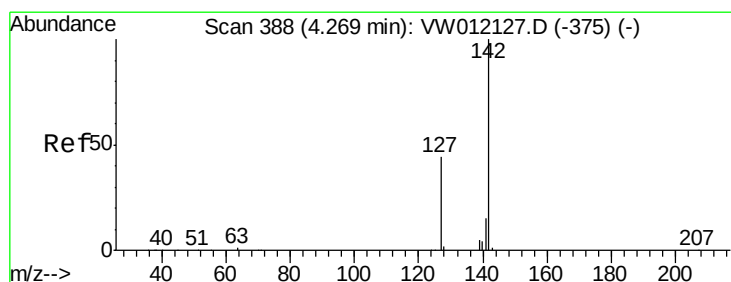
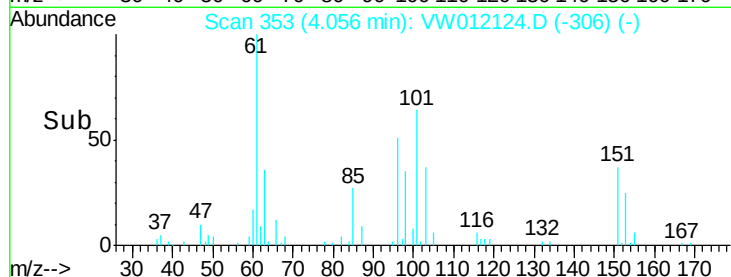
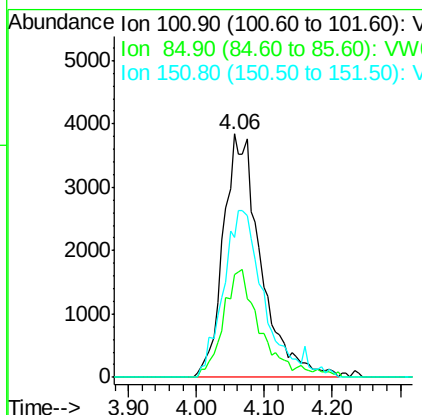
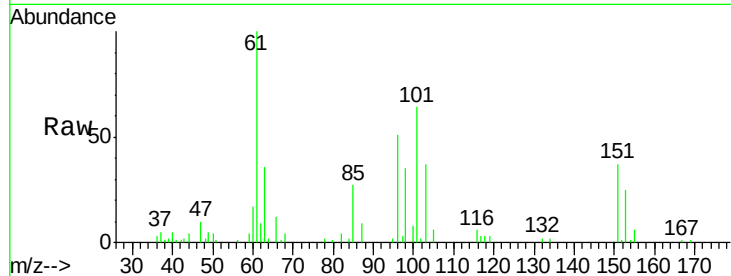
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	14690
Ion Ratio	Lower	Upper	
101	100		
85	41.7	35.8	53.6
151	72.0	58.6	87.8

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#10

Methyl Iodide

Concen: 5.290 ug/l

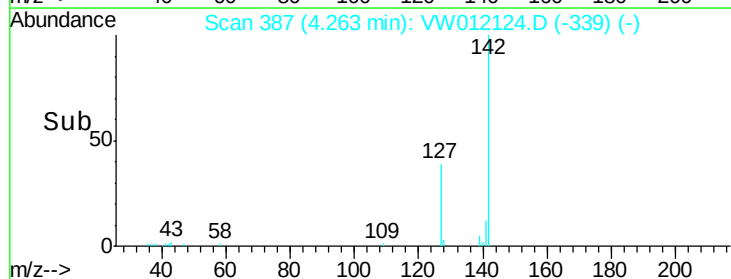
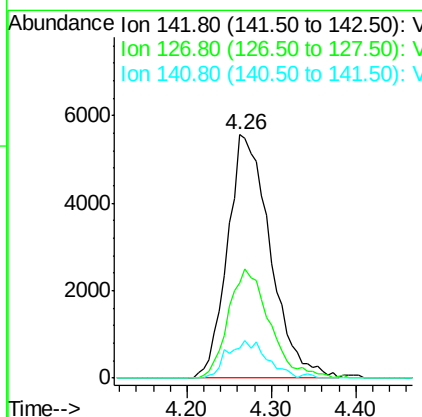
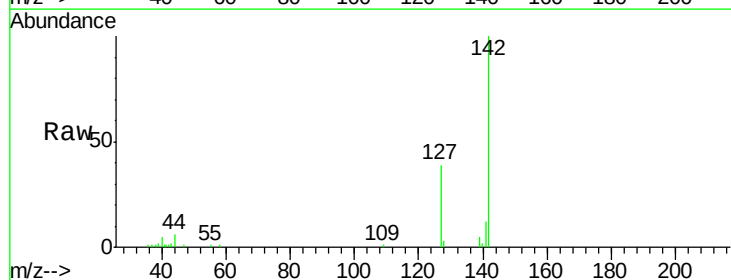
RT: 4.26 min Scan# 387

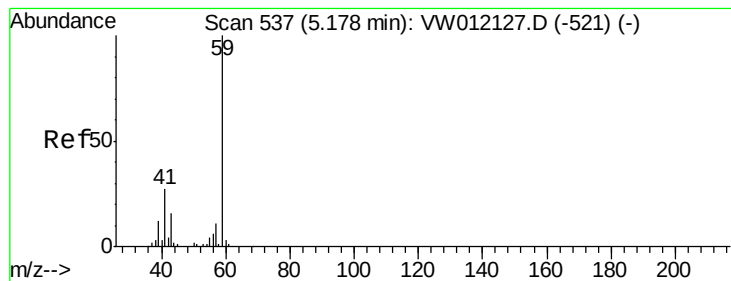
Delta R.T. -0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion:	142	Resp:	19185
Ion Ratio	Lower	Upper	
142	100		
127	43.1	35.5	53.3
141	14.0	11.8	17.8





#11

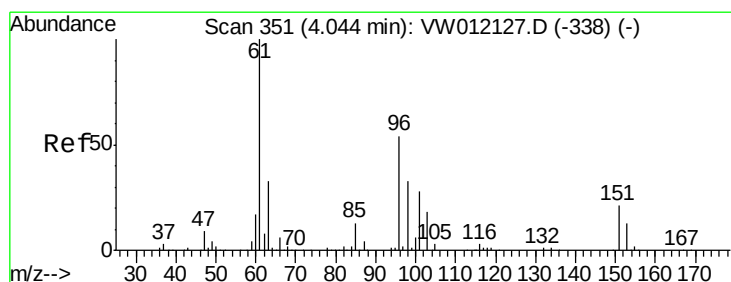
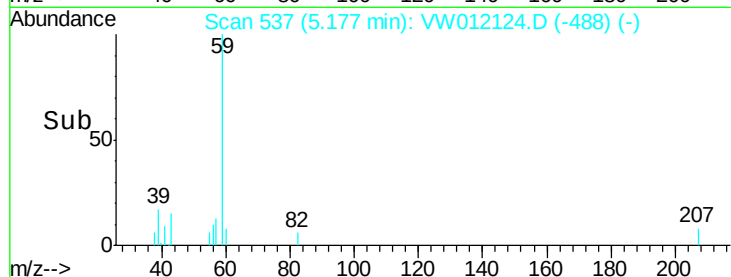
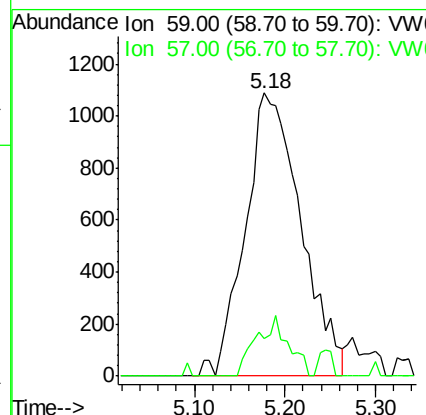
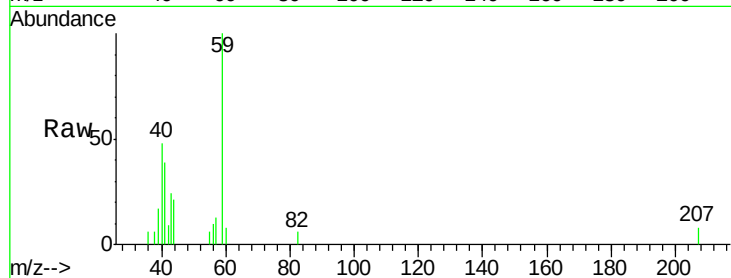
Tert butyl alcohol
Concen: 23.799 ug/l
RT: 5.18 min Scan# 537
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.2	9.0	13.4

Manual Integrations
APPROVED

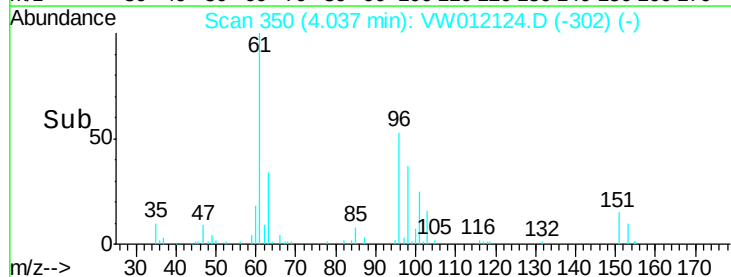
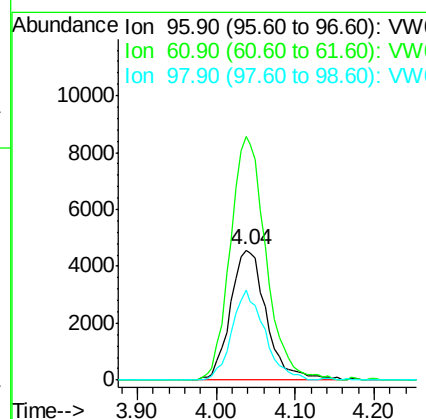
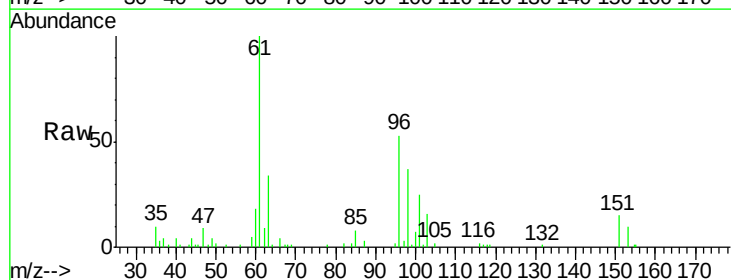
MMDadoda
8/26/2019 11:38:51 AM

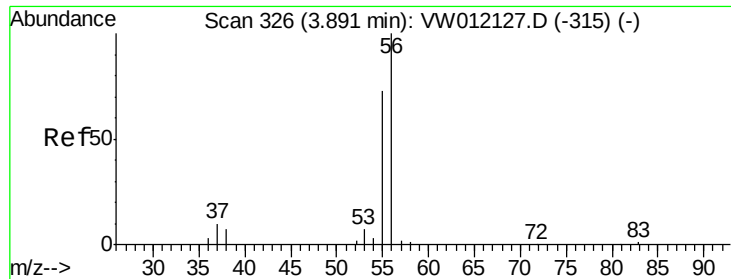


#12

1,1-Dichloroethene
Concen: 5.358 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	187.5	149.1	223.7
98	68.8	49.4	74.2





#13

Acrolein

Concen: 25.277 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 4578

Ion Ratio Lower Upper

56 100

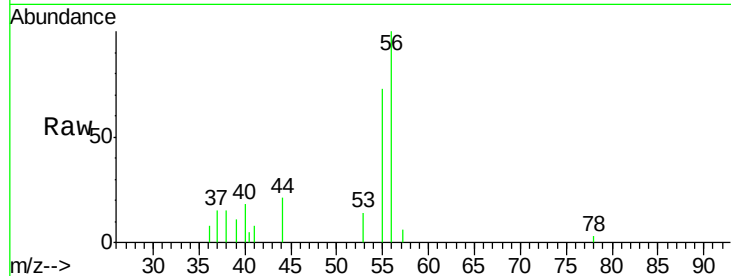
55 79.3 55.8 83.8

Manual Integrations

APPROVED

MMDadoda

8/26/2019 11:38:51 AM



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.89

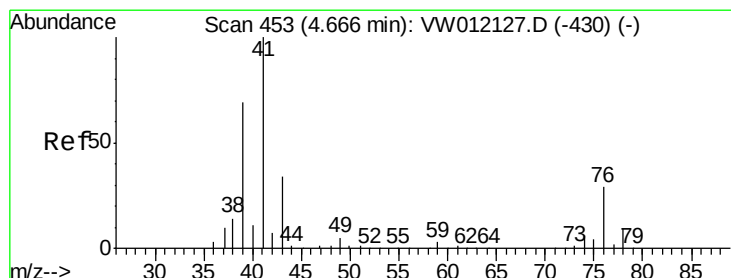
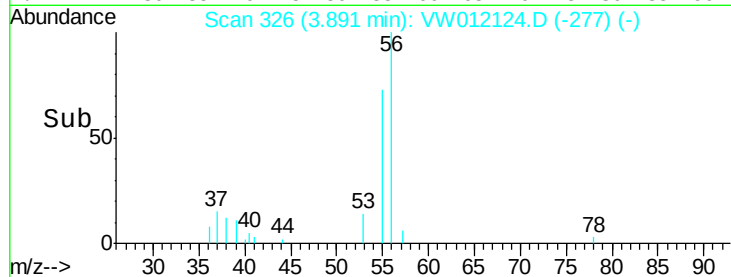
1500

1000

500

0

Time-->



#14

Allyl chloride

Concen: 5.058 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

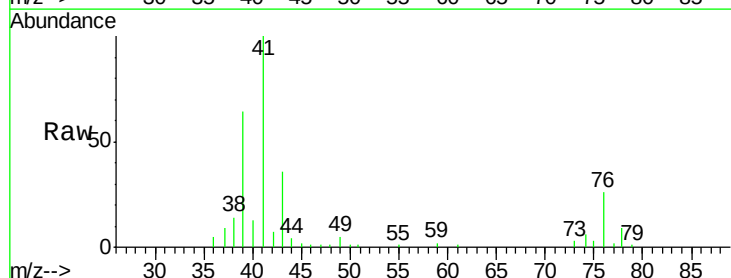
Tgt Ion: 41 Resp: 29168

Ion Ratio Lower Upper

41 100

39 70.2 53.4 80.2

76 27.6 22.1 33.1



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.67

12000

10000

8000

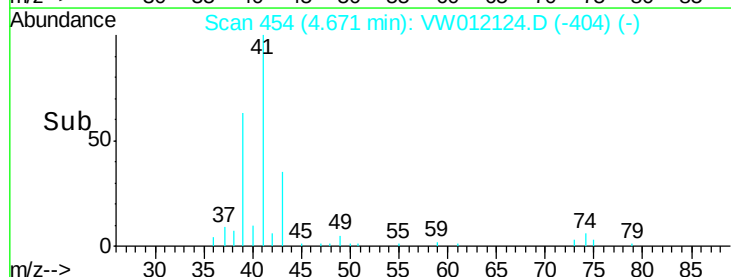
6000

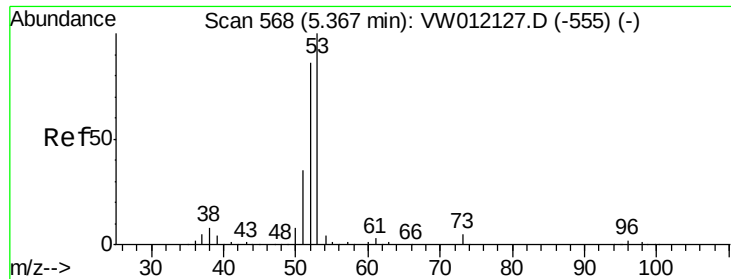
4000

2000

0

Time-->





#15

Acrylonitrile

Concen: 25.202 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

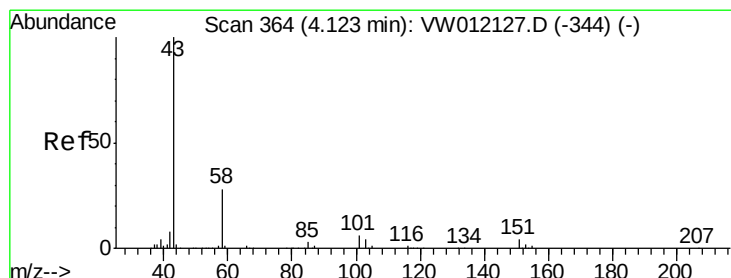
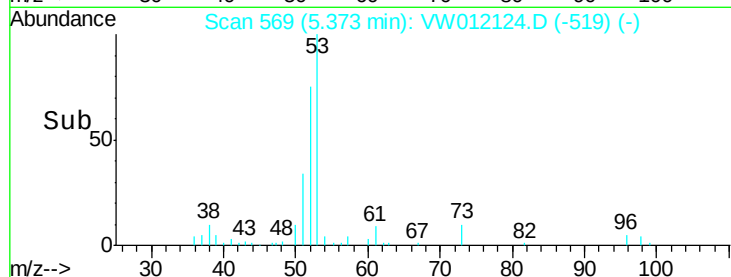
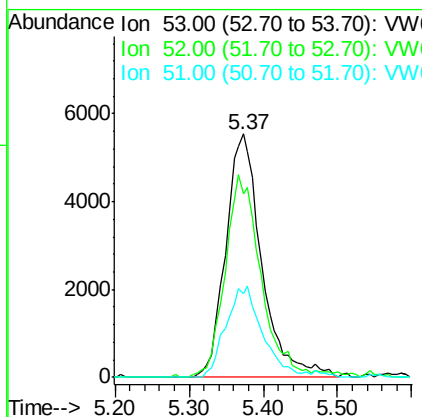
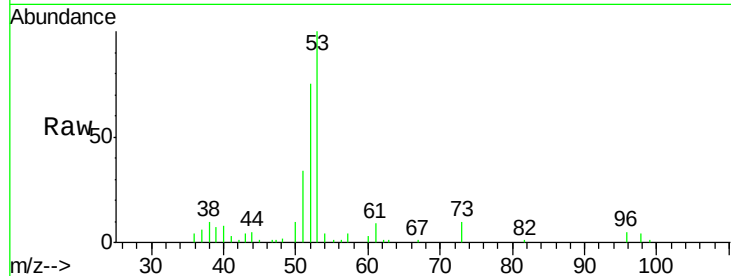
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	18696
Ion	Ratio	Lower	Upper
53	100		
52	84.1	66.7	100.1
51	37.5	30.1	45.1

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#16

Acetone

Concen: 23.348 ug/l

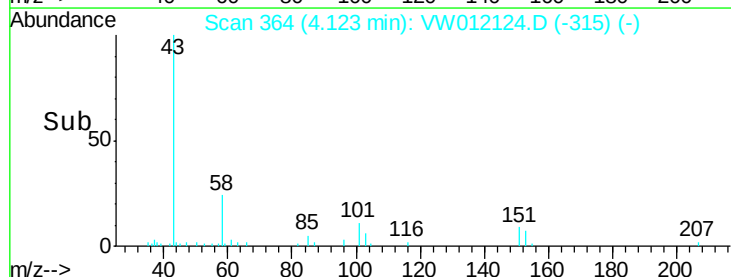
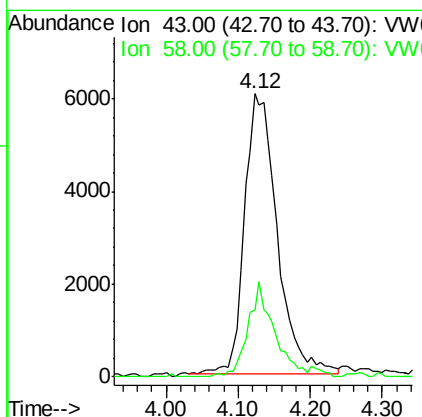
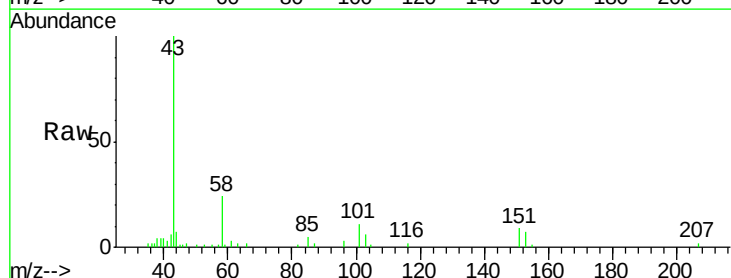
RT: 4.12 min Scan# 364

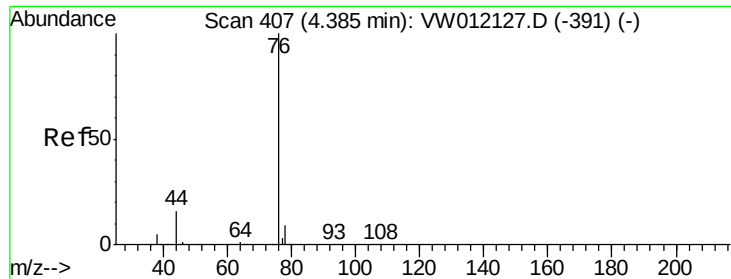
Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion:	43	Resp:	19081
Ion	Ratio	Lower	Upper
43	100		
58	24.0	22.4	33.6





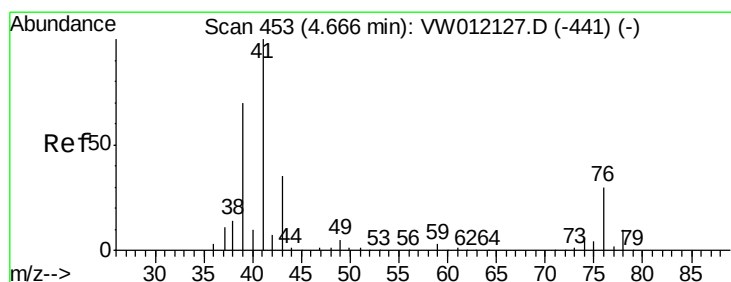
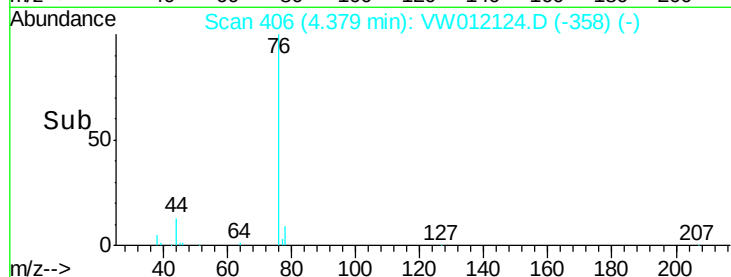
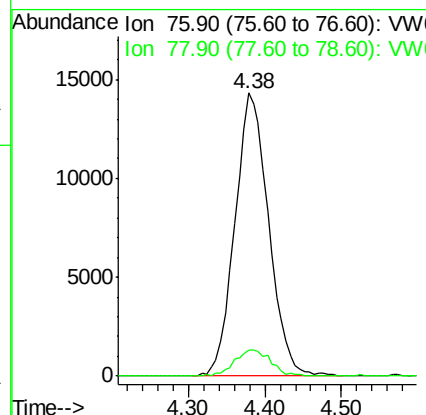
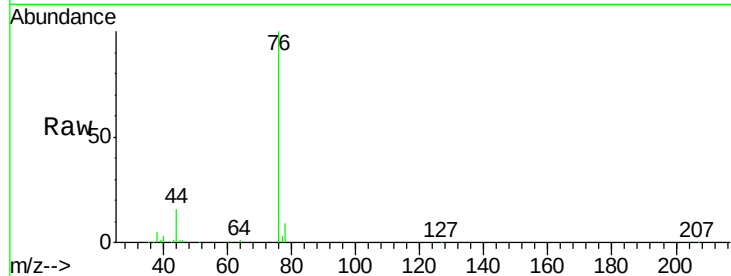
#17
Carbon Disulfide
Concen: 5.361 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

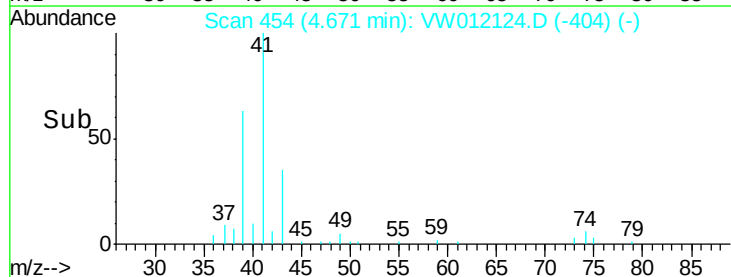
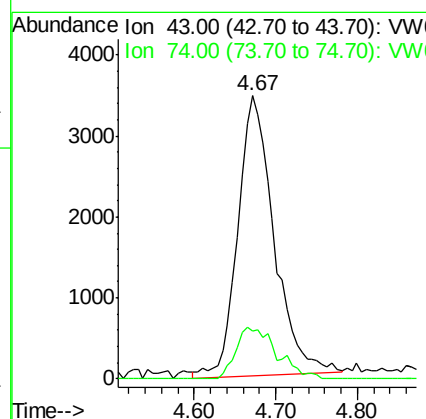
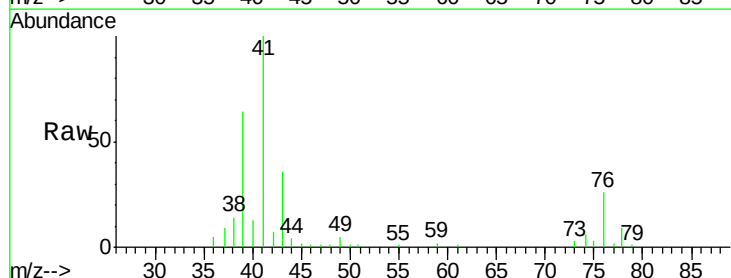
Manual Integrations
APPROVED

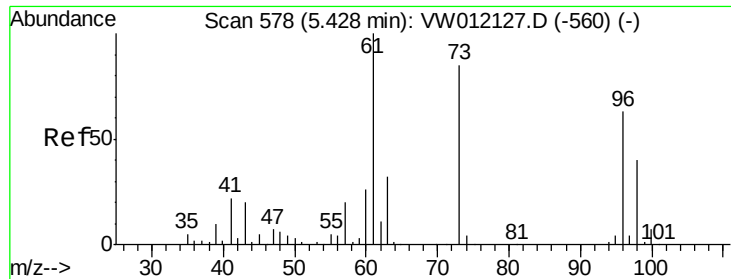
MMDadoda
8/26/2019 11:38:51 AM



#18
Methyl Acetate
Concen: 5.256 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.9	15.7	23.5





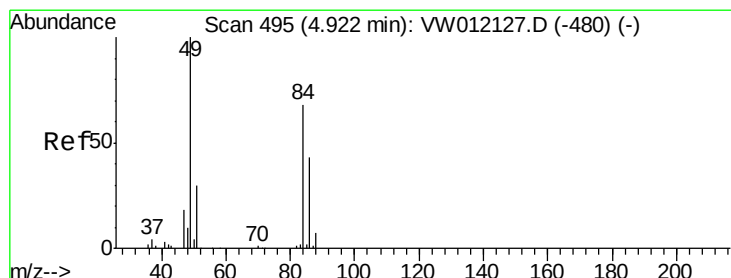
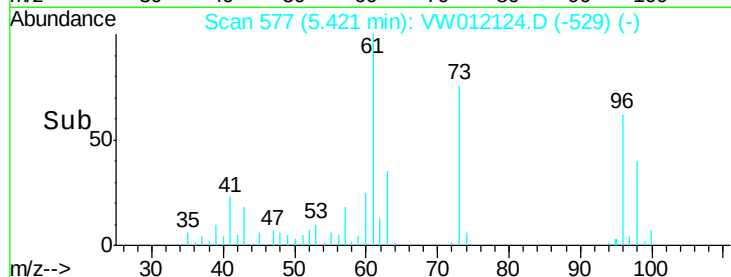
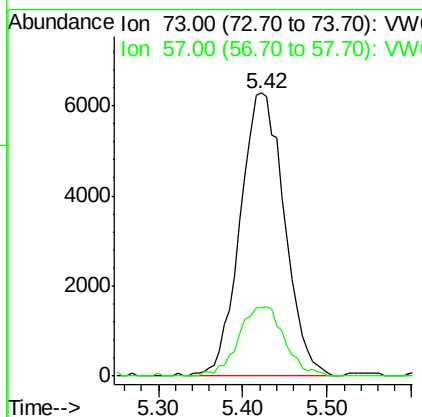
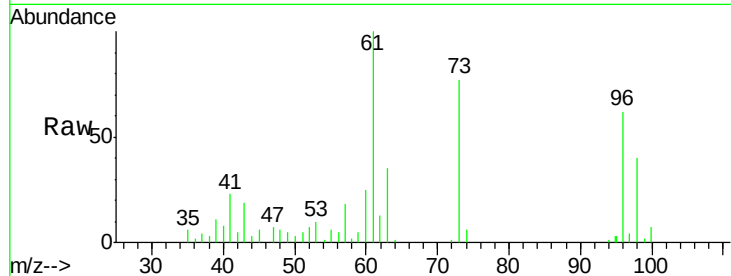
#19
Methyl tert-butyl Ether
Concen: 5.154 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	24.0	18.9	28.3

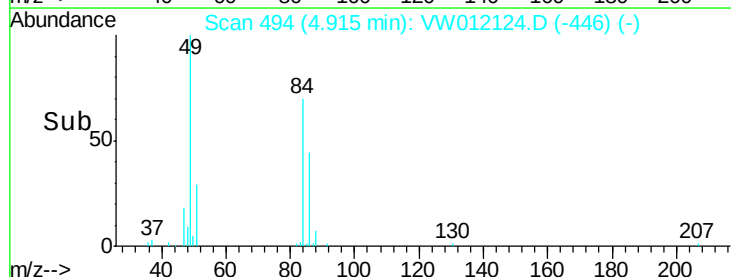
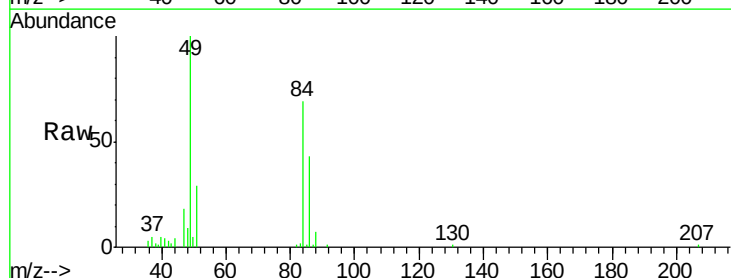
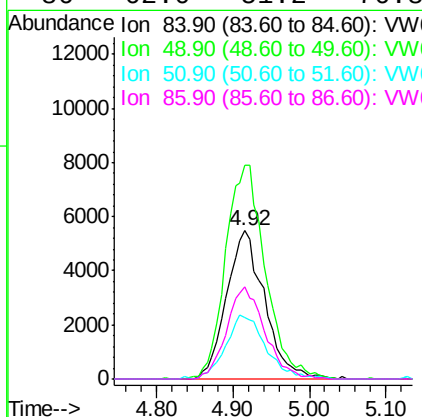
Manual Integrations
APPROVED

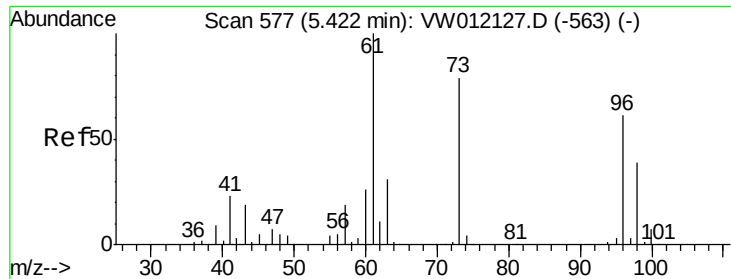
MMDadoda
8/26/2019 11:38:51 AM



#20
Methylene Chloride
Concen: 6.120 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	143.3	117.8	176.8
51	41.9	35.6	53.4
86	62.0	51.2	76.8





#21

trans-1,2-Dichloroethene

Concen: 5.183 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 14993

Ion Ratio Lower Upper

96 100

61 160.5 131.4 197.0

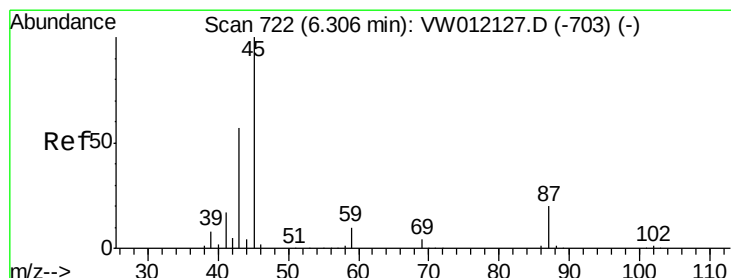
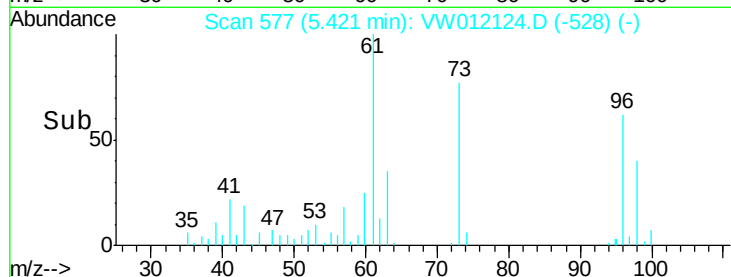
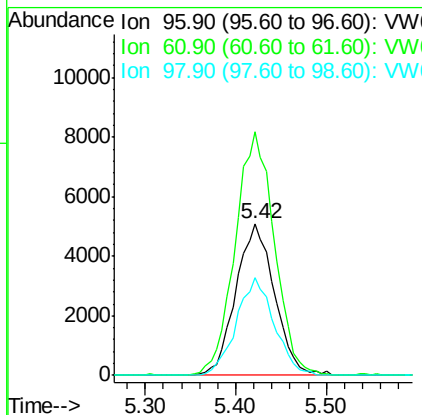
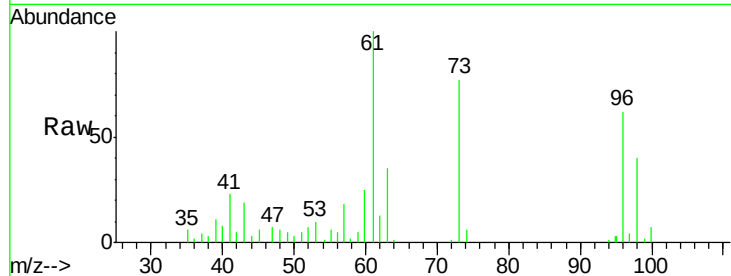
98 64.7 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

8/26/2019 11:38:51 AM



#22

Diisopropyl ether

Concen: 4.986 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion: 45 Resp: 53302

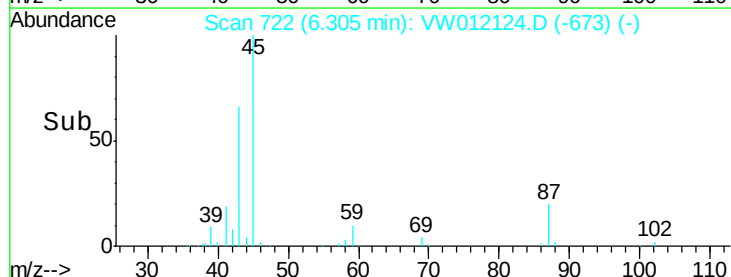
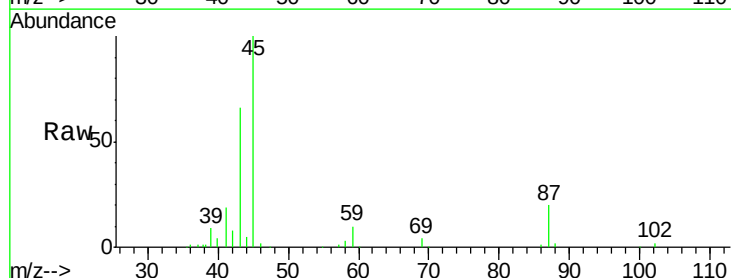
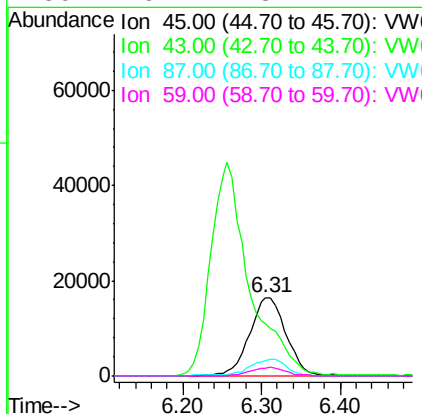
Ion Ratio Lower Upper

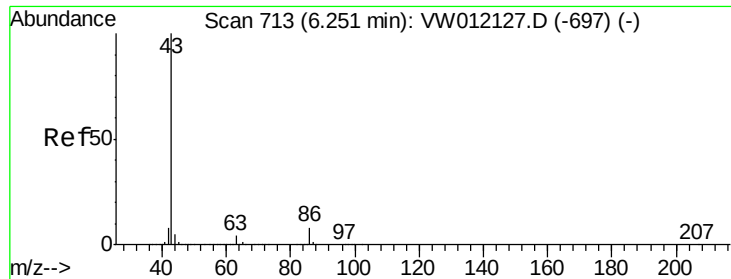
45 100

43 64.3 45.5 68.3

87 19.7 16.1 24.1

59 10.4 8.2 12.2





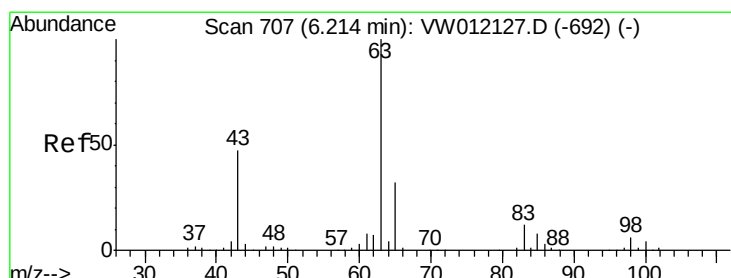
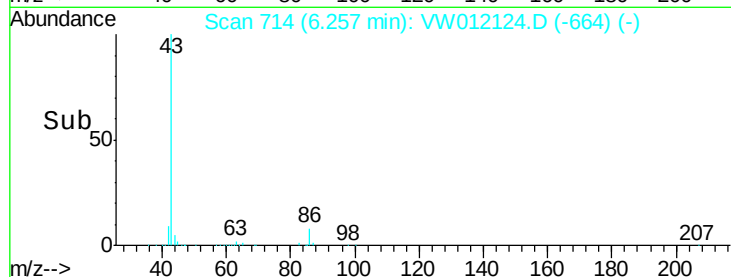
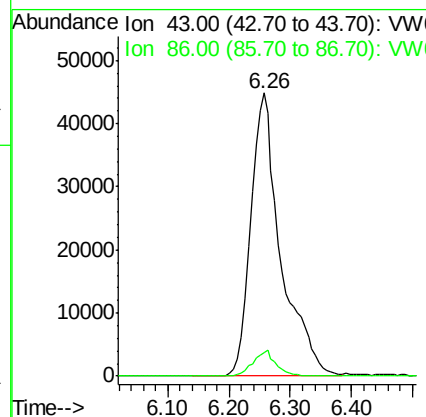
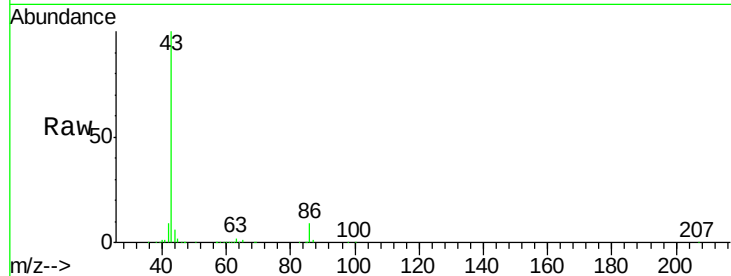
#23
 Vinyl Acetate
 Concen: 23.316 ug/l
 RT: 6.26 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	43	Resp	153390
Ion Ratio	100	Lower	Upper
43	100		
86	8.5	6.5	9.7

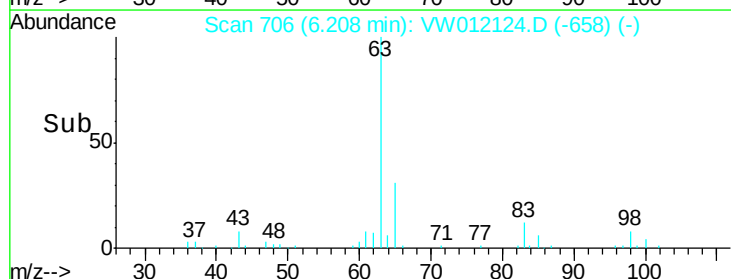
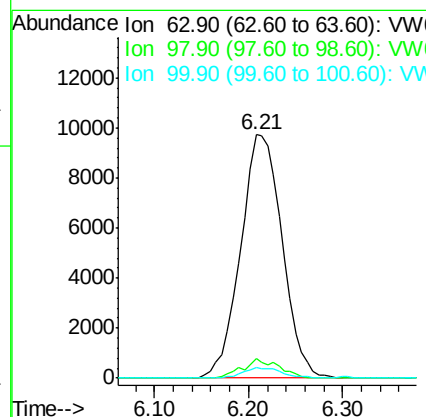
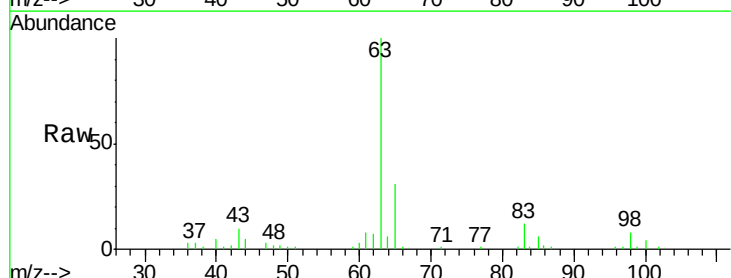
Manual Integrations
 APPROVED

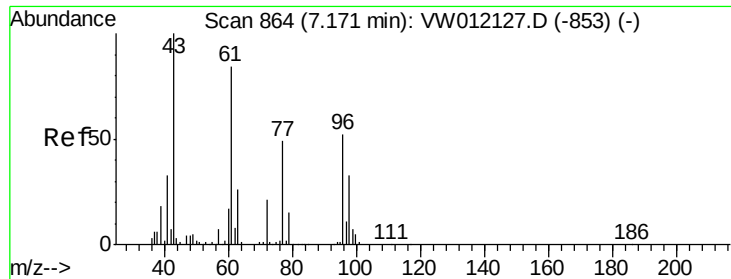
MMDadoda
 8/26/2019 11:38:51 AM



#24
 1,1-Dichloroethane
 Concen: 5.138 ug/l
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	63	Resp	29904
Ion Ratio	100	Lower	Upper
63	100		
98	7.9	3.0	9.2
100	4.2	2.0	6.0





#25

2-Butanone

Concen: 22.879 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 25409

Ion Ratio Lower Upper

43 100

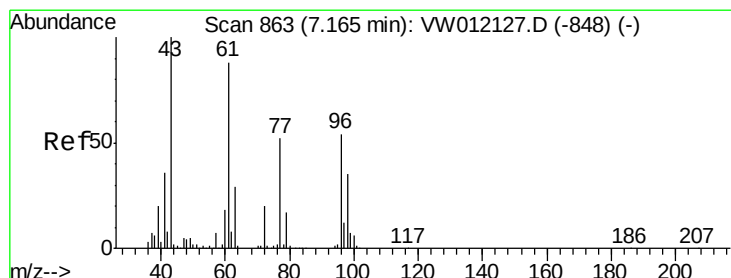
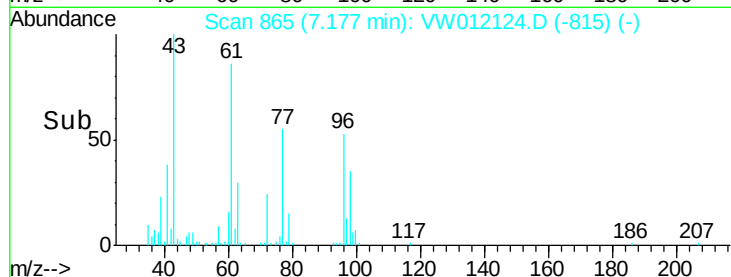
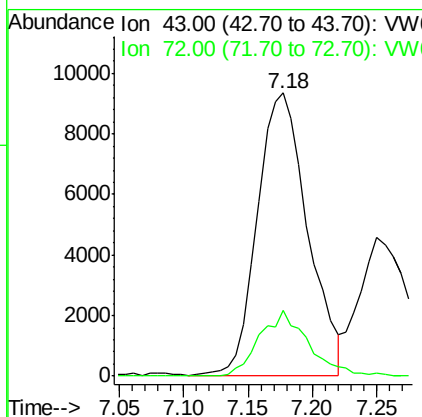
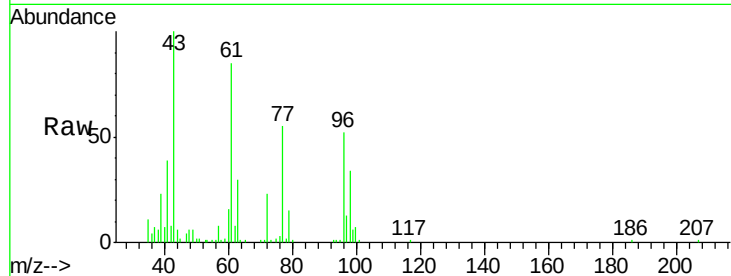
72 23.4 16.6 24.8

Manual Integrations

APPROVED

MMDadoda

8/26/2019 11:38:51 AM



#26

2,2-Dichloropropane

Concen: 5.524 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW012124.D

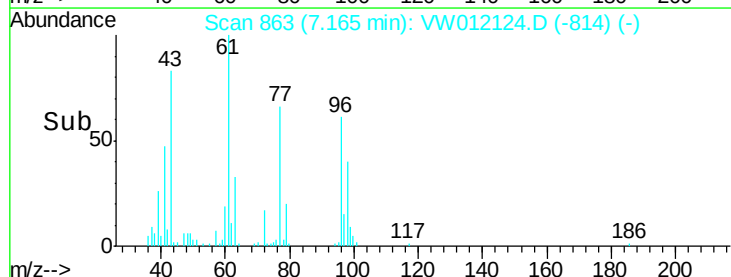
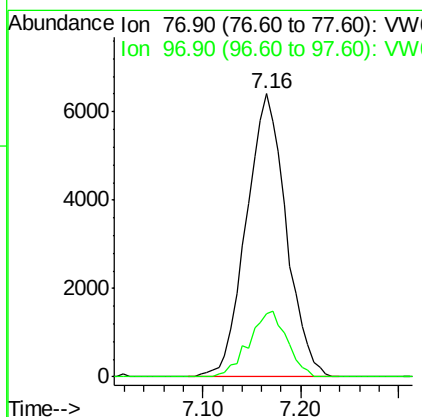
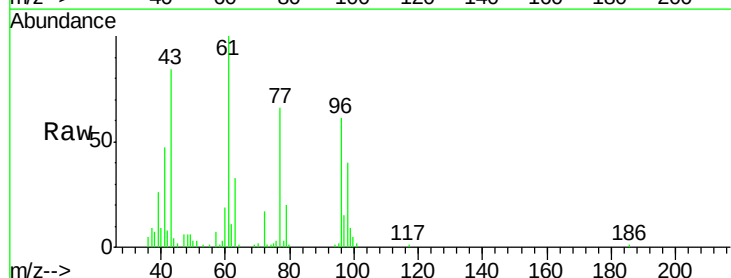
Acq: 23 Aug 2019 09:19

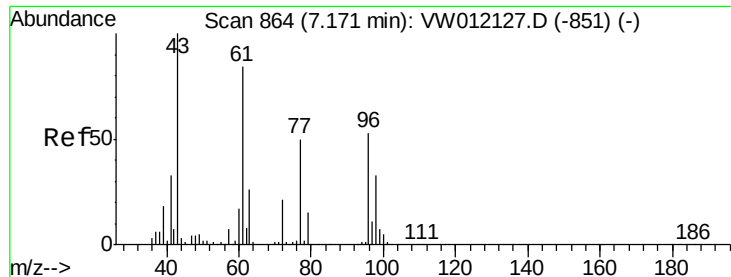
Tgt Ion: 77 Resp: 18199

Ion Ratio Lower Upper

77 100

97 22.1 11.1 33.1





#27

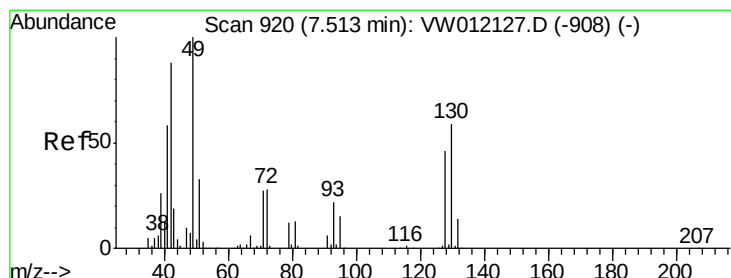
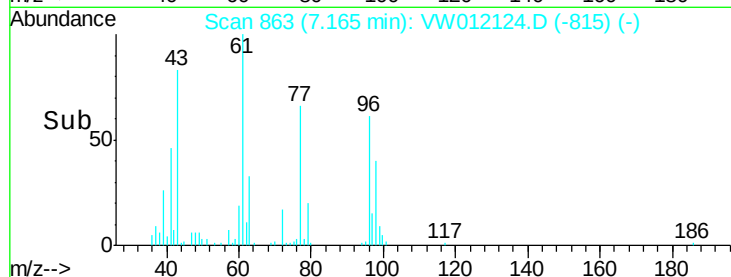
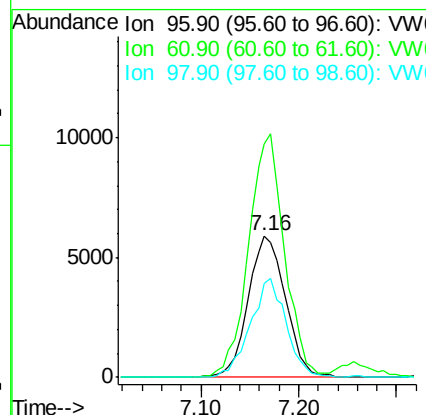
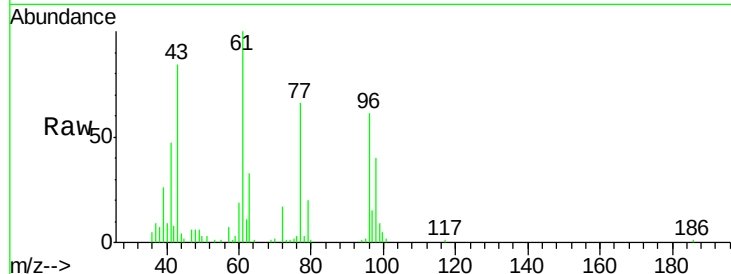
cis-1,2-Dichloroethene
Concen: 5.037 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	165.8	0.0	326.6	
98	67.0	0.0	127.4	

Manual Integrations
APPROVED

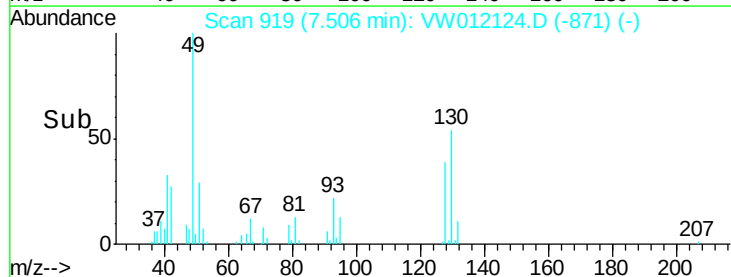
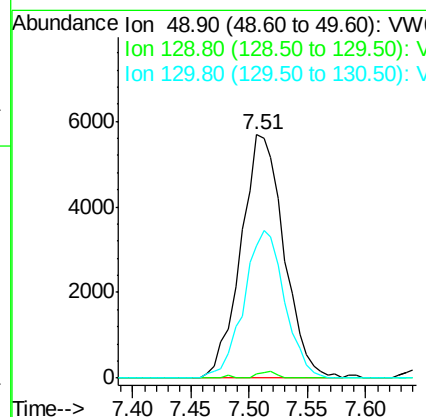
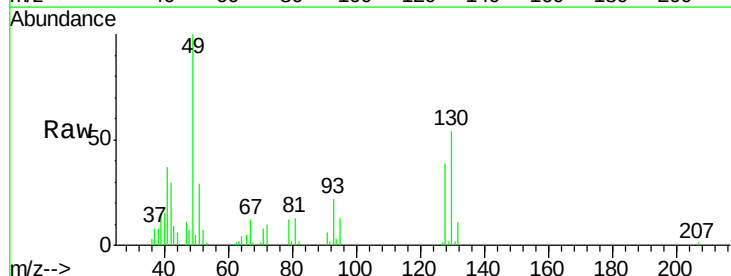
MMDadoda
8/26/2019 11:38:51 AM

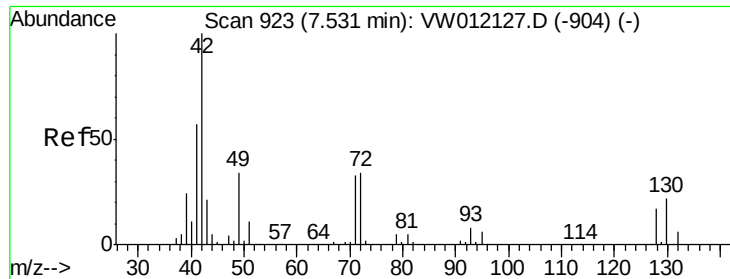


#28

Bromochloromethane
Concen: 5.746 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.2	0.0	1.4	
130	57.5	45.5	68.3	





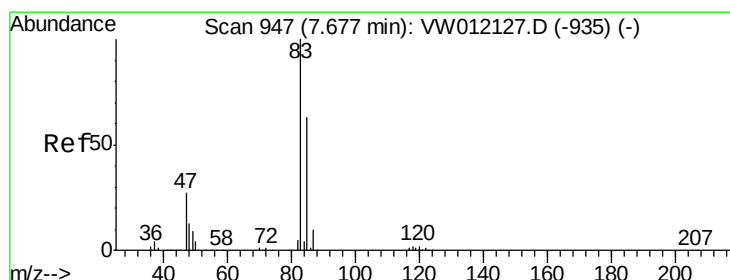
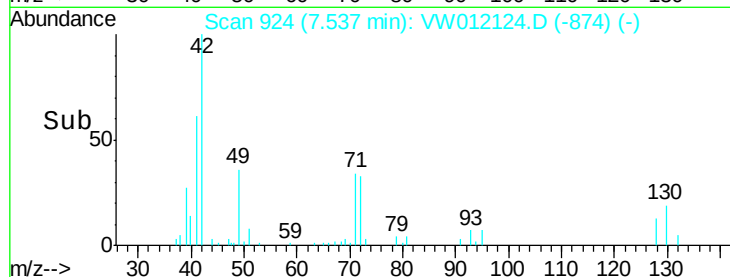
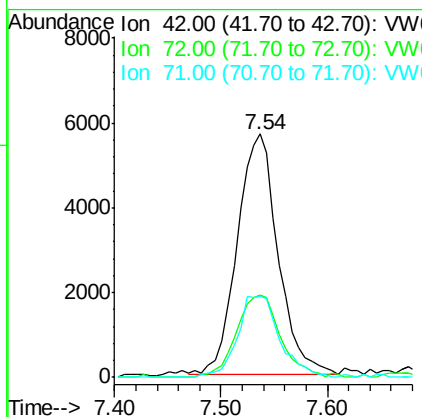
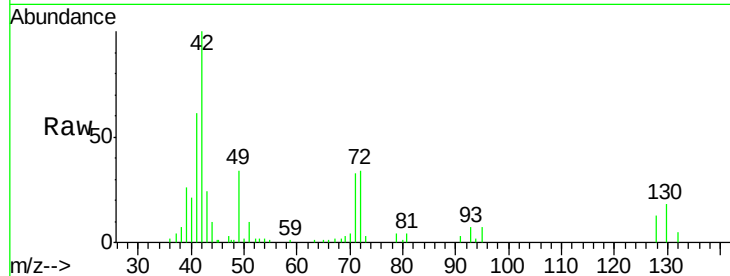
#29
Tetrahydrofuran
Concen: 22.799 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:	42	Resp:	15191
Ion Ratio		Lower	Upper
42	100		
72	36.8	27.3	40.9
71	35.2	25.5	38.3

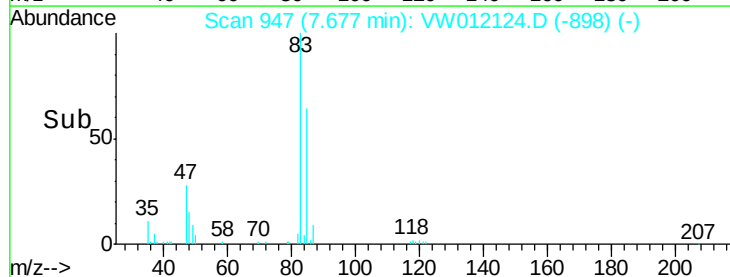
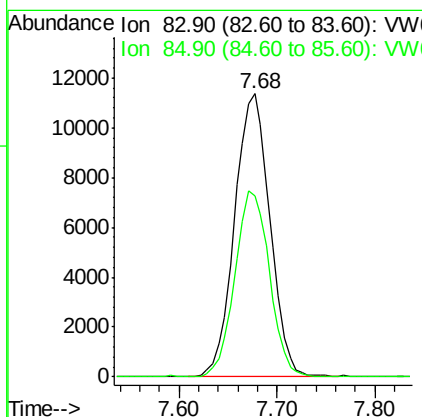
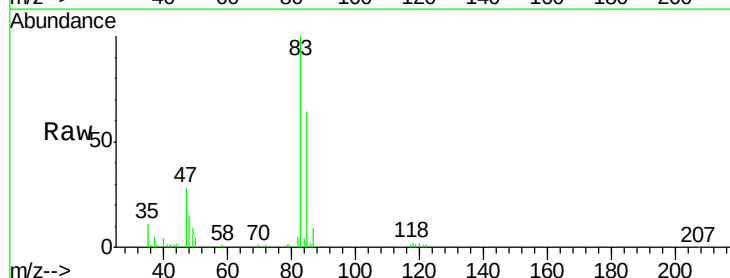
Manual Integrations
APPROVED

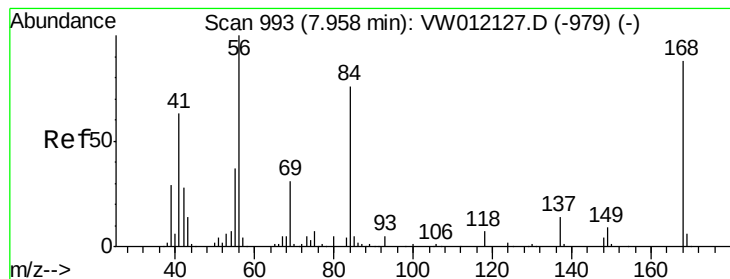
MMDadoda
8/26/2019 11:38:51 AM



#30
Chloroform
Concen: 5.343 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion:	83	Resp:	28454
Ion Ratio		Lower	Upper
83	100		
85	64.1	50.6	76.0





#31

Cyclohexane

Concen: 6.061 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 34903

Ion Ratio Lower Upper

56 100

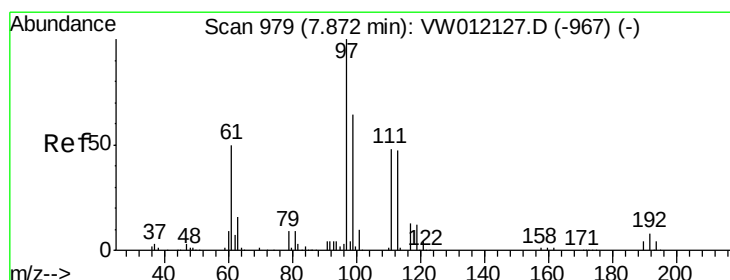
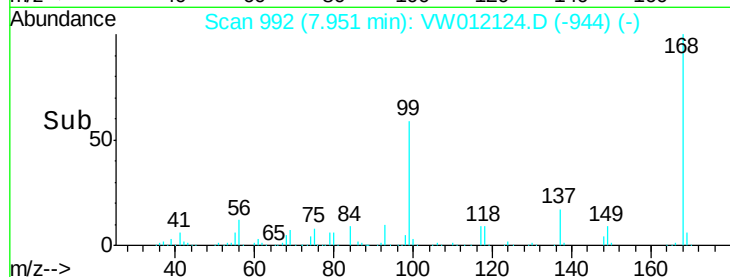
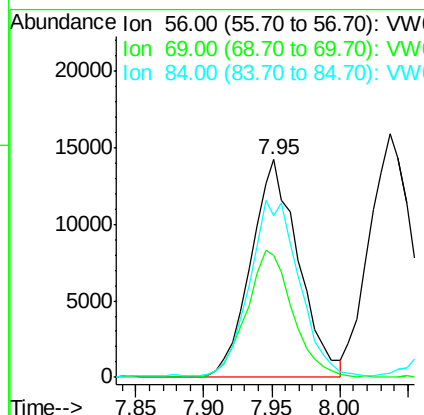
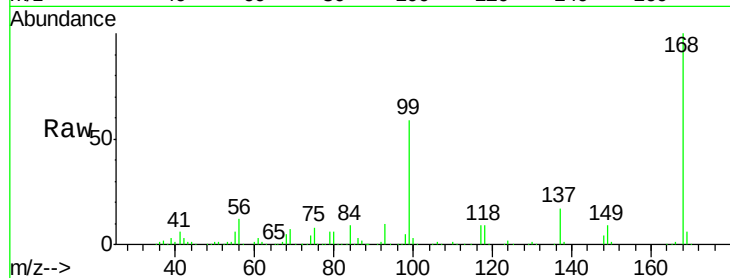
69 56.3 24.9 37.3#

84 73.6 60.6 90.8

Manual Integrations
APPROVED

MMDadoda

8/26/2019 11:38:51 AM



#32

1,1,1-Trichloroethane

Concen: 5.209 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

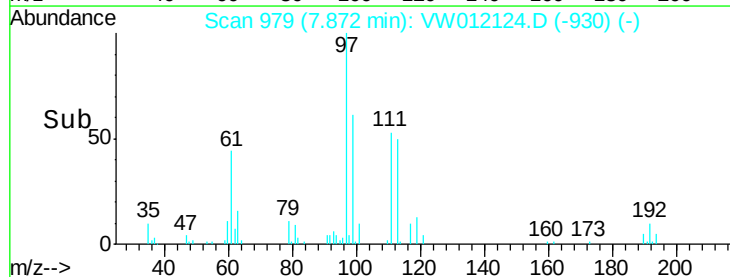
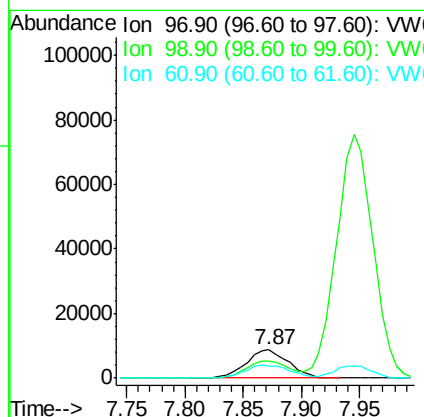
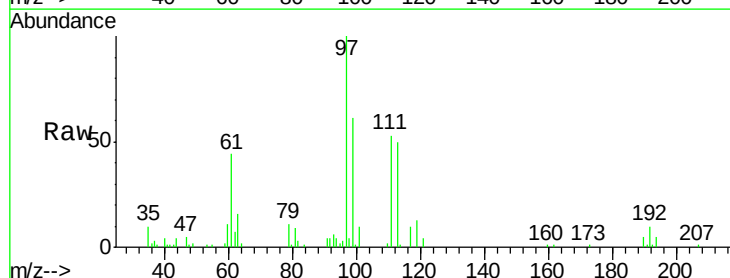
Tgt Ion: 97 Resp: 21944

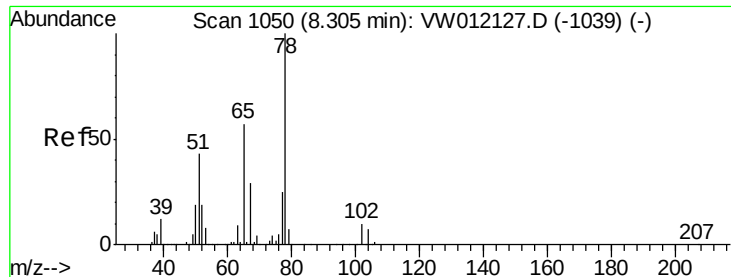
Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.0

61 50.2 39.5 59.3





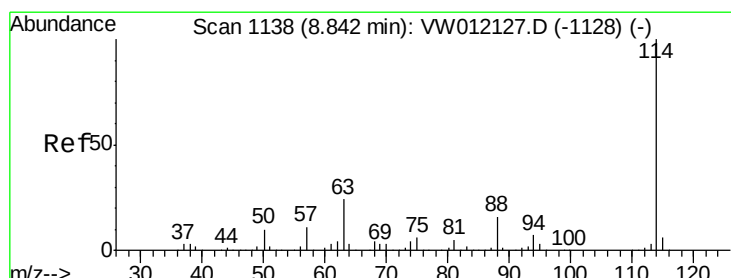
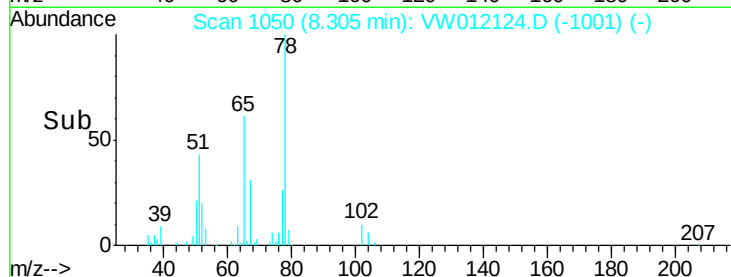
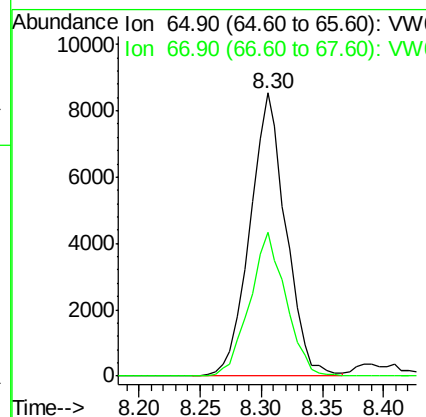
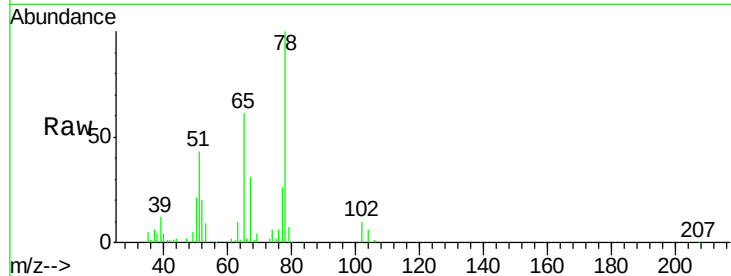
#33
 1,2-Dichloroethane-d4
 Concen: 5.470 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	102.6

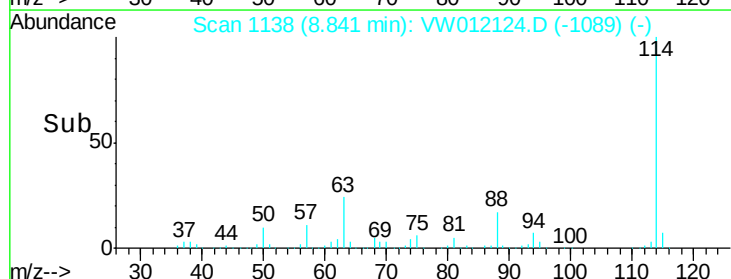
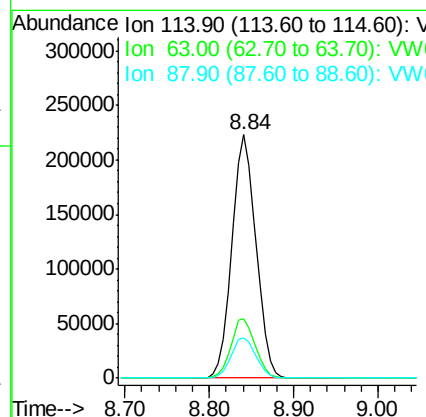
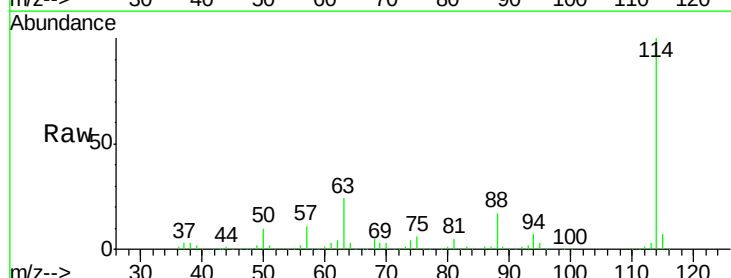
Manual Integrations
 APPROVED

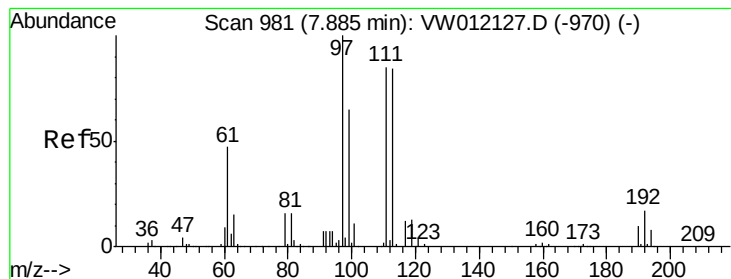
MMDadoda
 8/26/2019 11:38:51 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	48.6
88	16.5	0.0	32.2





#35

Dibromofluoromethane

Concen: 5.426 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

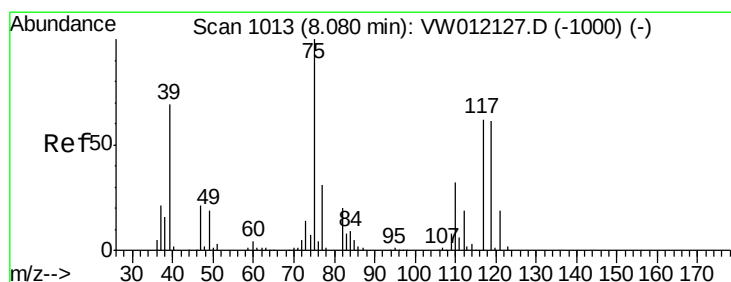
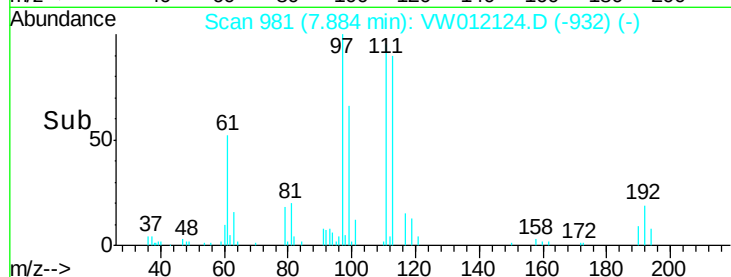
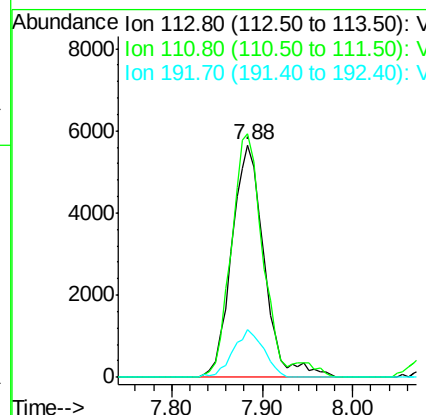
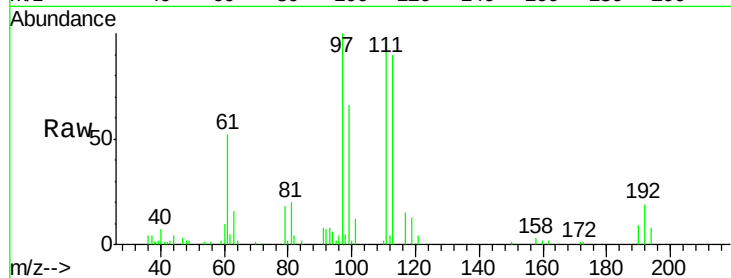
ClientSampleId :

VSTDIC005

Tot Ion:	113	Resp:	14052
Ion	Ratio	Lower	Upper
113	100		
111	99.6	82.7	124.1
192	19.6	16.2	24.2

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#36

1,1-Dichloropropene

Concen: 5.220 ug/l

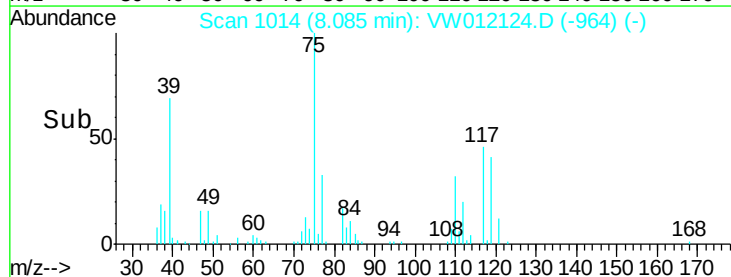
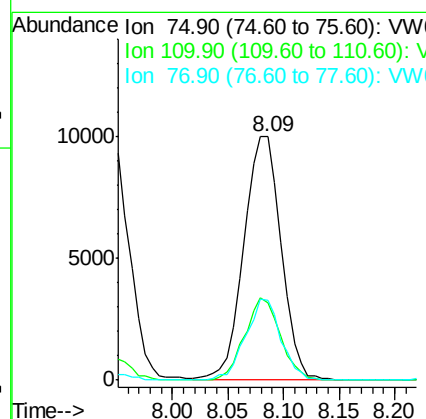
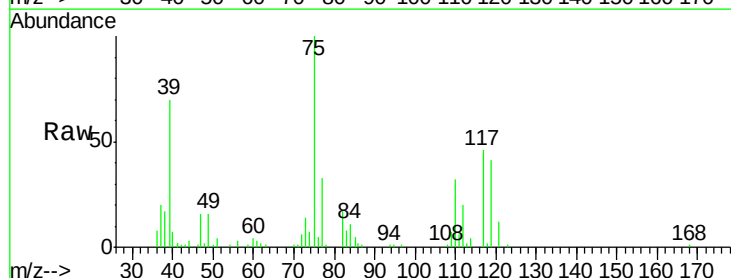
RT: 8.09 min Scan# 1014

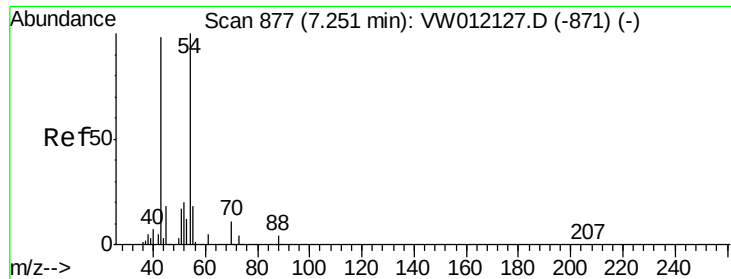
Delta R.T. 0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion:	75	Resp:	23405
Ion	Ratio	Lower	Upper
75	100		
110	32.2	15.6	46.8
77	31.3	24.6	36.8





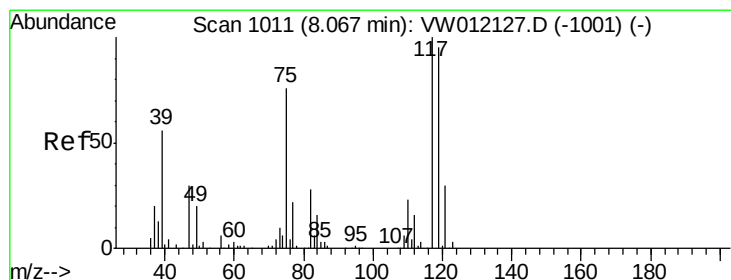
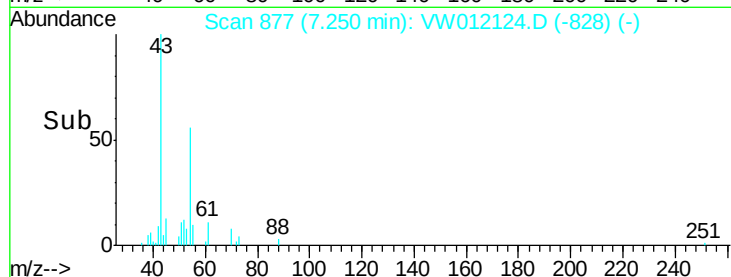
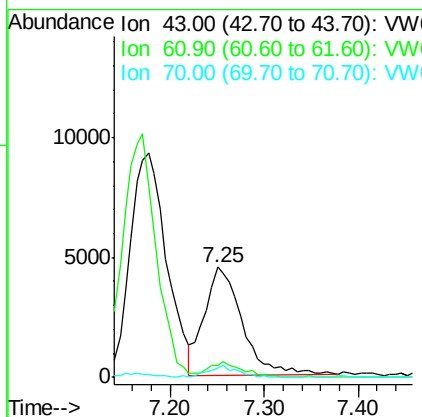
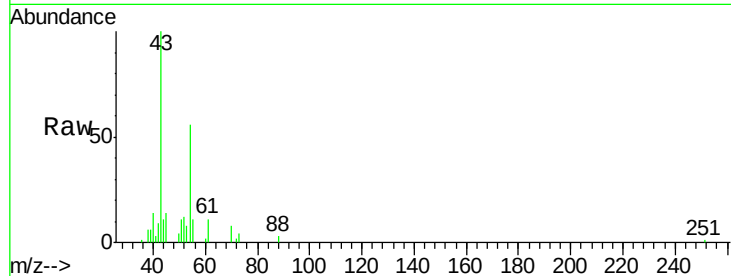
#37
Ethyl Acetate
Concen: 5.180 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampled :
VSTDIC005

Tot Ion	43	Resp	12726
Ion	Ratio	Lower	Upper
43	100		
61	12.6	9.2	13.8
70	8.2	6.9	10.3

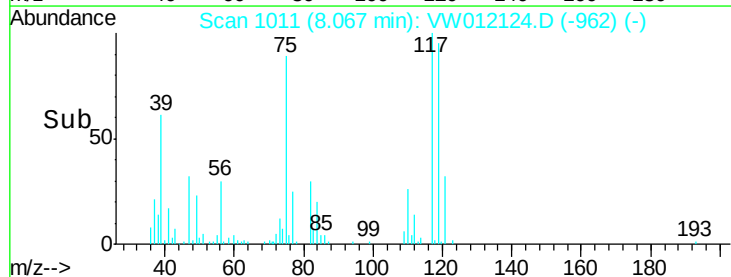
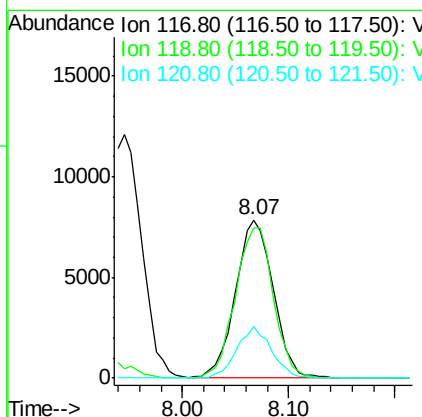
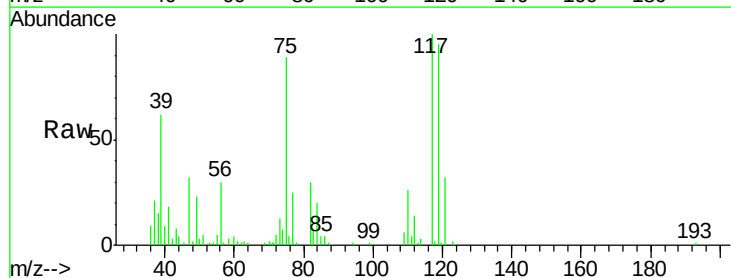
Manual Integrations
APPROVED

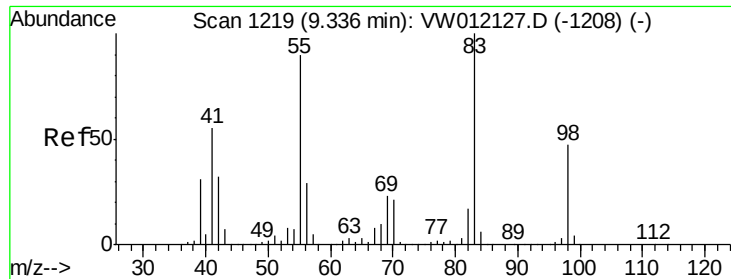
MMDadoda
8/26/2019 11:38:51 AM



#38
Carbon Tetrachloride
Concen: 5.068 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	117	Resp	19665
Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.2	114.2
121	32.2	23.8	35.8





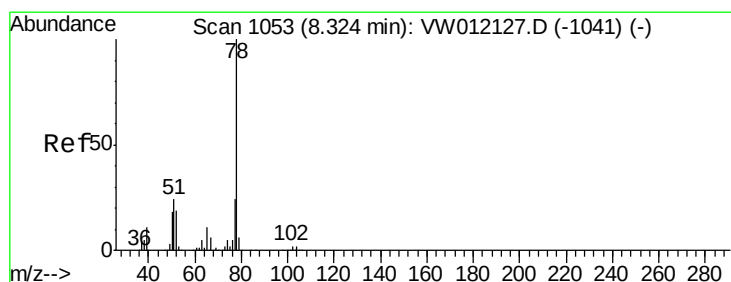
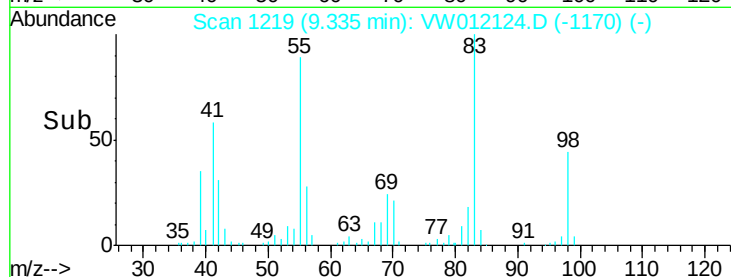
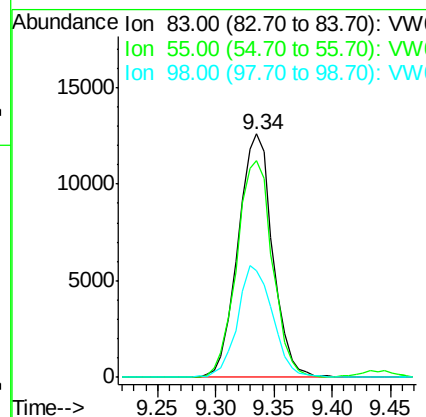
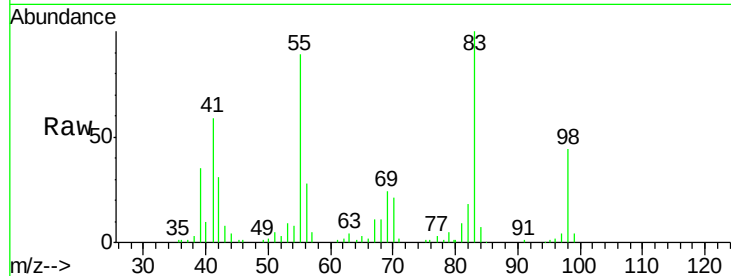
#39
Methylvlcyclohexane
Concen: 5.180 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	83.00	Resp	26089
Ion	Ratio	Lower	Upper
83	100		
55	88.8	71.8	107.8
98	44.0	37.8	56.8

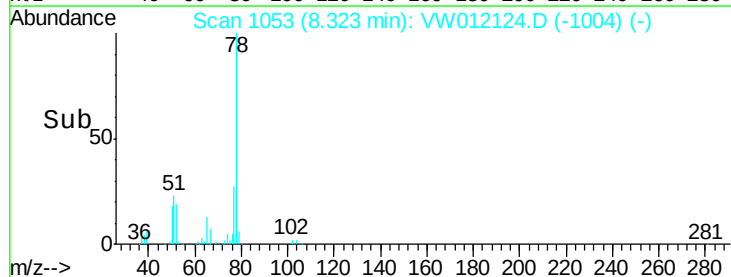
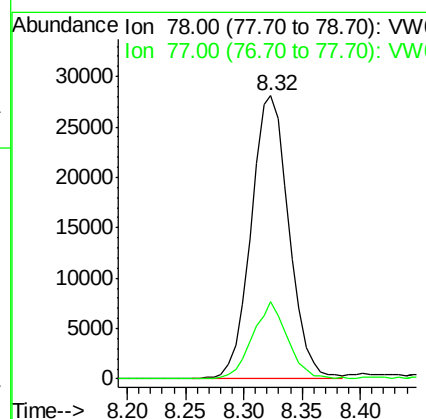
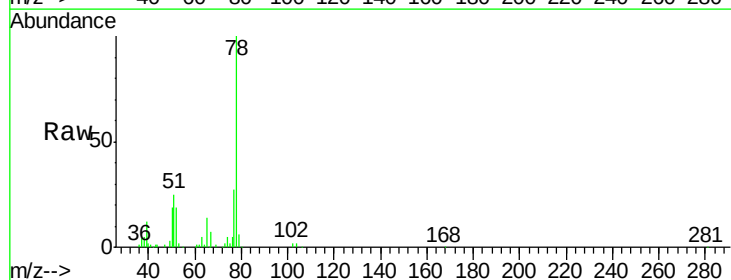
Manual Integrations
APPROVED

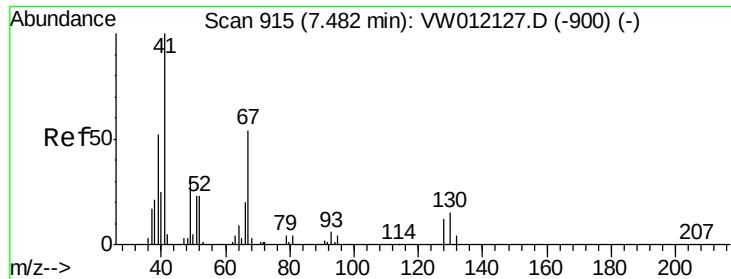
MMDadoda
8/26/2019 11:38:51 AM



#40
Benzene
Concen: 5.194 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	78.00	Resp	63587
Ion	Ratio	Lower	Upper
78	100		
77	27.2	19.5	29.3





#41

Methacrylonitrile

Concen: 4.215 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

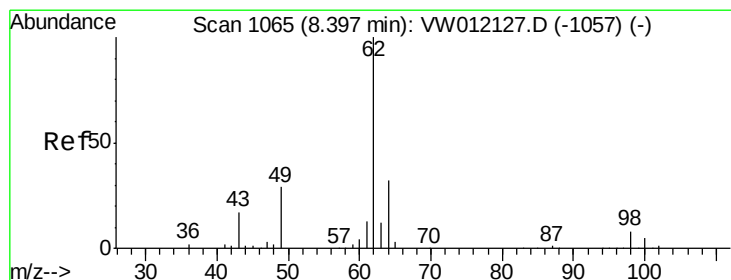
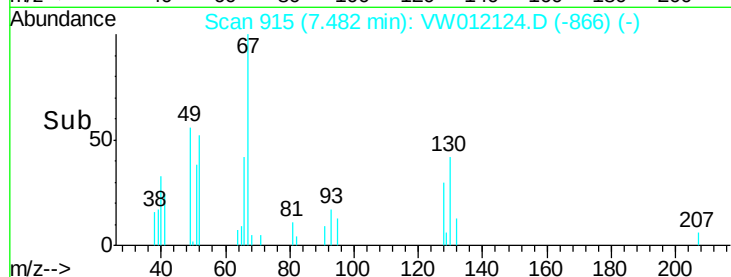
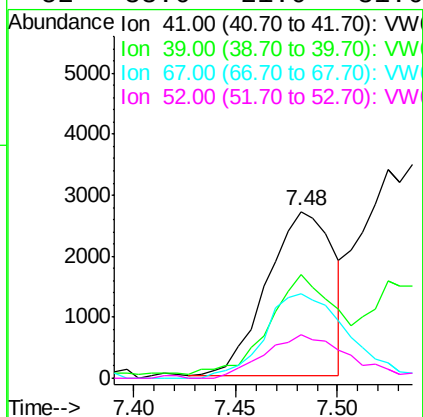
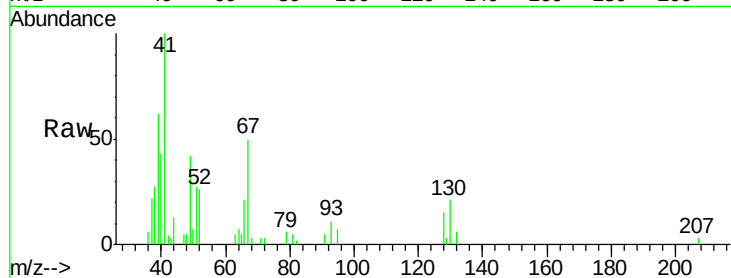
ClientSampleId :

VSTDIC005

Tot Ion	41	Resp:	6087
Ion	Ratio	Lower	Upper
41	100		
39	61.7	45.8	68.8
67	64.5	46.2	69.4
52	33.6	21.0	31.6#

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#42

1,2-Dichloroethane

Concen: 5.112 ug/l

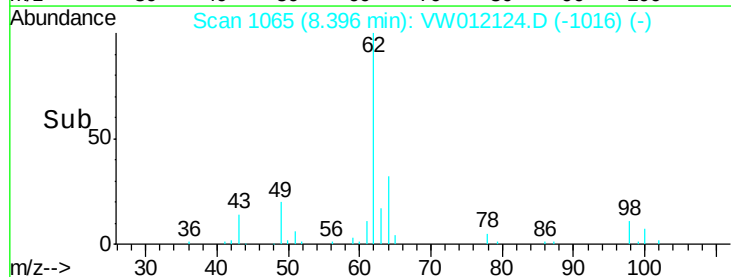
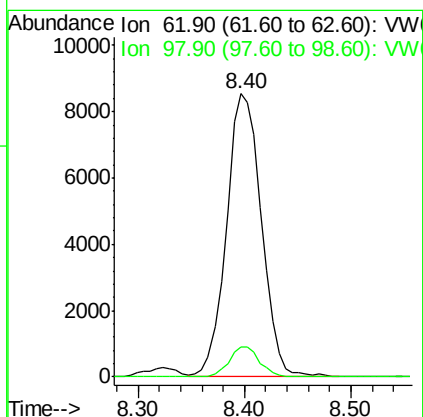
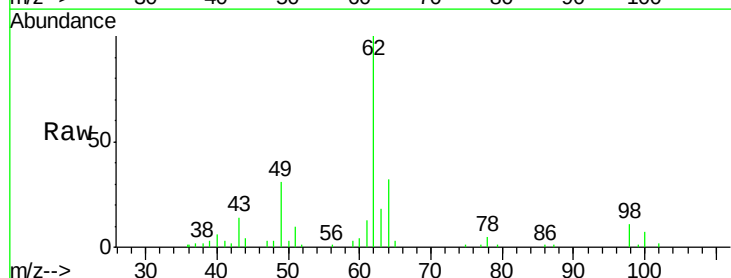
RT: 8.40 min Scan# 1065

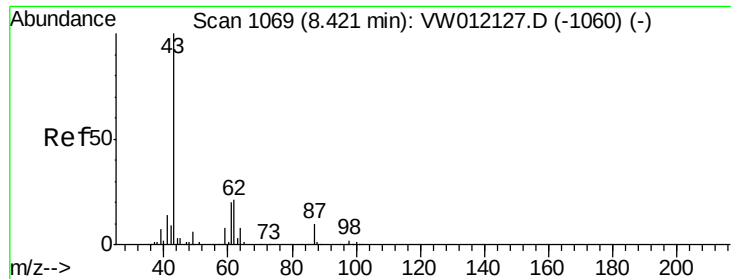
Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion	62	Resp:	19614
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	16.6





#43

Isopropyl Acetate

Concen: 4.831 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

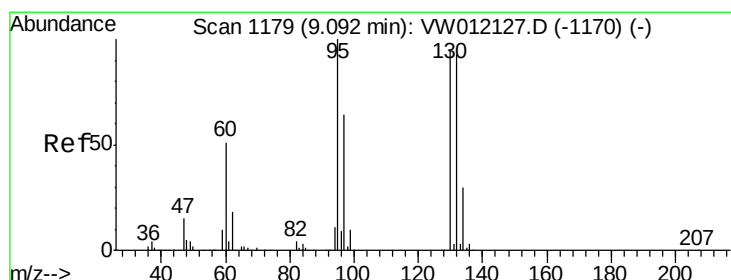
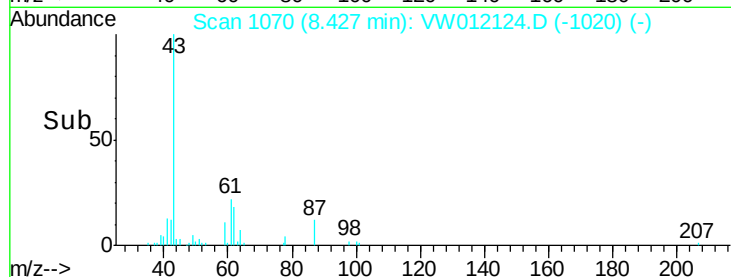
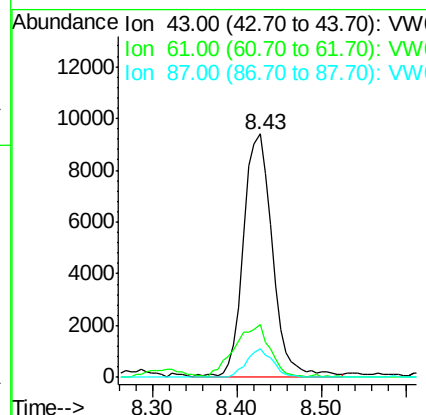
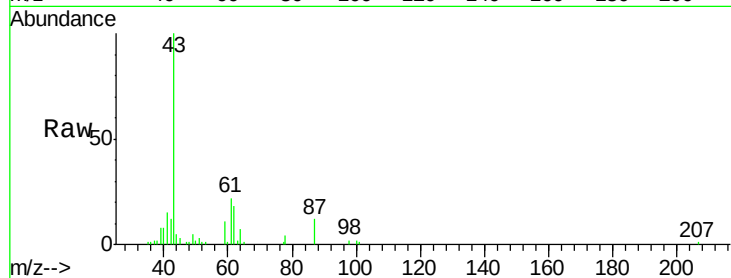
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	21985
Ion	Ratio	Lower	Upper
43	100		
61	26.3	21.1	31.7
87	10.3	8.2	12.2

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#44

Trichloroethene

Concen: 5.194 ug/l

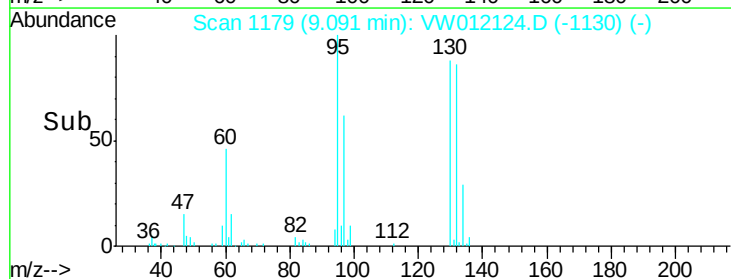
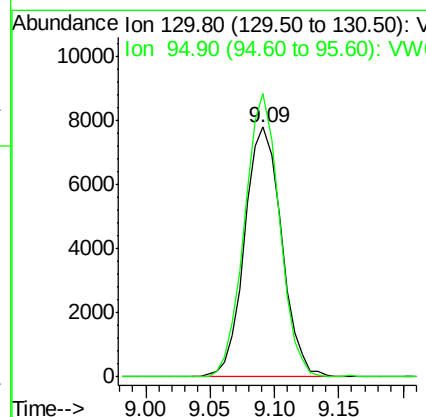
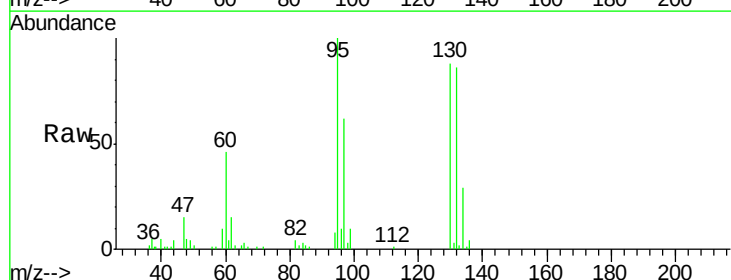
RT: 9.09 min Scan# 1179

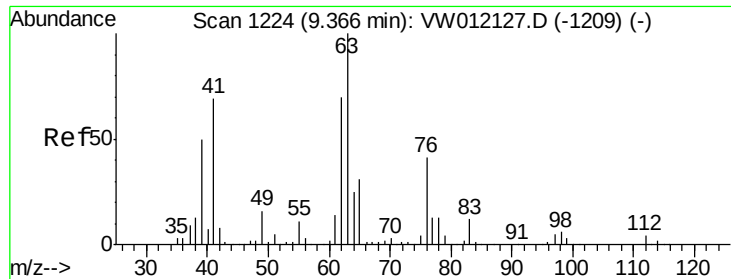
Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion:	130	Resp:	15459
Ion	Ratio	Lower	Upper
130	100		
95	113.4	0.0	210.6





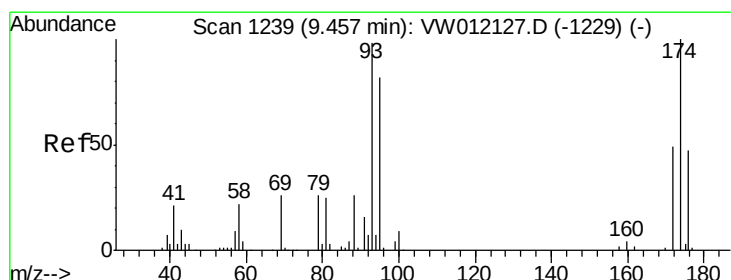
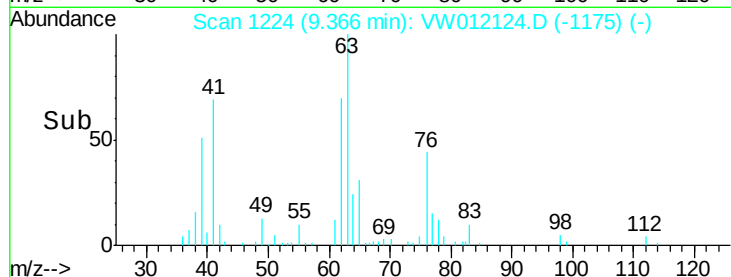
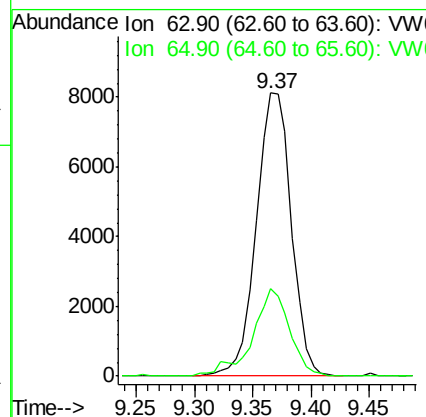
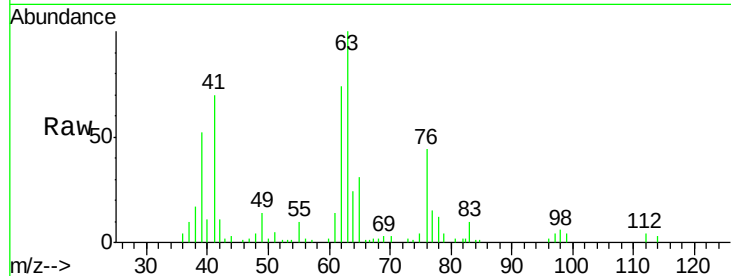
#45
 1,2-Dichloropropane
 Concen: 5.125 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 16885
 Ion Ratio Lower Upper
 63 100
 65 31.1 25.0 37.4

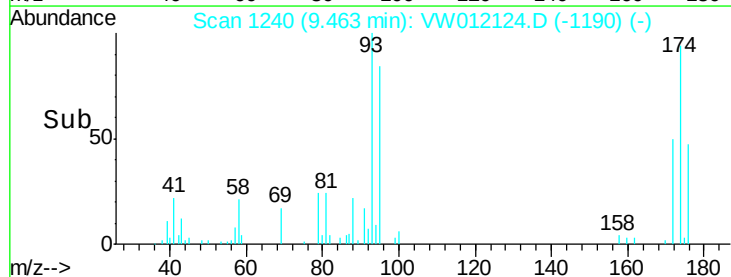
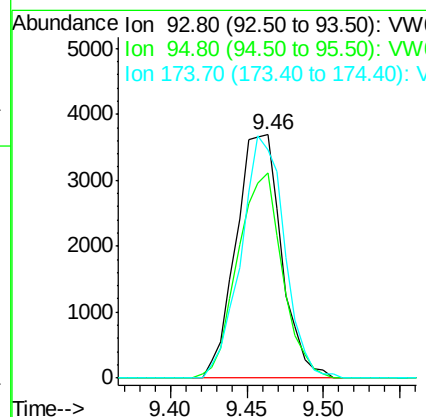
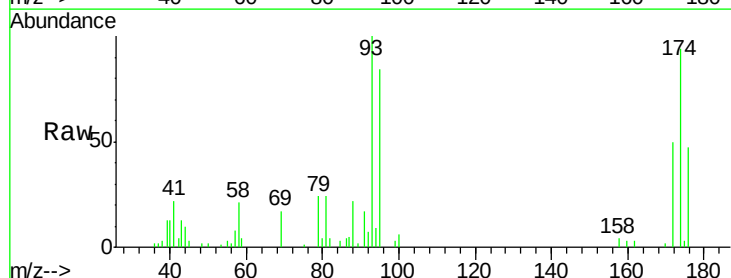
Manual Integrations
 APPROVED

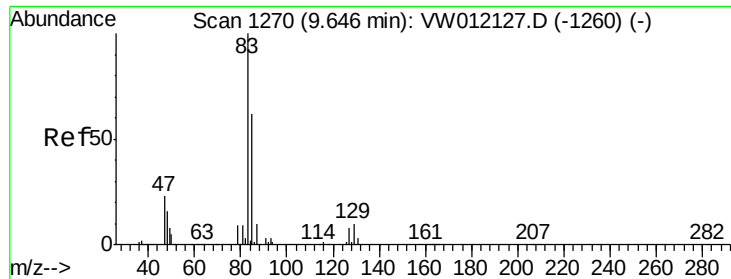
MMDadoda
 8/26/2019 11:38:51 AM



#46
 Dibromomethane
 Concen: 5.204 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. 0.01 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion: 93 Resp: 7629
 Ion Ratio Lower Upper
 93 100
 95 82.9 67.2 100.8
 174 95.0 79.0 118.6





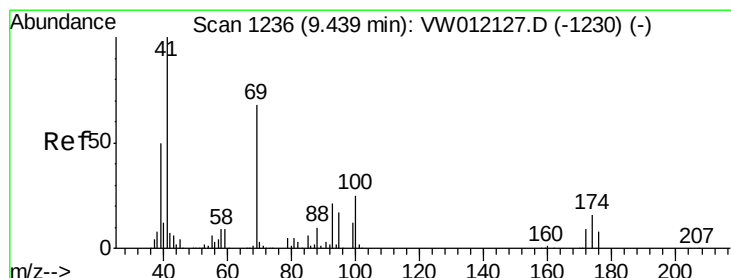
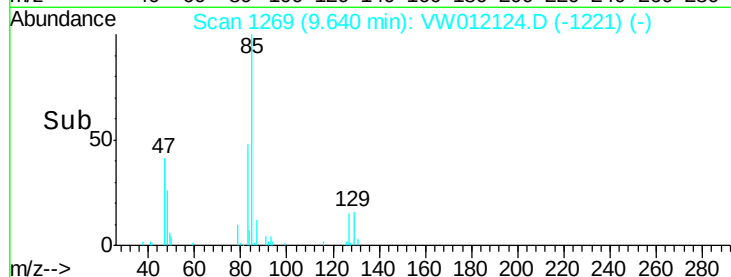
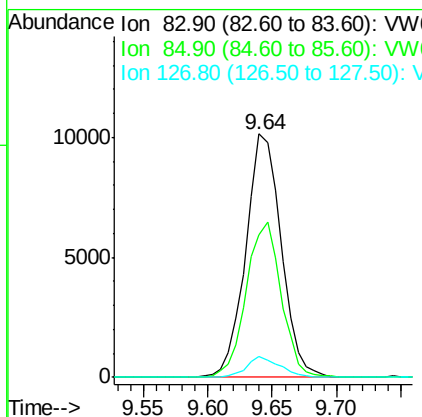
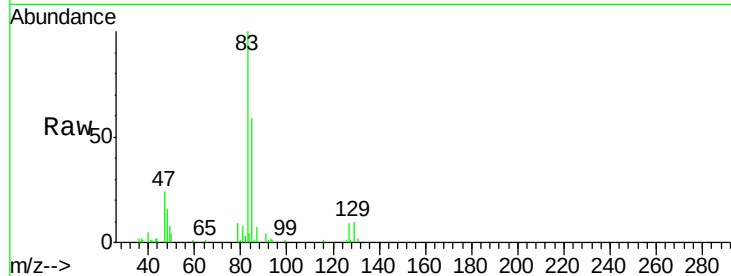
#47
Bromodichloromethane
Concen: 4.946 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:	83	Resp:	19295
Ion	Ratio	Lower	Upper
83	100		
85	58.6	49.4	74.2
127	8.6	6.1	9.1

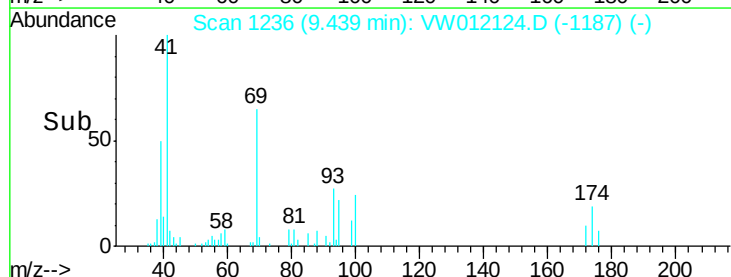
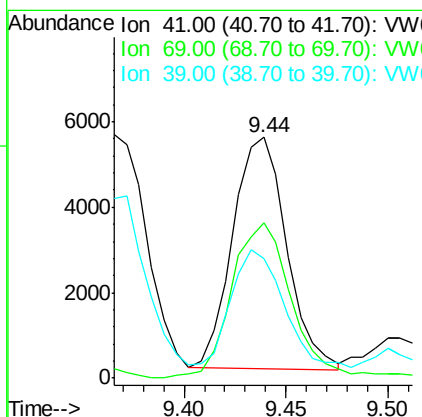
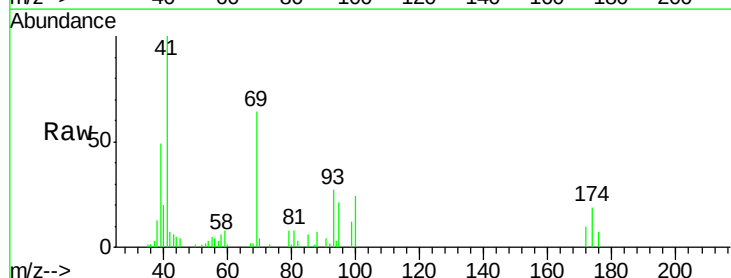
Manual Integrations
APPROVED

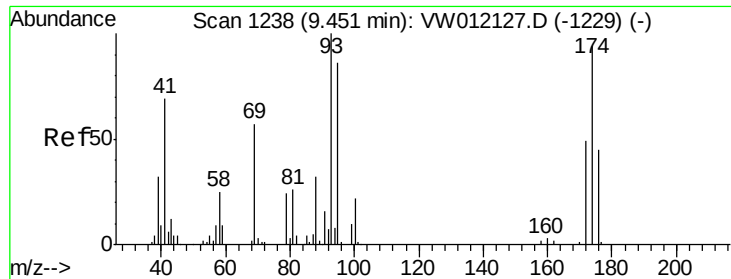
MMDadoda
8/26/2019 11:38:51 AM



#48
Methyl methacrylate
Concen: 4.580 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion:	41	Resp:	9921
Ion	Ratio	Lower	Upper
41	100		
69	75.5	56.7	85.1
39	51.1	42.0	63.0





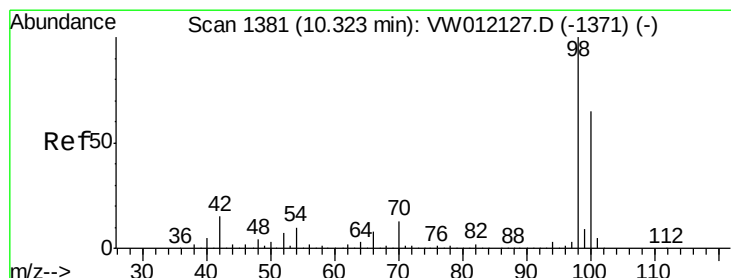
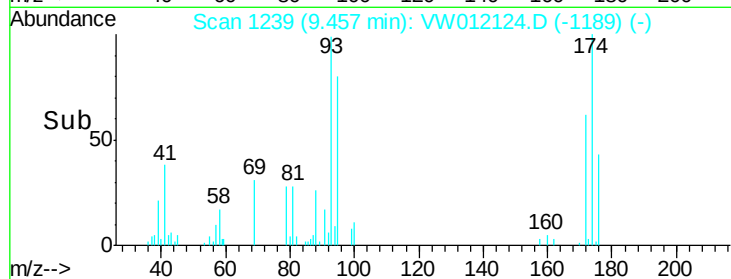
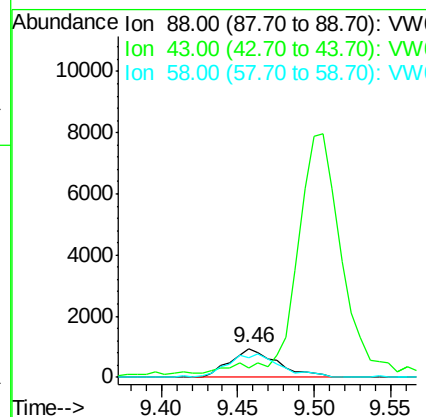
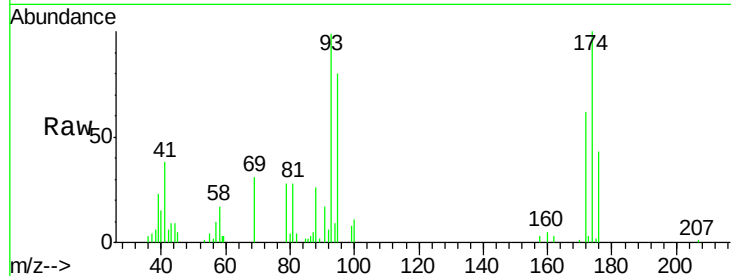
#49
 1,4-Dioxane
 Concen: 89.832 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.01 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.5	32.9	49.3#
58	91.4	71.0	106.4

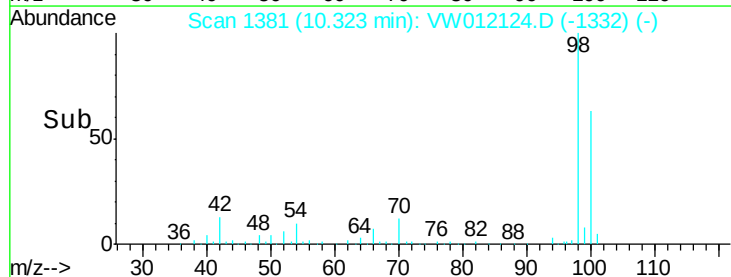
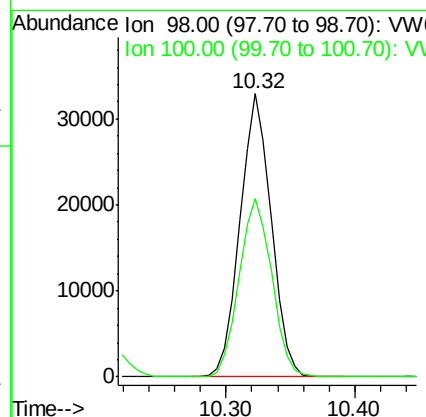
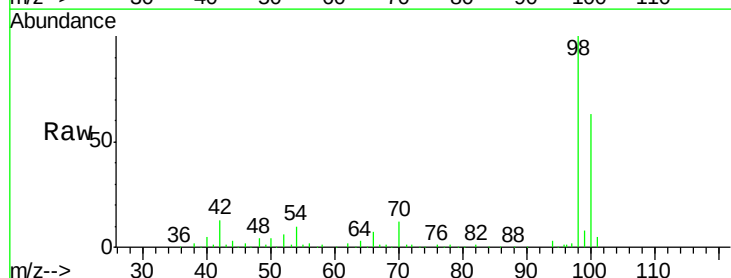
Manual Integrations
 APPROVED

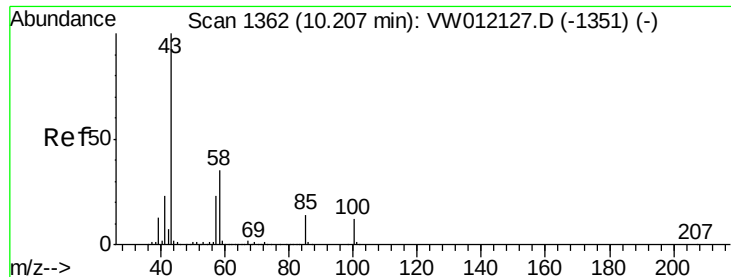
MMDadoda
 8/26/2019 11:38:51 AM



#50
 Toluene-d8
 Concen: 5.262 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.4	78.6





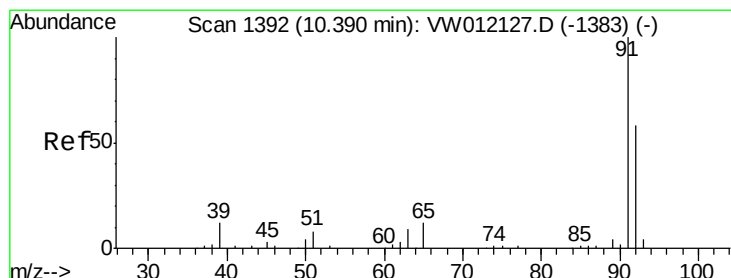
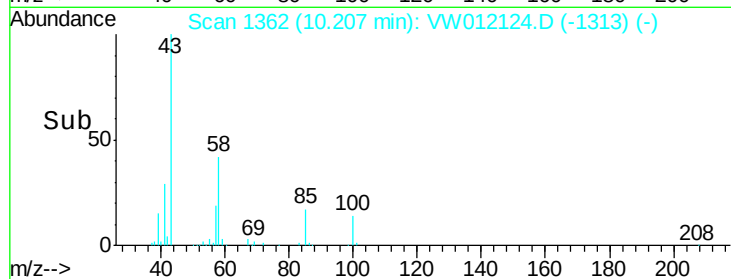
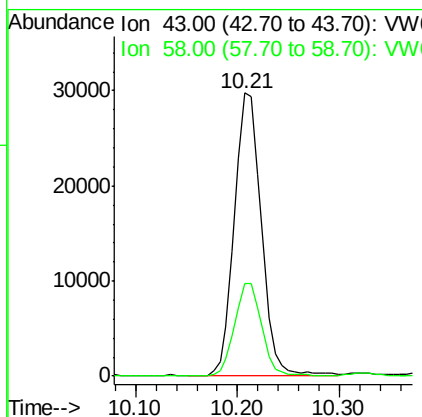
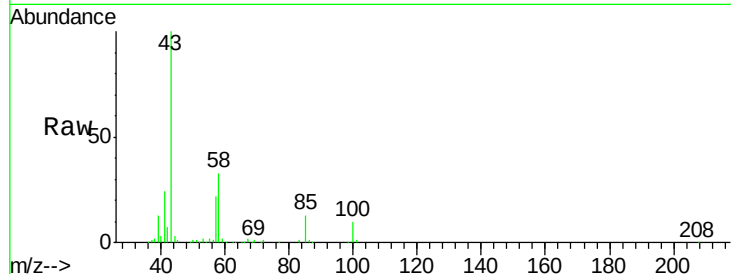
#51
 4-Methyl-2-Pentanone
 Concen: 23.654 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	43	Resp	54751
Ion Ratio	100	Lower	Upper
58	32.9	28.2	42.2

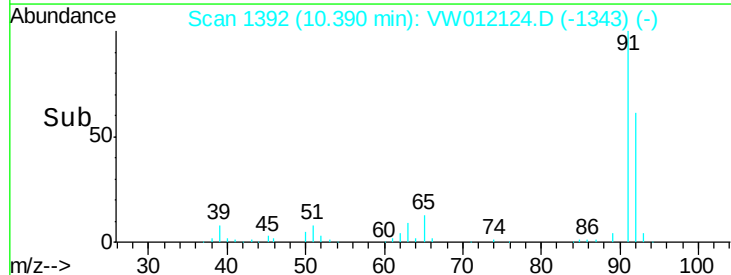
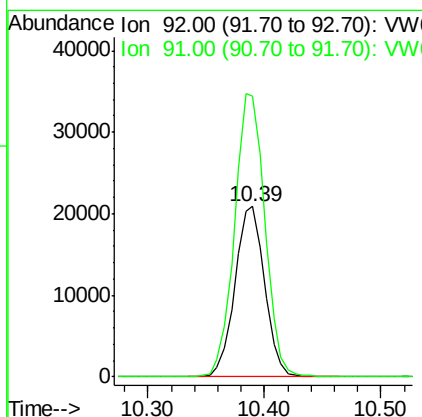
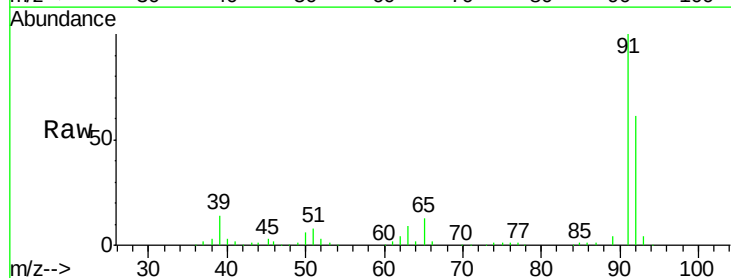
Manual Integrations
 APPROVED

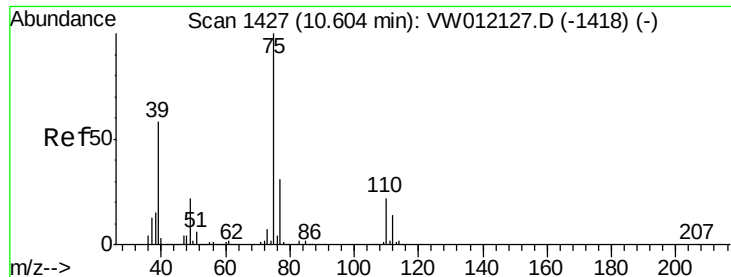
MMDadoda
 8/26/2019 11:38:51 AM



#52
 Toluene
 Concen: 5.065 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	92	Resp	37249
Ion Ratio	100	Lower	Upper
91	169.1	136.6	204.8





#53

t-1,3-Dichloropropene

Concen: 4.583 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 18213

Ion Ratio Lower Upper

75 100

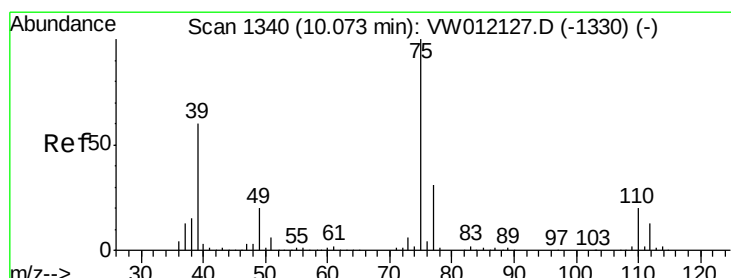
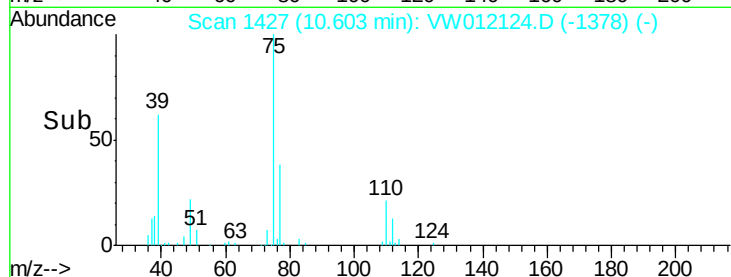
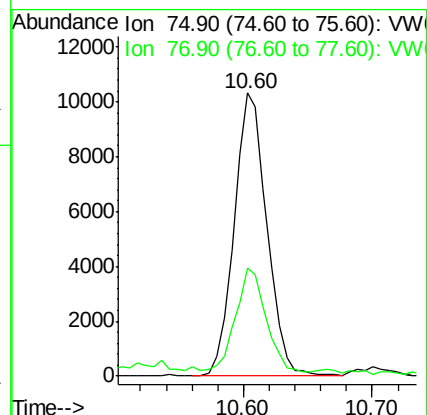
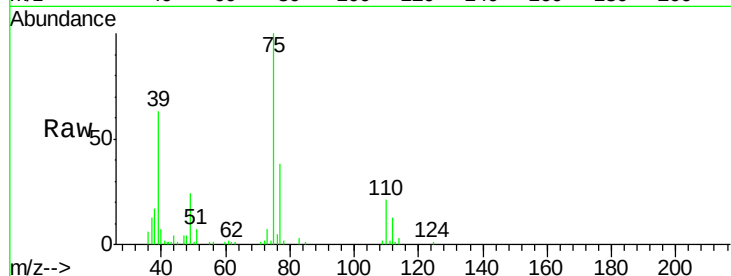
77 36.9 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

8/26/2019 11:38:51 AM



#54

cis-1,3-Dichloropropene

Concen: 4.664 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

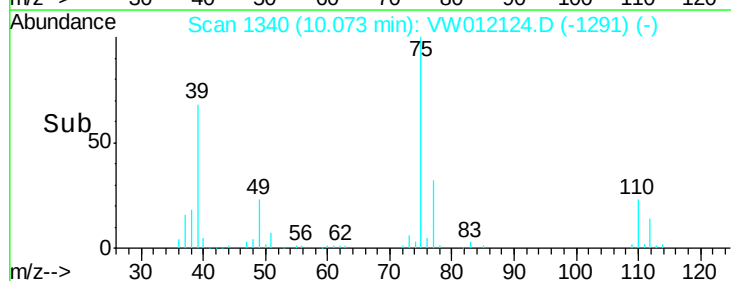
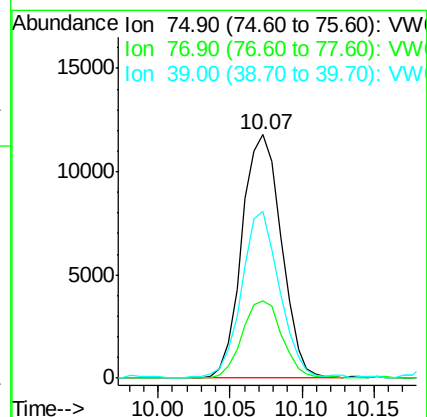
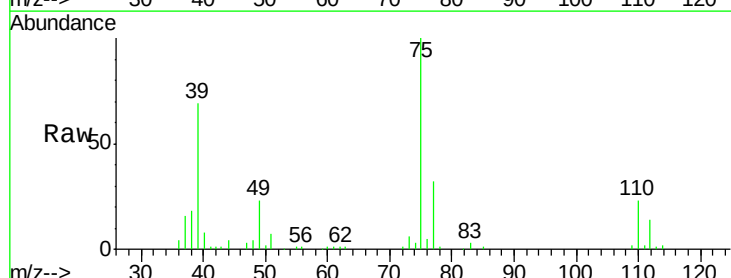
Tgt Ion: 75 Resp: 22382

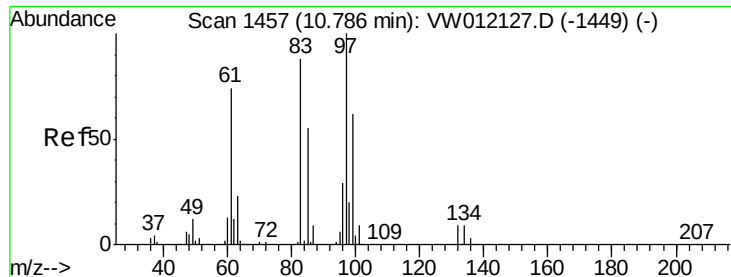
Ion Ratio Lower Upper

75 100

77 31.8 25.1 37.7

39 68.0 48.3 72.5





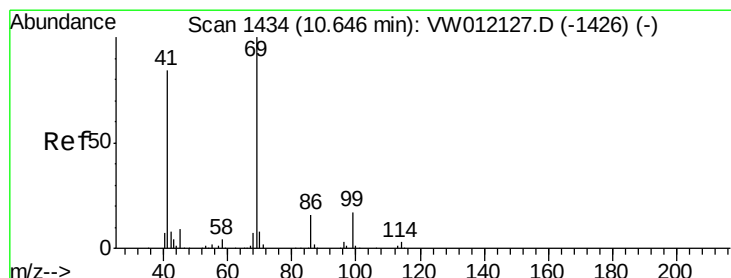
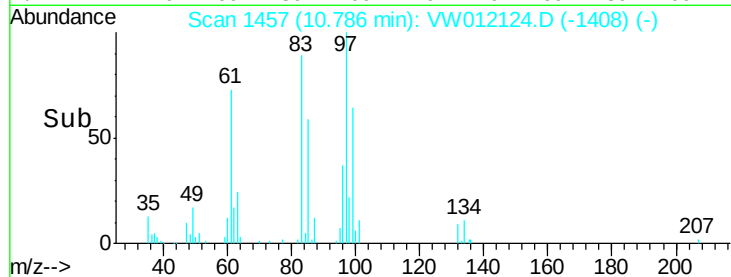
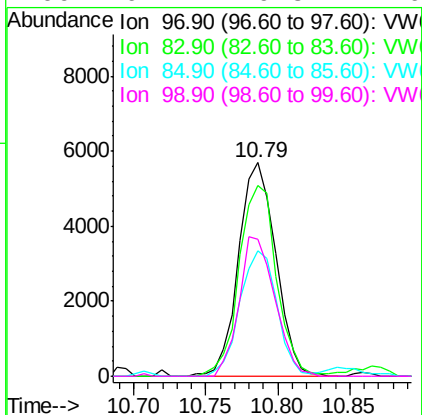
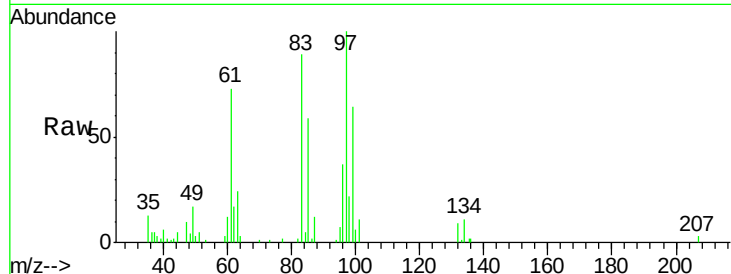
#55
 1,1,2-Trichloroethane
 Concen: 4.934 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	10234
Ion	Ratio	Lower	Upper
97	100		
83	89.2	70.8	106.2
85	58.8	43.8	65.8
99	64.2	49.8	74.6

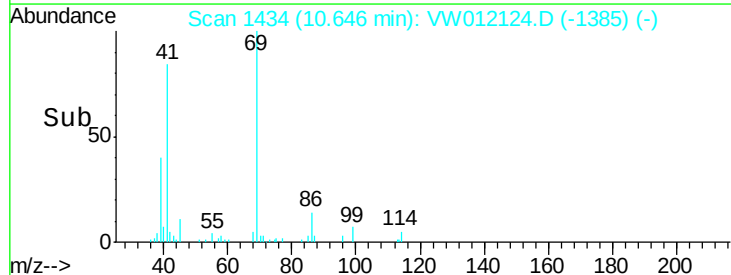
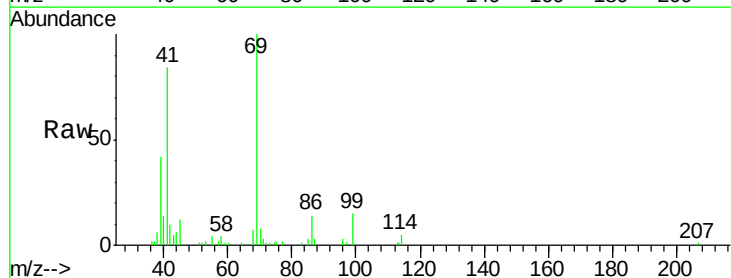
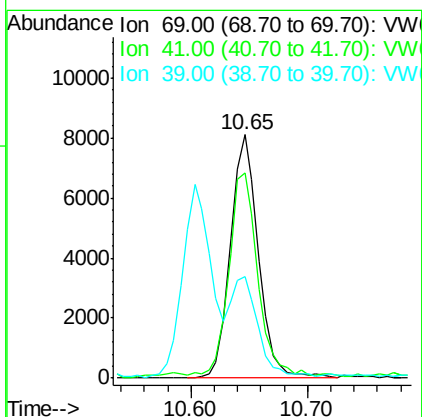
Manual Integrations
 APPROVED

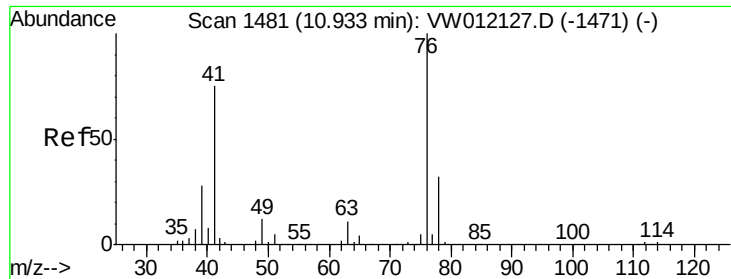
MMDadoda
 8/26/2019 11:38:51 AM



#56
 Ethyl methacrylate
 Concen: 4.489 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion:	69	Resp:	13551
Ion	Ratio	Lower	Upper
69	100		
41	85.8	66.5	99.7
39	40.1	31.0	46.4





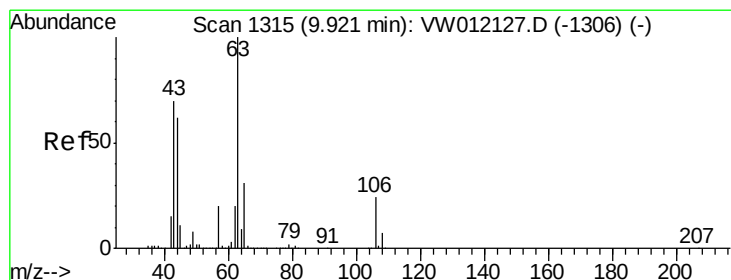
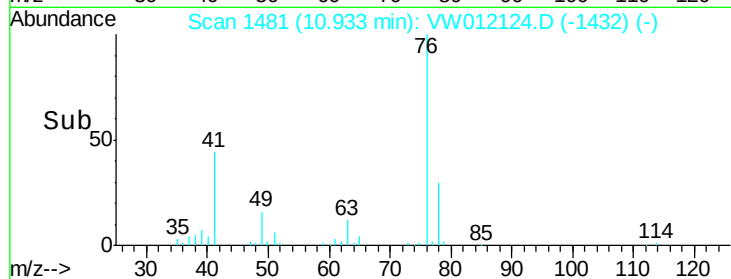
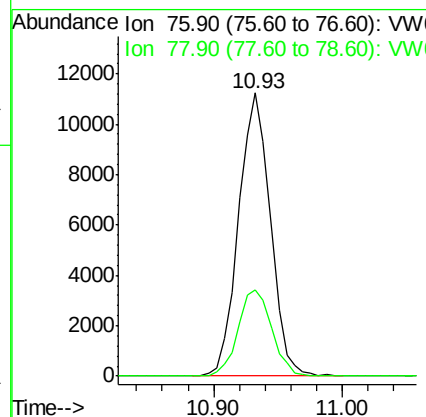
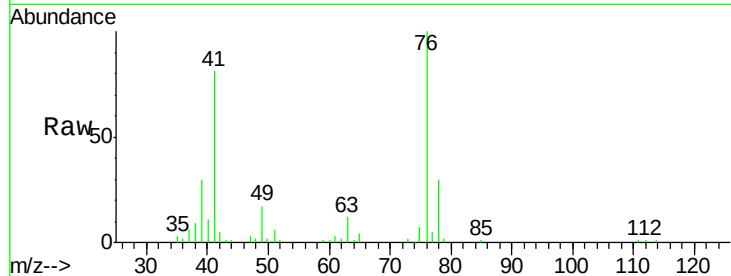
#57
 1,3-Dichloropropane
 Concen: 4.898 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.8

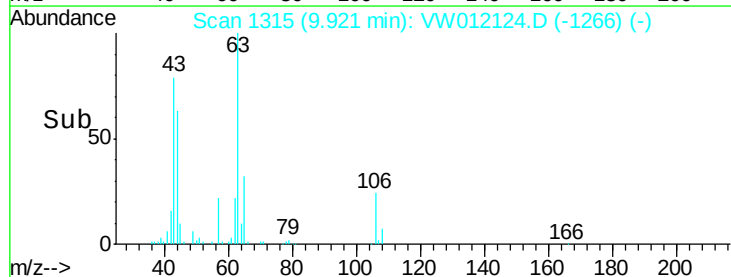
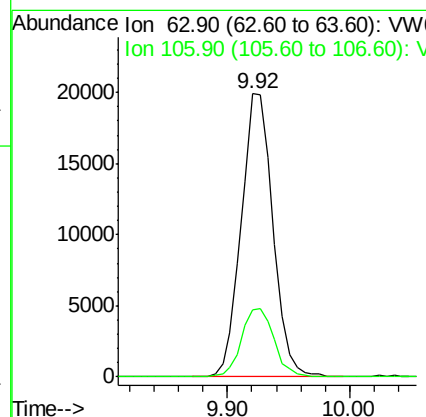
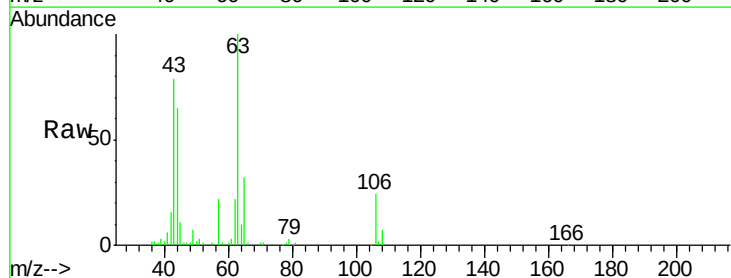
Manual Integrations
 APPROVED

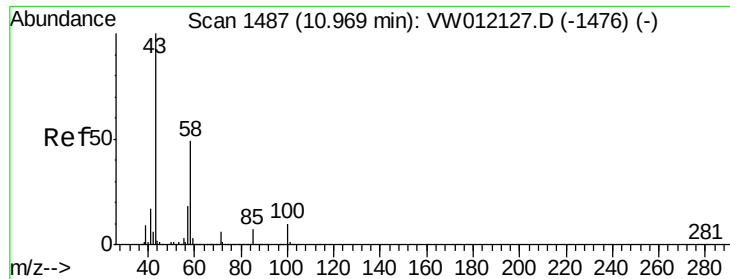
MMDadoda
 8/26/2019 11:38:51 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 23.131 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.8	19.8	29.8





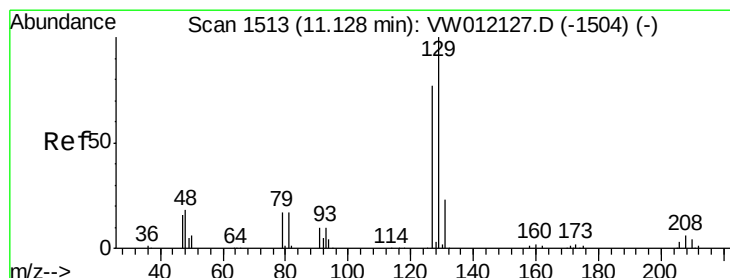
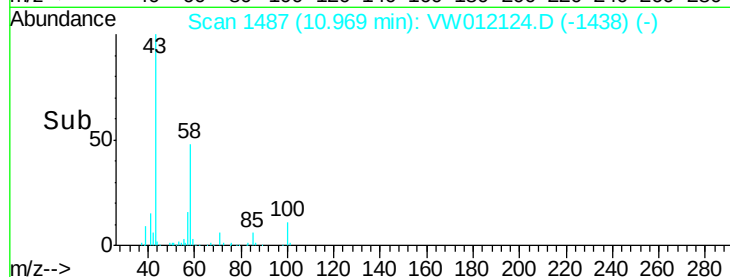
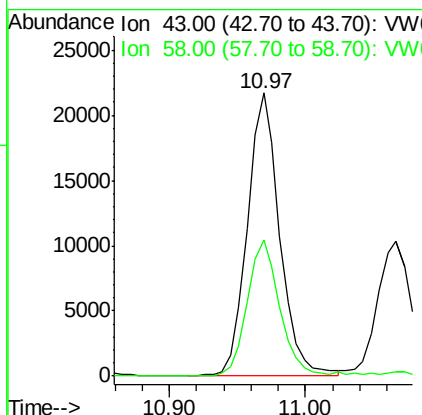
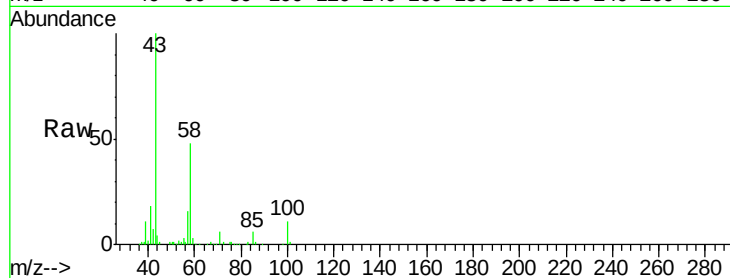
#59
2-Hexanone
Concen: 22.127 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	43	Resp	36239
Ion Ratio	100	Lower	Upper
43	100		
58	48.0	24.3	72.9

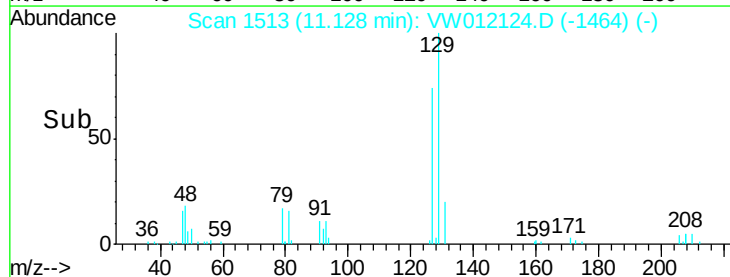
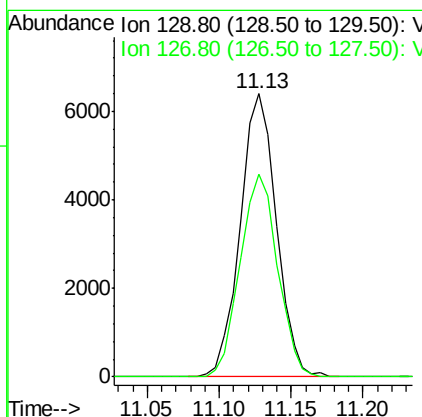
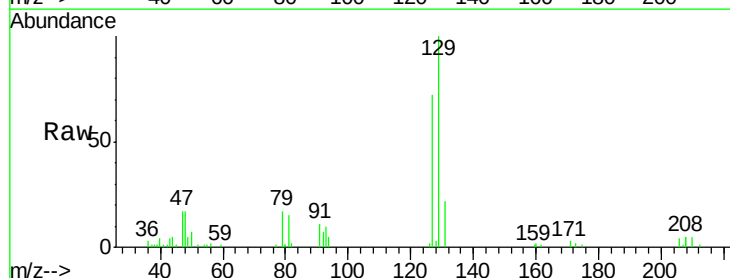
Manual Integrations
APPROVED

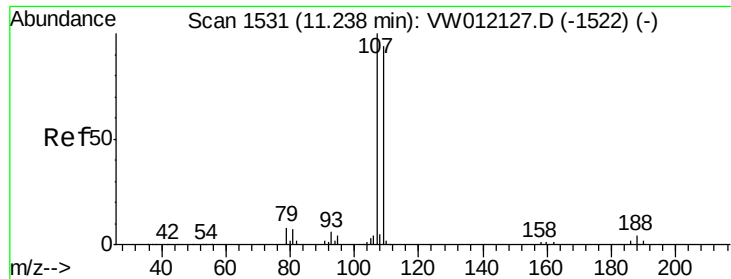
MMDadoda
8/26/2019 11:38:51 AM



#60
Dibromochloromethane
Concen: 4.814 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	129	Resp	11122
Ion Ratio	100	Lower	Upper
129	100		
127	74.3	38.6	115.8





#61

1,2-Dibromoethane

Concen: 4.896 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 9460

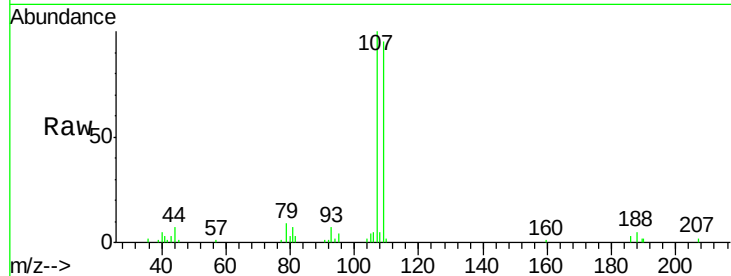
Ion Ratio Lower Upper

107 100

109 94.0 75.4 113.2

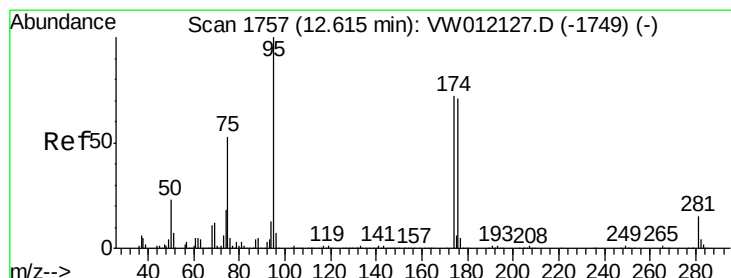
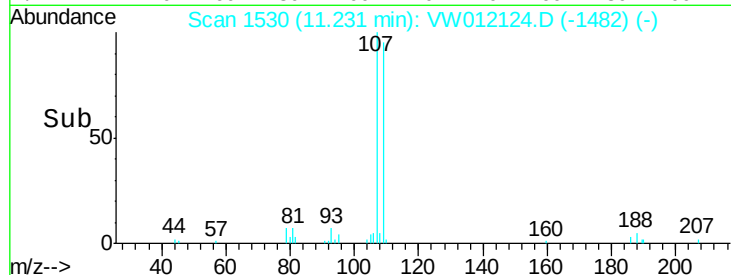
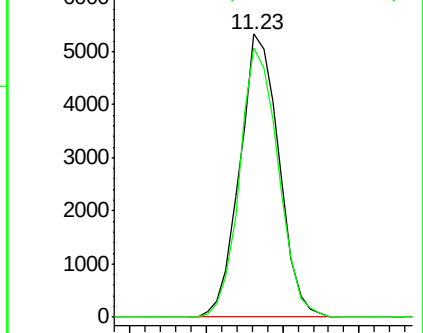
Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 5.512 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

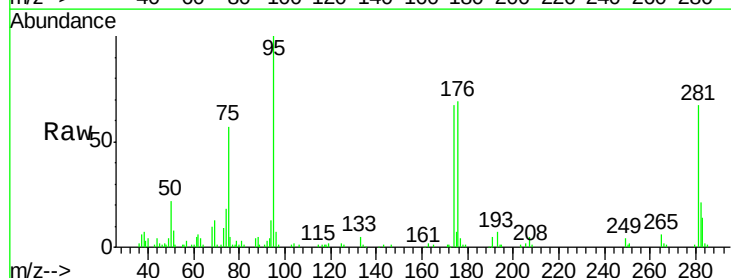
Tgt Ion: 95 Resp: 20403

Ion Ratio Lower Upper

95 100

174 74.1 0.0 150.8

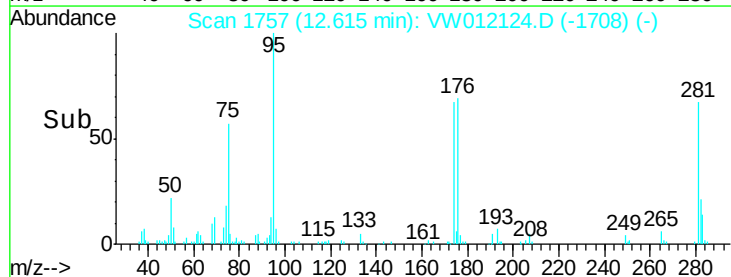
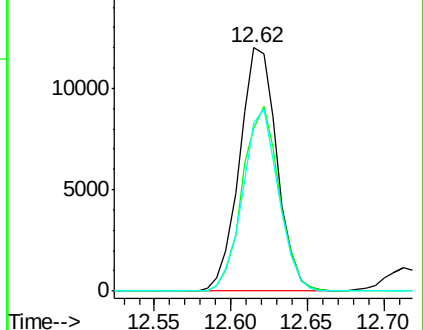
176 71.4 0.0 148.6

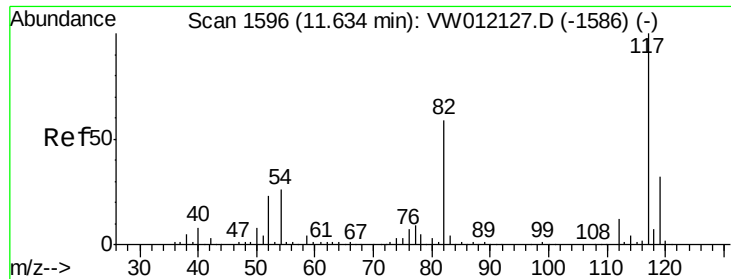


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





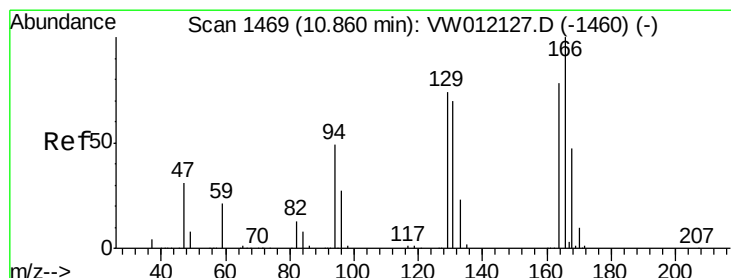
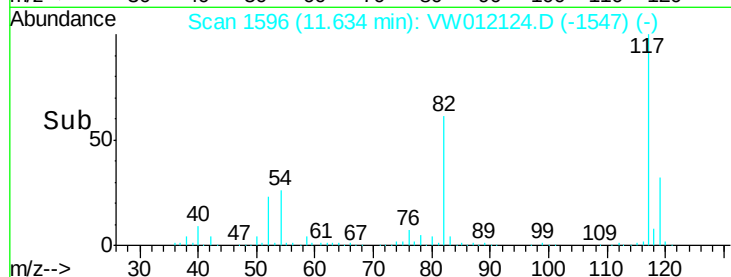
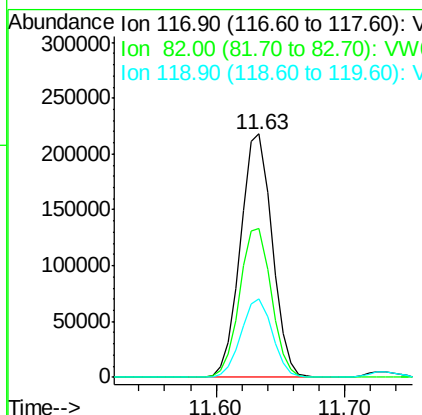
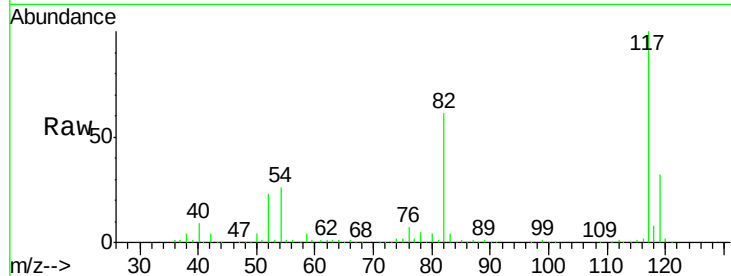
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	47.4	71.2
119	32.2	25.4	38.2

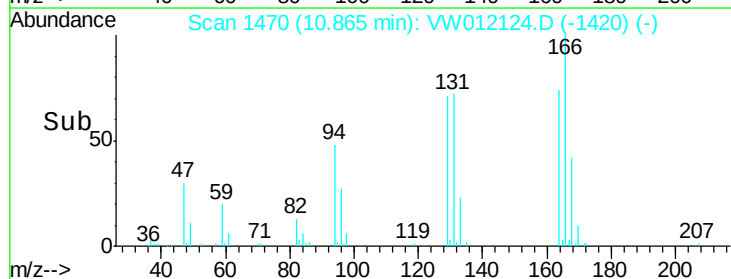
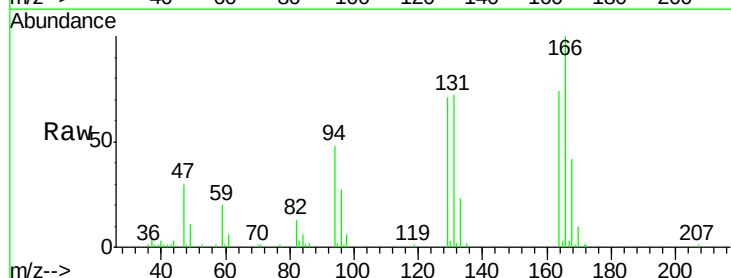
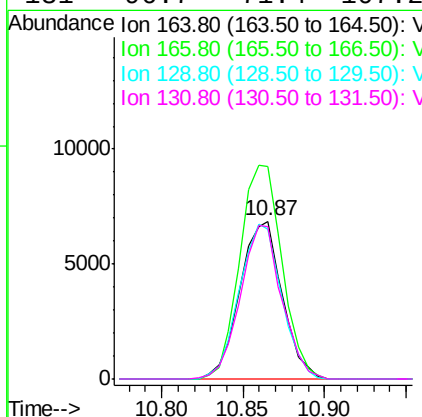
Manual Integrations
APPROVED

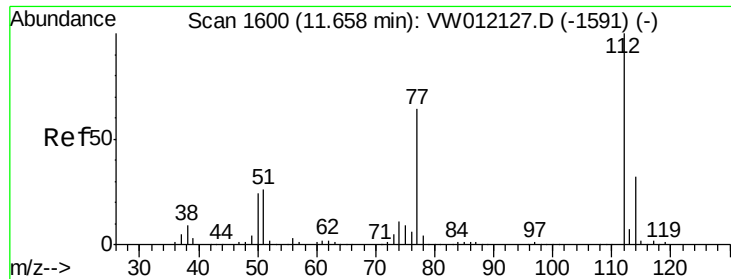
MMDadoda
8/26/2019 11:38:51 AM



#64
Tetrachloroethene
Concen: 5.149 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.8	102.4	153.6
129	95.3	75.8	113.6
131	96.7	71.4	107.2





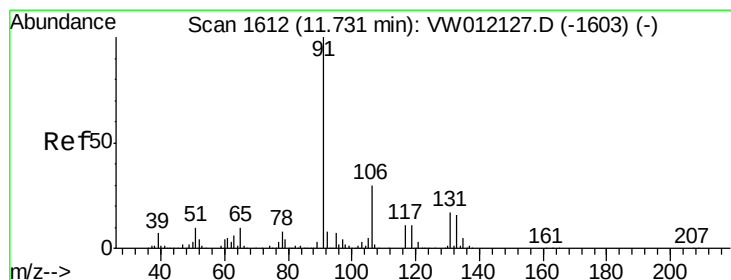
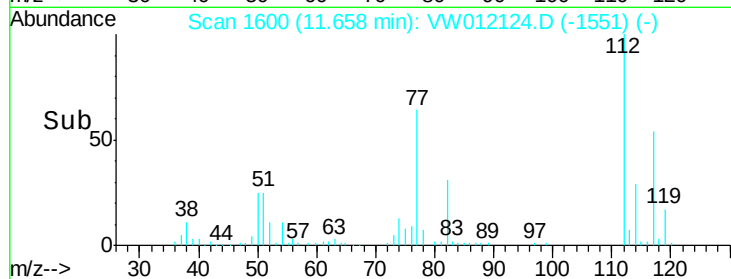
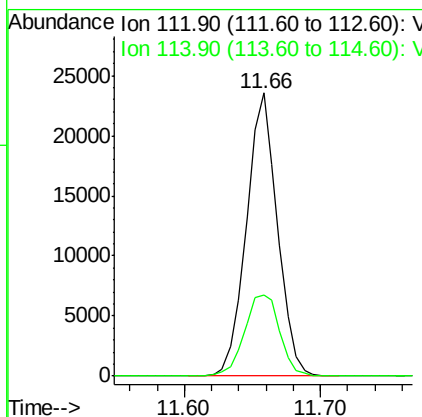
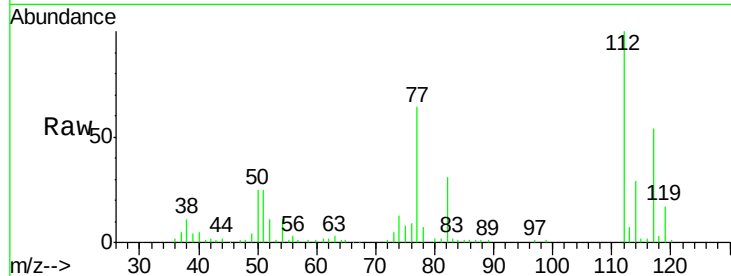
#65
Chlorobenzene
Concen: 5.140 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 37556
Ion Ratio Lower Upper
112 100
114 28.7 25.8 38.6

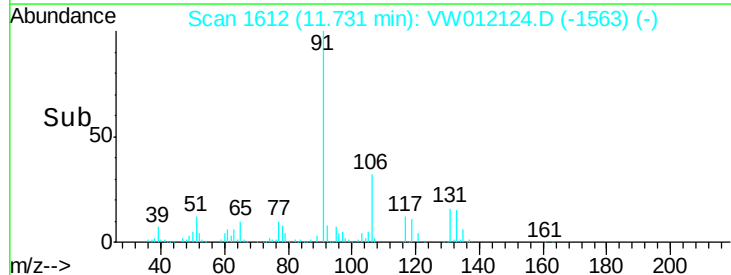
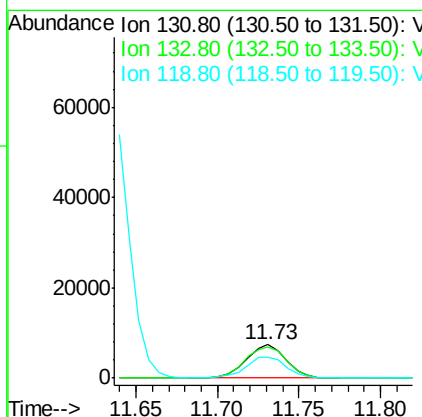
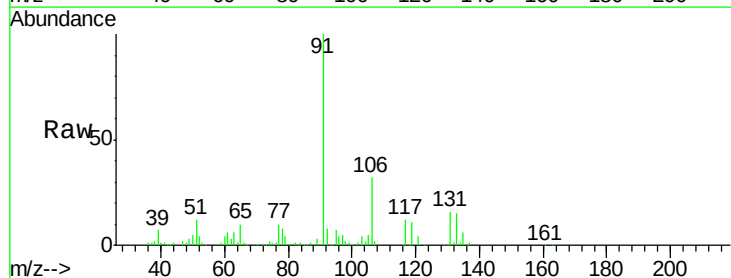
Manual Integrations
APPROVED

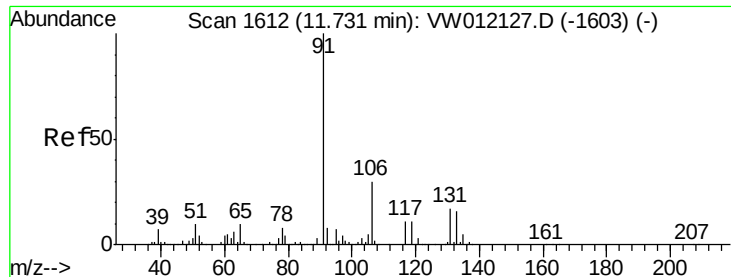
MMDadoda
8/26/2019 11:38:51 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.895 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion:131 Resp: 12476
Ion Ratio Lower Upper
131 100
133 99.0 47.1 141.3
119 65.7 31.8 95.3





#67

Ethyl Benzene

Concen: 5.059 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 71209

Ion Ratio Lower Upper

91 100

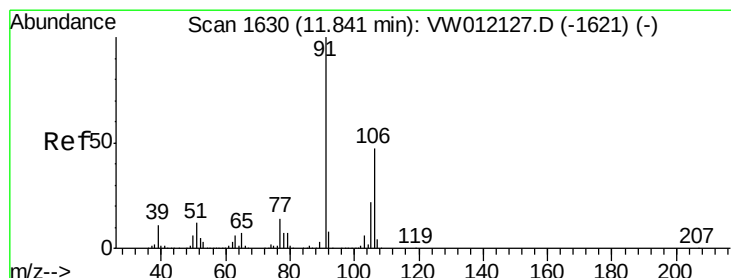
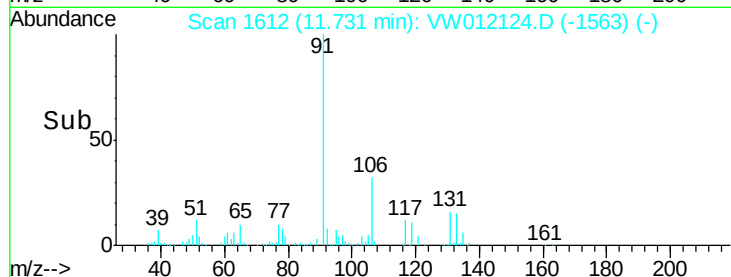
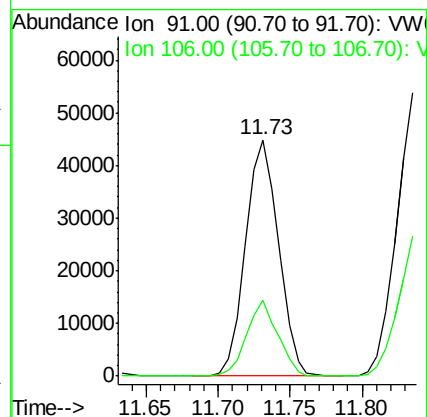
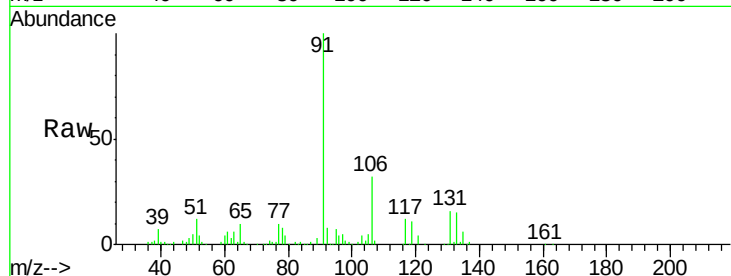
106 32.3 24.3 36.5

Manual Integrations

APPROVED

MMDadoda

8/26/2019 11:38:51 AM



#68

m/p-Xylenes

Concen: 10.068 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW012124.D

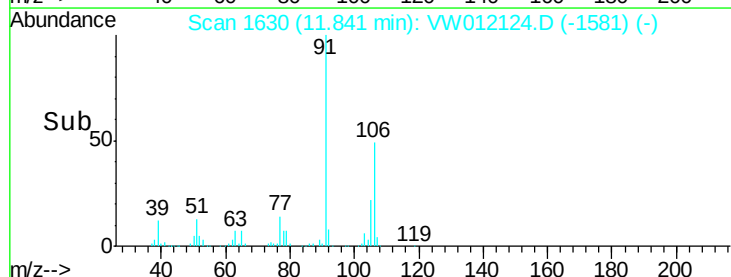
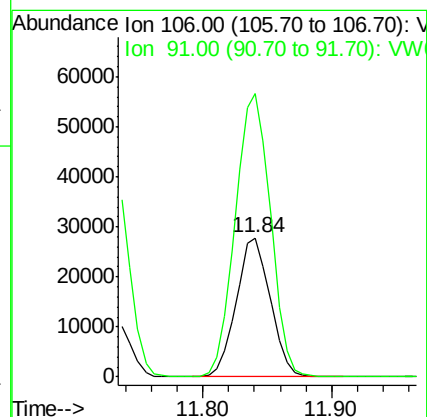
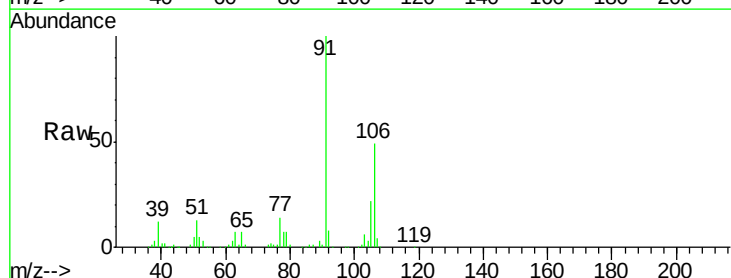
Acq: 23 Aug 2019 09:19

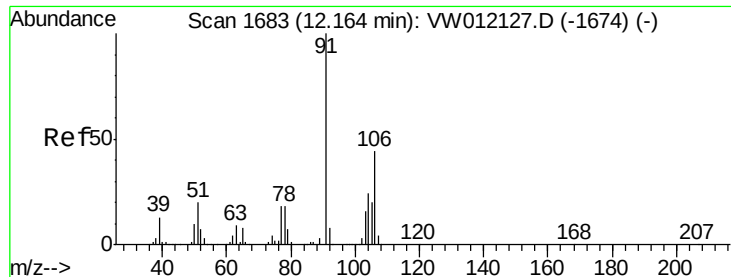
Tgt Ion: 106 Resp: 51045

Ion Ratio Lower Upper

106 100

91 210.0 169.5 254.3





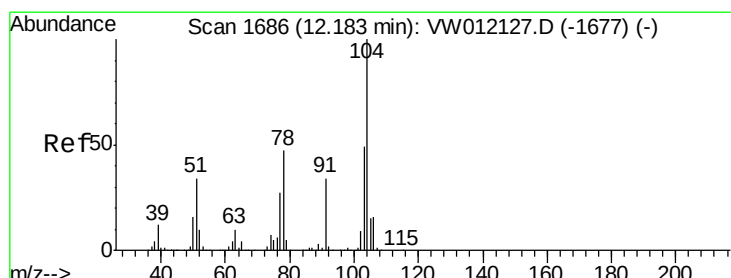
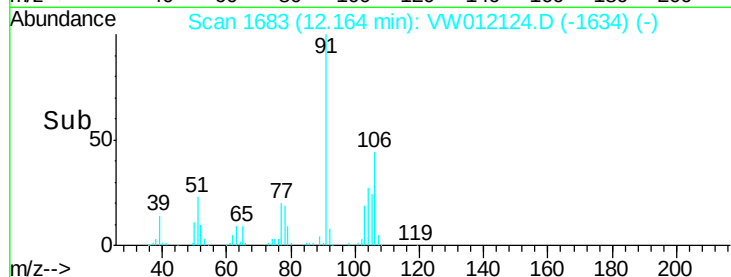
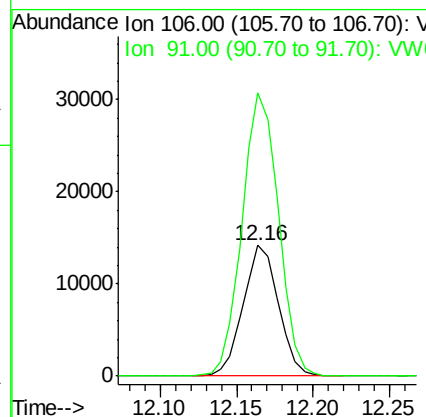
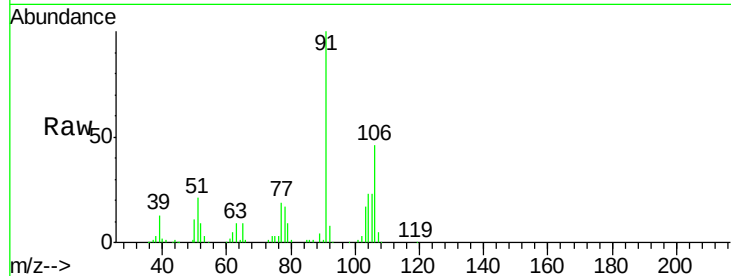
#69
o-Xylene
Concen: 4.852 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 22769
Ion Ratio Lower Upper
106 100
91 223.3 111.6 334.6

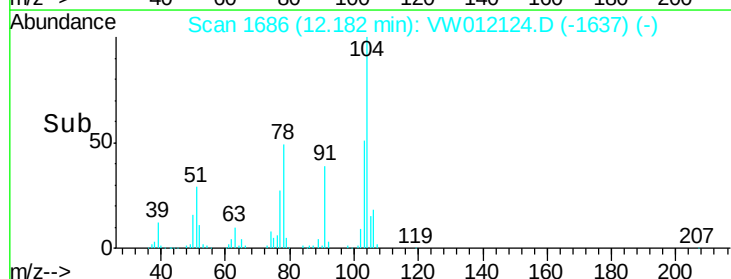
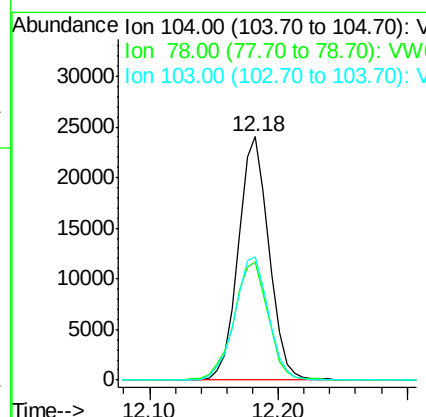
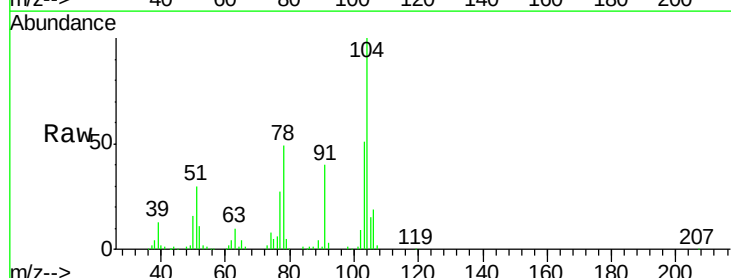
Manual Integrations
APPROVED

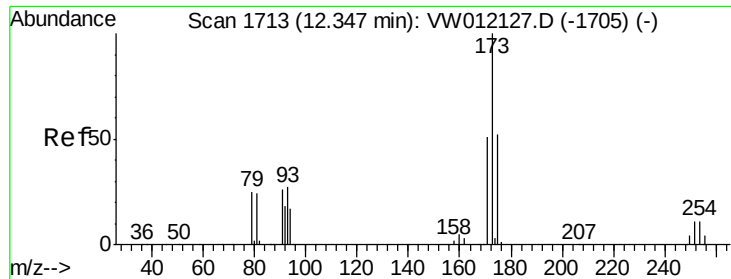
MMDadoda
8/26/2019 11:38:51 AM



#70
Styrene
Concen: 4.863 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion:104 Resp: 39497
Ion Ratio Lower Upper
104 100
78 54.7 43.1 64.7
103 55.9 43.5 65.3





#71

Bromoform

Concen: 4.734 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

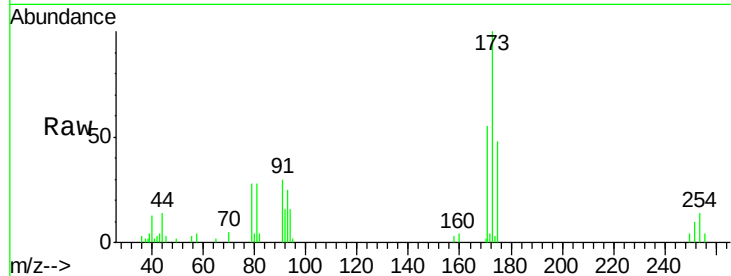
ClientSampleId :

VSTDIC005

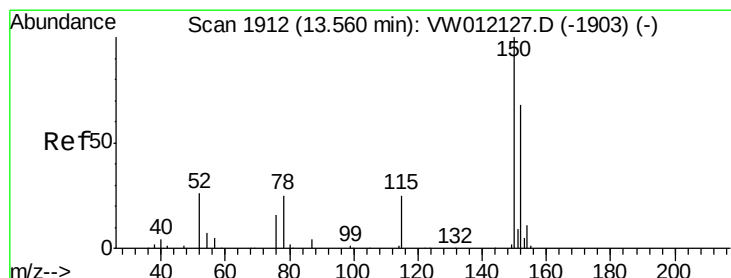
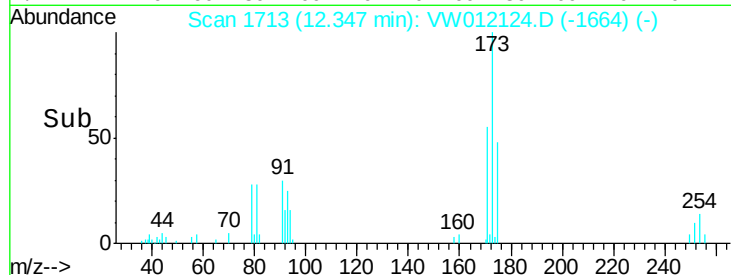
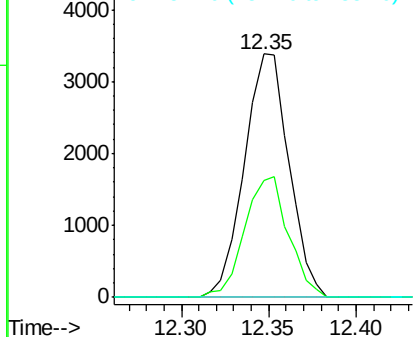
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.6	74.0
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

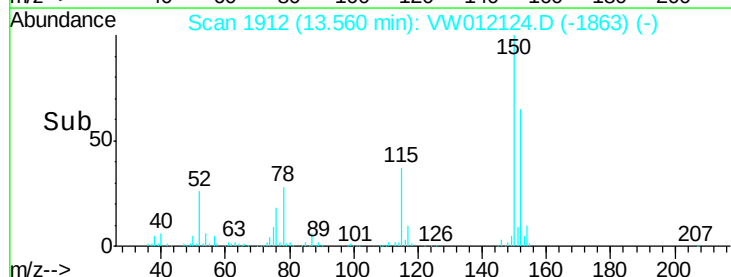
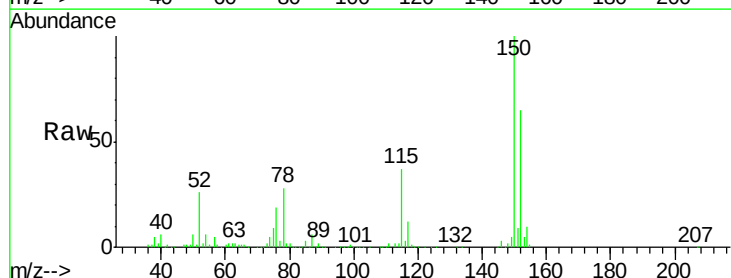
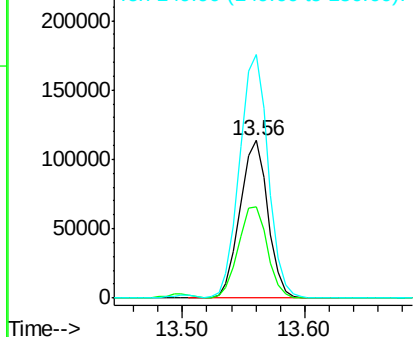
Delta R.T. -0.00 min

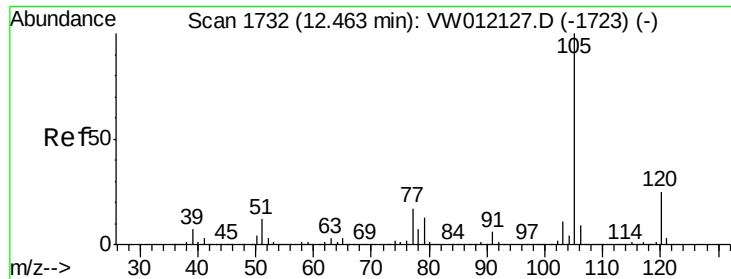
Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.9	30.1	90.3
150	158.2	0.0	345.8

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





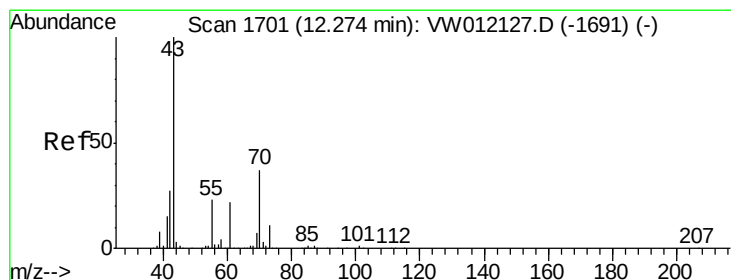
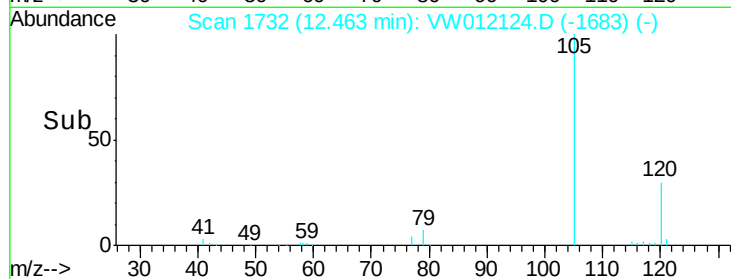
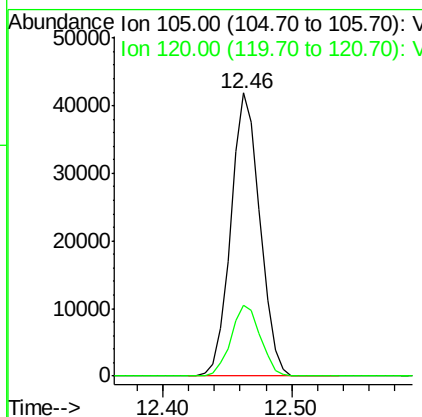
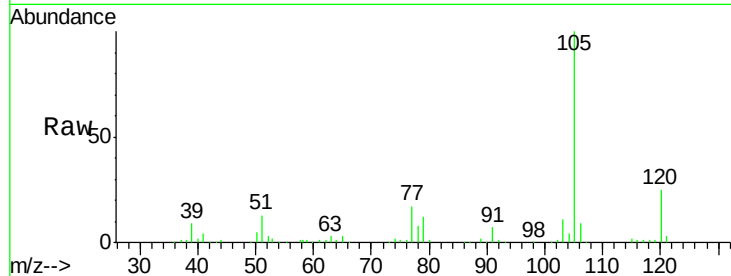
#73
Isopropylbenzene
Concen: 4.895 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:105 Resp: 65903
Ion Ratio Lower Upper
105 100
120 25.1 12.5 37.5

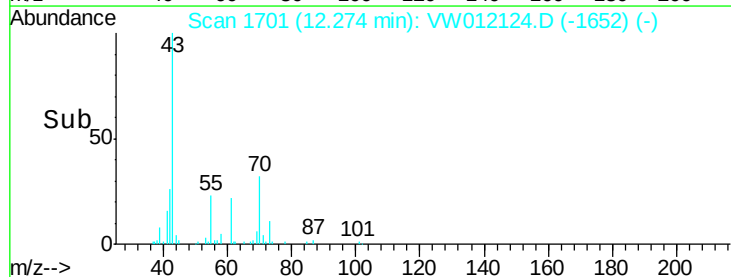
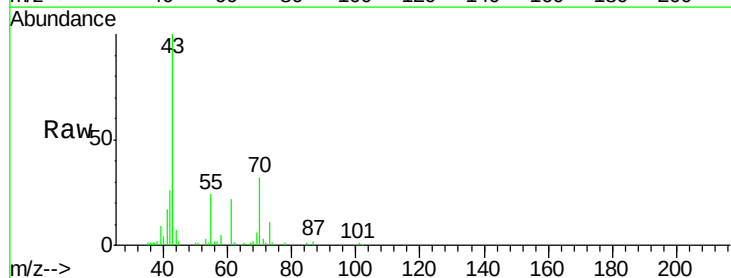
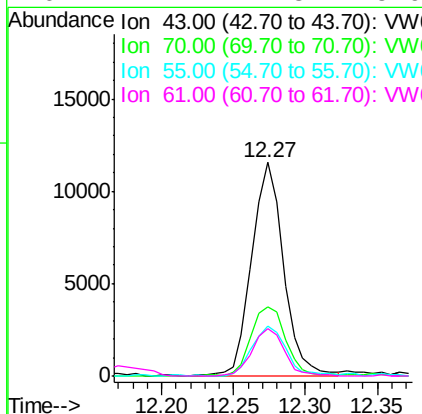
Manual Integrations
APPROVED

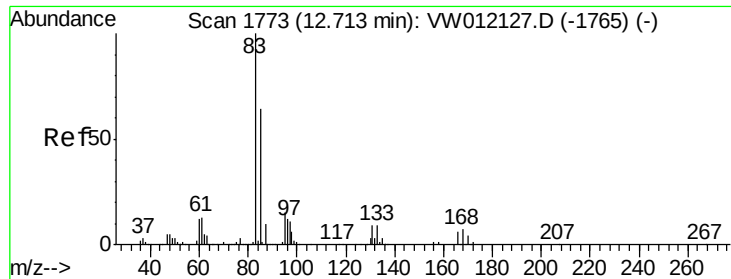
MMDadoda
8/26/2019 11:38:51 AM



#74
N-ethyl acetate
Concen: 4.348 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion: 43 Resp: 17686
Ion Ratio Lower Upper
43 100
70 36.1 28.6 43.0
55 24.9 17.8 26.6
61 22.4 17.3 25.9





#75

1,1,2,2-Tetrachloroethane

Concen: 4.918 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

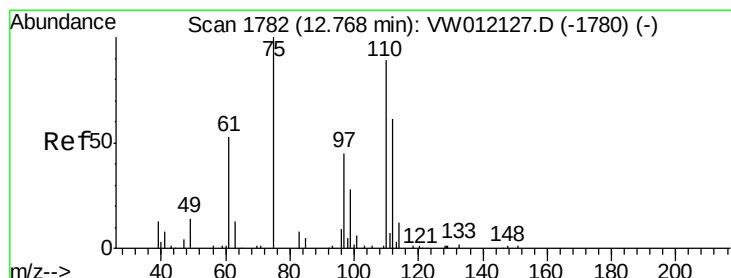
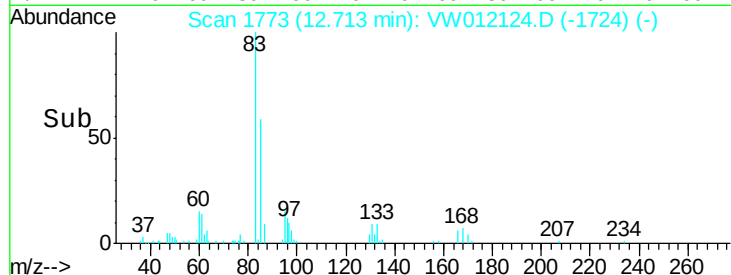
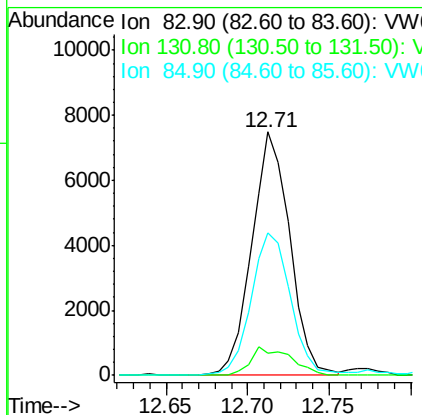
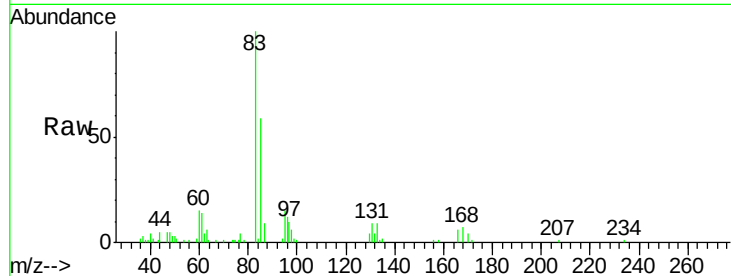
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	12138
Ion Ratio	Lower	Upper	
83	100		
131	12.2	4.9	14.7
85	60.9	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#76

1,2,3-Trichloropropane

Concen: 5.210 ug/l m

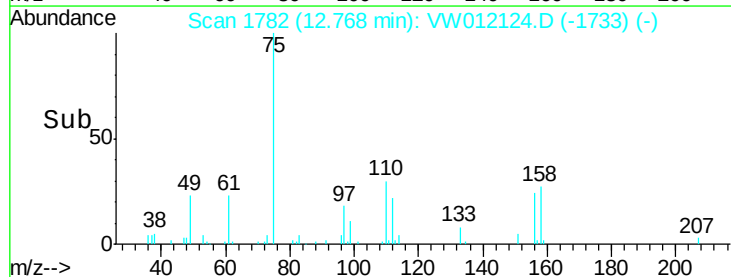
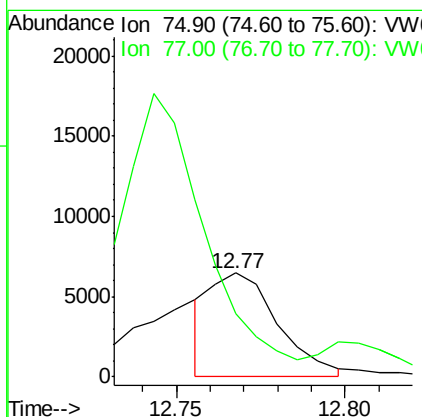
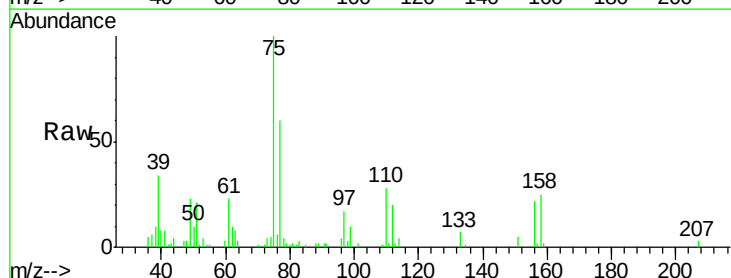
RT: 12.77 min Scan# 1782

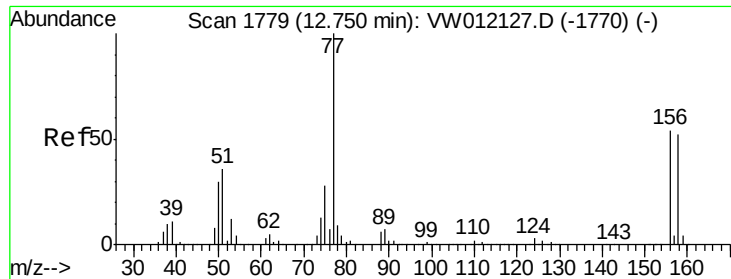
Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion:	75	Resp:	9019
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.045 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Instrument :

MSVOA_W

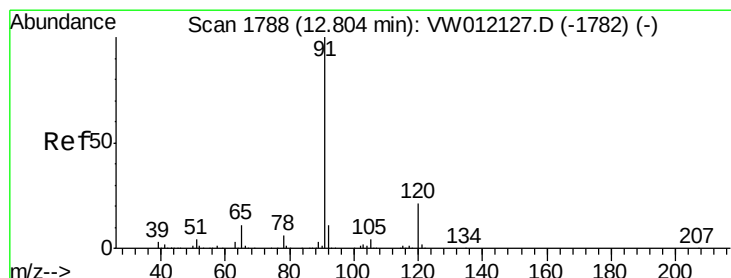
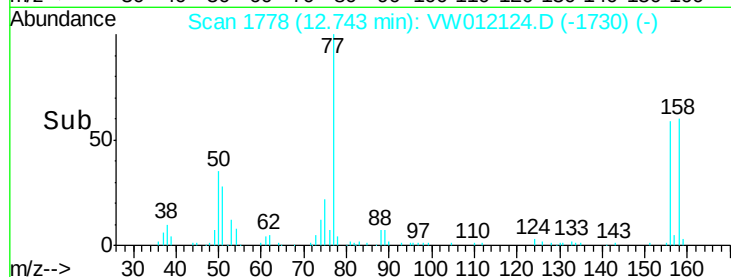
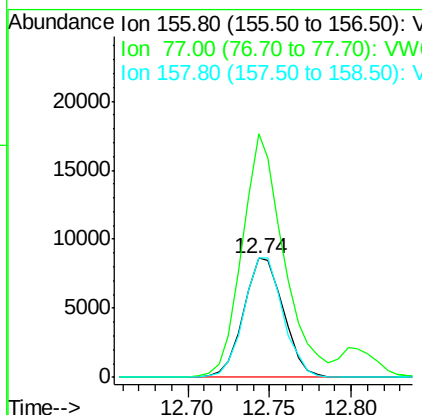
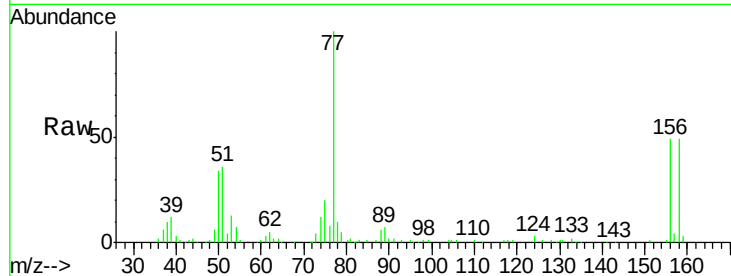
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	14693
Ion Ratio	Lower	Upper	
156	100		
77	213.3	107.3	321.8
158	98.3	49.0	147.0

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#78

n-propylbenzene

Concen: 4.884 ug/l

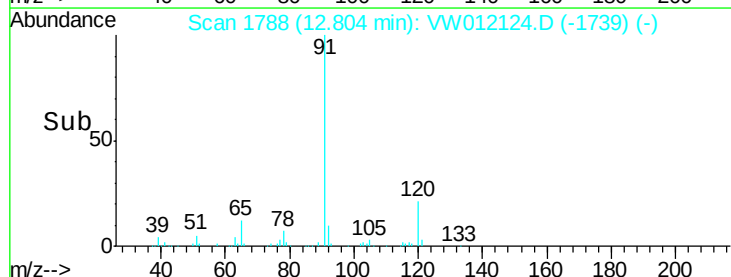
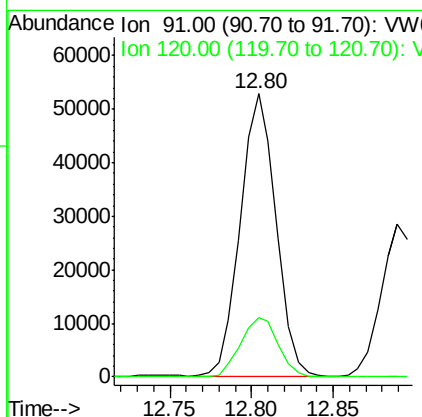
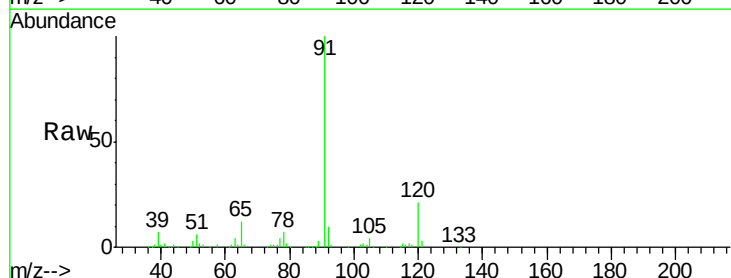
RT: 12.80 min Scan# 1788

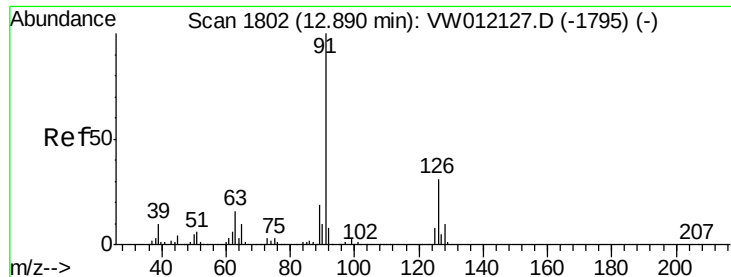
Delta R.T. -0.00 min

Lab File: VW012124.D

Acq: 23 Aug 2019 09:19

Tgt Ion:	91	Resp:	80276
Ion Ratio	Lower	Upper	
91	100		
120	22.1	10.5	31.6





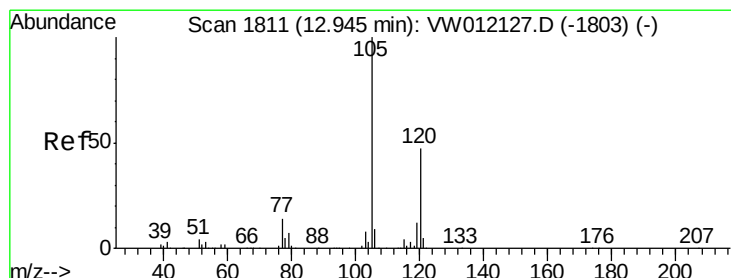
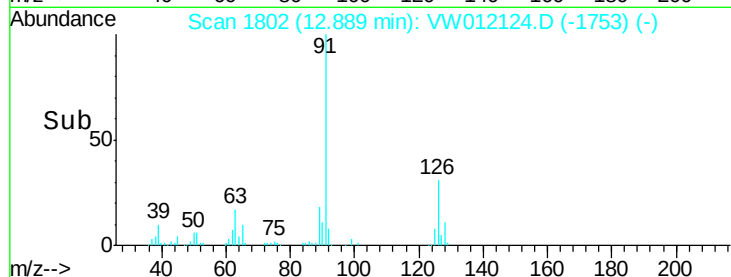
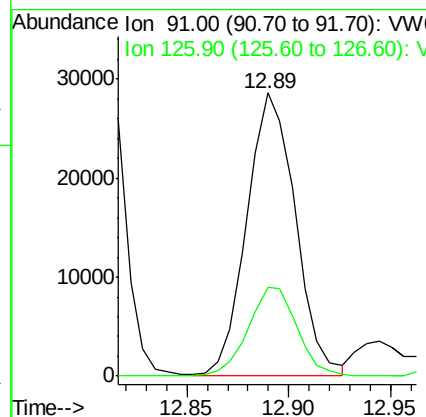
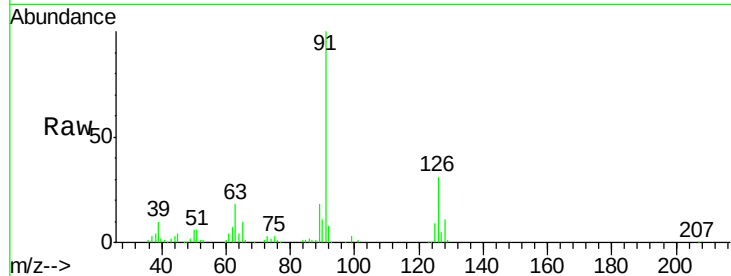
#79
 2-Chlorotoluene
 Concen: 5.057 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.7	47.0

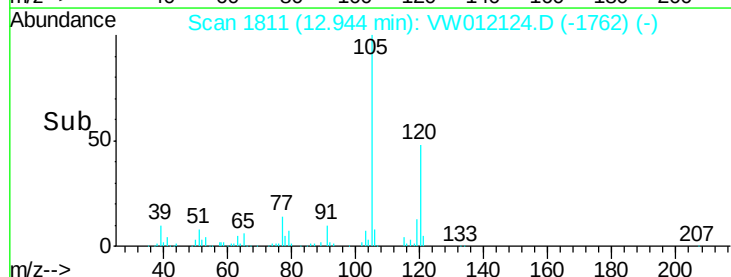
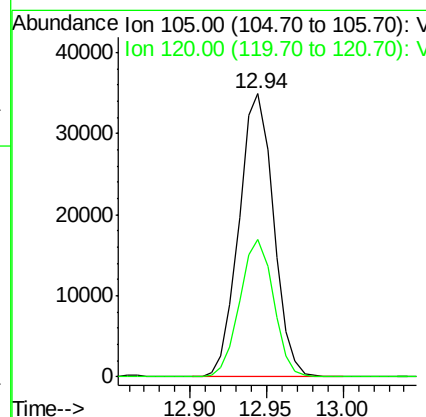
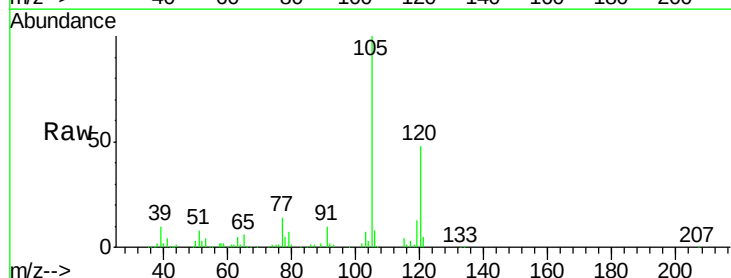
Manual Integrations
 APPROVED

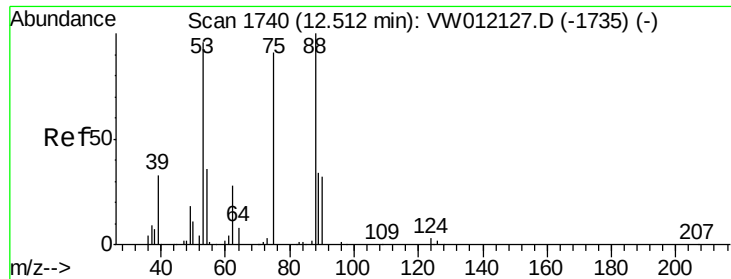
MMDadoda
 8/26/2019 11:38:51 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 4.878 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.0	72.0





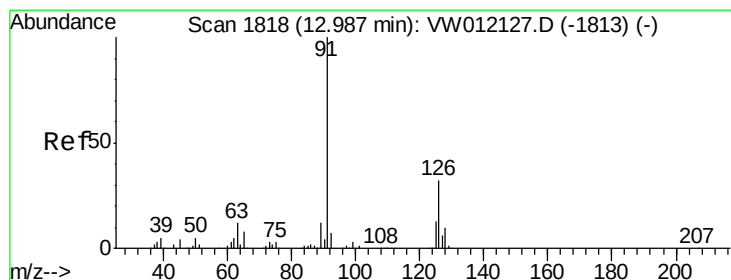
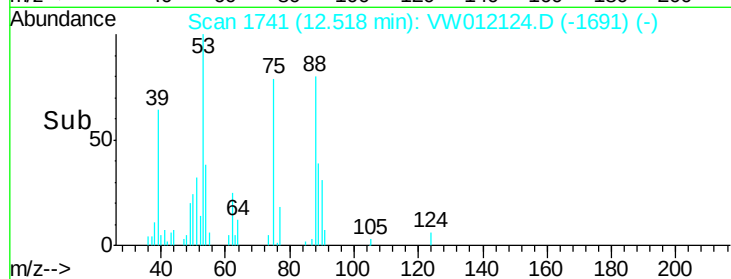
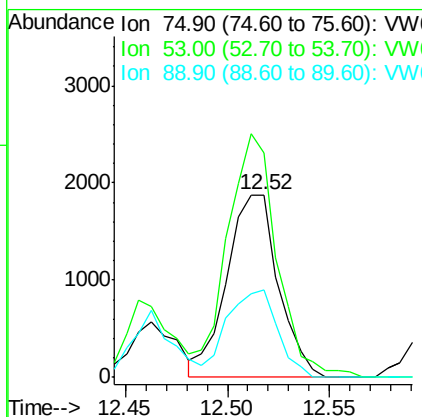
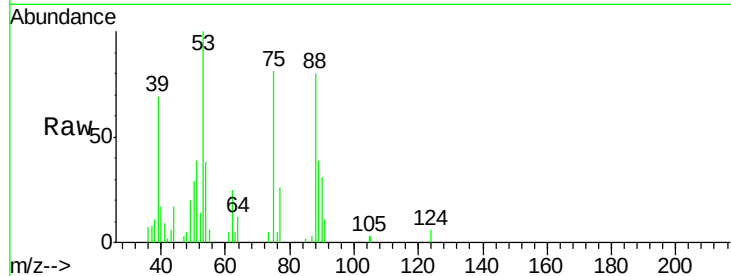
#81
trans-1,4-Dichloro-2-butene
Concen: 4.136 ug/l
RT: 12.52 min Scan# 1741
Delta R.T. 0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	128.4	89.4	134.0
89	46.8	34.5	51.7

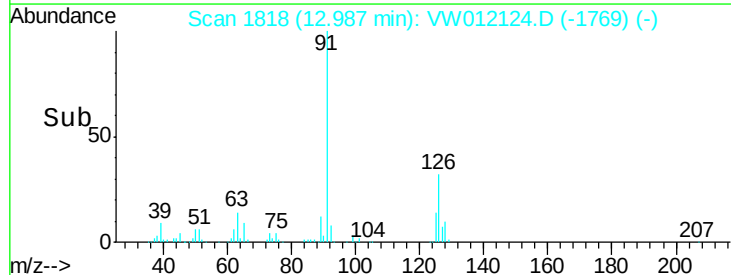
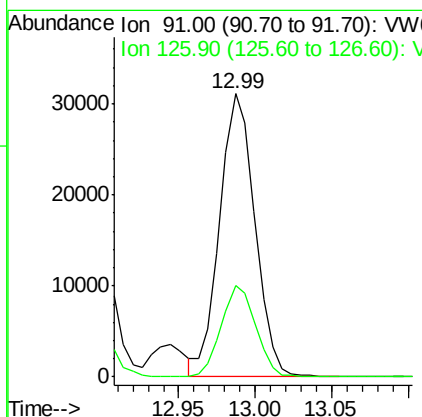
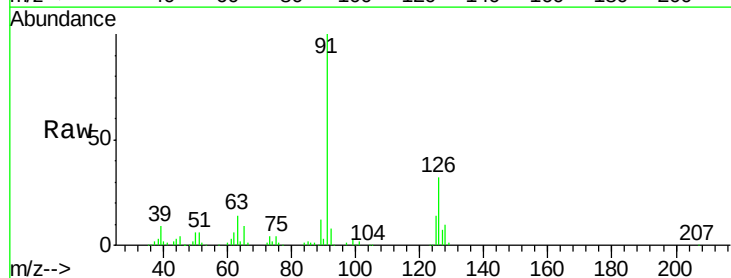
Manual Integrations
APPROVED

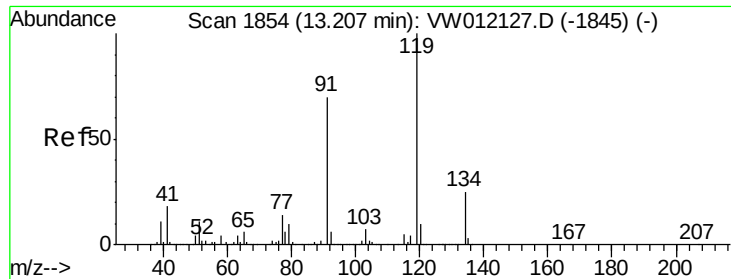
MMDadoda
8/26/2019 11:38:51 AM



#82
4-Chlorotoluene
Concen: 5.099 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.6	46.8





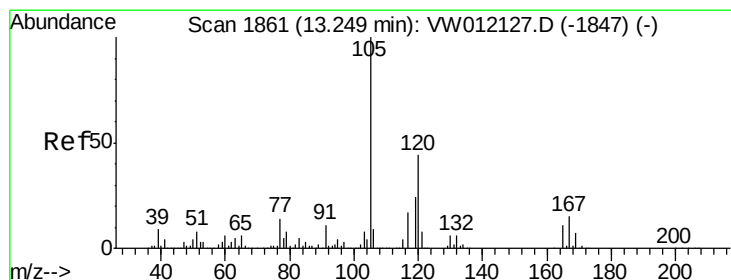
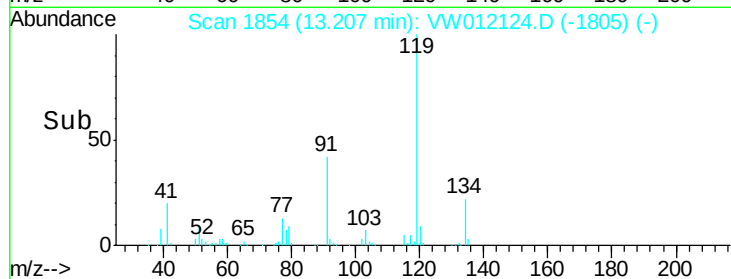
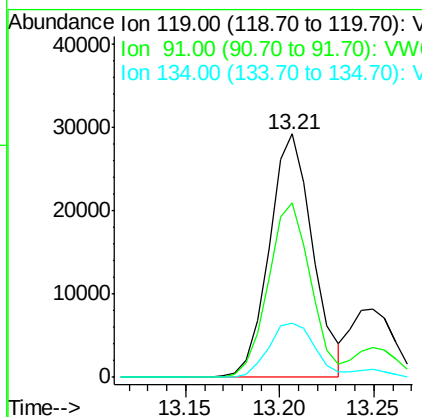
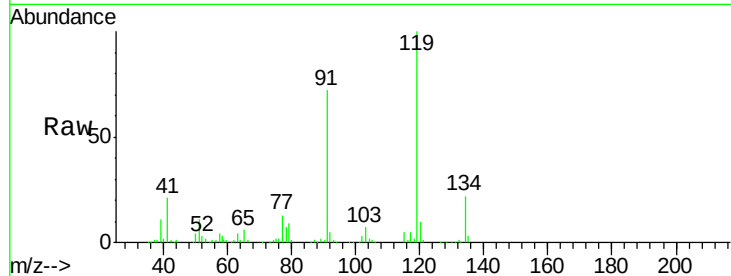
#83
tert-Butylbenzene
Concen: 4.898 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.1	34.8	104.3
134	24.0	13.3	39.8

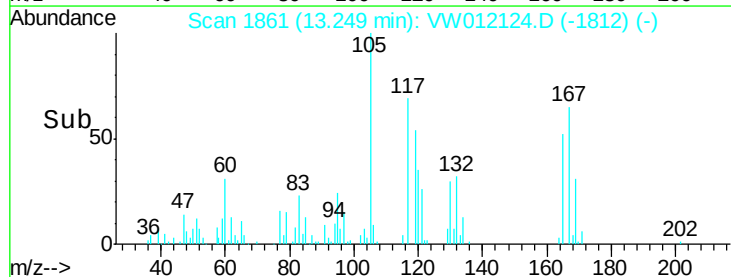
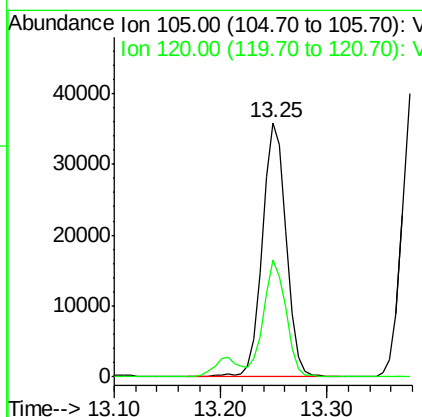
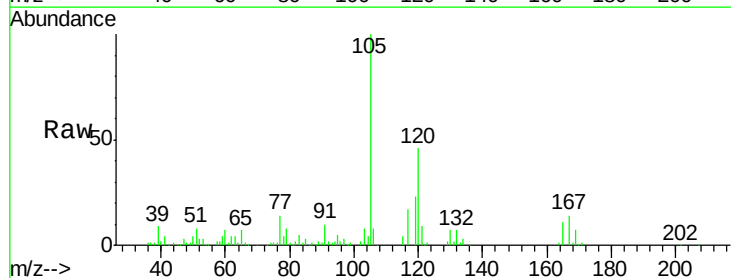
Manual Integrations
APPROVED

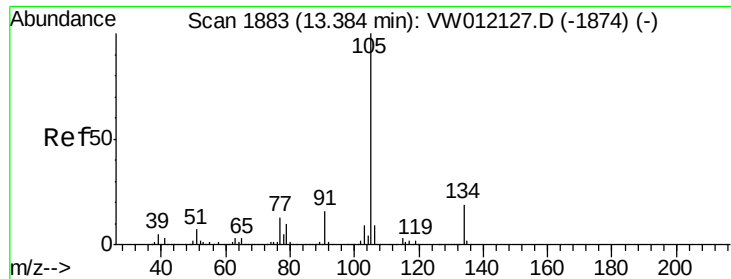
MMDadoda
8/26/2019 11:38:51 AM



#84
1,2,4-Trimethylbenzene
Concen: 4.980 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.0	21.9	65.7





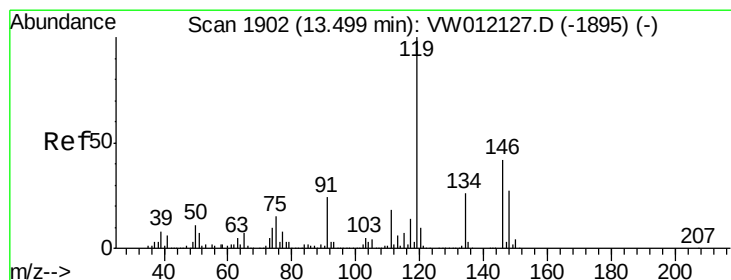
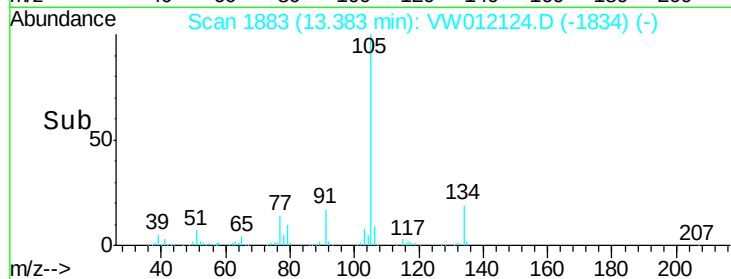
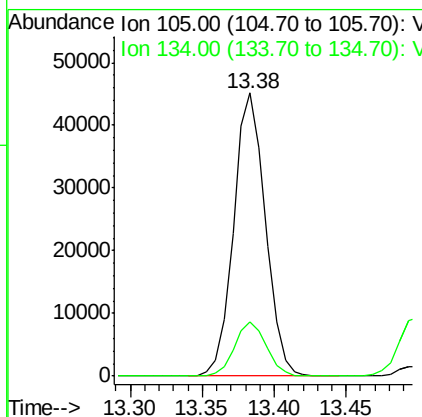
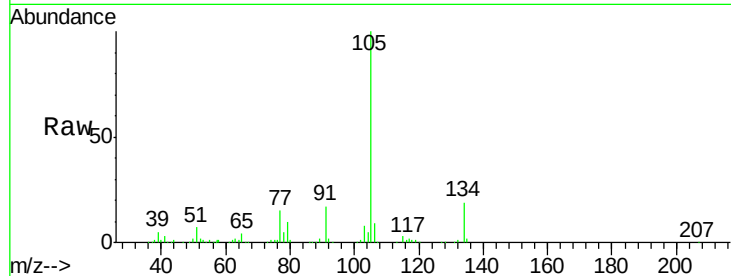
#85
 sec-Butylbenzene
 Concen: 5.072 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4

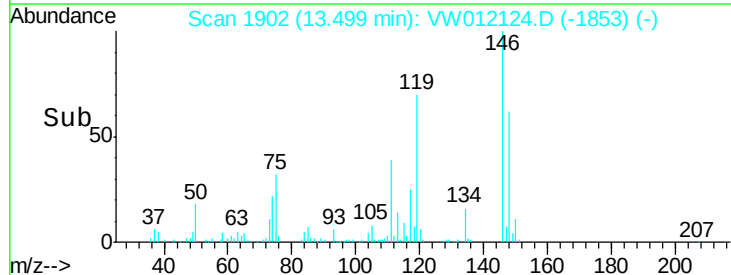
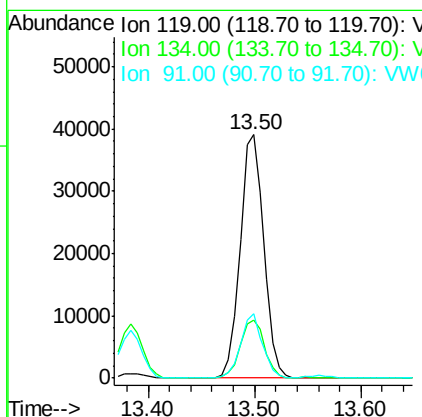
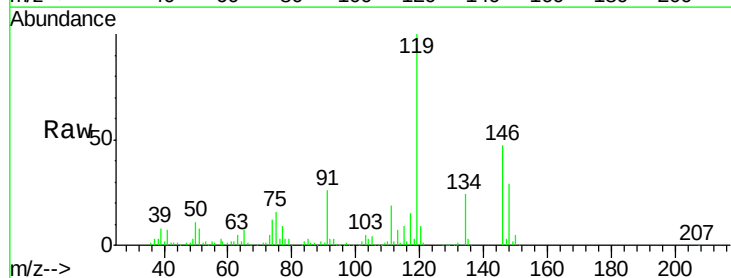
Manual Integrations
 APPROVED

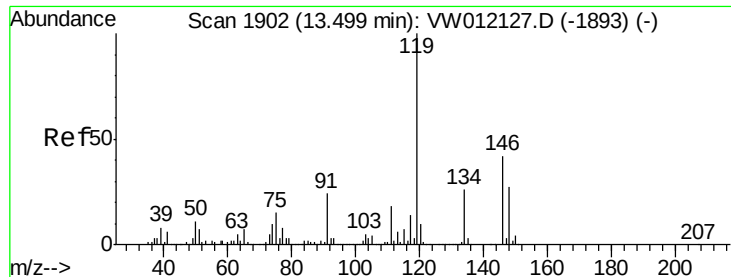
MMDadoda
 8/26/2019 11:38:51 AM



#86
 p-Isopropyltoluene
 Concen: 4.989 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.8	38.3
91	24.8	12.3	36.9





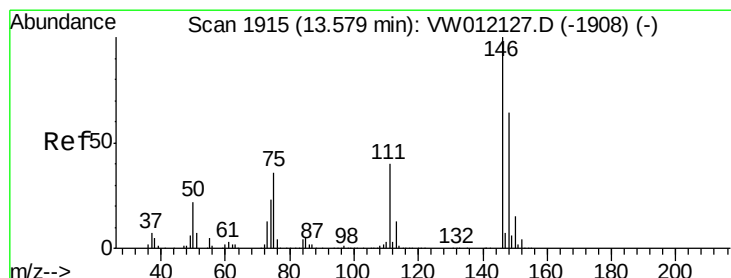
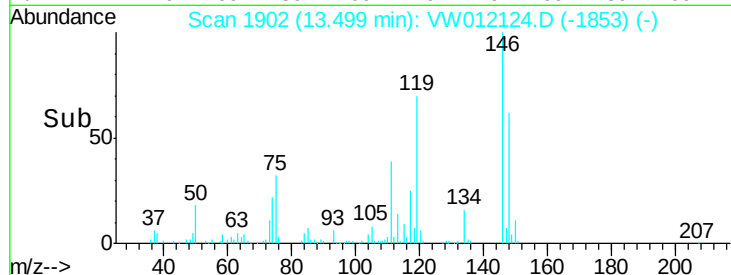
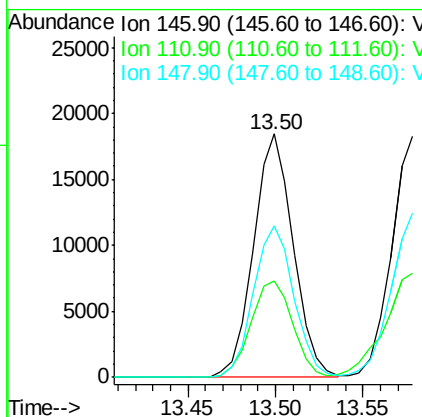
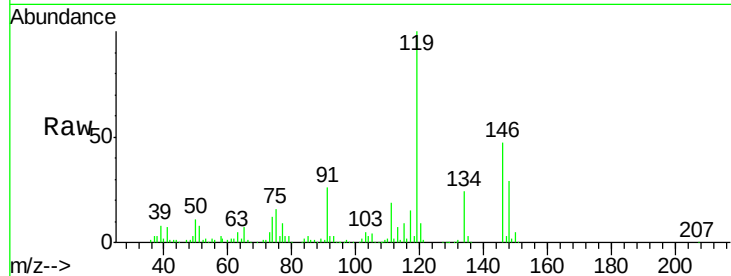
#87
 1,3-Dichlorobenzene
 Concen: 5.131 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.9	62.7
148	63.4	32.2	96.6

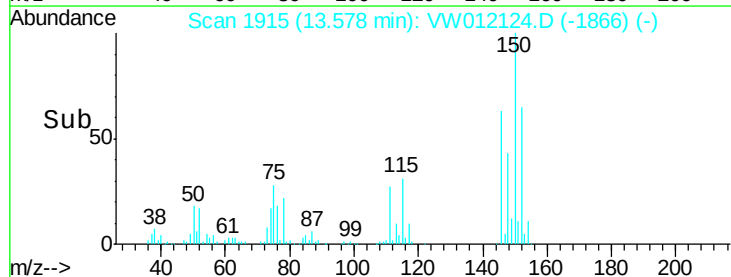
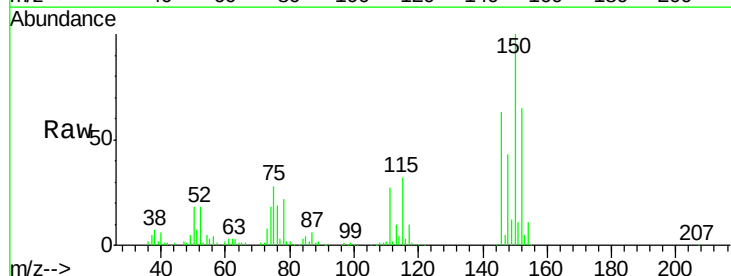
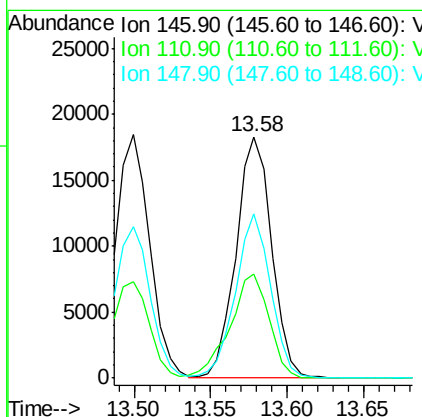
Manual Integrations
 APPROVED

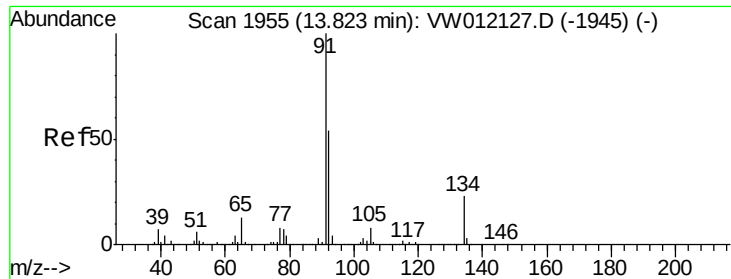
MMDadoda
 8/26/2019 11:38:51 AM



#88
 1,4-Dichlorobenzene
 Concen: 5.229 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.7	20.0	60.0
148	67.4	32.1	96.3





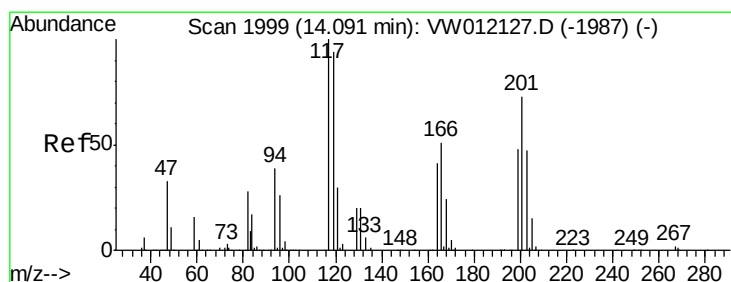
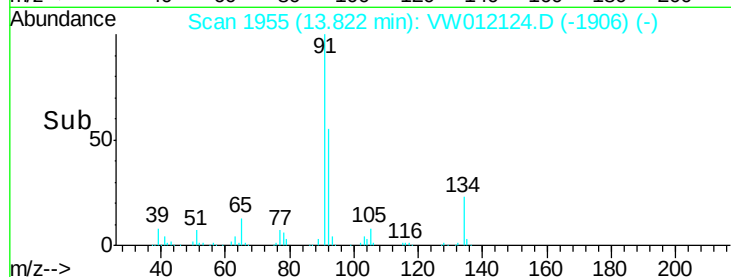
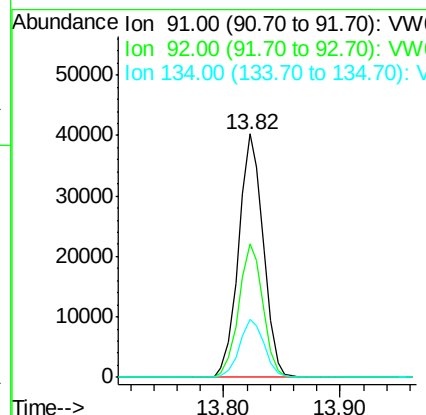
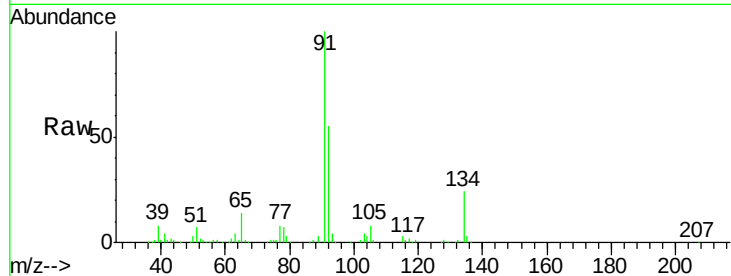
#89
n-Butylbenzene
Concen: 4.900 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.7	27.1	81.2
134	23.6	12.2	36.4

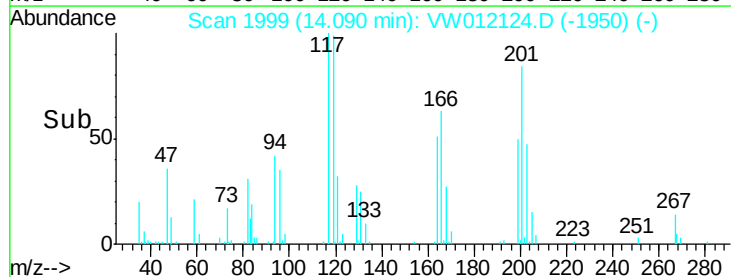
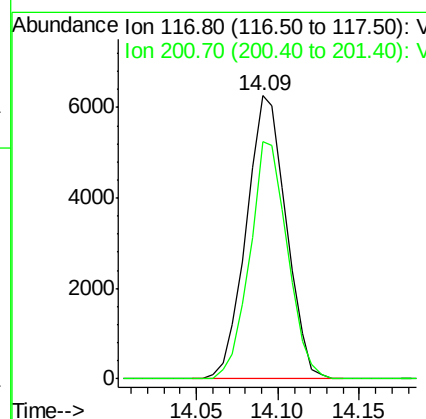
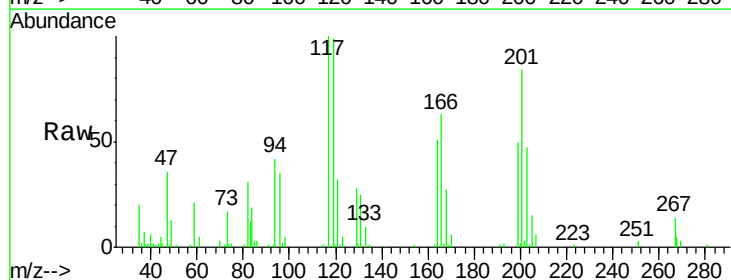
Manual Integrations
APPROVED

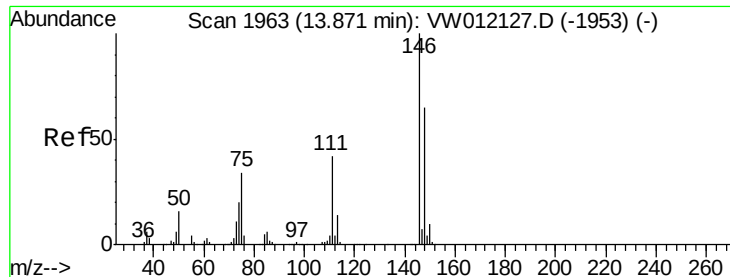
MMDadoda
8/26/2019 11:38:51 AM



#90
Hexachloroethane
Concen: 4.983 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.1	38.6	115.7





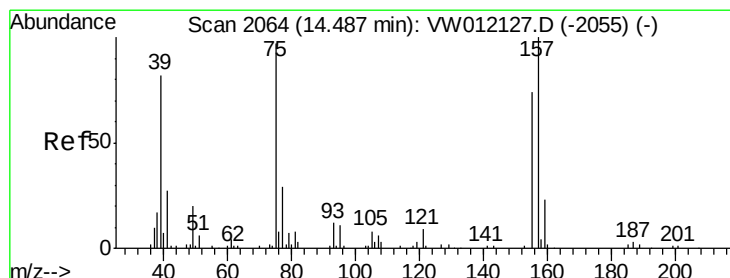
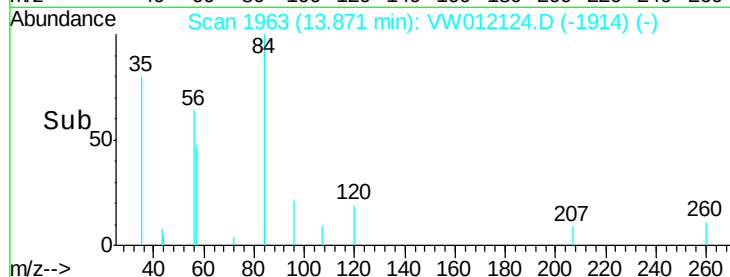
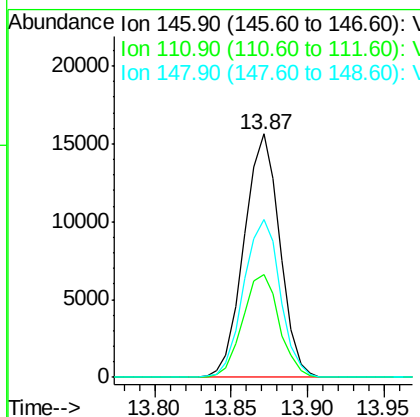
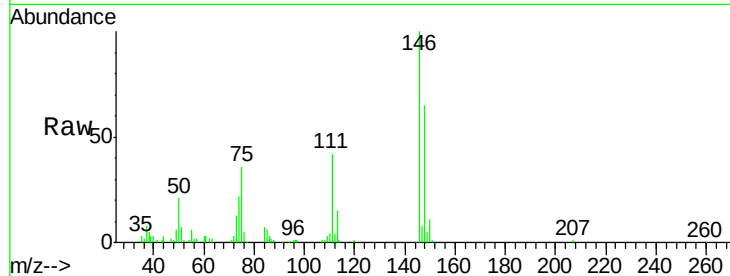
#91
 1,2-Dichlorobenzene
 Concen: 5.084 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.2	63.6
148	66.4	32.5	97.4

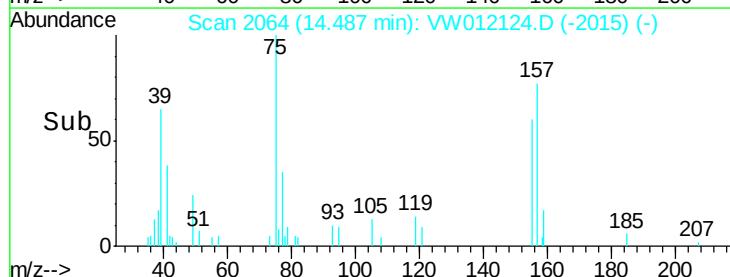
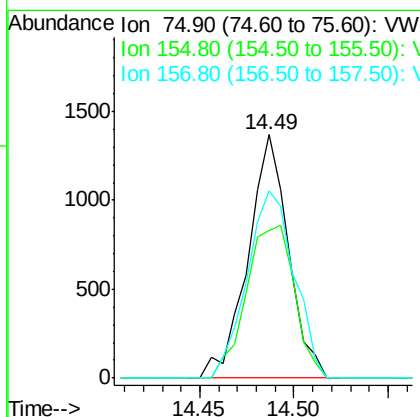
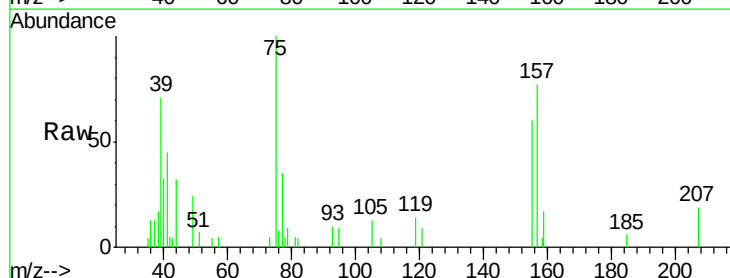
Manual Integrations
 APPROVED

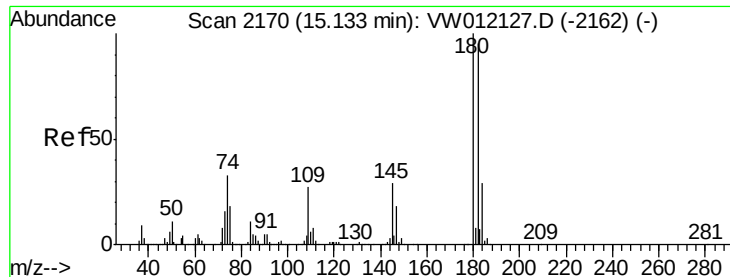
MMDadoda
 8/26/2019 11:38:51 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.874 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.7	37.5	112.3
157	89.9	50.5	151.5





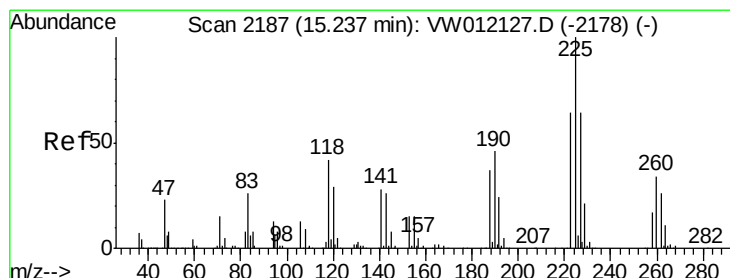
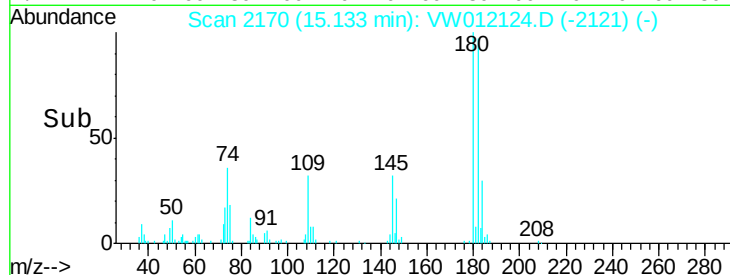
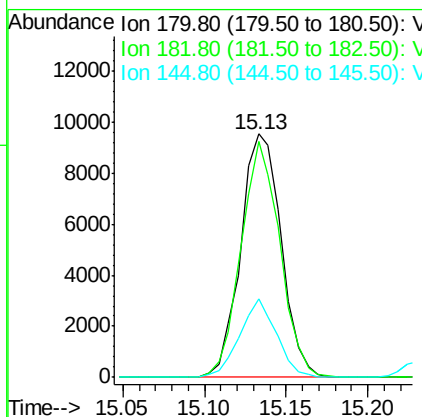
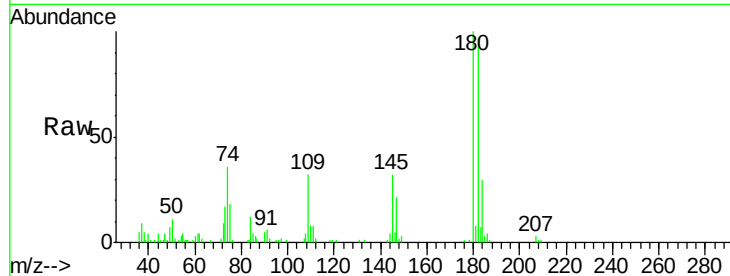
#93
 1,2,4-Trichlorobenzene
 Concen: 4.769 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	16469		
182	92.8	47.8	143.4	
145	29.2	15.0	45.1	

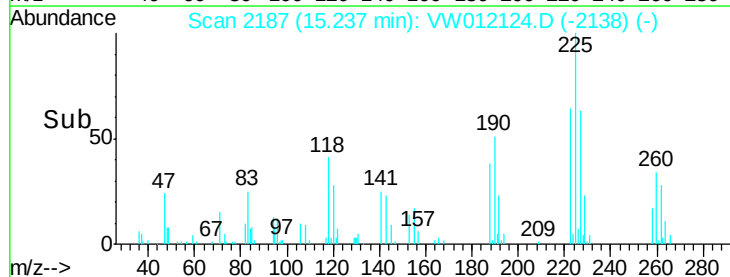
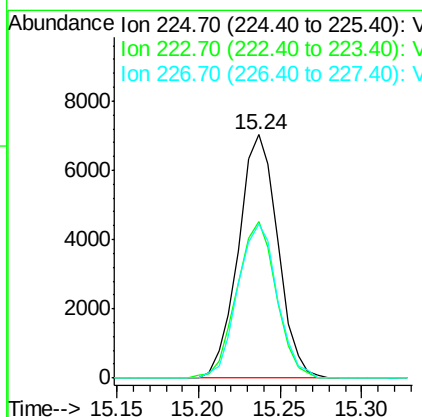
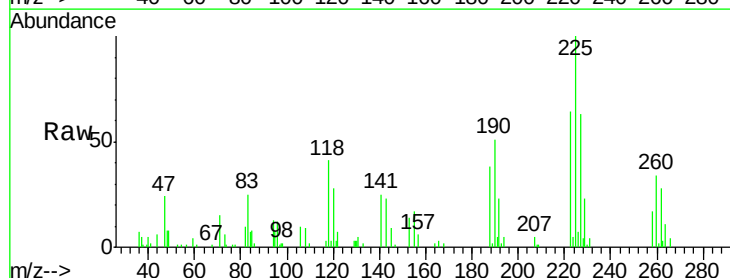
Manual Integrations
 APPROVED

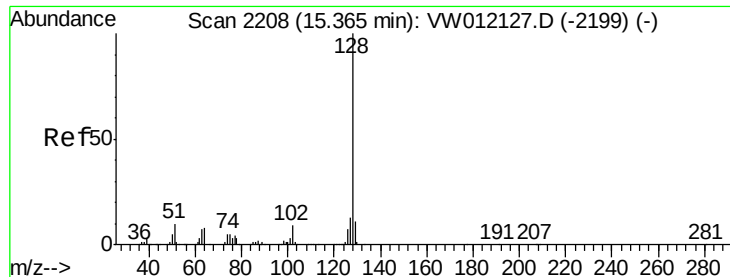
MMDadoda
 8/26/2019 11:38:51 AM



#94
 Hexachlorobutadiene
 Concen: 5.198 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW012124.D
 Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	11853		
223	64.1	32.3	96.8	
227	63.6	32.9	98.6	





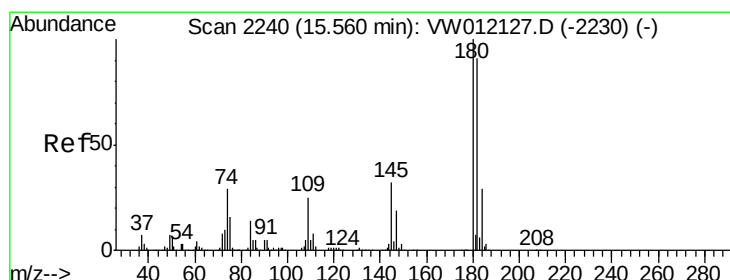
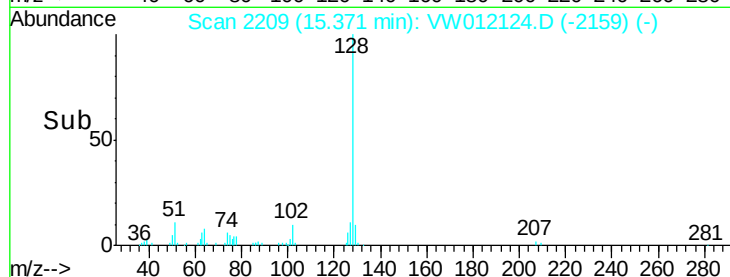
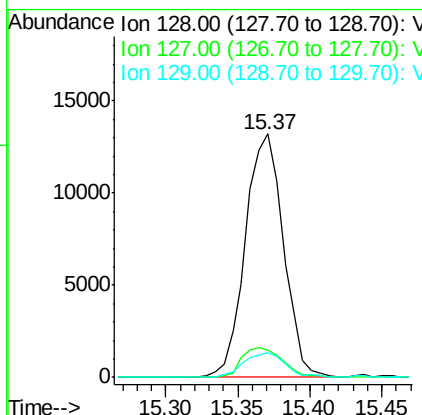
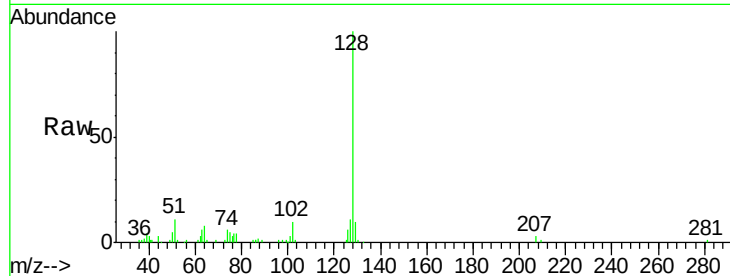
#95
Naphthalene
Concen: 3.988 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.7	16.1
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/26/2019 11:38:51 AM



#96
1,2,3-Trichlorobenzene
Concen: 4.700 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.01 min
Lab File: VW012124.D
Acq: 23 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.3
145	32.1	16.2	48.5

