

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100719\
 Data File : VW013452.D
 Acq On : 07 Oct 2019 10:04
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/8/2019 1:30:55 PM

Quant Time: Oct 07 16:57:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 11:49:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	346541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	498169	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	424574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	213677	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	137830	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
35) Dibromofluoromethane	7.88	113	144117	55.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.26%	
50) Toluene-d8	10.32	98	599050	55.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.44%	
62) 4-Bromofluorobenzene	12.62	95	204633	56.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	77918	58.132	ug/l	96
3) Chloromethane	2.21	50	116935	52.868	ug/l	98
4) Vinyl Chloride	2.36	62	174375	55.550	ug/l	98
5) Bromomethane	2.78	94	101888	52.831	ug/l	96
6) Chloroethane	2.92	64	96934	53.478	ug/l	98
7) Trichlorofluoromethane	3.25	101	86237	63.323	ug/l	97
8) Diethyl Ether	3.68	74	83651	53.069	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	164107	54.352	ug/l	99
10) Methyl Iodide	4.26	142	265577	54.466	ug/l	99
11) Tert butyl alcohol	5.18	59	55503	260.603	ug/l #	90
12) 1,1-Dichloroethene	4.04	96	174729	54.773	ug/l	99
13) Acrolein	3.89	56	78151	296.663	ug/l	98
14) Allyl chloride	4.66	41	276466	58.584	ug/l	98
15) Acrylonitrile	5.37	53	184493	258.914	ug/l	98
16) Acetone	4.13	43	205494	259.094	ug/l	97
17) Carbon Disulfide	4.38	76	502664	56.483	ug/l	98
18) Methyl Acetate	4.67	43	92663	49.917	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	256560	54.644	ug/l	98
20) Methylene Chloride	4.91	84	171550	51.878	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	184301	54.250	ug/l	98
22) Diisopropyl ether	6.31	45	504006	55.303	ug/l	98
23) Vinyl Acetate	6.25	43	1538528	281.342	ug/l	98
24) 1,1-Dichloroethane	6.21	63	304467	54.849	ug/l	99
25) 2-Butanone	7.17	43	260789	256.969	ug/l	93
26) 2,2-Dichloropropane	7.16	77	187989	58.826	ug/l	97
27) cis-1,2-Dichloroethene	7.17	96	195431	54.958	ug/l	98
28) Bromochloromethane	7.51	49	114310	56.956	ug/l	96
29) Tetrahydrofuran	7.52	42	154303	260.961	ug/l	99
30) Chloroform	7.67	83	292431	53.726	ug/l	99
31) Cyclohexane	7.95	56	307009	51.862	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	240134	56.314	ug/l	98
36) 1,1-Dichloropropene	8.08	75	252451	54.560	ug/l	99
37) Ethyl Acetate	7.25	43	107880	52.819	ug/l	98
38) Carbon Tetrachloride	8.07	117	224918	56.115	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV100719\
 Data File : VW013452.D
 Acq On : 07 Oct 2019 10:04
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/8/2019 1:30:55 PM

Quant Time: Oct 07 16:57:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 11:49:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	328780	53.954	ug/l	98
40) Benzene	8.32	78	707866	54.043	ug/l	100
41) Methacrylonitrile	7.48	41	64597	52.464	ug/l	98
42) 1,2-Dichloroethane	8.40	62	179387	53.287	ug/l	97
43) Isopropyl Acetate	8.42	43	201177	52.343	ug/l	100
44) Trichloroethene	9.09	130	202337	54.857	ug/l	95
45) 1,2-Dichloropropane	9.37	63	172435	54.831	ug/l	99
46) Dibromomethane	9.46	93	82712	52.803	ug/l	97
47) Bromodichloromethane	9.64	83	214605	55.653	ug/l	96
48) Methyl methacrylate	9.43	41	100433	54.384	ug/l	98
49) 1,4-Dioxane	9.47	88	27971	1161.294	ug/l #	90
51) 4-Methyl-2-Pentanone	10.21	43	513402	254.244	ug/l	98
52) Toluene	10.38	92	455447	53.910	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	228544	56.980	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	272817	56.100	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	124132	53.122	ug/l	98
56) Ethyl methacrylate	10.65	69	171906	54.656	ug/l	98
57) 1,3-Dichloropropane	10.93	76	214917	52.905	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	348295	269.580	ug/l	99
59) 2-Hexanone	10.97	43	395399	282.498	ug/l	99
60) Dibromochloromethane	11.13	129	147980	55.356	ug/l	100
61) 1,2-Dibromoethane	11.23	107	118960	52.684	ug/l	100
64) Tetrachloroethene	10.86	164	171354	53.049	ug/l	99
65) Chlorobenzene	11.66	112	468798	53.896	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	167766	56.628	ug/l	100
67) Ethyl Benzene	11.73	91	859386	55.126	ug/l	98
68) m/p-Xylenes	11.84	106	663153	110.207	ug/l	99
69) o-Xylene	12.16	106	310315	55.777	ug/l	96
70) Styrene	12.18	104	538036	56.573	ug/l	99
71) Bromoform	12.35	173	92105	57.343	ug/l #	99
73) Isopropylbenzene	12.46	105	860542	55.057	ug/l	100
74) N-amyl acetate	12.27	43	183055	55.031	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	139434	52.706	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	110157m	58.005	ug/l	
77) Bromobenzene	12.74	156	201294	53.635	ug/l	99
78) n-propylbenzene	12.80	91	998351	55.529	ug/l	99
79) 2-Chlorotoluene	12.89	91	552852	55.363	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	713644	54.965	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	49884	55.365	ug/l	93
82) 4-Chlorotoluene	12.99	91	575934	55.057	ug/l	100
83) tert-Butylbenzene	13.21	119	632920	55.809	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	705462	54.656	ug/l	99
85) sec-Butylbenzene	13.38	105	870010	55.642	ug/l	99
86) p-Isopropyltoluene	13.50	119	802842	55.404	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	384766	54.493	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	377253	53.362	ug/l	100
89) n-Butylbenzene	13.82	91	736088	56.344	ug/l	99
90) Hexachloroethane	14.09	117	140312	58.609	ug/l	97
91) 1,2-Dichlorobenzene	13.87	146	338671	54.258	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	21812	55.122	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100719\
Data File : VW013452.D
Acq On : 07 Oct 2019 10:04
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

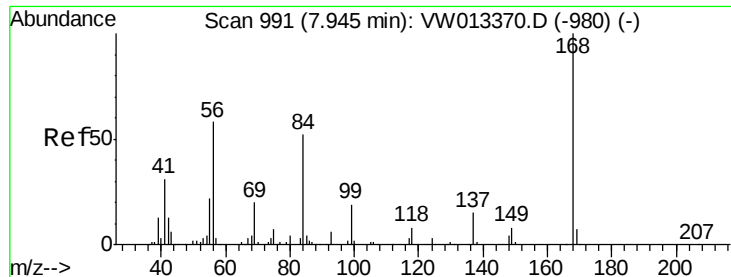
Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM

Quant Time: Oct 07 16:57:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	252047	56.267	ug/l	99
94) Hexachlorobutadiene	15.24	225	164312	56.467	ug/l	99
95) Naphthalene	15.36	128	434624	57.517	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	216640	55.392	ug/l	100

(#) = 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: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 346541

Ion Ratio Lower Upper

168 100

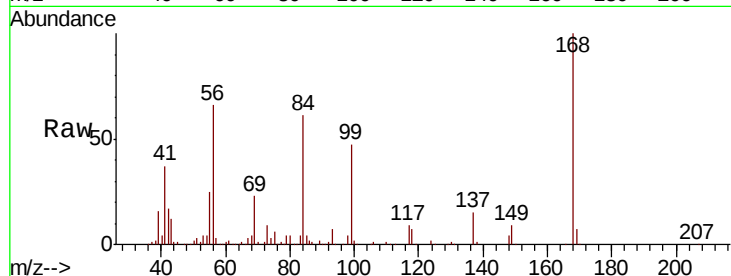
99 46.6 40.2 60.4

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

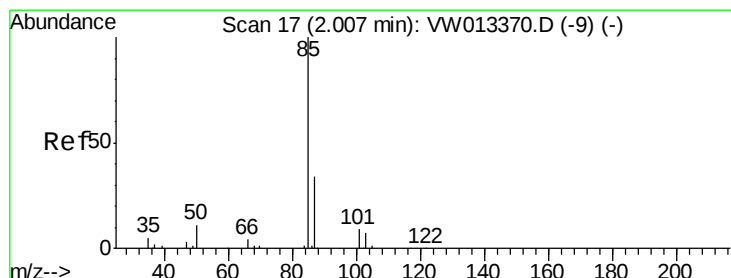
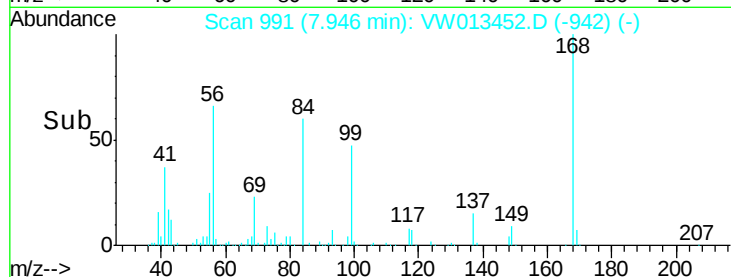
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 58.132 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013452.D

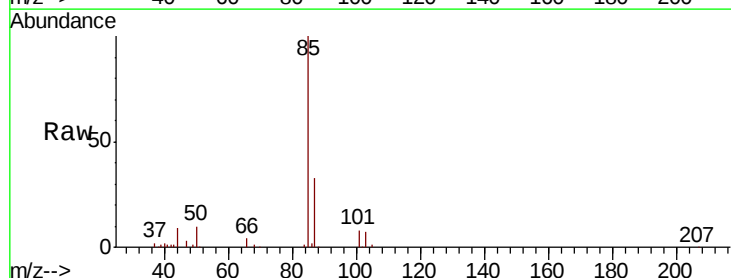
Acq: 07 Oct 2019 10:04

Tgt Ion: 85 Resp: 77918

Ion Ratio Lower Upper

85 100

87 32.5 15.1 45.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

30000

25000

20000

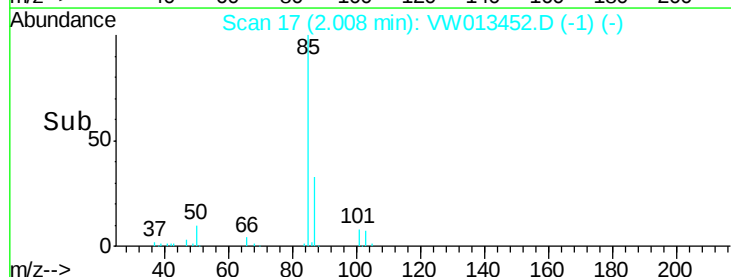
15000

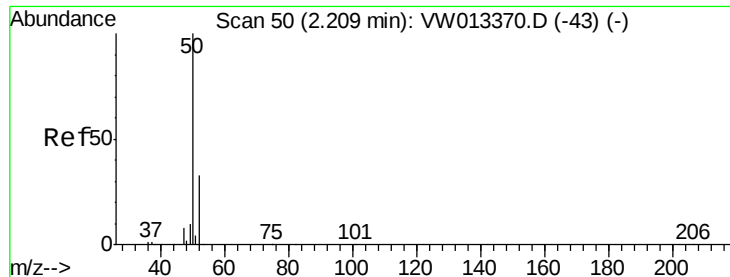
10000

5000

0

Time--> 1.90 2.00 2.10 2.20 2.30





#3

Chloromethane

Concen: 52.868 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 116935

Ion Ratio Lower Upper

50 100

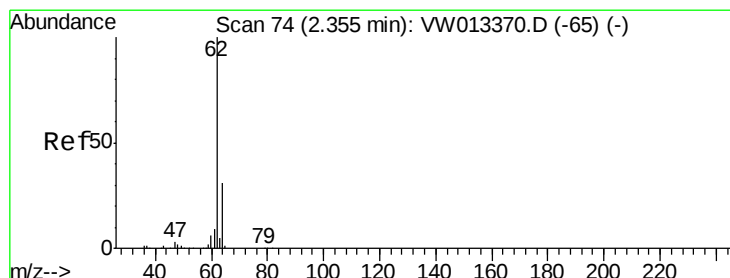
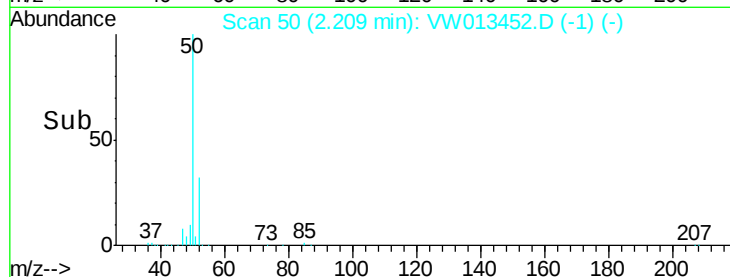
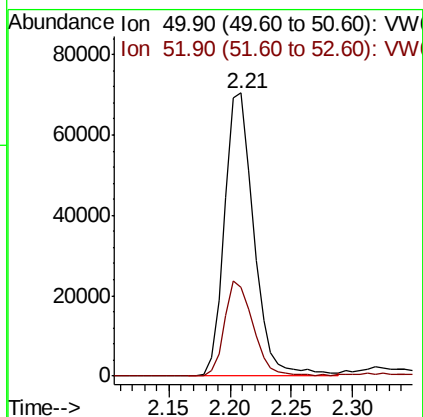
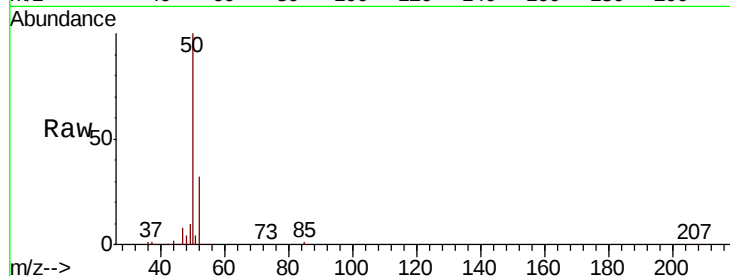
52 31.6 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#4

Vinyl Chloride

Concen: 55.550 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013452.D

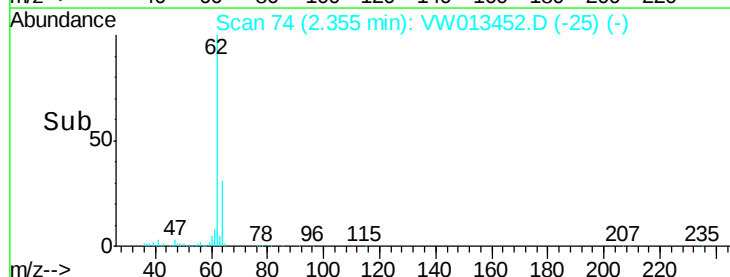
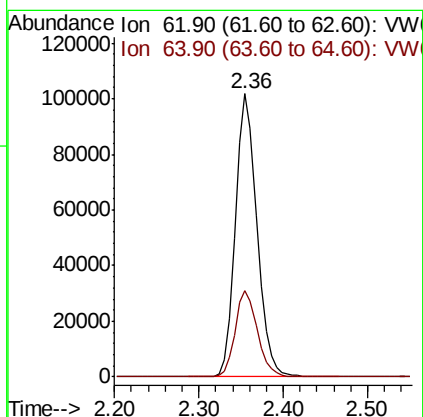
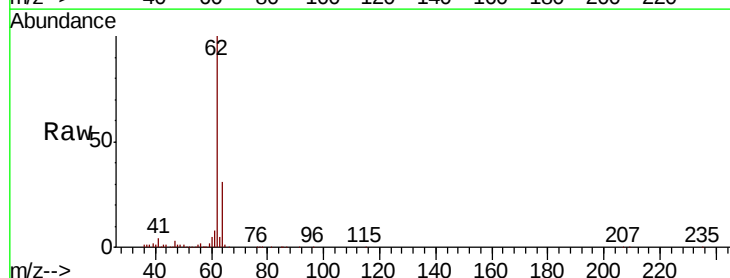
Acq: 07 Oct 2019 10:04

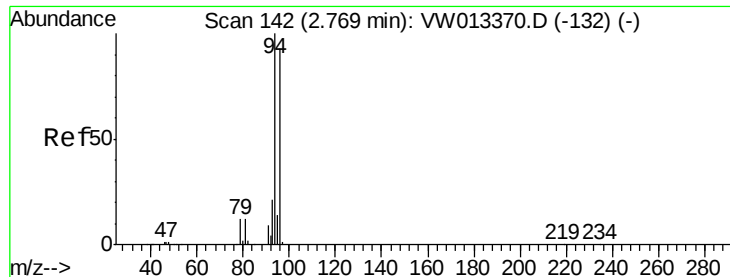
Tgt Ion: 62 Resp: 174375

Ion Ratio Lower Upper

62 100

64 30.5 25.3 37.9





#5

Bromomethane

Concen: 52.831 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 101888

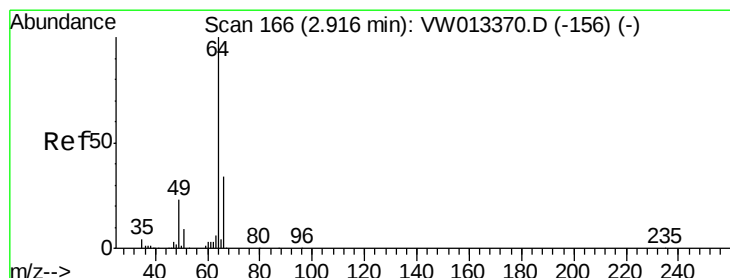
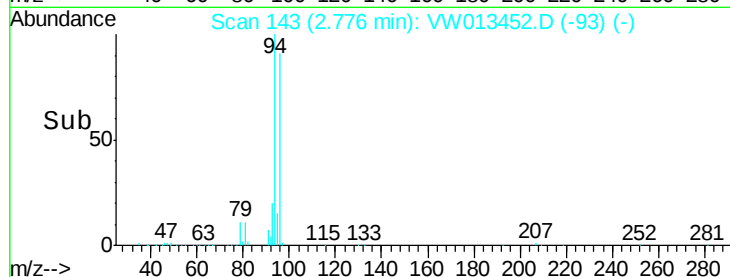
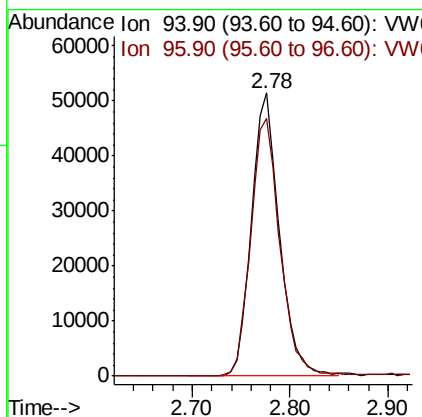
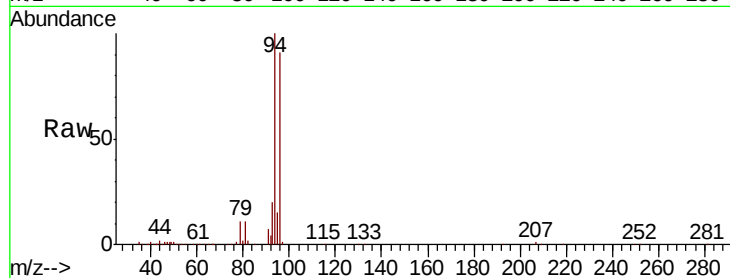
Ion Ratio Lower Upper

94 100

96 91.1 69.7 104.5

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#6

Chloroethane

Concen: 53.478 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW013452.D

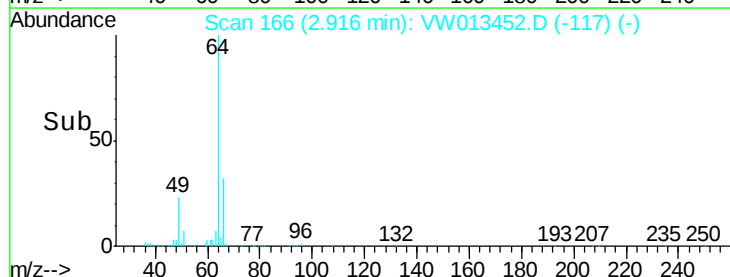
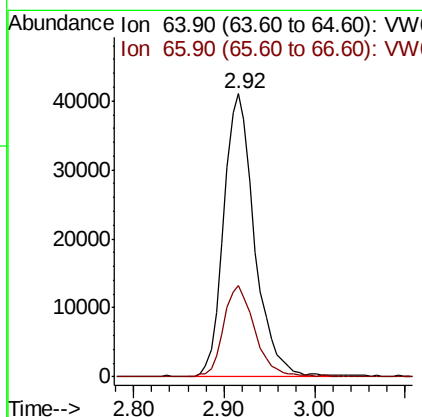
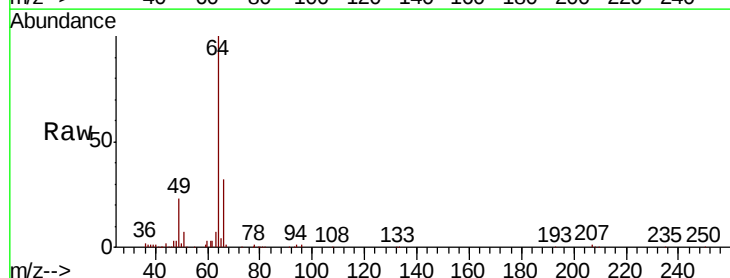
Acq: 07 Oct 2019 10:04

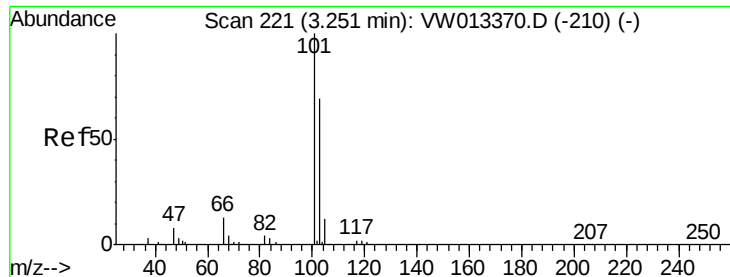
Tgt Ion: 64 Resp: 96934

Ion Ratio Lower Upper

64 100

66 32.0 26.6 39.8





#7

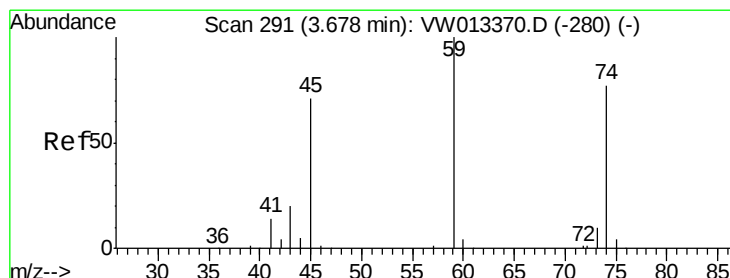
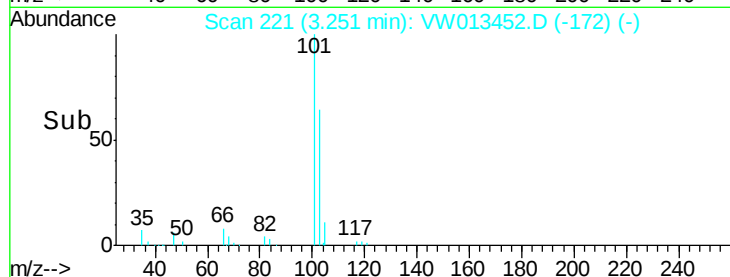
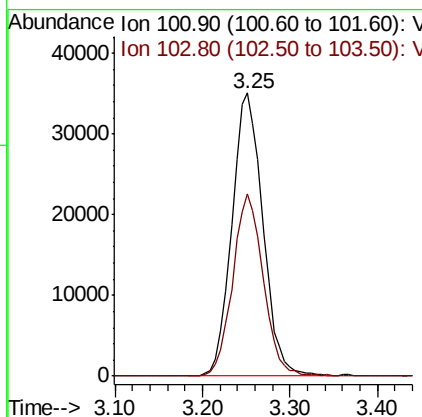
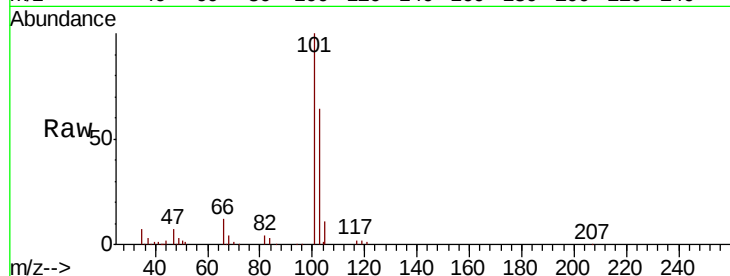
Trichlorofluoromethane
Concen: 63.323 ug/l
RT: 3.25 min Scan# 221
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	49.7	74.5

Manual Integrations
APPROVED

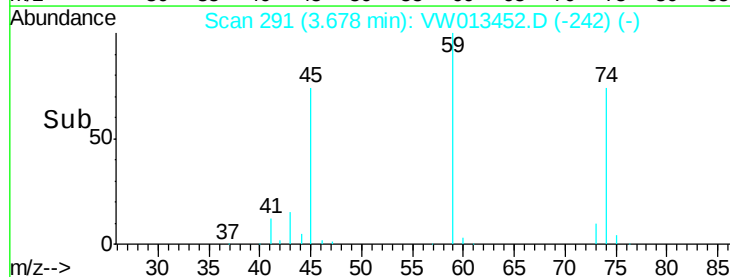
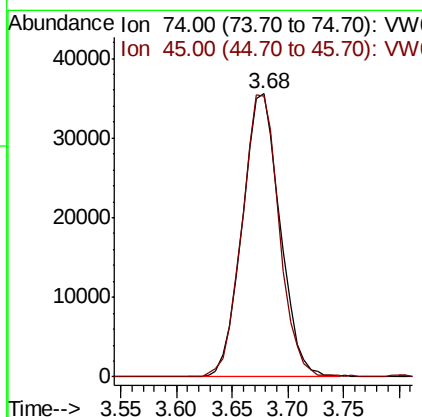
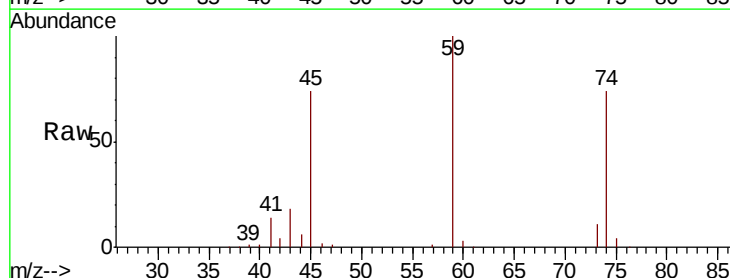
MMDadoda
10/8/2019 1:30:55 PM

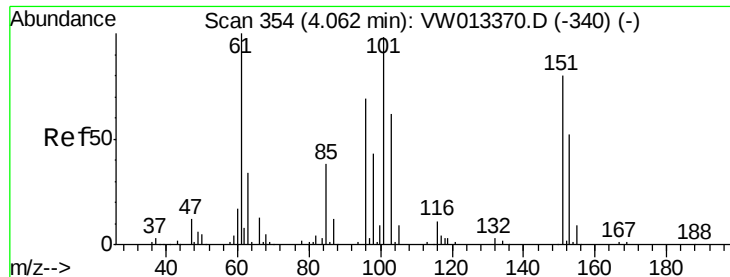


#8

Diethyl Ether
Concen: 53.069 ug/l
RT: 3.68 min Scan# 291
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.3	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.352 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

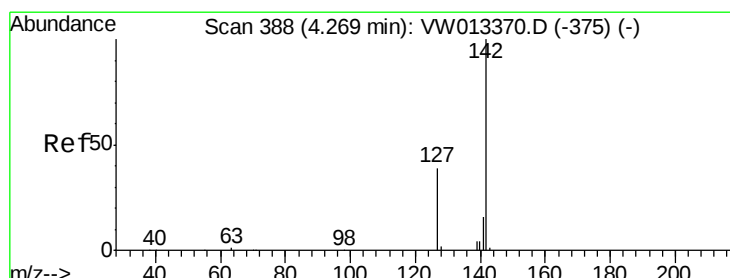
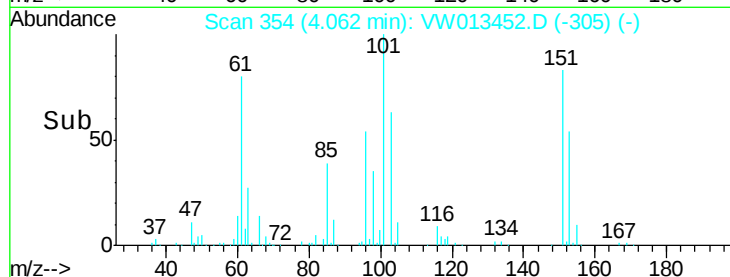
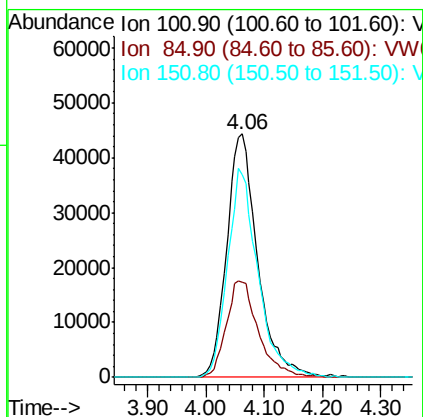
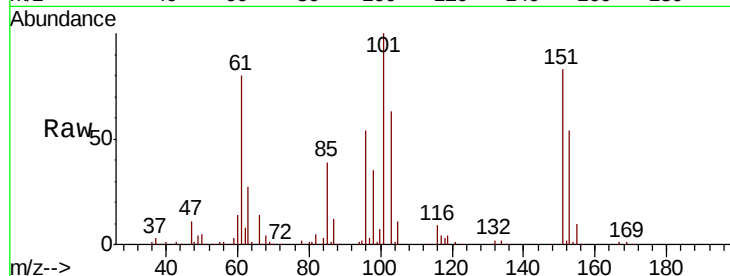
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	164107
Ion Ratio	Lower	Upper	
101	100		
85	41.2	33.4	50.0
151	84.3	66.9	100.3

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#10

Methyl Iodide

Concen: 54.466 ug/l

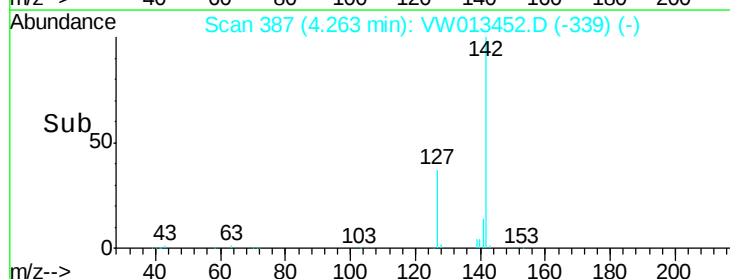
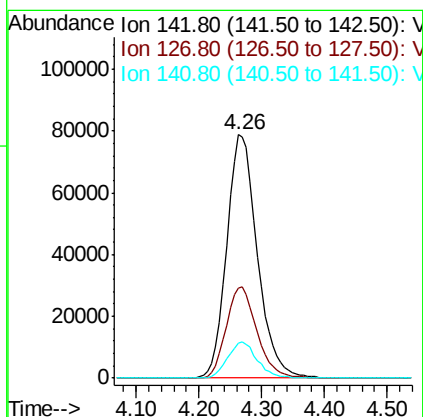
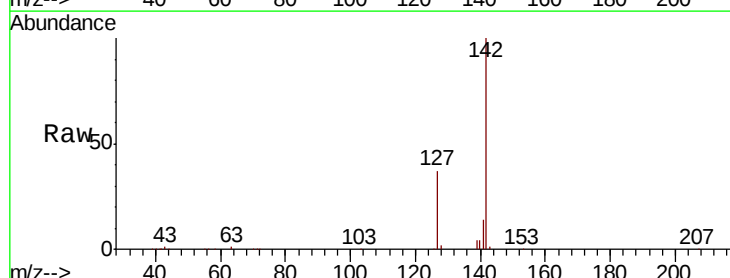
RT: 4.26 min Scan# 387

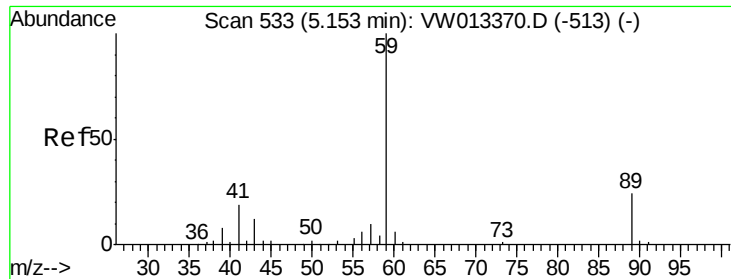
Delta R.T. -0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	142	Resp:	265577
Ion Ratio	Lower	Upper	
142	100		
127	37.6	30.9	46.3
141	14.5	11.7	17.5





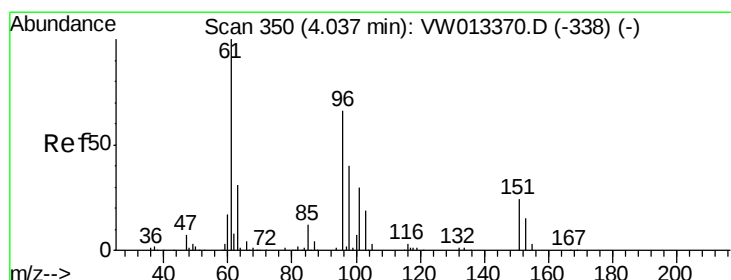
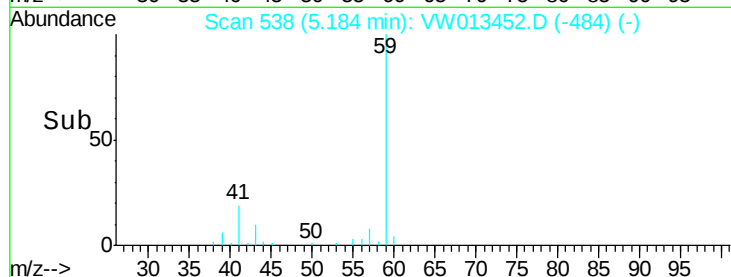
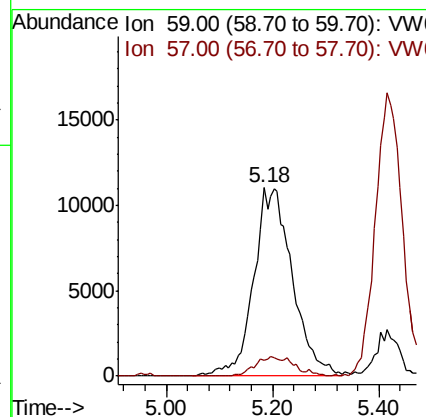
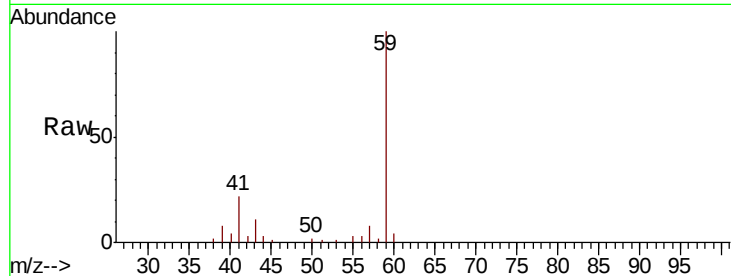
#11
Tert butyl alcohol
Concen: 260.603 ug/l
RT: 5.18 min Scan# 538
Delta R.T. 0.03 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.5	8.2	12.2#

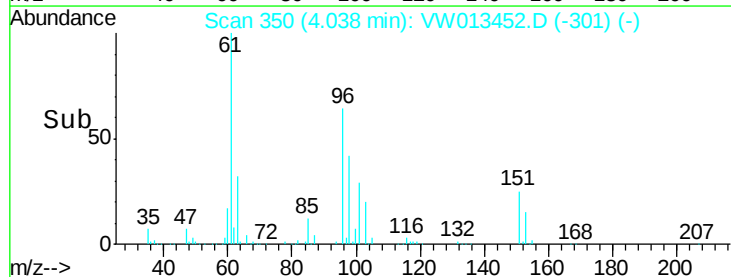
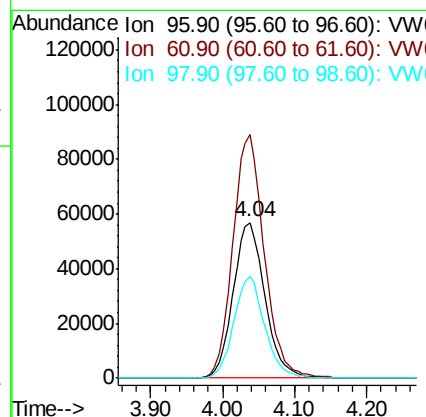
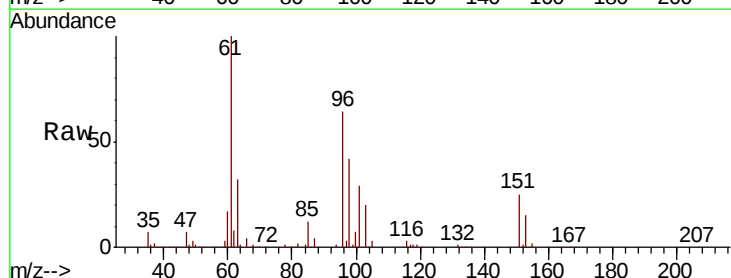
Manual Integrations
APPROVED

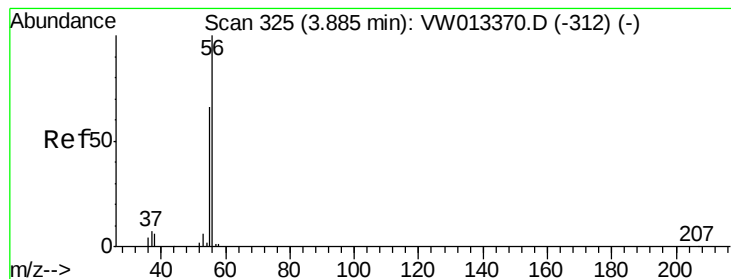
MMDadoda
10/8/2019 1:30:55 PM



#12
1,1-Dichloroethene
Concen: 54.773 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.7	125.1	187.7
98	65.1	50.8	76.2





#13

Acrolein

Concen: 296.663 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 78151

Ion Ratio Lower Upper

56 100

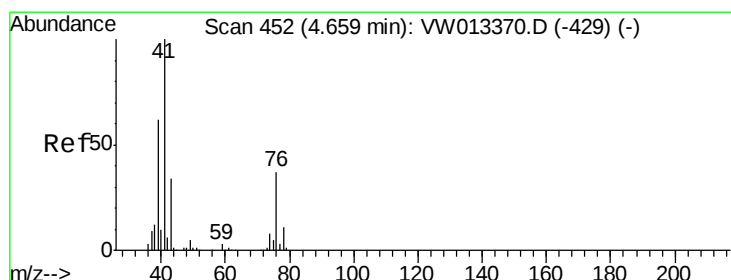
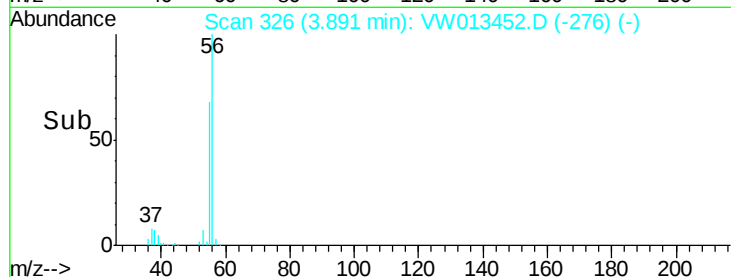
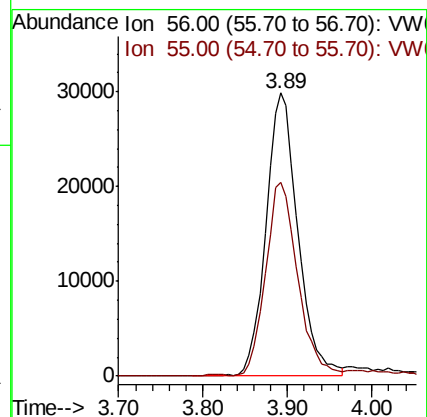
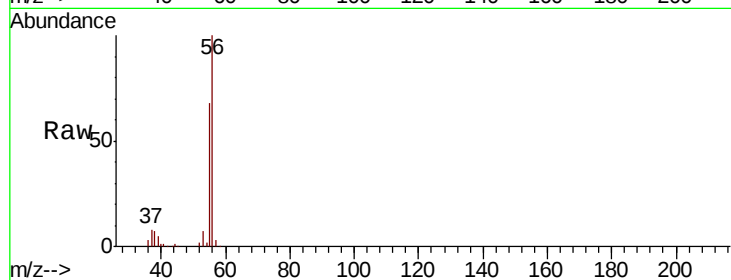
55 67.7 55.4 83.0

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#14

Allyl chloride

Concen: 58.584 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

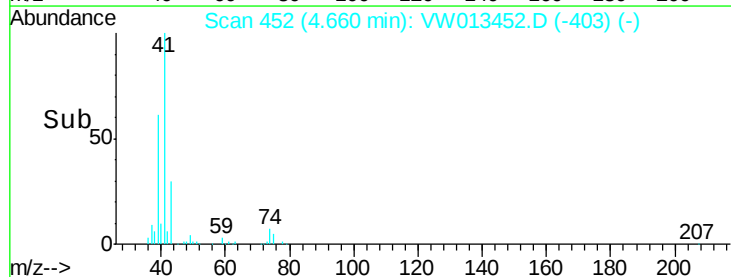
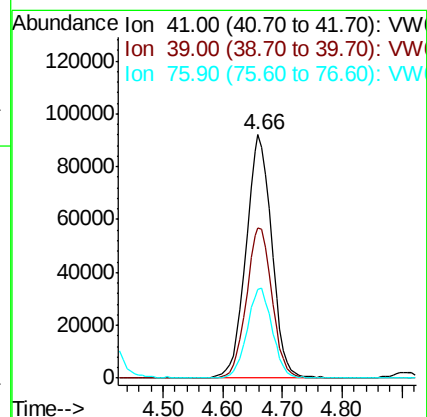
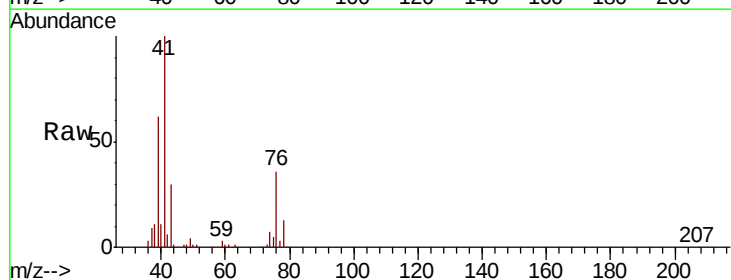
Tgt Ion: 41 Resp: 276466

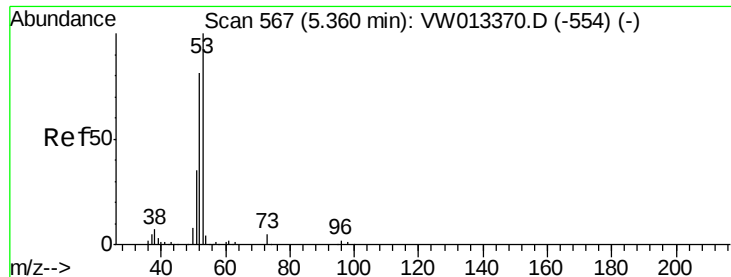
Ion Ratio Lower Upper

41 100

39 61.3 51.0 76.4

76 36.0 28.4 42.6





#15

Acrylonitrile

Concen: 258.914 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

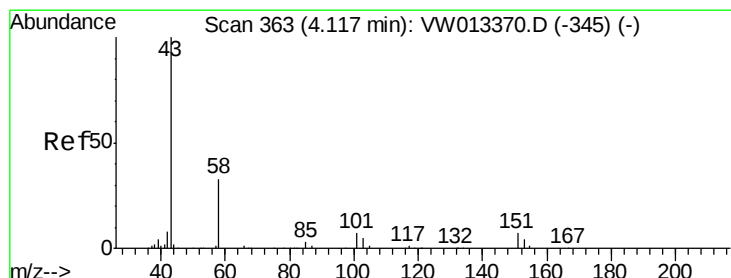
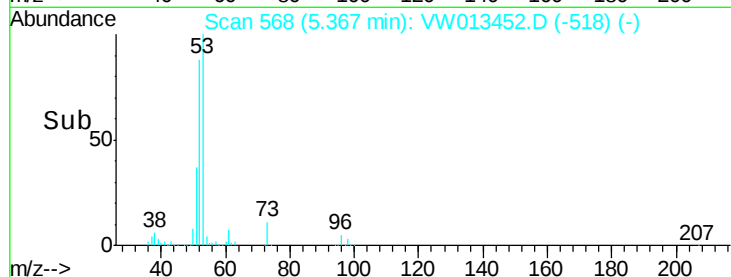
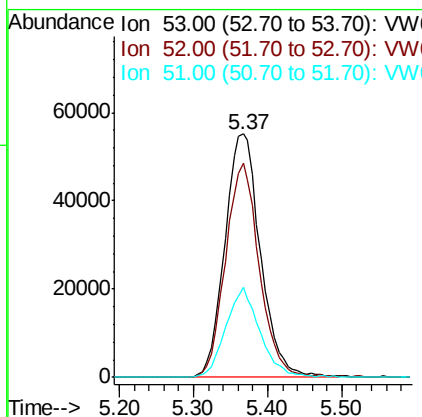
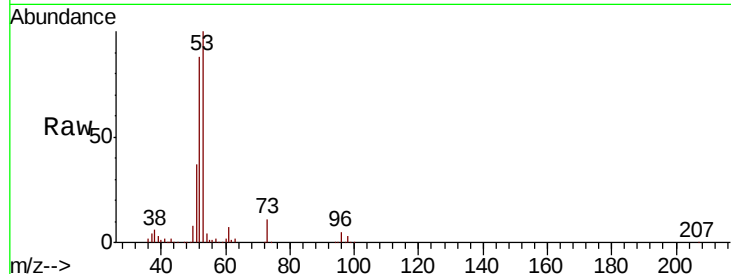
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	184493
Ion Ratio	Lower	Upper	
53	100		
52	83.6	65.3	97.9
51	35.6	29.0	43.4

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#16

Acetone

Concen: 259.094 ug/l

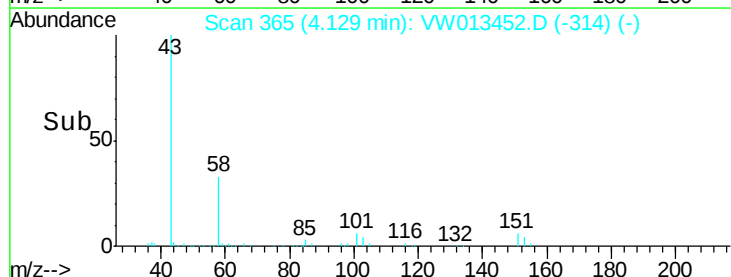
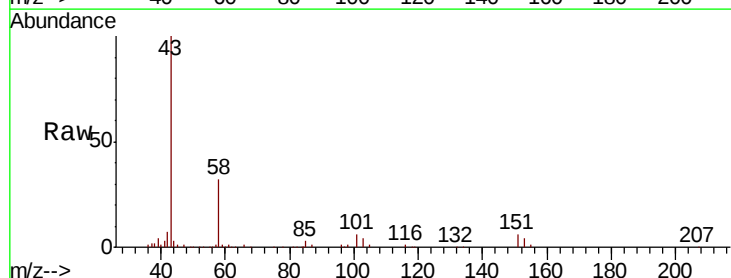
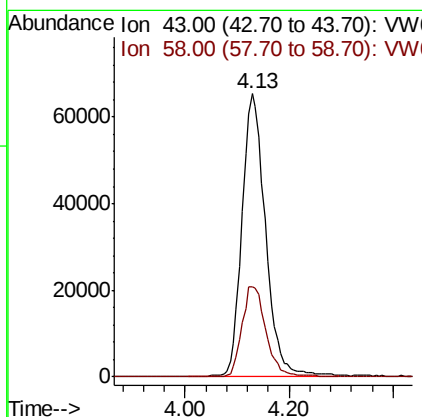
RT: 4.13 min Scan# 365

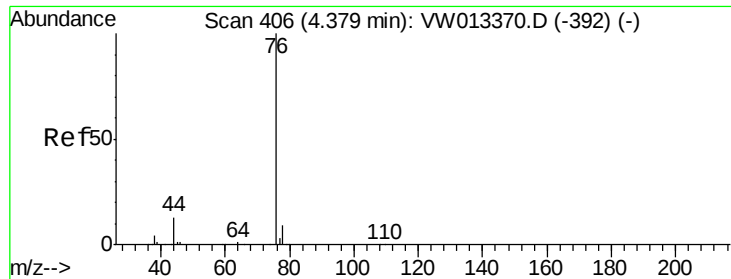
Delta R.T. 0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	43	Resp:	205494
Ion Ratio	Lower	Upper	
43	100		
58	32.0	24.1	36.1





#17

Carbon Disulfide

Concen: 56.483 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 502664

Ion Ratio Lower Upper

76 100

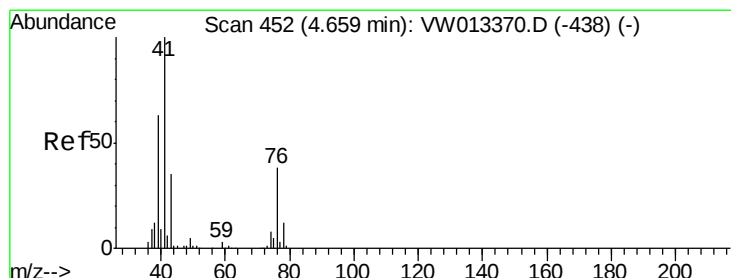
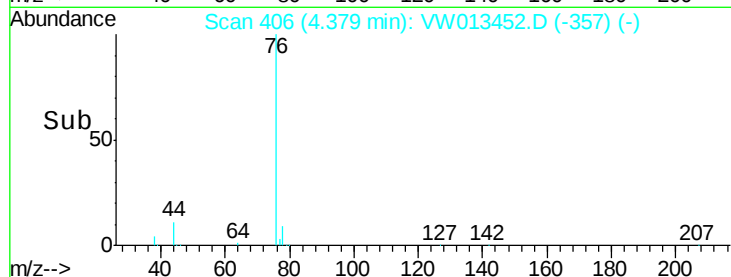
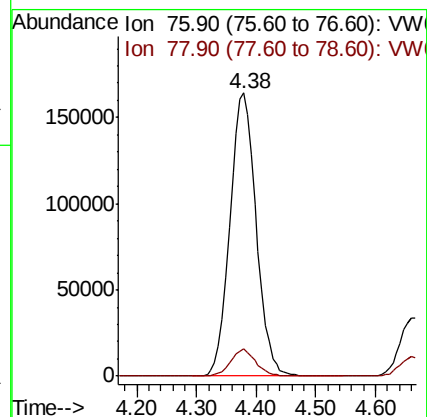
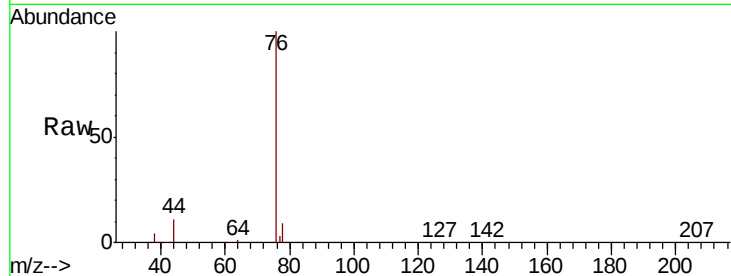
78 9.5 7.0 10.4

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#18

Methyl Acetate

Concen: 49.917 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW013452.D

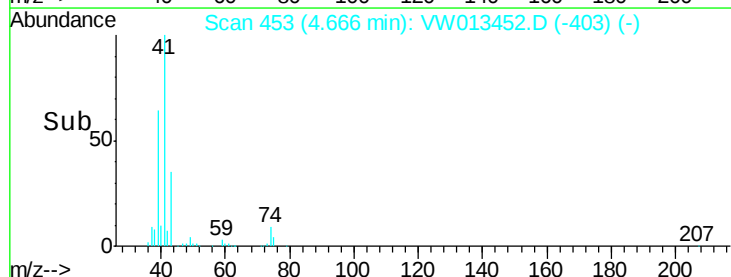
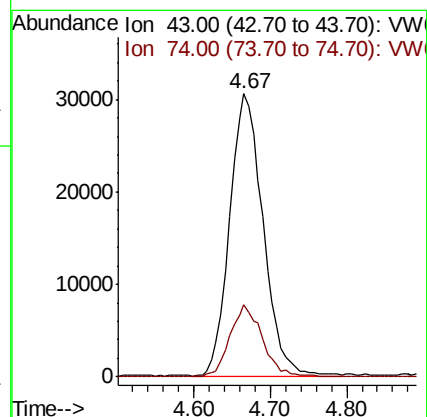
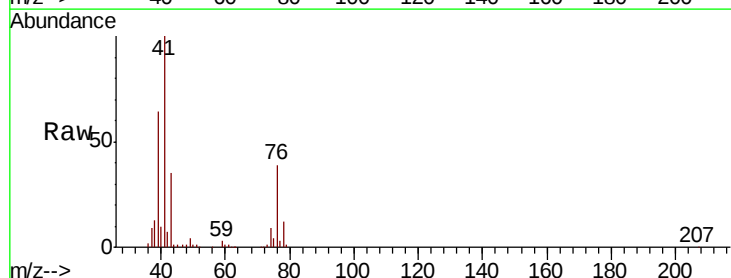
Acq: 07 Oct 2019 10:04

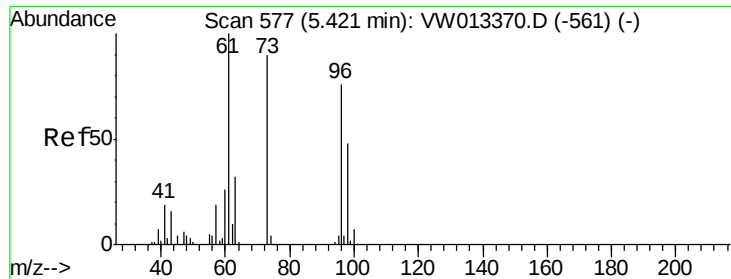
Tgt Ion: 43 Resp: 92663

Ion Ratio Lower Upper

43 100

74 24.6 19.3 28.9





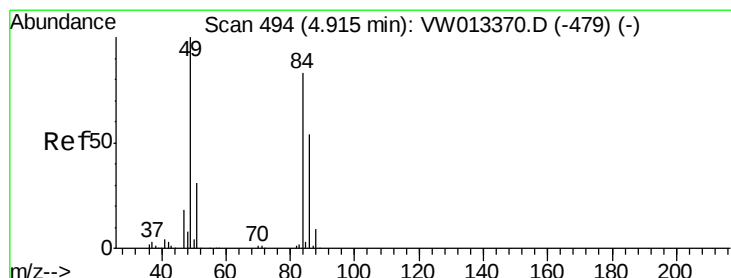
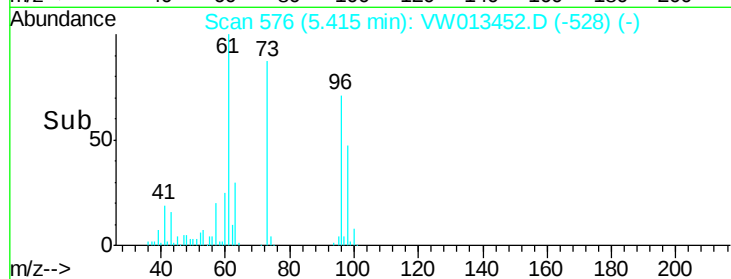
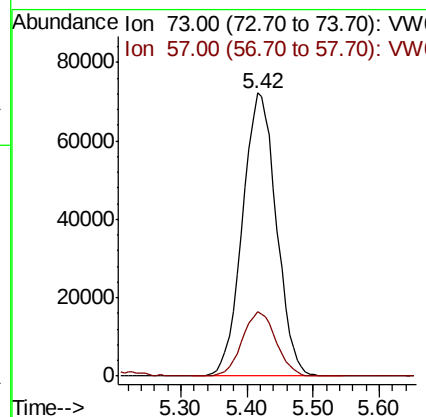
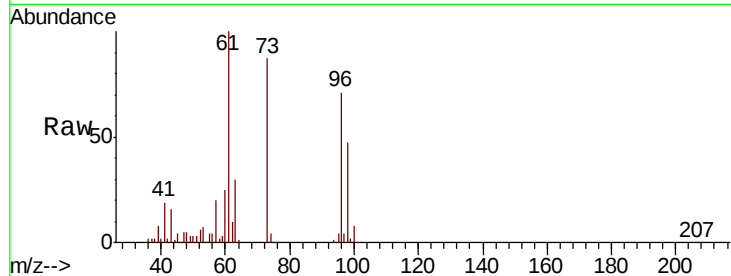
#19
Methyl tert-butyl Ether
Concen: 54.644 ug/l
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.6	26.4

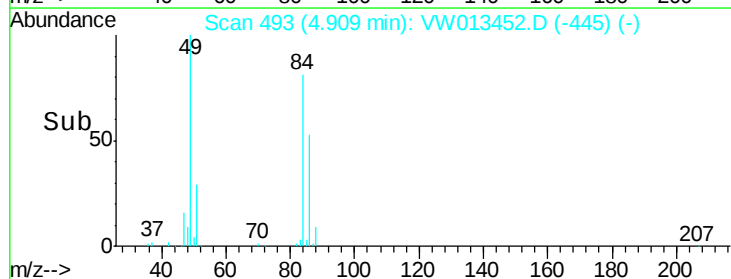
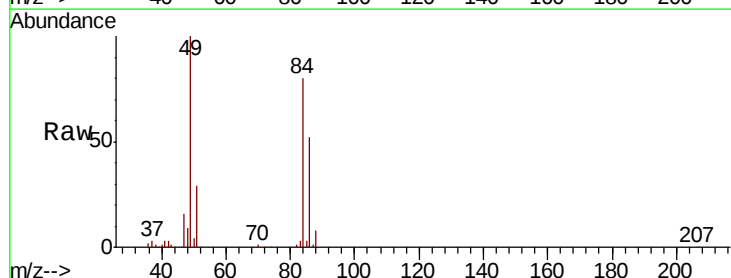
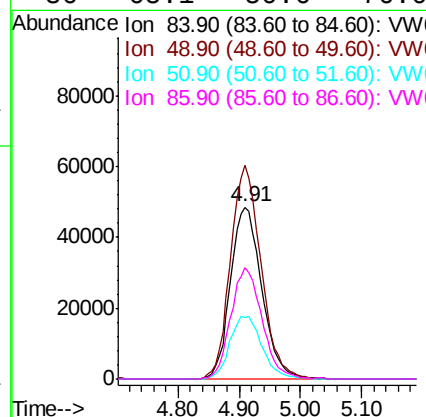
Manual Integrations
APPROVED

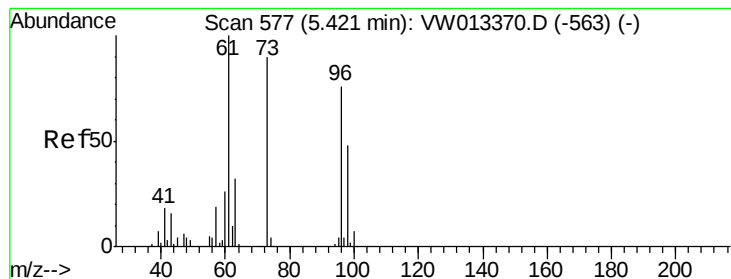
MMDadoda
10/8/2019 1:30:55 PM



#20
Methylene Chloride
Concen: 51.878 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
84	100		
49	124.4	97.6	146.4
51	35.6	30.2	45.2
86	65.1	50.6	76.0





#21

trans-1,2-Dichloroethene

Concen: 54.250 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

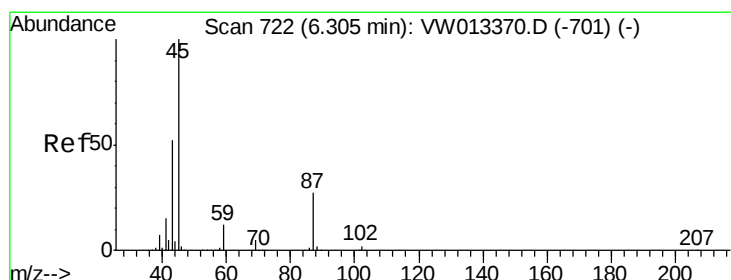
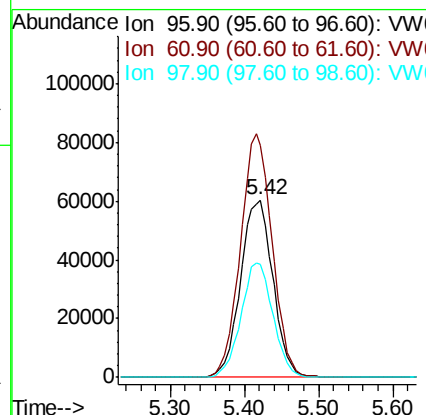
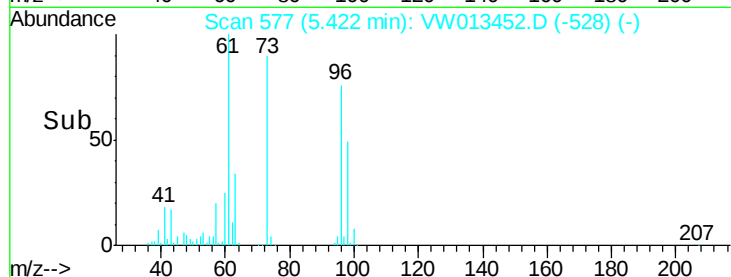
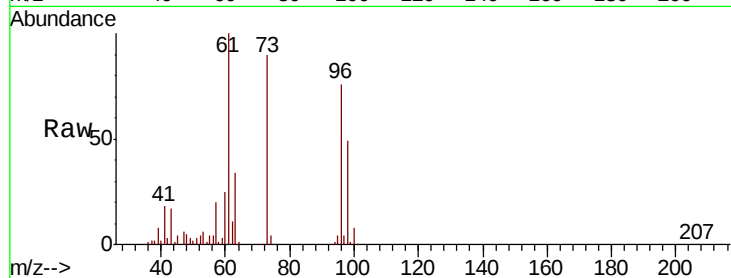
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	184301
Ion	Ratio	Lower	Upper
96	100		
61	130.7	106.6	159.8
98	63.9	49.8	74.8

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#22

Diisopropyl ether

Concen: 55.303 ug/l

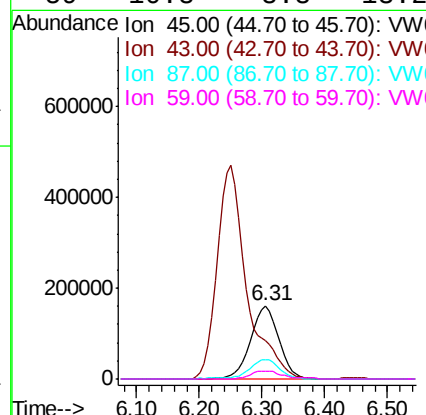
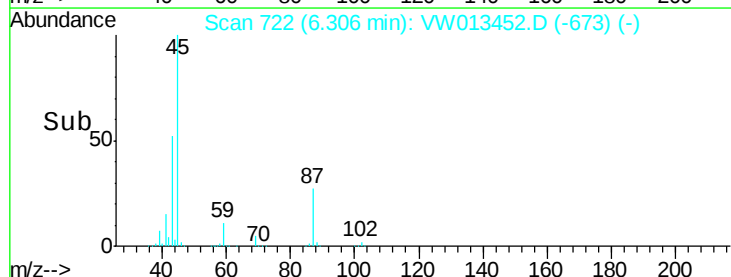
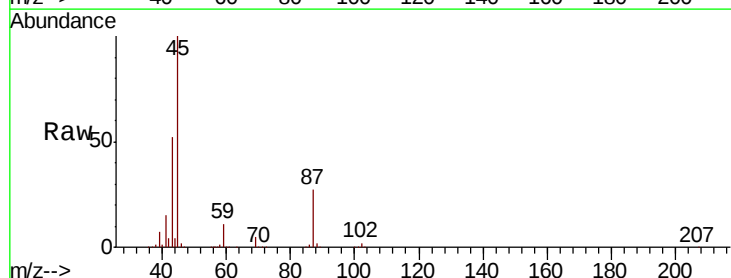
RT: 6.31 min Scan# 722

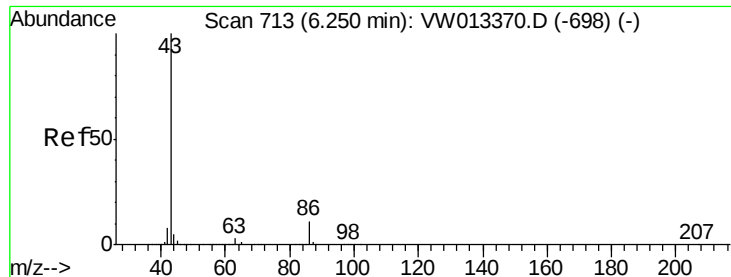
Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	45	Resp:	504006
Ion	Ratio	Lower	Upper
45	100		
43	51.1	42.4	63.6
87	26.9	20.4	30.6
59	10.8	8.8	13.2





#23

Vinyl Acetate

Concen: 281.342 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tot Ion: 43 Resp: 1538528

Ion Ratio Lower Upper

43 100

86 11.2 8.3 12.5

Instrument :

MSVOA_W

ClientSampleId :

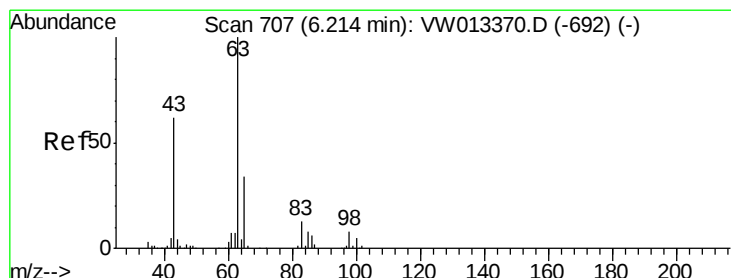
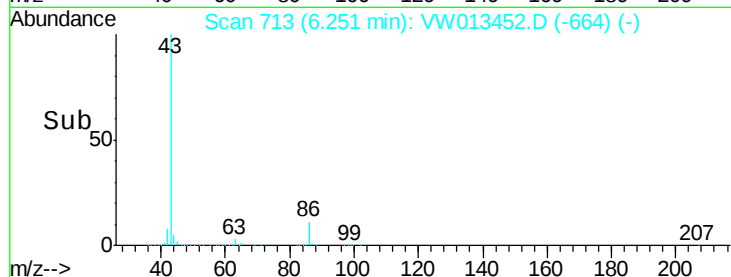
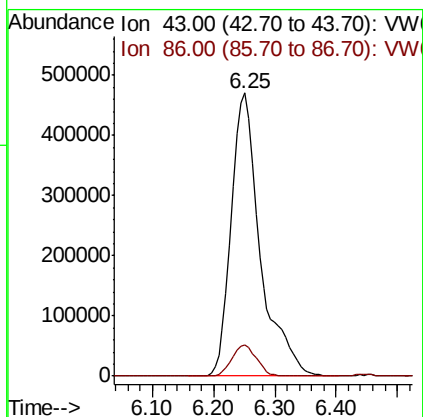
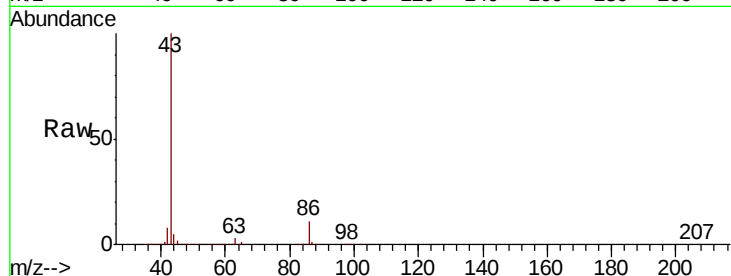
VSTDCCC050

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#24

1,1-Dichloroethane

Concen: 54.849 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

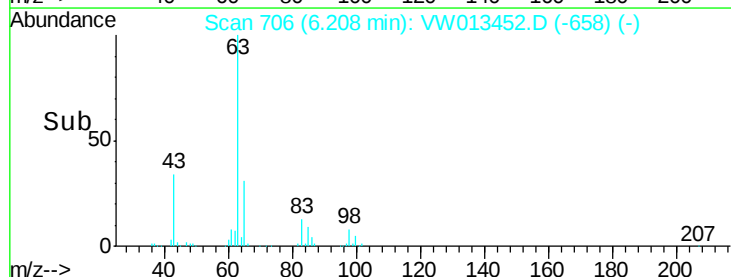
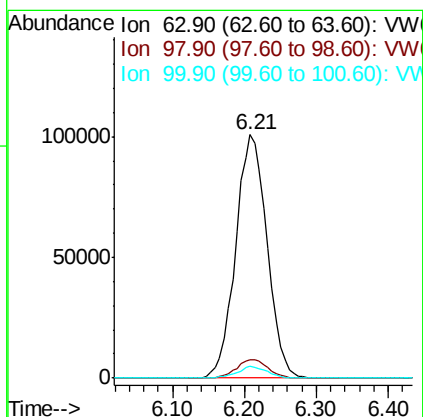
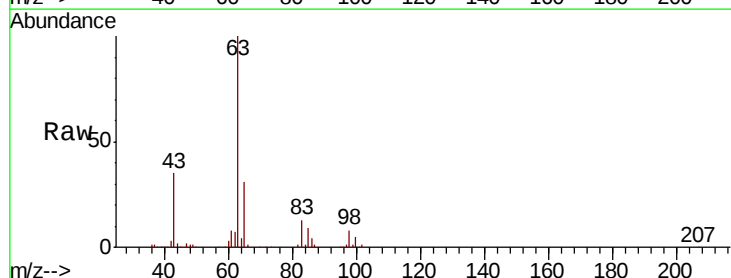
Tgt Ion: 63 Resp: 304467

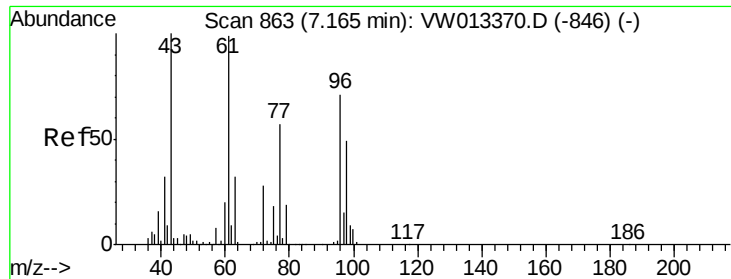
Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.5

100 4.7 2.4 7.1





#25

2-Butanone

Concen: 256.969 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 260789

Ion Ratio Lower Upper

43 100

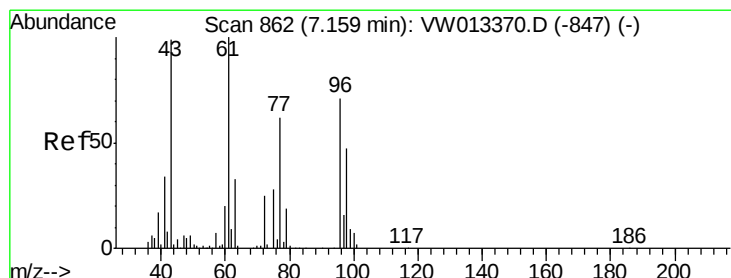
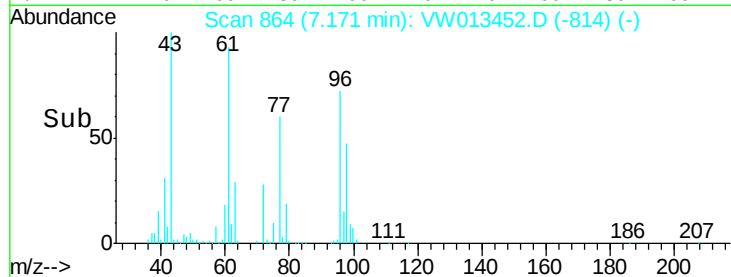
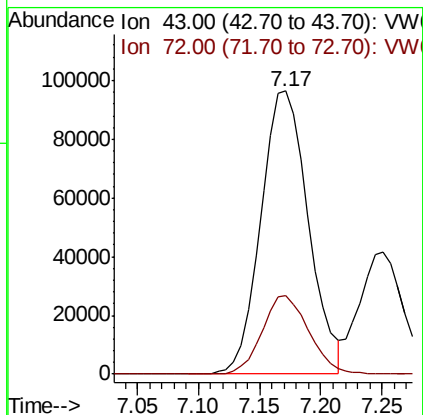
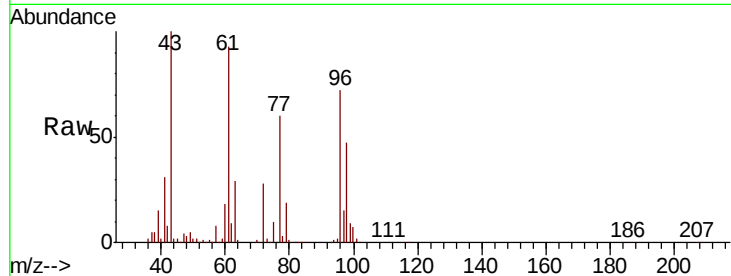
72 27.7 19.4 29.0

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#26

2,2-Dichloropropane

Concen: 58.826 ug/l

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW013452.D

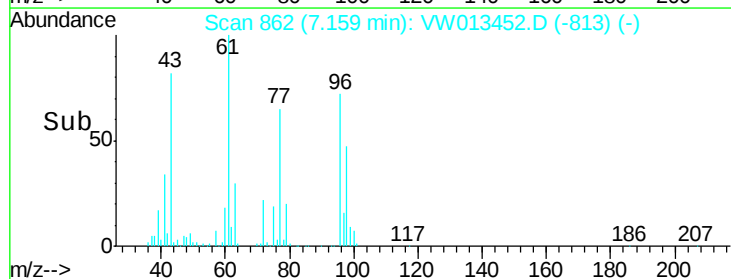
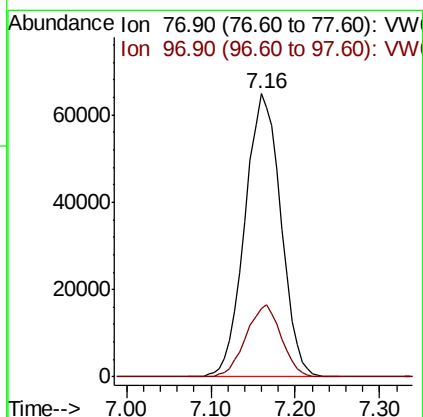
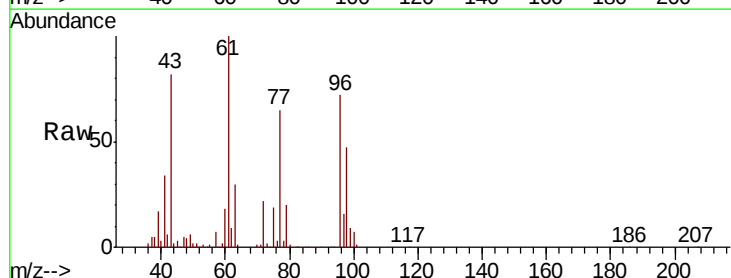
Acq: 07 Oct 2019 10:04

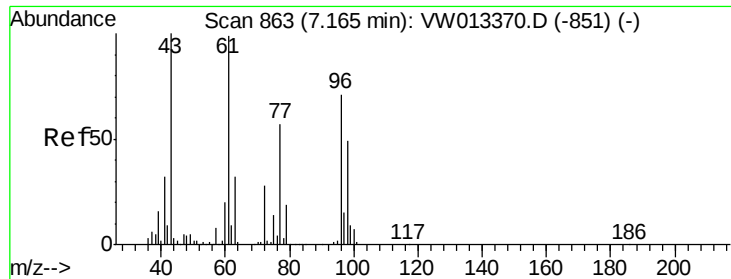
Tgt Ion: 77 Resp: 187989

Ion Ratio Lower Upper

77 100

97 24.9 11.8 35.4





#27

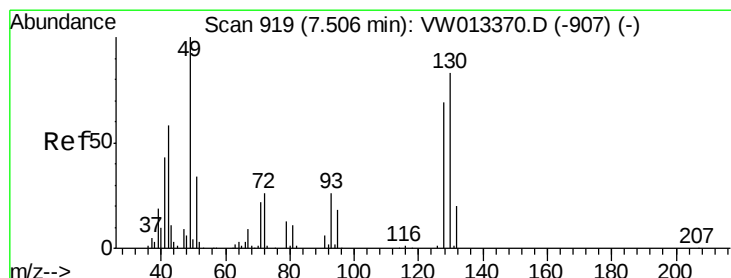
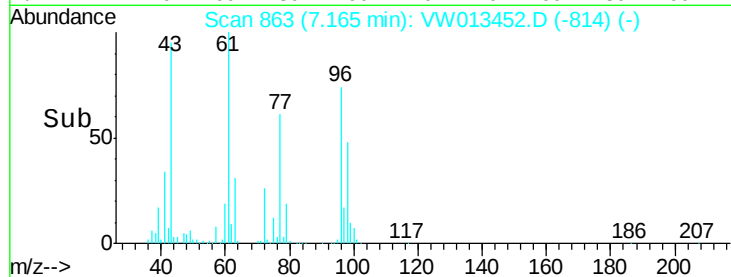
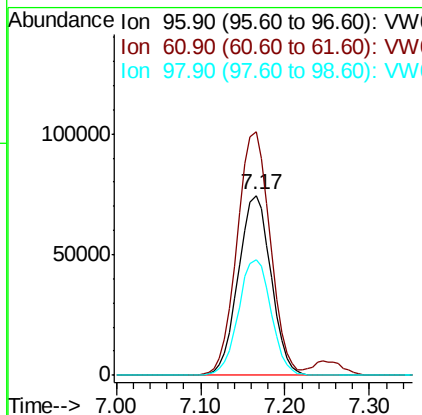
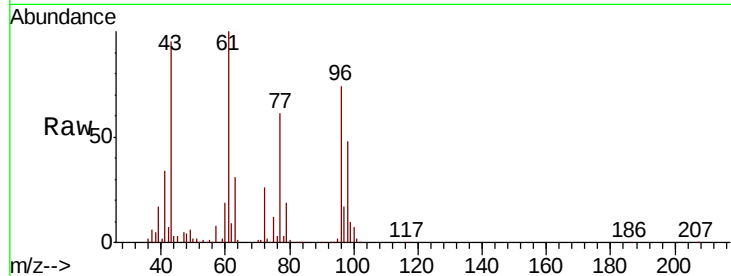
cis-1,2-Dichloroethene
Concen: 54.958 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	195431		
61	137.5	0.0	282.4	
98	64.2	0.0	128.2	

Manual Integrations
APPROVED

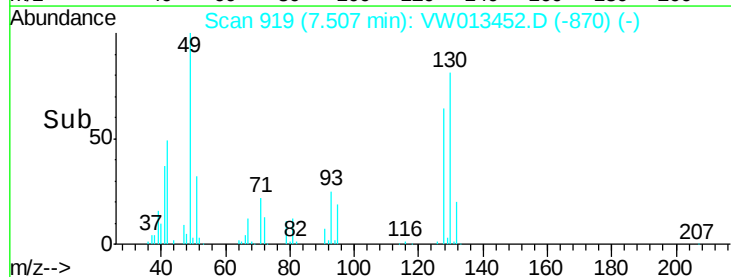
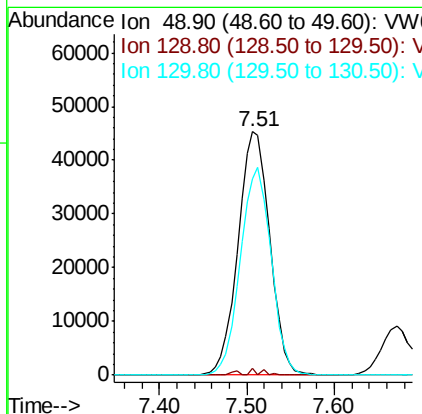
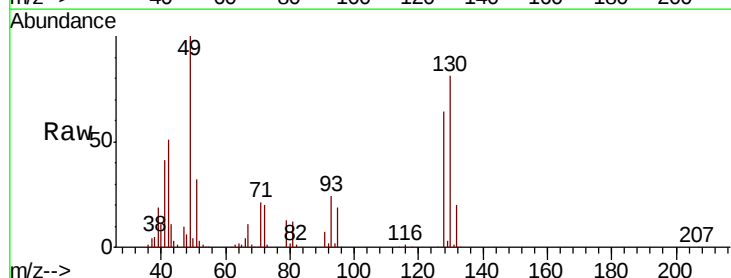
MMDadoda
10/8/2019 1:30:55 PM

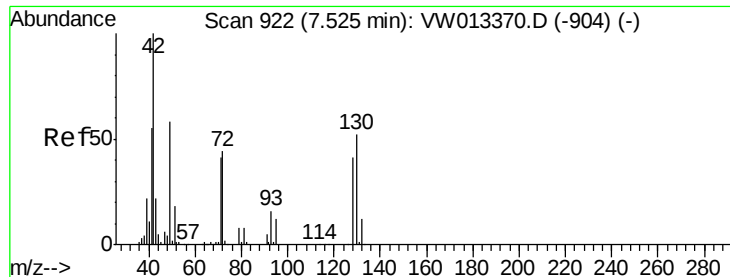


#28

Bromochloromethane
Concen: 56.956 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	114310		
129	0.9	0.0	1.0	
130	83.1	63.4	95.2	





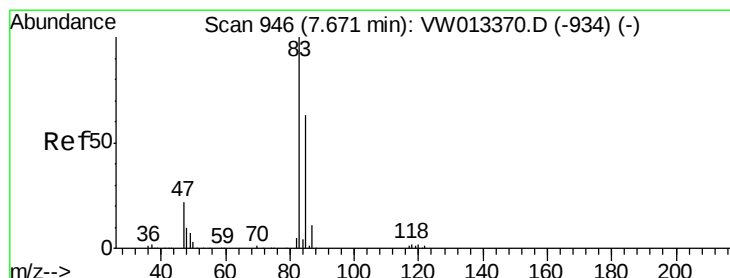
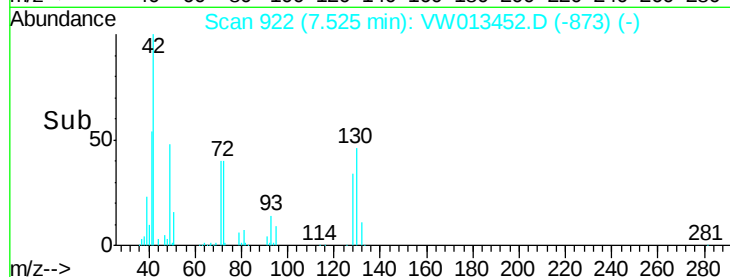
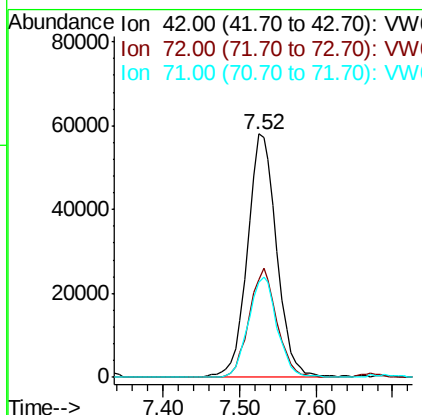
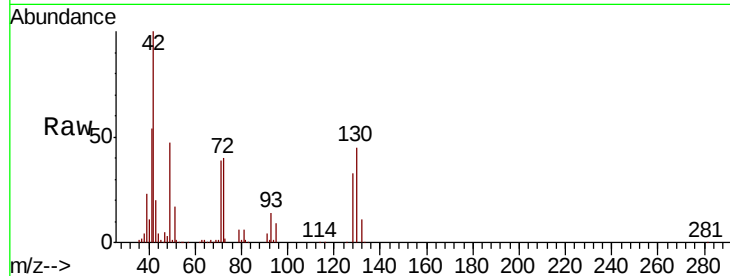
#29
Tetrahydrofuran
Concen: 260.961 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.7	33.9	50.9
71	40.4	31.9	47.9

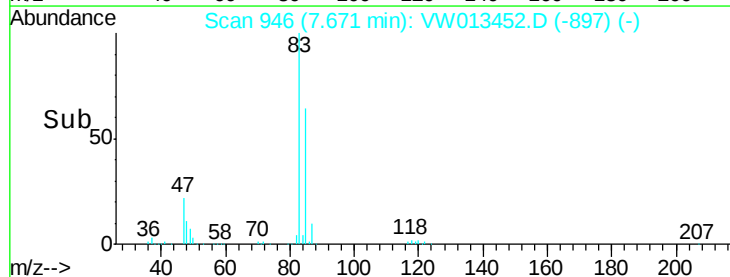
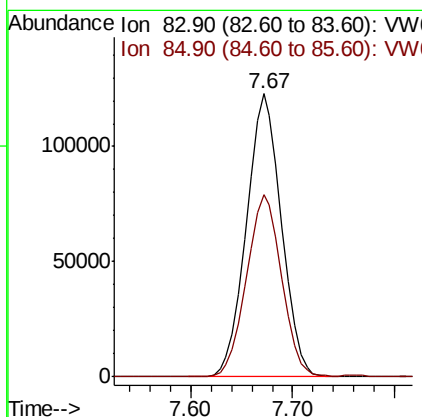
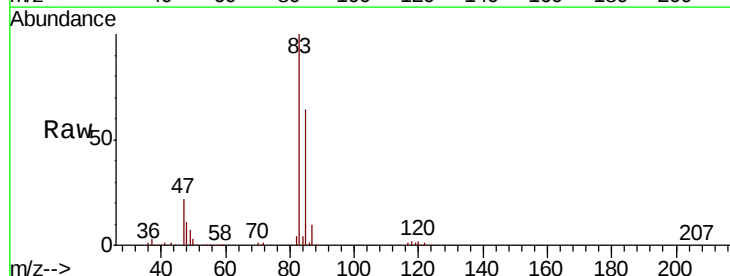
Manual Integrations
APPROVED

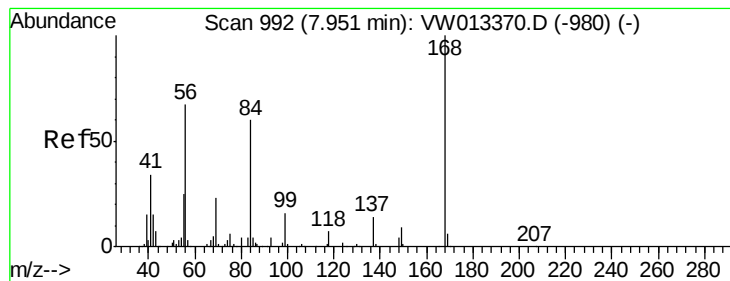
MMDadoda
10/8/2019 1:30:55 PM



#30
Chloroform
Concen: 53.726 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.3	78.5





#31

Cyclohexane

Concen: 51.862 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

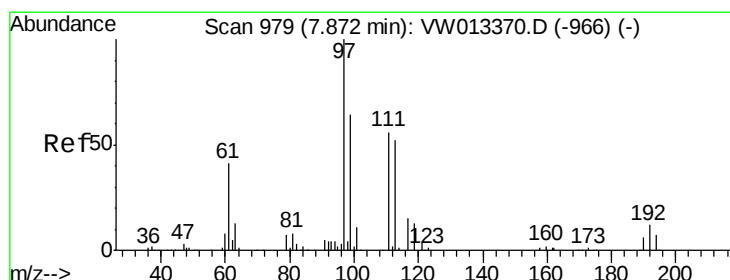
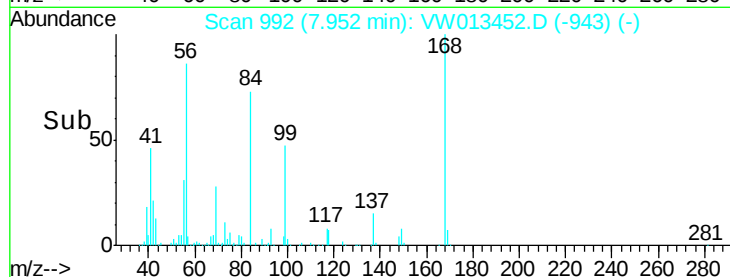
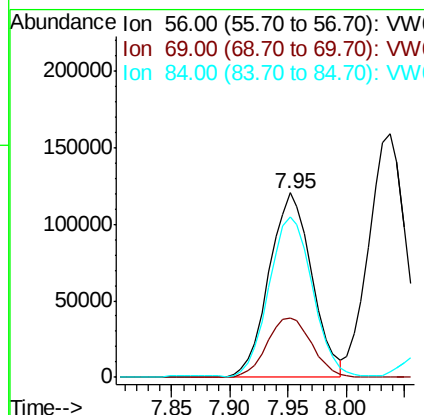
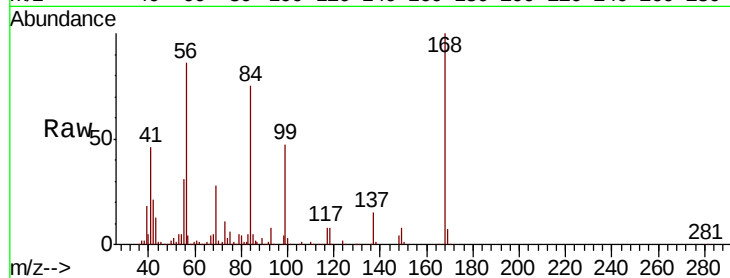
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	307009
Ion	Ratio	Lower	Upper
56	100		
69	32.2	27.2	40.8
84	86.1	70.8	106.2

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#32

1,1,1-Trichloroethane

Concen: 56.314 ug/l

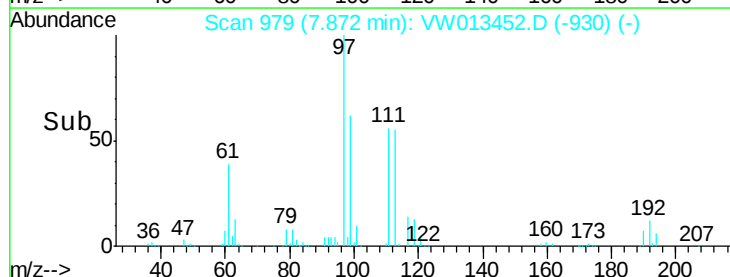
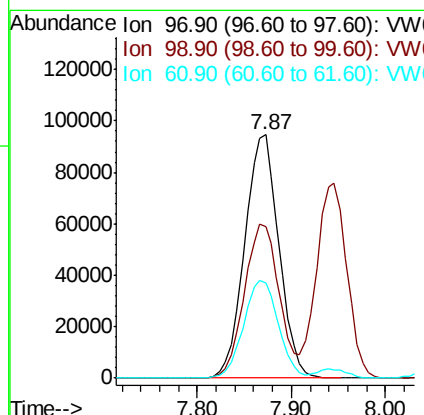
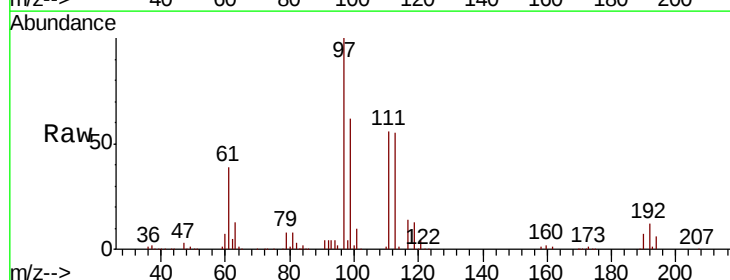
RT: 7.87 min Scan# 979

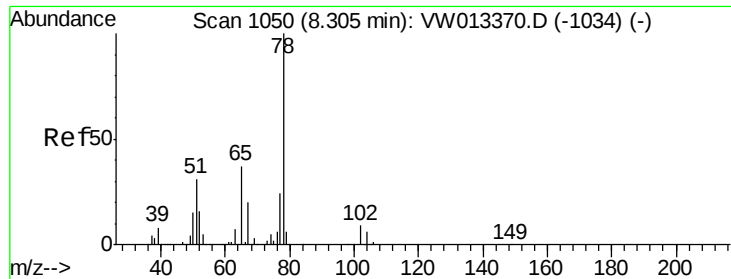
Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	97	Resp:	240134
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.7	77.5
61	41.0	34.6	51.8





#33

1,2-Dichloroethane-d4

Concen: 53.267 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 137830

Ion Ratio Lower Upper

65 100

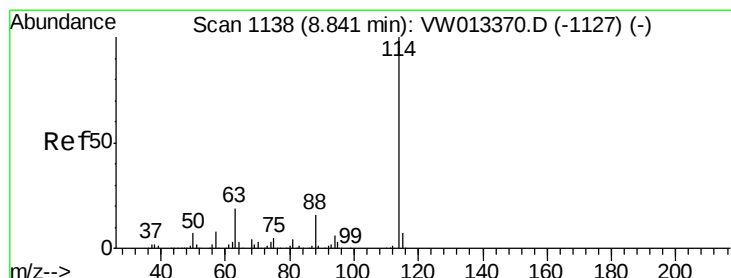
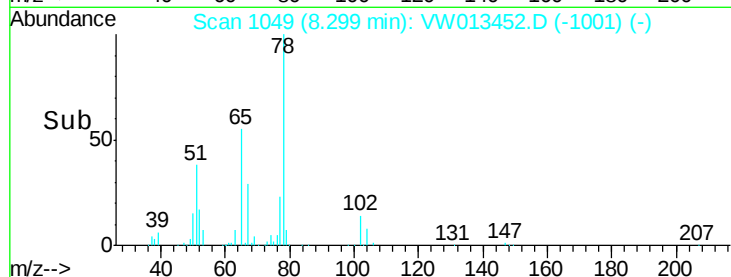
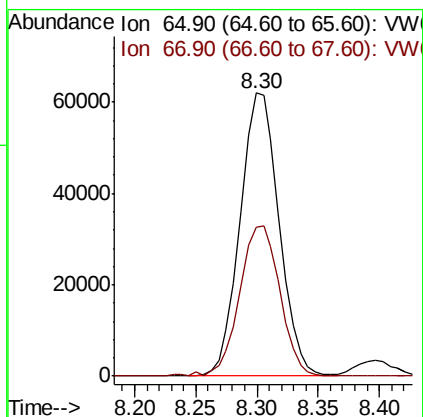
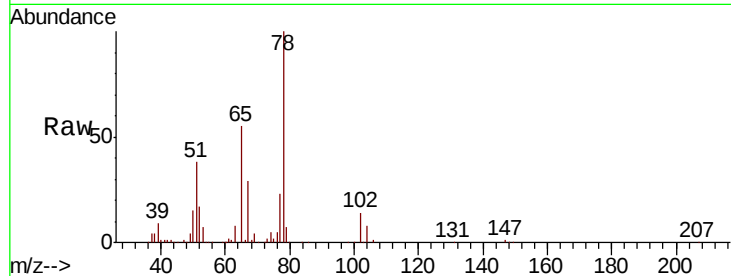
67 54.8 0.0 106.2

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

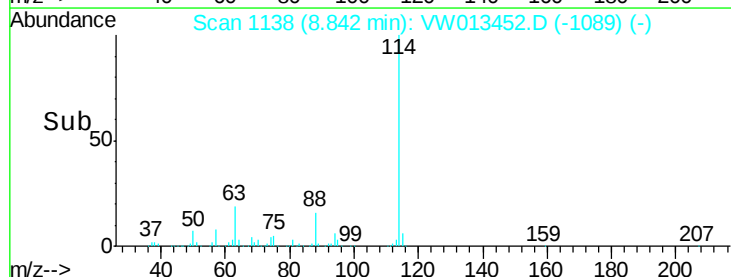
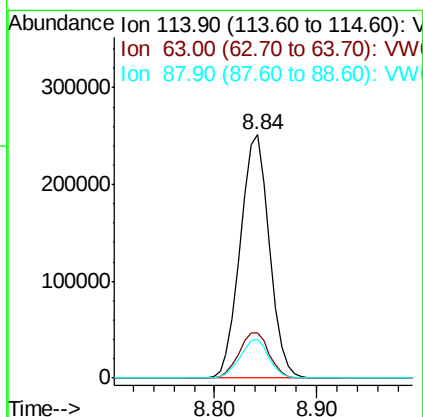
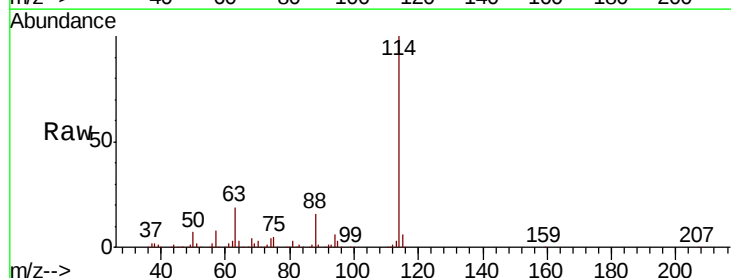
Tgt Ion: 114 Resp: 498169

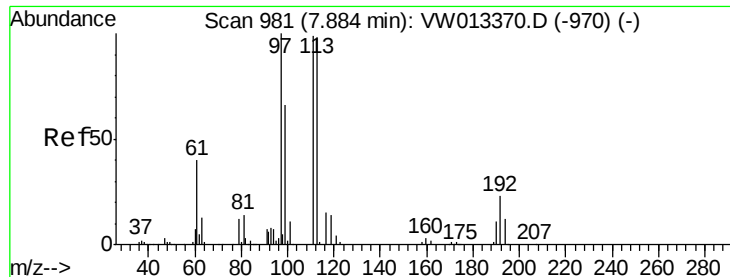
Ion Ratio Lower Upper

114 100

63 18.8 0.0 41.4

88 15.8 0.0 32.0





#35

Dibromofluoromethane

Concen: 55.133 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

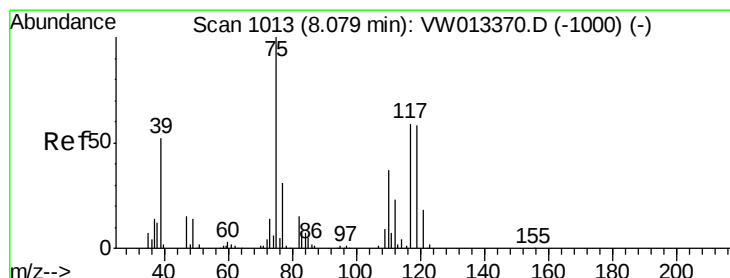
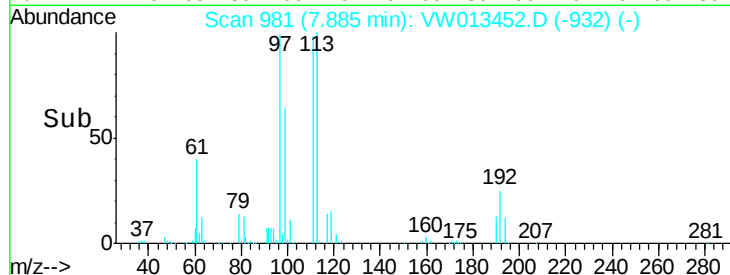
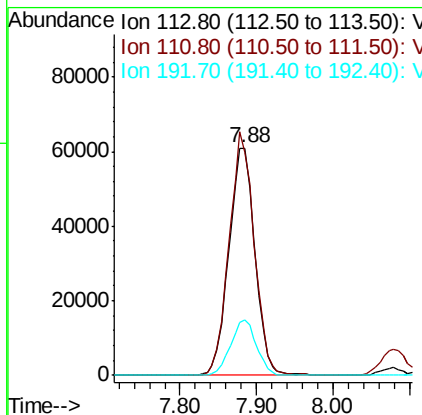
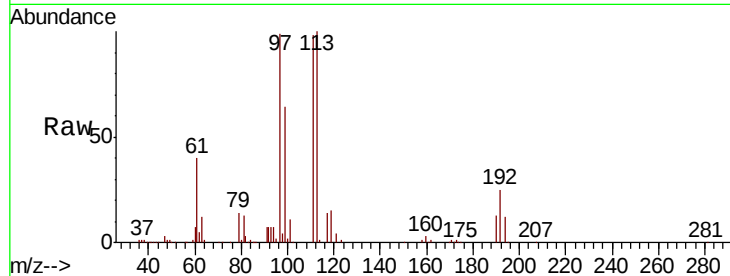
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	144117
Ion Ratio	Lower	Upper	
113	100		
111	102.7	81.9	122.9
192	24.0	19.1	28.7

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#36

1,1-Dichloropropene

Concen: 54.560 ug/l

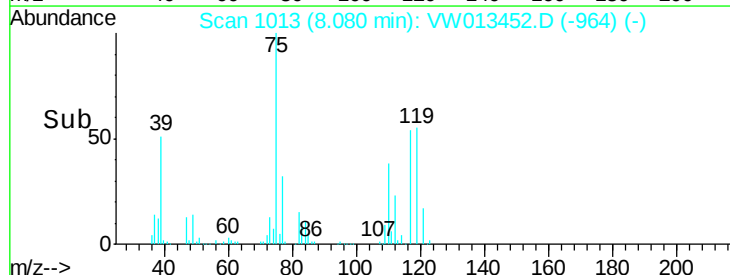
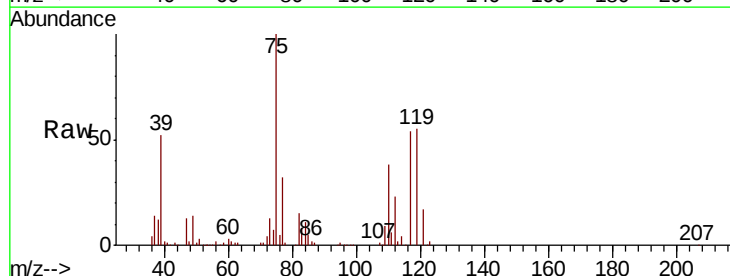
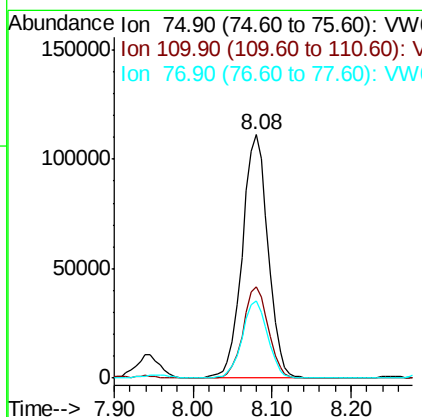
RT: 8.08 min Scan# 1013

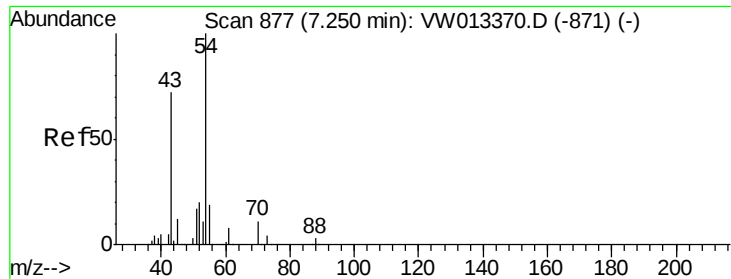
Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	75	Resp:	252451
Ion Ratio	Lower	Upper	
75	100		
110	36.5	18.1	54.3
77	31.5	25.8	38.6





#37

Ethyl Acetate

Concen: 52.819 ug/l

RT: 7.25 min Scan# 877

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

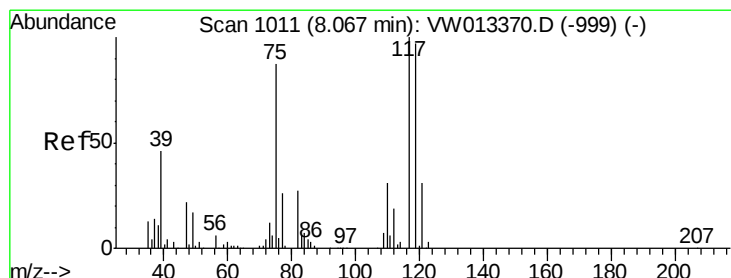
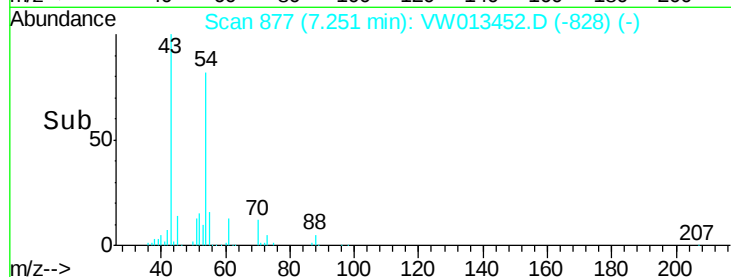
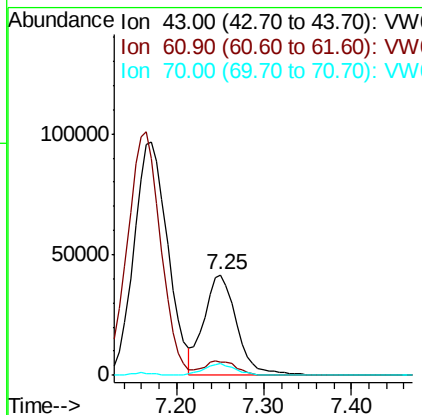
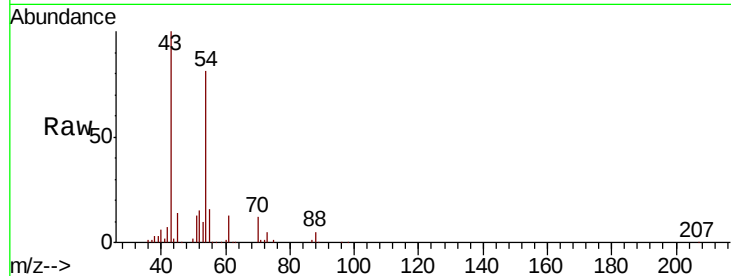
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	107880
Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.9	16.3
70	11.2	8.2	12.2

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#38

Carbon Tetrachloride

Concen: 56.115 ug/l

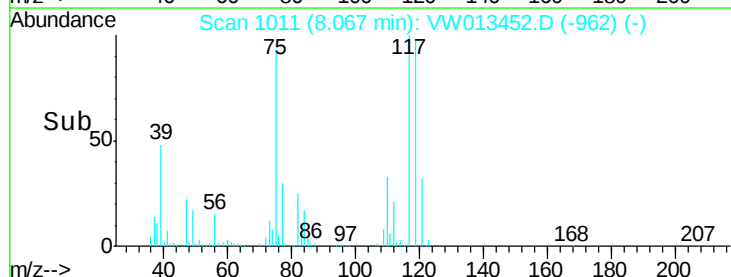
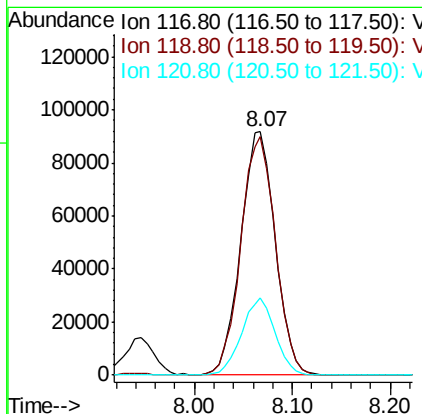
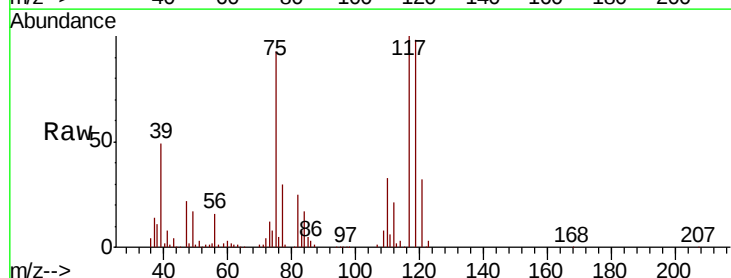
RT: 8.07 min Scan# 1011

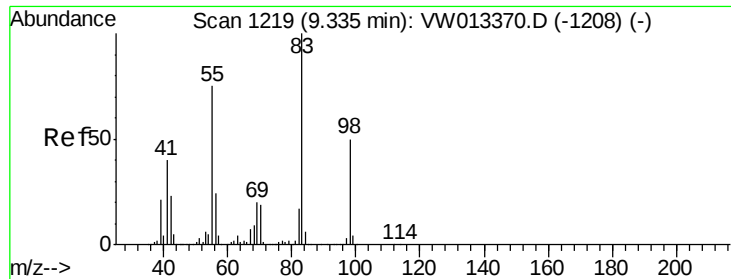
Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	117	Resp:	224918
Ion	Ratio	Lower	Upper
117	100		
119	98.1	73.5	110.3
121	31.7	25.0	37.6





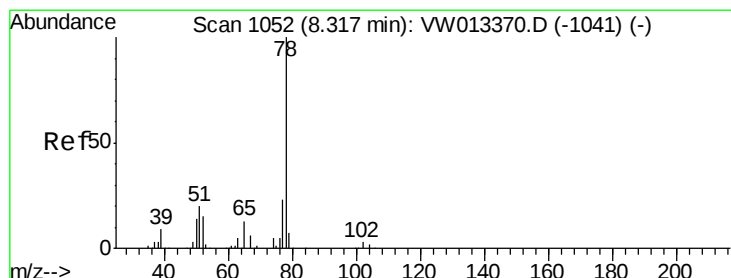
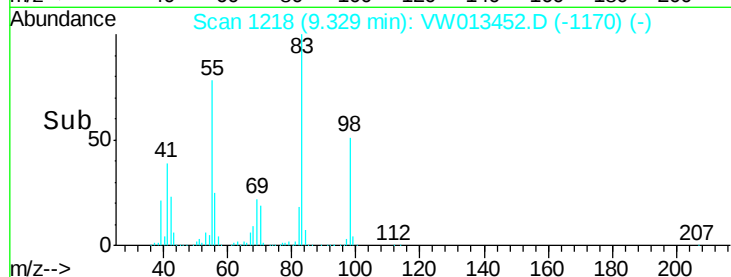
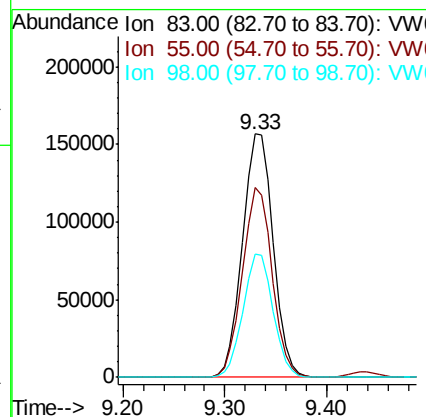
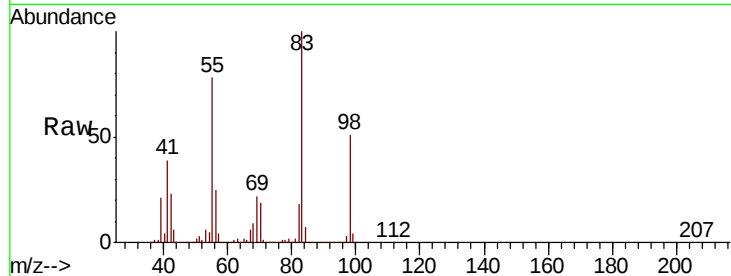
#39
Methvlcvclohexane
Concen: 53.954 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.8	60.4	90.6
98	50.5	40.0	60.0

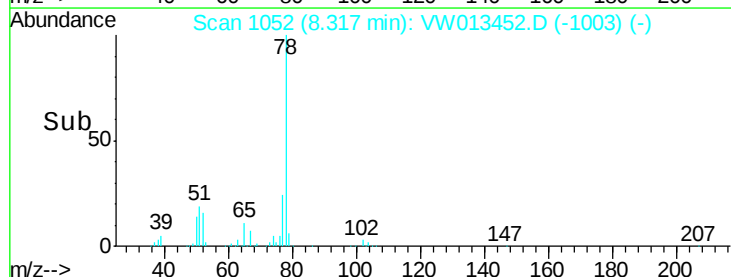
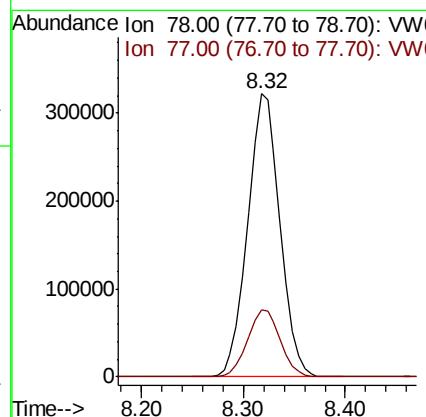
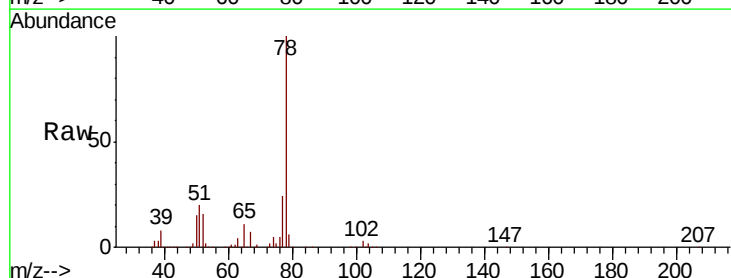
Manual Integrations
APPROVED

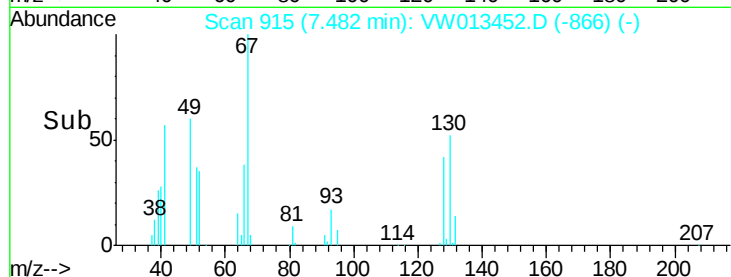
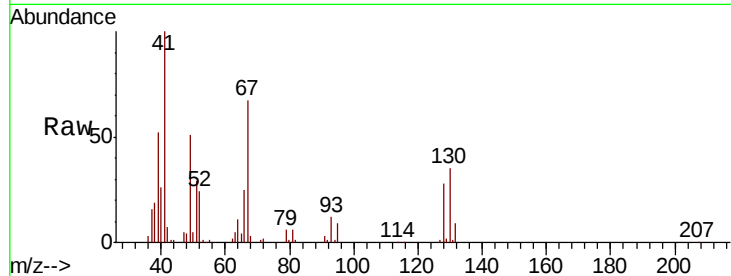
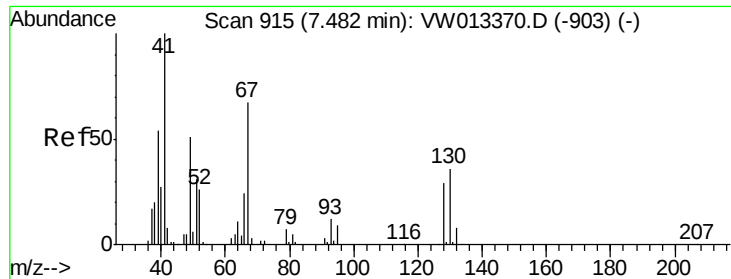
MMDadoda
10/8/2019 1:30:55 PM



#40
Benzene
Concen: 54.043 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7





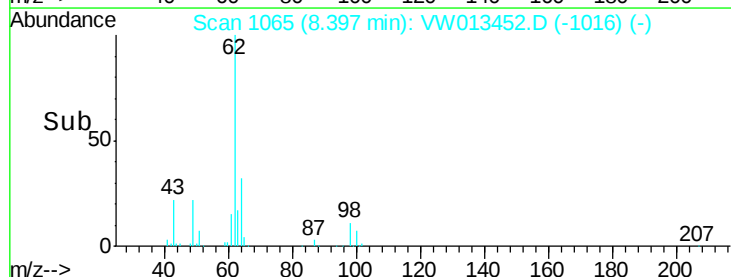
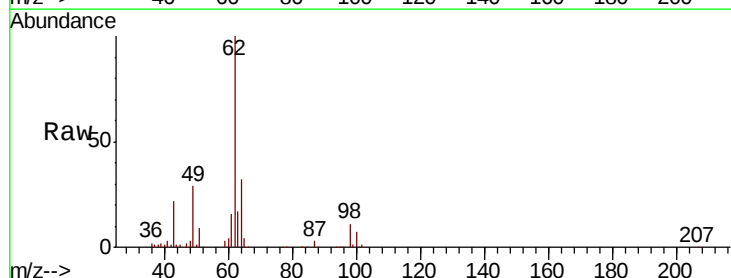
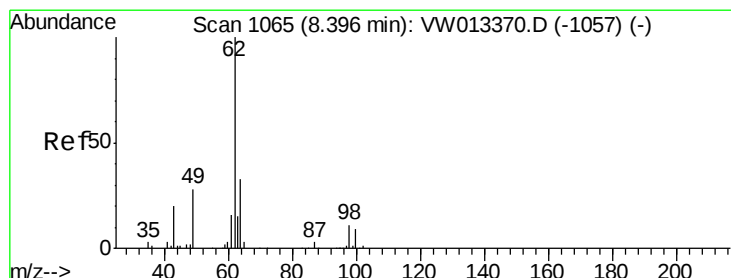
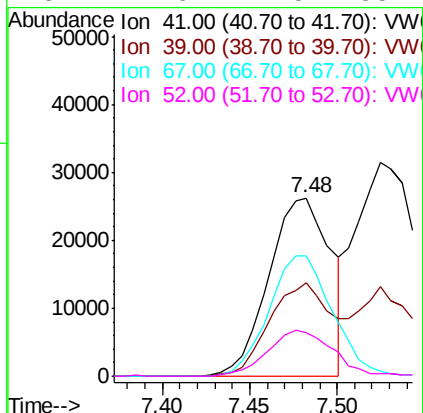
#41
Methacrylonitrile
Concen: 52.464 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.9	45.9	68.9
67	70.4	54.5	81.7
52	27.6	22.5	33.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

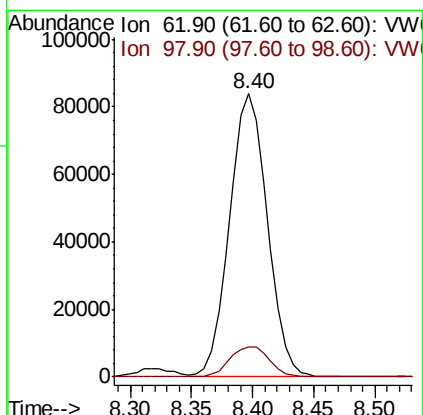
Manual Integrations
APPROVED

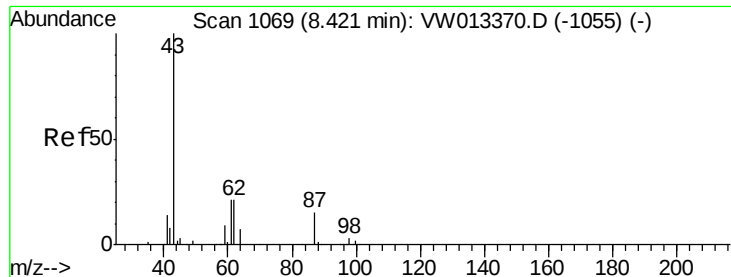
MMDadoda
10/8/2019 1:30:55 PM



#42
1,2-Dichloroethane
Concen: 53.287 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	20.6





#43

Isopropyl Acetate

Concen: 52.343 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

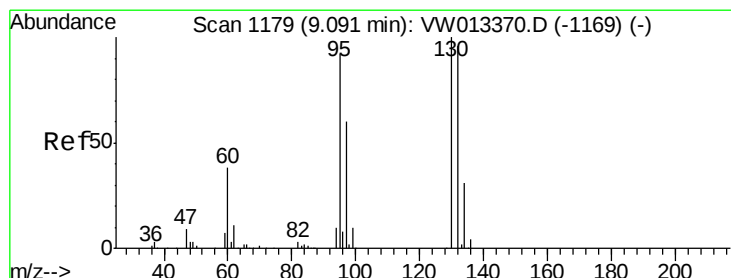
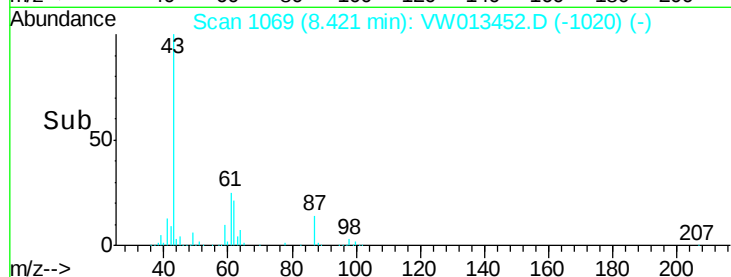
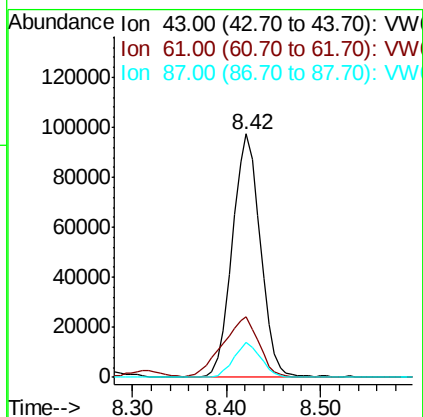
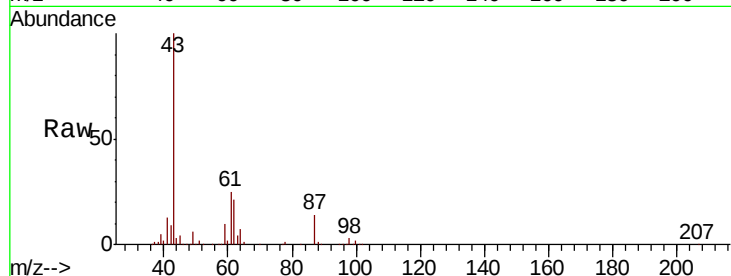
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	201177
Ion	Ratio	Lower	Upper
43	100		
61	31.8	25.5	38.3
87	13.9	11.0	16.4

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#44

Trichloroethene

Concen: 54.857 ug/l

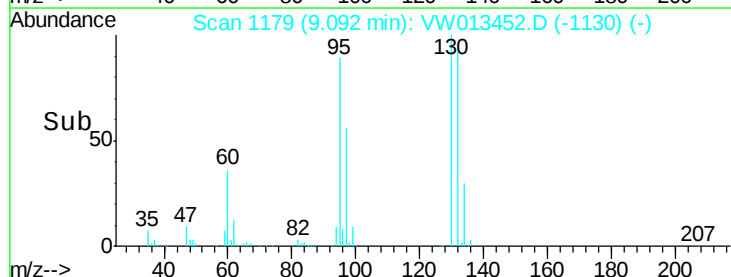
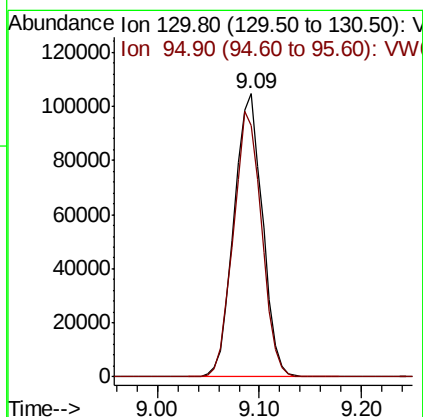
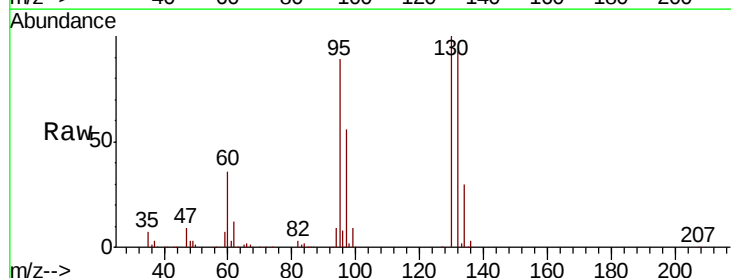
RT: 9.09 min Scan# 1179

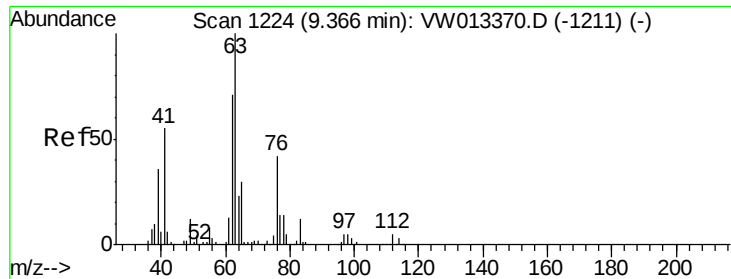
Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	130	Resp:	202337
Ion	Ratio	Lower	Upper
130	100		
95	88.7	0.0	188.0





#45

1,2-Dichloropropane

Concen: 54.831 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 172435

Ion Ratio Lower Upper

63 100

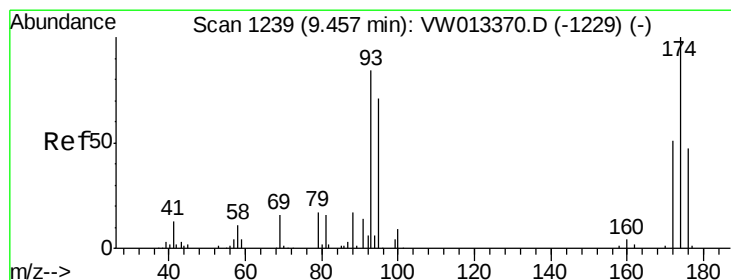
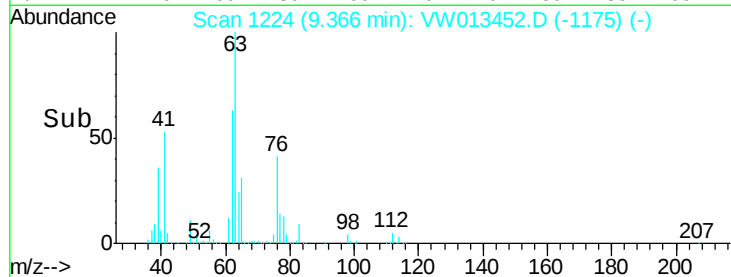
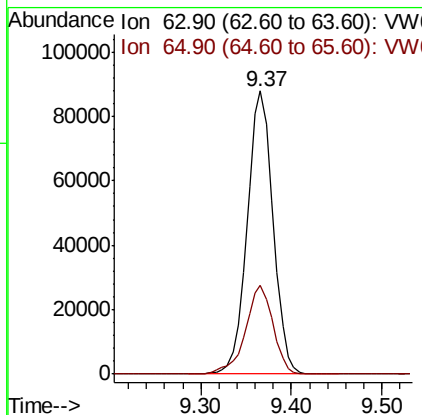
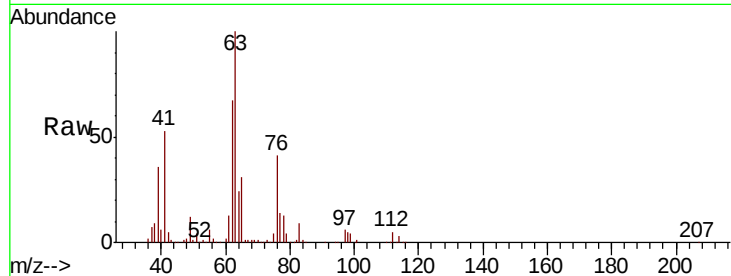
65 31.3 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#46

Dibromomethane

Concen: 52.803 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

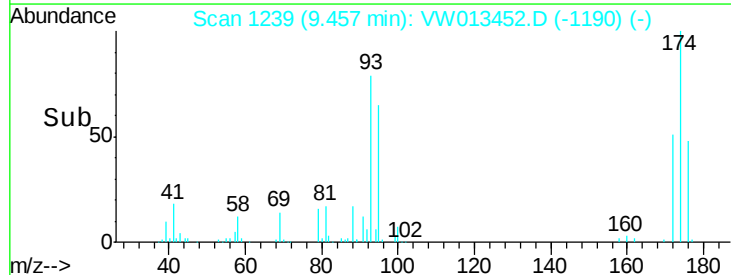
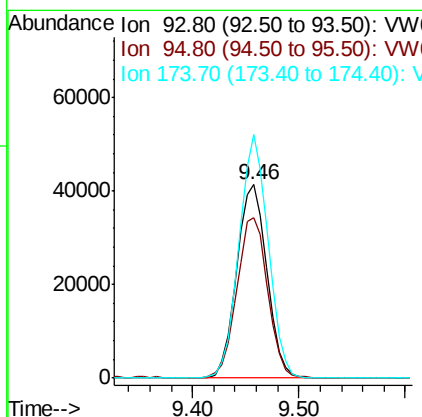
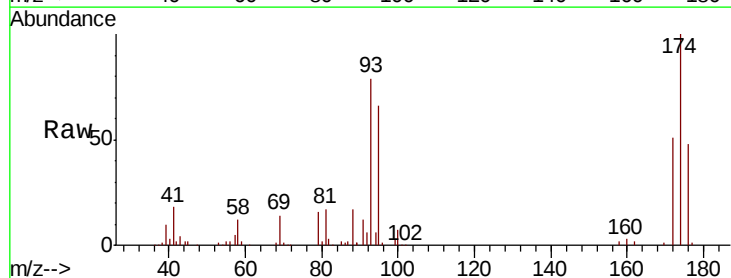
Tgt Ion: 93 Resp: 82712

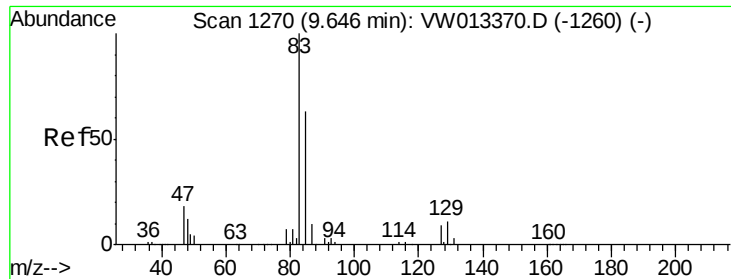
Ion Ratio Lower Upper

93 100

95 84.3 66.4 99.6

174 121.4 93.0 139.6





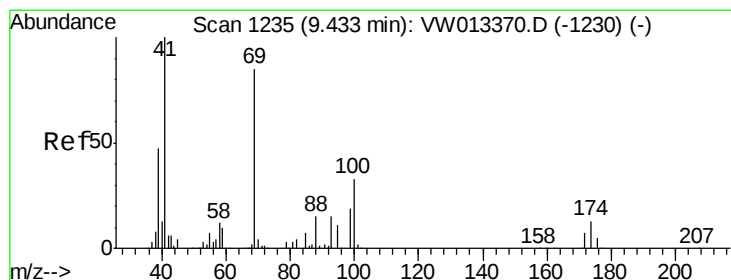
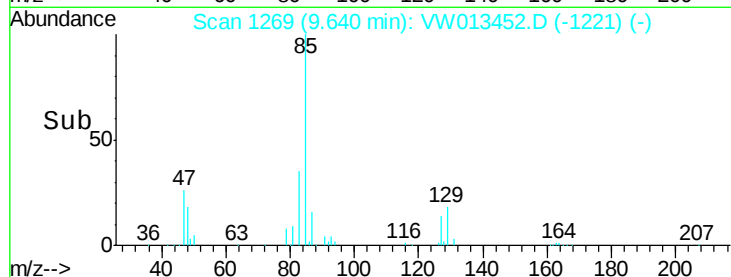
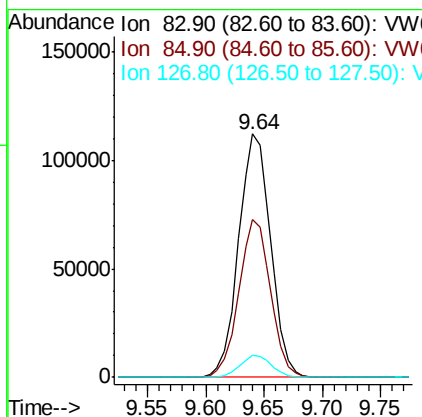
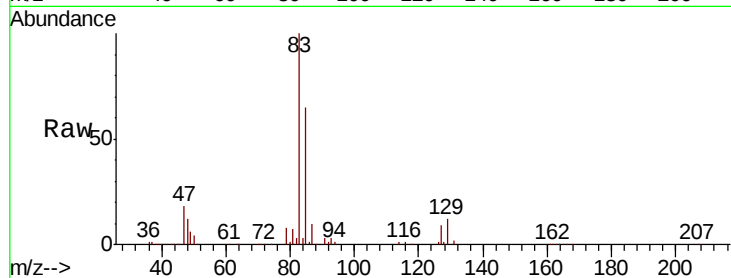
#47
Bromodichloromethane
Concen: 55.653 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	214605		
85	64.8		49.4	74.2
127	9.1		6.5	9.7

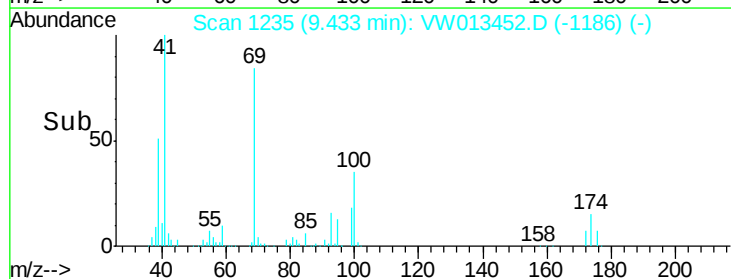
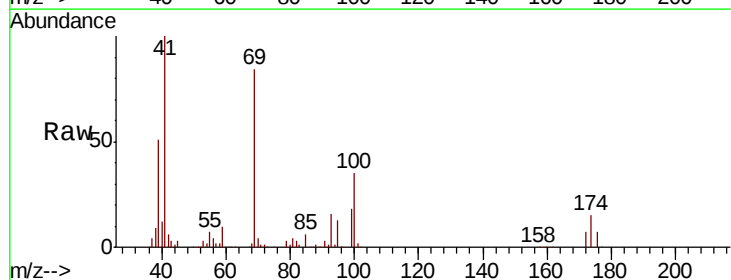
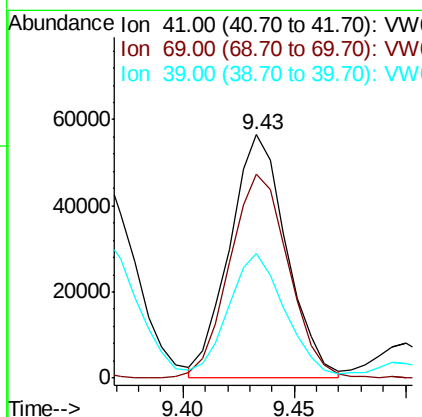
Manual Integrations
APPROVED

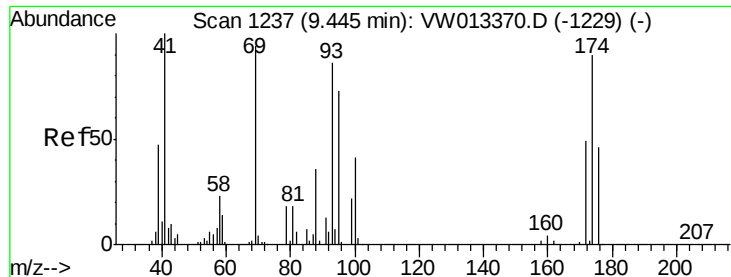
MMDadoda
10/8/2019 1:30:55 PM



#48
Methyl methacrylate
Concen: 54.384 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	100433		
69	87.2		69.7	104.5
39	47.2		41.1	61.7





#49

1,4-Dioxane

Concen: 1161.294 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.02 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

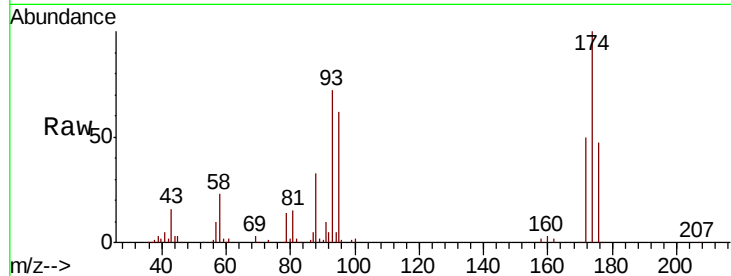
ClientSampleId :

VSTDCCC050

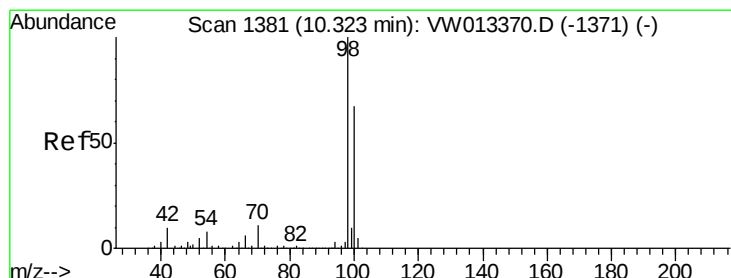
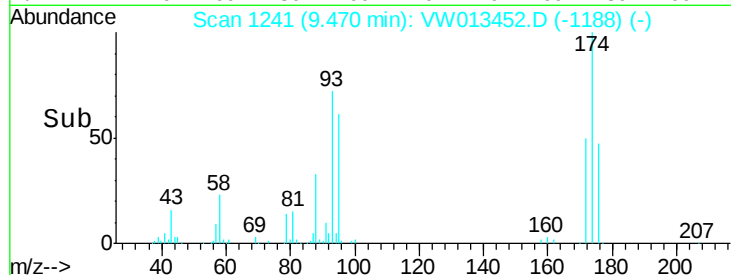
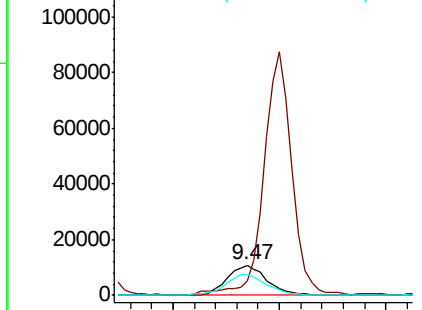
Tot Ion:	88	Resp:	27971
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	73.0	65.4	98.0

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 55.224 ug/l

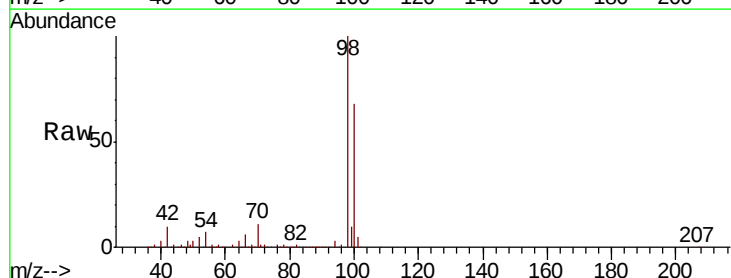
RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

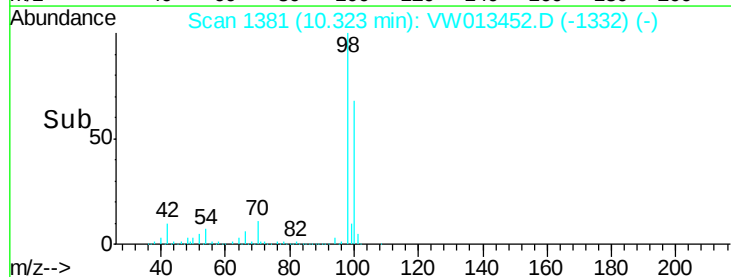
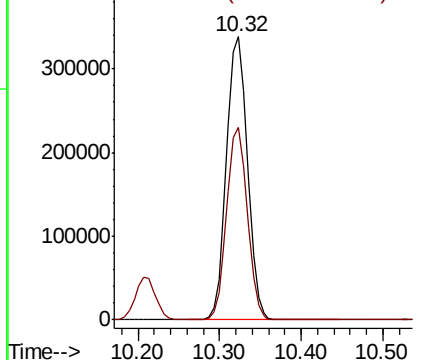
Lab File: VW013452.D

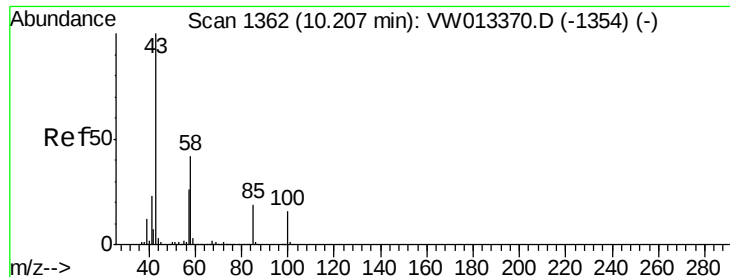
Acq: 07 Oct 2019 10:04

Tgt Ion:	98	Resp:	599050
Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.9	79.3



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 254.244 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 513402

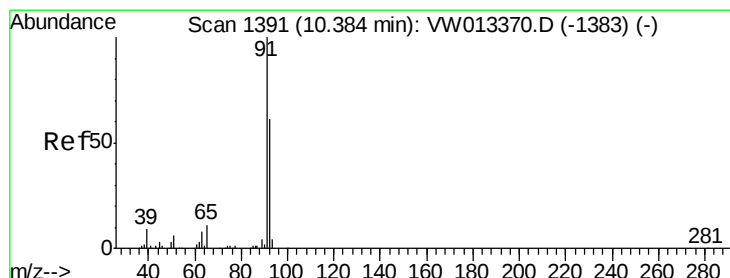
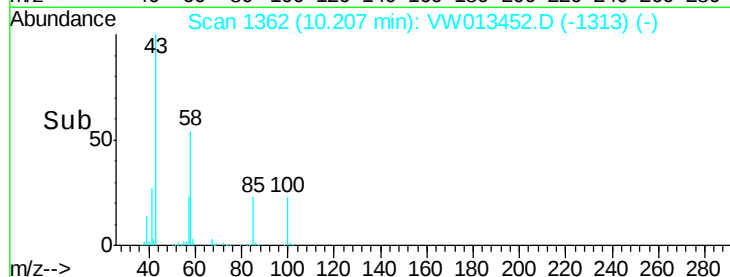
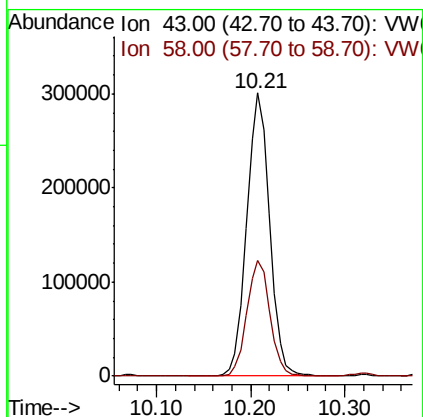
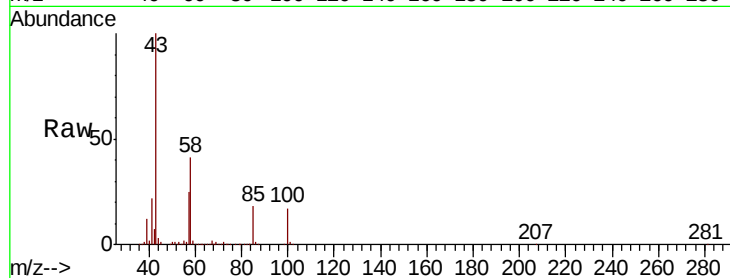
Ion Ratio Lower Upper

43 100

58 41.1 31.7 47.5

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#52

Toluene

Concen: 53.910 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013452.D

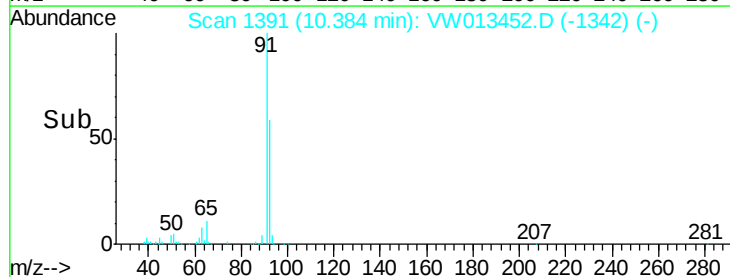
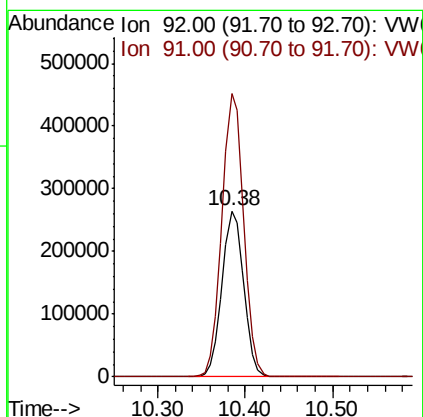
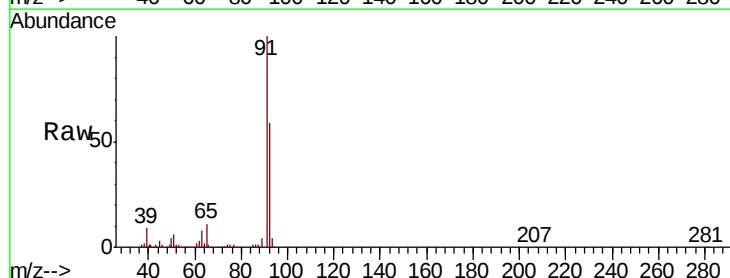
Acq: 07 Oct 2019 10:04

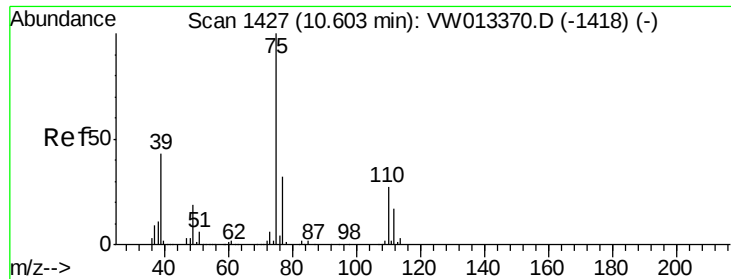
Tgt Ion: 92 Resp: 455447

Ion Ratio Lower Upper

92 100

91 170.6 135.7 203.5





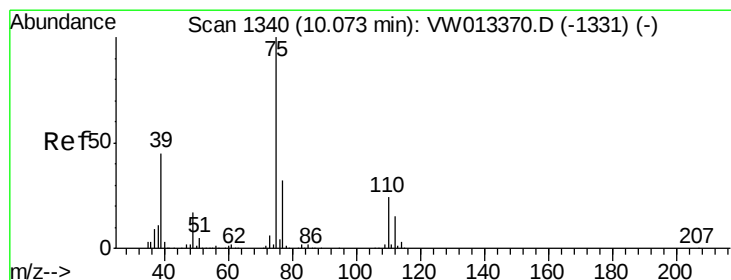
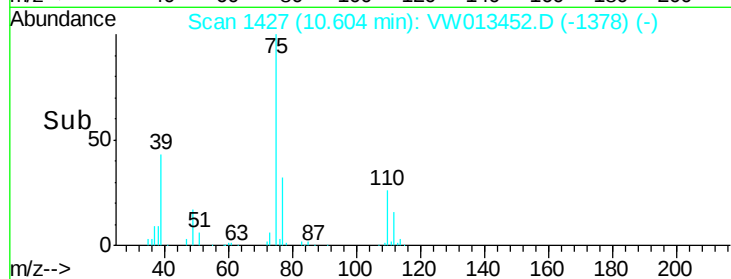
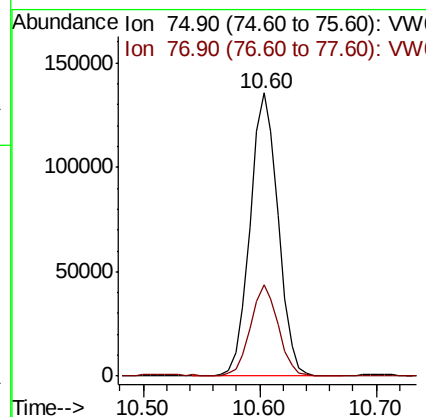
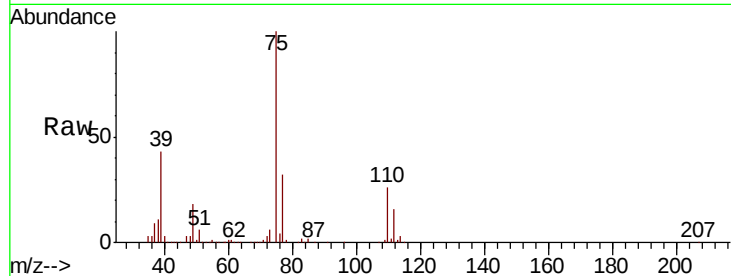
#53
t-1,3-Dichloropropene
Concen: 56.980 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 228544
Ion Ratio Lower Upper
75 100
77 32.1 25.5 38.3

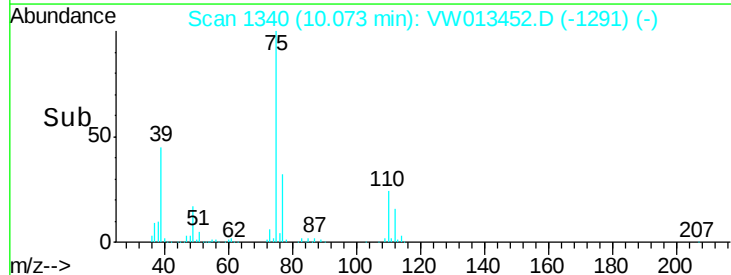
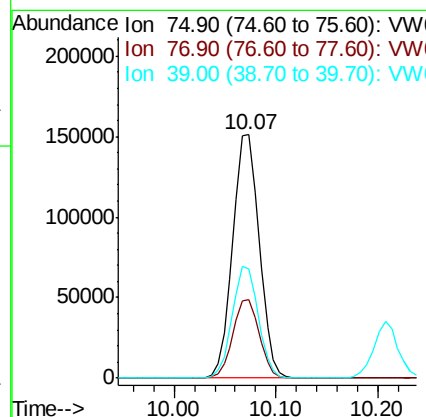
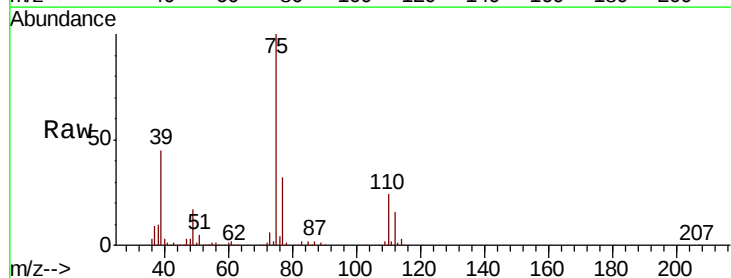
Manual Integrations
APPROVED

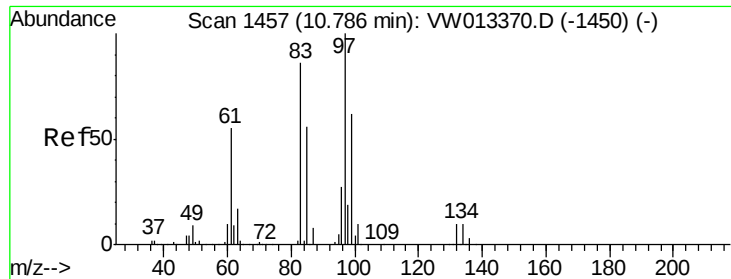
MMDadoda
10/8/2019 1:30:55 PM



#54
cis-1,3-Dichloropropene
Concen: 56.100 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion: 75 Resp: 272817
Ion Ratio Lower Upper
75 100
77 32.5 25.2 37.8
39 44.9 36.6 55.0





#55

1,1,2-Trichloroethane

Concen: 53.122 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

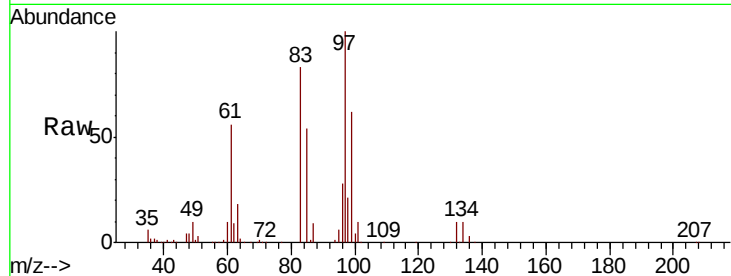
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	124132
Ion	Ratio	Lower	Upper
97	100		
83	82.6	67.6	101.4
85	54.1	41.9	62.9
99	61.7	50.1	75.1

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



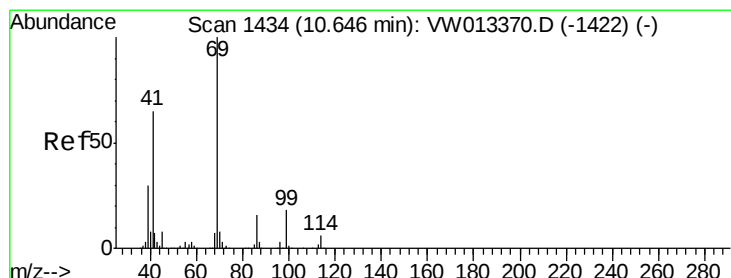
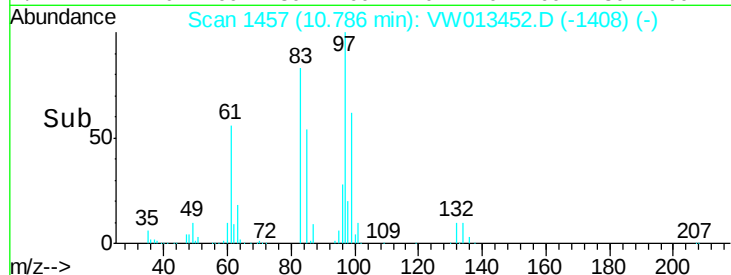
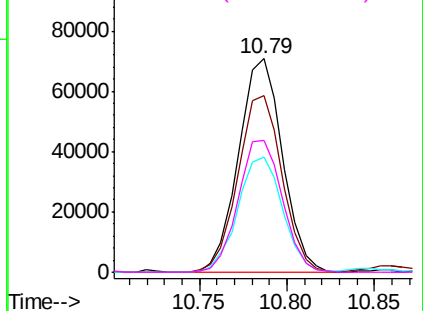
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 54.656 ug/l

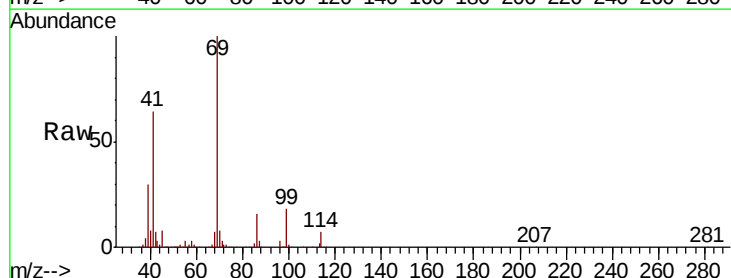
RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	69	Resp:	171906
Ion	Ratio	Lower	Upper
69	100		
41	66.1	53.9	80.9
39	27.4	23.8	35.6

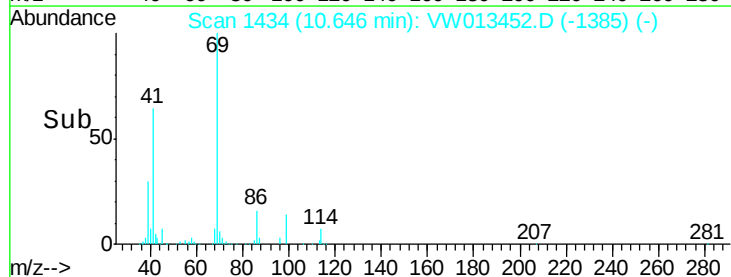
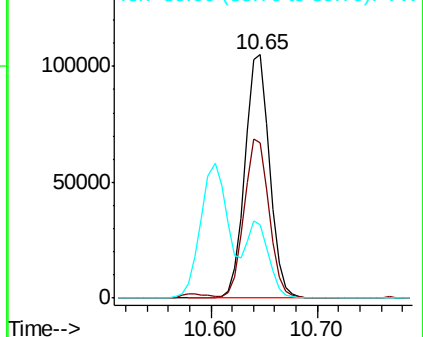


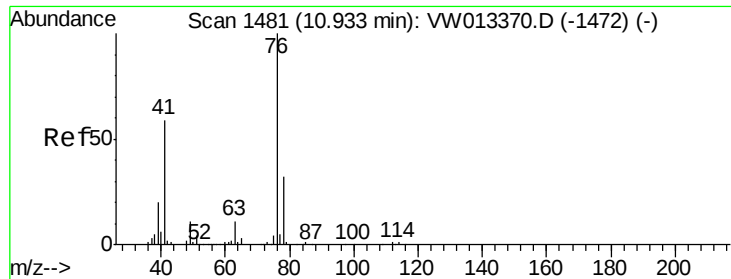
Abundance

Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#57

1,3-Dichloropropane

Concen: 52.905 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 214917

Ion Ratio Lower Upper

76 100

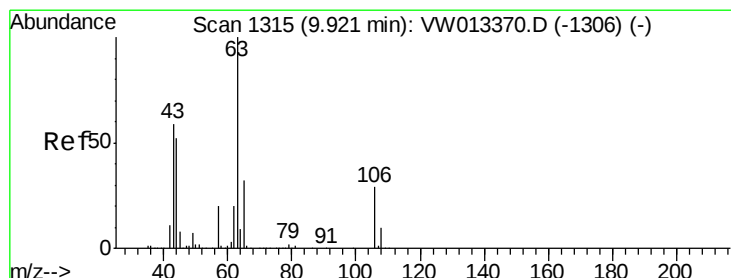
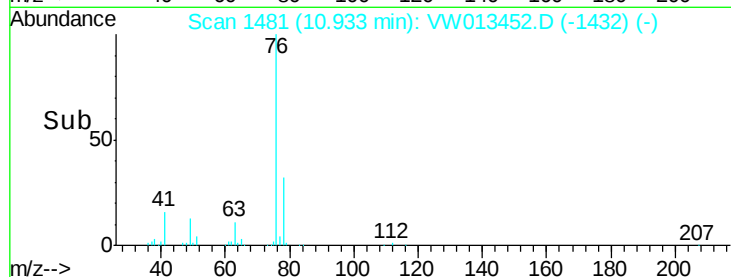
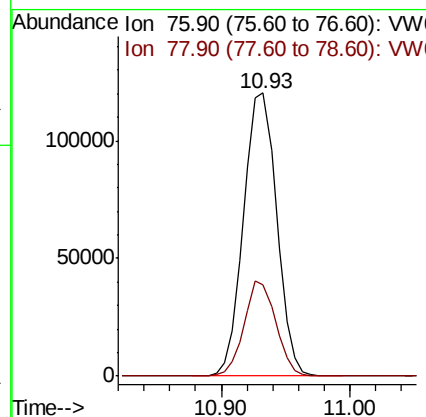
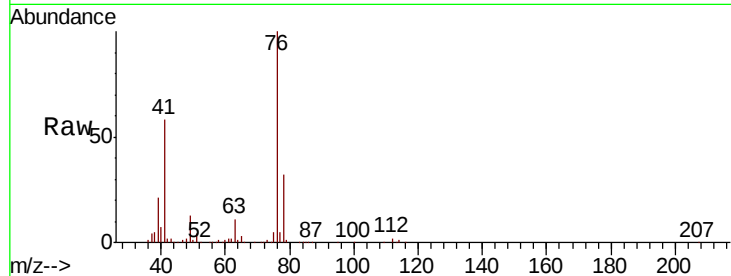
78 32.1 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

10/8/2019 1:30:55 PM



#58

2-Chloroethyl Vinyl ether

Concen: 269.580 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW013452.D

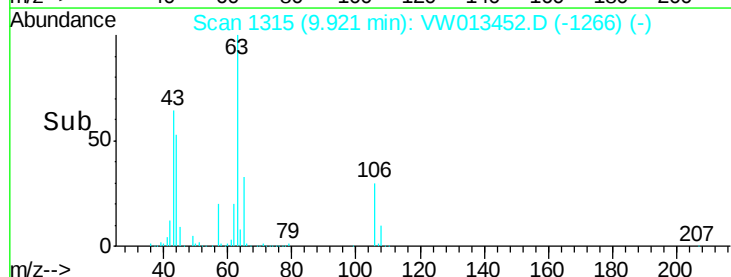
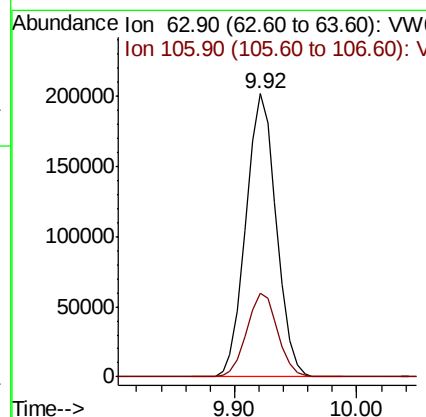
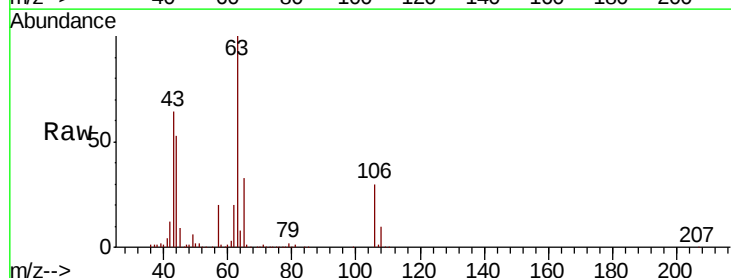
Acq: 07 Oct 2019 10:04

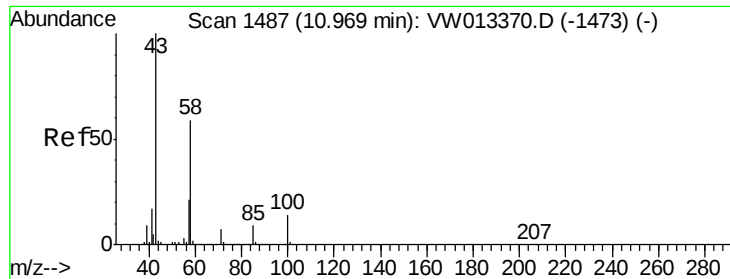
Tgt Ion: 63 Resp: 348295

Ion Ratio Lower Upper

63 100

106 29.9 23.4 35.0





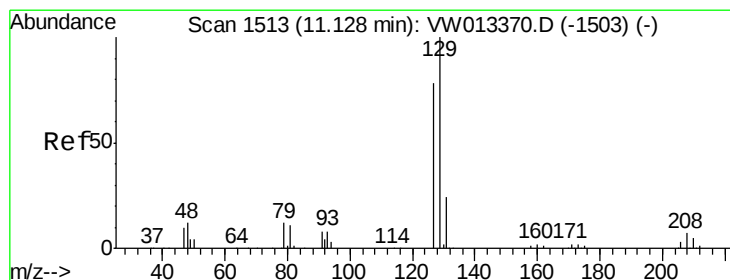
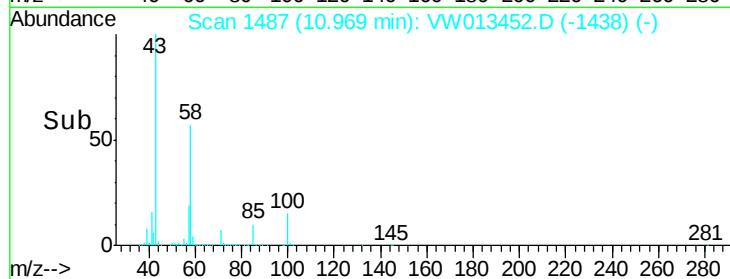
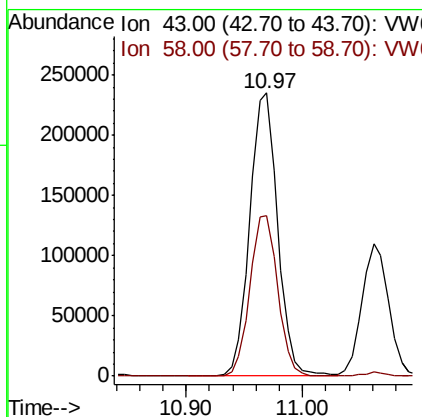
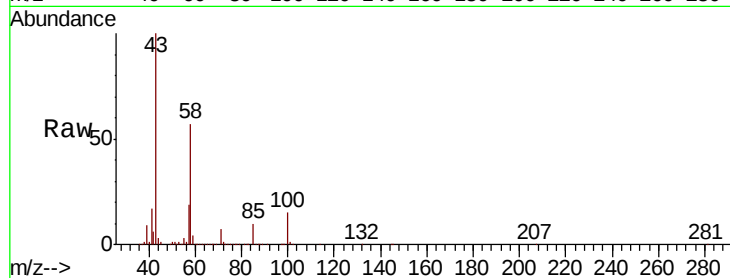
#59
2-Hexanone
Concen: 282.498 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.1	84.2

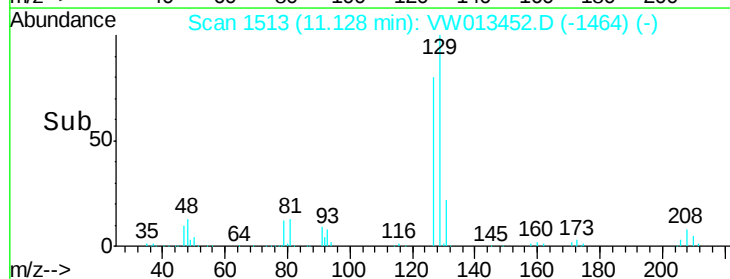
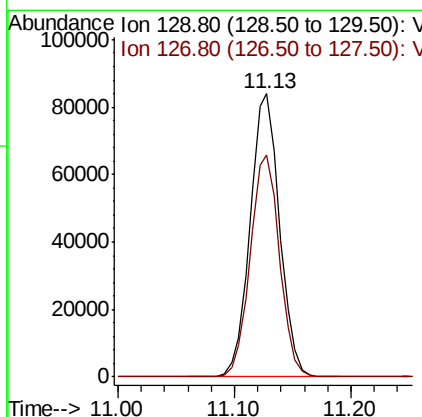
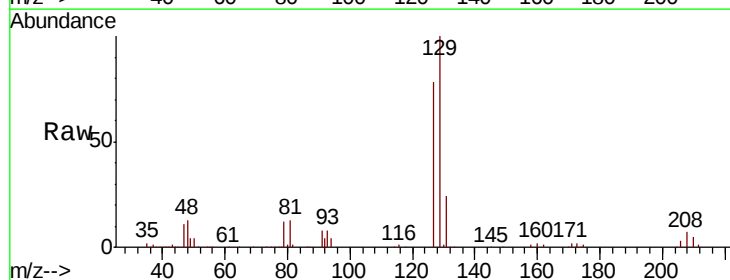
Manual Integrations
APPROVED

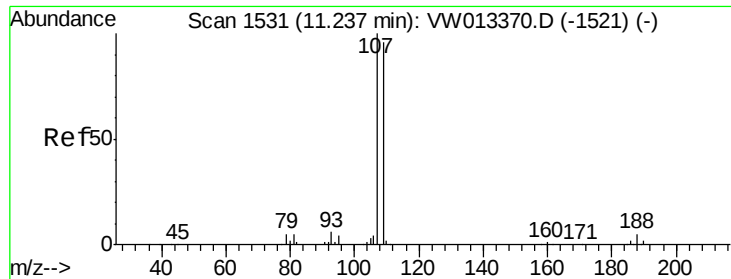
MMDadoda
10/8/2019 1:30:55 PM



#60
Dibromochloromethane
Concen: 55.356 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.8	116.4





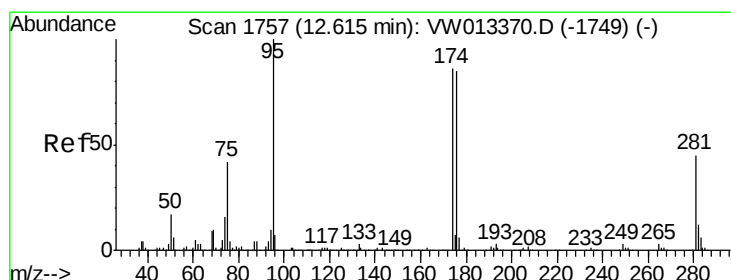
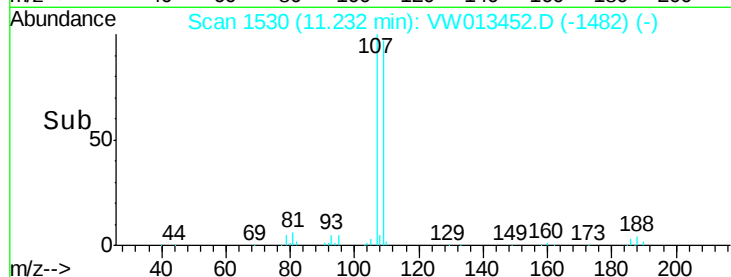
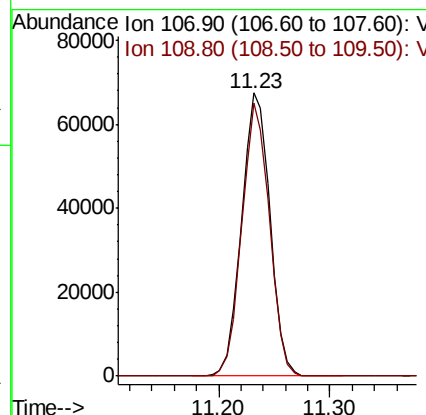
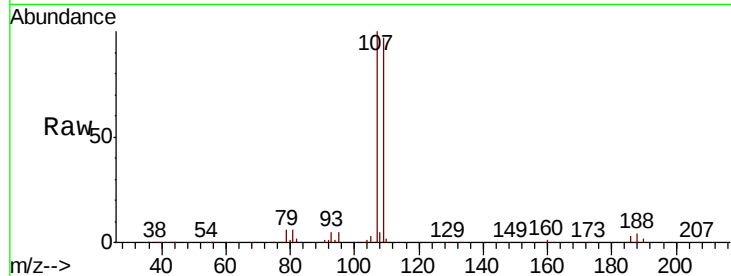
#61
 1,2-Dibromoethane
 Concen: 52.684 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	118960		
109	94.1	75.2	112.8	

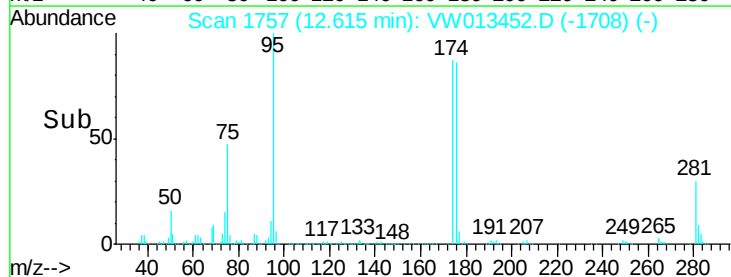
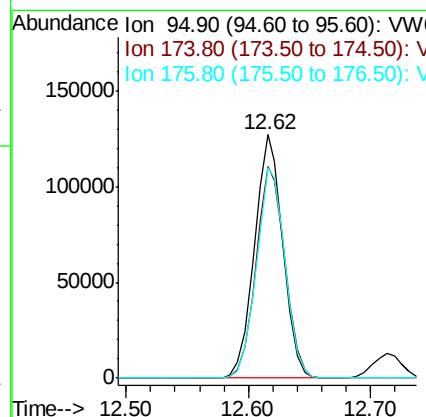
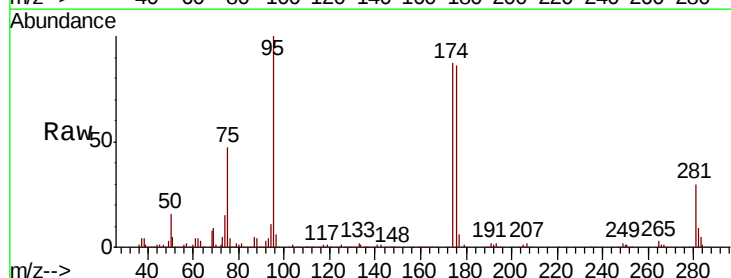
Manual Integrations
 APPROVED

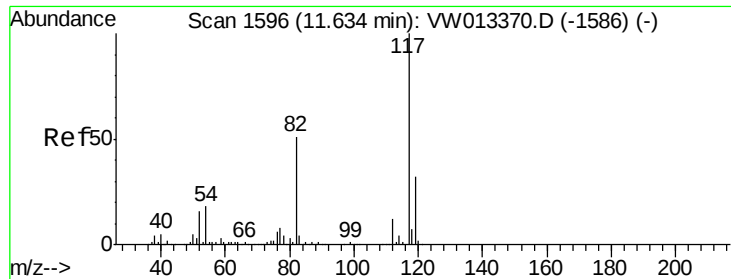
MMDadoda
 10/8/2019 1:30:55 PM



#62
 4-Bromofluorobenzene
 Concen: 56.490 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	204633		
174	88.3	0.0	178.4	
176	87.2	0.0	172.2	





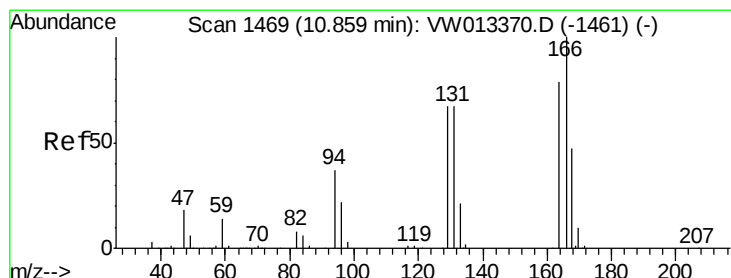
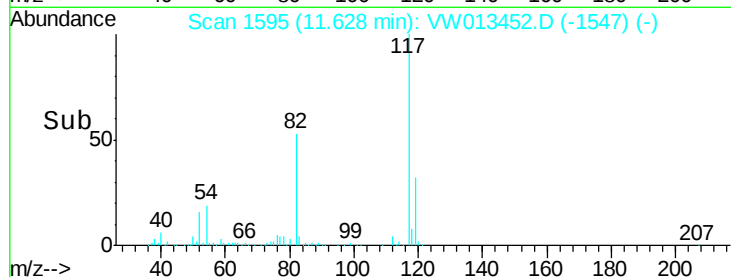
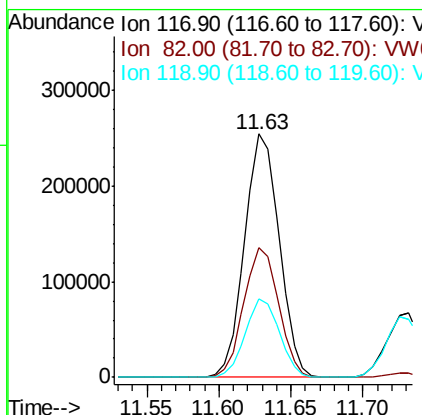
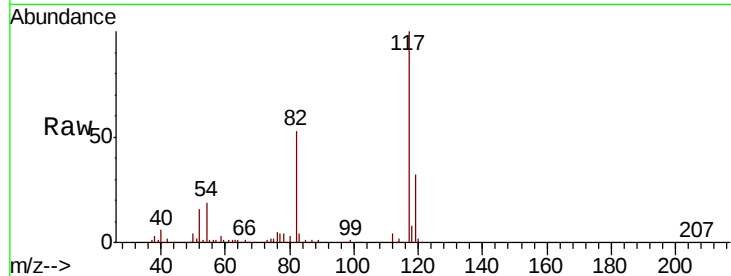
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	45.9	68.9
119	32.5	26.2	39.2

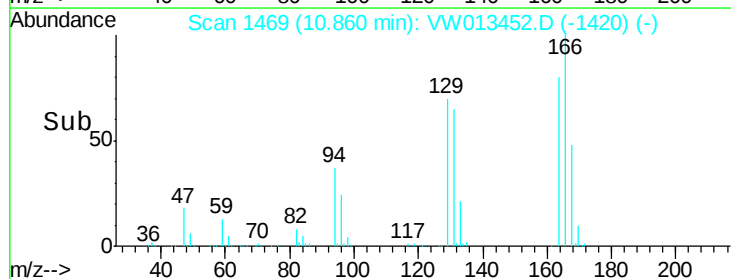
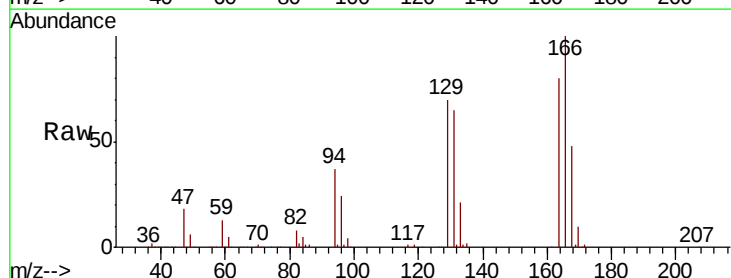
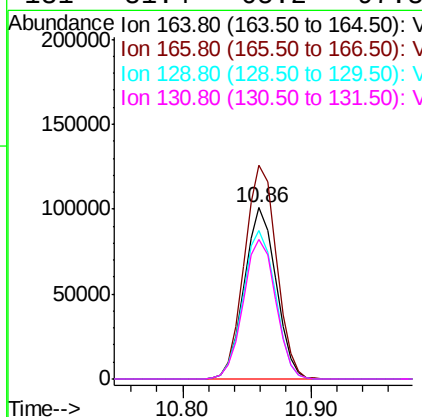
Manual Integrations
APPROVED

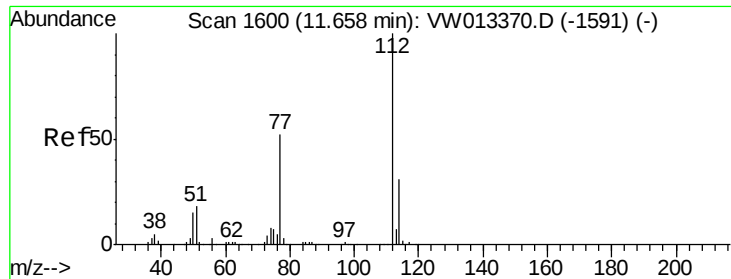
MMDadoda
10/8/2019 1:30:55 PM



#64
Tetrachloroethene
Concen: 53.049 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.0	101.2	151.8
129	87.1	68.8	103.2
131	81.4	65.2	97.8





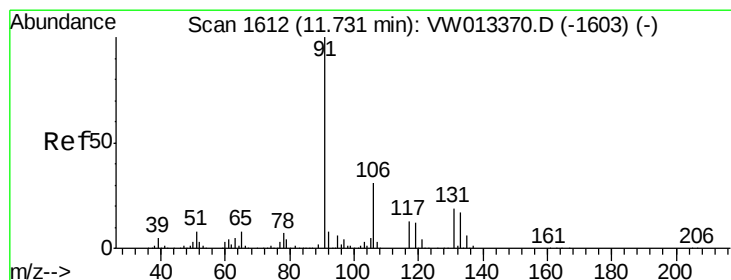
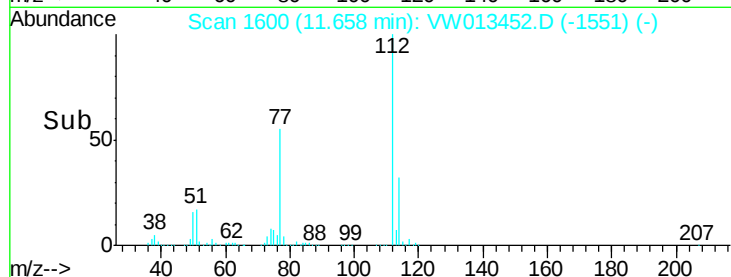
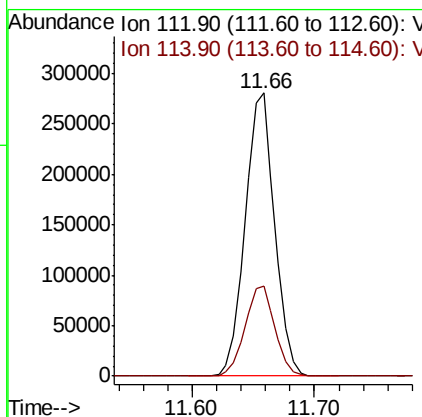
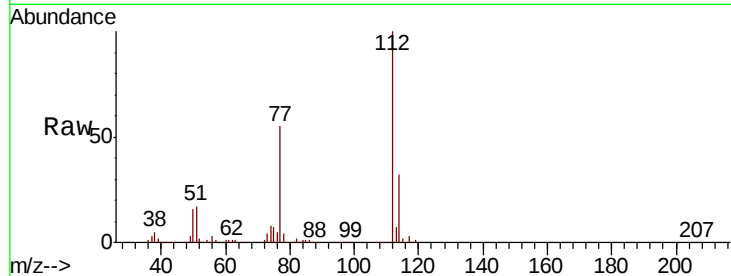
#65
Chlorobenzene
Concen: 53.896 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.5	39.7

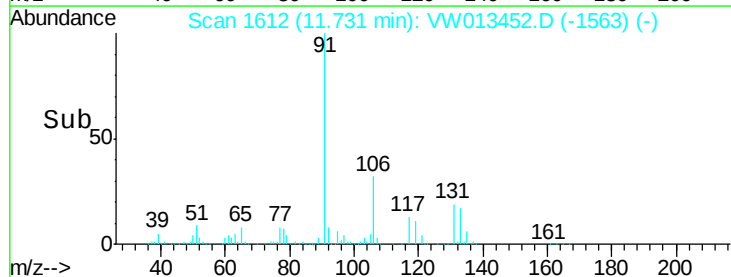
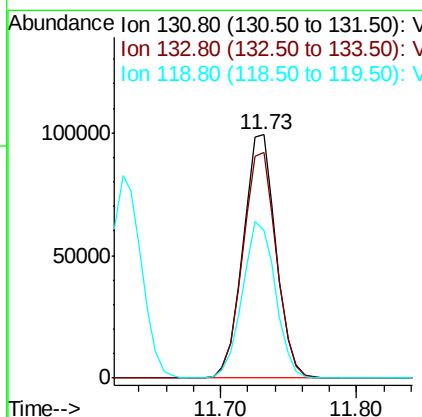
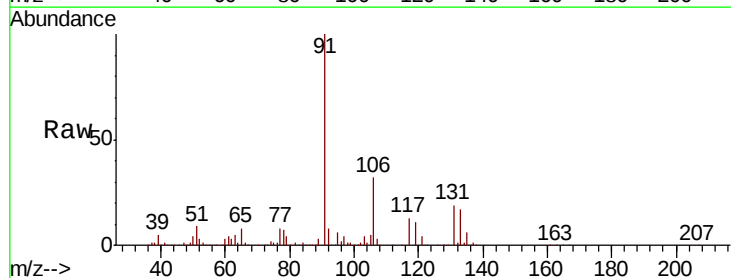
Manual Integrations
APPROVED

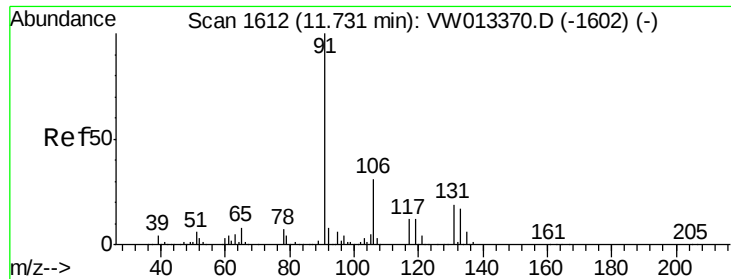
MMDadoda
10/8/2019 1:30:55 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 56.628 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.5	142.6
119	64.9	32.5	97.5





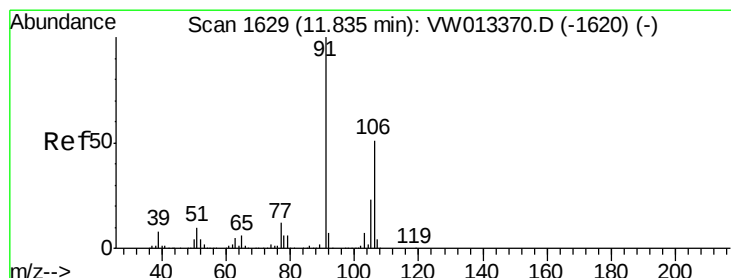
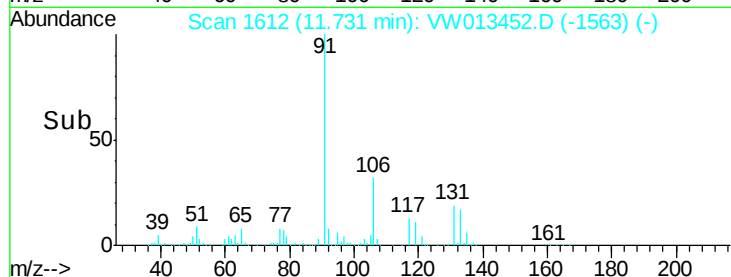
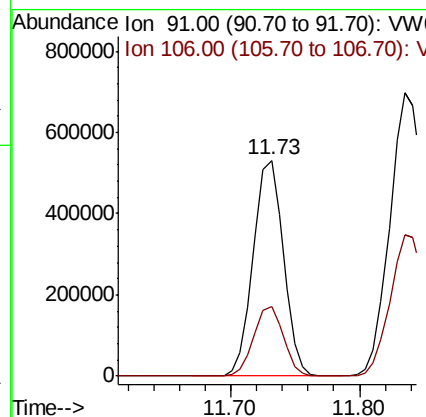
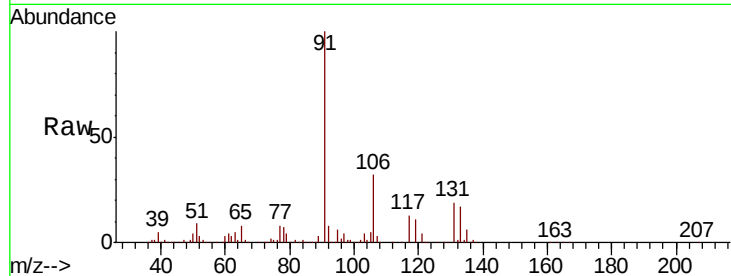
#67
Ethyl Benzene
Concen: 55.126 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 859386
Ion Ratio Lower Upper
91 100
106 32.4 24.9 37.3

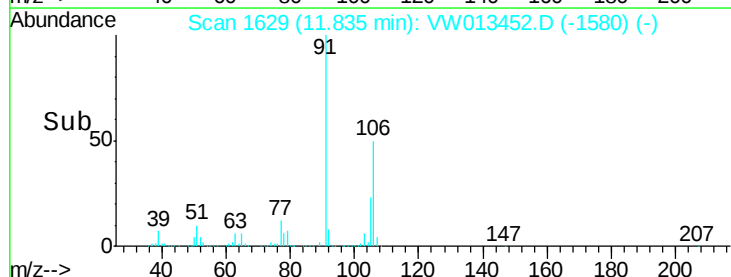
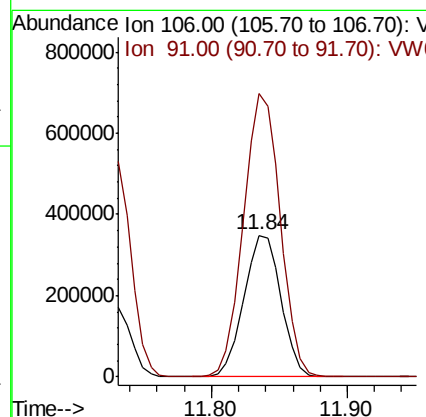
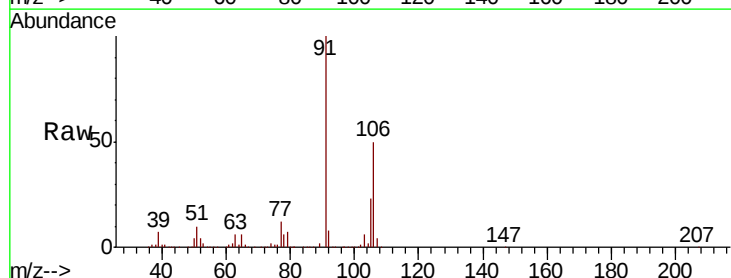
Manual Integrations
APPROVED

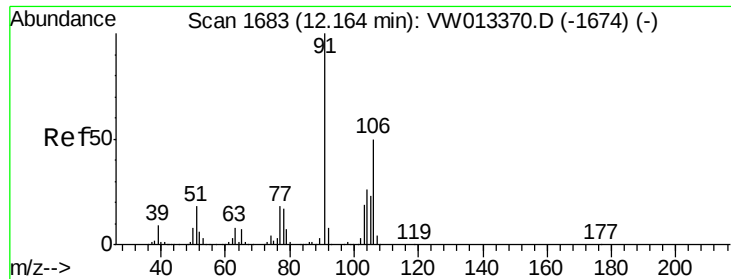
MMDadoda
10/8/2019 1:30:55 PM



#68
m/p-Xylenes
Concen: 110.207 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion: 106 Resp: 663153
Ion Ratio Lower Upper
106 100
91 198.9 157.9 236.9





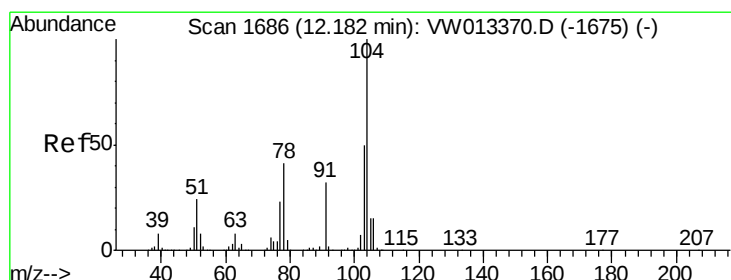
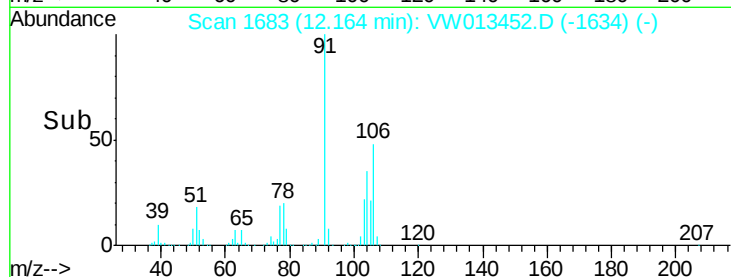
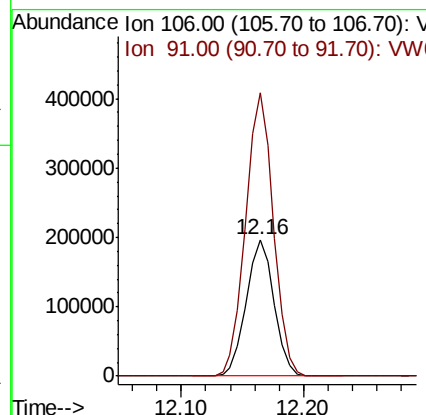
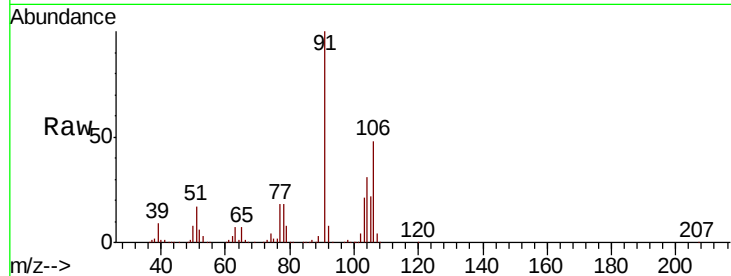
#69
o-Xylene
Concen: 55.777 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	207.2	106.5	319.5

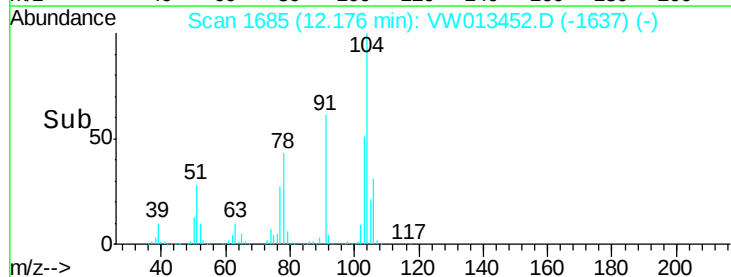
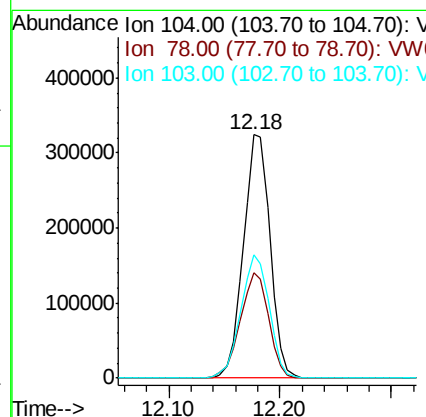
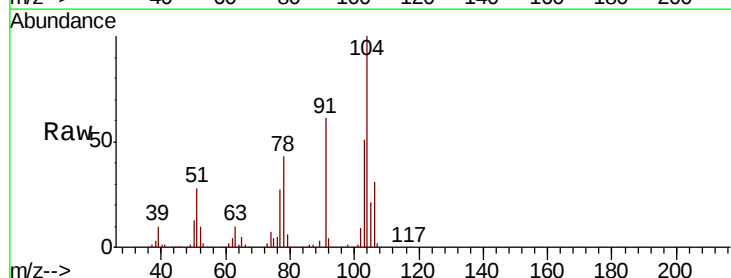
Manual Integrations
APPROVED

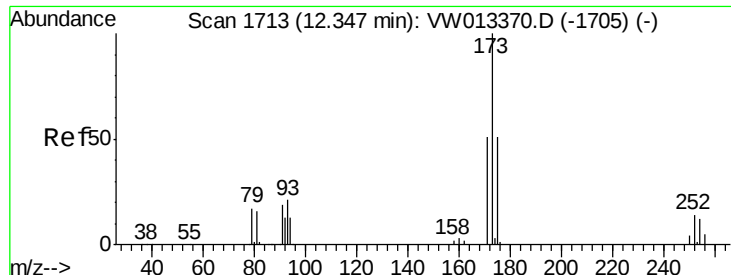
MMDadoda
10/8/2019 1:30:55 PM



#70
Styrene
Concen: 56.573 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.0	38.4	57.6
103	54.0	43.3	64.9





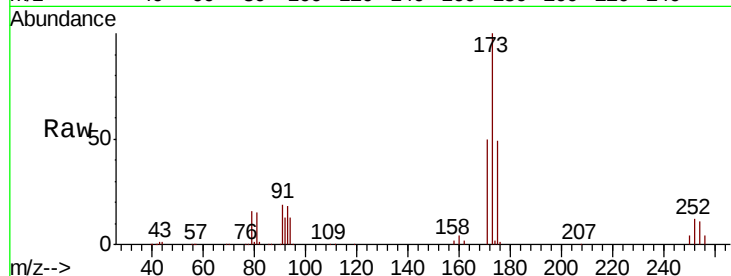
#71
Bromoform
Concen: 57.343 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

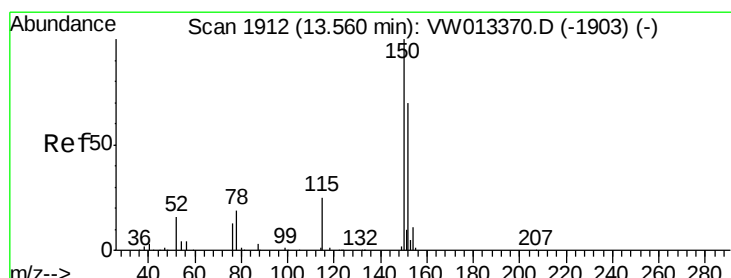
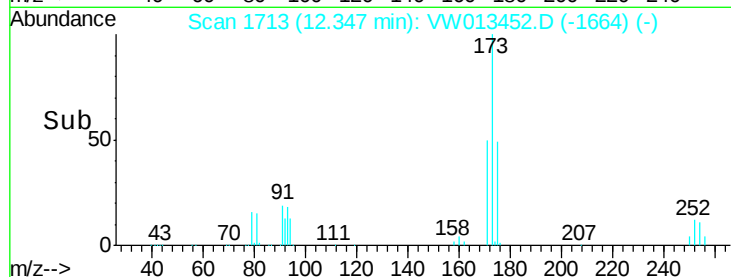
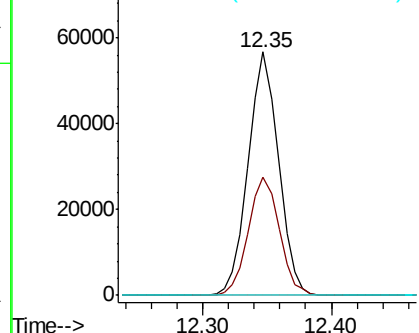
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.3	73.0
254	0.1	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM

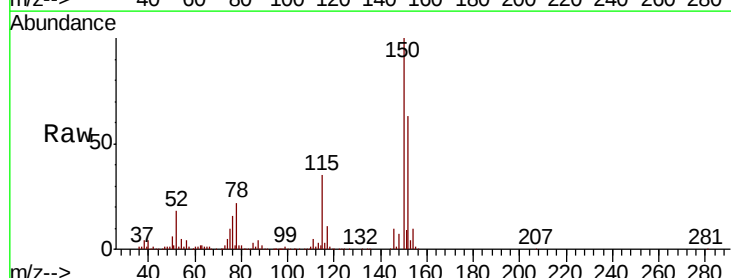


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

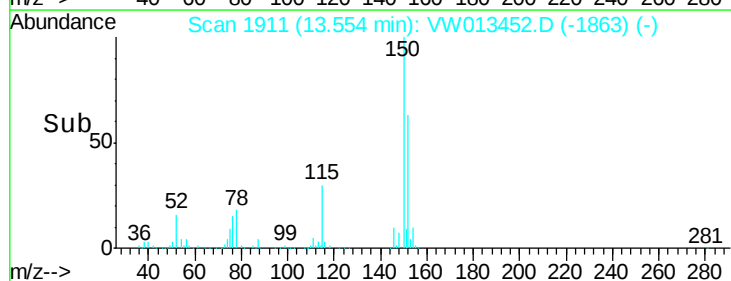
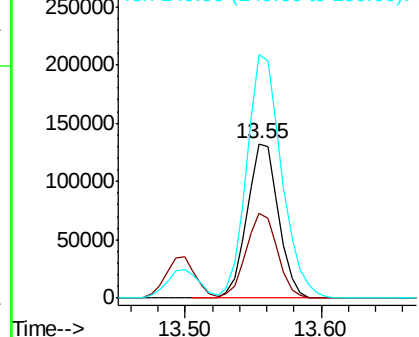


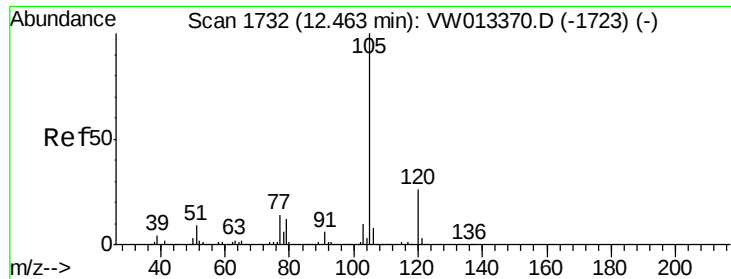
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	27.3	81.9
150	175.1	0.0	349.0



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





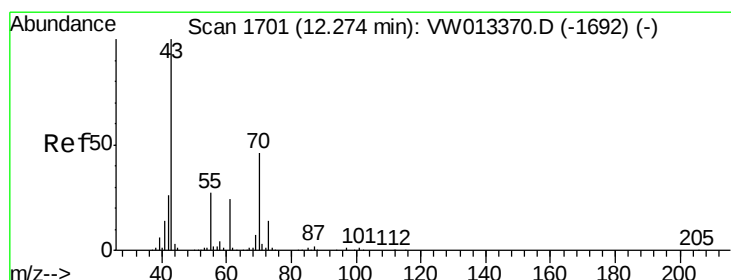
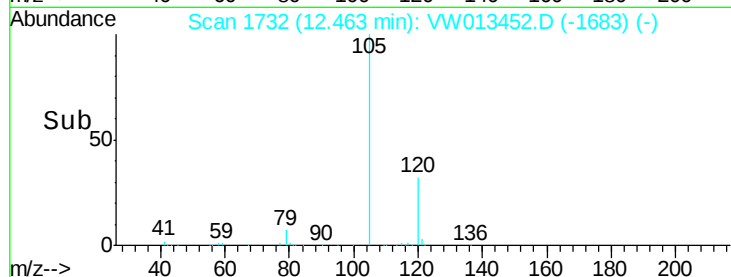
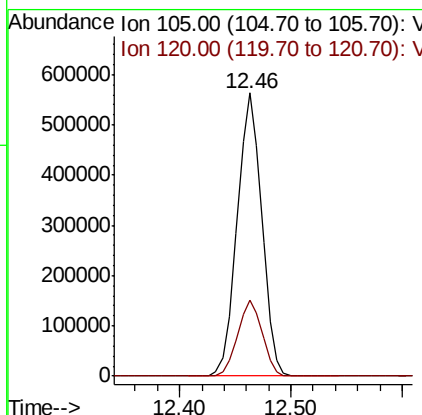
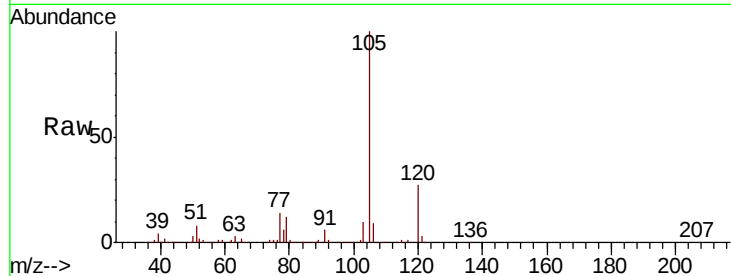
#73
Isopropylbenzene
Concen: 55.057 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.1

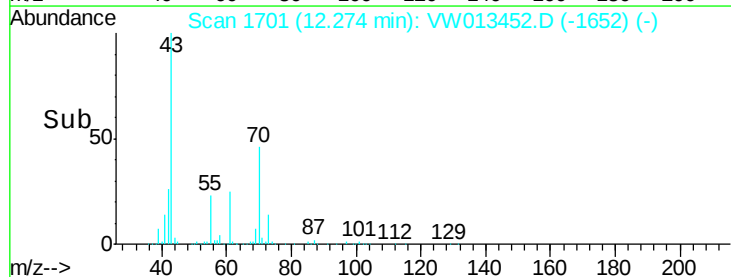
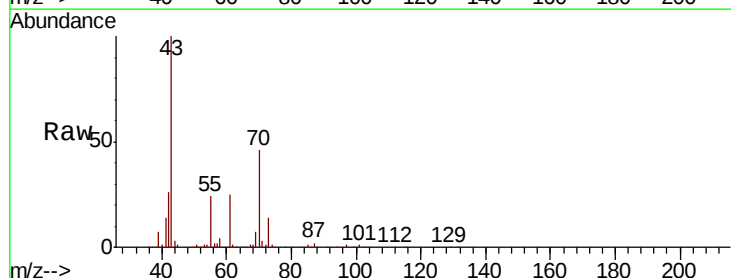
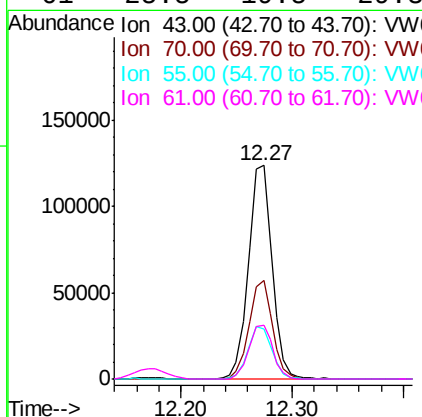
Manual Integrations
APPROVED

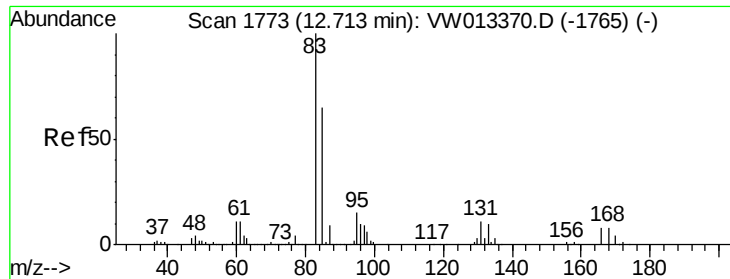
MMDadoda
10/8/2019 1:30:55 PM



#74
N-ethyl acetate
Concen: 55.031 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
43	100		
70	45.7	35.1	52.7
55	25.6	19.9	29.9
61	25.5	19.5	29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 52.706 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

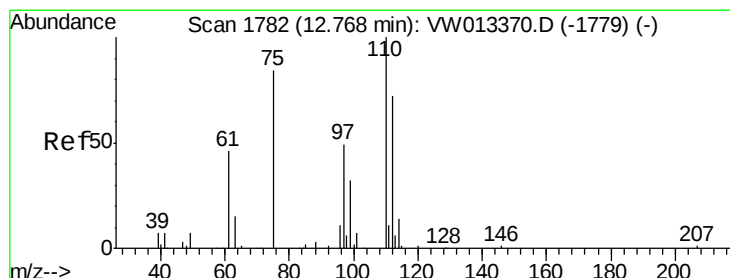
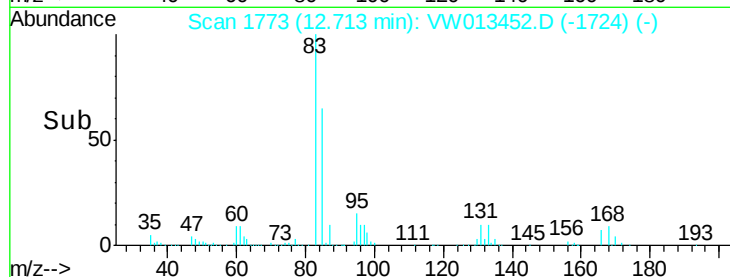
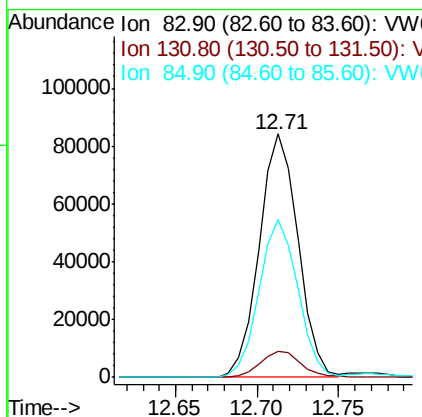
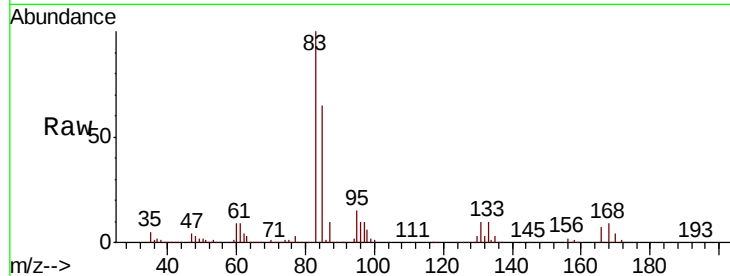
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	139434
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.4	16.2
85	64.8	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#76

1,2,3-Trichloropropane

Concen: 58.005 ug/l m

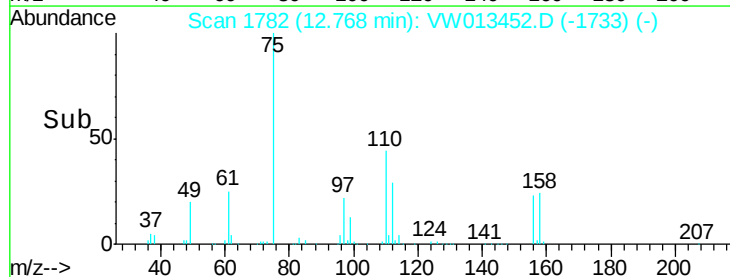
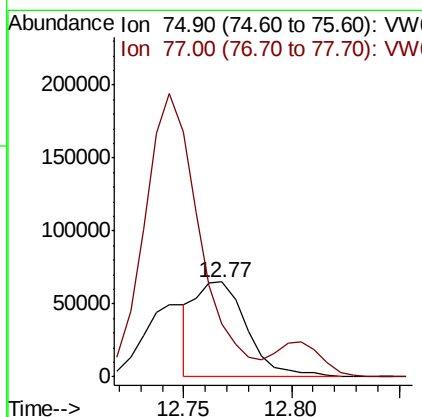
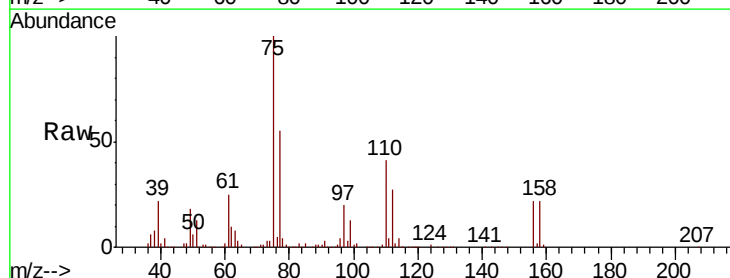
RT: 12.77 min Scan# 1782

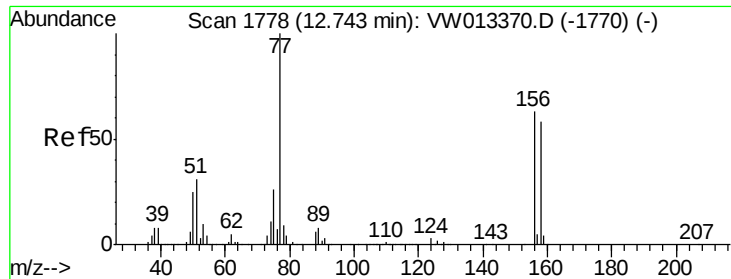
Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Tgt Ion:	75	Resp:	110157
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





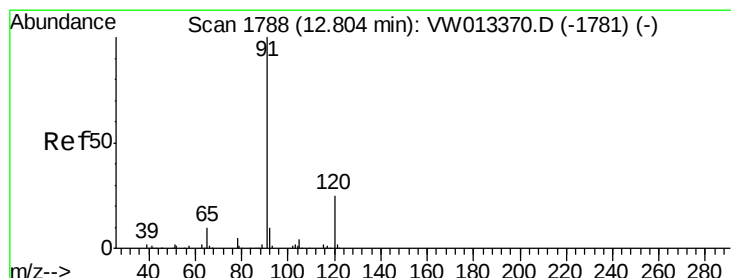
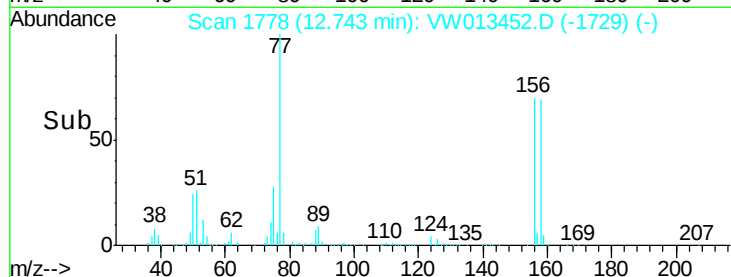
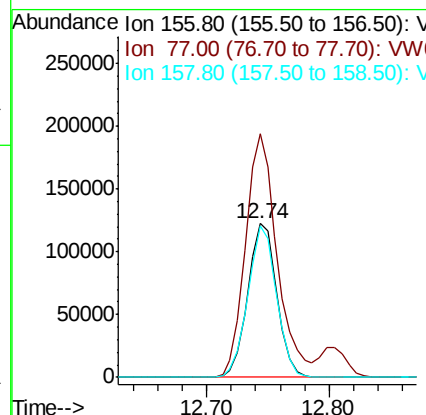
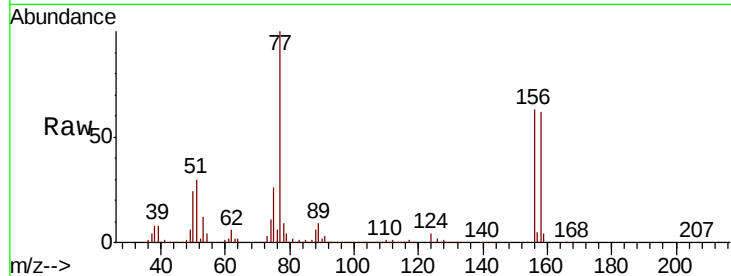
#77
Bromobenzene
Concen: 53.635 ug/l
RT: 12.74 min Scan# 1778
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	172.7	85.7	257.1	
158	97.2	48.1	144.4	

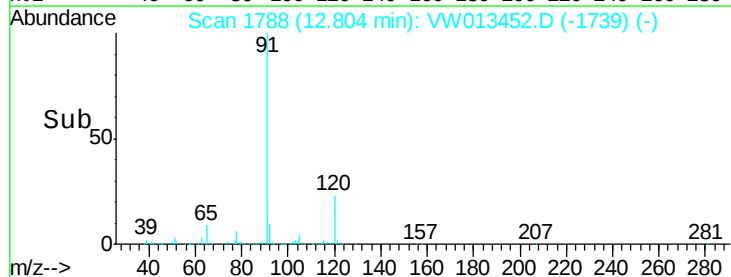
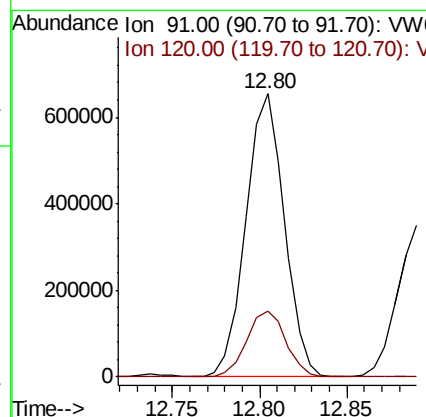
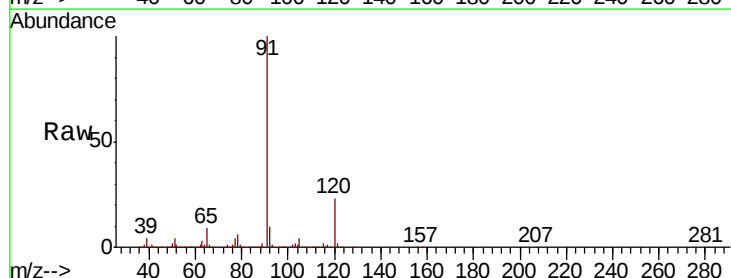
Manual Integrations
APPROVED

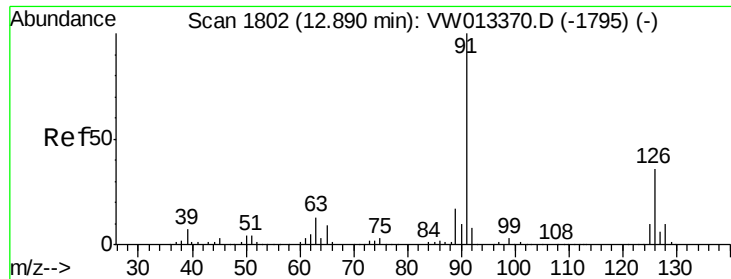
MMDadoda
10/8/2019 1:30:55 PM



#78
n-propylbenzene
Concen: 55.529 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.8	11.7	35.1	





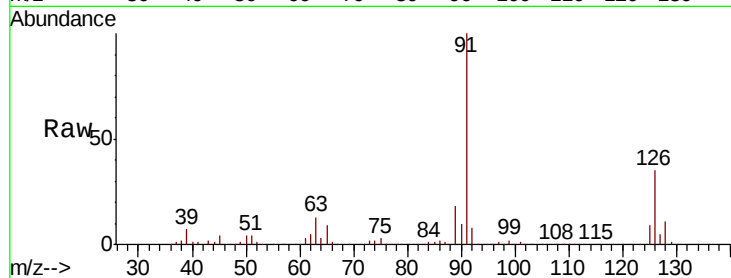
#79
2-Chlorotoluene
Concen: 55.363 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

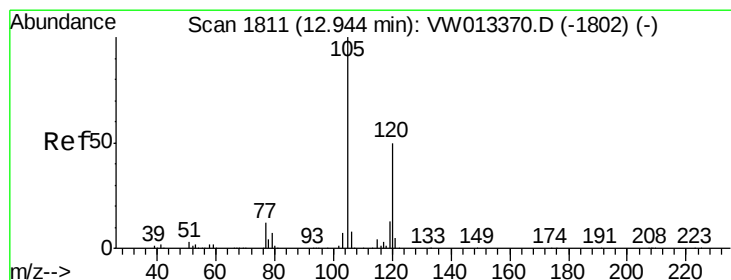
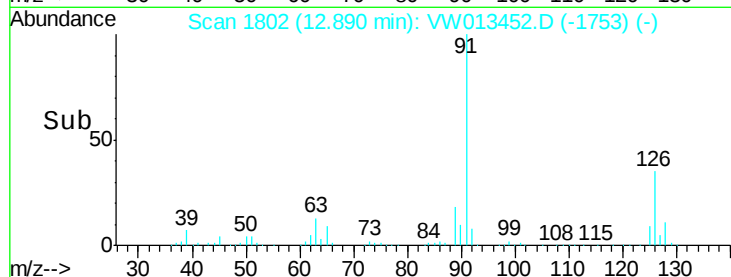
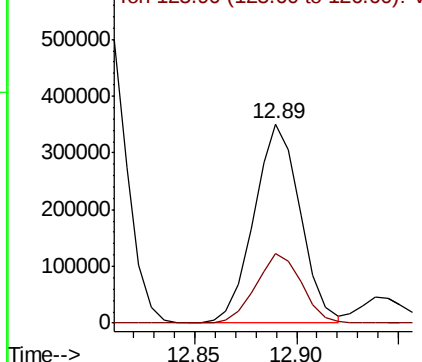
Tot Ion: 91 Resp: 552852
Ion Ratio Lower Upper
91 100
126 34.7 17.2 51.5

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM

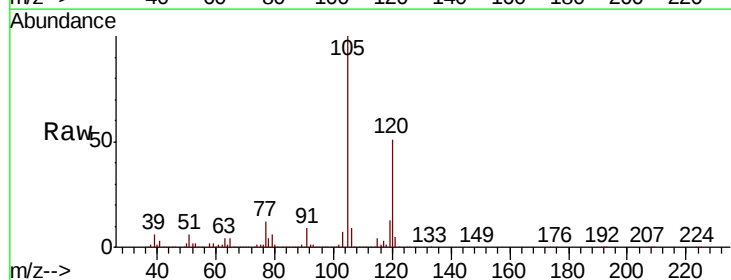


Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 125.90 (125.60 to 126.60): V

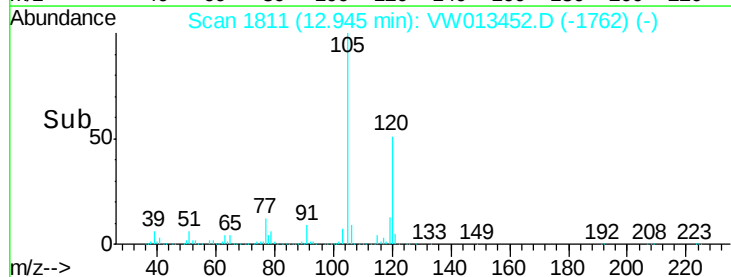
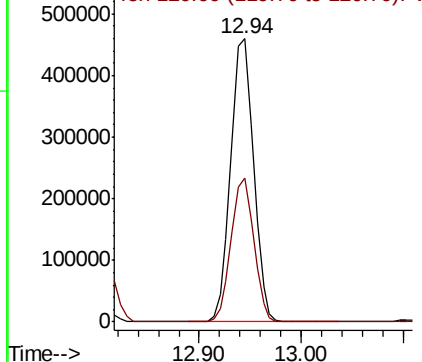


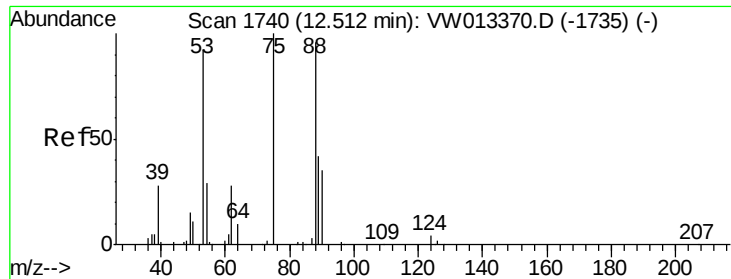
#80
1,3,5-Trimethylbenzene
Concen: 54.965 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion: 105 Resp: 713644
Ion Ratio Lower Upper
105 100
120 50.4 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





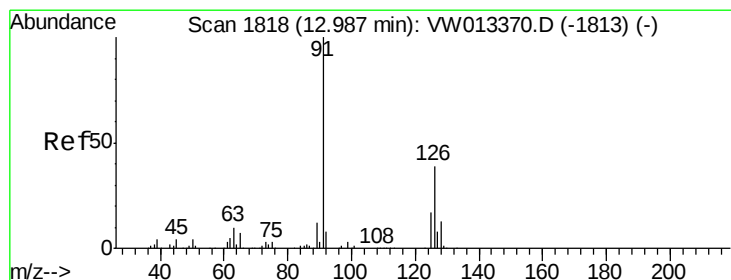
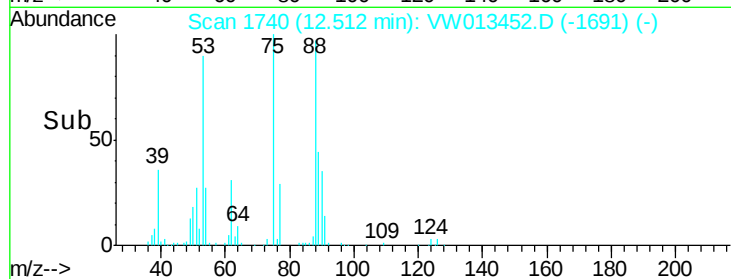
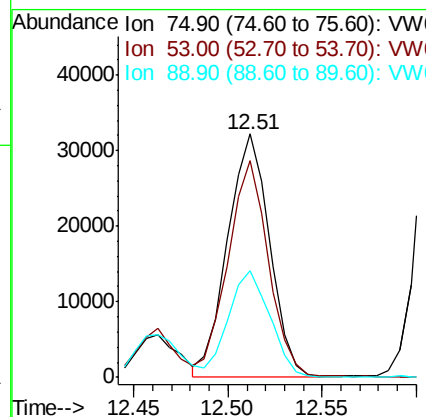
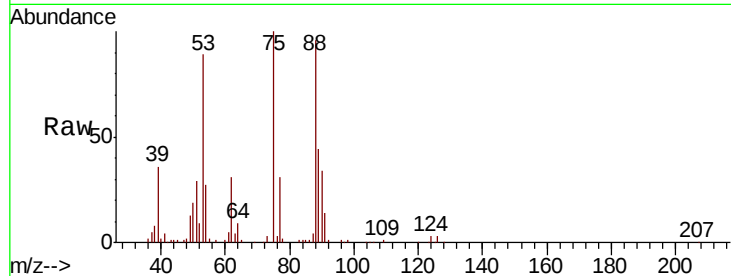
#81
trans-1,4-Dichloro-2-butene
Concen: 55.365 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	86.3	76.6	114.8
89	43.0	33.5	50.3

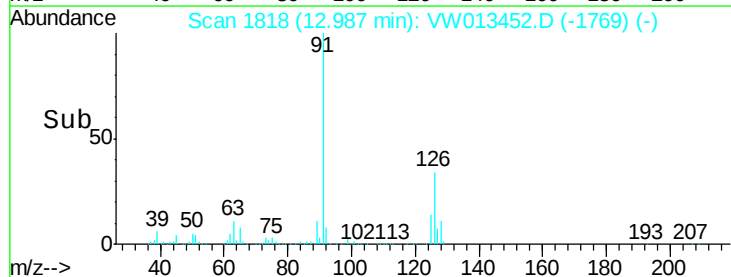
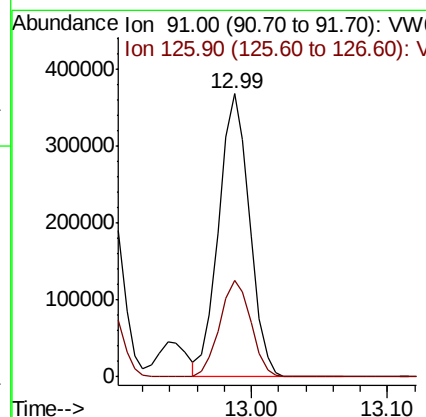
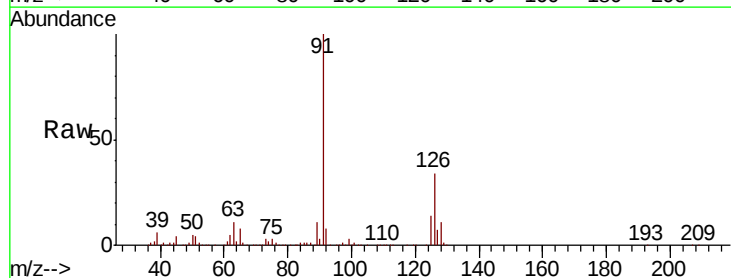
Manual Integrations
APPROVED

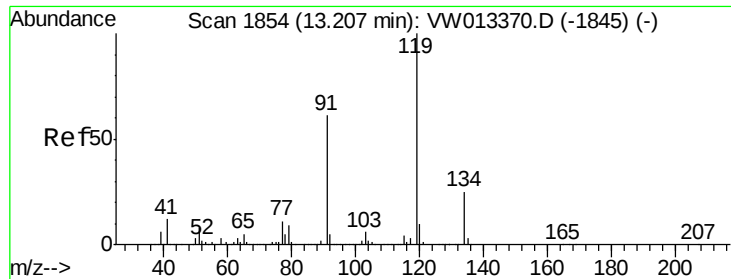
MMDadoda
10/8/2019 1:30:55 PM



#82
4-Chlorotoluene
Concen: 55.057 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	51.7





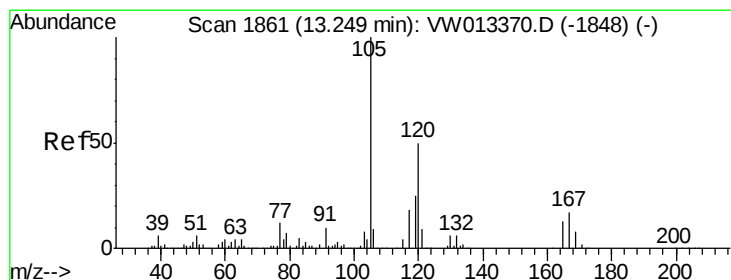
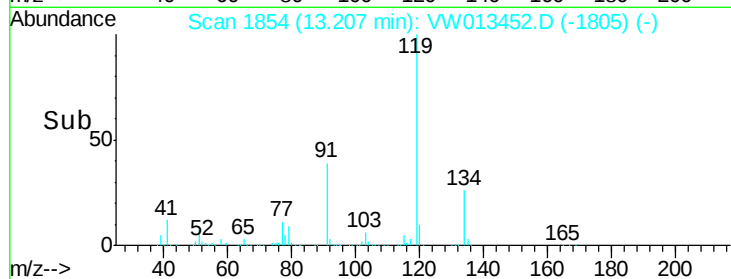
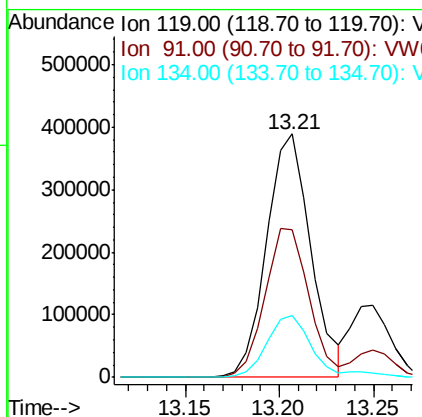
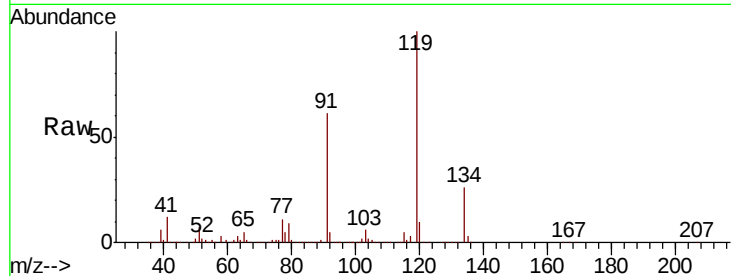
#83
 tert-Butylbenzene
 Concen: 55.809 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.7	30.7	92.1
134	26.9	12.6	37.6

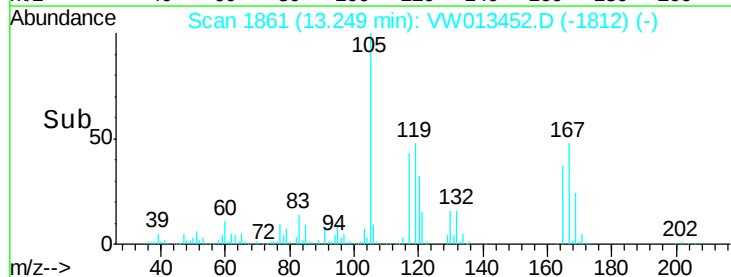
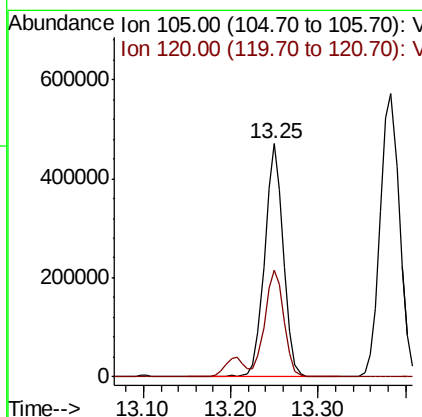
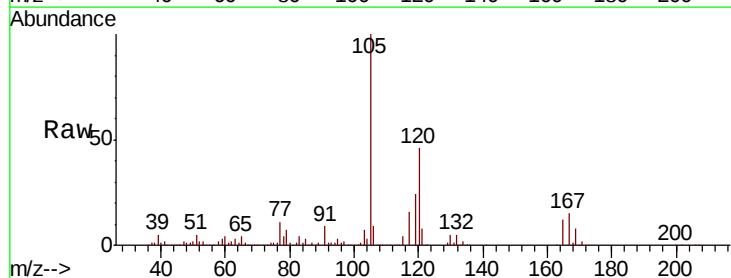
Manual Integrations
 APPROVED

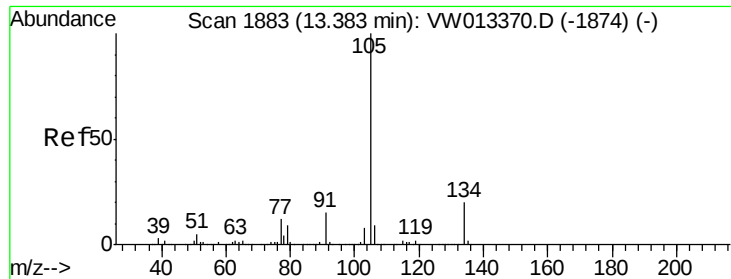
MMDadoda
 10/8/2019 1:30:55 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 54.656 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.4	70.3





#85

sec-Butylbenzene

Concen: 55.642 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 870010

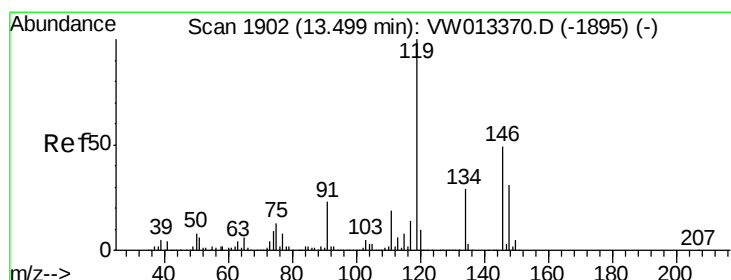
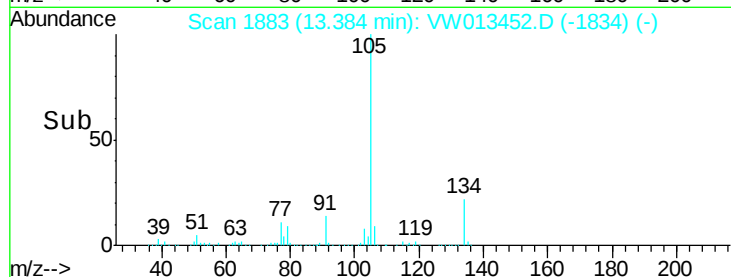
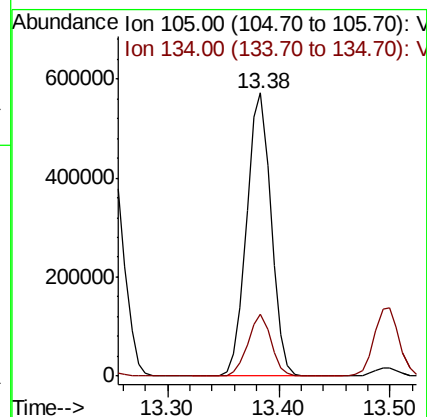
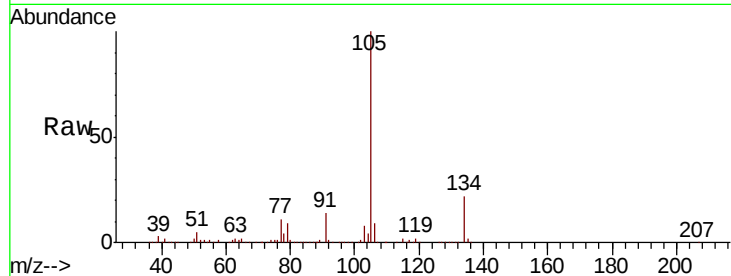
Ion Ratio Lower Upper

105 100

134 20.9 10.3 30.8

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#86

p-Isopropyltoluene

Concen: 55.404 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013452.D

Acq: 07 Oct 2019 10:04

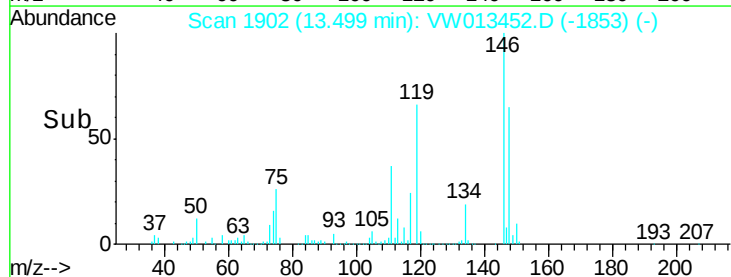
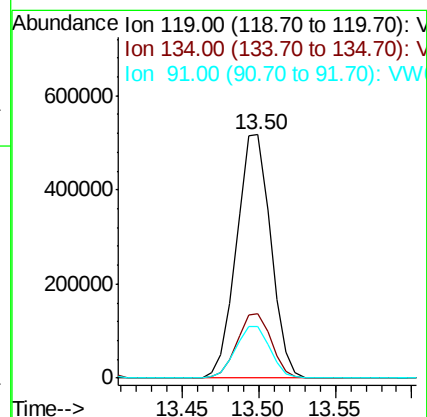
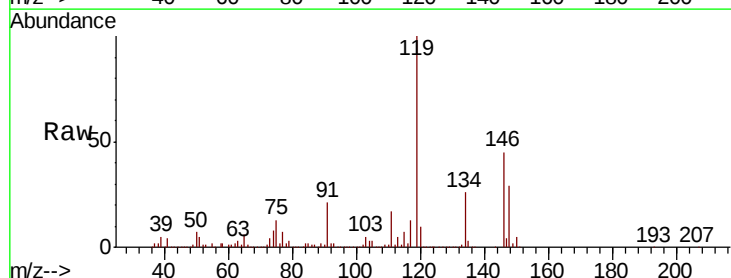
Tgt Ion:119 Resp: 802842

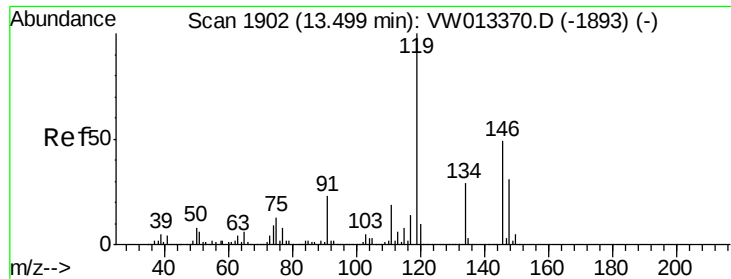
Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.8

91 21.4 10.8 32.4





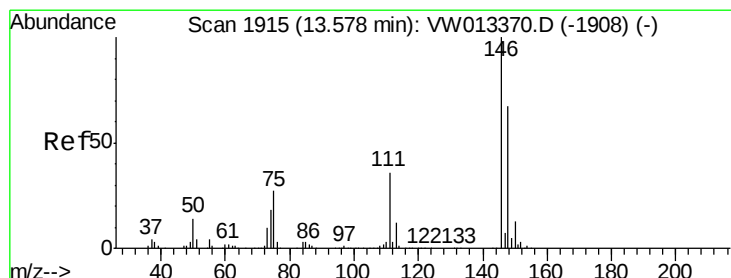
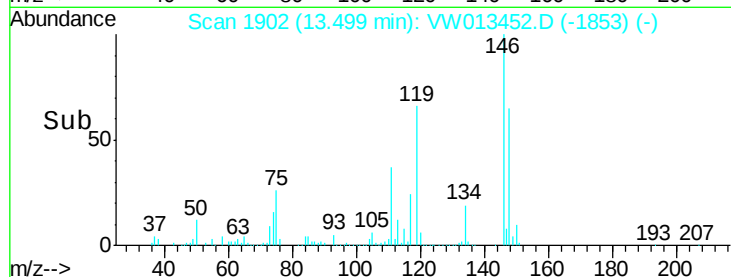
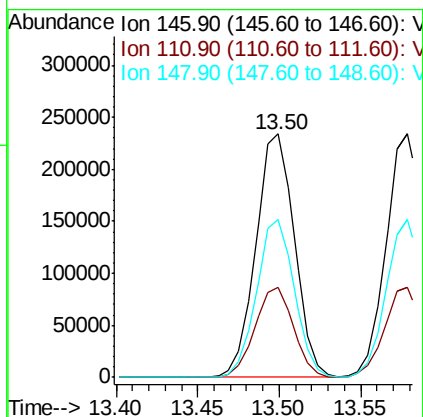
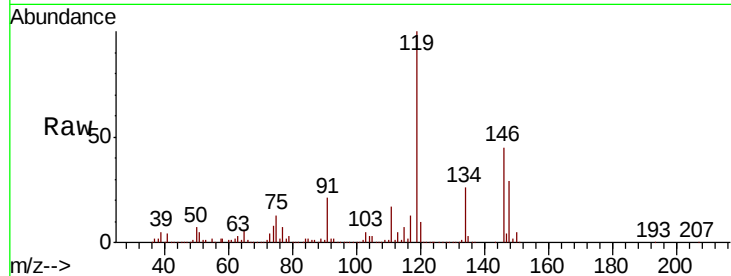
#87
 1,3-Dichlorobenzene
 Concen: 54.493 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	384766		
111	37.0		18.9	56.9
148	63.6		31.9	95.5

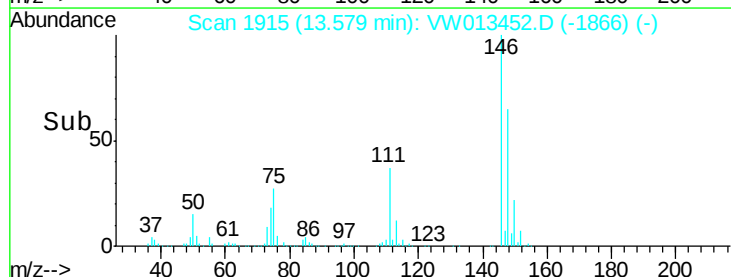
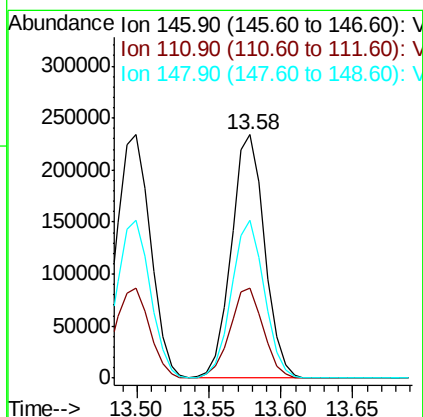
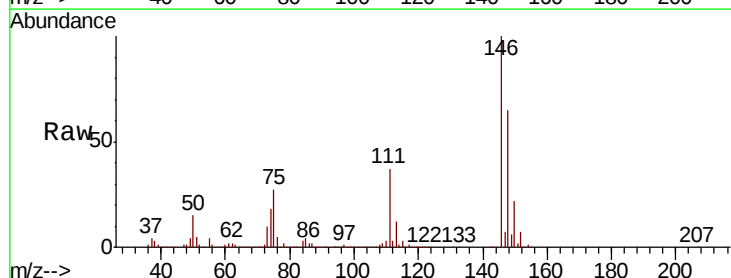
Manual Integrations
 APPROVED

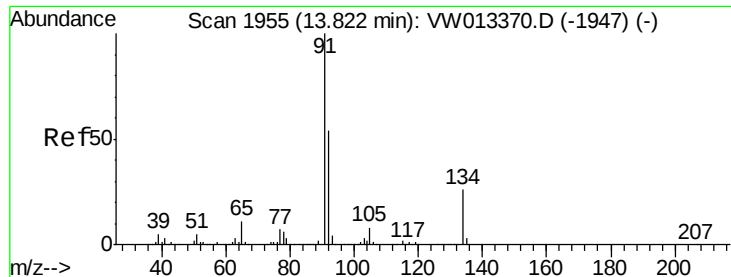
MMDadoda
 10/8/2019 1:30:55 PM



#88
 1,4-Dichlorobenzene
 Concen: 53.362 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	377253		
111	36.9		18.4	55.0
148	64.0		32.1	96.3





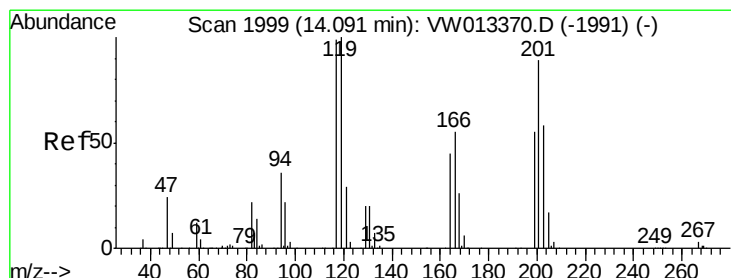
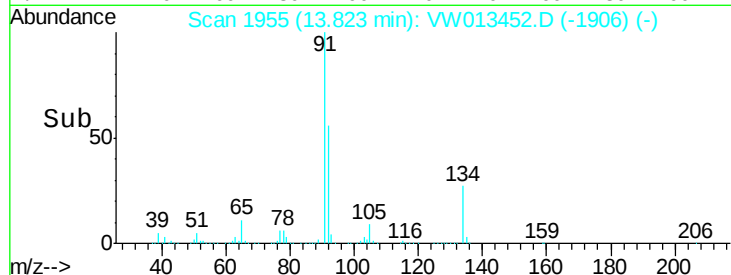
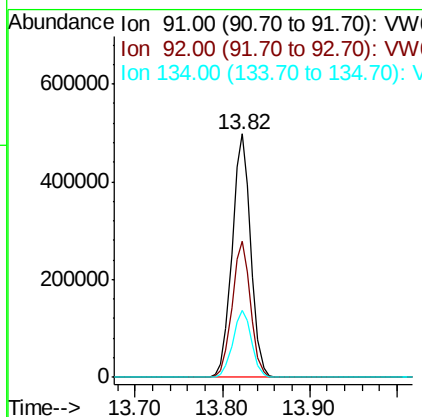
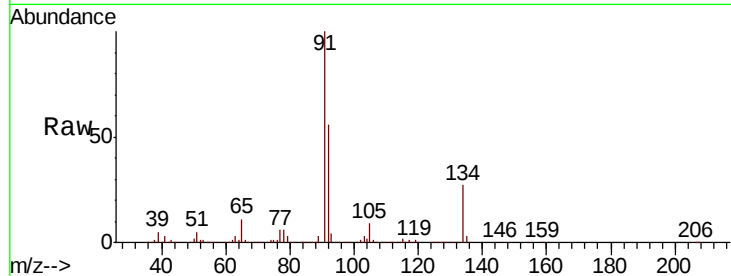
#89
n-Butylbenzene
Concen: 56.344 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.6	27.6	82.8
134	27.8	13.7	41.1

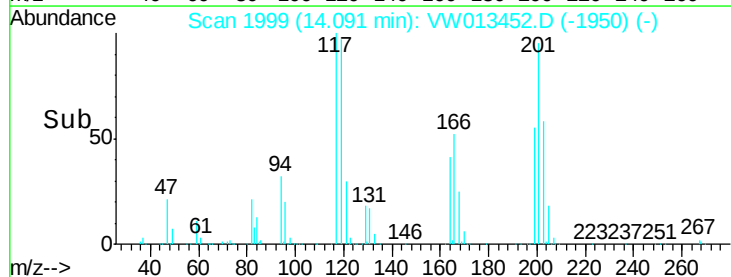
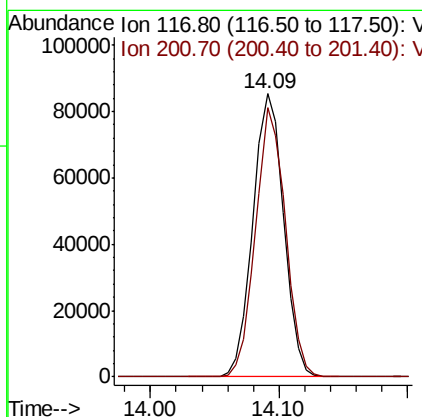
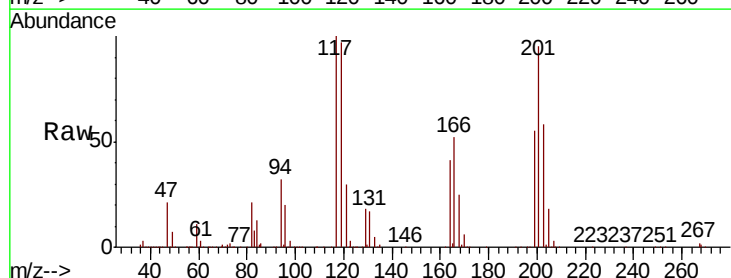
Manual Integrations
APPROVED

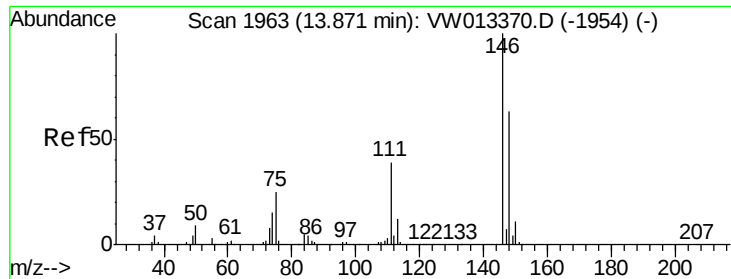
MMDadoda
10/8/2019 1:30:55 PM



#90
Hexachloroethane
Concen: 58.609 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.2	44.5	133.5





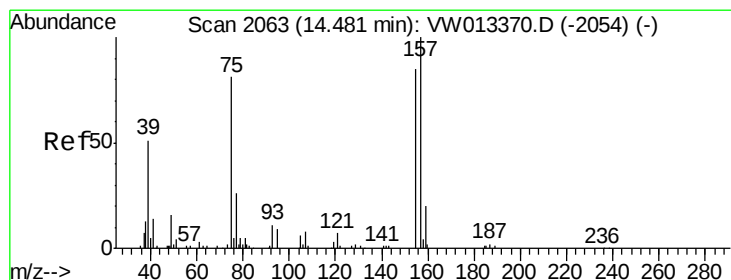
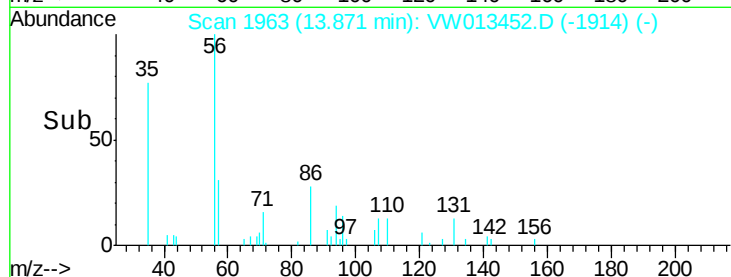
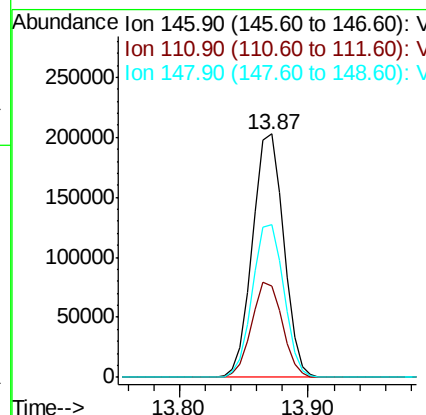
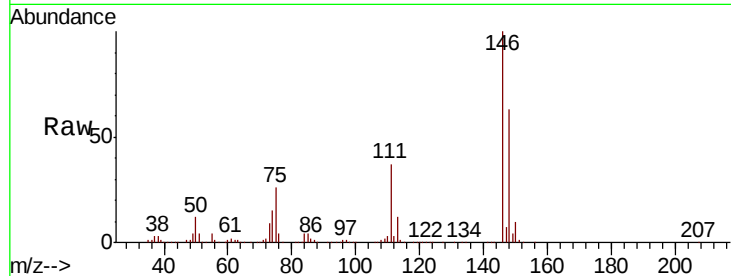
#91
 1,2-Dichlorobenzene
 Concen: 54.258 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	20.1	60.3
148	63.4	32.0	96.0

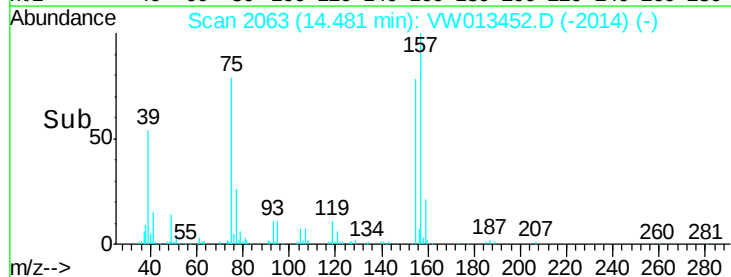
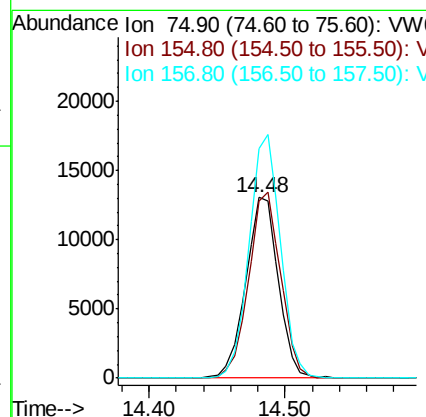
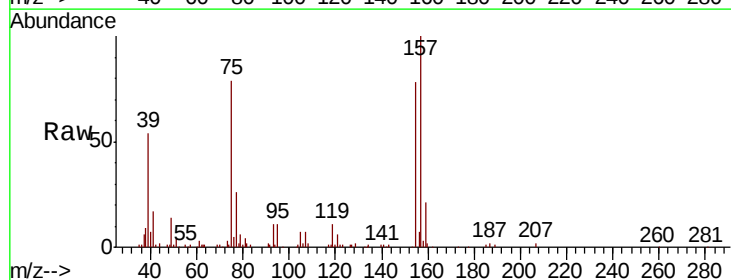
Manual Integrations
 APPROVED

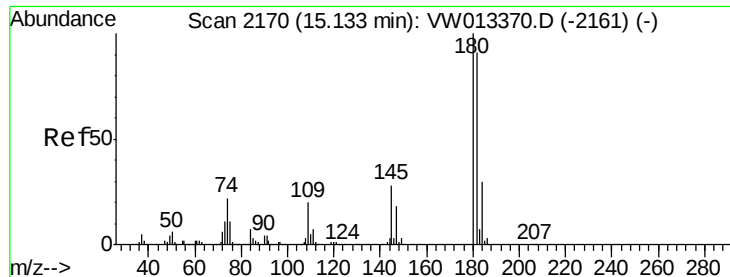
MMDadoda
 10/8/2019 1:30:55 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.122 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.3	46.1	138.3
157	130.6	60.4	181.2





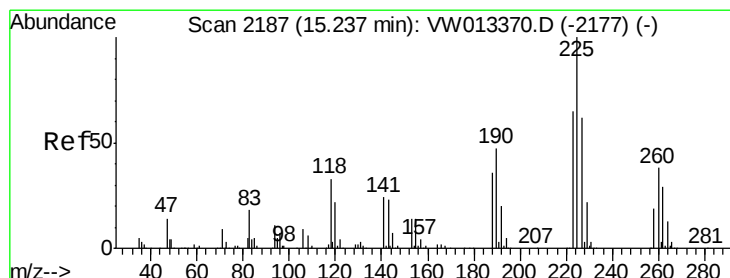
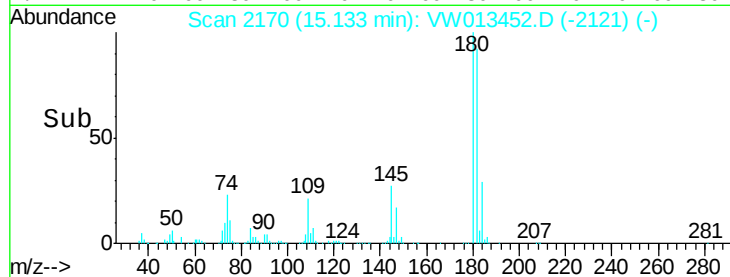
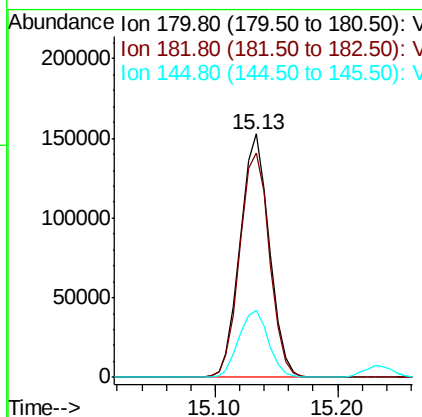
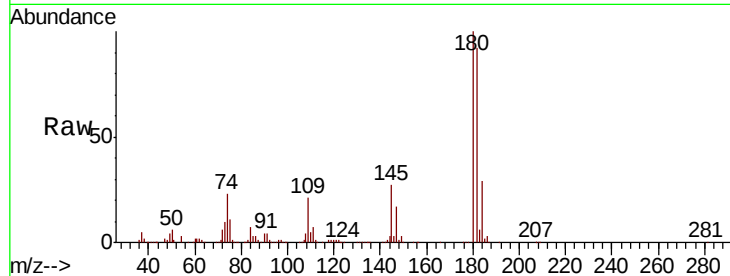
#93
 1,2,4-Trichlorobenzene
 Concen: 56.267 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.2	47.3	142.0	
145	28.0	14.2	42.8	

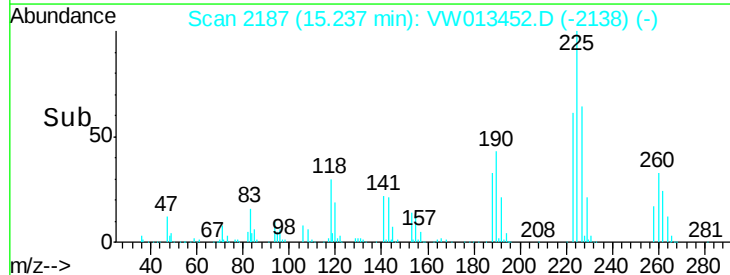
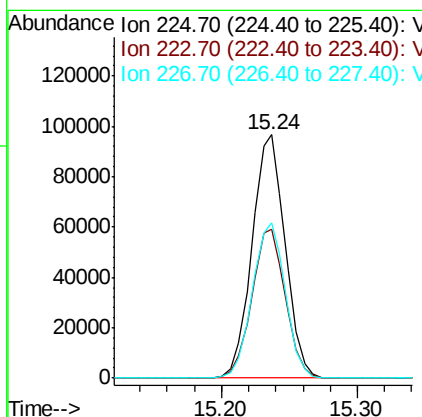
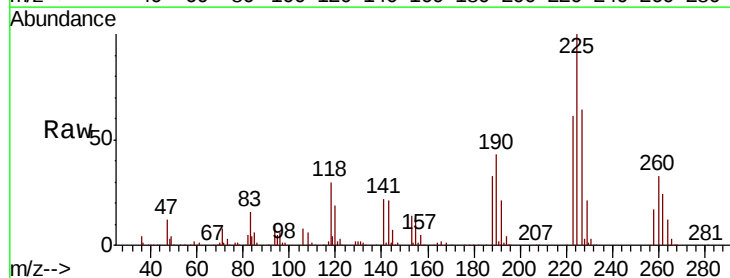
Manual Integrations
 APPROVED

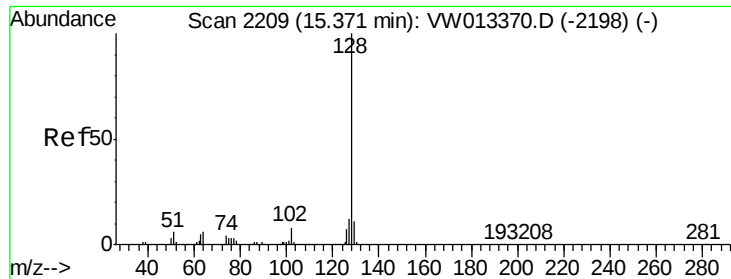
MMDadoda
 10/8/2019 1:30:55 PM



#94
 Hexachlorobutadiene
 Concen: 56.467 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW013452.D
 Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.0	30.6	91.8	
227	63.7	31.9	95.9	





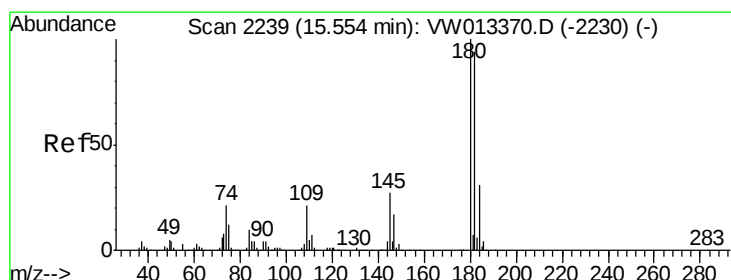
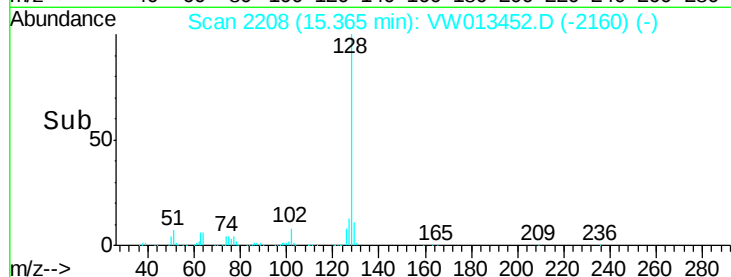
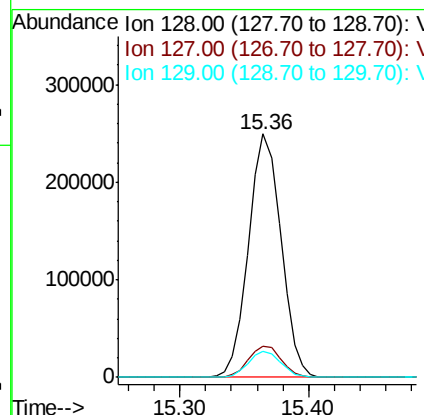
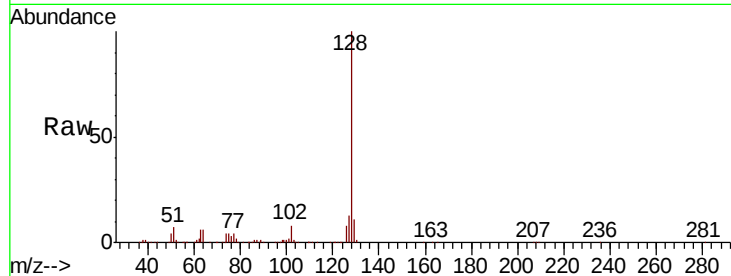
#95
Naphthalene
Concen: 57.517 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/8/2019 1:30:55 PM



#96
1,2,3-Trichlorobenzene
Concen: 55.392 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VW013452.D
Acq: 07 Oct 2019 10:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.7
145	30.5	15.0	45.0

