

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100119\
 Data File : VW013367.D
 Acq On : 01 Oct 2019 12:35
 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
 10/14/2019 9:11:52 AM

Quant Time: Oct 02 09:03:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 15:01:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	370392	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	530816	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	454823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	224886	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	14368	5.09	ug/l	0.00
Spiked Amount			Recovery	=	10.18%	
35) Dibromofluoromethane	7.88	113	14496	5.08	ug/l	0.00
Spiked Amount			Recovery	=	10.16%	
50) Toluene-d8	10.32	98	61007	5.20	ug/l	0.00
Spiked Amount			Recovery	=	10.40%	
62) 4-Bromofluorobenzene	12.61	95	21082	5.41	ug/l	0.00
Spiked Amount			Recovery	=	10.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	6980	5.018	ug/l	97
3) Chloromethane	2.21	50	13486	5.129	ug/l	99
4) Vinyl Chloride	2.35	62	18254	5.223	ug/l #	88
5) Bromomethane	2.78	94	10811	5.031	ug/l	82
6) Chloroethane	2.92	64	10675	5.410	ug/l	97
7) Trichlorofluoromethane	3.26	101	7500	4.919	ug/l	92
8) Diethyl Ether	3.68	74	8146	4.771	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	4.06	101	17453	5.191	ug/l	96
10) Methyl Iodide	4.27	142	26420	4.944	ug/l	100
11) Tert butyl alcohol	5.19	59	7198m	12.204	ug/l	
12) 1,1-Dichloroethene	4.04	96	17449	4.952	ug/l	82
13) Acrolein	3.89	56	1837	7.589	ug/l #	82
14) Allyl chloride	4.67	41	25640	4.977	ug/l	98
15) Acrylonitrile	5.37	53	17527	22.352	ug/l	95
16) Acetone	4.12	43	25320	27.756	ug/l	89
17) Carbon Disulfide	4.38	76	46200	4.772	ug/l	98
18) Methyl Acetate	4.67	43	10743	5.187	ug/l	91
19) Methyl tert-butyl Ether	5.42	73	25244	4.880	ug/l	100
20) Methylene Chloride	4.90	84	25389	5.542	ug/l	89
21) trans-1,2-Dichloroethene	5.42	96	18208	4.891	ug/l	99
22) Diisopropyl ether	6.31	45	47966	4.824	ug/l #	92
23) Vinyl Acetate	6.26	43	123595	20.777	ug/l	100
24) 1,1-Dichloroethane	6.20	63	29482	4.798	ug/l	96
25) 2-Butanone	7.18	43	25369	22.107	ug/l	96
26) 2,2-Dichloropropane	7.16	77	23400	5.546	ug/l	93
27) cis-1,2-Dichloroethene	7.17	96	18737	4.783	ug/l	87
28) Bromochloromethane	7.51	49	10401	4.923	ug/l #	95
29) Tetrahydrofuran	7.53	42	13298	20.013	ug/l	100
30) Chloroform	7.68	83	31121	5.174	ug/l	96
31) Cyclohexane	7.95	56	36014	5.347	ug/l #	80
32) 1,1,1-Trichloroethane	7.87	97	22840	4.853	ug/l	98
36) 1,1-Dichloropropene	8.08	75	25379	4.939	ug/l	98
37) Ethyl Acetate	7.24	43	11735	4.527	ug/l	97
38) Carbon Tetrachloride	8.06	117	20866	4.745	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100119\
 Data File : VW013367.D
 Acq On : 01 Oct 2019 12:35
 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
 10/14/2019 9:11:52 AM

Quant Time: Oct 02 09:03:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 15:01:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	33438	4.960	ug/l	96
40) Benzene	8.32	78	71847	4.946	ug/l	98
41) Methacrylonitrile	7.49	41	5678	2.035	ug/l	94
42) 1,2-Dichloroethane	8.40	62	18023	4.896	ug/l	98
43) Isopropyl Acetate	8.42	43	18042	4.241	ug/l	97
44) Trichloroethene	9.09	130	19262	4.701	ug/l	96
45) 1,2-Dichloropropane	9.37	63	16609	4.835	ug/l	97
46) Dibromomethane	9.46	93	7903	4.581	ug/l	96
47) Bromodichloromethane	9.64	83	19599	4.693	ug/l	96
48) Methyl methacrylate	9.43	41	8317	4.186	ug/l	97
49) 1,4-Dioxane	9.46	88	2302	74.735	ug/l #	75
51) 4-Methyl-2-Pentanone	10.21	43	50207	21.901	ug/l	98
52) Toluene	10.38	92	45151	4.870	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	19561	4.631	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	24361	4.697	ug/l	96
55) 1,1,2-Trichloroethane	10.79	97	12006	4.680	ug/l	94
56) Ethyl methacrylate	10.65	69	14318	4.241	ug/l	96
57) 1,3-Dichloropropane	10.93	76	20700	4.587	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	29606	21.258	ug/l	99
59) 2-Hexanone	10.97	43	30374	19.856	ug/l	96
60) Dibromochloromethane	11.13	129	12897	4.540	ug/l	99
61) 1,2-Dibromoethane	11.24	107	11484	4.591	ug/l	99
64) Tetrachloroethene	10.86	164	17843	4.910	ug/l	94
65) Chlorobenzene	11.66	112	47363	4.859	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	15456	4.787	ug/l	96
67) Ethyl Benzene	11.73	91	83586	4.798	ug/l	98
68) m/p-Xylenes	11.83	106	64392	9.547	ug/l	98
69) o-Xylene	12.16	106	30272	4.926	ug/l	99
70) Styrene	12.18	104	50225	4.759	ug/l	99
71) Bromoform	12.35	173	7702	4.384	ug/l #	100
73) Isopropylbenzene	12.46	105	84264	4.977	ug/l	100
74) N-amyl acetate	12.27	43	14879	4.074	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	13098	4.510	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	8659m	4.258	ug/l	
77) Bromobenzene	12.74	156	20518	5.091	ug/l	91
78) n-propylbenzene	12.80	91	95344	4.916	ug/l	98
79) 2-Chlorotoluene	12.89	91	51874	4.733	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	69996	4.911	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	3246	3.723	ug/l #	81
82) 4-Chlorotoluene	12.99	91	56346	4.990	ug/l	96
83) tert-Butylbenzene	13.21	119	59317	4.733	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	72066	5.099	ug/l	99
85) sec-Butylbenzene	13.38	105	81574	4.718	ug/l	100
86) p-Isopropyltoluene	13.50	119	73928	4.610	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	39137	5.016	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	40035	5.159	ug/l	96
89) n-Butylbenzene	13.82	91	67488	4.665	ug/l	98
90) Hexachloroethane	14.09	117	11830	4.512	ug/l	95
91) 1,2-Dichlorobenzene	13.87	146	35345	5.156	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1793	4.017	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100119\
Data File : VW013367.D
Acq On : 01 Oct 2019 12:35
Operator : SY/VA
Sample : VSTDICC005
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

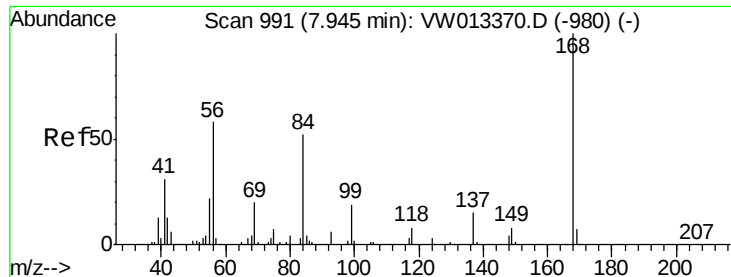
Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM

Quant Time: Oct 02 09:03:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 15:01:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	22828	4.769	ug/l	92
94) Hexachlorobutadiene	15.24	225	15972	4.952	ug/l	98
95) Naphthalene	15.37	128	35308	4.490	ug/l	96
96) 1,2,3-Trichlorobenzene	15.55	180	20732	4.952	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 370392

Ion Ratio Lower Upper

168 100

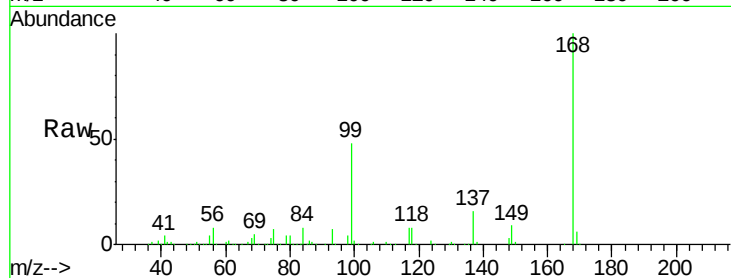
99 47.6 38.7 58.1

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

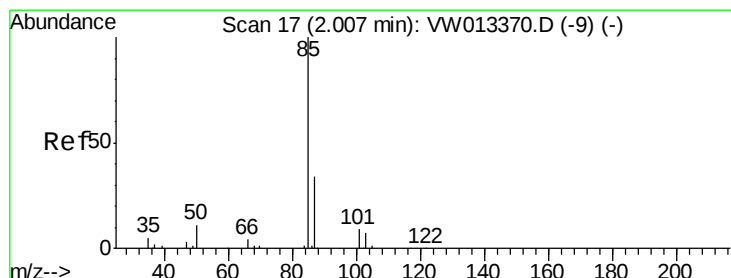
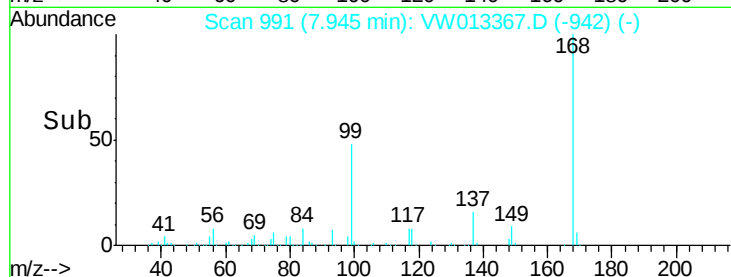
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 5.018 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013367.D

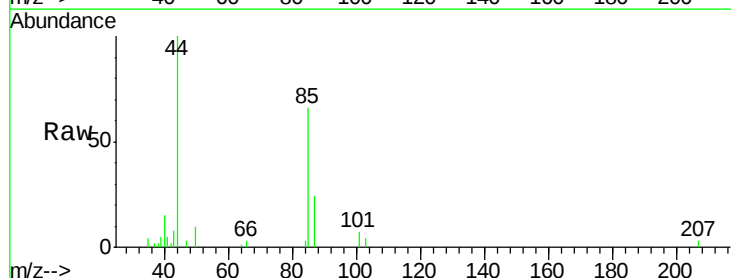
Acq: 01 Oct 2019 12:35

Tgt Ion: 85 Resp: 6980

Ion Ratio Lower Upper

85 100

87 36.1 17.3 51.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

2500

2000

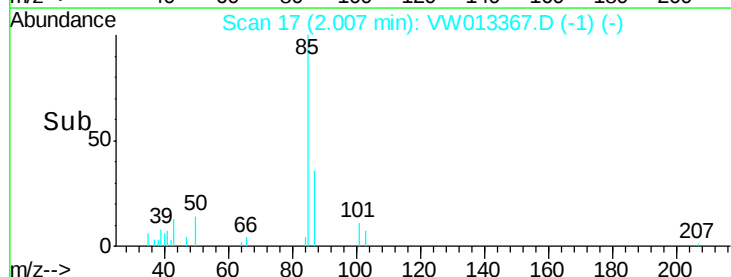
1500

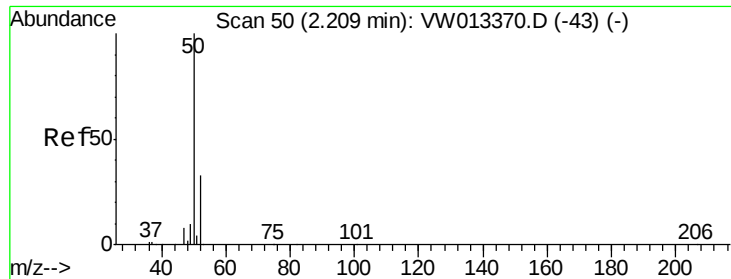
1000

500

0

Time--> 1.90 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 5.129 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 13486

Ion Ratio Lower Upper

50 100

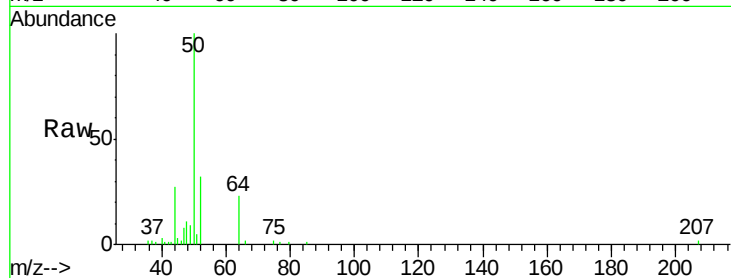
52 32.1 26.3 39.5

Manual Integrations

APPROVED

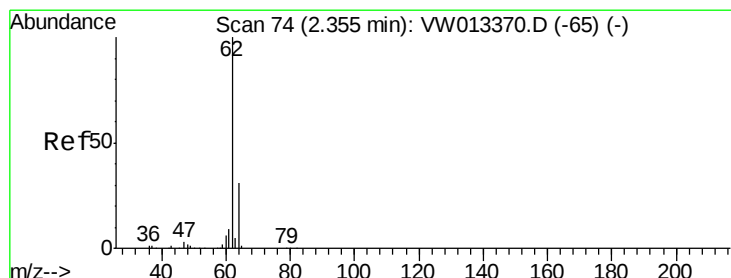
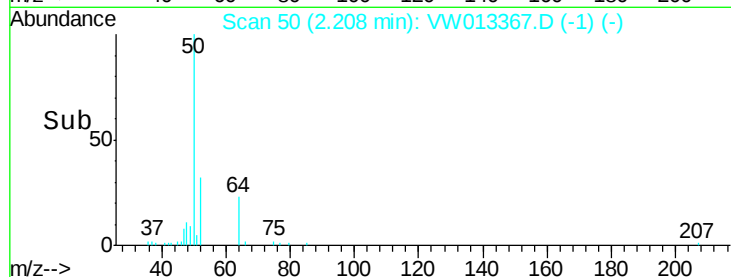
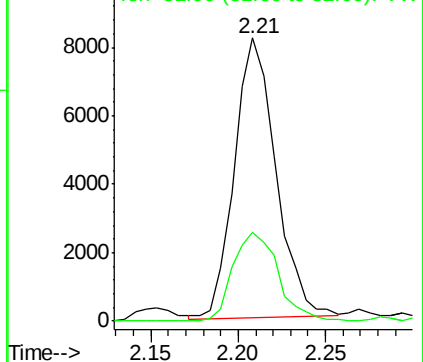
MMDadoda

10/14/2019 9:11:52 AM



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 5.223 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW013367.D

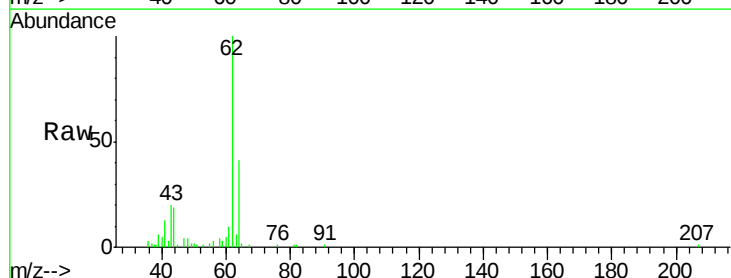
Acq: 01 Oct 2019 12:35

Tgt Ion: 62 Resp: 18254

Ion Ratio Lower Upper

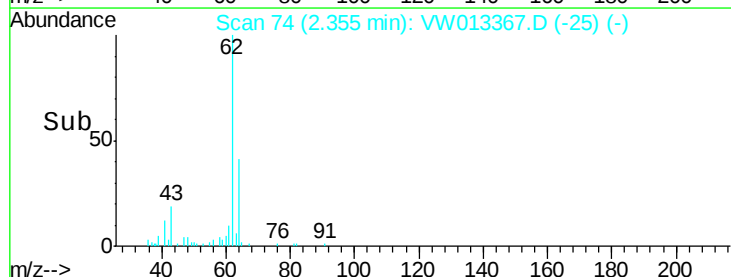
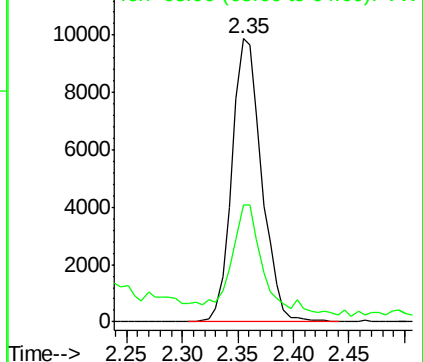
62 100

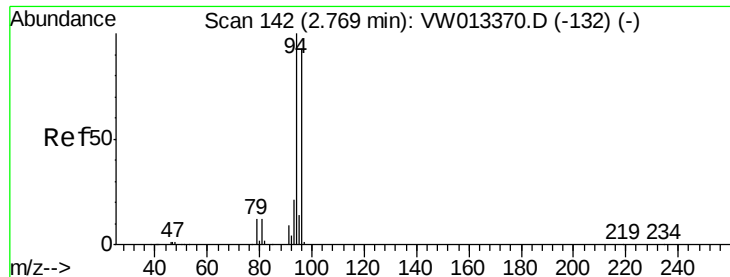
64 38.7 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 5.031 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 10811

Ion Ratio Lower Upper

94 100

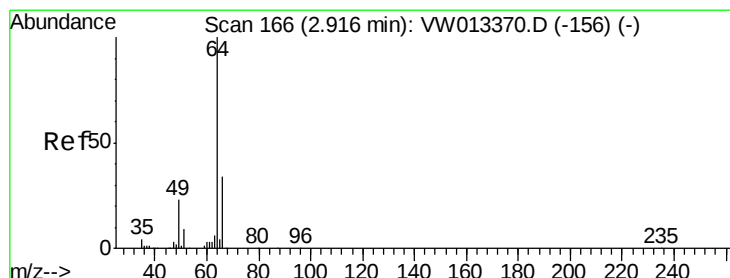
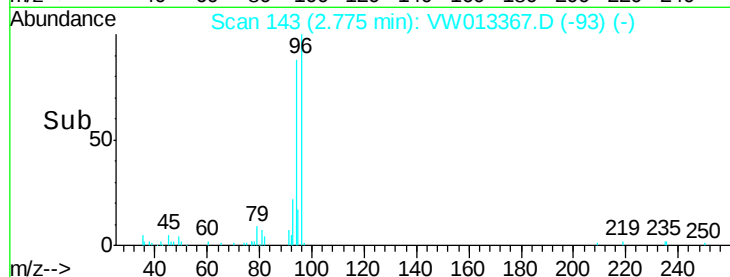
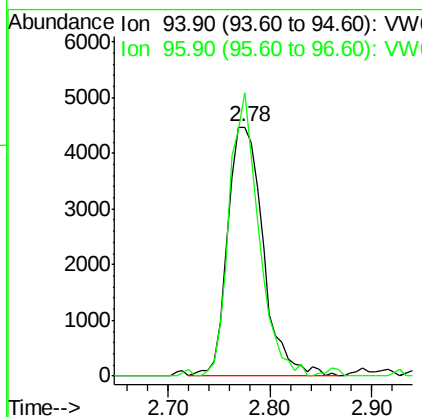
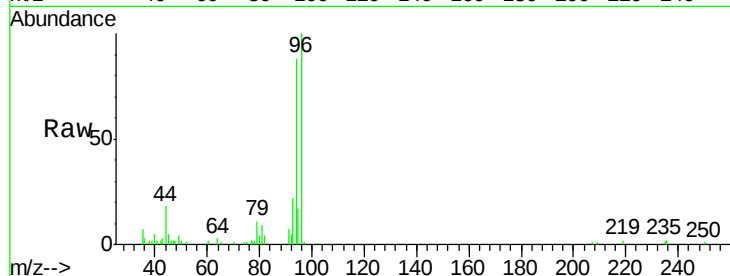
96 111.0 74.8 112.2

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#6

Chloroethane

Concen: 5.410 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW013367.D

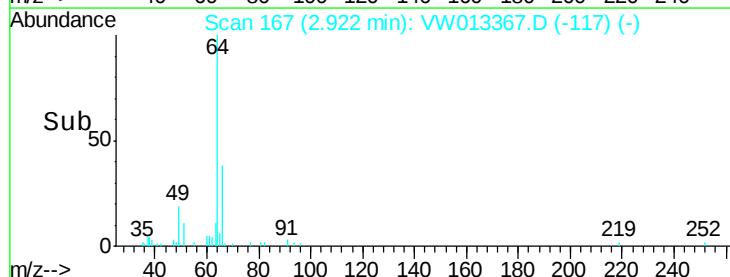
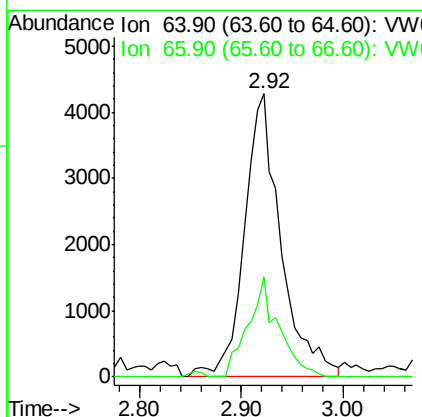
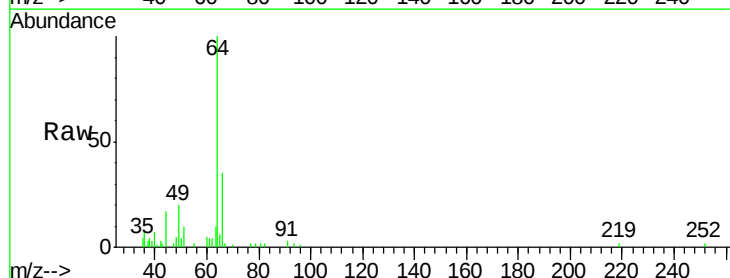
Acq: 01 Oct 2019 12:35

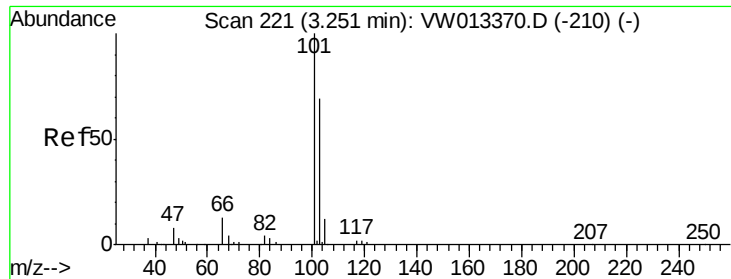
Tgt Ion: 64 Resp: 10675

Ion Ratio Lower Upper

64 100

66 35.3 26.9 40.3





#7

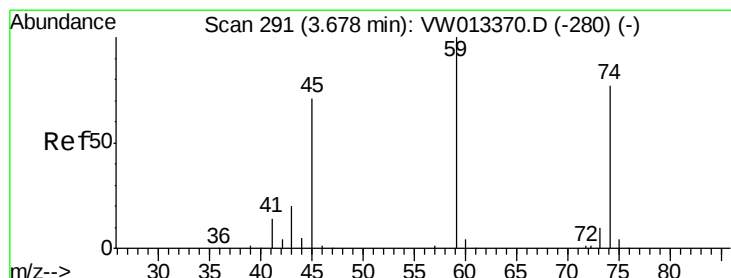
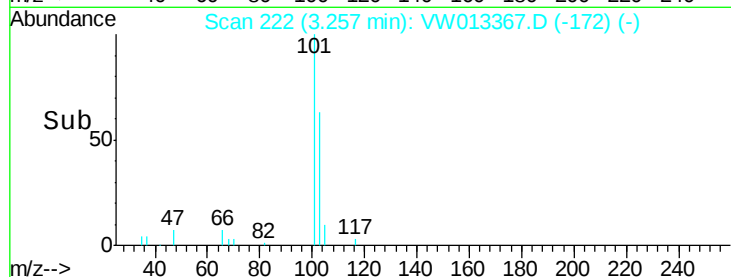
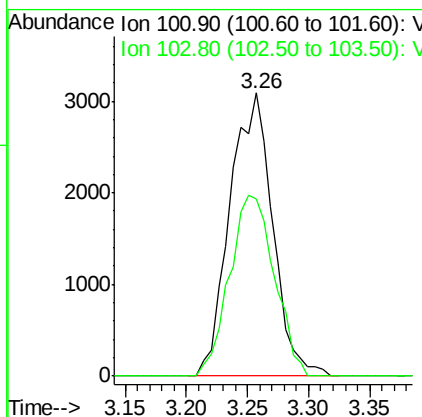
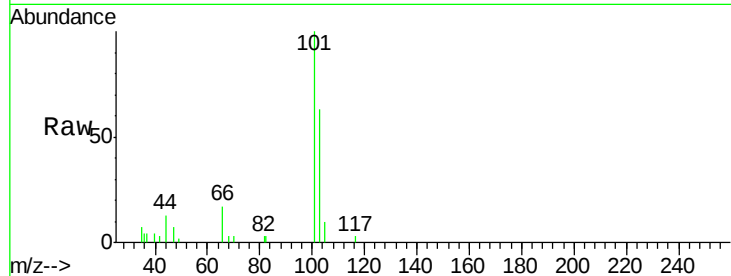
Trichlorofluoromethane
 Concen: 4.919 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.01 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.7	55.3	82.9

Manual Integrations
 APPROVED

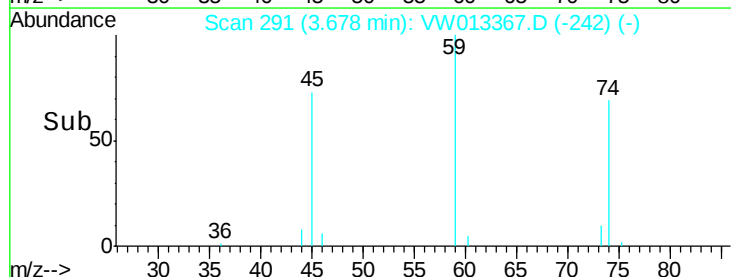
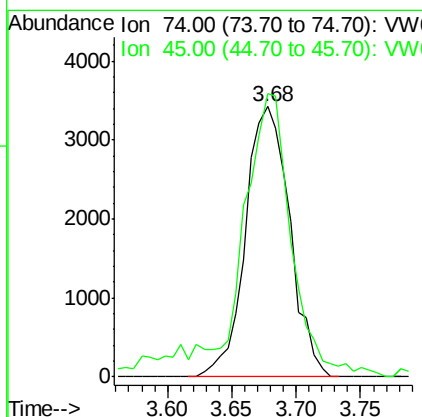
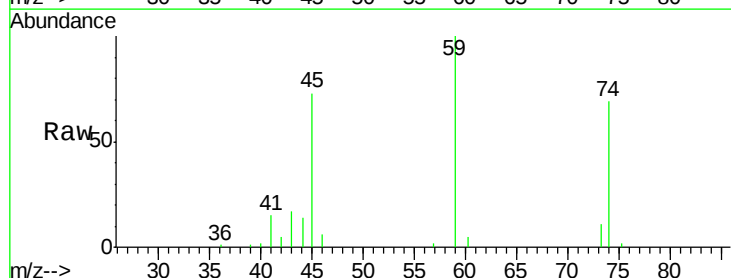
MMDadoda
 10/14/2019 9:11:52 AM

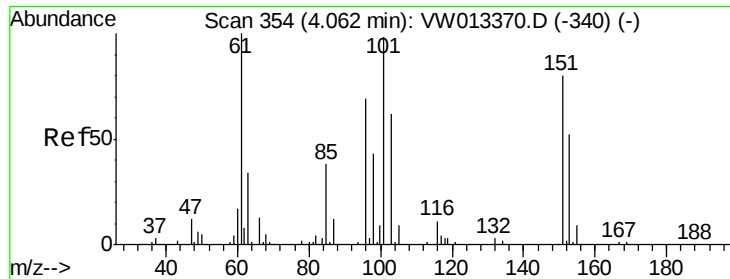


#8

Diethyl Ether
 Concen: 4.771 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.3	48.0	144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.191 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

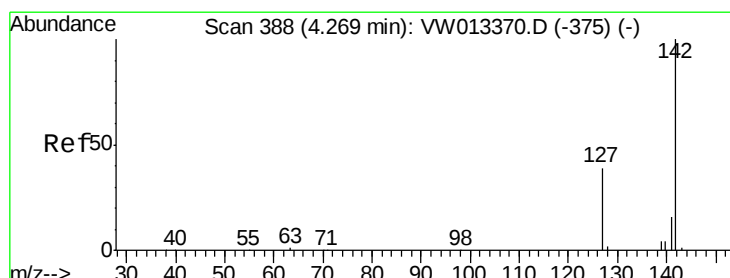
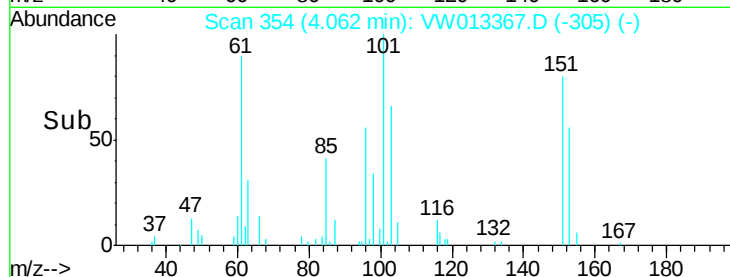
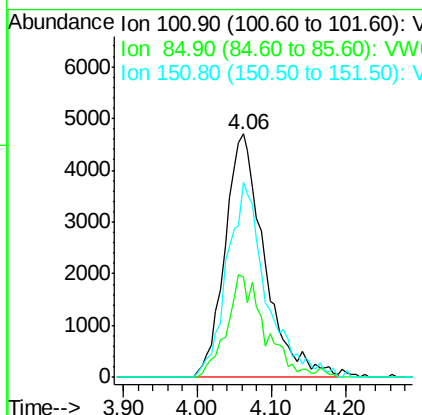
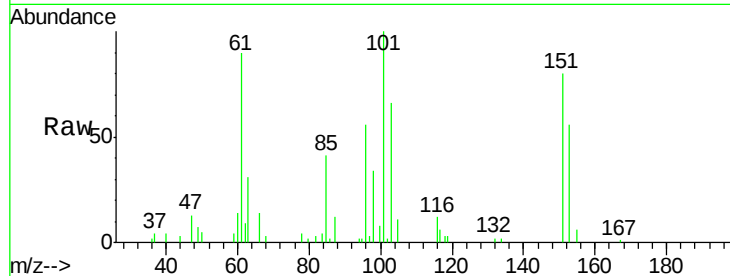
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
85	40.6	31.9	47.9
151	79.3	67.0	100.6

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM



#10

Methyl Iodide

Concen: 4.944 ug/l

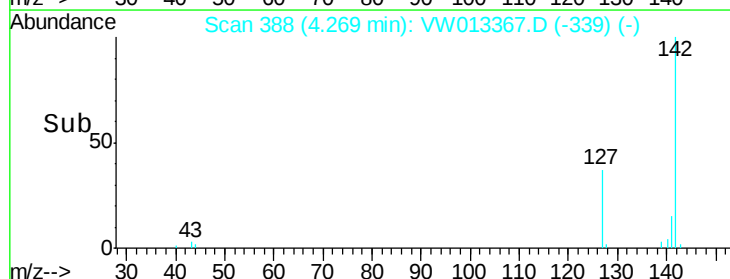
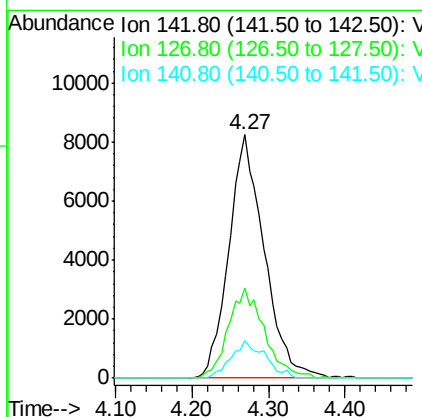
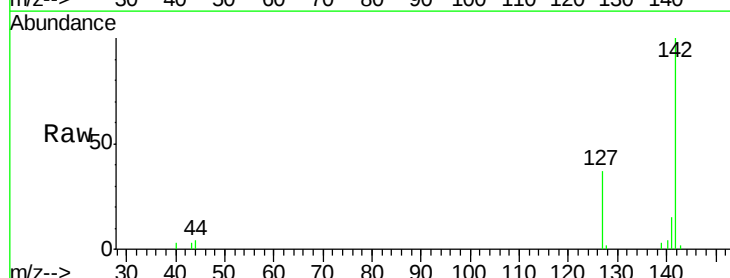
RT: 4.27 min Scan# 388

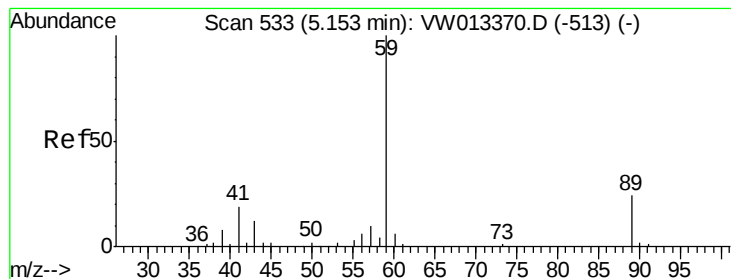
Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
142	100		
127	37.4	30.1	45.1
141	14.6	11.7	17.5





#11

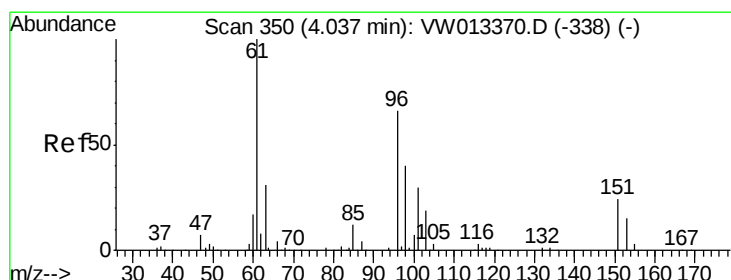
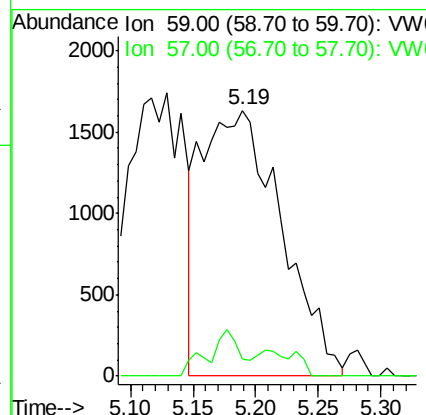
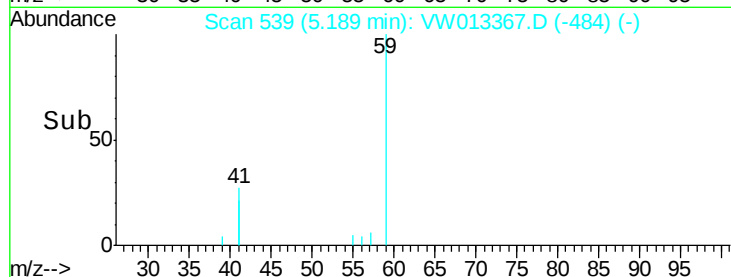
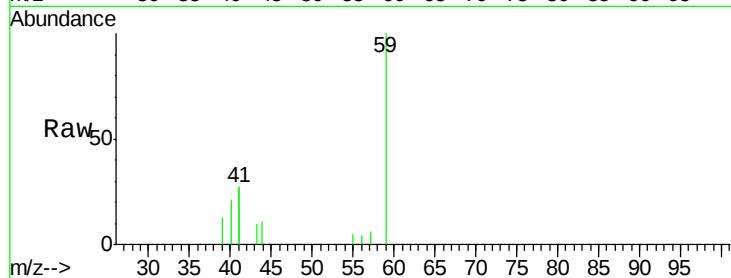
Tert butyl alcohol
 Concen: 12.204 ug/l m
 RT: 5.19 min Scan# 539
 Delta R.T. 0.04 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.1	10.7#

Manual Integrations
 APPROVED

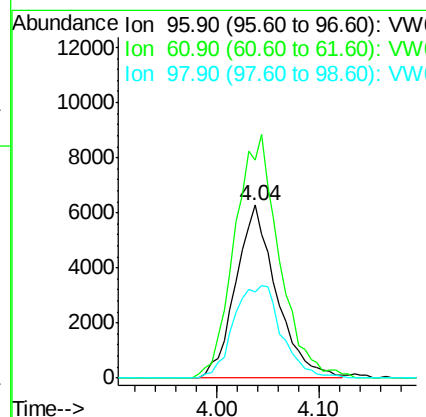
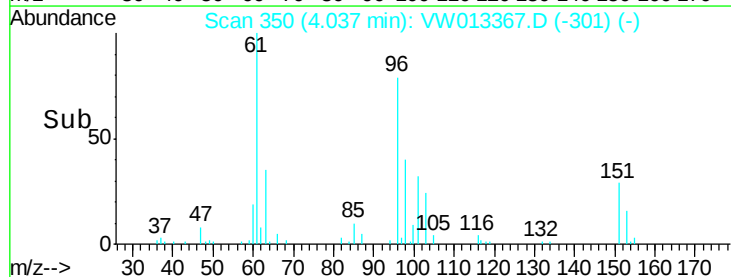
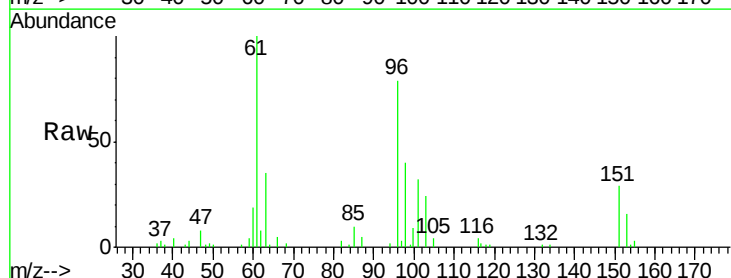
MMDadoda
 10/14/2019 9:11:52 AM

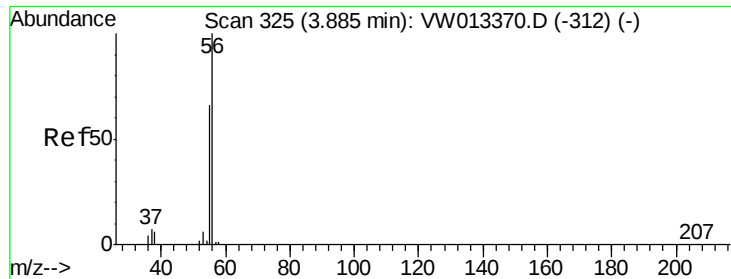


#12

1,1-Dichloroethene
 Concen: 4.952 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.1	121.4	182.2
98	50.1	48.9	73.3





#13

Acrolein

Concen: 7.589 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 1837

Ion Ratio Lower Upper

56 100

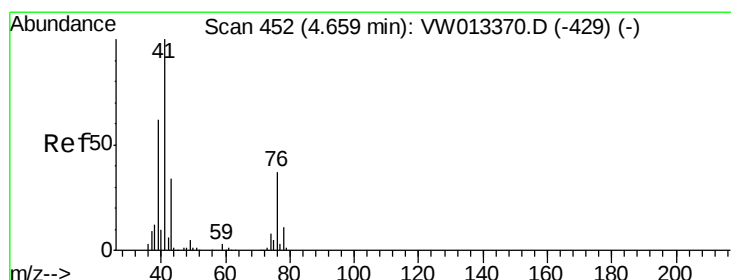
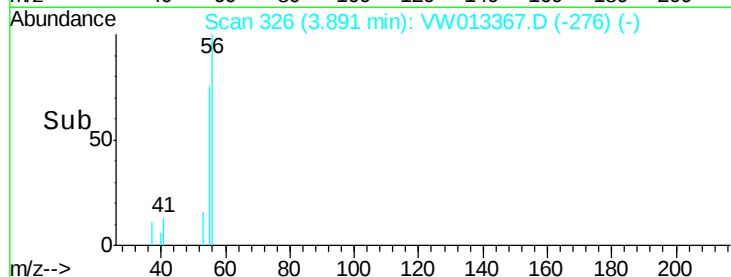
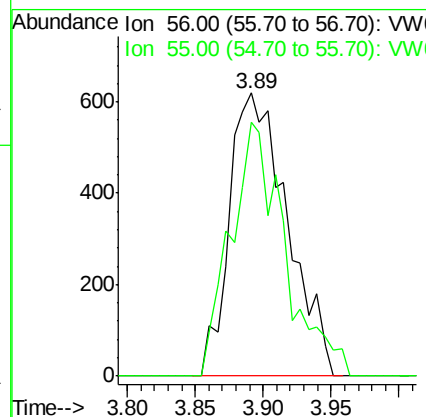
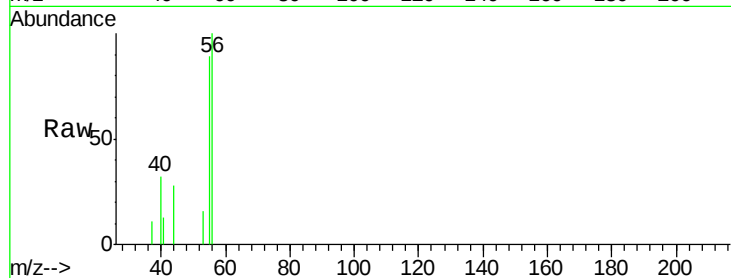
55 83.9 55.3 82.9#

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#14

Allyl chloride

Concen: 4.977 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

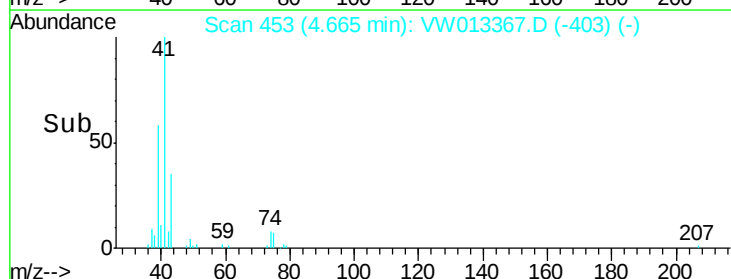
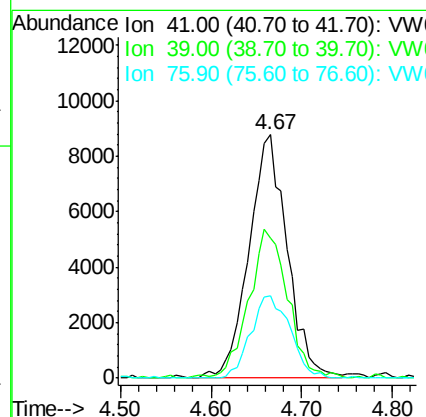
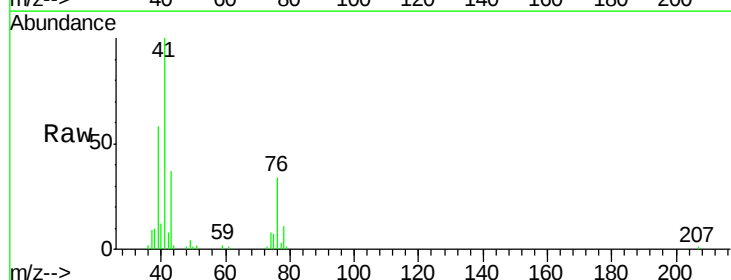
Tgt Ion: 41 Resp: 25640

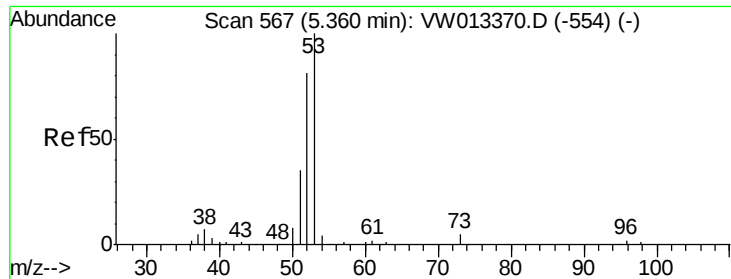
Ion Ratio Lower Upper

41 100

39 62.4 49.4 74.0

76 34.6 29.1 43.7





#15

Acrylonitrile

Concen: 22.352 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

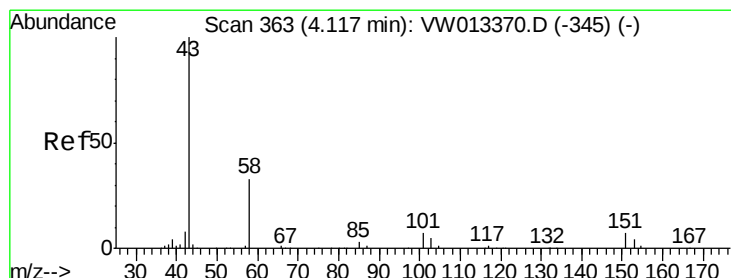
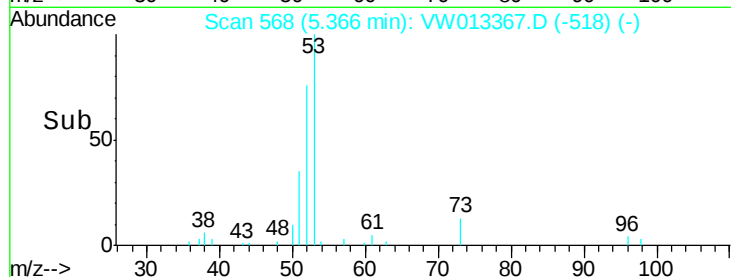
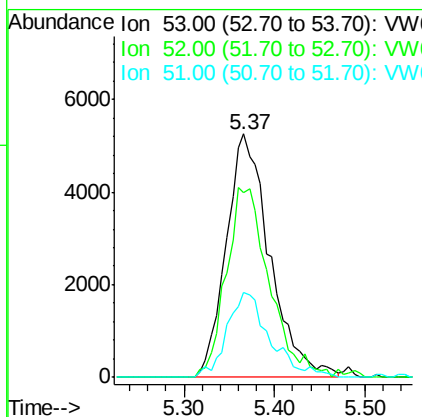
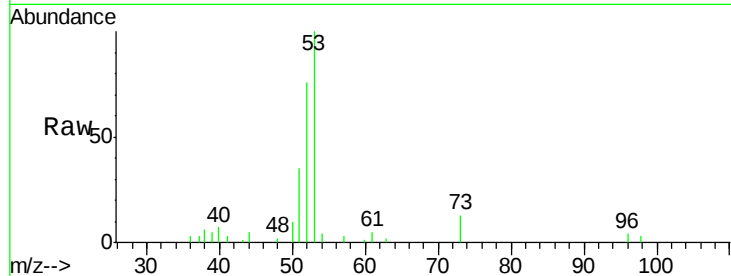
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	17527
Ion	Ratio	Lower	Upper
53	100		
52	77.1	65.8	98.8
51	33.0	28.7	43.1

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM



#16

Acetone

Concen: 27.756 ug/l

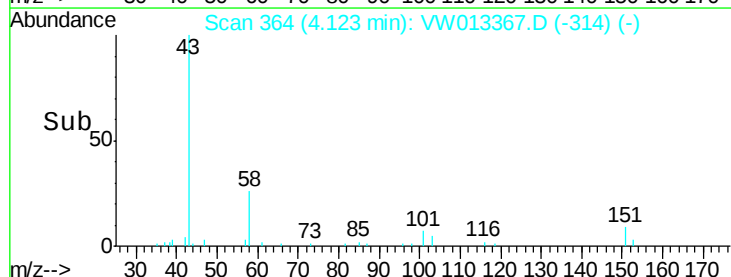
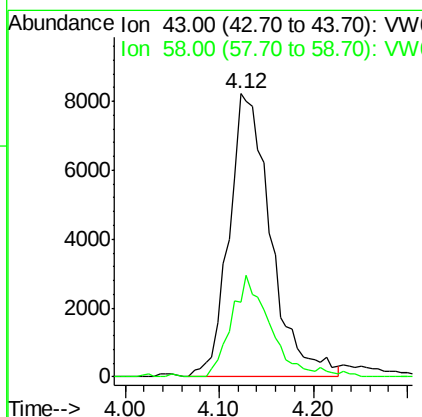
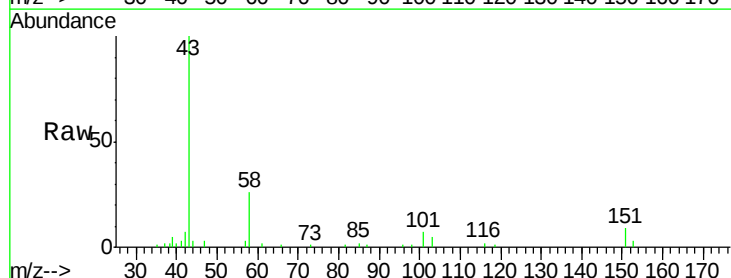
RT: 4.12 min Scan# 364

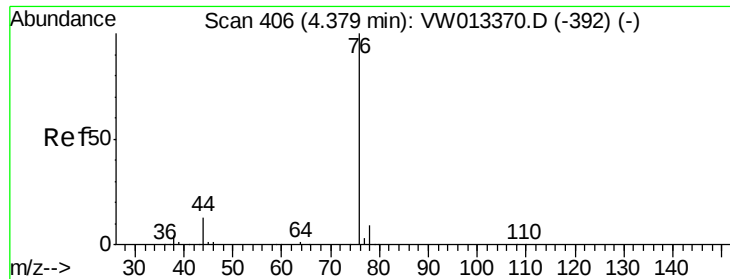
Delta R.T. 0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Tgt Ion:	43	Resp:	25320
Ion	Ratio	Lower	Upper
43	100		
58	26.5	26.2	39.4





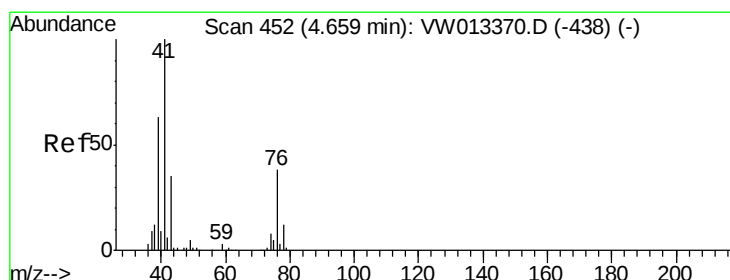
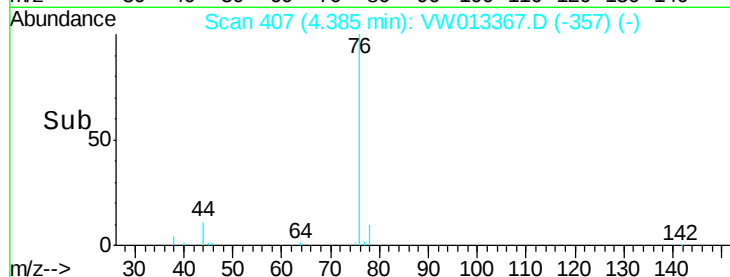
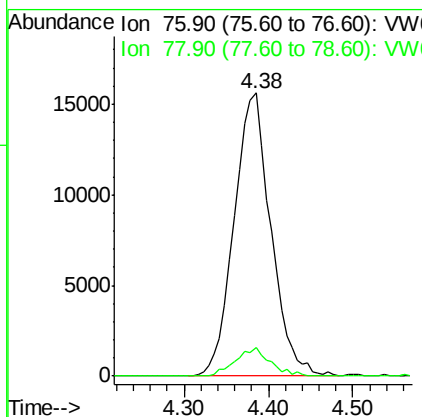
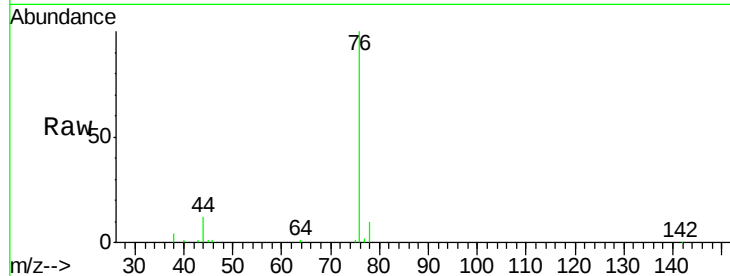
#17
Carbon Disulfide
Concen: 4.772 ug/l
RT: 4.38 min Scan# 407
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.3	10.9

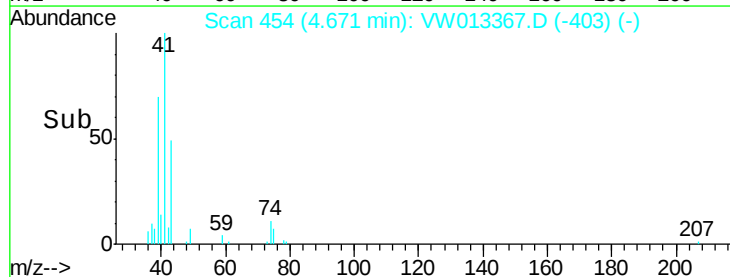
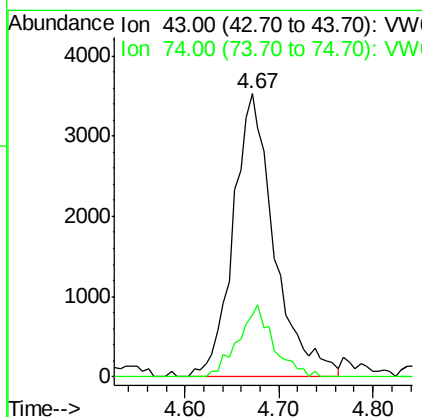
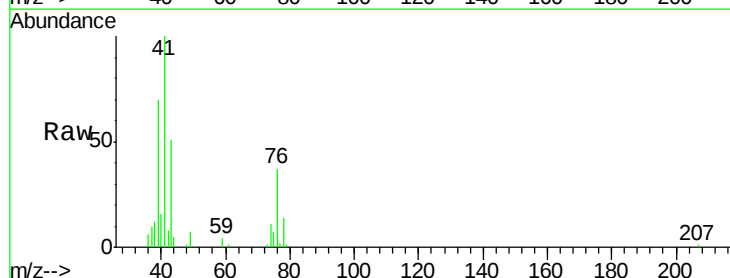
Manual Integrations
APPROVED

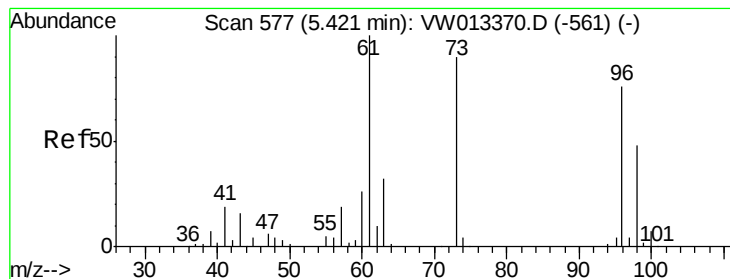
MMDadoda
10/14/2019 9:11:52 AM



#18
Methyl Acetate
Concen: 5.187 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.7	20.8	31.2





#19

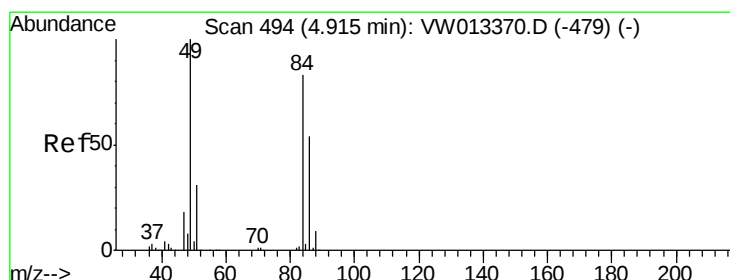
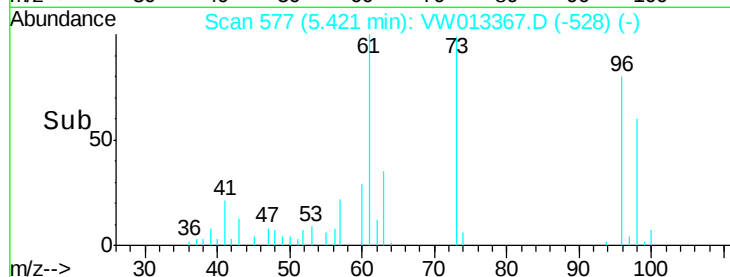
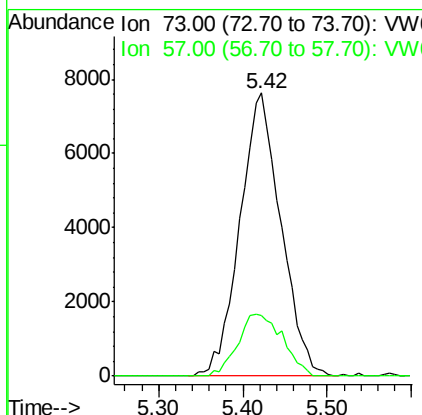
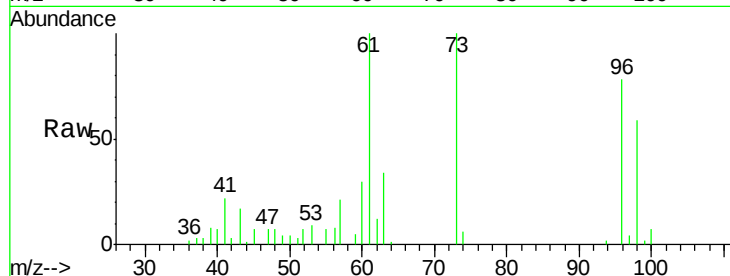
Methyl tert-butyl Ether
 Concen: 4.880 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

Manual Integrations
 APPROVED

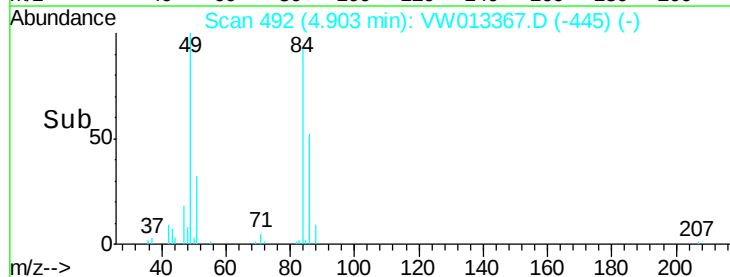
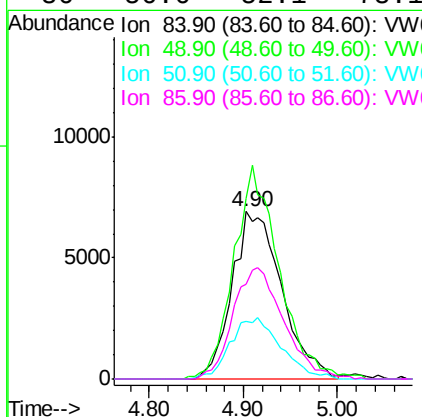
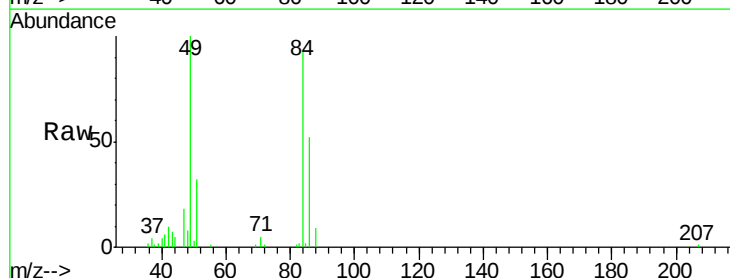
MMDadoda
 10/14/2019 9:11:52 AM

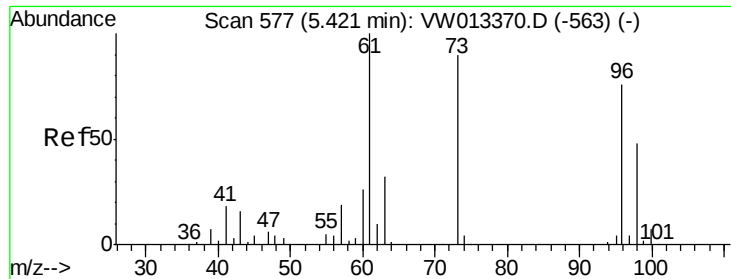


#20

Methylene Chloride
 Concen: 5.542 ug/l
 RT: 4.90 min Scan# 492
 Delta R.T. -0.01 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	106.4	96.3	144.5
51	34.7	30.2	45.4
86	56.6	52.1	78.1





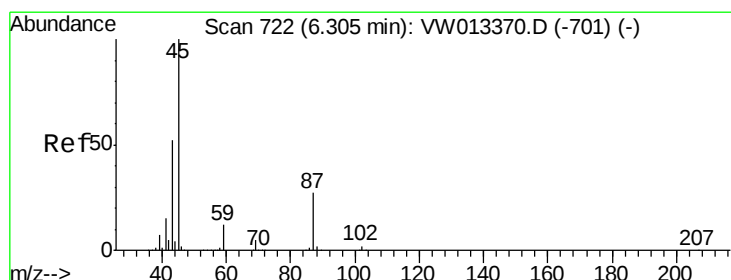
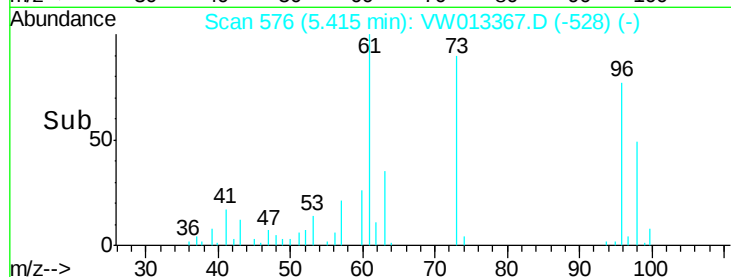
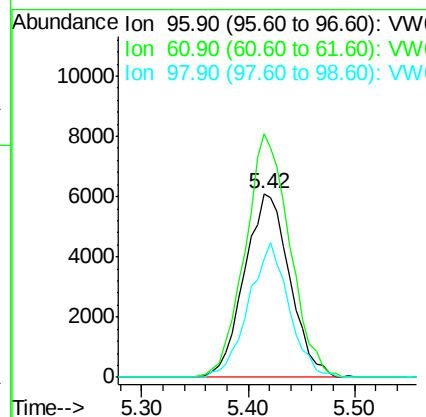
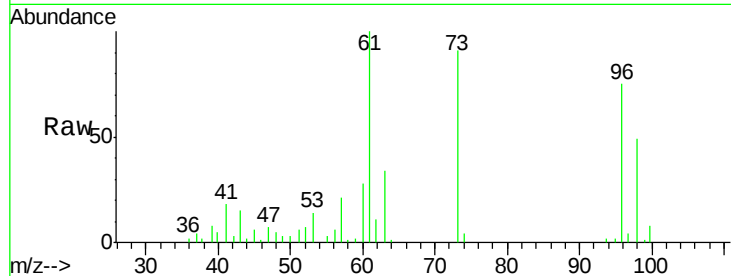
#21
trans-1,2-Dichloroethene
Concen: 4.891 ug/l
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.6	105.4	158.0
98	64.4	50.6	76.0

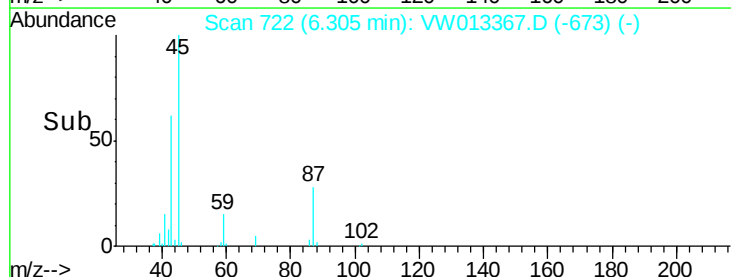
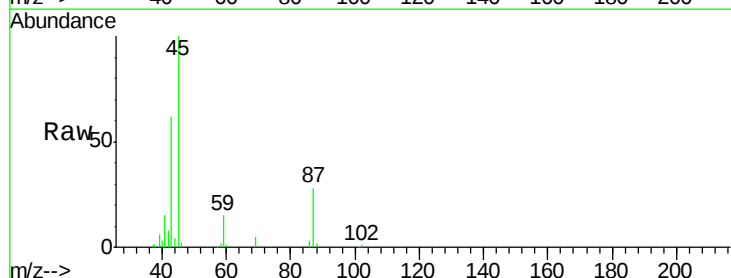
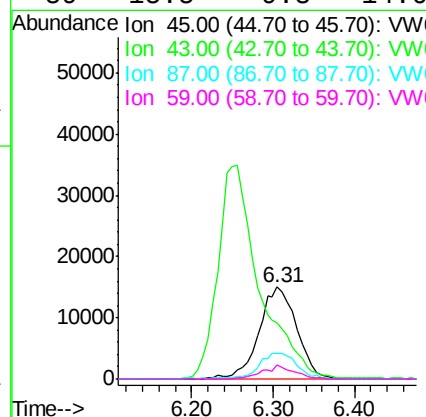
Manual Integrations
APPROVED

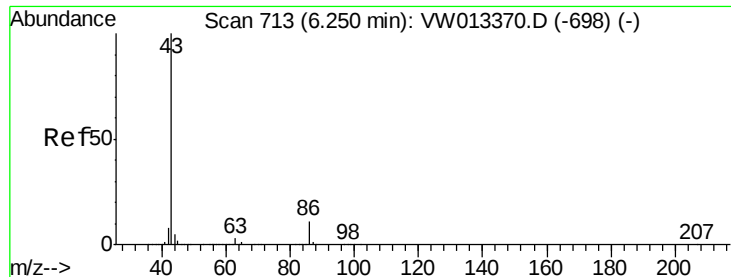
MMDadoda
10/14/2019 9:11:52 AM



#22
Diisopropyl ether
Concen: 4.824 ug/l
RT: 6.31 min Scan# 722
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.1	41.3	61.9
87	27.8	22.1	33.1
59	15.5	9.8	14.6





#23

Vinyl Acetate

Concen: 20.777 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 123595

Ion Ratio Lower Upper

43 100

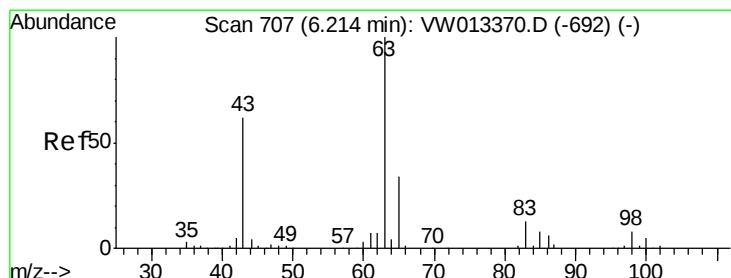
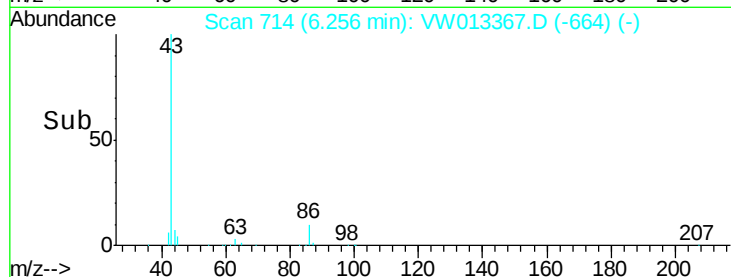
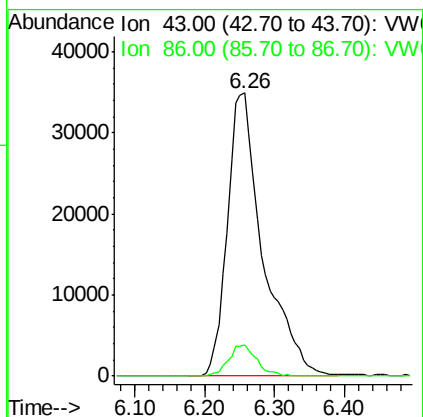
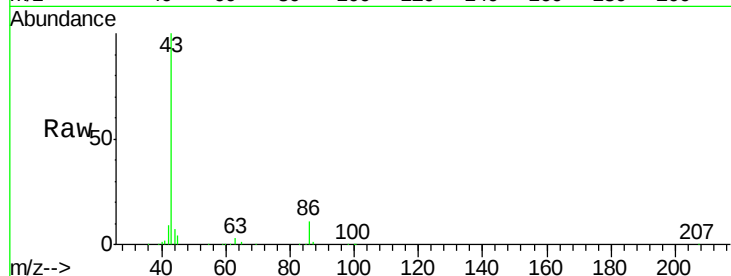
86 10.9 8.8 13.2

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#24

1,1-Dichloroethane

Concen: 4.798 ug/l

RT: 6.20 min Scan# 705

Delta R.T. -0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

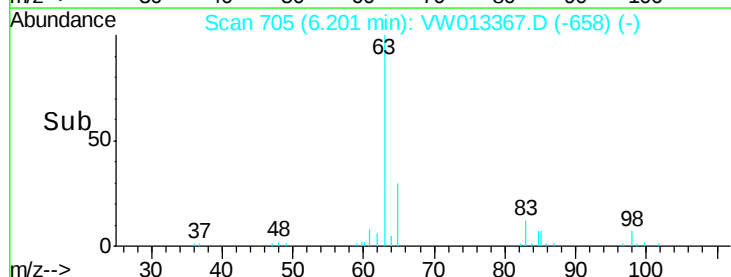
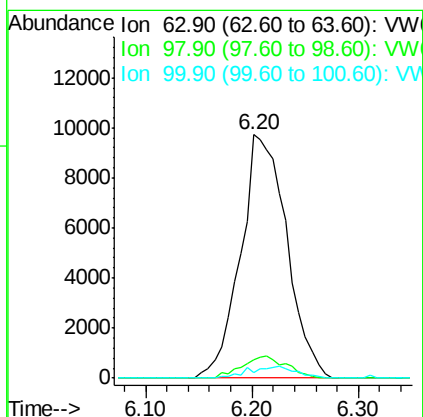
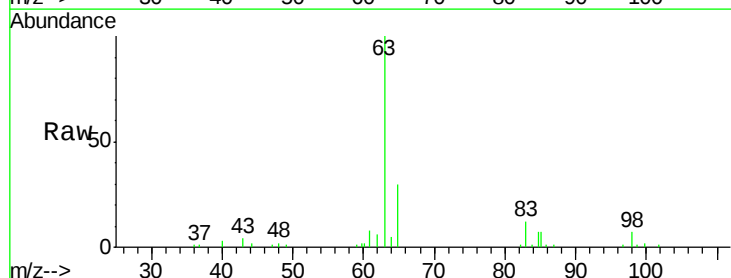
Tgt Ion: 63 Resp: 29482

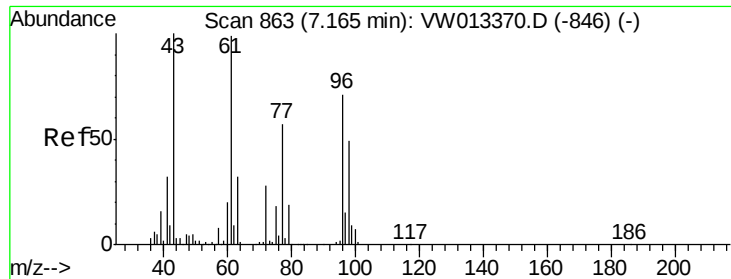
Ion Ratio Lower Upper

63 100

98 7.3 4.0 12.2

100 2.4 2.3 6.9





#25

2-Butanone

Concen: 22.107 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 25369

Ion Ratio Lower Upper

43 100

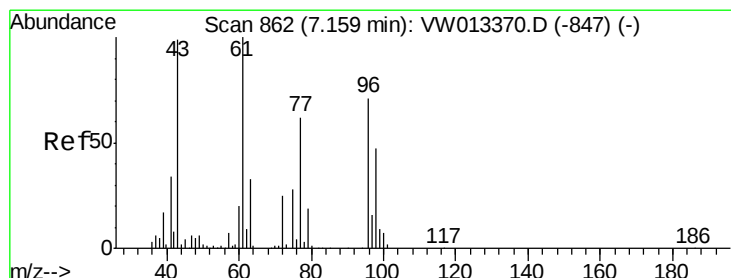
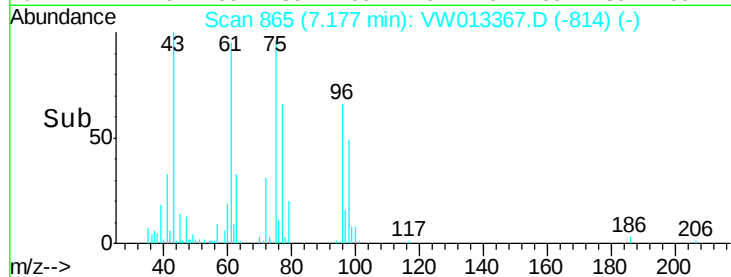
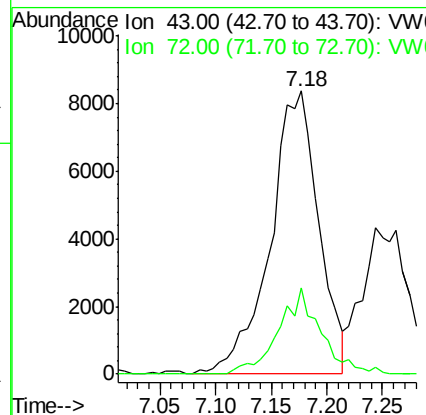
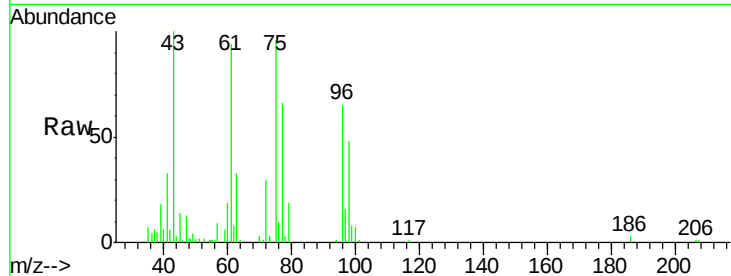
72 30.4 22.6 33.8

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#26

2,2-Dichloropropane

Concen: 5.546 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.00 min

Lab File: VW013367.D

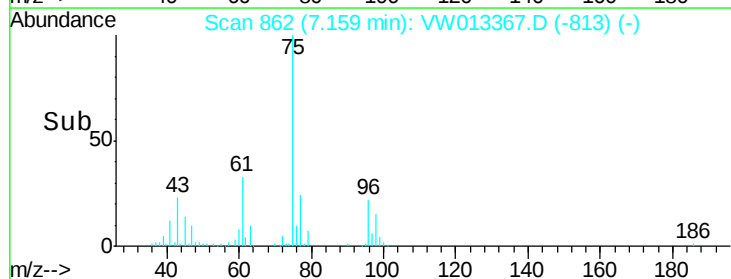
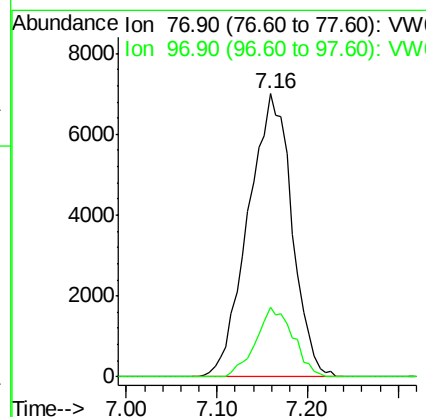
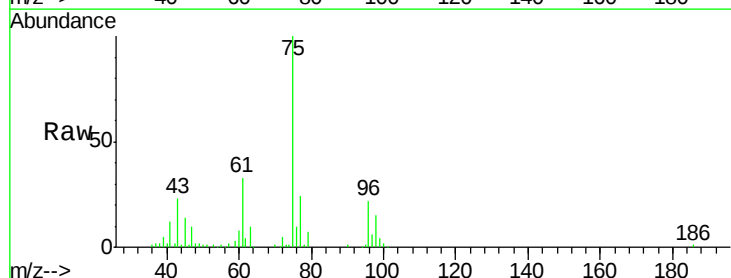
Acq: 01 Oct 2019 12:35

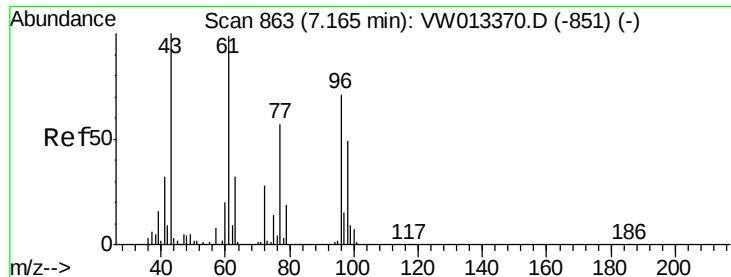
Tgt Ion: 77 Resp: 23400

Ion Ratio Lower Upper

77 100

97 20.9 12.3 36.8





#27

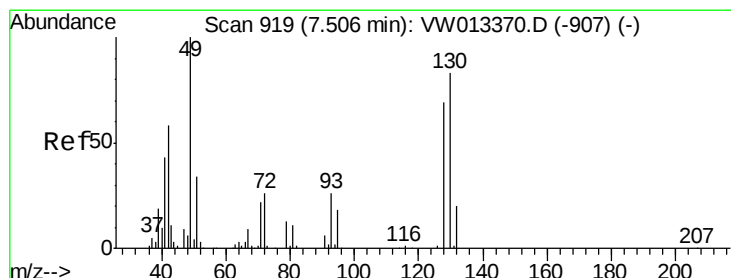
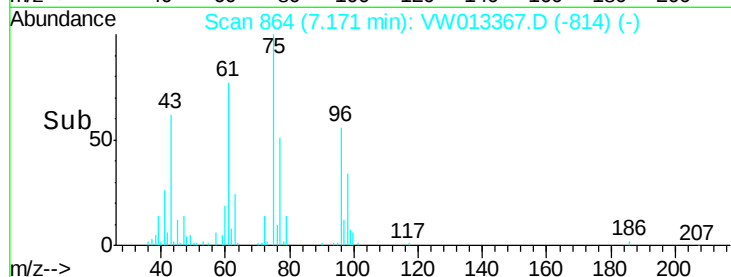
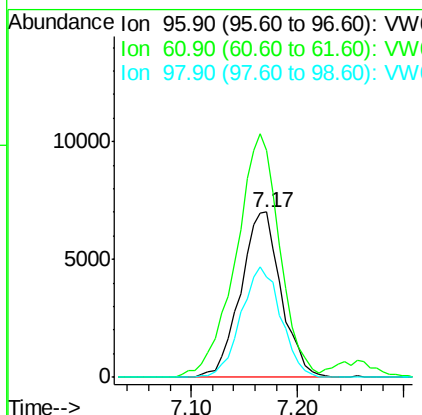
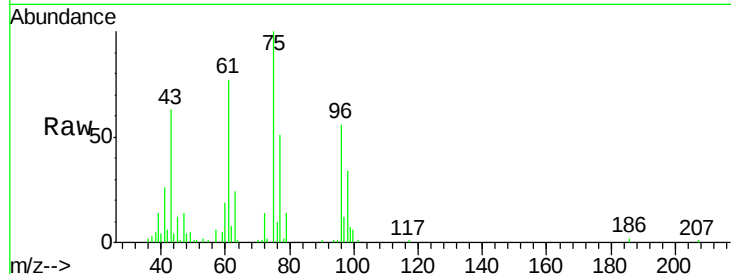
cis-1,2-Dichloroethene
Concen: 4.783 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
96	100	18737		
61	158.6	0.0	273.2	
98	65.4	0.0	130.0	

Manual Integrations
APPROVED

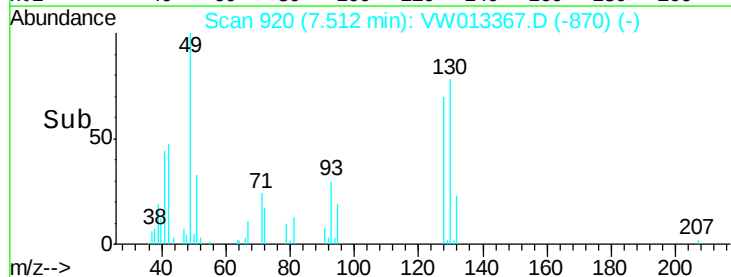
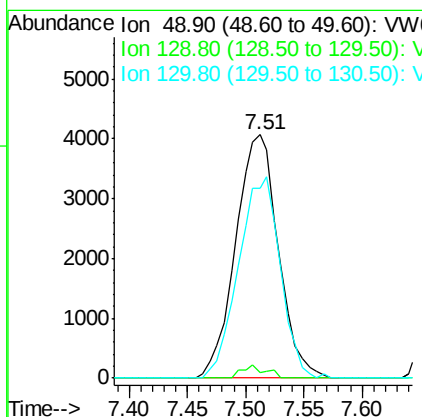
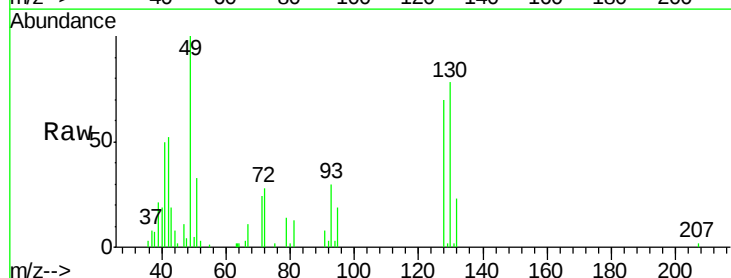
MMDadoda
10/14/2019 9:11:52 AM

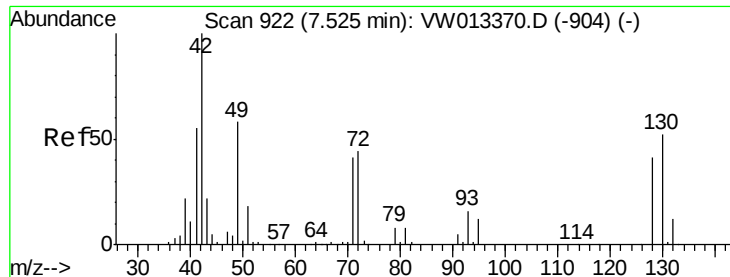


#28

Bromochloromethane
Concen: 4.923 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	10401		
129	2.9	0.0	0.8#	
130	80.5	68.3	102.5	





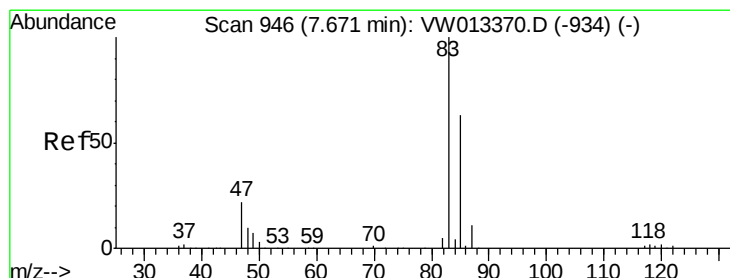
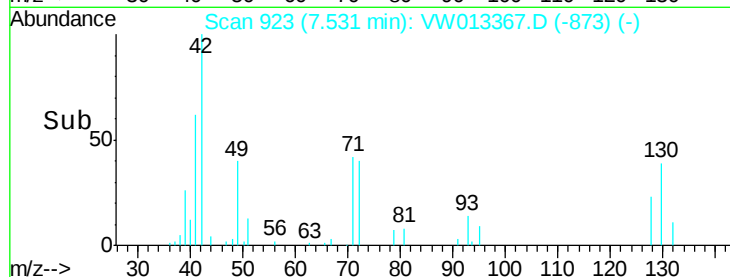
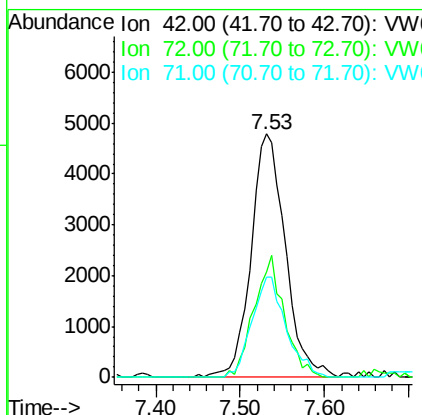
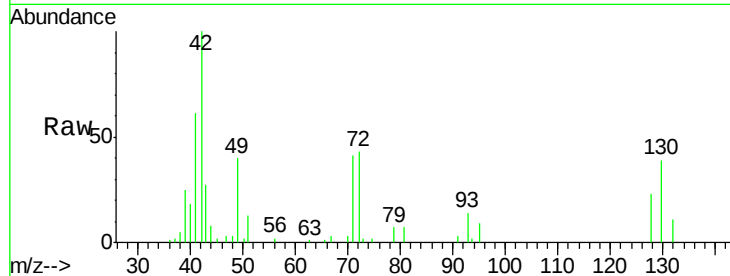
#29
Tetrahydrofuran
Concen: 20.013 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.0	52.4
71	41.0	33.1	49.7

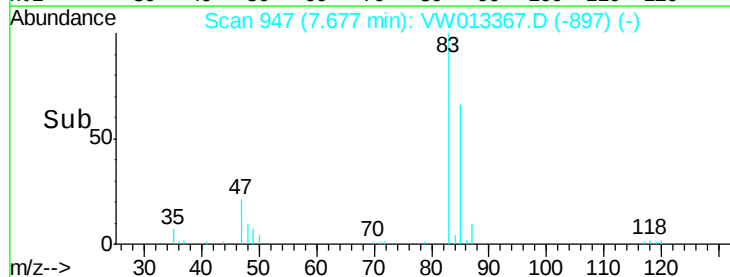
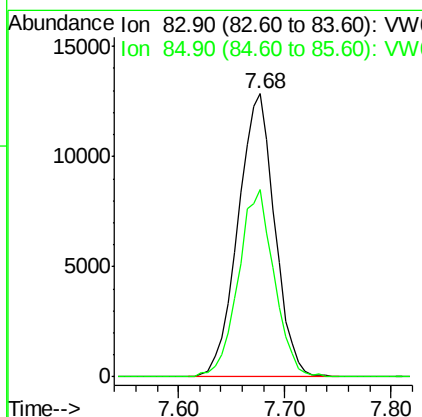
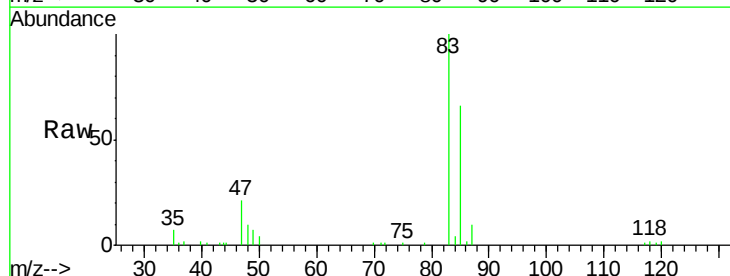
Manual Integrations
APPROVED

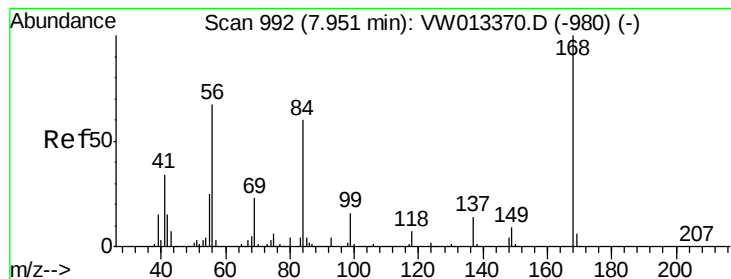
MMDadoda
10/14/2019 9:11:52 AM



#30
Chloroform
Concen: 5.174 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	50.6	76.0





#31

Cyclohexane

Concen: 5.347 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 36014

Ion Ratio Lower Upper

56 100

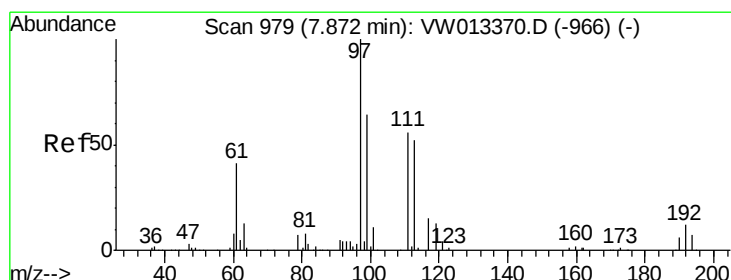
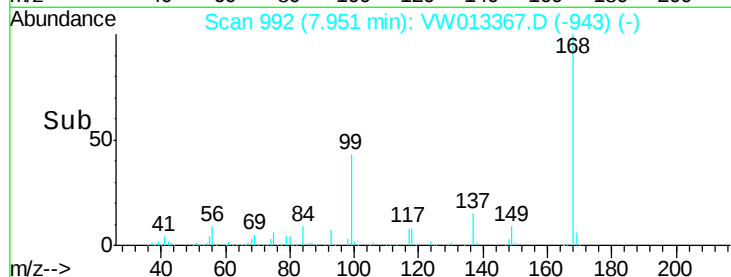
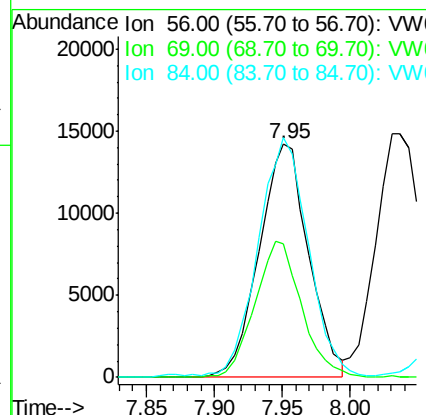
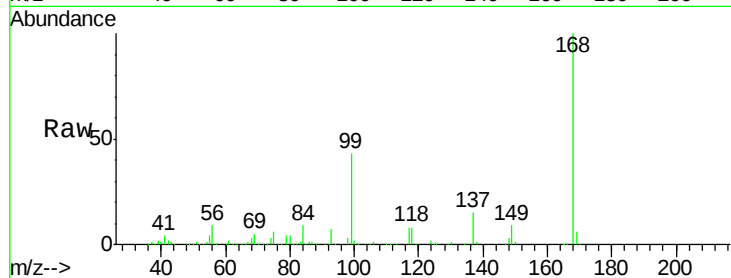
69 57.2 27.5 41.3#

84 101.3 71.4 107.0

Manual Integrations
APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#32

1,1,1-Trichloroethane

Concen: 4.853 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

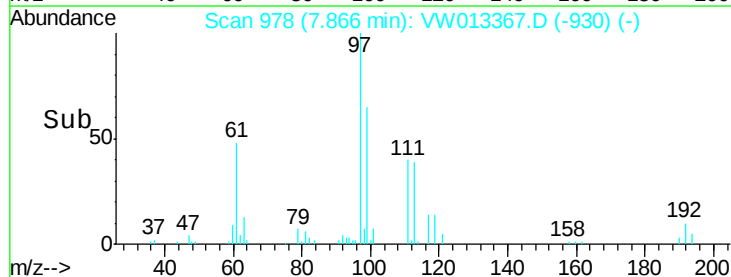
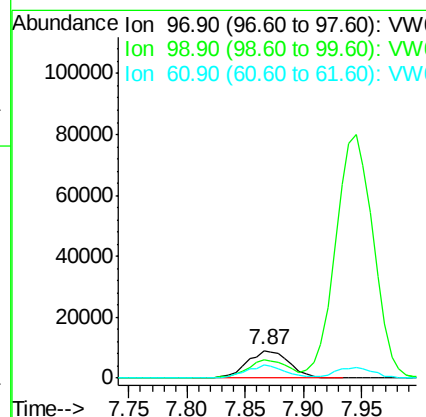
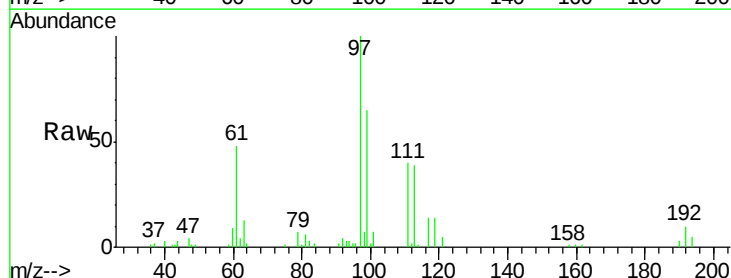
Tgt Ion: 97 Resp: 22840

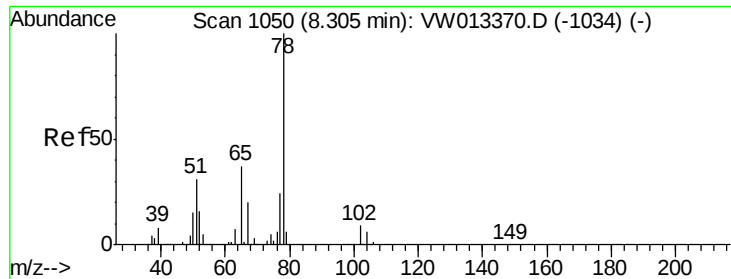
Ion Ratio Lower Upper

97 100

99 64.0 51.6 77.4

61 44.5 33.0 49.4





#33

1,2-Dichloroethane-d4

Concen: 5.086 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 14368

Ion Ratio Lower Upper

65 100

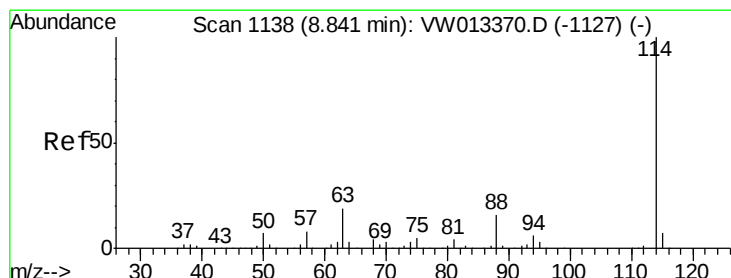
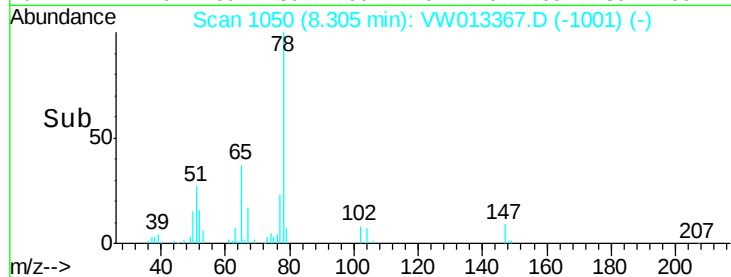
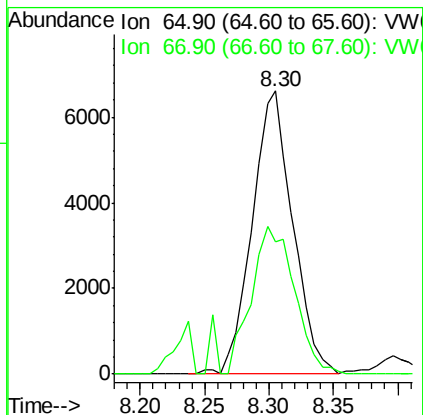
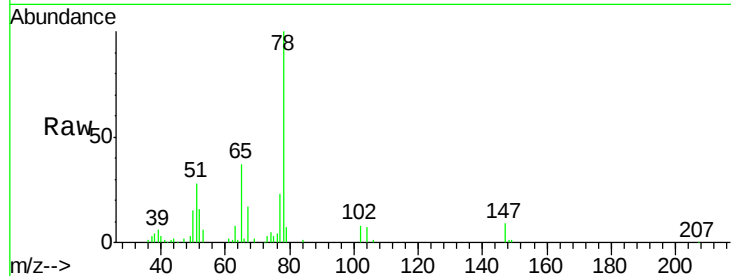
67 55.8 0.0 109.0

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

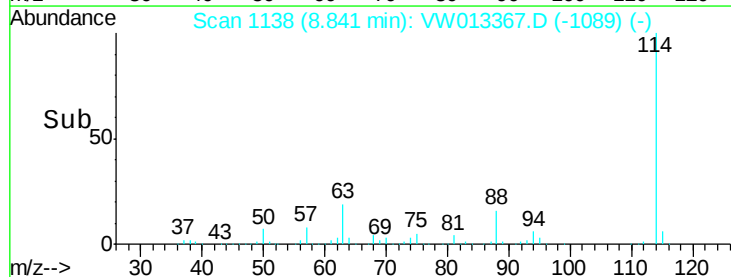
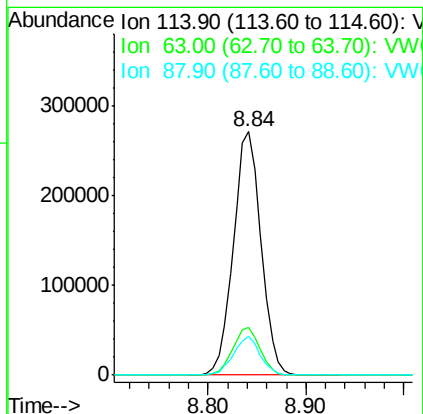
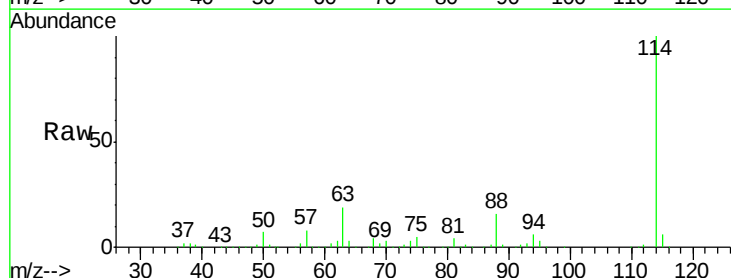
Tgt Ion: 114 Resp: 530816

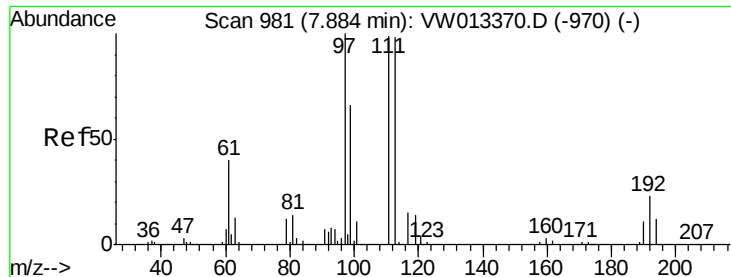
Ion Ratio Lower Upper

114 100

63 19.5 0.0 37.4

88 15.7 0.0 31.2





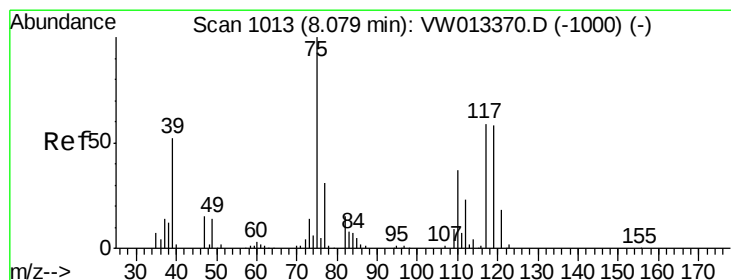
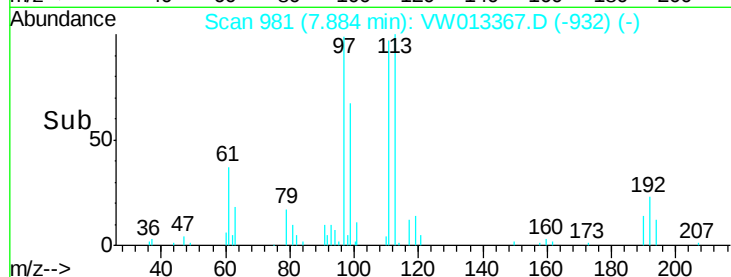
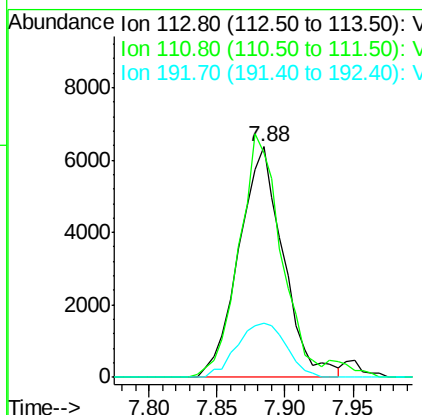
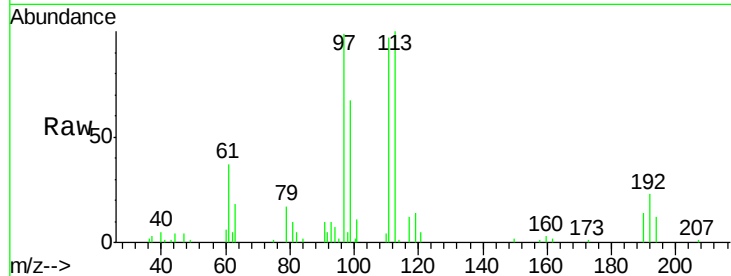
#35
Dibromofluoromethane
Concen: 5.079 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	80.9	121.3
192	26.1	19.1	28.7

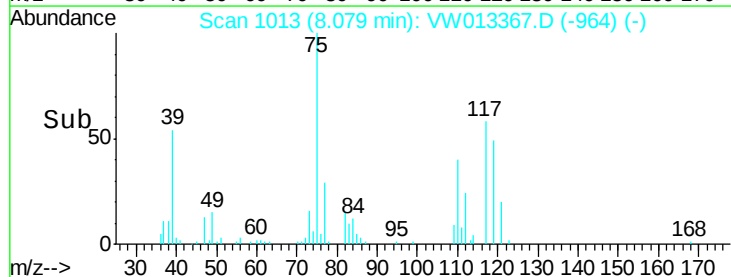
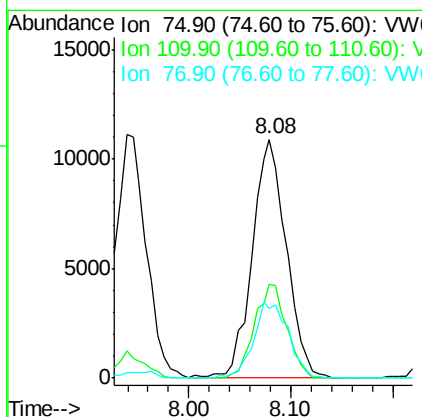
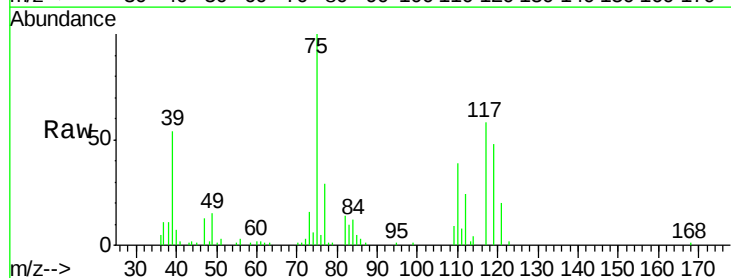
Manual Integrations
APPROVED

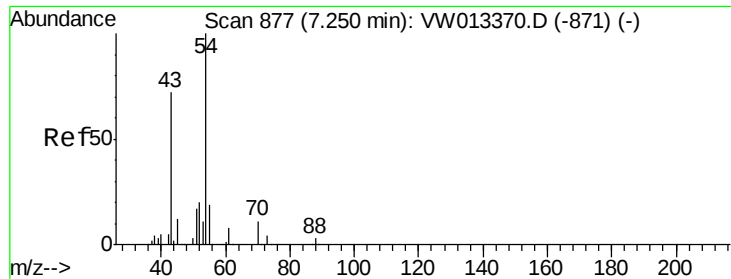
MMDadoda
10/14/2019 9:11:52 AM



#36
1,1-Dichloropropene
Concen: 4.939 ug/l
RT: 8.08 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.9	17.9	53.8
77	32.4	25.0	37.4





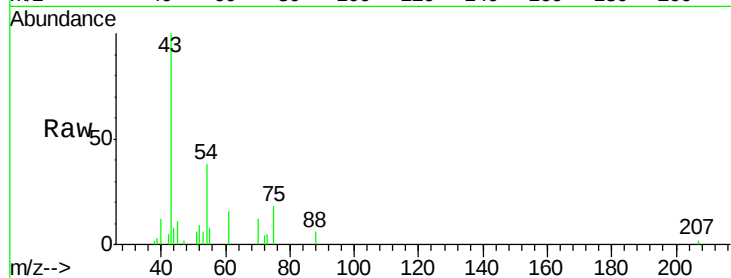
#37
Ethyl Acetate
Concen: 4.527 ug/l
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

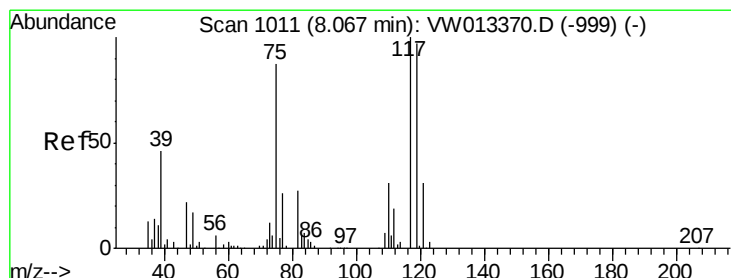
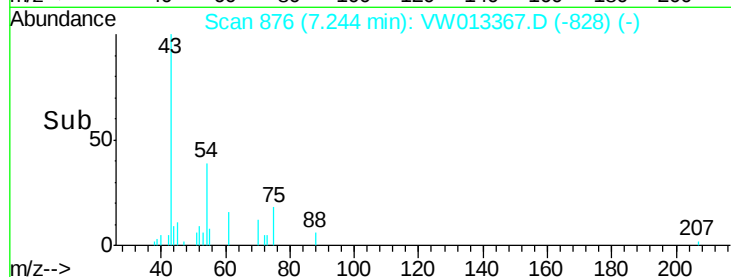
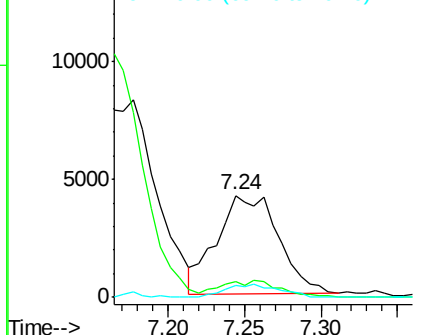
Tot Ion	Ratio	Lower	Upper
43	100		
61	16.6	11.4	17.2
70	11.5	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM

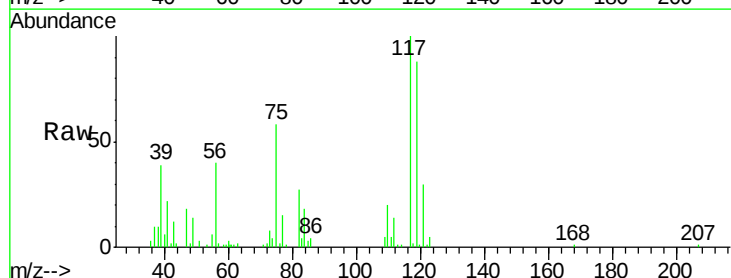


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW

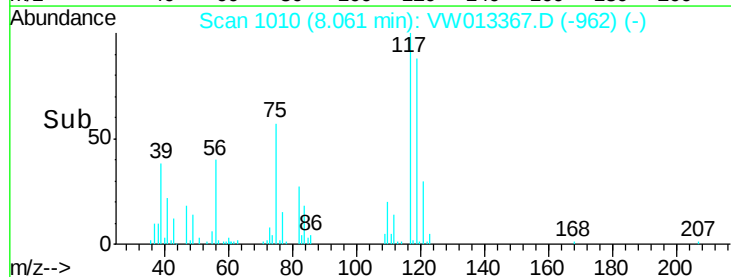
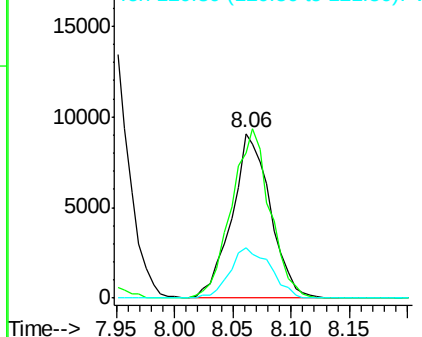


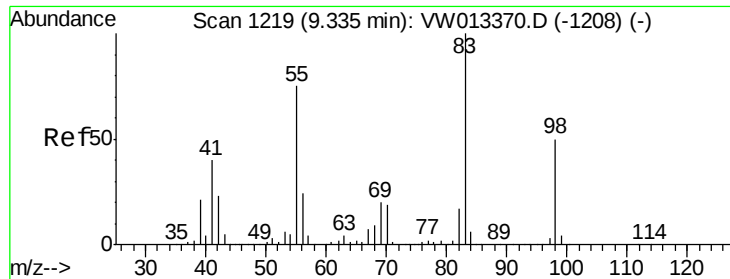
#38
Carbon Tetrachloride
Concen: 4.745 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.5	77.3	115.9
121	30.4	24.7	37.1



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





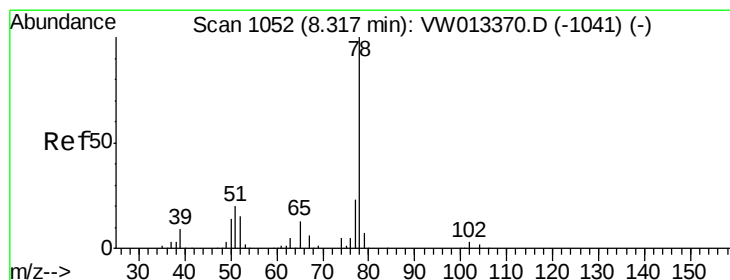
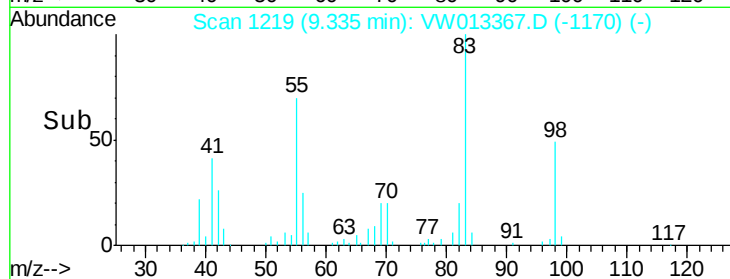
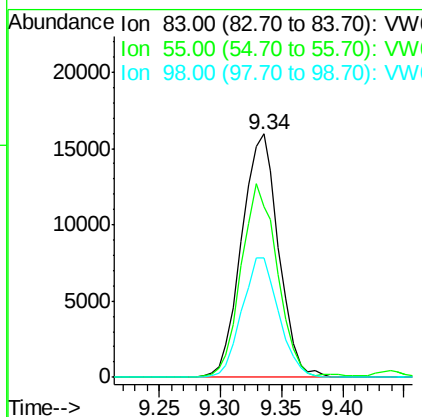
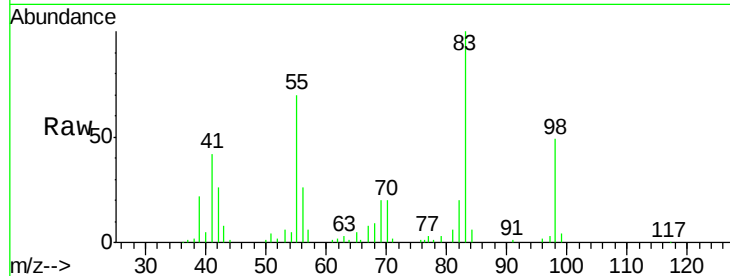
#39
Methvlcvclohexane
Concen: 4.960 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	33438
Ion Ratio	100	Lower	Upper
83	100		
55	70.0	59.9	89.9
98	49.2	40.3	60.5

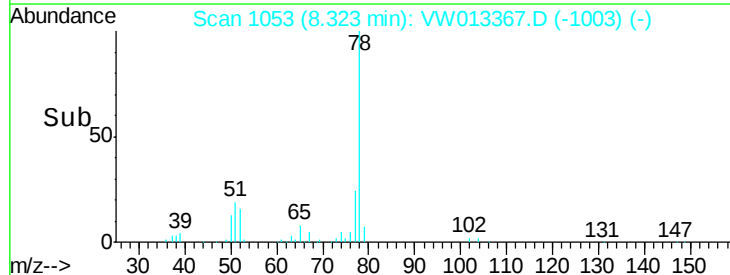
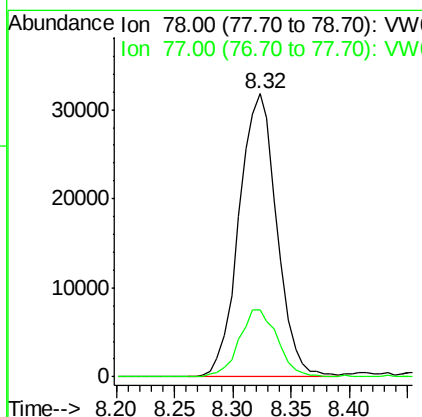
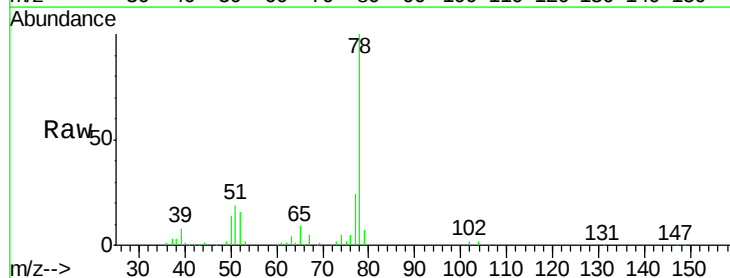
Manual Integrations
APPROVED

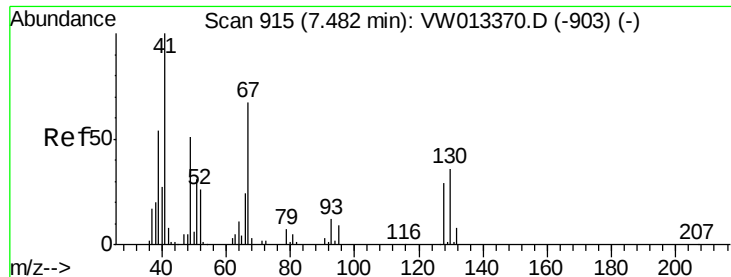
MMDadoda
10/14/2019 9:11:52 AM



#40
Benzene
Concen: 4.946 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	78	Resp	71847
Ion Ratio	100	Lower	Upper
78	100		
77	23.9	18.4	27.6





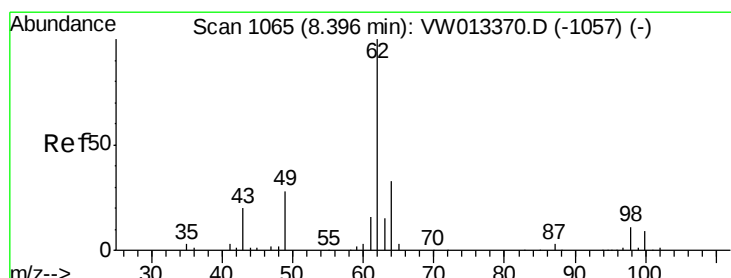
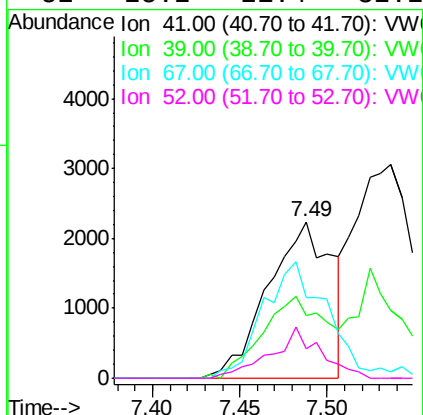
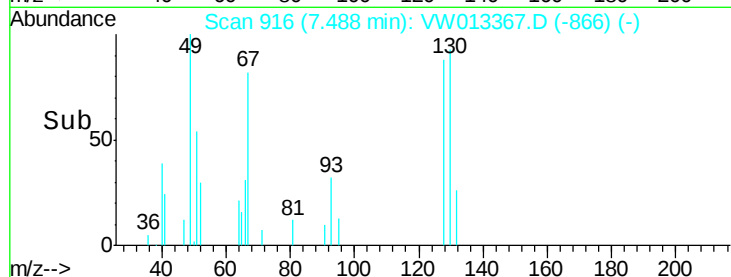
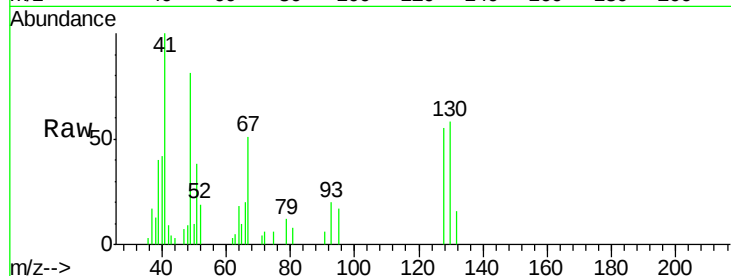
#41
Methacrylonitrile
Concen: 2.035 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	5678
Ion	Ratio	Lower	Upper
41	100		
39	52.4	40.7	61.1
67	76.1	54.7	82.1
52	25.2	21.4	32.2

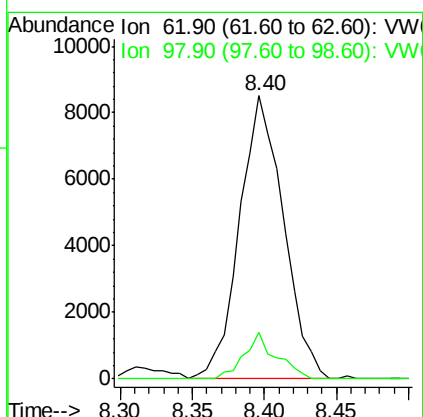
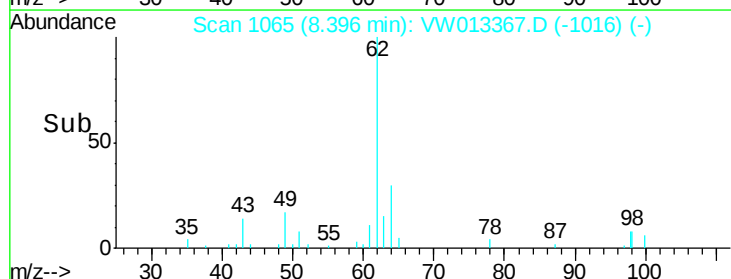
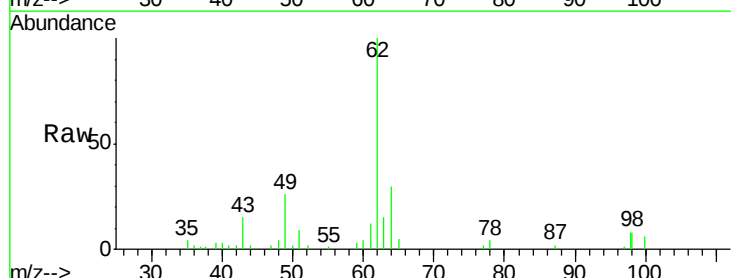
Manual Integrations
APPROVED

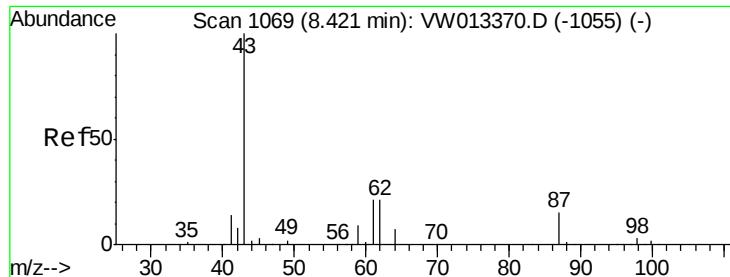
MMDadoda
10/14/2019 9:11:52 AM



#42
1,2-Dichloroethane
Concen: 4.896 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion:	62	Resp:	18023
Ion	Ratio	Lower	Upper
62	100		
98	11.9	0.0	22.2





#43

Isopropyl Acetate

Concen: 4.241 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

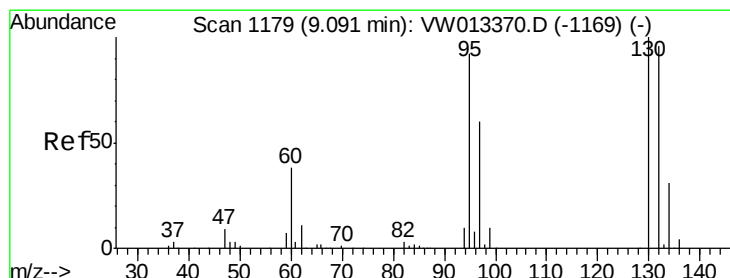
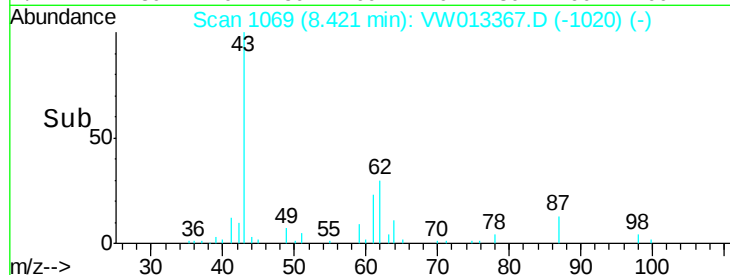
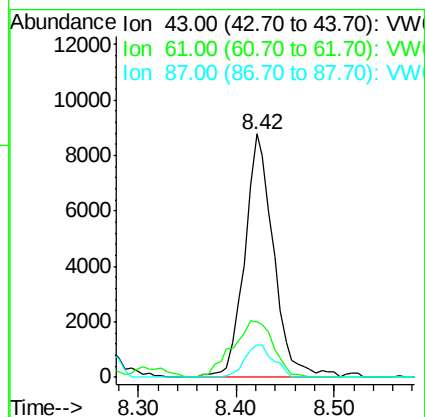
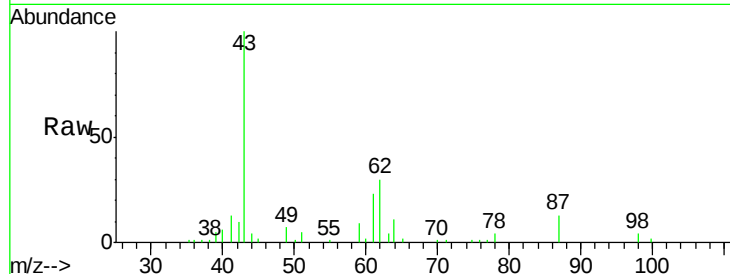
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	18042
Ion	Ratio	Lower	Upper
43	100		
61	32.8	24.8	37.2
87	13.3	11.3	16.9

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM



#44

Trichloroethene

Concen: 4.701 ug/l

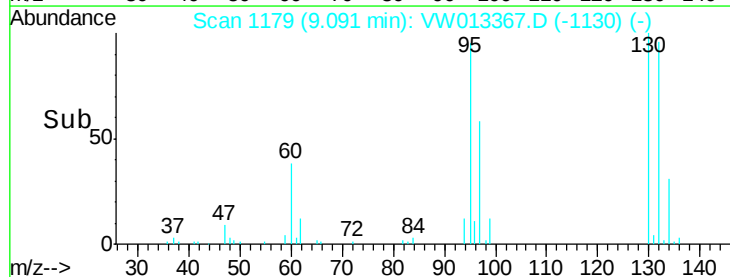
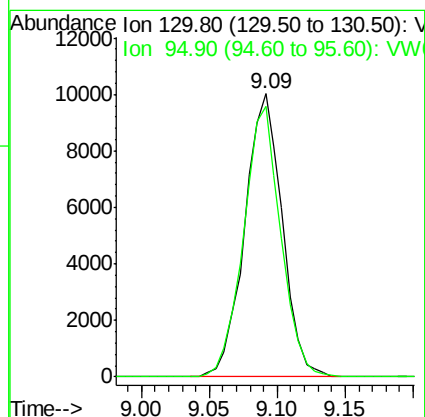
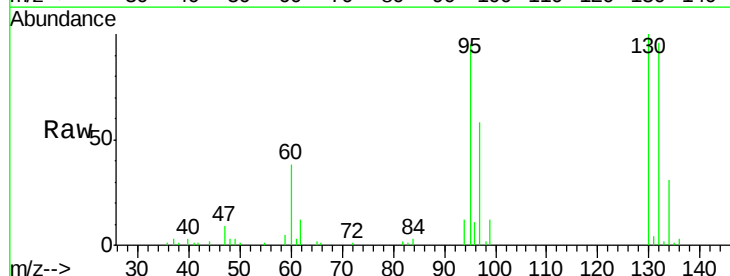
RT: 9.09 min Scan# 1179

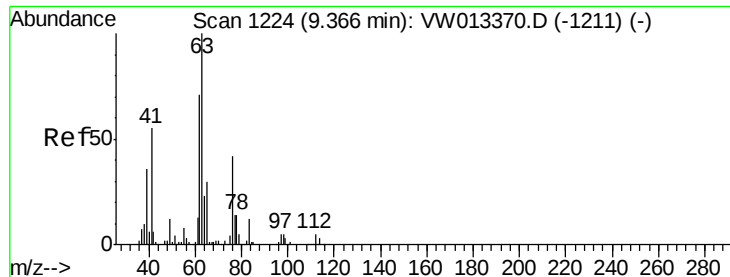
Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Tgt Ion:	130	Resp:	19262
Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	183.8





#45

1,2-Dichloropropane

Concen: 4.835 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 16609

Ion Ratio Lower Upper

63 100

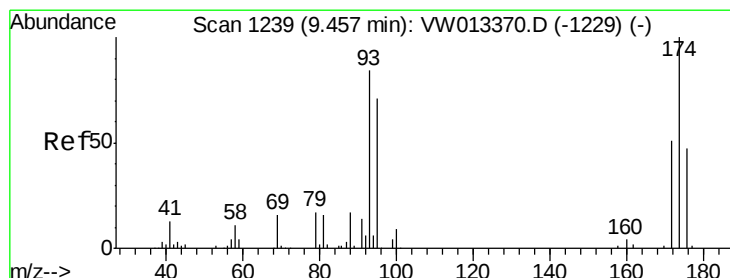
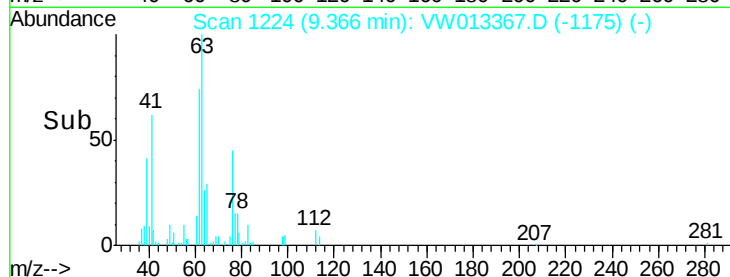
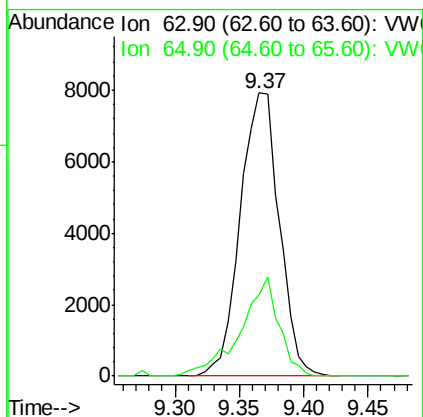
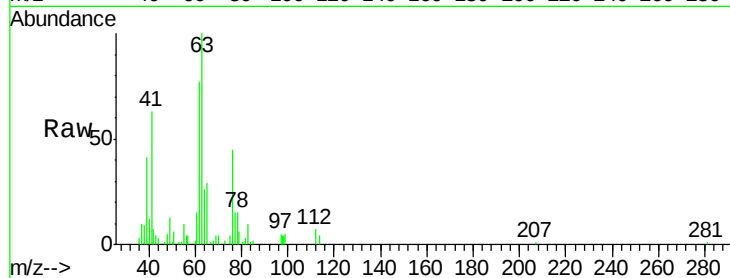
65 28.8 24.2 36.4

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#46

Dibromomethane

Concen: 4.581 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

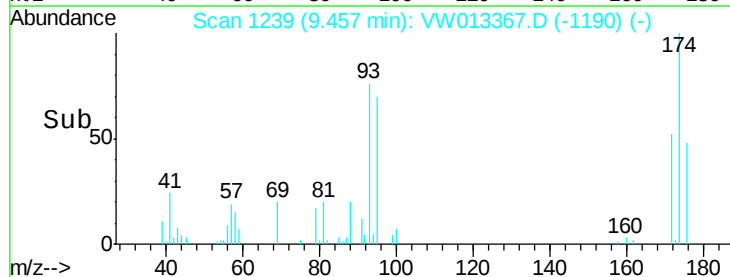
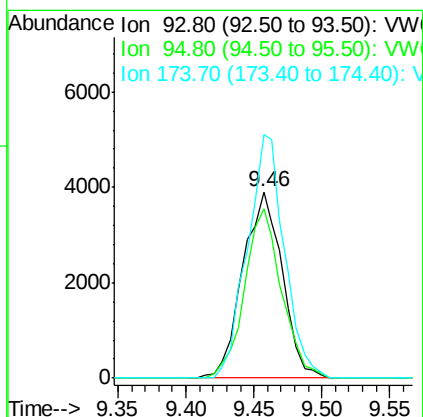
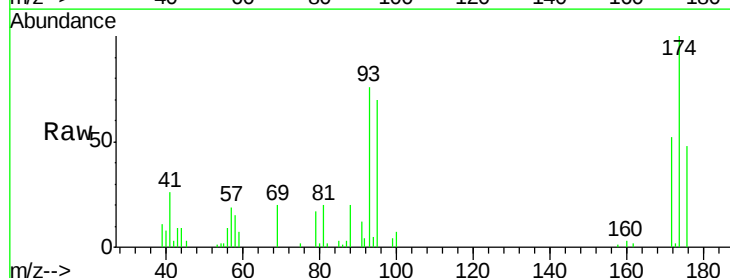
Tgt Ion: 93 Resp: 7903

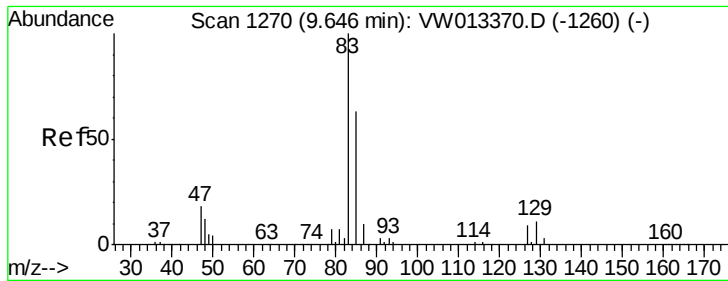
Ion Ratio Lower Upper

93 100

95 85.7 65.8 98.8

174 123.3 95.0 142.6





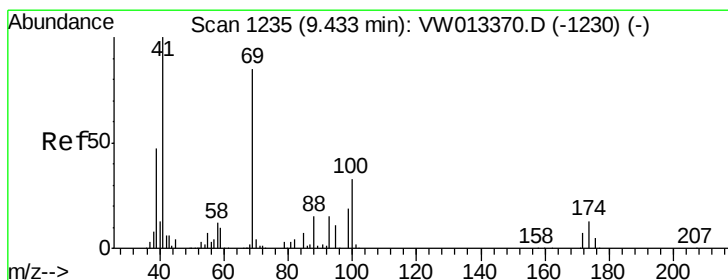
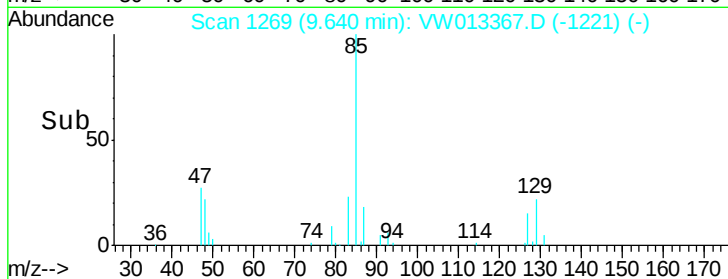
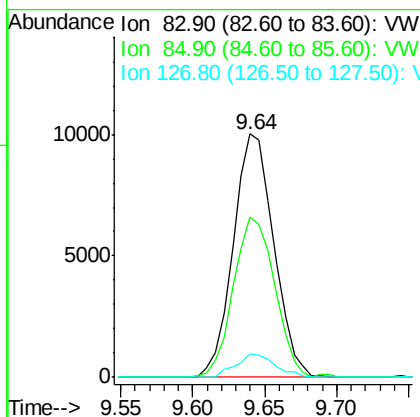
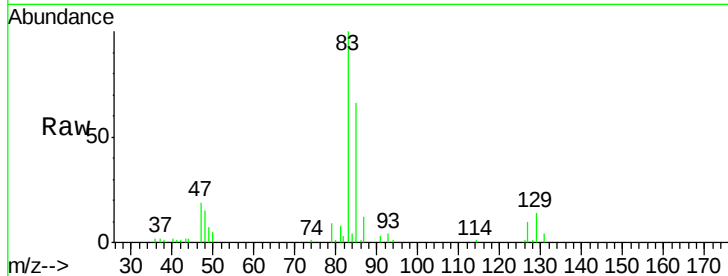
#47
Bromodichloromethane
Concen: 4.693 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. -0.01 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	19599
Ion Ratio	100	Lower	Upper
83	100		
85	66.0	50.4	75.6
127	9.6	7.0	10.6

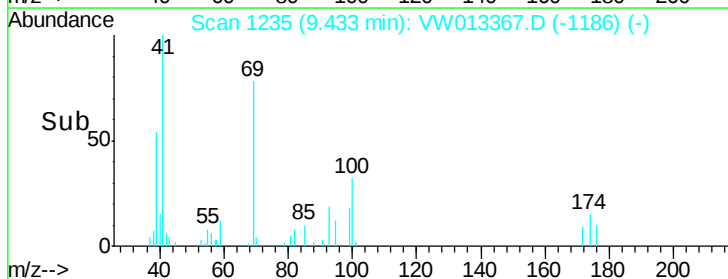
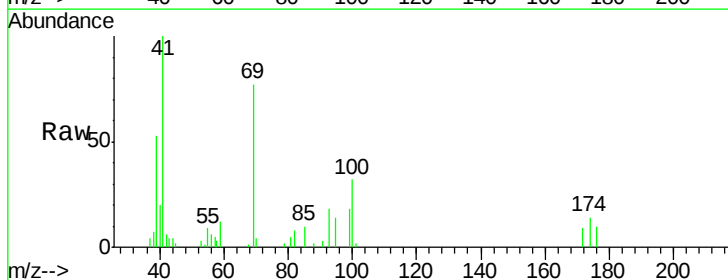
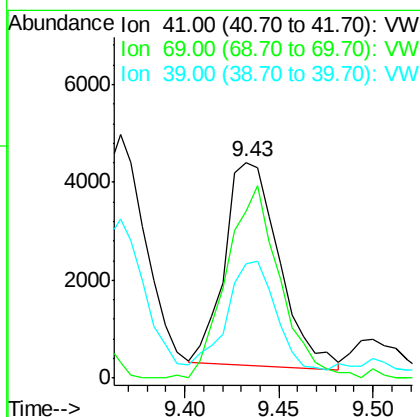
Manual Integrations
APPROVED

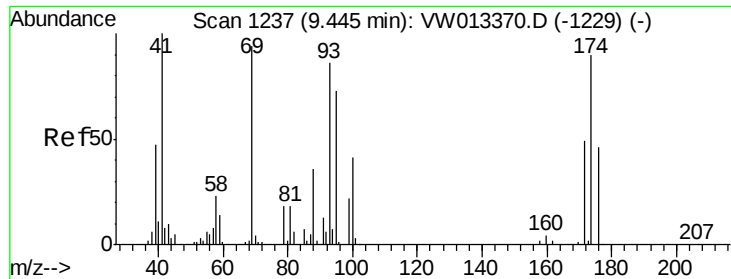
MMDadoda
10/14/2019 9:11:52 AM



#48
Methyl methacrylate
Concen: 4.186 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	41	Resp	8317
Ion Ratio	100	Lower	Upper
41	100		
69	92.3	70.8	106.2
39	48.7	39.1	58.7





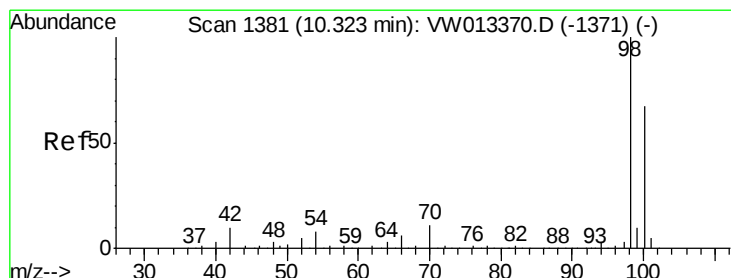
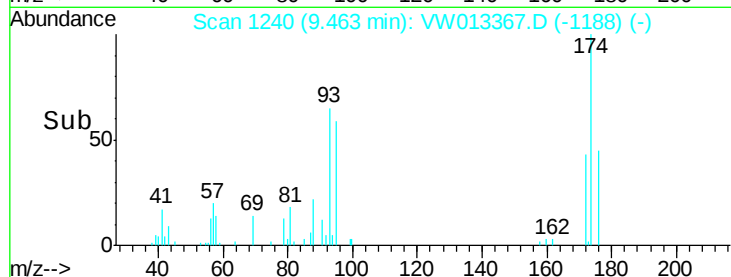
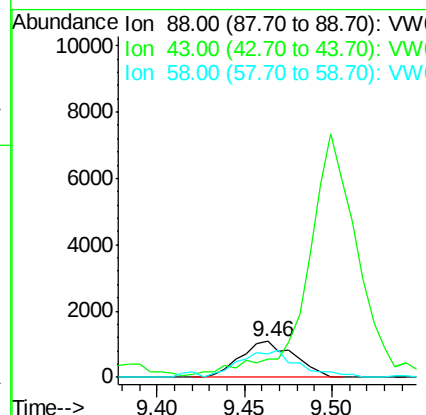
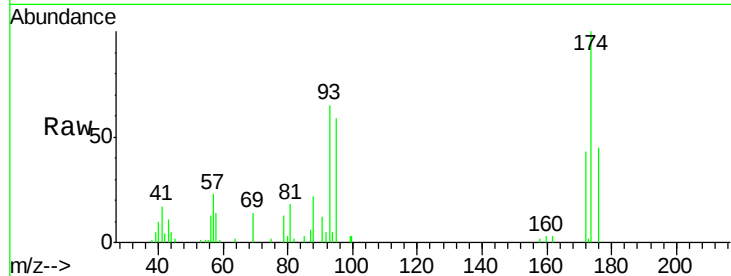
#49
1,4-Dioxane
Concen: 74.735 ug/l
RT: 9.46 min Scan# 1240
Delta R.T. 0.02 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.1	34.7#
58	83.0	57.3	85.9

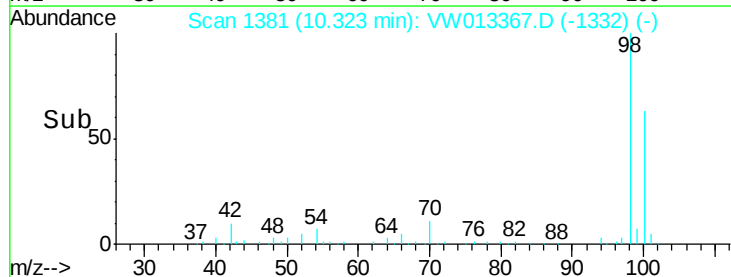
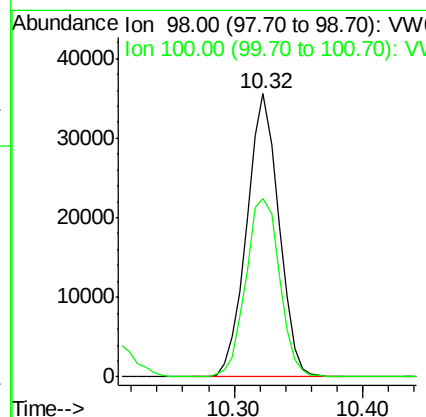
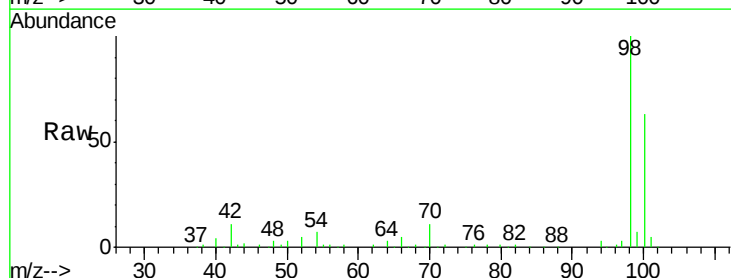
Manual Integrations
APPROVED

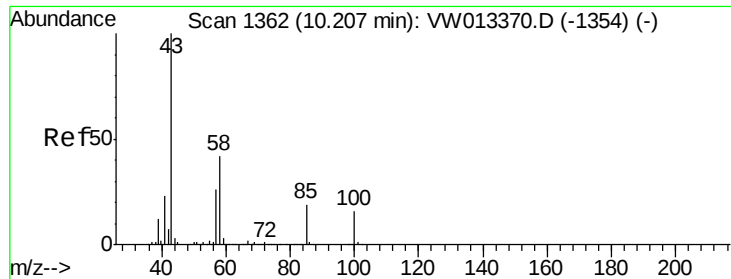
MMDadoda
10/14/2019 9:11:52 AM



#50
Toluene-d8
Concen: 5.202 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.9	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 21.901 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 50207

Ion Ratio Lower Upper

43 100

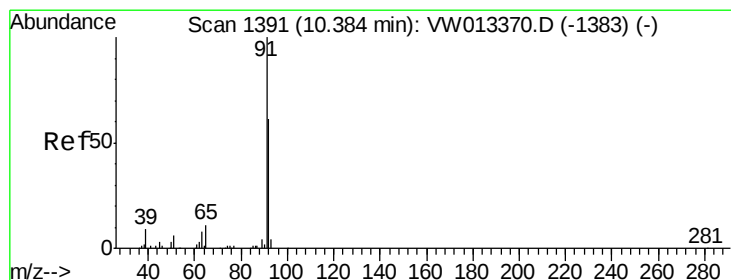
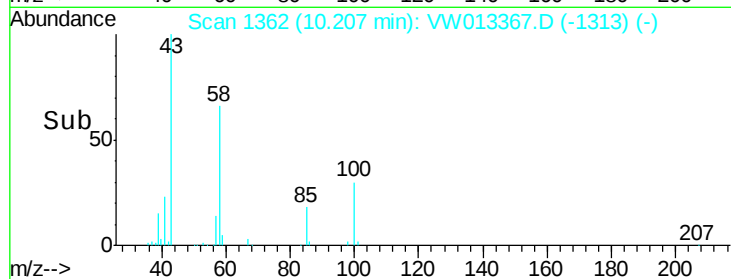
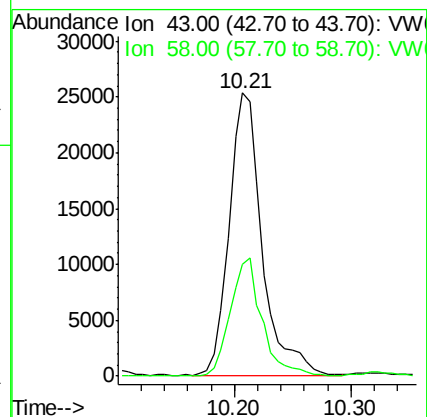
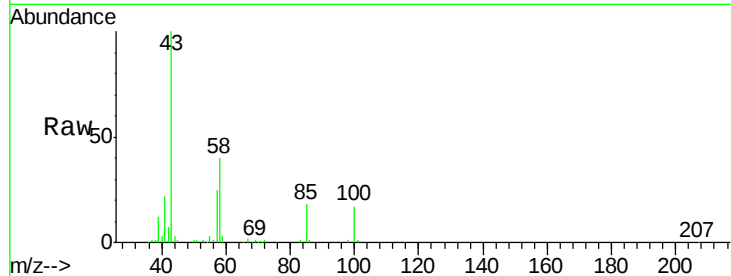
58 39.6 32.9 49.3

Manual Integrations

APPROVED

MMDadoda

10/14/2019 9:11:52 AM



#52

Toluene

Concen: 4.870 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013367.D

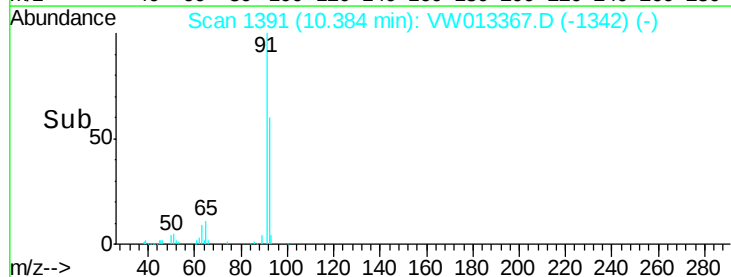
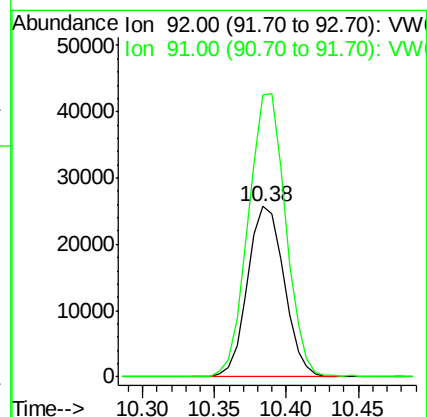
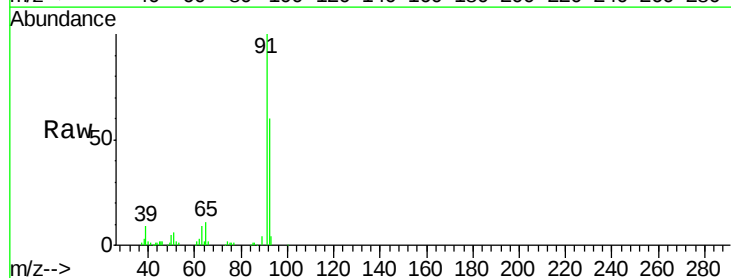
Acq: 01 Oct 2019 12:35

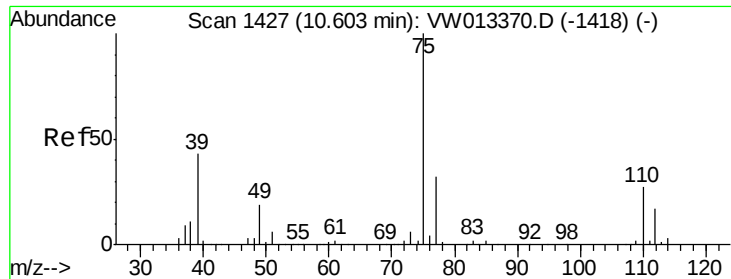
Tgt Ion: 92 Resp: 45151

Ion Ratio Lower Upper

92 100

91 170.1 134.8 202.2





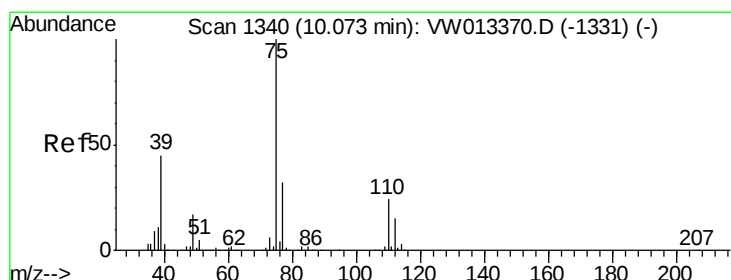
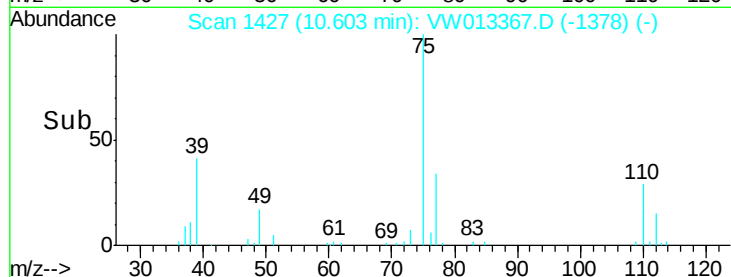
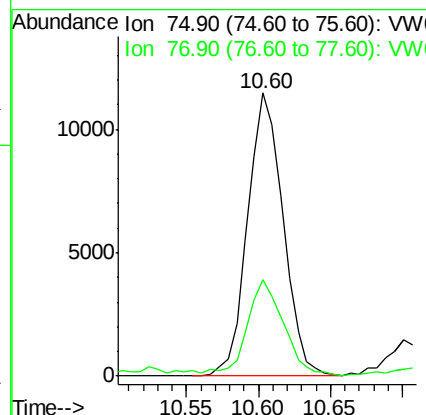
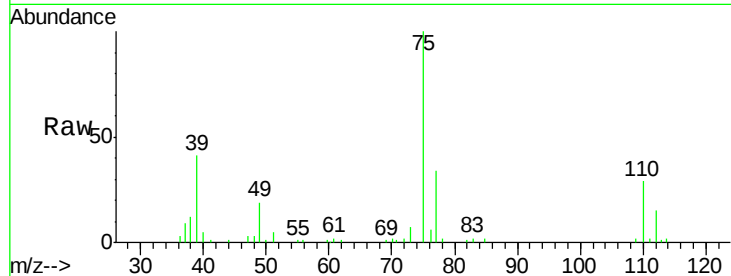
#53
t-1,3-Dichloropropene
Concen: 4.631 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.1	25.6	38.4

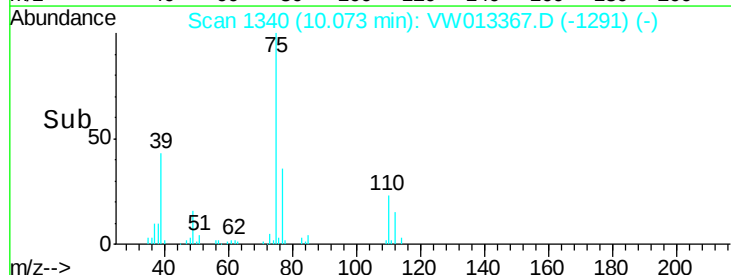
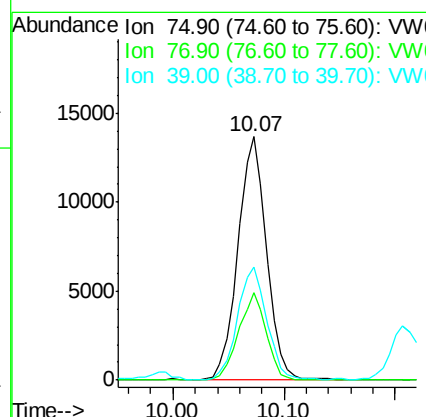
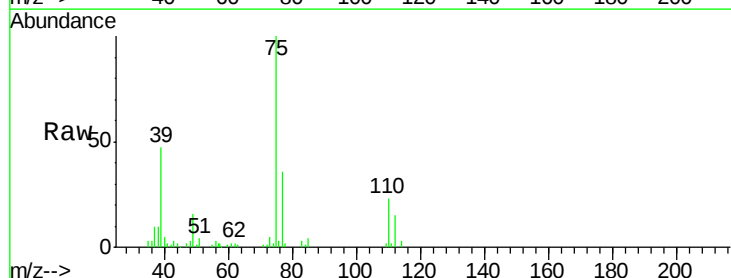
Manual Integrations
APPROVED

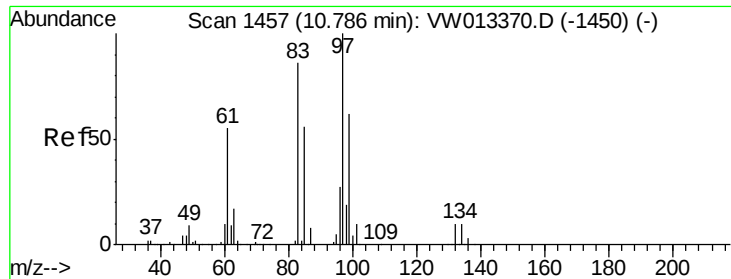
MMDadoda
10/14/2019 9:11:52 AM



#54
cis-1,3-Dichloropropene
Concen: 4.697 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	36.1	25.8	38.8
39	46.5	36.3	54.5





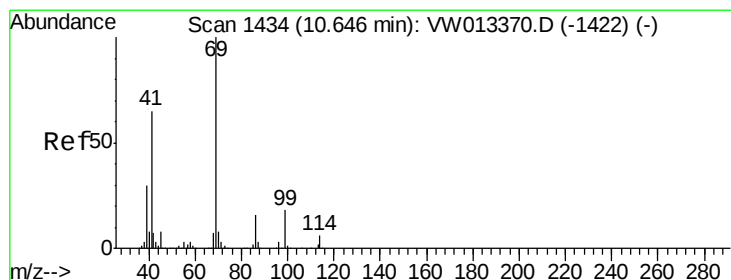
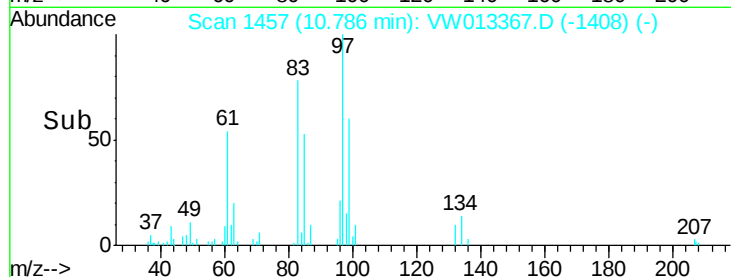
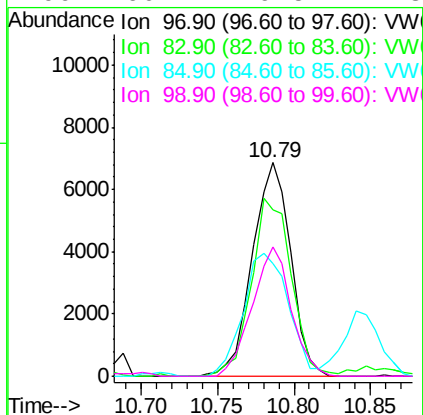
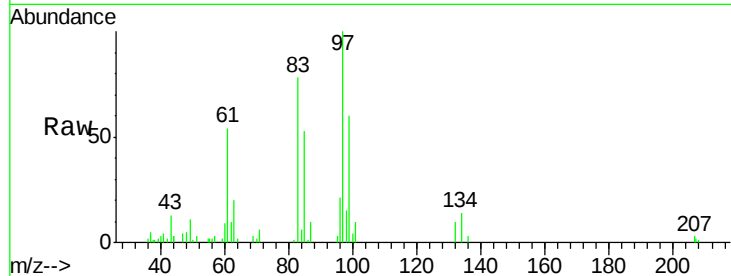
#55
 1,1,2-Trichloroethane
 Concen: 4.680 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	12006
Ion	Ratio	Lower	Upper
97	100		
83	77.8	69.2	103.8
85	52.9	44.5	66.7
99	60.4	49.5	74.3

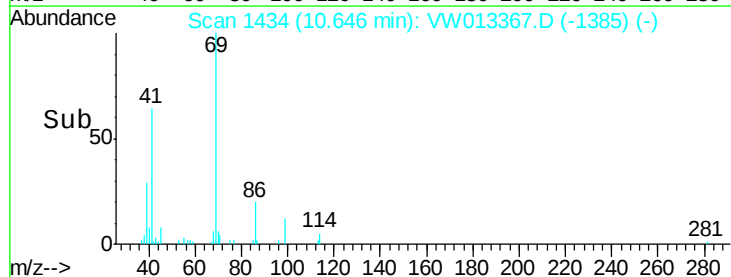
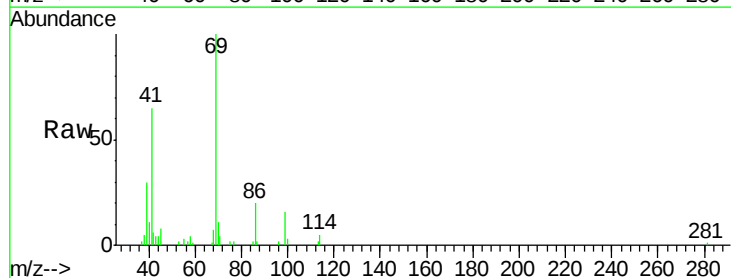
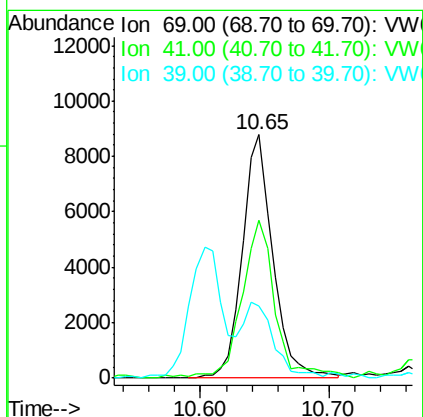
Manual Integrations
 APPROVED

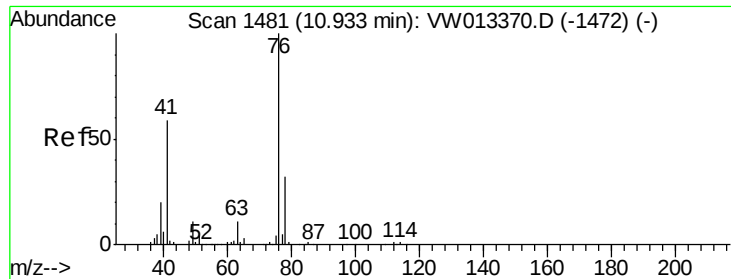
MMDadoda
 10/14/2019 9:11:52 AM



#56
 Ethyl methacrylate
 Concen: 4.241 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion:	69	Resp:	14318
Ion	Ratio	Lower	Upper
69	100		
41	71.0	53.4	80.2
39	29.4	22.3	33.5





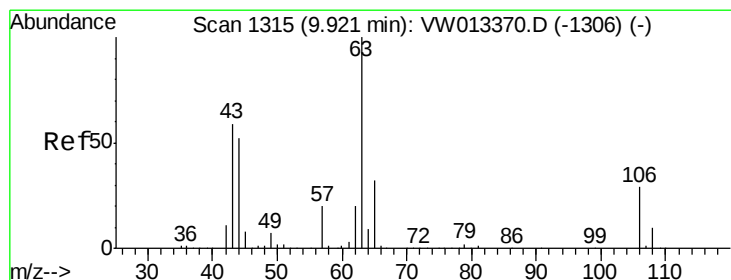
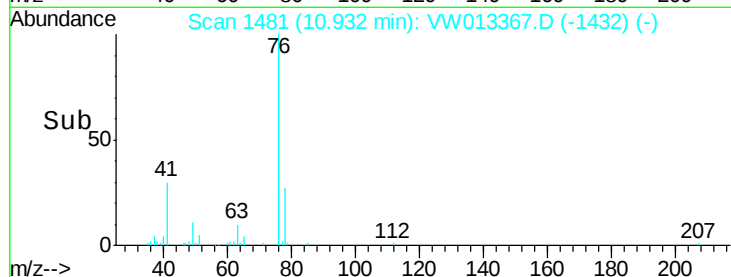
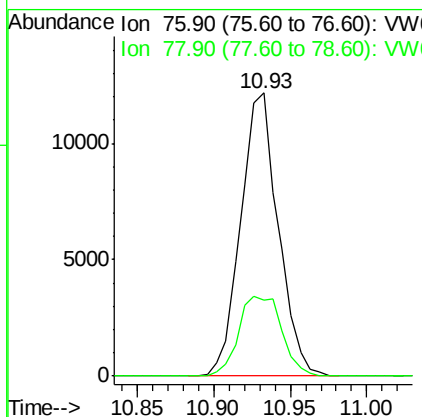
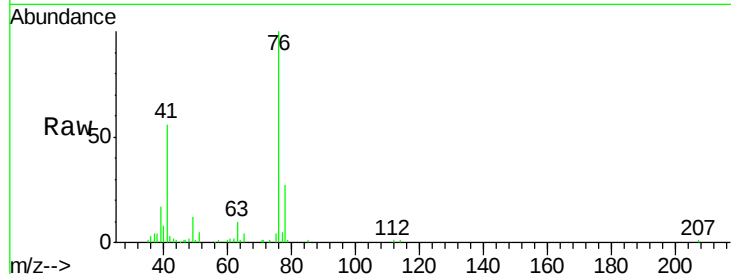
#57
 1,3-Dichloropropane
 Concen: 4.587 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion: 76 Resp: 20700
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.7 38.5

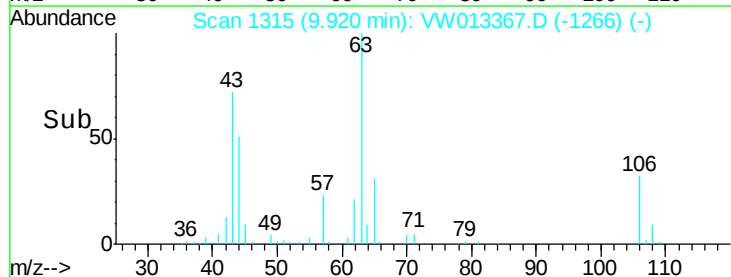
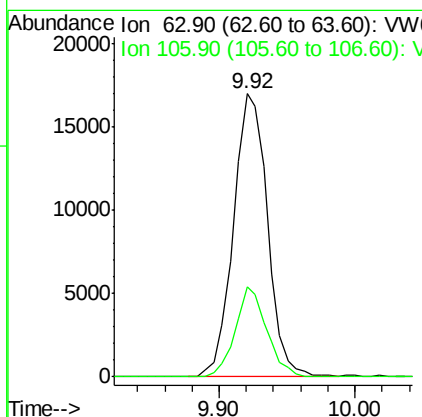
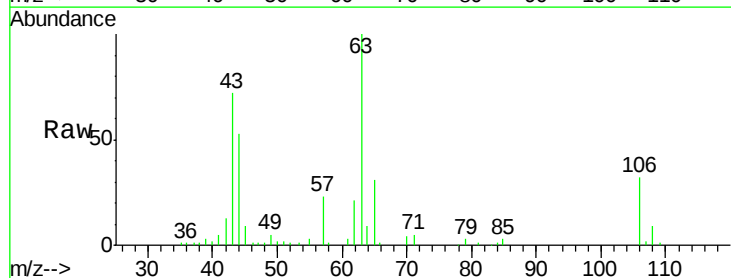
Manual Integrations
 APPROVED

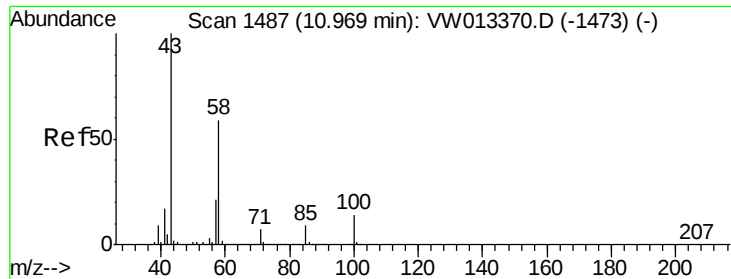
MMDadoda
 10/14/2019 9:11:52 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 21.258 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion: 63 Resp: 29606
 Ion Ratio Lower Upper
 63 100
 106 29.3 24.0 36.0





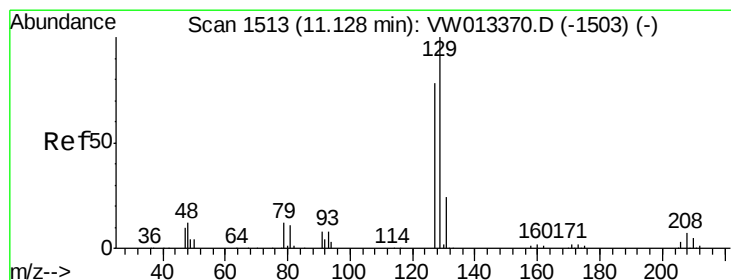
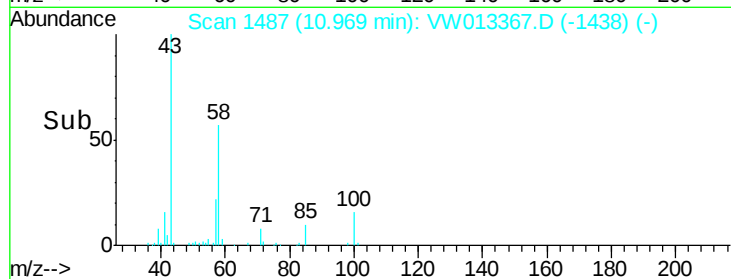
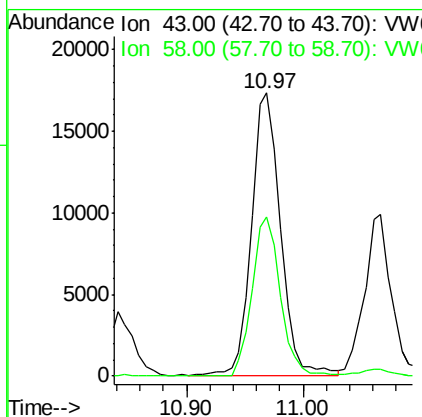
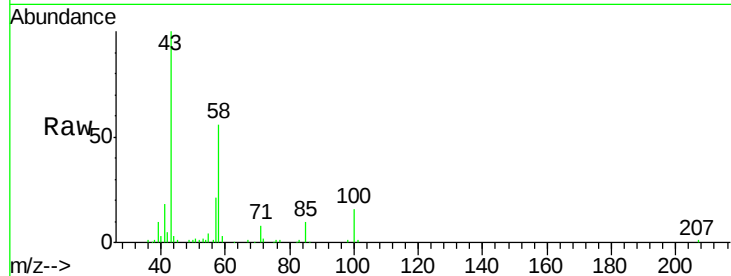
#59
2-Hexanone
Concen: 19.856 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 30374
Ion Ratio Lower Upper
43 100
58 54.5 28.8 86.5

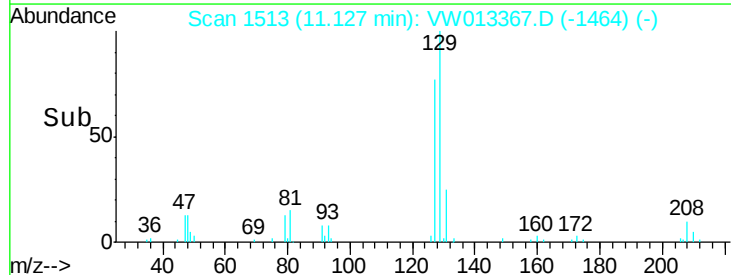
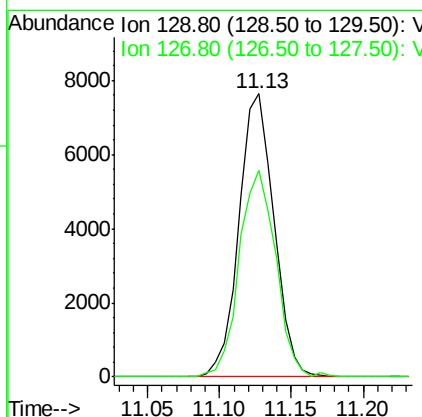
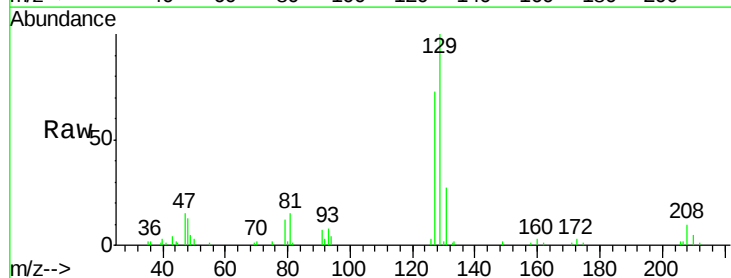
Manual Integrations
APPROVED

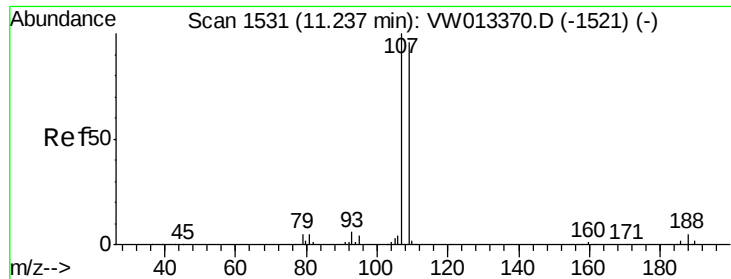
MMDadoda
10/14/2019 9:11:52 AM



#60
Dibromochloromethane
Concen: 4.540 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion: 129 Resp: 12897
Ion Ratio Lower Upper
129 100
127 76.2 38.6 115.7





#61

1,2-Dibromoethane

Concen: 4.591 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 11484

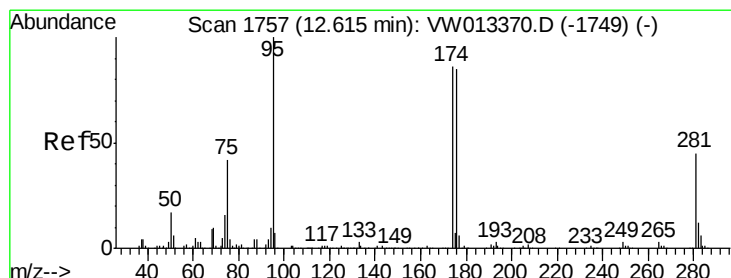
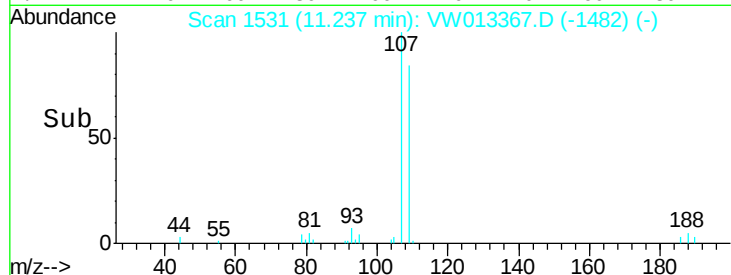
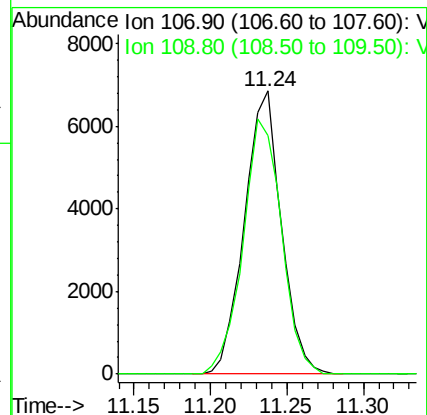
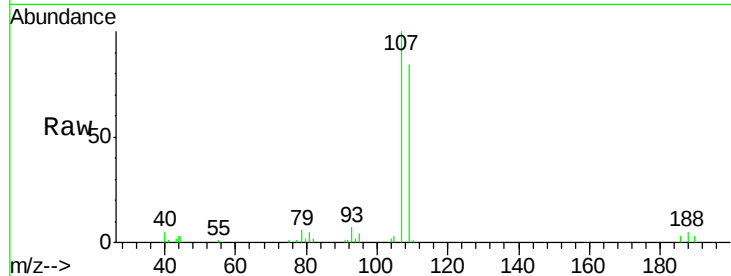
Ion Ratio Lower Upper

107 100

109 94.0 74.6 112.0

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM



#62

4-Bromofluorobenzene

Concen: 5.409 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

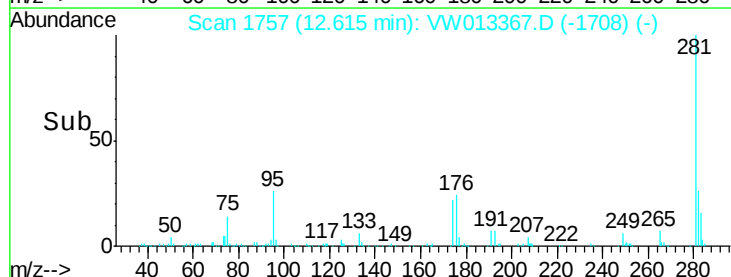
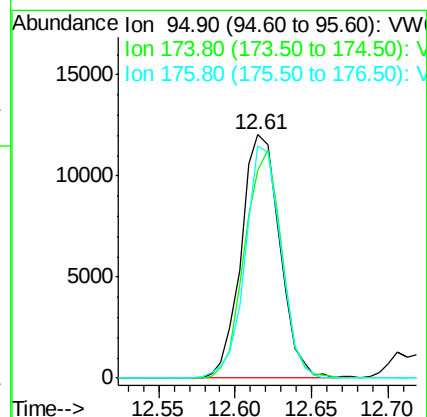
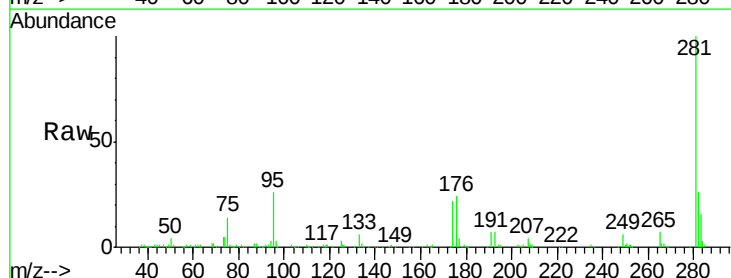
Tgt Ion: 95 Resp: 21082

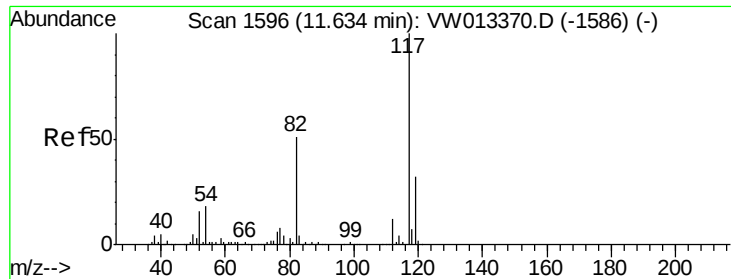
Ion Ratio Lower Upper

95 100

174 89.8 0.0 184.6

176 88.6 0.0 178.4





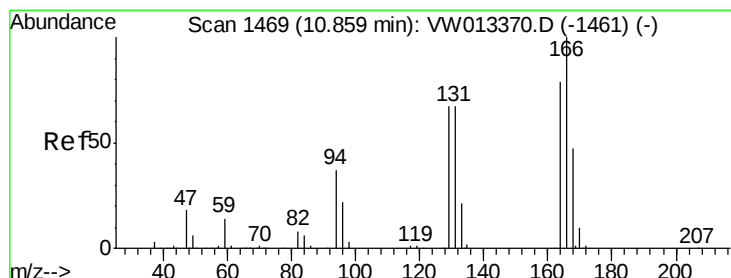
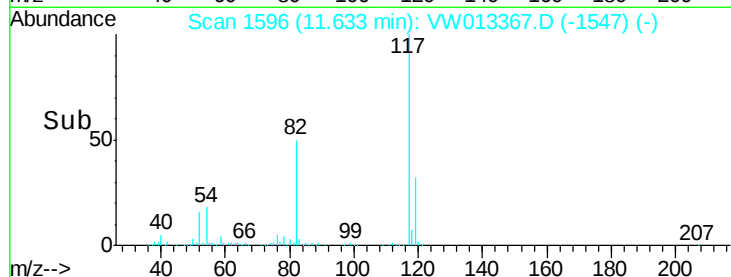
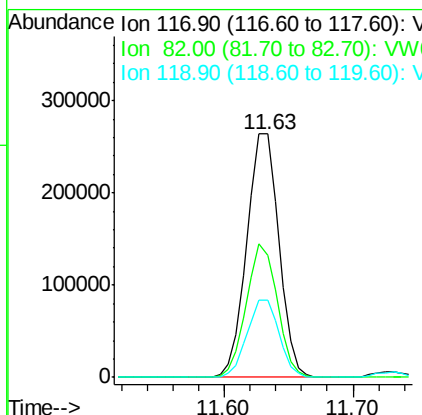
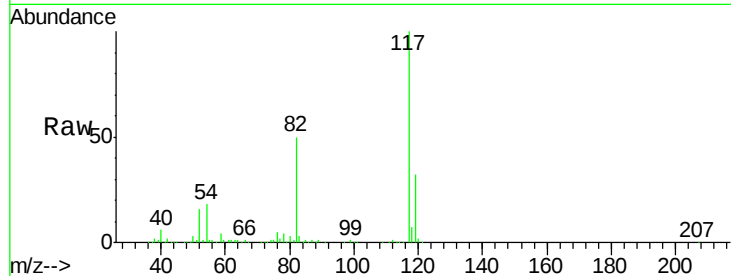
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.1	40.5	60.7
119	31.9	25.9	38.9

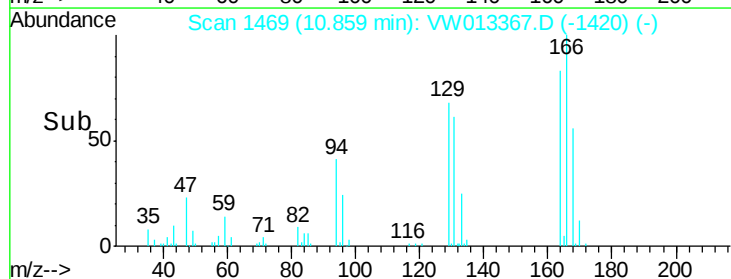
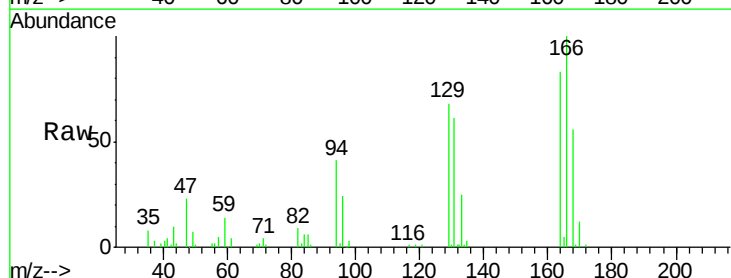
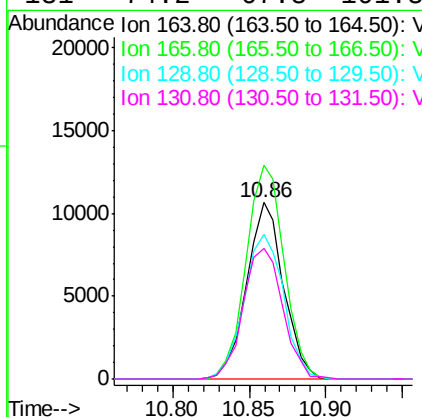
Manual Integrations
APPROVED

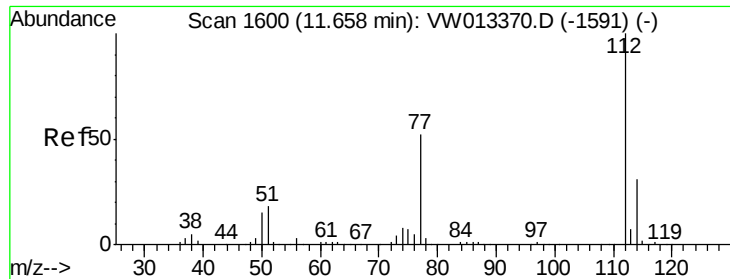
MMDadoda
10/14/2019 9:11:52 AM



#64
Tetrachloroethene
Concen: 4.910 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.2	101.4	152.2
129	82.4	68.0	102.0
131	74.2	67.8	101.8





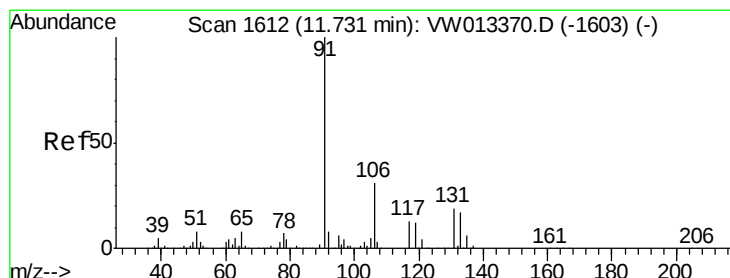
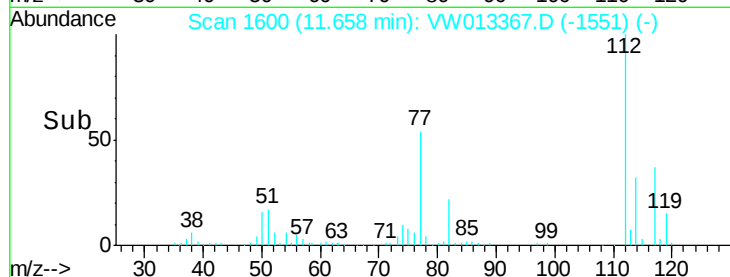
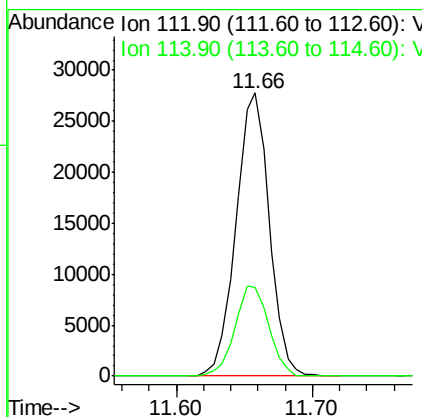
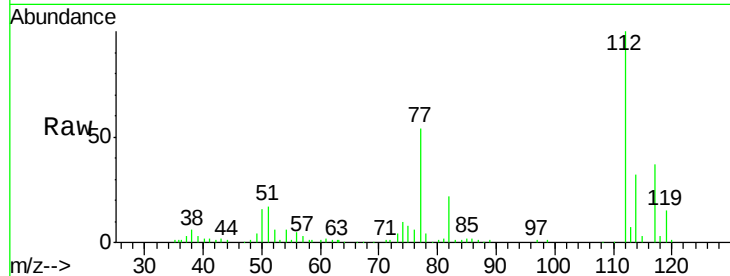
#65
Chlorobenzene
Concen: 4.859 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 47363
Ion Ratio Lower Upper
112 100
114 31.5 25.0 37.4

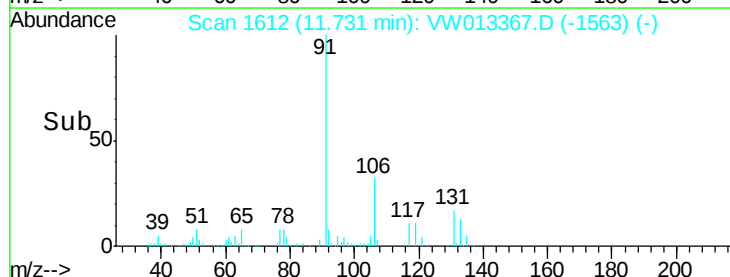
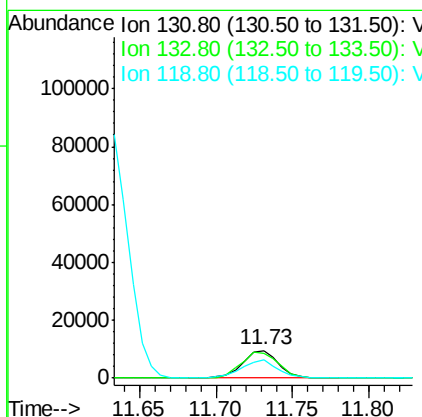
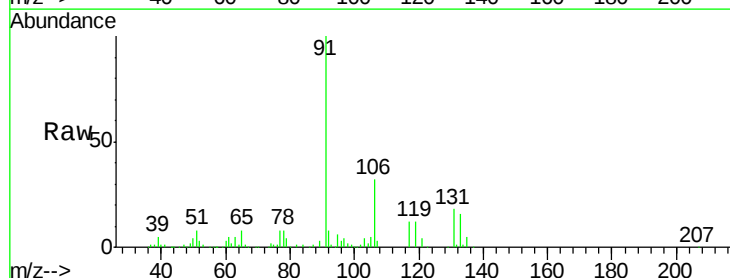
Manual Integrations
APPROVED

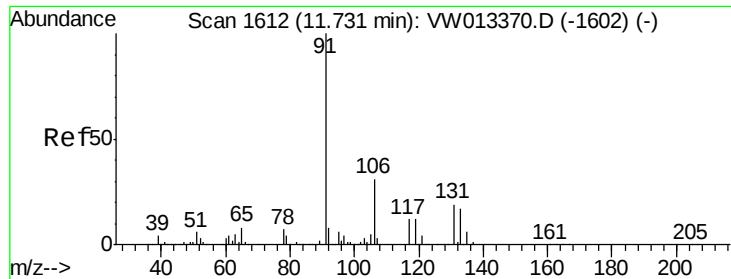
MMDadoda
10/14/2019 9:11:52 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.787 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion:131 Resp: 15456
Ion Ratio Lower Upper
131 100
133 100.0 47.5 142.6
119 65.0 31.9 95.9





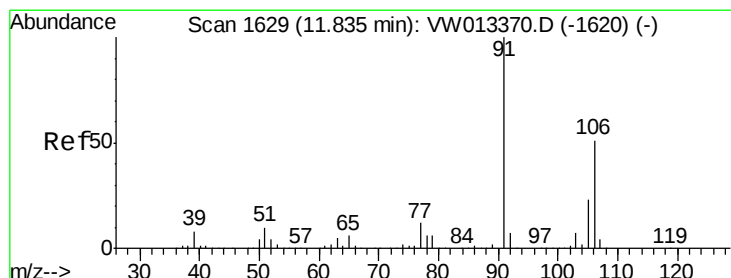
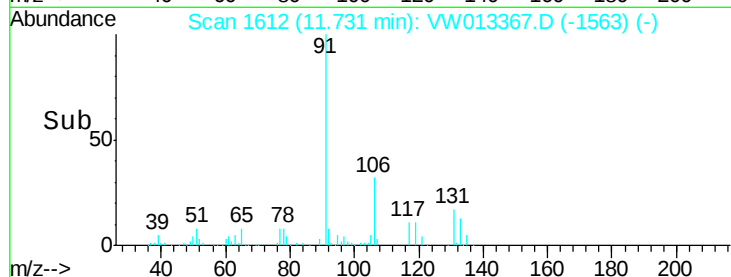
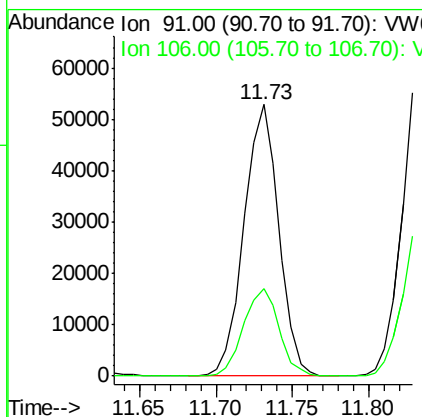
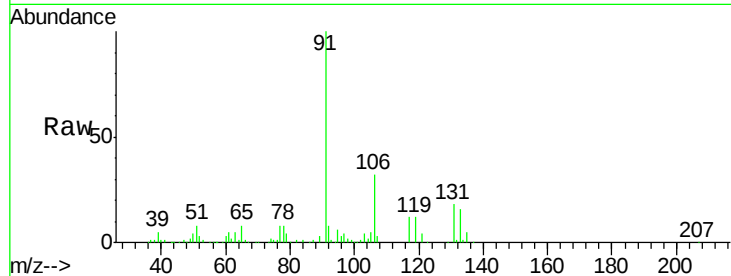
#67
Ethyl Benzene
Concen: 4.798 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 83586
Ion Ratio Lower Upper
91 100
106 32.3 24.9 37.3

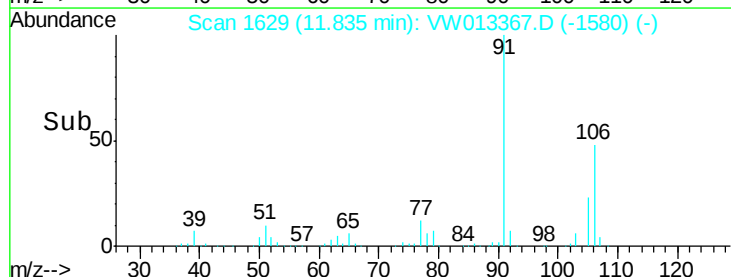
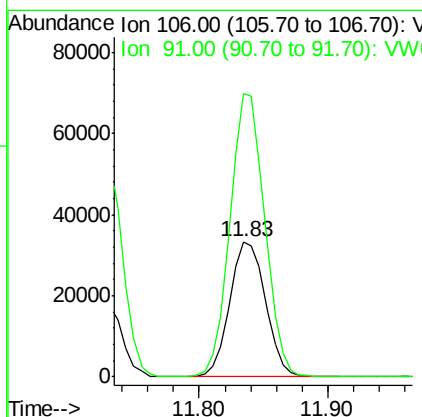
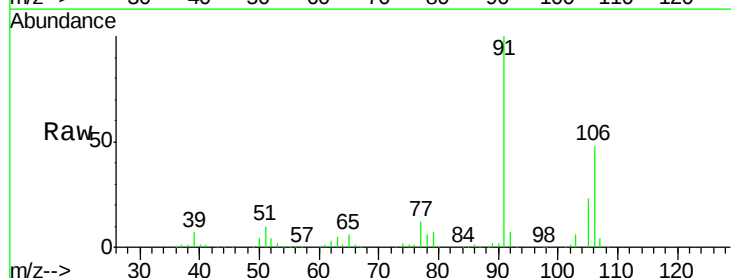
Manual Integrations
APPROVED

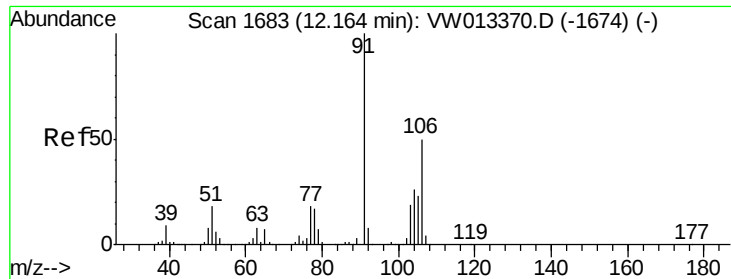
MMDadoda
10/14/2019 9:11:52 AM



#68
m/p-Xylenes
Concen: 9.547 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion: 106 Resp: 64392
Ion Ratio Lower Upper
106 100
91 203.7 160.5 240.7





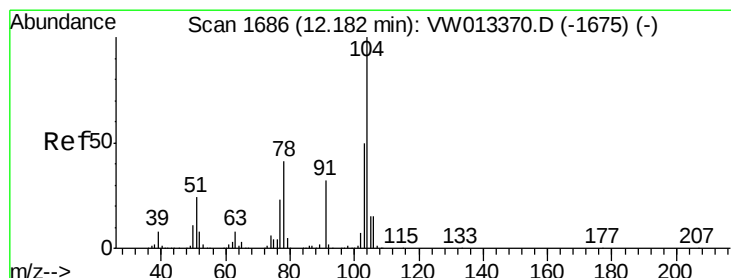
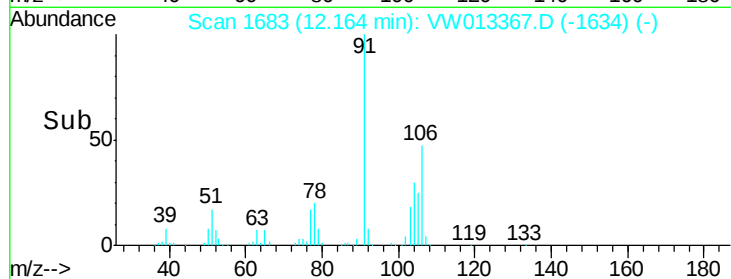
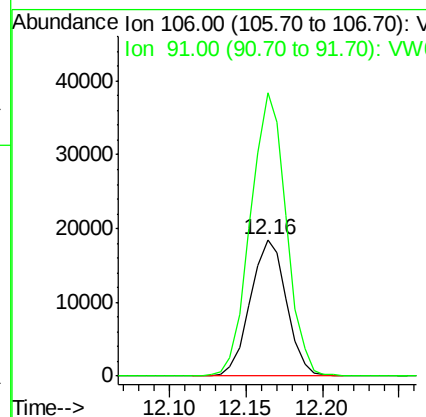
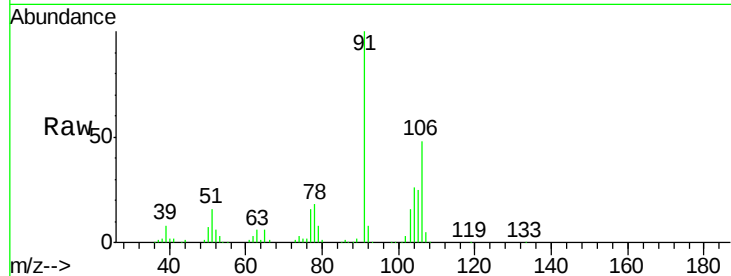
#69
o-Xylene
Concen: 4.926 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 30272
Ion Ratio Lower Upper
106 100
91 206.5 104.4 313.1

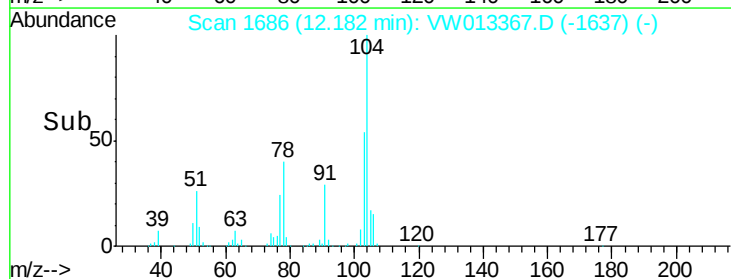
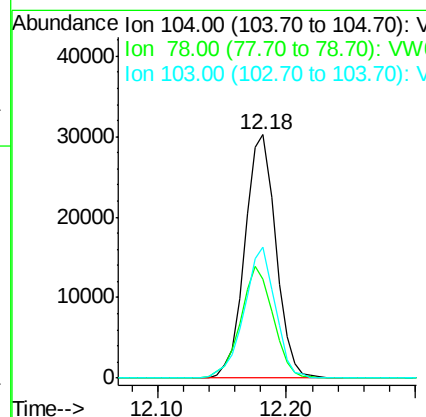
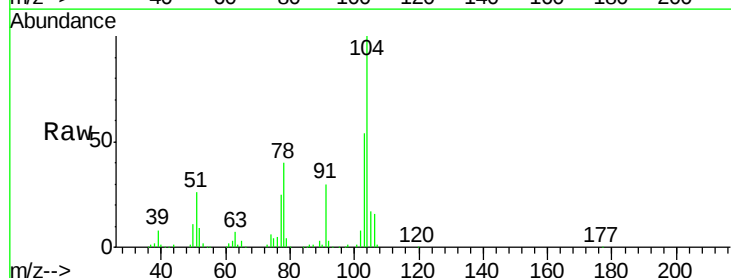
Manual Integrations
APPROVED

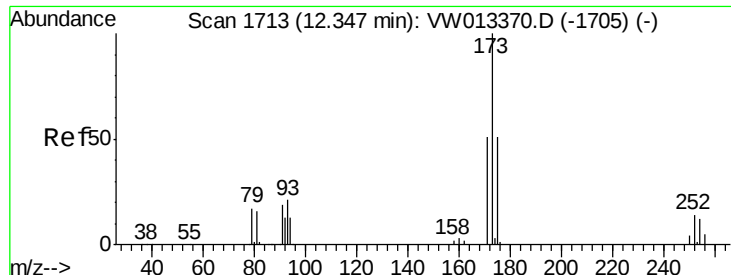
MMDadoda
10/14/2019 9:11:52 AM



#70
Styrene
Concen: 4.759 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion:104 Resp: 50225
Ion Ratio Lower Upper
104 100
78 48.2 37.4 56.2
103 54.0 43.2 64.8





#71

Bromoform

Concen: 4.384 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC005

Tot Ion:173 Resp: 7702

Ion Ratio Lower Upper

173 100

175 48.5 24.1 72.4

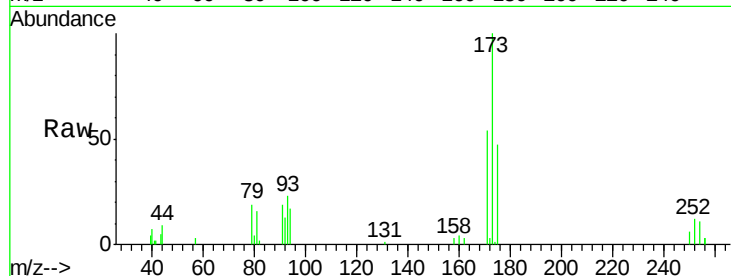
254 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

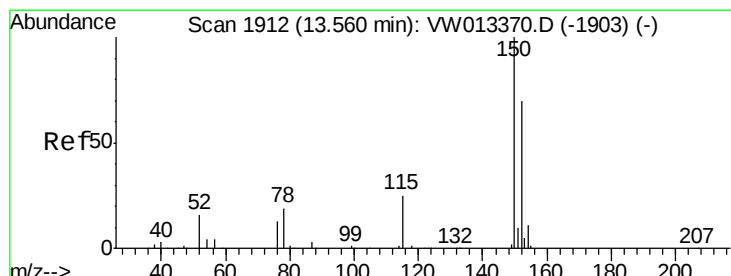
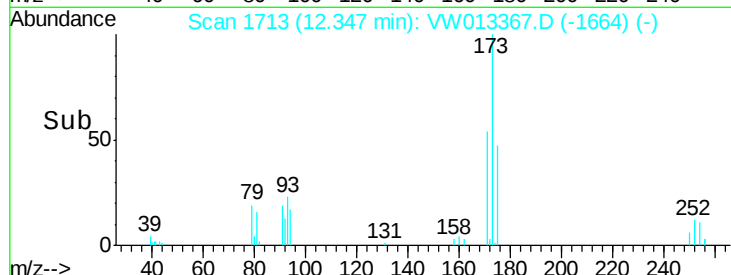
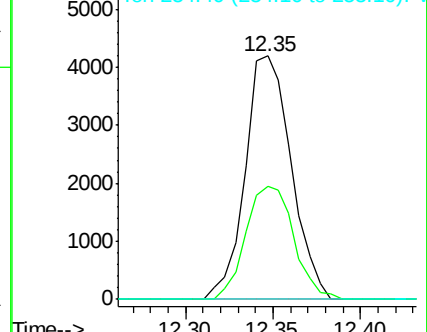
10/14/2019 9:11:52 AM



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: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

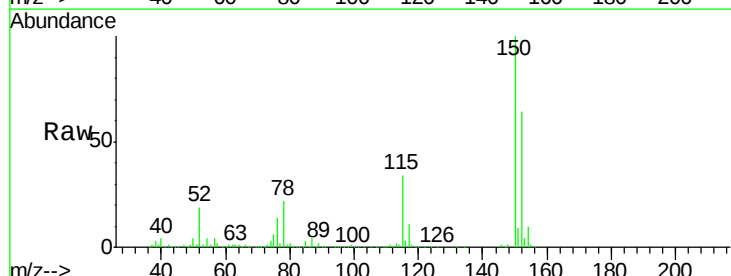
Tgt Ion:152 Resp: 224886

Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.5

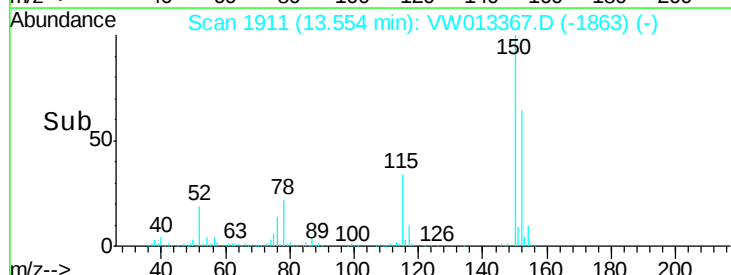
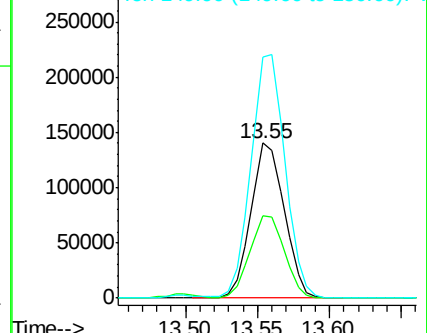
150 160.1 0.0 344.6

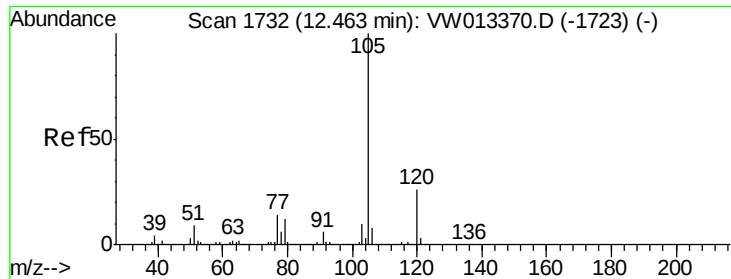


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





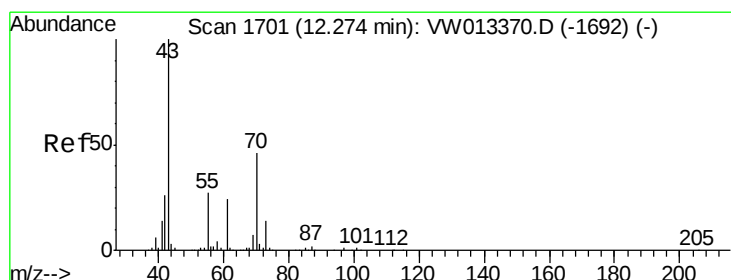
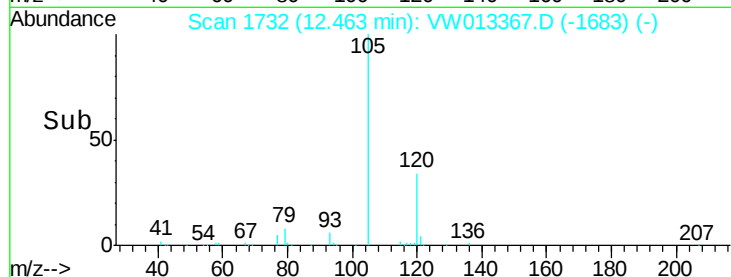
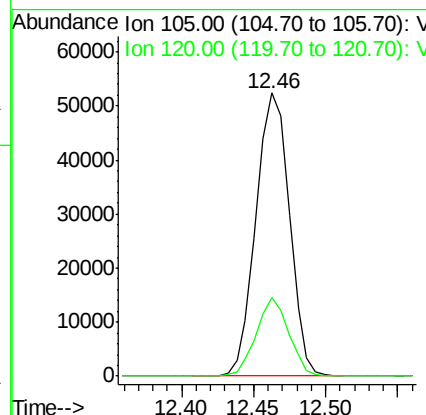
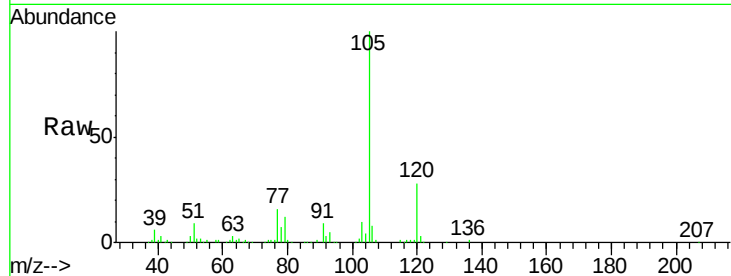
#73
Isopropylbenzene
Concen: 4.977 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.3	39.8

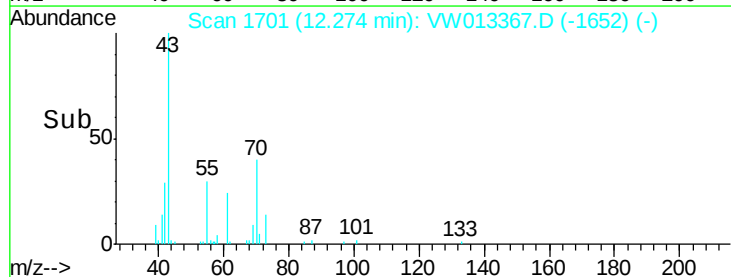
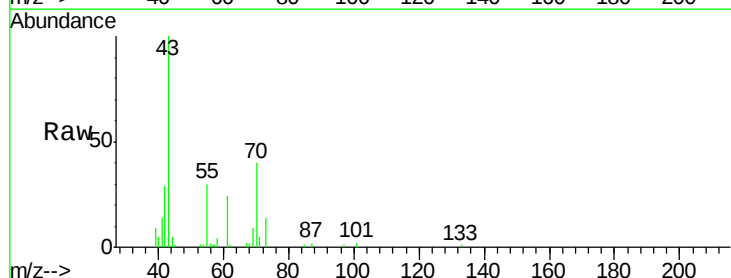
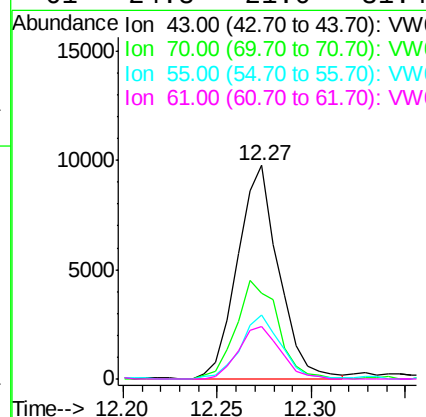
Manual Integrations
APPROVED

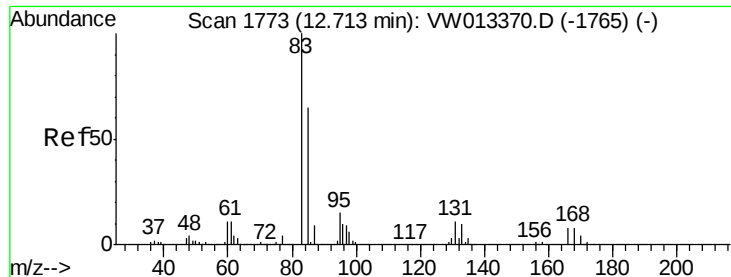
MMDadoda
10/14/2019 9:11:52 AM



#74
N-ethyl acetate
Concen: 4.074 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
70	47.1	36.6	55.0
55	29.7	21.0	31.6
61	24.8	21.0	31.4





#75

1,1,2,2-Tetrachloroethane

Concen: 4.510 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

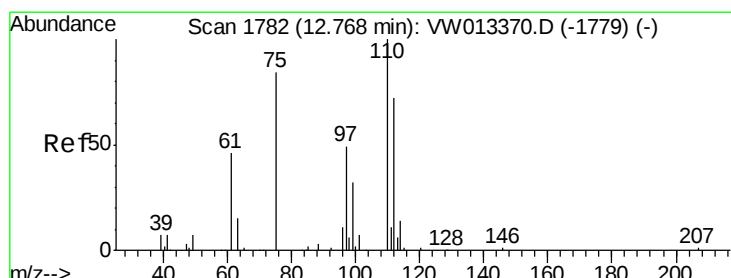
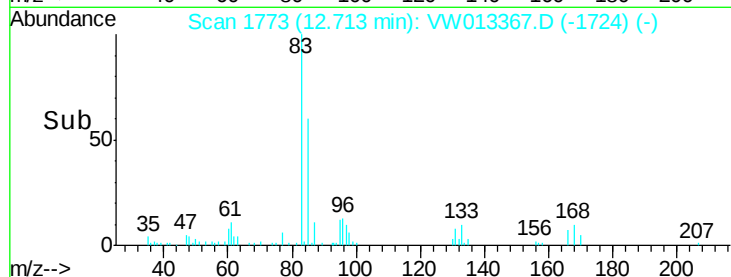
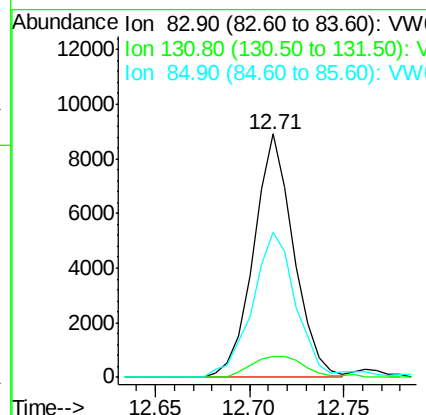
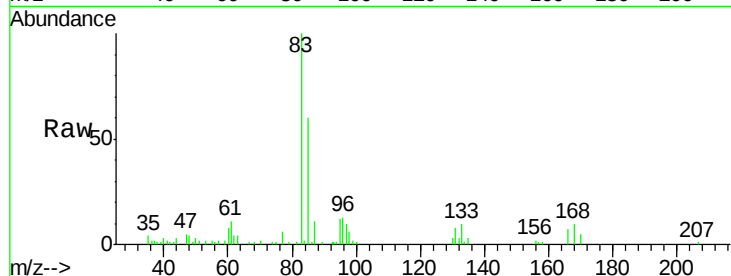
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	13098
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.6	16.8
85	66.5	33.1	99.2

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM



#76

1,2,3-Trichloropropane

Concen: 4.258 ug/l m

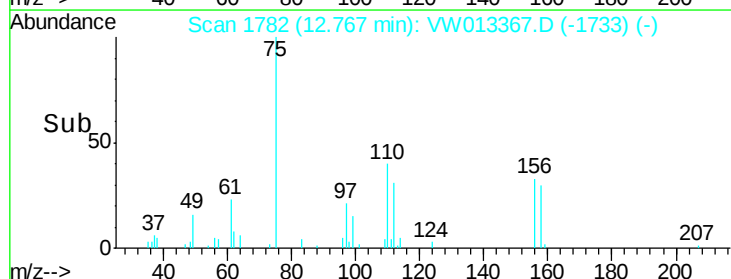
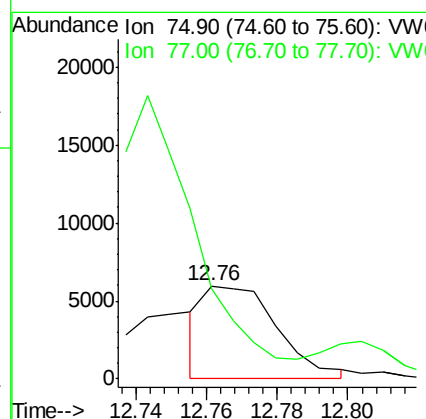
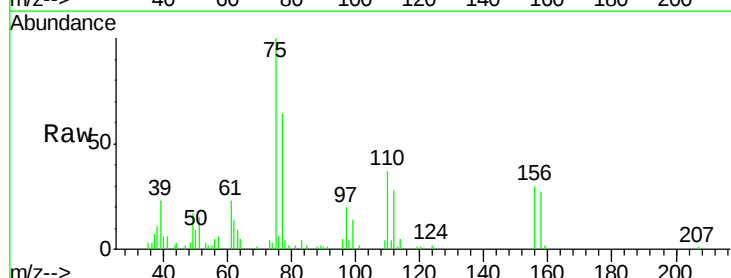
RT: 12.77 min Scan# 1782

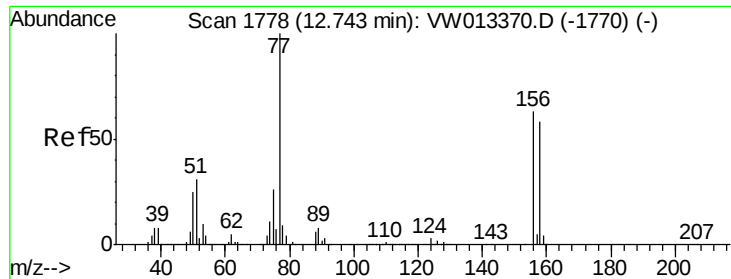
Delta R.T. 0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Tgt Ion:	75	Resp:	8659
Ion	Ratio	Lower	Upper
75	100		
77	370.3	0.0	0.0#





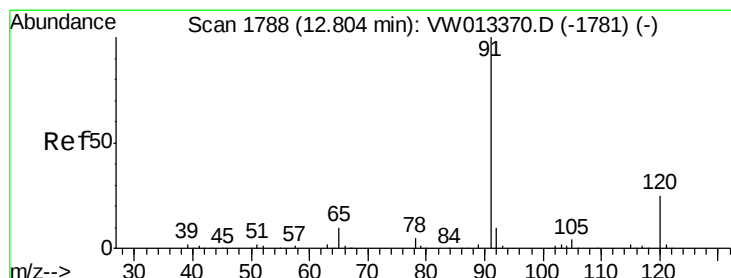
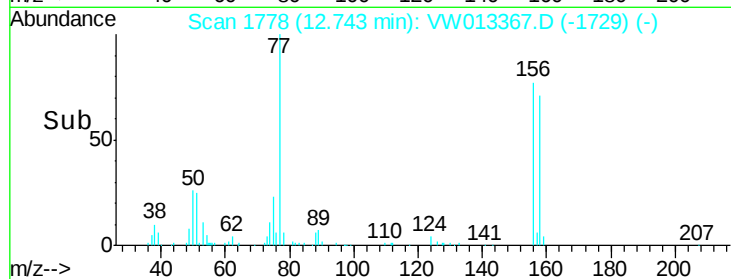
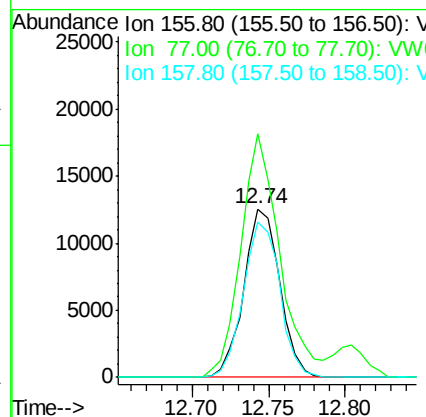
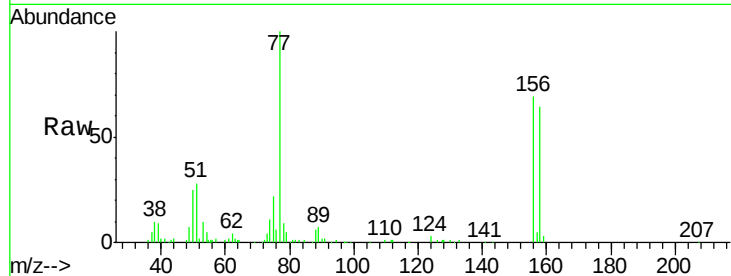
#77
Bromobenzene
Concen: 5.091 ug/l
RT: 12.74 min Scan# 1778
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	156.3	86.7	260.1
158	93.9	48.6	145.9

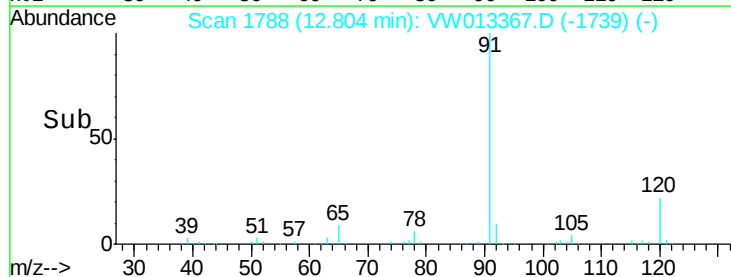
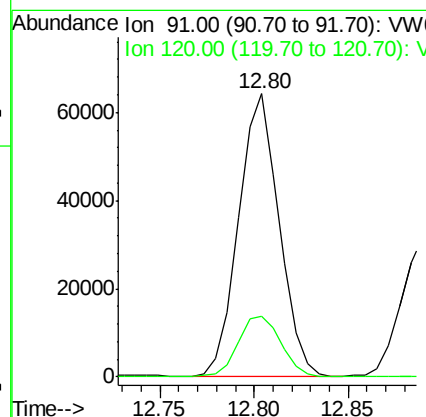
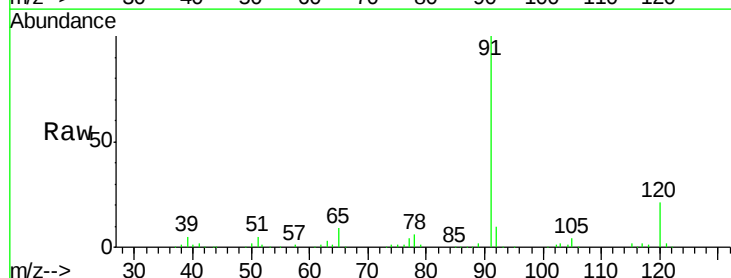
Manual Integrations
APPROVED

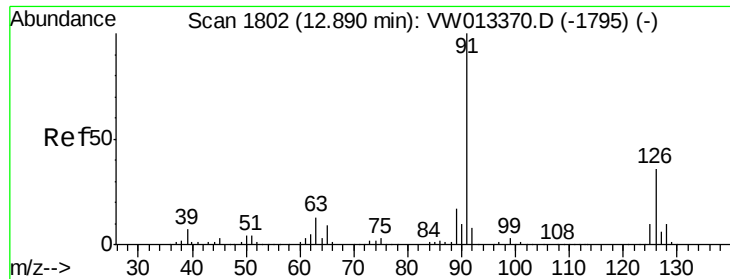
MMDadoda
10/14/2019 9:11:52 AM



#78
n-propylbenzene
Concen: 4.916 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.0	12.1	36.3





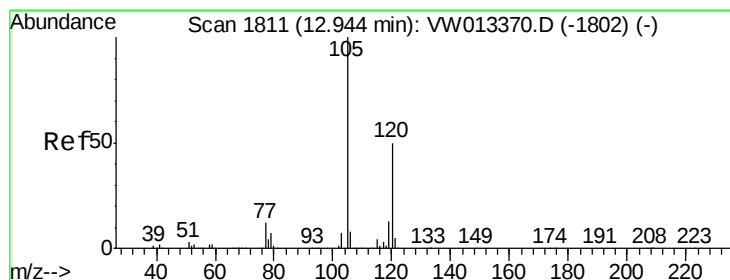
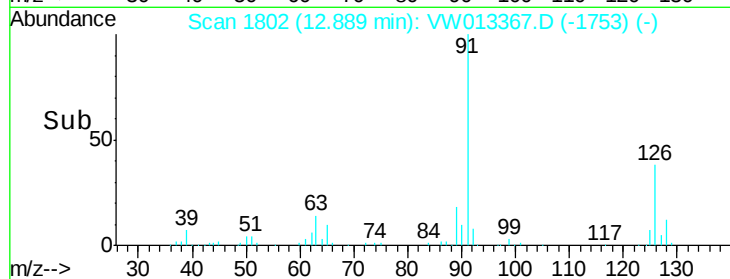
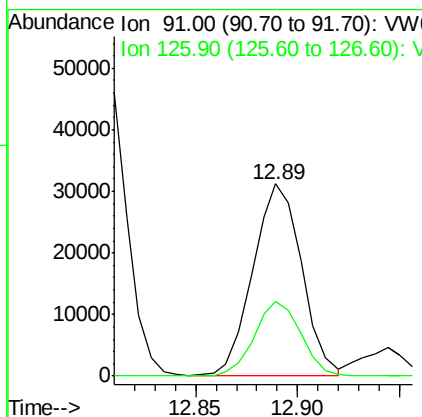
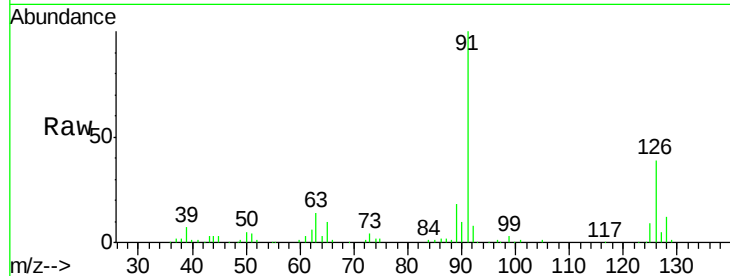
#79
 2-Chlorotoluene
 Concen: 4.733 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion: 91 Resp: 51874
 Ion Ratio Lower Upper
 91 100
 126 37.1 17.6 52.9

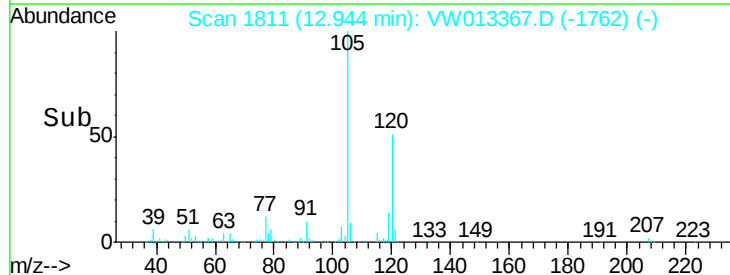
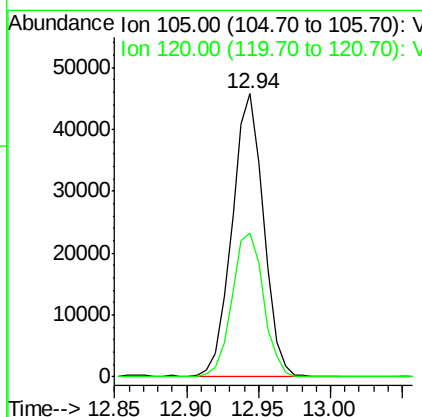
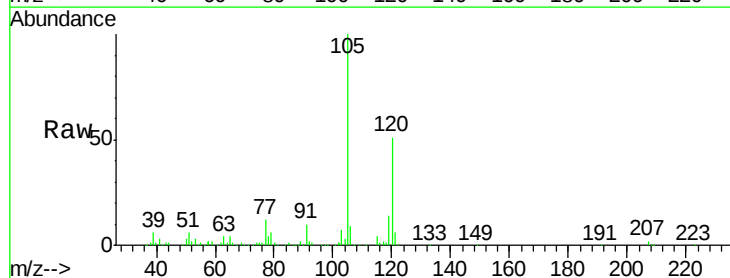
Manual Integrations
 APPROVED

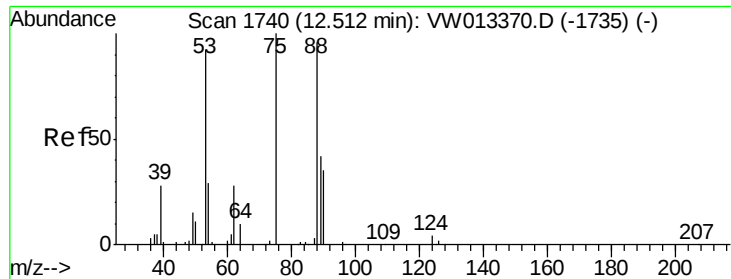
MMDadoda
 10/14/2019 9:11:52 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 4.911 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion: 105 Resp: 69996
 Ion Ratio Lower Upper
 105 100
 120 50.7 24.9 74.8





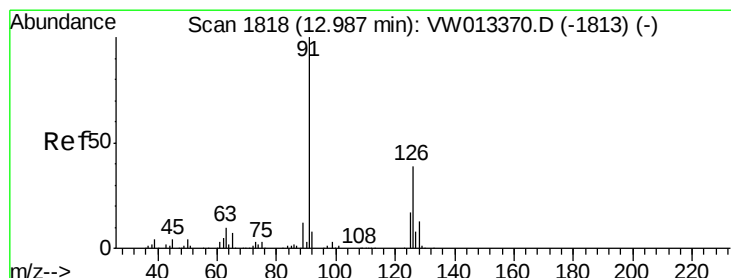
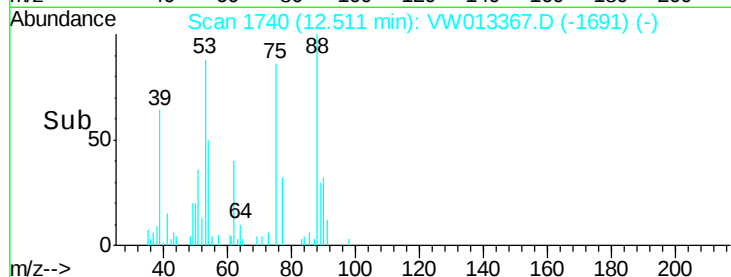
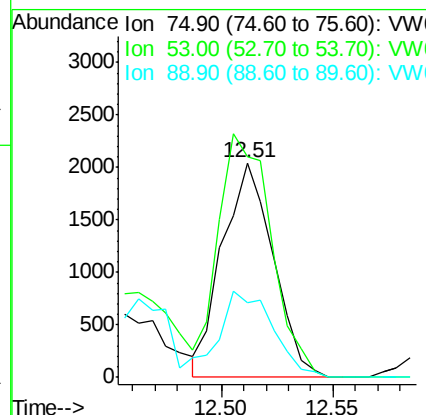
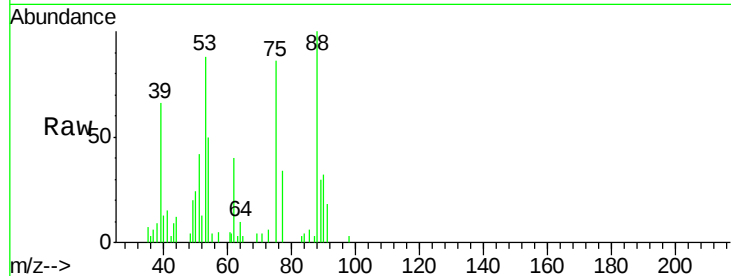
#81
trans-1,4-Dichloro-2-butene
Concen: 3.723 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 3246
Ion Ratio Lower Upper
75 100
53 117.9 75.0 112.6#
89 41.3 37.6 56.4

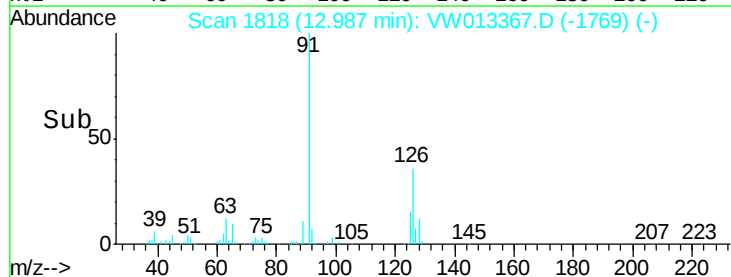
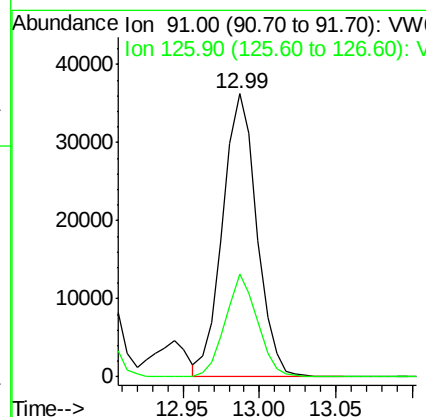
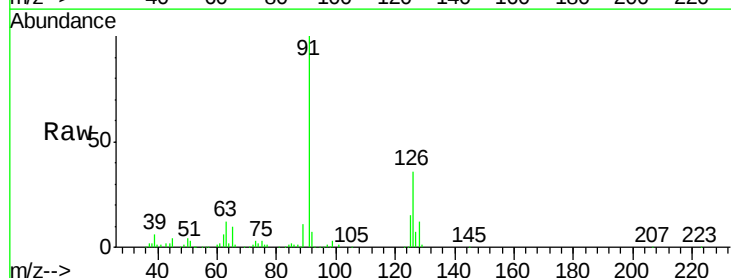
Manual Integrations
APPROVED

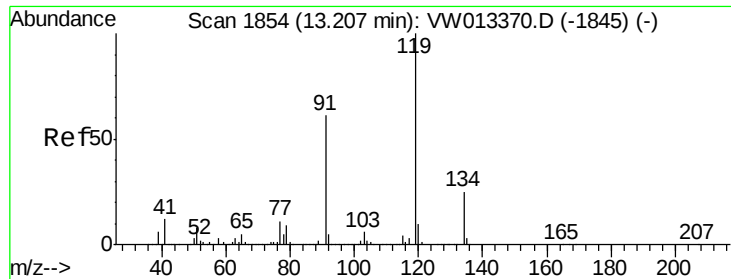
MMDadoda
10/14/2019 9:11:52 AM



#82
4-Chlorotoluene
Concen: 4.990 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion: 91 Resp: 56346
Ion Ratio Lower Upper
91 100
126 34.1 18.1 54.4





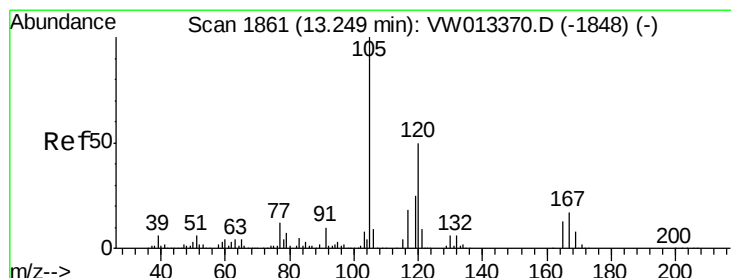
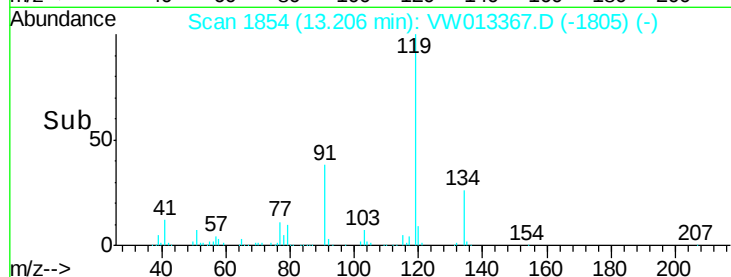
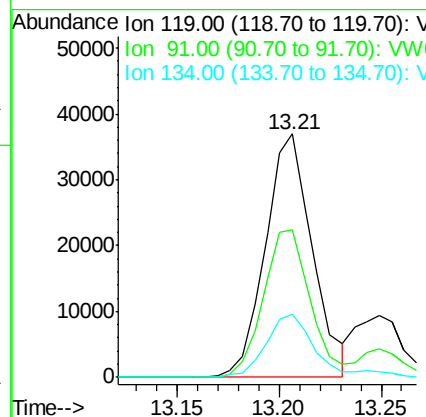
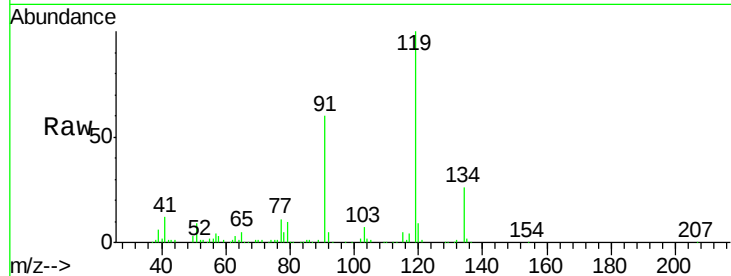
#83
tert-Butylbenzene
Concen: 4.733 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.3	29.9	89.7
134	25.9	13.9	41.6

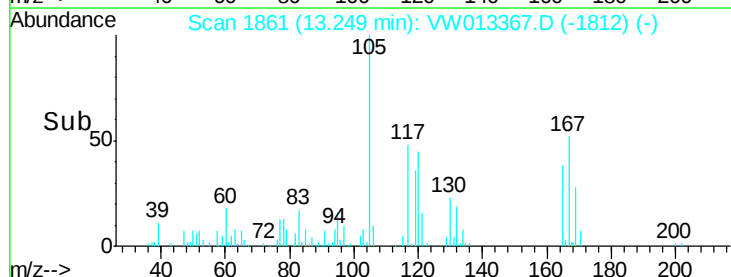
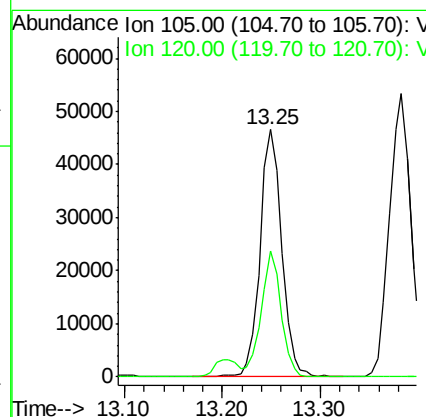
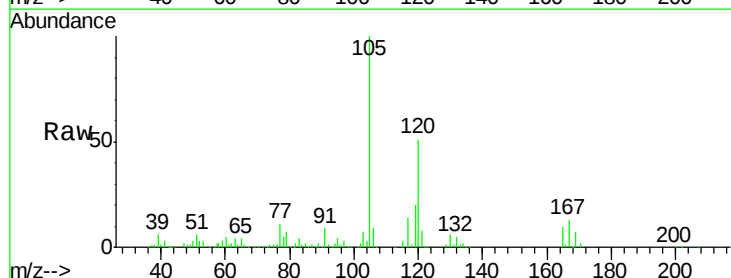
Manual Integrations
APPROVED

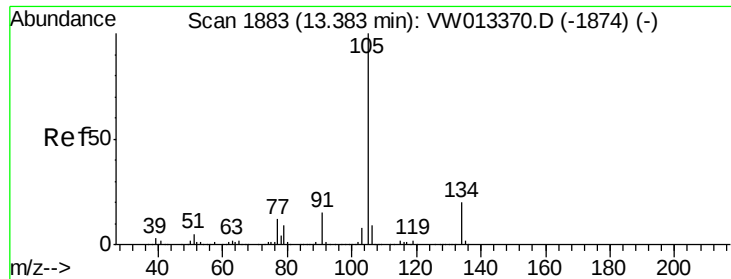
MMDadoda
10/14/2019 9:11:52 AM



#84
1,2,4-Trimethylbenzene
Concen: 5.099 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.6	70.8





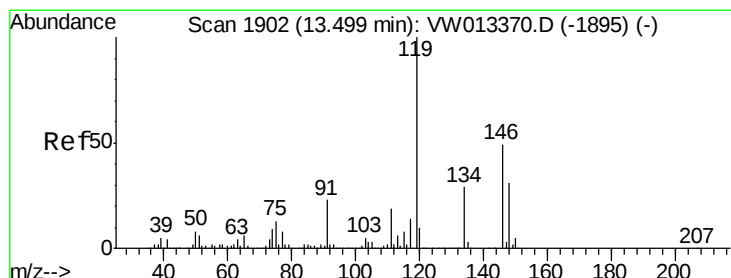
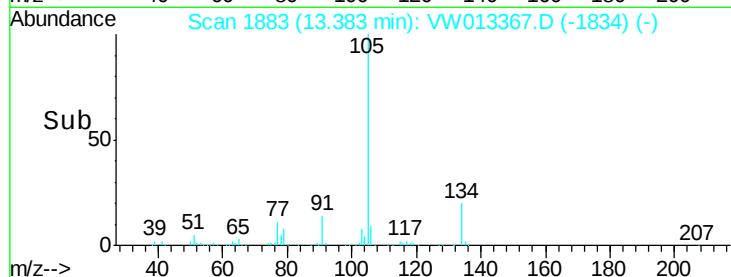
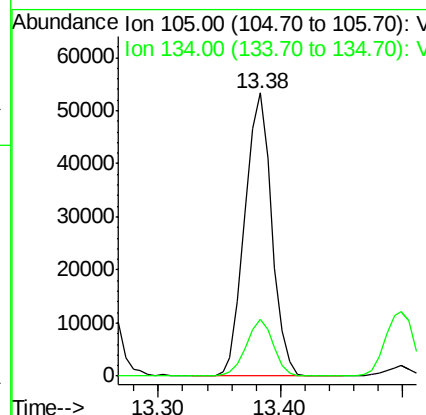
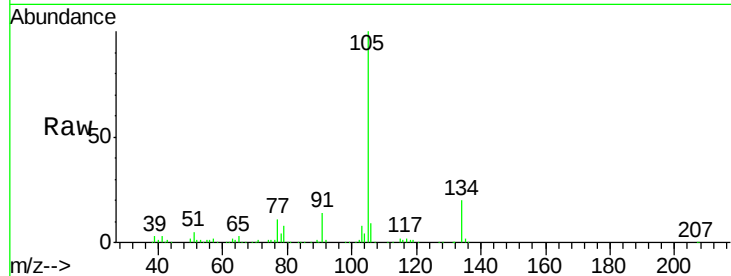
#85
 sec-Butylbenzene
 Concen: 4.718 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

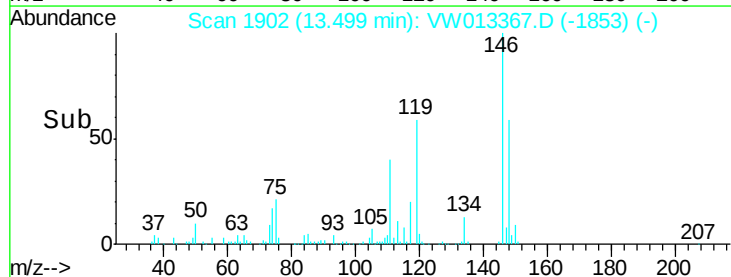
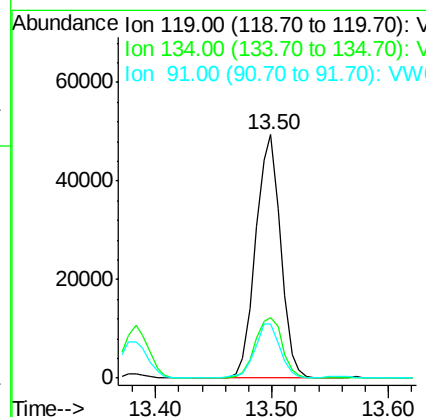
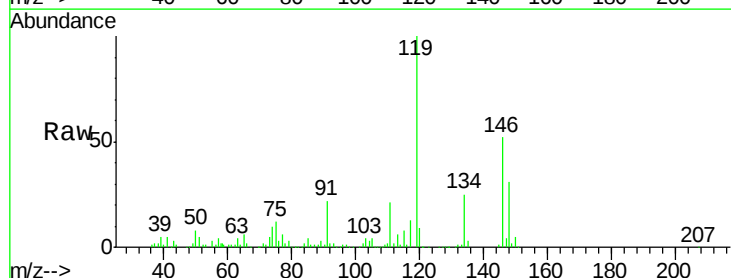
Manual Integrations
 APPROVED

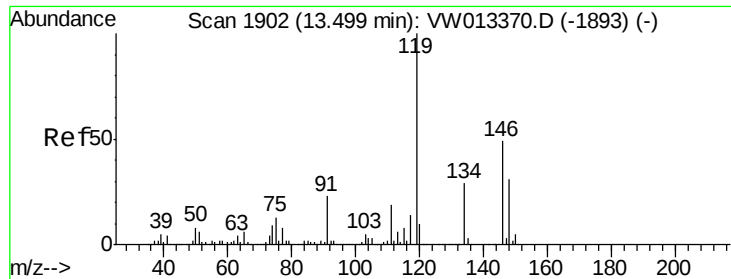
MMDadoda
 10/14/2019 9:11:52 AM



#86
 p-Isopropyltoluene
 Concen: 4.610 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.4	40.2
91	22.9	11.1	33.1





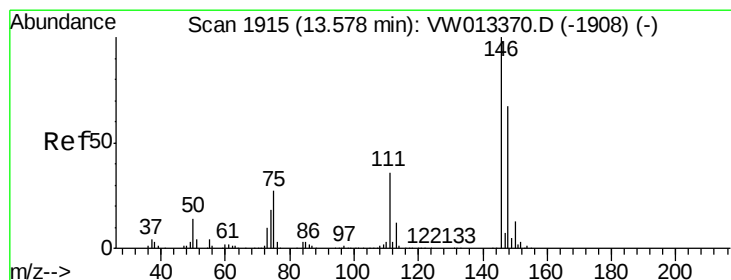
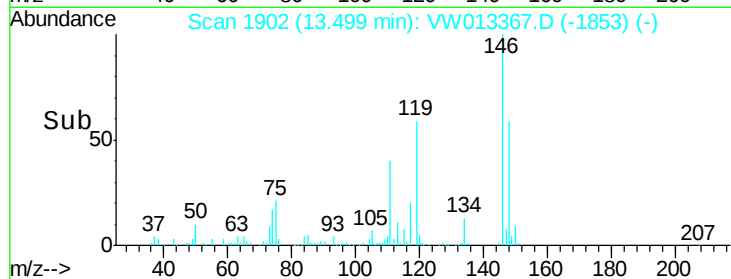
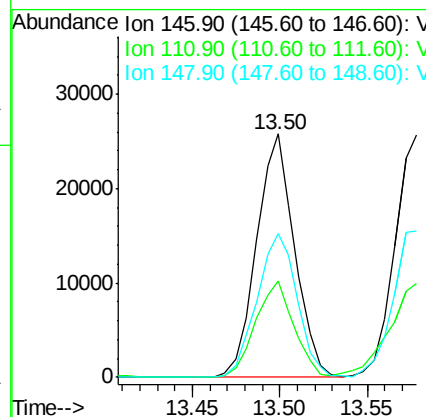
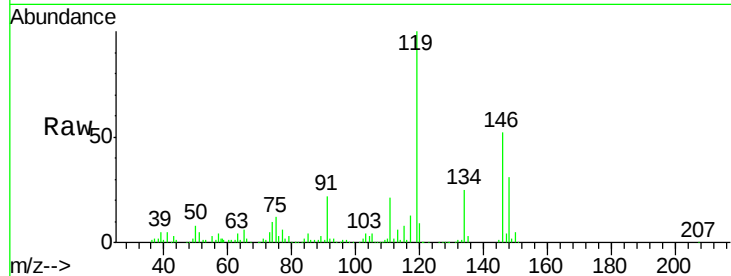
#87
 1,3-Dichlorobenzene
 Concen: 5.016 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.9	56.7
148	62.5	31.8	95.3

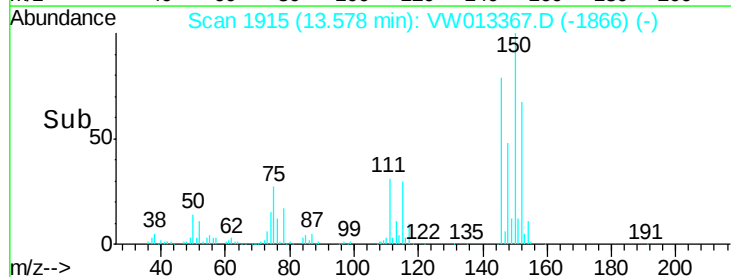
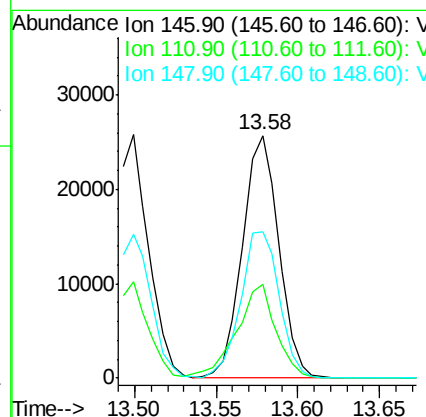
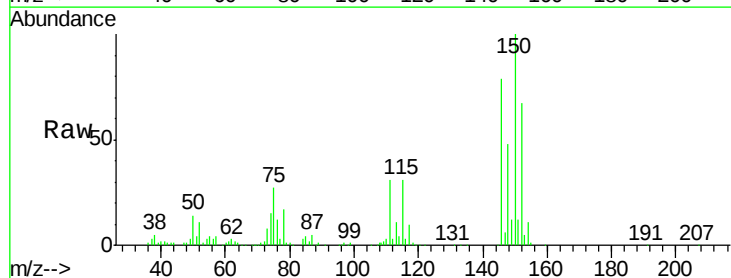
Manual Integrations
 APPROVED

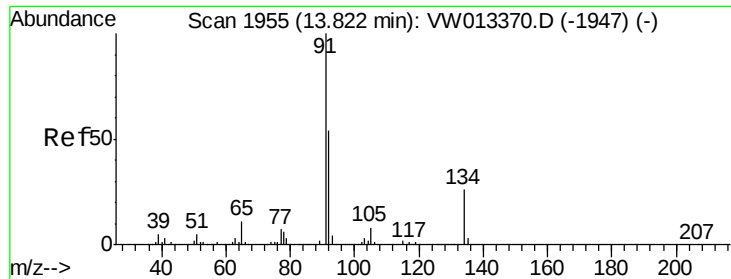
MMDadoda
 10/14/2019 9:11:52 AM



#88
 1,4-Dichlorobenzene
 Concen: 5.159 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	18.2	54.6
148	64.1	32.4	97.0





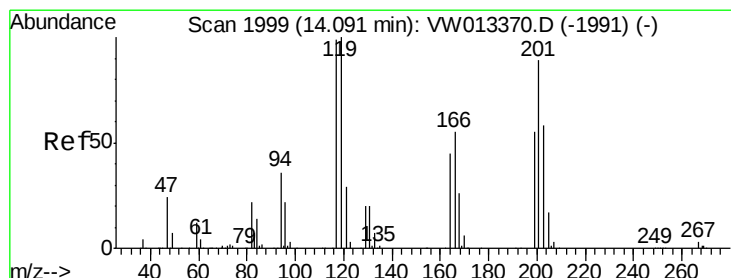
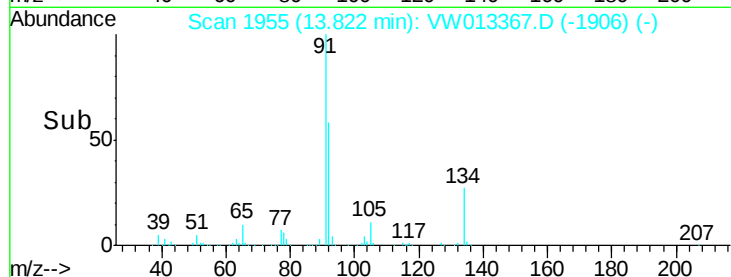
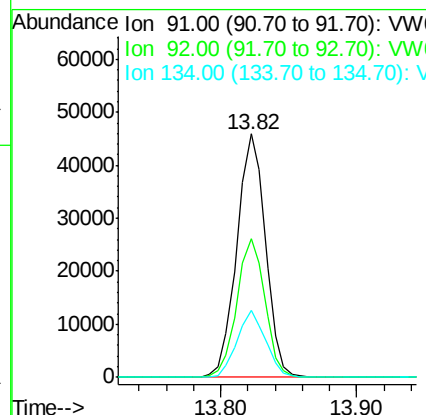
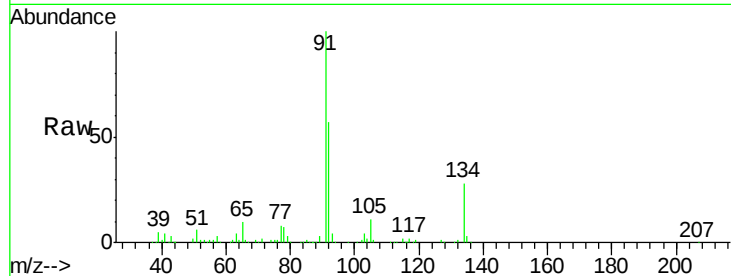
#89
n-Butylbenzene
Concen: 4.665 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.9	27.3	81.8
134	27.2	13.8	41.4

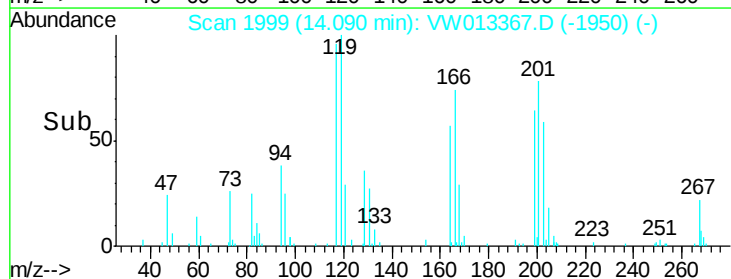
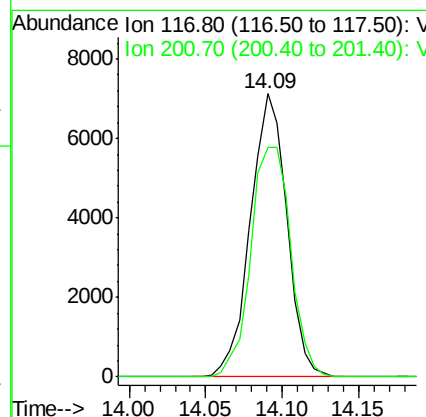
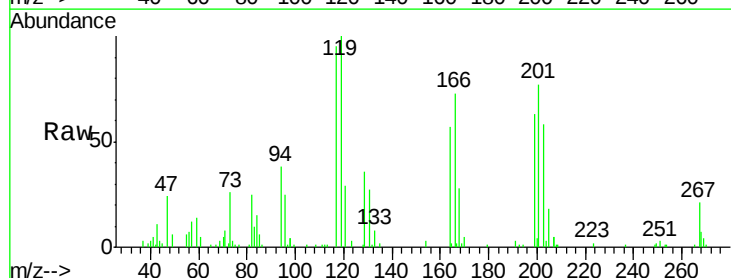
Manual Integrations
APPROVED

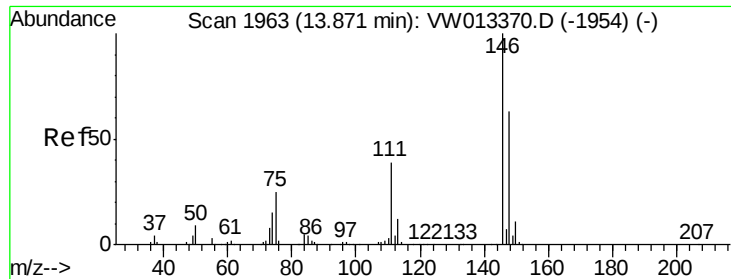
MMDadoda
10/14/2019 9:11:52 AM



#90
Hexachloroethane
Concen: 4.512 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.8	46.9	140.6





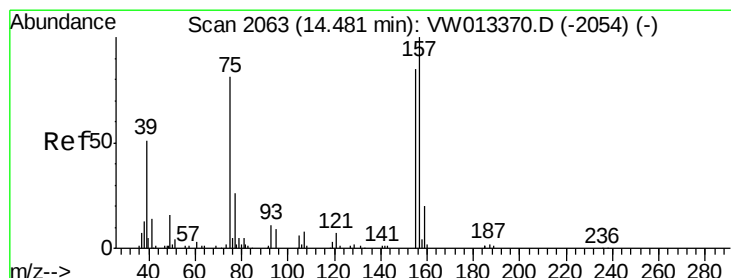
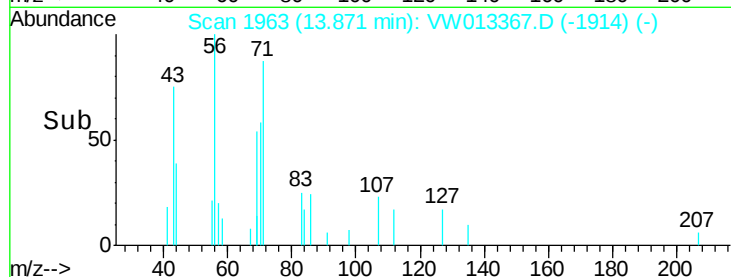
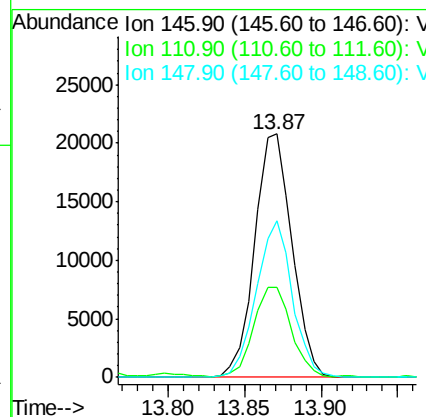
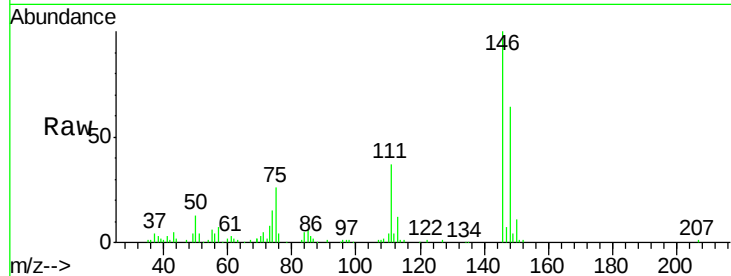
#91
 1,2-Dichlorobenzene
 Concen: 5.156 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.8	59.3
148	62.3	31.8	95.4

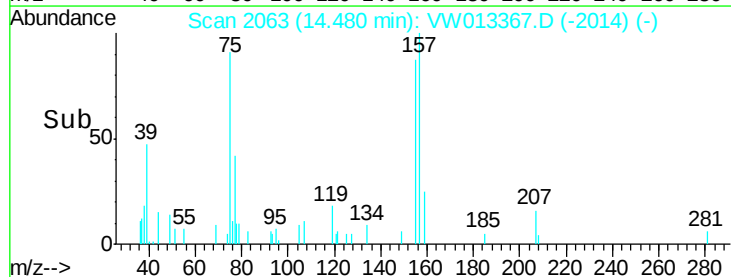
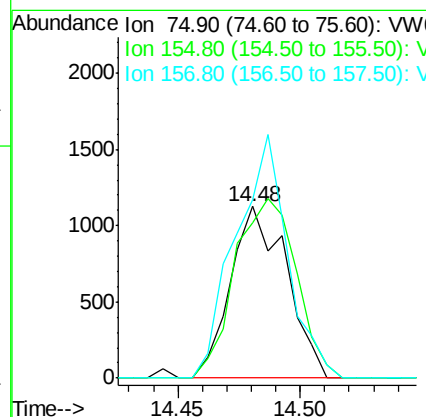
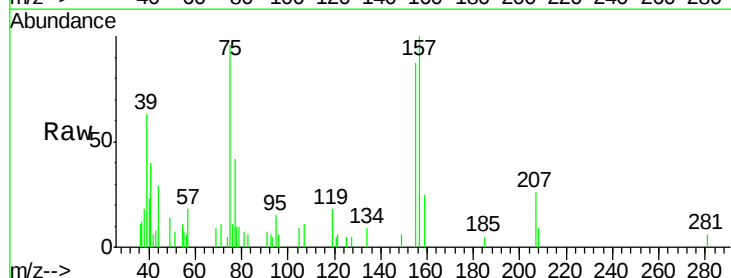
Manual Integrations
 APPROVED

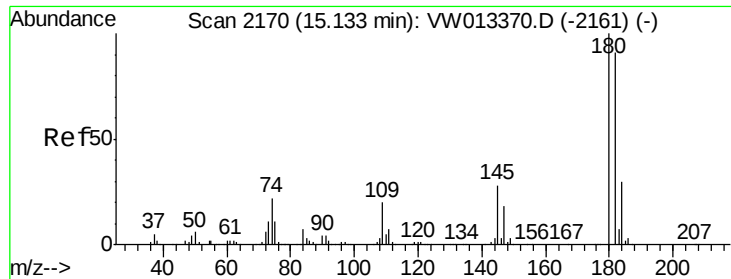
MMDadoda
 10/14/2019 9:11:52 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.017 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW013367.D
 Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	115.2	54.4	163.2
157	131.7	66.1	198.3





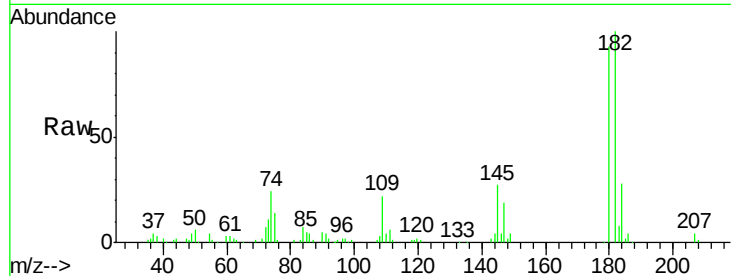
#93
1,2,4-Trichlorobenzene
Concen: 4.769 ug/l
RT: 15.13 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	102.6	46.9	140.7	
145	29.2	13.9	41.7	

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM

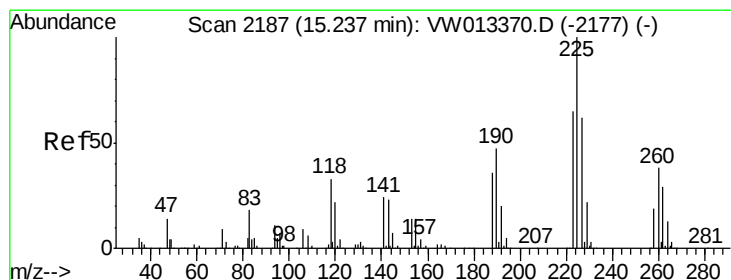
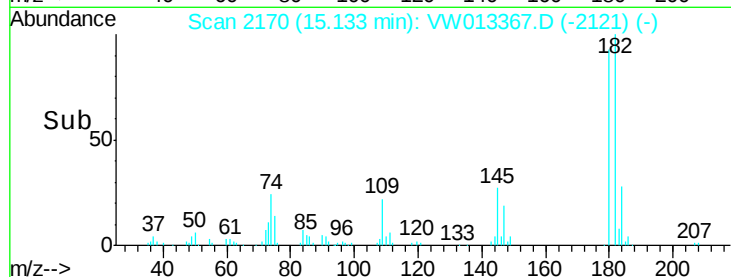
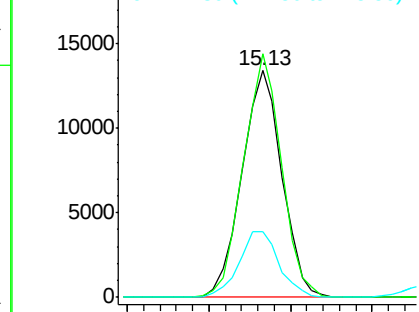


Abundance

Ion 179.80 (179.50 to 180.50): V

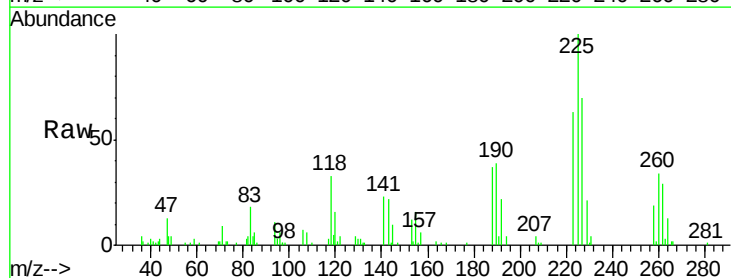
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 4.952 ug/l
RT: 15.24 min Scan# 2187
Delta R.T. -0.00 min
Lab File: VW013367.D
Acq: 01 Oct 2019 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.0	32.2	96.6	
227	64.2	32.3	96.9	

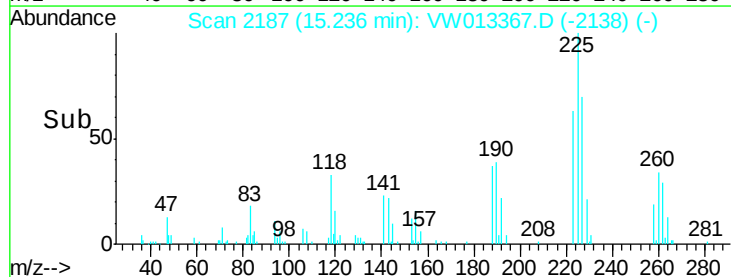
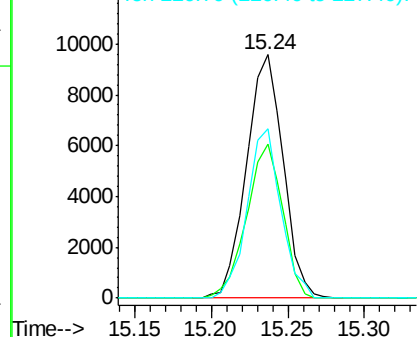


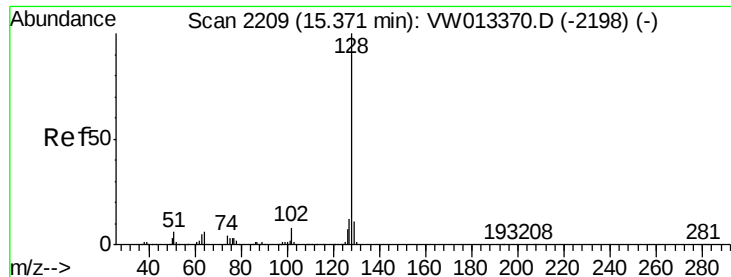
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 4.490 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Instrument :

MSVOA_W

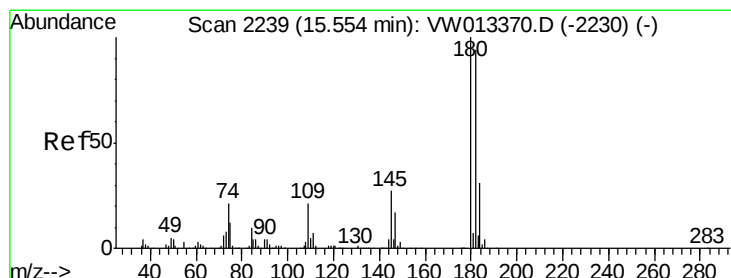
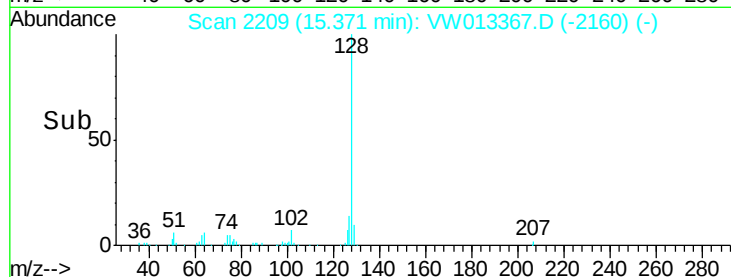
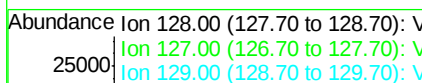
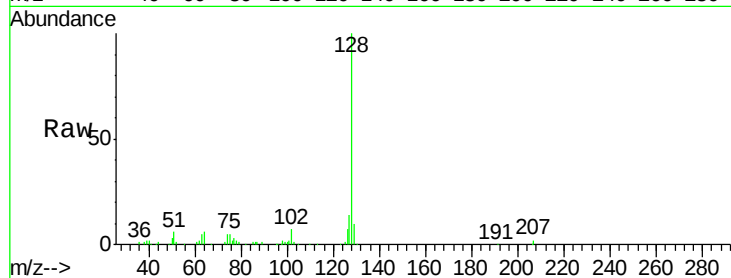
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	35308
Ion Ratio	Lower	Upper	
128	100		
127	14.5	10.5	15.7
129	12.2	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/14/2019 9:11:52 AM



#96

1,2,3-Trichlorobenzene

Concen: 4.952 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013367.D

Acq: 01 Oct 2019 12:35

Tgt Ion:	180	Resp:	20732
Ion Ratio	Lower	Upper	
180	100		
182	97.6	47.6	142.9
145	31.6	14.9	44.7

