

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006613.D
 Acq On : 18 Dec 2018 22:58
 Operator : JC/MD
 Sample : VX1218WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 11:22:54 AM

Quant Time: Dec 19 07:12:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	604327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	956688	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	880216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	440484	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	327567	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
35) Dibromofluoromethane	5.50	113	290971	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	8.71	98	1112036	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	11.13	95	407725	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	106005	19.174	ug/l	100
3) Chloromethane	1.33	50	112728	18.926	ug/l	99
4) Vinyl Chloride	1.41	62	123928	19.922	ug/l	99
5) Bromomethane	1.64	94	126776	20.716	ug/l	100
6) Chloroethane	1.71	64	79945	18.560	ug/l	94
7) Trichlorofluoromethane	1.93	101	191167	19.711	ug/l	100
8) Diethyl Ether	2.19	74	74078	19.230	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	109266	19.188	ug/l	98
10) Methyl Iodide	2.51	142	164944	20.235	ug/l	98
11) Tert butyl alcohol	3.07	59	154974	106.617	ug/l	98
12) 1,1-Dichloroethene	2.37	96	103408	19.151	ug/l	96
13) Acrolein	2.30	56	90141	91.926	ug/l	98
14) Allyl chloride	2.73	41	170904	18.804	ug/l	97
15) Acrylonitrile	3.15	53	330554	102.422	ug/l	99
16) Acetone	2.45	43	272806	91.168	ug/l	96
17) Carbon Disulfide	2.57	76	252121	17.644	ug/l	99
18) Methyl Acetate	2.78	43	181616	20.641	ug/l	94
19) Methyl tert-butyl Ether	3.20	73	368023	20.536	ug/l	98
20) Methylene Chloride	2.86	84	122784	19.843	ug/l	92
21) trans-1,2-Dichloroethene	3.17	96	113473	18.967	ug/l	92
22) Diisopropyl ether	3.87	45	328139	19.735	ug/l	98
23) Vinyl Acetate	3.82	43	1311254	96.413	ug/l	99
24) 1,1-Dichloroethane	3.70	63	190680	19.211	ug/l	98
25) 2-Butanone	4.70	43	410893	97.620	ug/l	97
26) 2,2-Dichloropropane	4.59	77	116197	15.155	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	129002	19.544	ug/l	96
28) Bromochloromethane	5.02	49	91314	20.740	ug/l	96
29) Tetrahydrofuran	5.15	42	280687	101.248	ug/l	99
30) Chloroform	5.21	83	200275	19.485	ug/l	98
31) Cyclohexane	5.57	56	172066	19.082	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	165923	19.118	ug/l	97
36) 1,1-Dichloropropene	5.79	75	147986	18.677	ug/l	99
37) Ethyl Acetate	4.85	43	158194	19.182	ug/l	98
38) Carbon Tetrachloride	5.78	117	139093	18.063	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006613.D
 Acq On : 18 Dec 2018 22:58
 Operator : JC/MD
 Sample : VX1218WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 11:22:54 AM

Quant Time: Dec 19 07:12:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	189800	18.195	ug/l	100
40) Benzene	6.14	78	462049	19.184	ug/l	98
41) Methacrylonitrile	5.06	41	88821	19.166	ug/l	99
42) 1,2-Dichloroethane	6.20	62	155711	18.973	ug/l	100
43) Isopropyl Acetate	6.46	43	243360	19.394	ug/l	99
44) Trichloroethene	7.21	130	135122	18.536	ug/l	89
45) 1,2-Dichloropropane	7.52	63	113557	19.375	ug/l	97
46) Dibromomethane	7.66	93	81360	18.872	ug/l	96
47) Bromodichloromethane	7.90	83	130815	18.277	ug/l	99
48) Methyl methacrylate	7.77	41	125301	19.636	ug/l	98
49) 1,4-Dioxane	7.75	88	68568	398.736	ug/l	96
51) 4-Methyl-2-Pentanone	8.65	43	805672	100.910	ug/l	99
52) Toluene	8.78	92	299616	19.256	ug/l	98
53) t-1,3-Dichloropropene	9.04	75	131291	17.103	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	153184	18.187	ug/l	96
55) 1,1,2-Trichloroethane	9.21	97	124895	19.610	ug/l	99
56) Ethyl methacrylate	9.18	69	172159	19.125	ug/l	99
57) 1,3-Dichloropropane	9.37	76	196291	19.156	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.31	63	481141	100.552	ug/l	100
59) 2-Hexanone	9.49	43	595312	97.453	ug/l	99
60) Dibromochloromethane	9.58	129	106553	17.577	ug/l	98
61) 1,2-Dibromoethane	9.67	107	131543	19.429	ug/l	98
64) Tetrachloroethene	9.34	164	133649	19.175	ug/l	98
65) Chlorobenzene	10.14	112	353142	18.964	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	109274	18.808	ug/l	100
67) Ethyl Benzene	10.25	91	572491	18.814	ug/l	99
68) m/p-Xylenes	10.36	106	459717	38.287	ug/l	100
69) o-Xylene	10.70	106	228123	19.240	ug/l	99
70) Styrene	10.71	104	360117	19.198	ug/l	99
71) Bromoform	10.86	173	75910	17.653	ug/l #	98
73) Isopropylbenzene	11.02	105	593664	19.701	ug/l	99
74) N-amyl acetate	10.90	43	209583	19.430	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.27	83	177119	19.763	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	164878m	21.357	ug/l	
77) Bromobenzene	11.26	156	157468	19.328	ug/l	97
78) n-propylbenzene	11.36	91	646071	19.469	ug/l	99
79) 2-Chlorotoluene	11.42	91	390287	19.408	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	491263	19.793	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	34743	16.055	ug/l #	70
82) 4-Chlorotoluene	11.51	91	449819	19.500	ug/l	99
83) tert-Butylbenzene	11.77	119	479734	19.312	ug/l	94
84) 1,2,4-Trimethylbenzene	11.80	105	508331	19.471	ug/l	98
85) sec-Butylbenzene	11.94	105	592458	19.452	ug/l	99
86) p-Isopropyltoluene	12.06	119	526706	19.673	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	282567	19.245	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	278811	18.501	ug/l	97
89) n-Butylbenzene	12.39	91	429891	18.867	ug/l	99
90) Hexachloroethane	12.60	117	66798	18.185	ug/l	91
91) 1,2-Dichlorobenzene	12.39	146	280896	19.124	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.00	75	33101	17.850	ug/l	94

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121818\
Data File : VX006613.D
Acq On : 18 Dec 2018 22:58
Operator : JC/MD
Sample : VX1218WBSD02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM

Quant Time: Dec 19 07:12:47 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:23:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	186763	18.434	ug/l	98
94) Hexachlorobutadiene	13.79	225	81557	17.078	ug/l	97
95) Naphthalene	13.83	128	614886	19.015	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	196089	18.745	ug/l	97

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

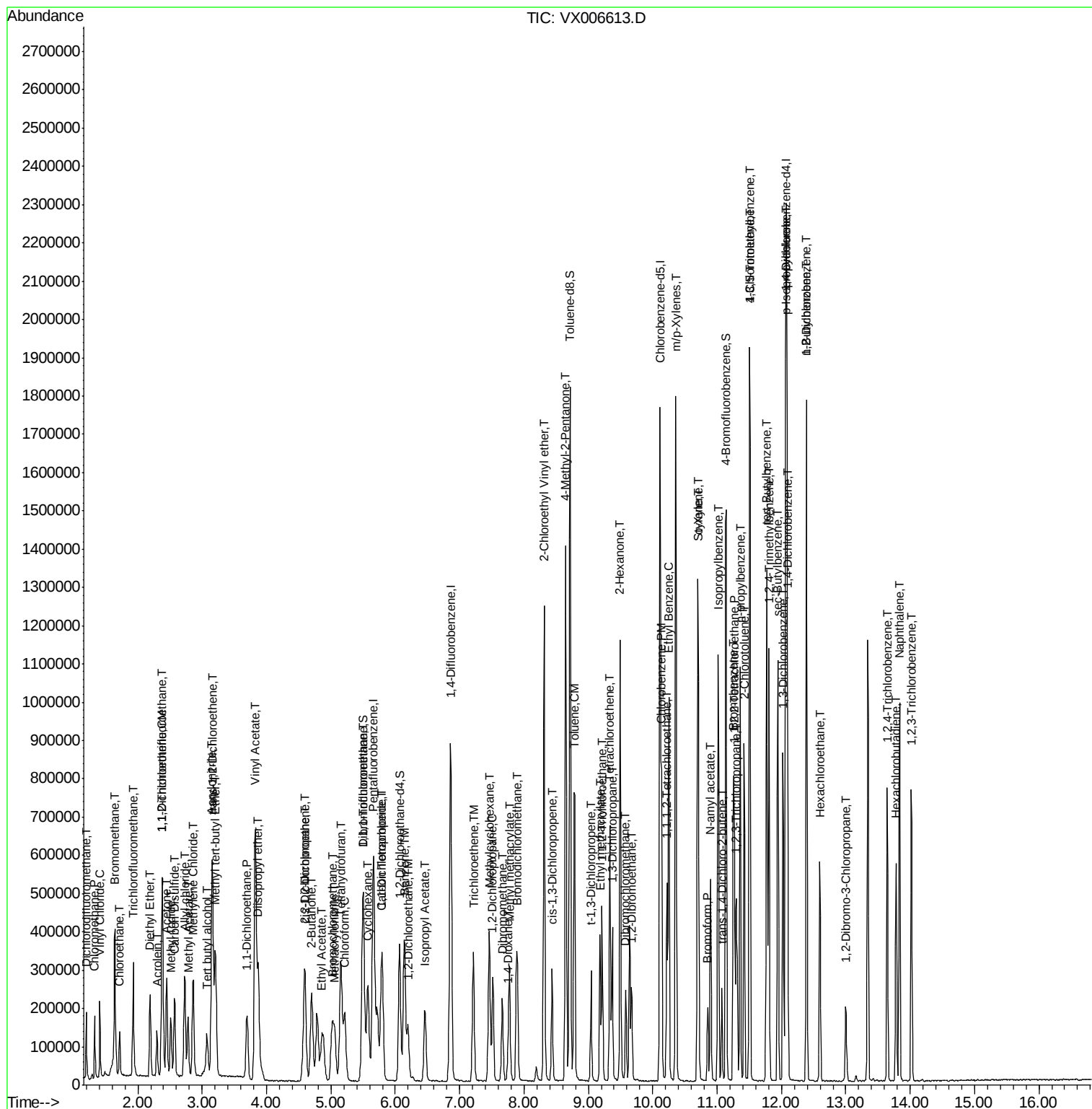
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121818\
Data File : VX006613.D
Acq On : 18 Dec 2018 22:58
Operator : JC/MD
Sample : VX1218WBSD02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

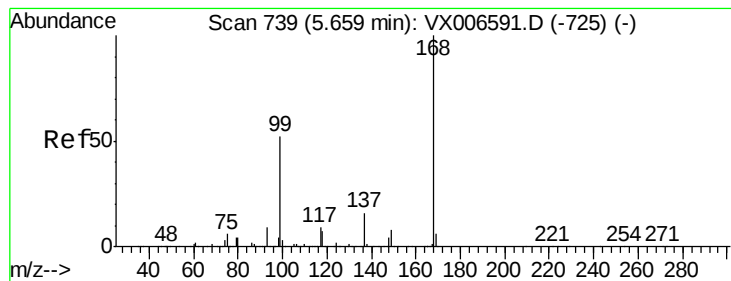
Instrument :
MSVOA_X
Client Sampled :
VX1218WBSD02

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM

Quant Time: Dec 19 07:12:47 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:23:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion:168 Resp: 604327

Ion Ratio Lower Upper

168 100

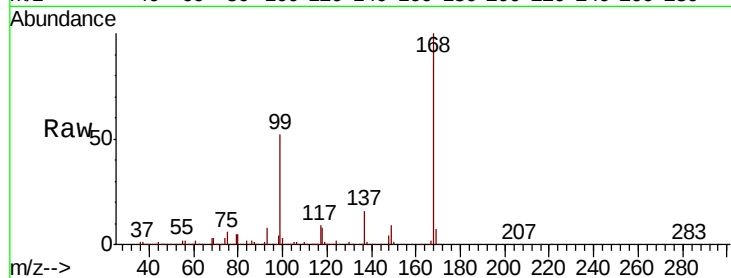
99 52.2 37.8 56.8

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

150000

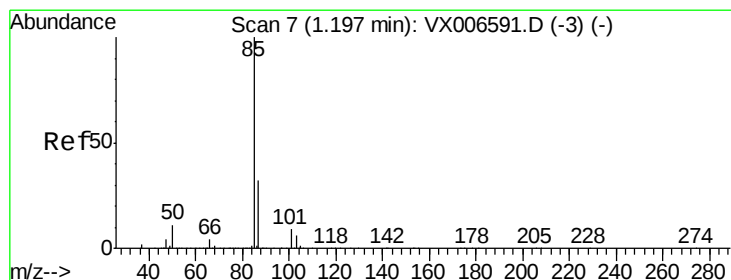
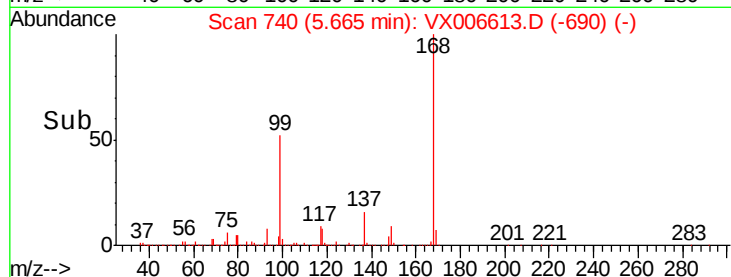
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.174 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX006613.D

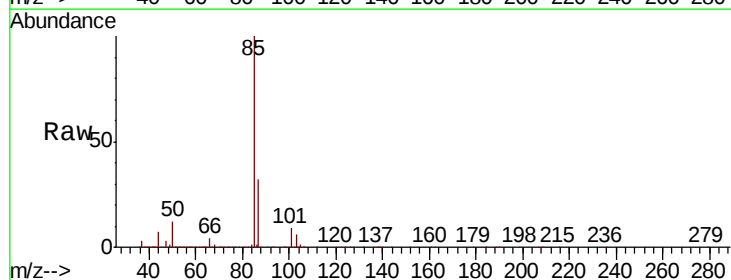
Acq: 18 Dec 2018 22:58

Tgt Ion: 85 Resp: 106005

Ion Ratio Lower Upper

85 100

87 32.2 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100000

80000

60000

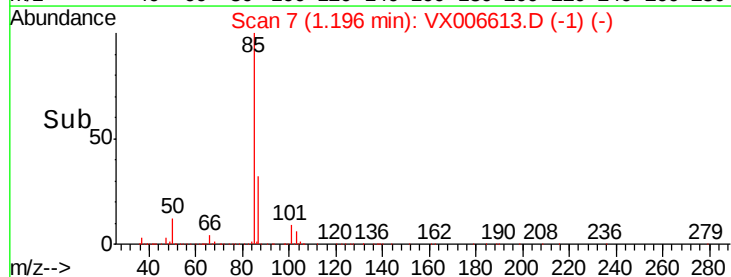
40000

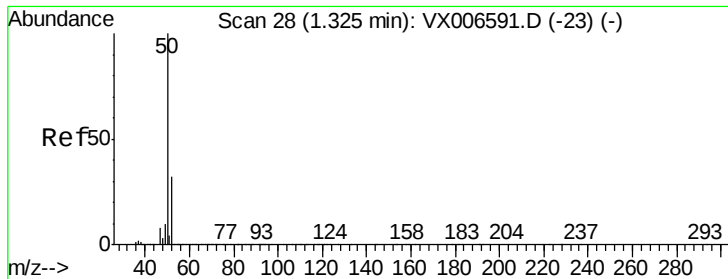
20000

0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 18.926 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 50 Resp: 112728

Ion Ratio Lower Upper

50 100

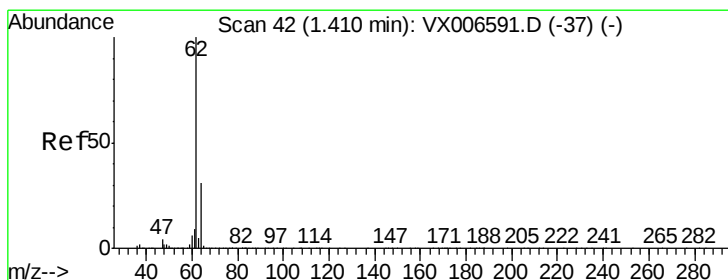
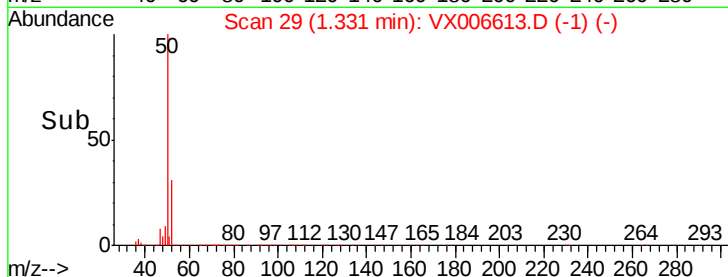
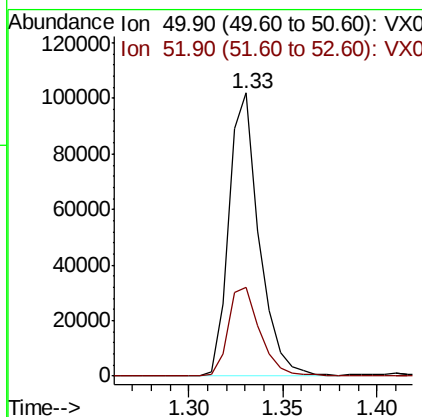
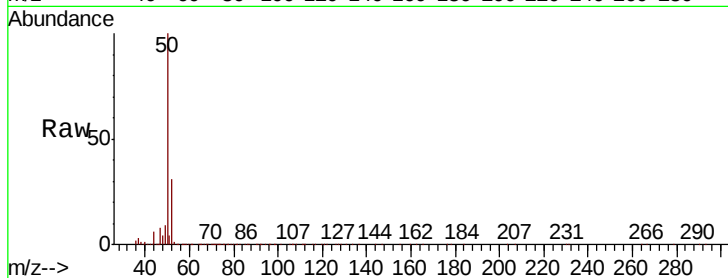
52 31.0 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#4

Vinyl Chloride

Concen: 19.922 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006613.D

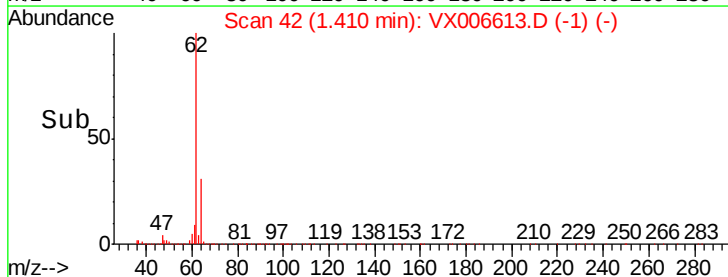
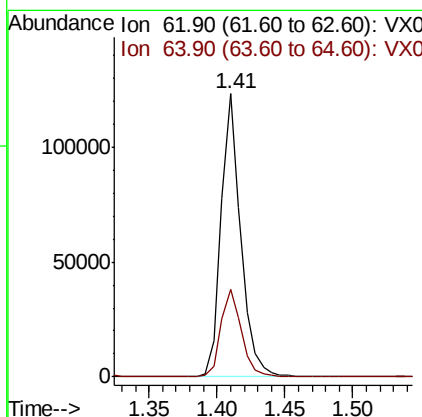
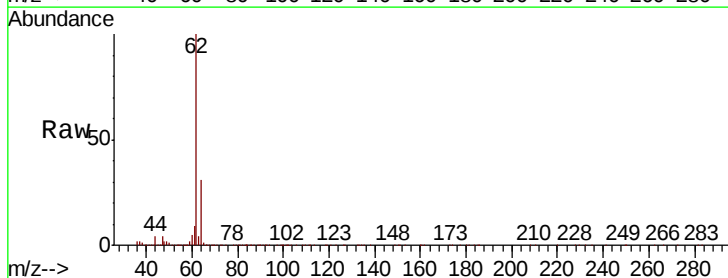
Acq: 18 Dec 2018 22:58

Tgt Ion: 62 Resp: 123928

Ion Ratio Lower Upper

62 100

64 30.6 24.9 37.3





#5

Bromomethane

Concen: 20.716 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 94 Resp: 126776

Ion Ratio Lower Upper

94 100

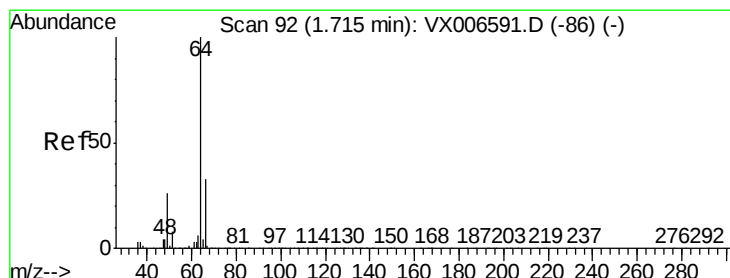
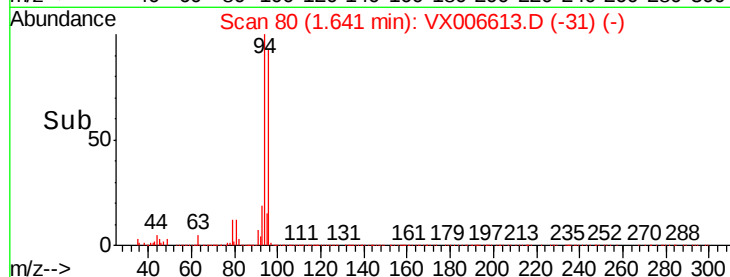
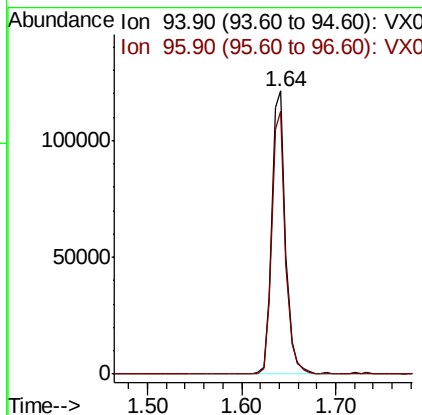
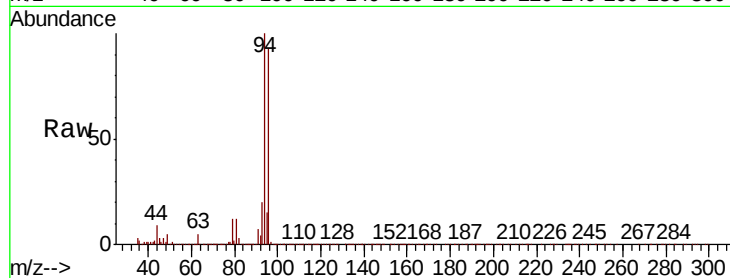
96 92.8 74.5 111.7

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#6

Chloroethane

Concen: 18.560 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX006613.D

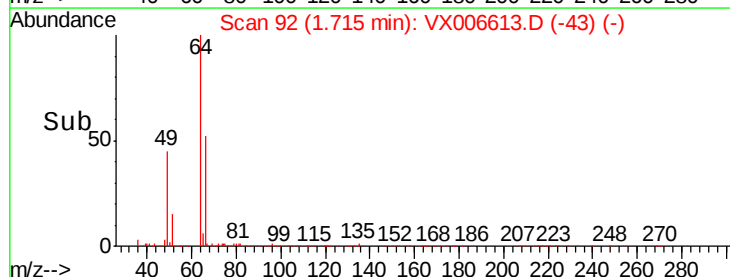
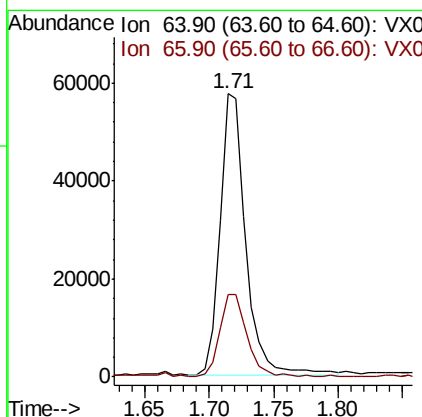
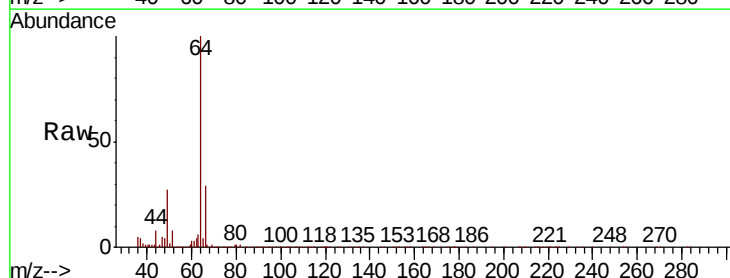
Acq: 18 Dec 2018 22:58

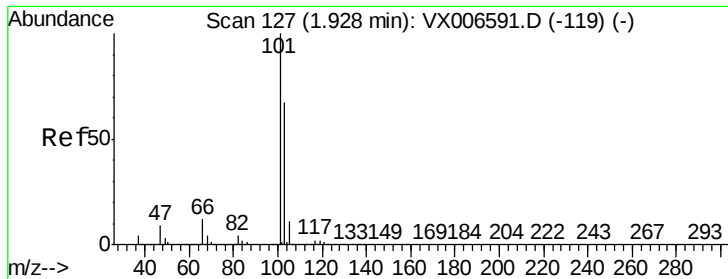
Tgt Ion: 64 Resp: 79945

Ion Ratio Lower Upper

64 100

66 29.1 25.9 38.9





#7

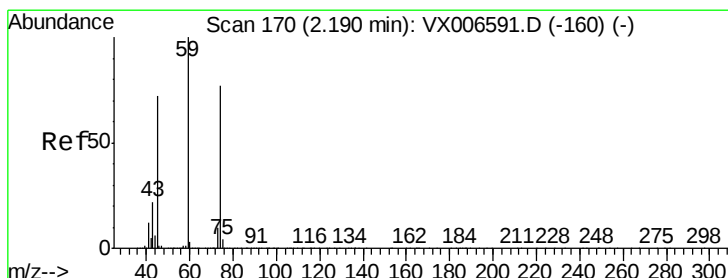
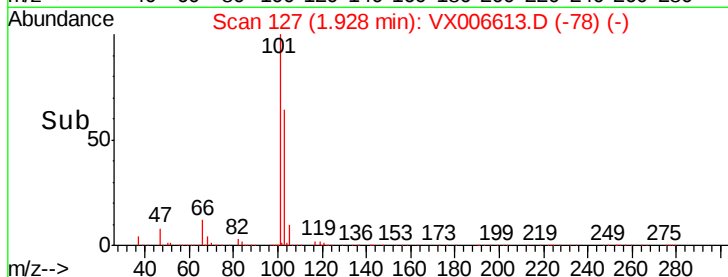
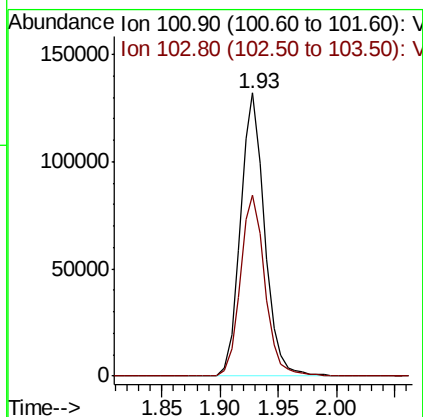
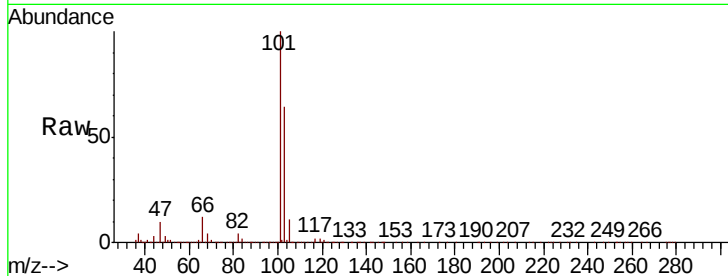
Trichlorofluoromethane
Concen: 19.711 ug/l
RT: 1.93 min Scan# 127
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.0	76.4

Manual Integrations
APPROVED

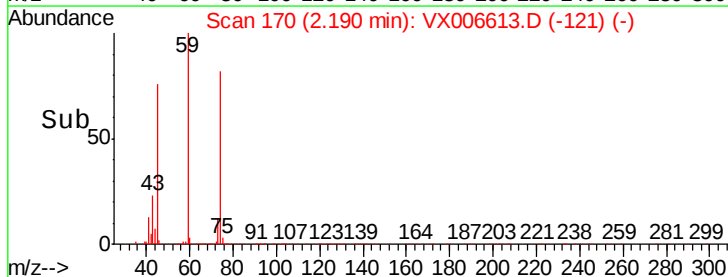
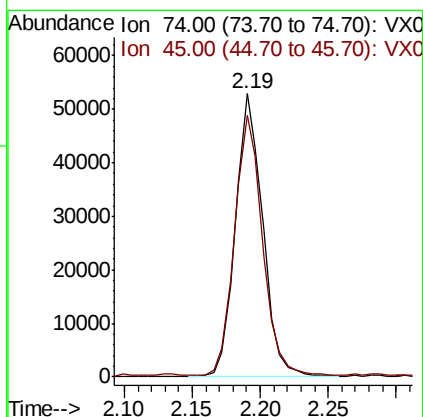
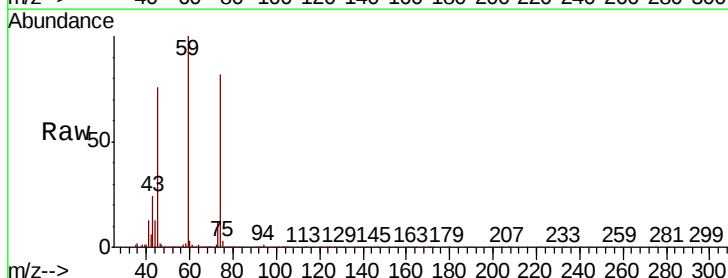
MMDadoda
12/19/2018 11:22:54 AM

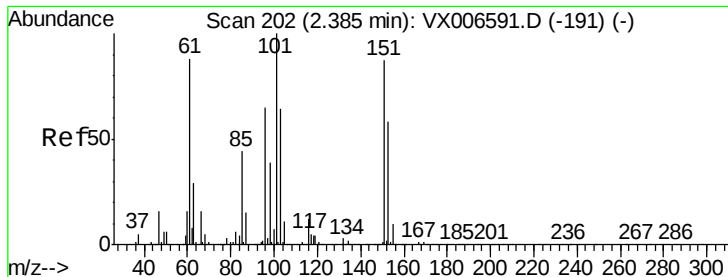


#8

Diethyl Ether
Concen: 19.230 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.7	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.188 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

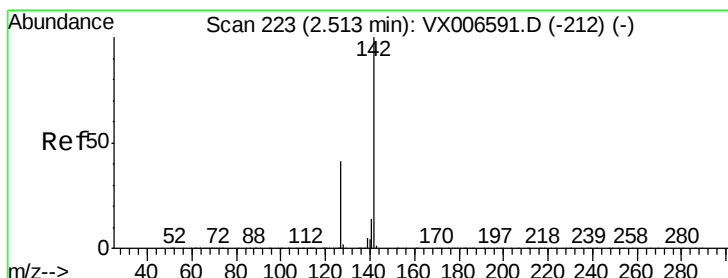
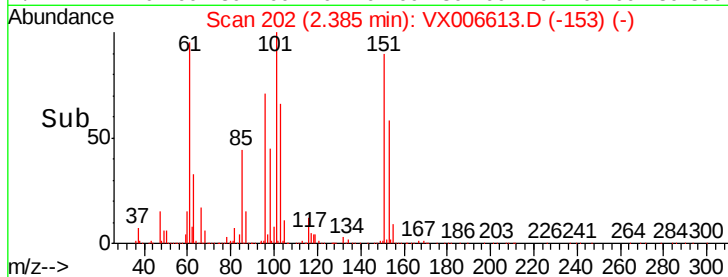
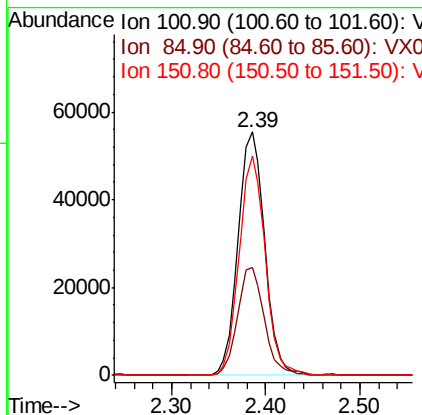
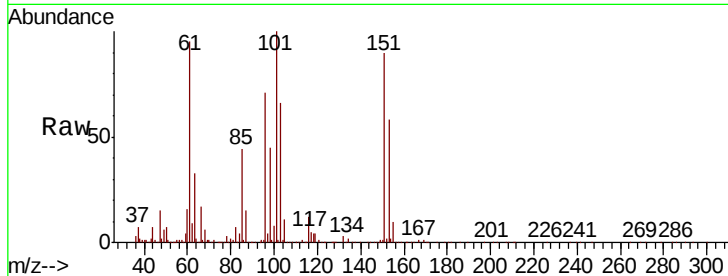
ClientSampleId :

VX1218WBSD02

Tot Ion:	101	Resp:	109266
Ion Ratio	Lower	Upper	
101	100		
85	44.5	35.5	53.3
151	88.6	68.6	103.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#10

Methyl Iodide

Concen: 20.235 ug/l

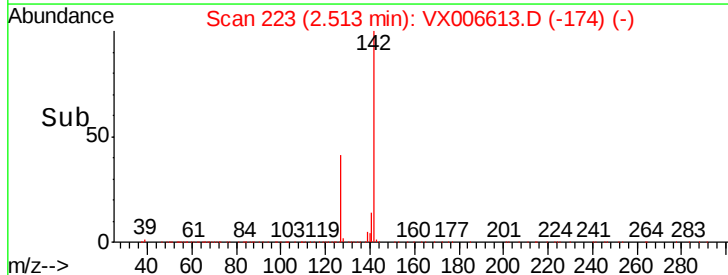
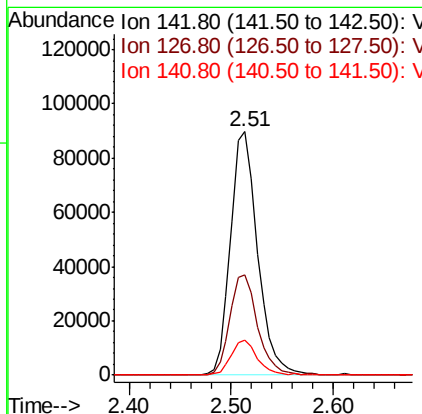
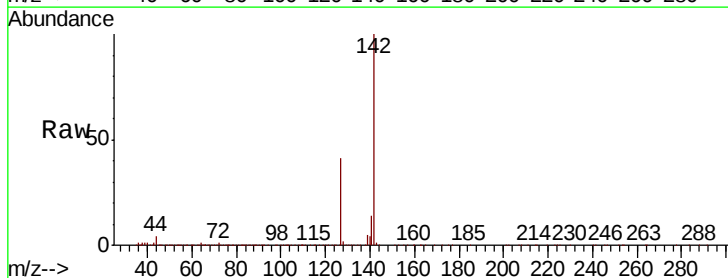
RT: 2.51 min Scan# 223

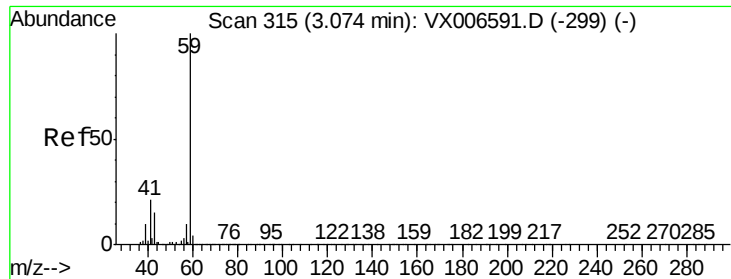
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	142	Resp:	164944
Ion Ratio	Lower	Upper	
142	100		
127	42.3	34.8	52.2
141	14.0	11.4	17.2





#11

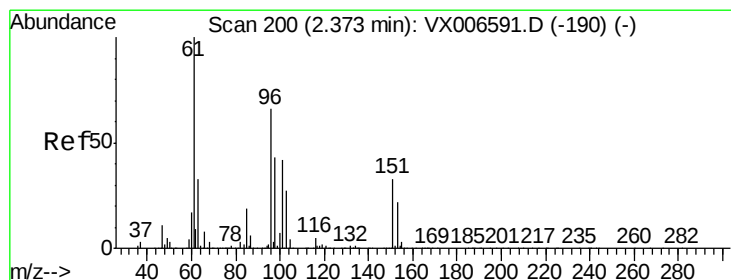
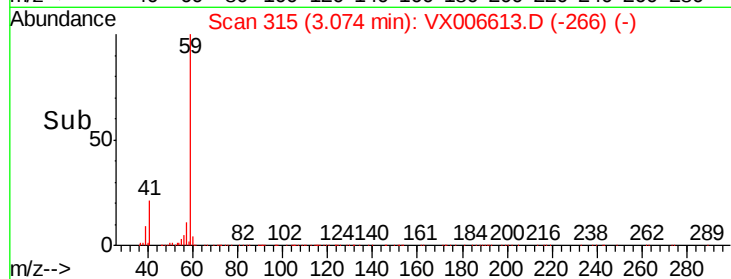
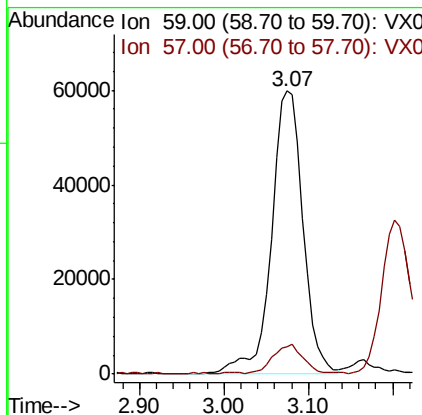
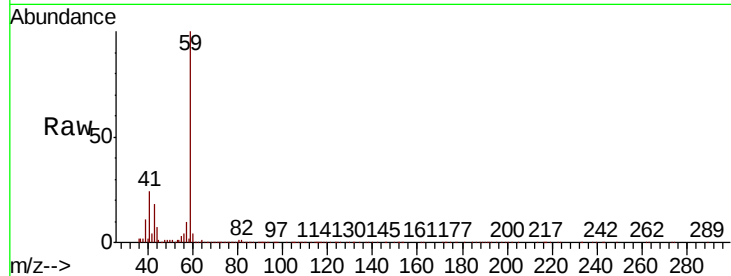
Tert butyl alcohol
Concen: 106.617 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	154974		
57	57	9.4		8.2	12.2

Manual Integrations
APPROVED

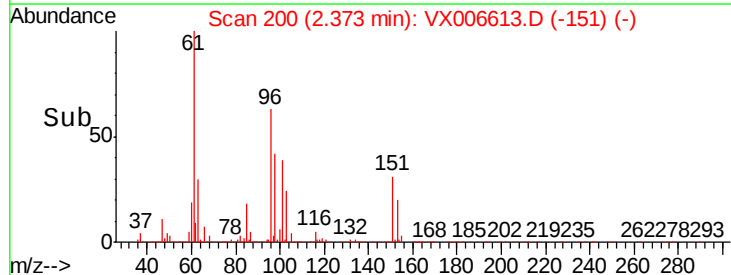
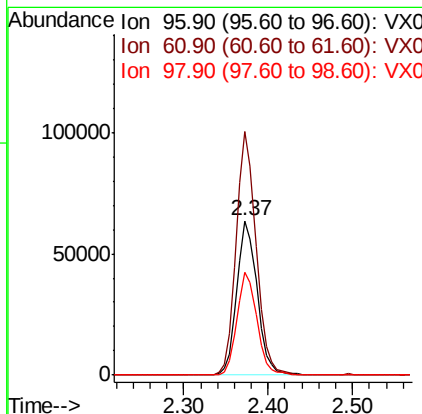
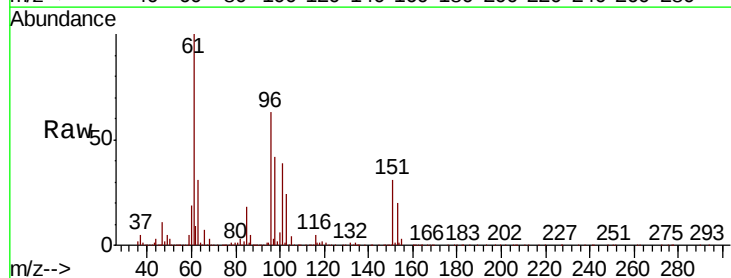
MMDadoda
12/19/2018 11:22:54 AM

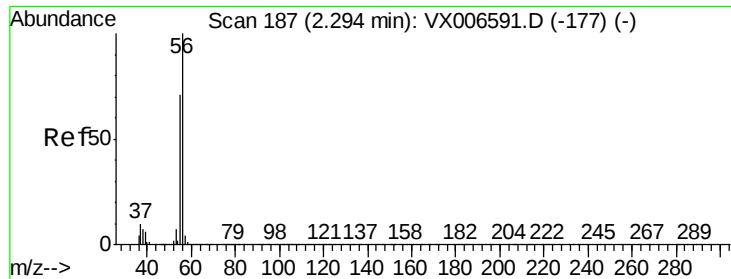


#12

1,1-Dichloroethene
Concen: 19.151 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	103408		
61	61	157.9		131.7	197.5
98	98	66.2		51.8	77.6





#13

Acrolein

Concen: 91.926 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 56 Resp: 90141

Ion Ratio Lower Upper

56 100

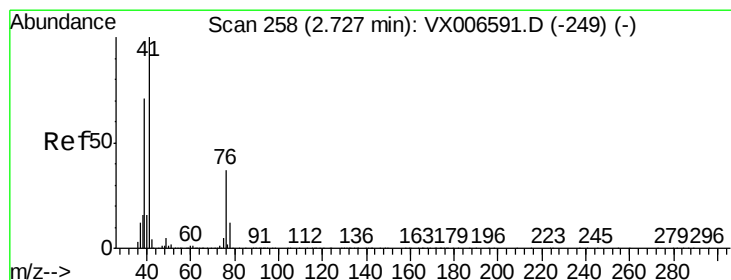
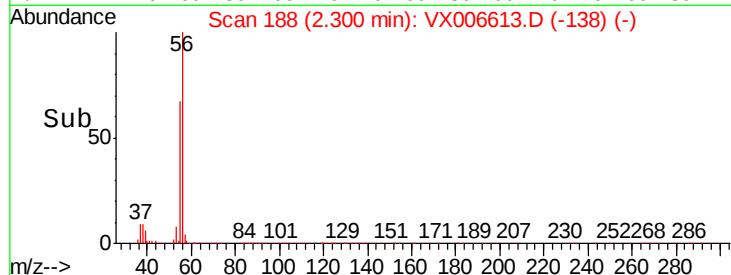
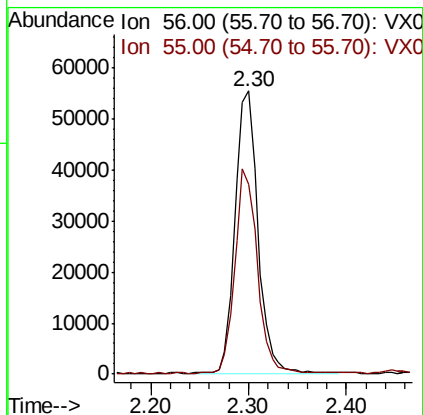
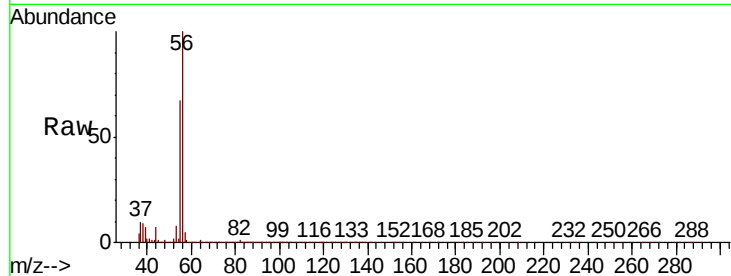
55 70.5 57.8 86.6

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#14

Allyl chloride

Concen: 18.804 ug/l

RT: 2.73 min Scan# 258

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

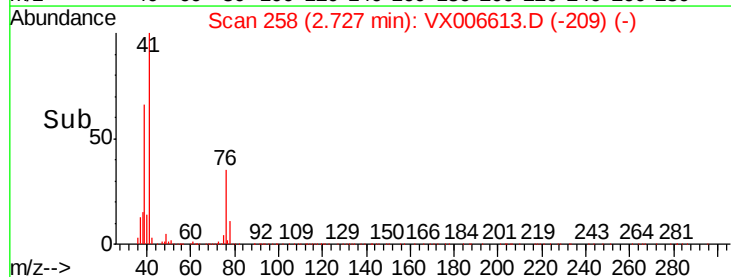
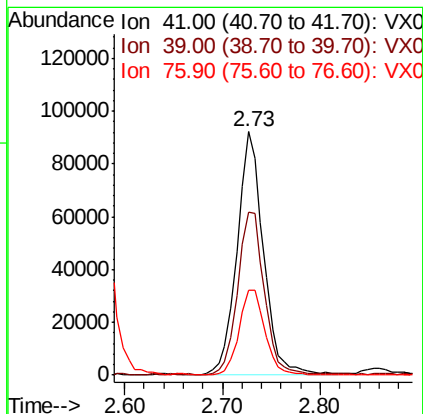
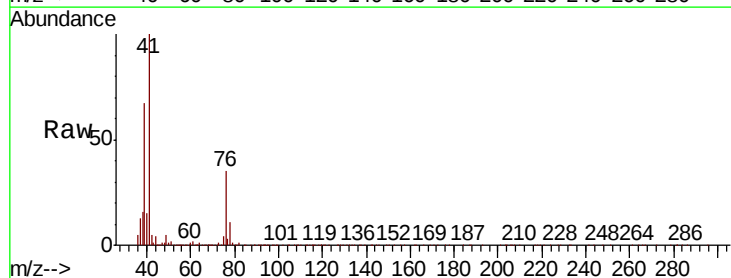
Tgt Ion: 41 Resp: 170904

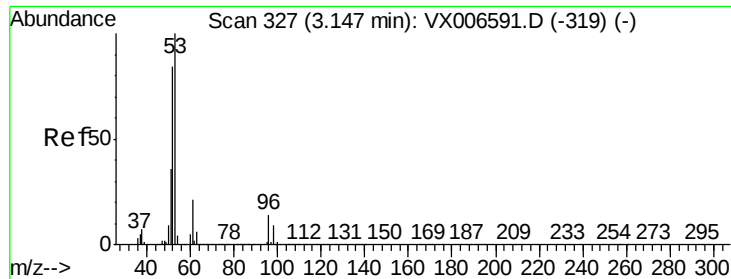
Ion Ratio Lower Upper

41 100

39 67.2 52.4 78.6

76 34.6 25.4 38.0





#15

Acrylonitrile

Concen: 102.422 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

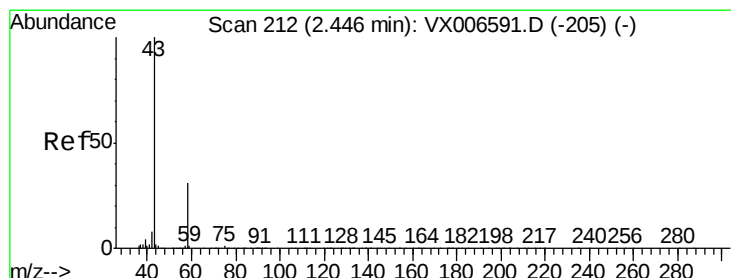
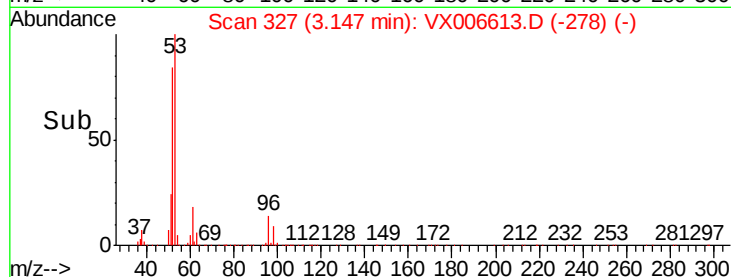
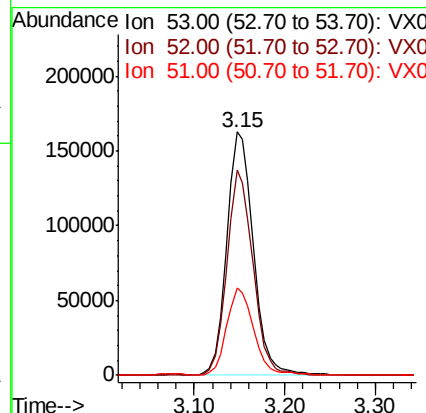
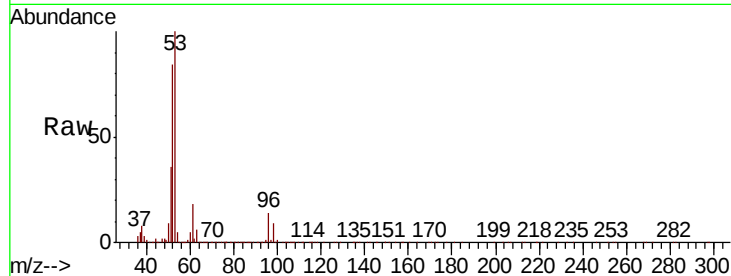
ClientSampleId :

VX1218WBSD02

Tot Ion:	53	Resp:	330554
Ion Ratio		Lower	Upper
53	100		
52	82.0	66.2	99.4
51	36.5	28.7	43.1

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#16

Acetone

Concen: 91.168 ug/l

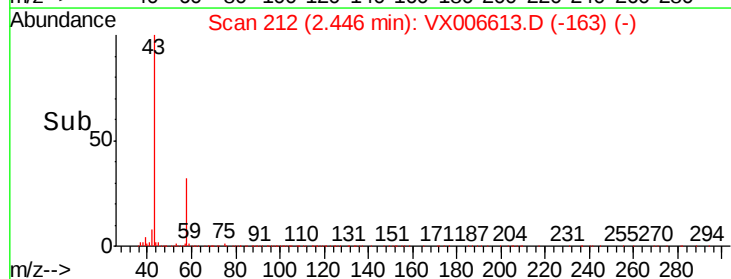
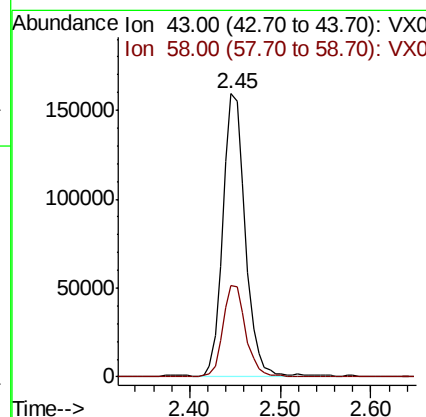
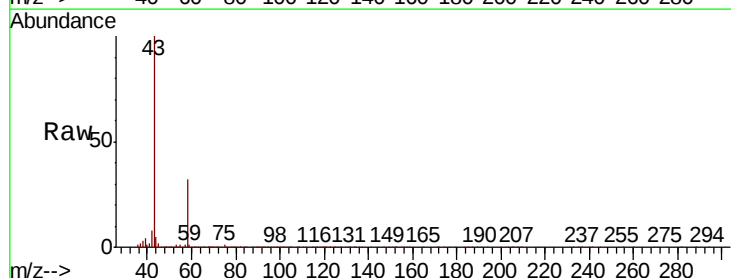
RT: 2.45 min Scan# 212

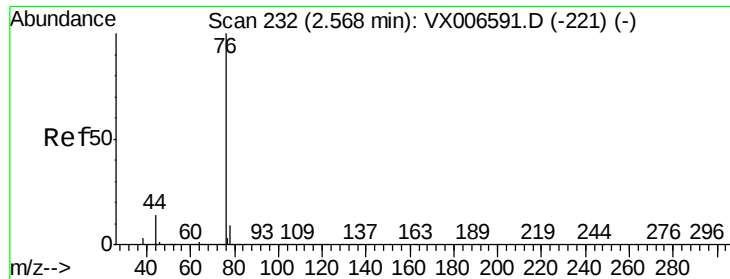
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	43	Resp:	272806
Ion Ratio		Lower	Upper
43	100		
58	32.3	24.0	36.0





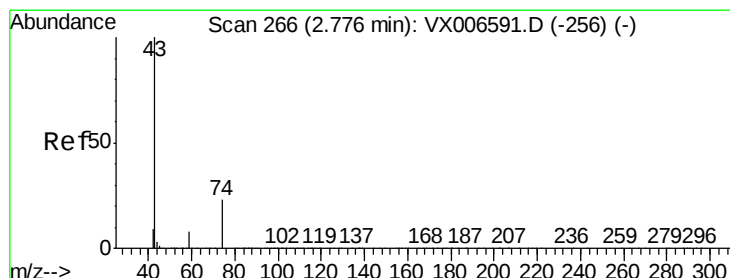
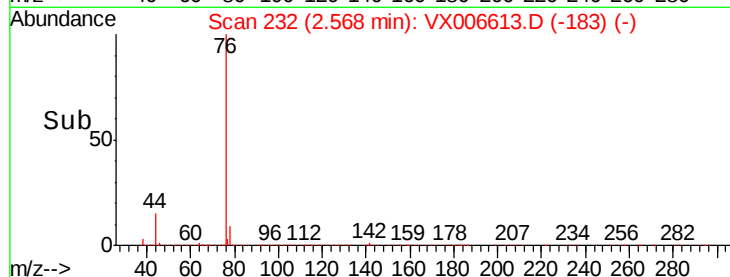
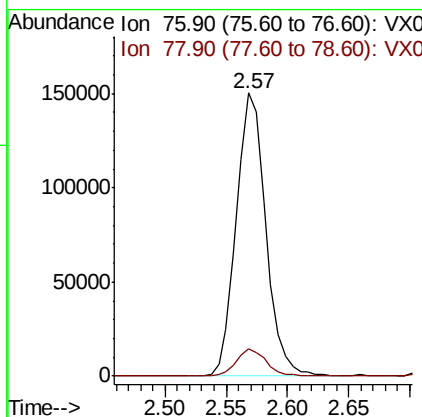
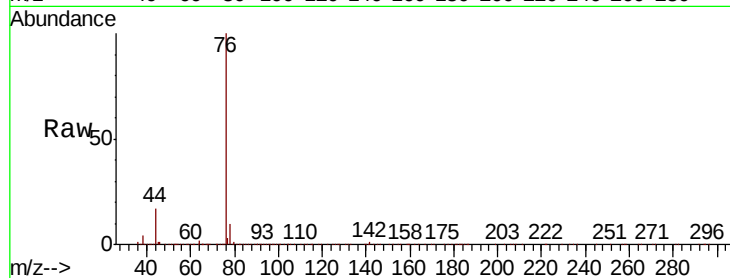
#17
Carbon Disulfide
Concen: 17.644 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.1	10.7

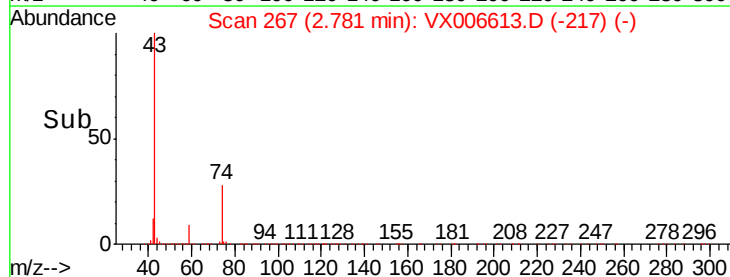
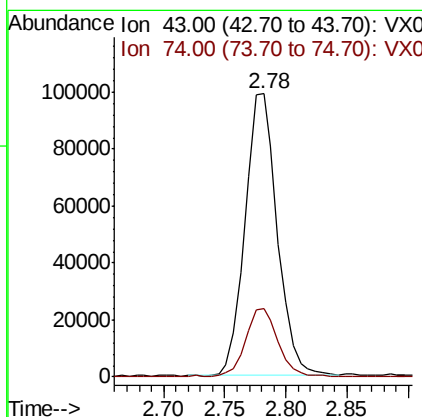
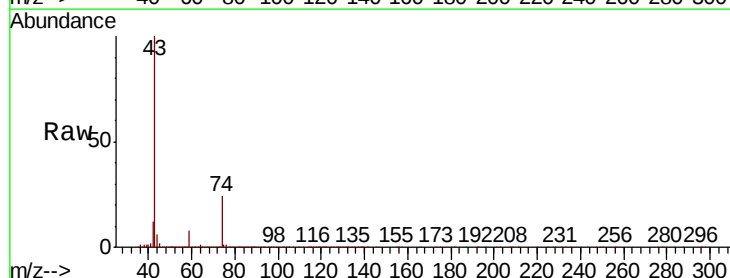
Manual Integrations
APPROVED

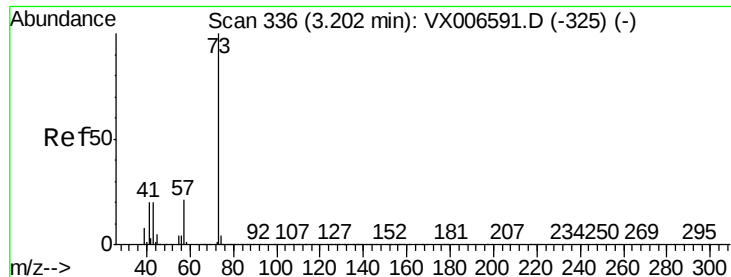
MMDadoda
12/19/2018 11:22:54 AM



#18
Methyl Acetate
Concen: 20.641 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.2	17.9	26.9





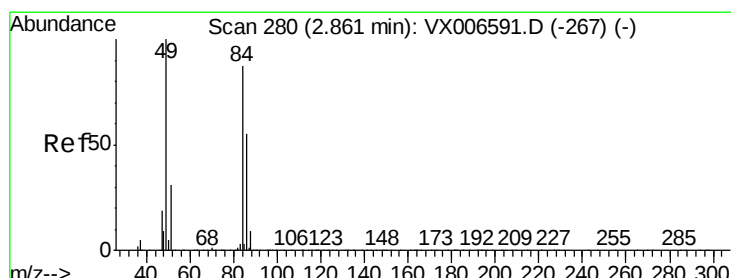
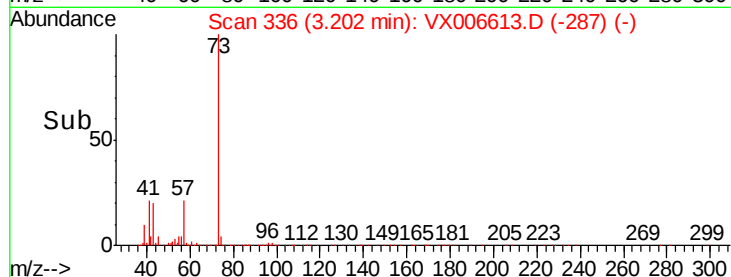
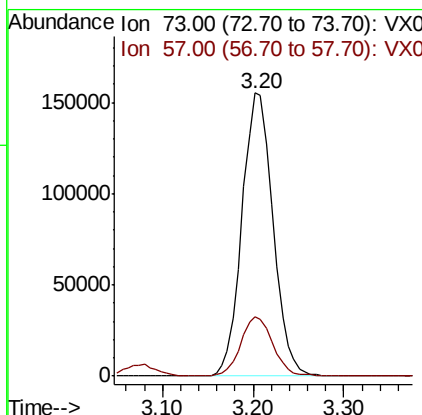
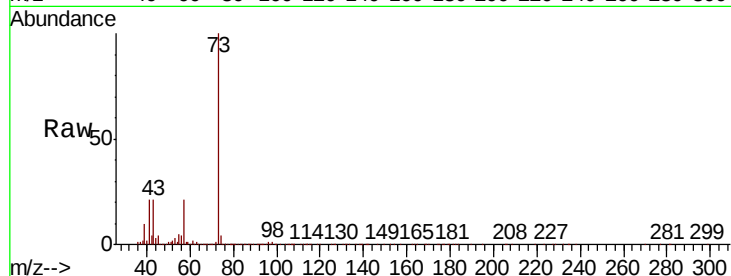
#19
Methvl tert-butvl Ether
Concen: 20.536 ug/l
RT: 3.20 min Scan# 336
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.9	17.5	26.3

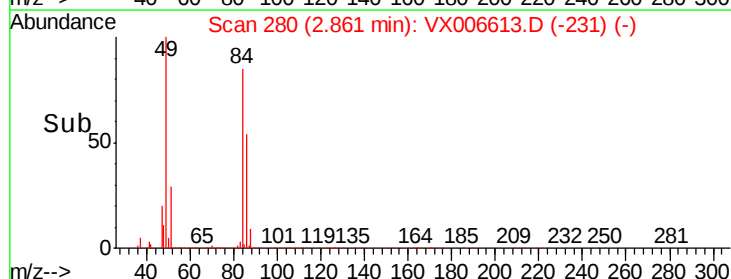
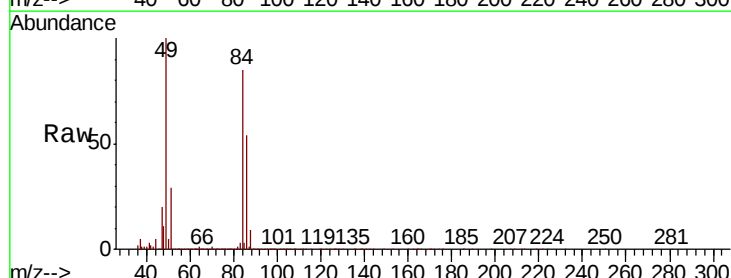
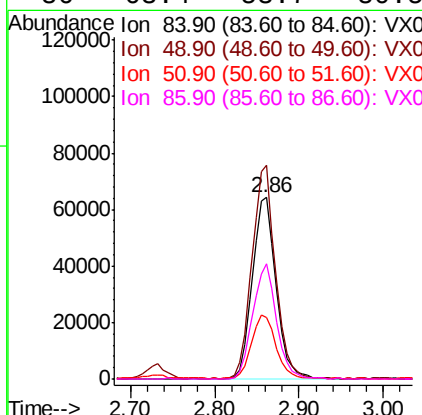
Manual Integrations
APPROVED

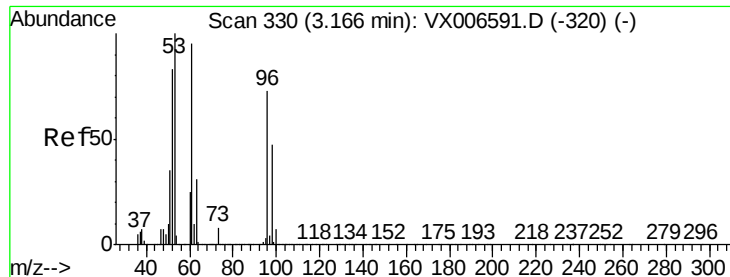
MMDadoda
12/19/2018 11:22:54 AM



#20
Methylene Chloride
Concen: 19.843 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.5	102.2	153.4
51	33.7	31.1	46.7
86	63.4	53.7	80.5





#21

trans-1,2-Dichloroethene

Concen: 18.967 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

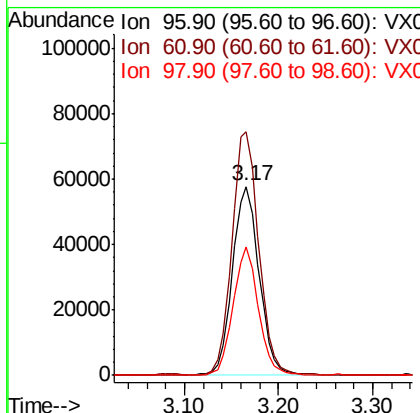
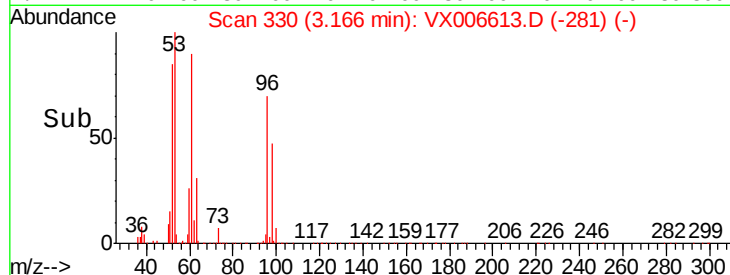
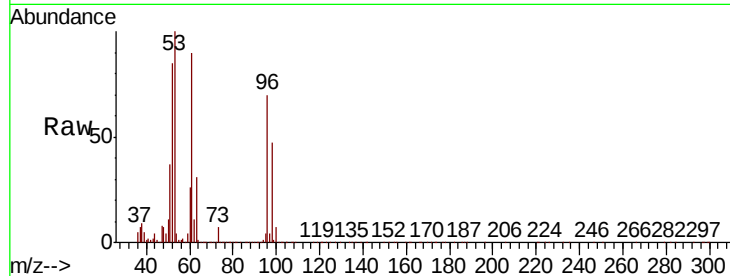
ClientSampleId :

VX1218WBSD02

Tot Ion:	96	Resp:	113473
Ion	Ratio	Lower	Upper
96	100		
61	128.8	113.3	169.9
98	67.5	53.2	79.8

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#22

Diisopropyl ether

Concen: 19.735 ug/l

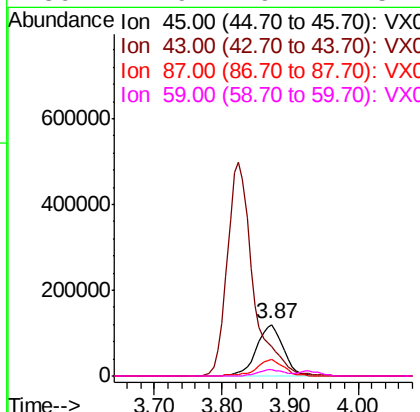
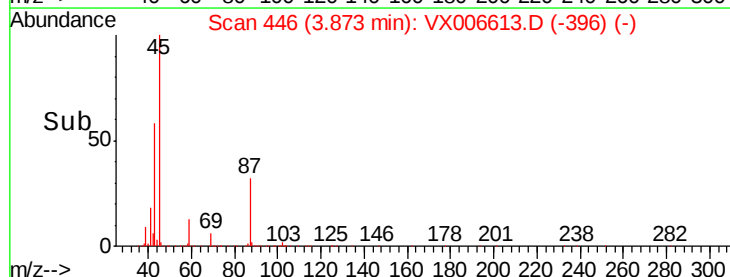
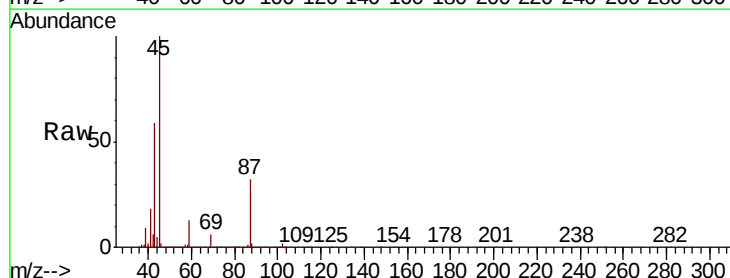
RT: 3.87 min Scan# 446

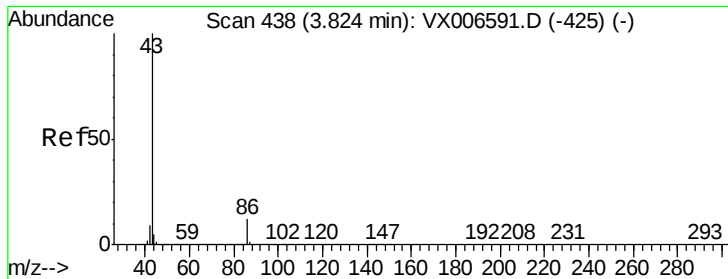
Delta R.T. 0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	45	Resp:	328139
Ion	Ratio	Lower	Upper
45	100		
43	58.4	46.2	69.2
87	32.1	24.9	37.3
59	12.9	9.1	13.7





#23

Vinyl Acetate

Concen: 96.413 ug/l

RT: 3.82 min Scan# 438

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 43 Resp: 1311254

Ion Ratio Lower Upper

43 100

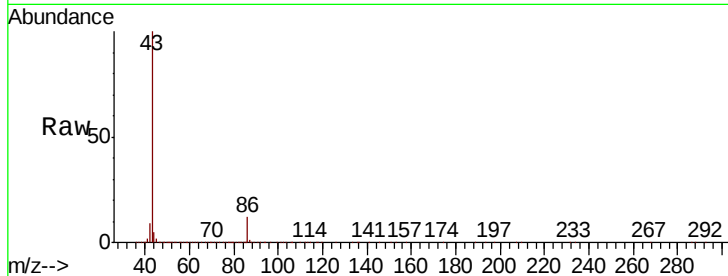
86 11.9 9.4 14.0

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

3.82

500000

400000

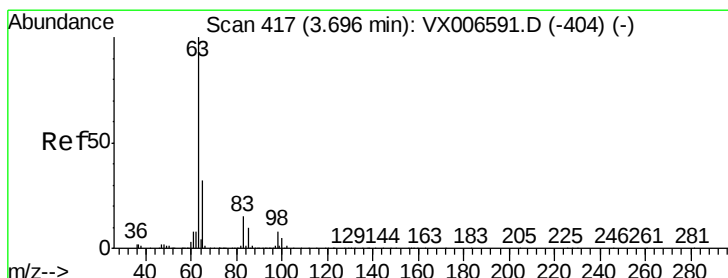
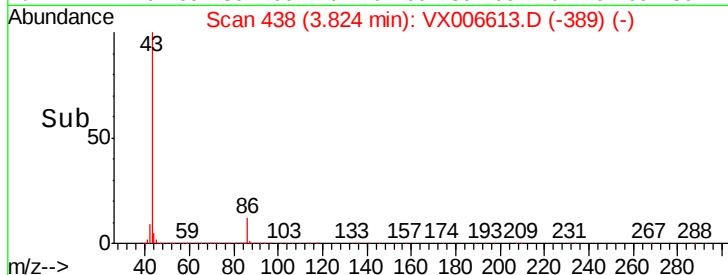
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.211 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

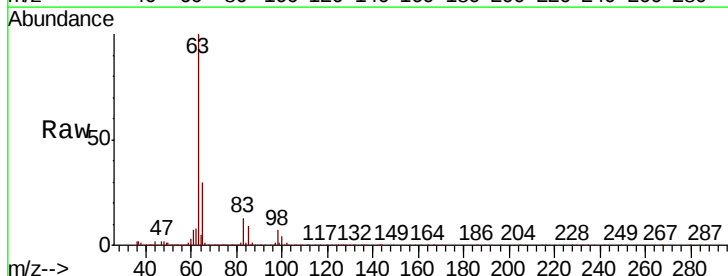
Tgt Ion: 63 Resp: 190680

Ion Ratio Lower Upper

63 100

98 6.7 3.8 11.4

100 4.3 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

3.70

100000

80000

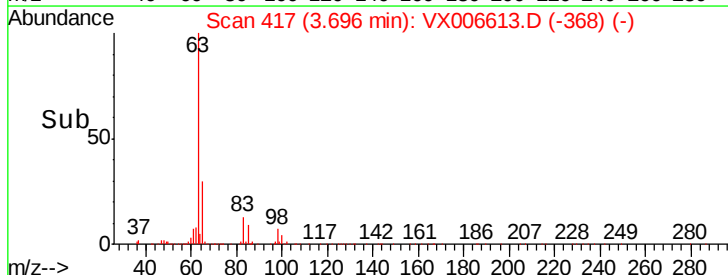
60000

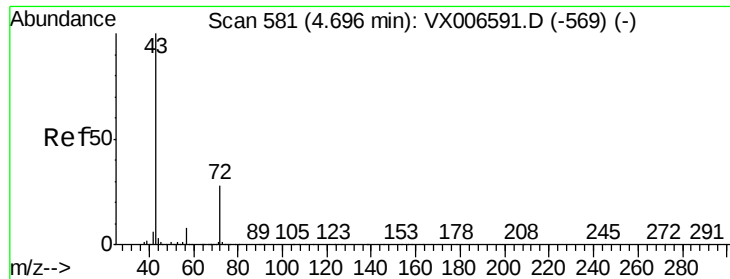
40000

20000

0

Time-->





#25

2-Butanone

Concen: 97.620 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 43 Resp: 410893

Ion Ratio Lower Upper

43 100

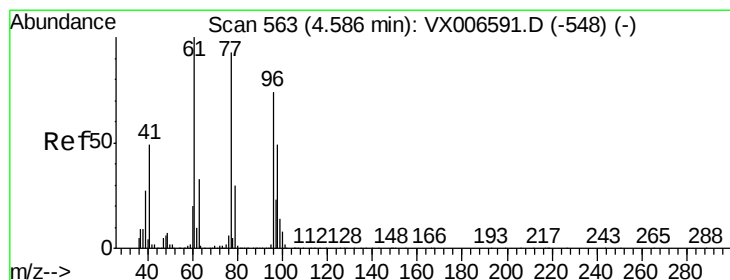
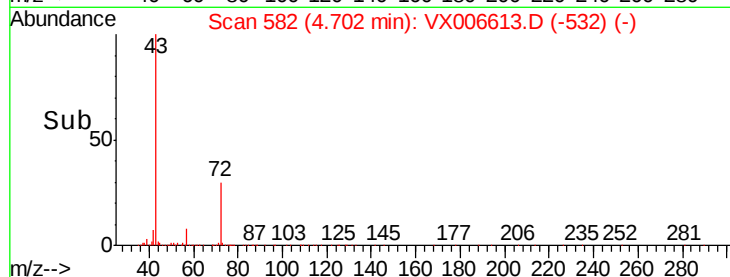
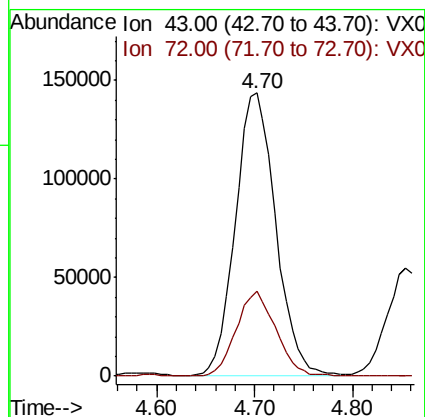
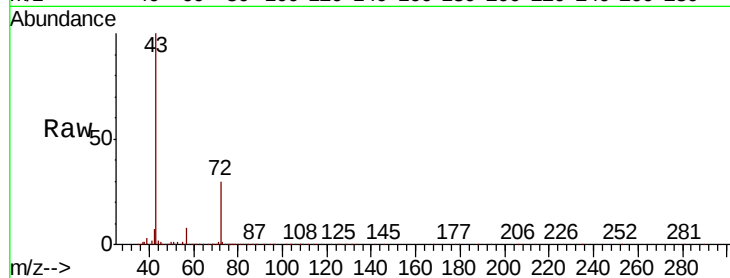
72 30.0 22.6 33.8

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#26

2,2-Dichloropropane

Concen: 15.155 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.00 min

Lab File: VX006613.D

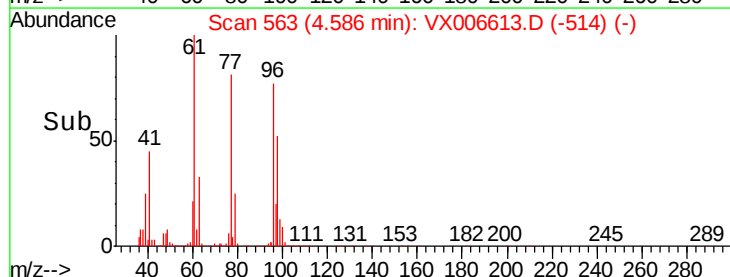
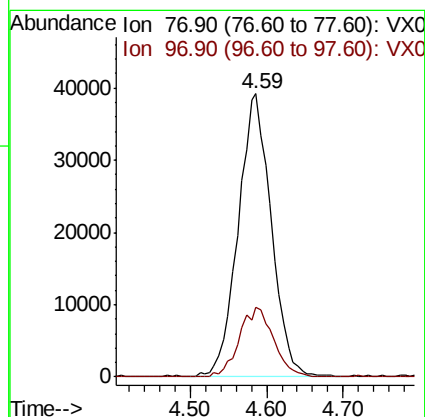
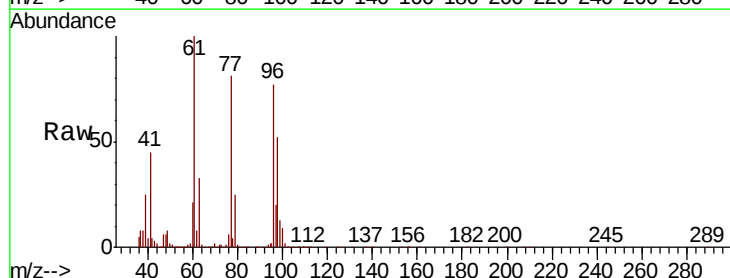
Acq: 18 Dec 2018 22:58

Tgt Ion: 77 Resp: 116197

Ion Ratio Lower Upper

77 100

97 25.8 12.3 36.8





#27

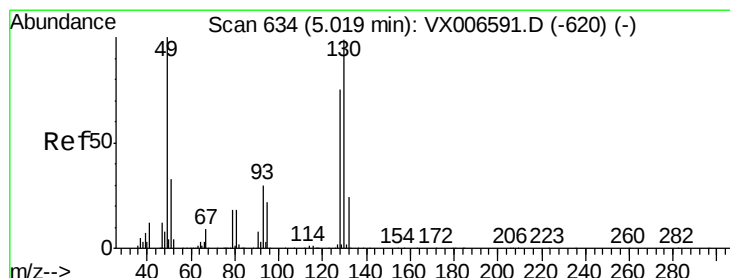
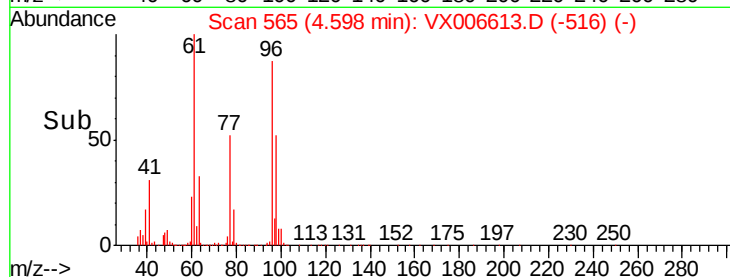
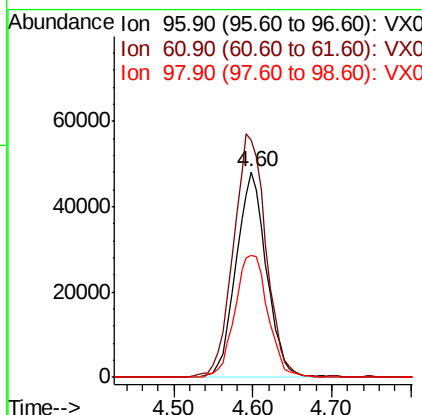
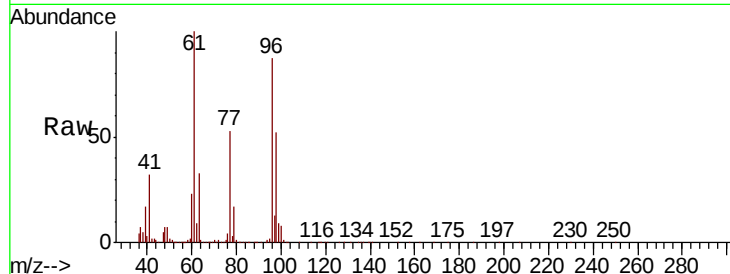
cis-1,2-Dichloroethene
 Concen: 19.544 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	126.5	0.0	265.0
98	64.8	0.0	130.2

Manual Integrations
 APPROVED

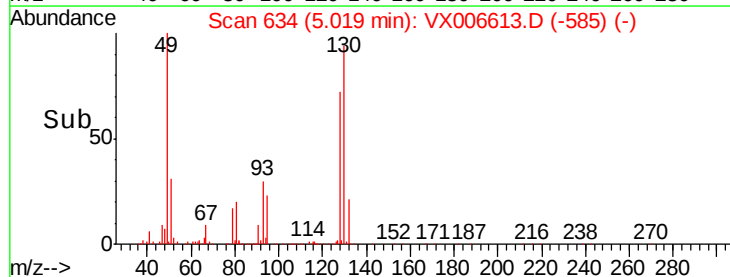
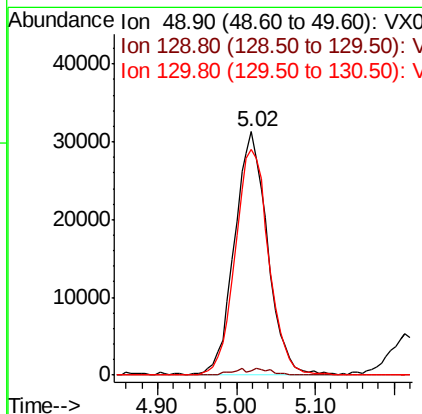
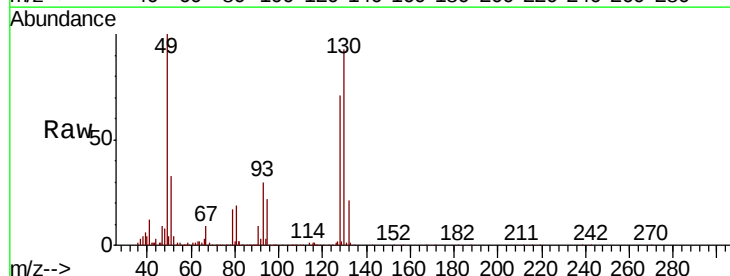
MMDadoda
 12/19/2018 11:22:54 AM

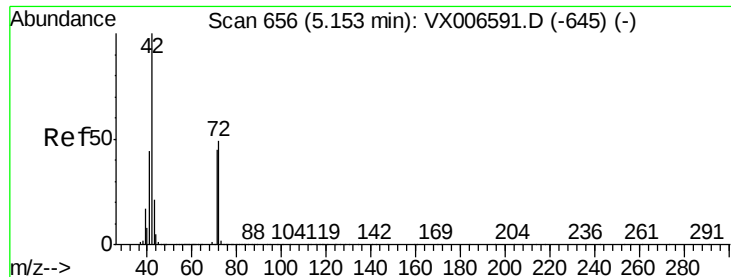


#28

Bromochloromethane
 Concen: 20.740 ug/l
 RT: 5.02 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	5.0
130	94.0	78.3	117.5





#29

Tetrahydrofuran

Concen: 101.248 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

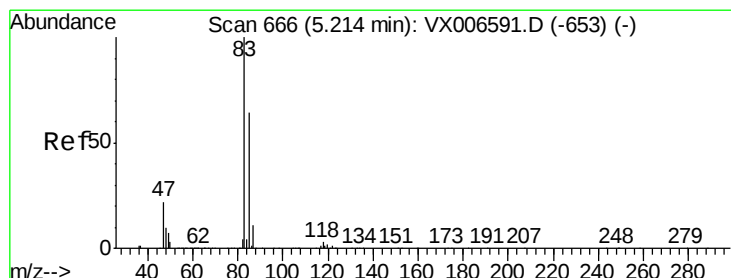
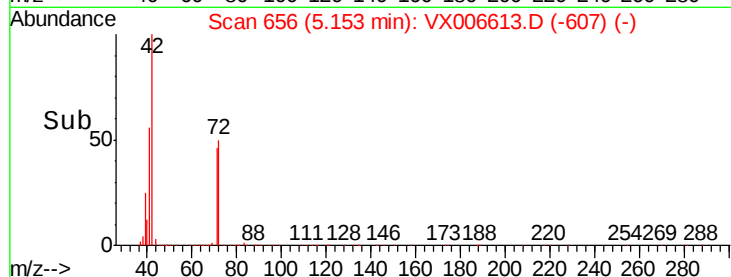
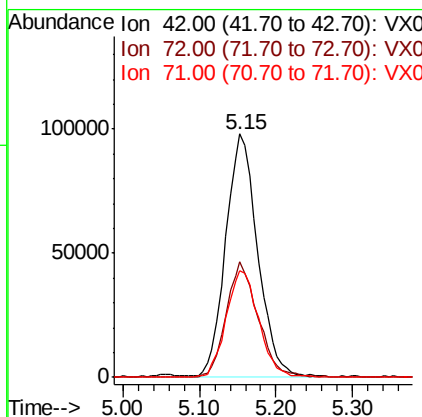
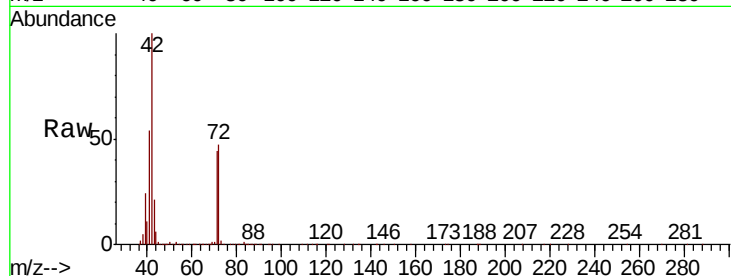
ClientSampleId :

VX1218WBSD02

Tot Ion:	42	Resp:	280687
Ion Ratio		Lower	Upper
42	100		
72	47.8	37.8	56.8
71	45.2	35.2	52.8

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#30

Chloroform

Concen: 19.485 ug/l

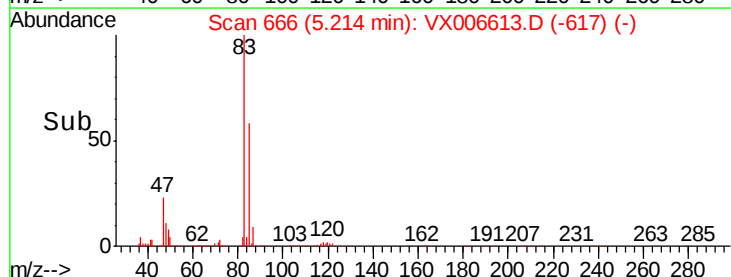
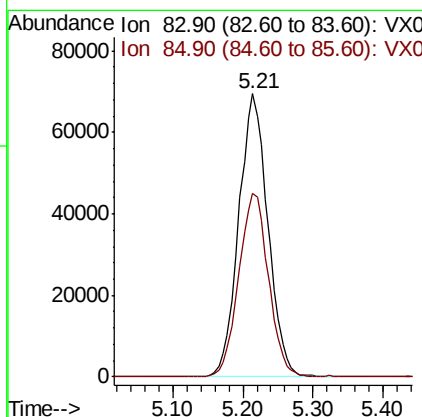
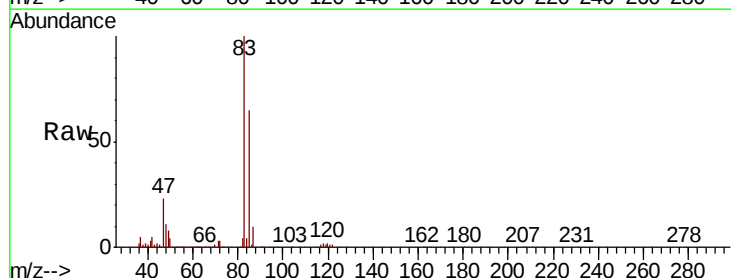
RT: 5.21 min Scan# 666

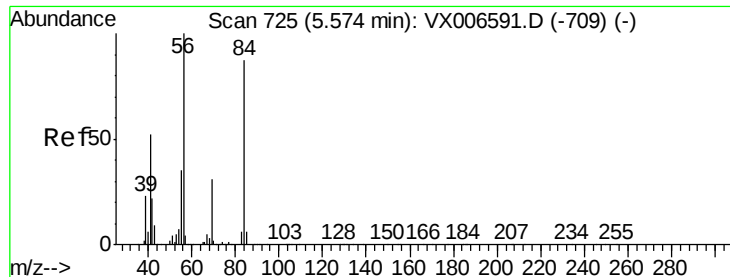
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	83	Resp:	200275
Ion Ratio		Lower	Upper
83	100		
85	64.8	50.3	75.5





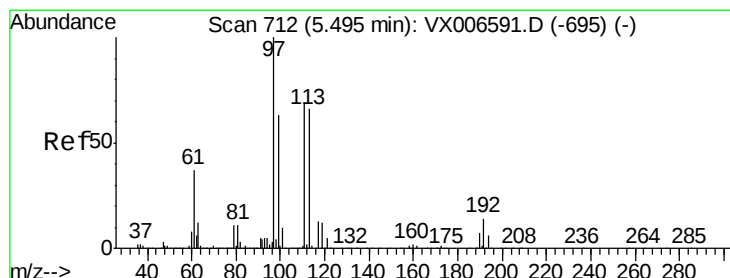
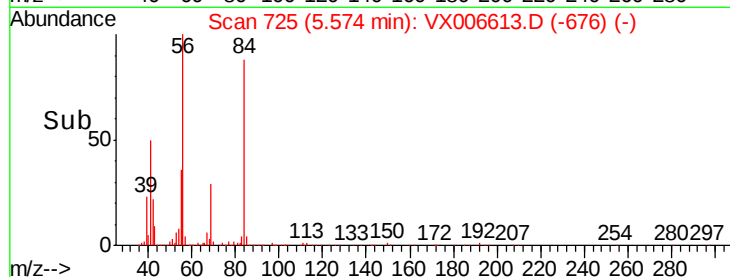
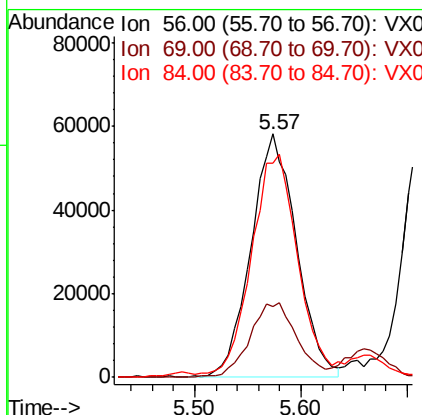
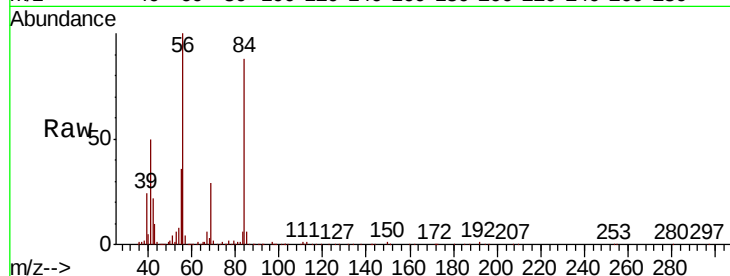
#31
Cyclohexane
Concen: 19.082 ug/l
RT: 5.57 min Scan# 725
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.2	24.5	36.7
84	86.8	71.8	107.6

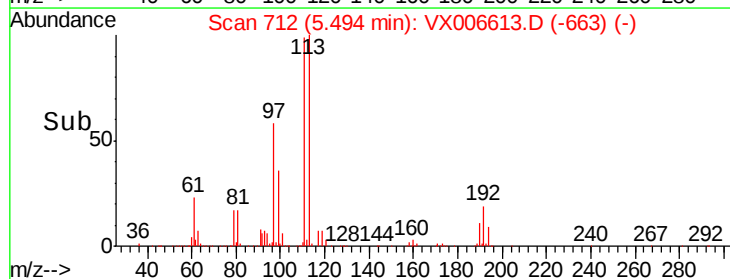
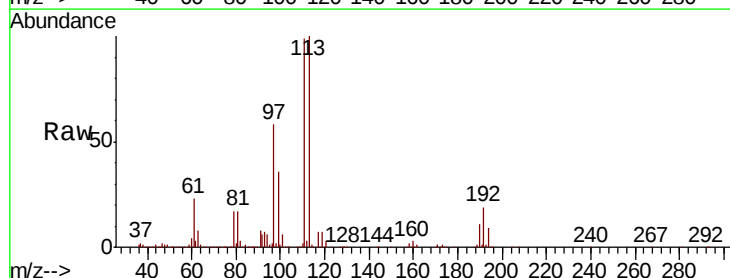
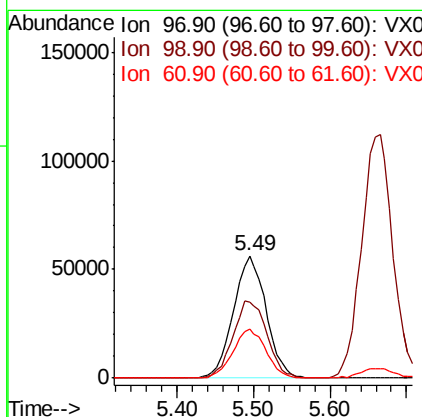
Manual Integrations
APPROVED

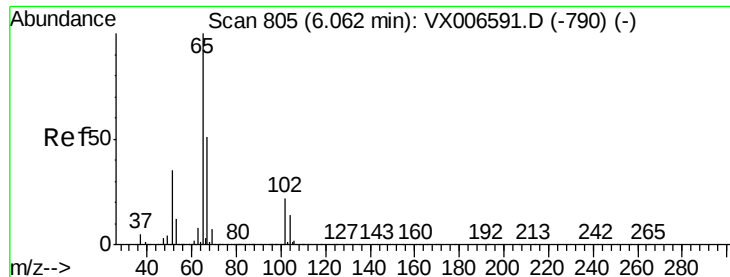
MMDadoda
12/19/2018 11:22:54 AM



#32
1,1,1-Trichloroethane
Concen: 19.118 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	51.6	77.4
61	40.8	30.6	46.0





#33

1,2-Dichloroethane-d4

Concen: 50.293 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 65 Resp: 327567

Ion Ratio Lower Upper

65 100

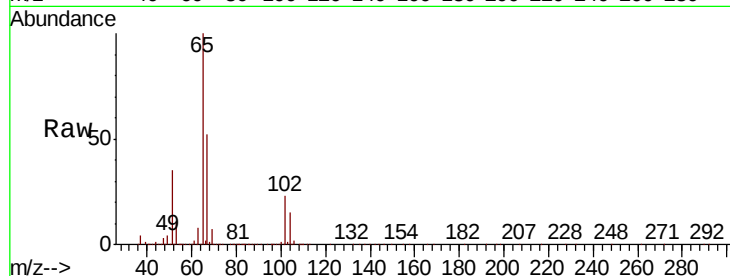
67 53.5 0.0 107.2

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

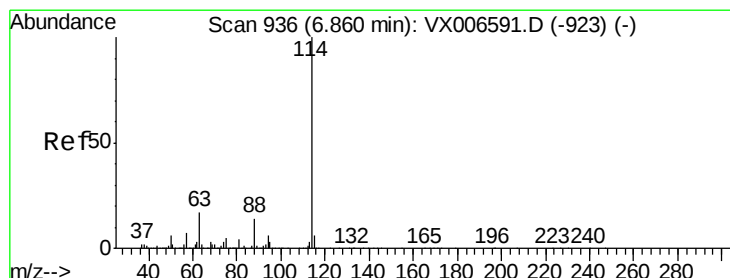
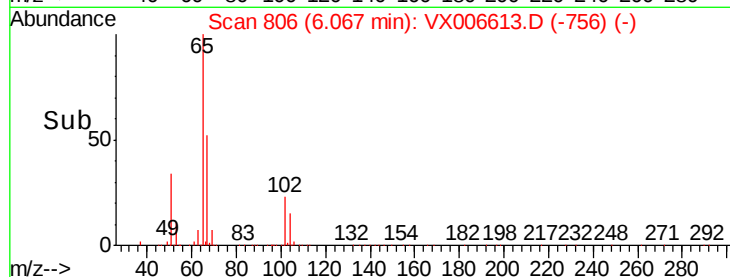
100000

50000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

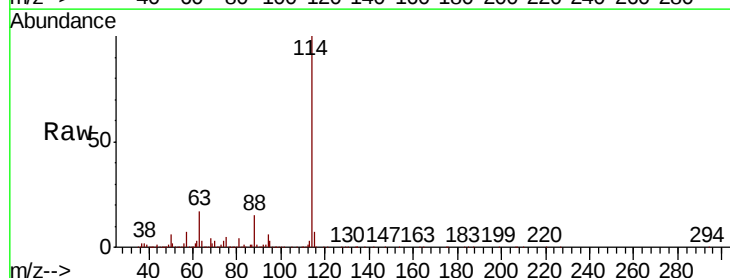
Tgt Ion: 114 Resp: 956688

Ion Ratio Lower Upper

114 100

63 17.3 0.0 36.6

88 15.0 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

500000

400000

300000

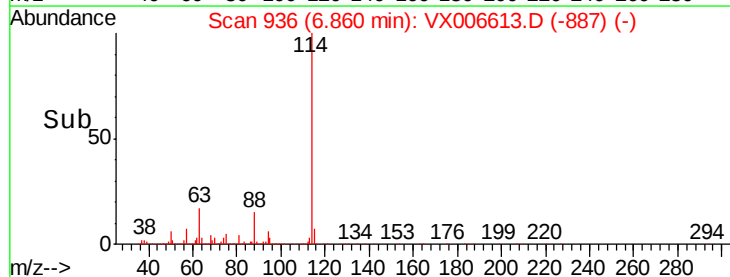
200000

100000

0

6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 48.095 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

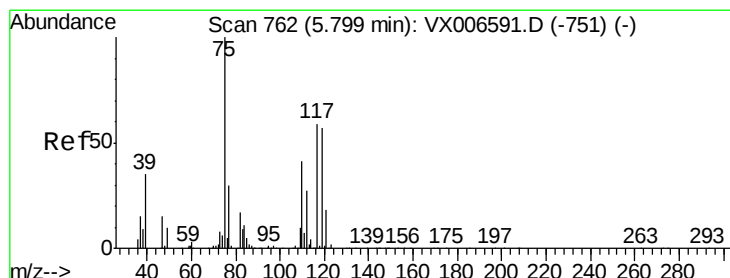
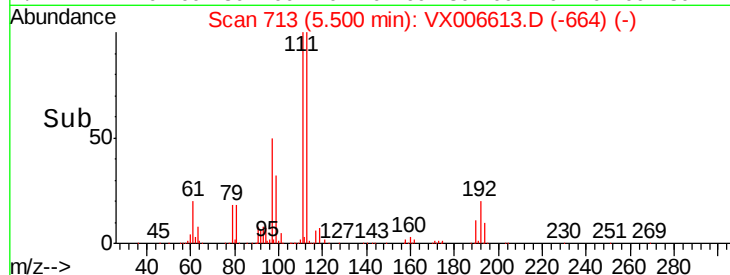
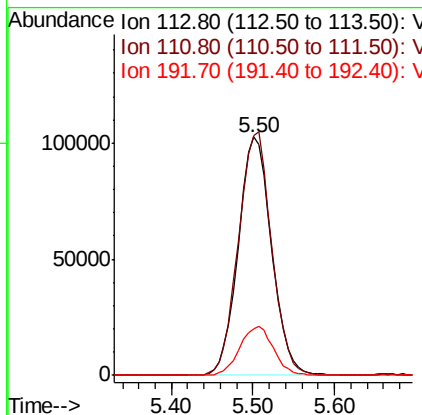
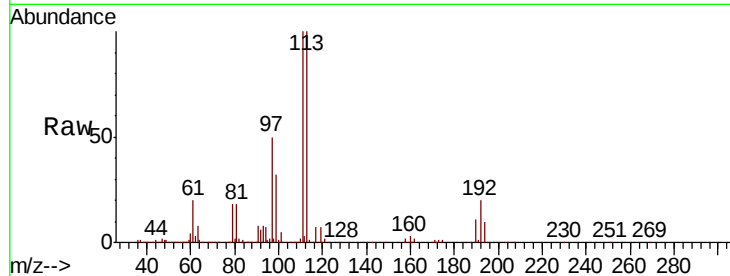
ClientSampleId :

VX1218WBSD02

Tot Ion:	113	Resp:	290971
Ion Ratio	Lower	Upper	
113	100		
111	101.9	81.1	121.7
192	21.0	18.2	27.2

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#36

1,1-Dichloropropene

Concen: 18.677 ug/l

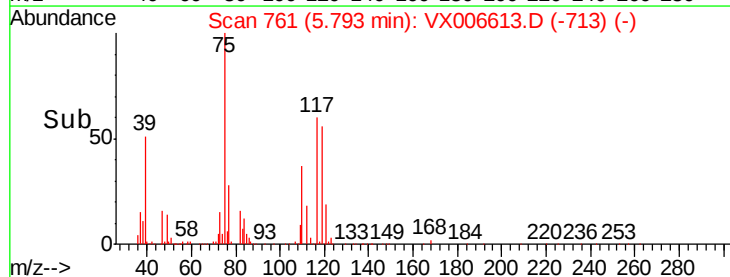
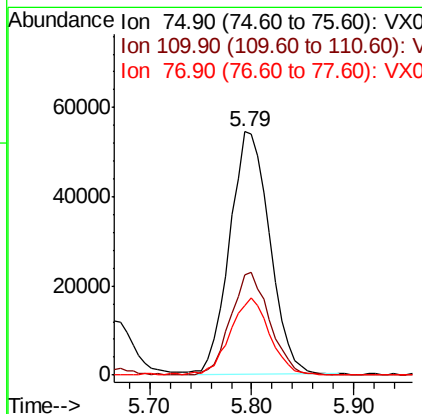
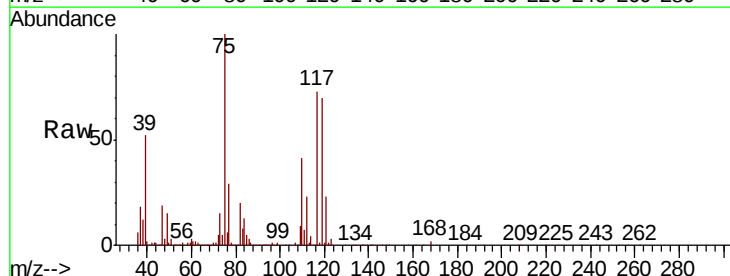
RT: 5.79 min Scan# 761

Delta R.T. -0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	75	Resp:	147986
Ion Ratio	Lower	Upper	
75	100		
110	41.4	20.4	61.3
77	30.9	24.9	37.3





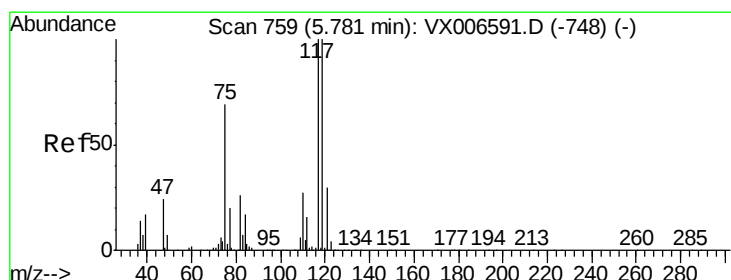
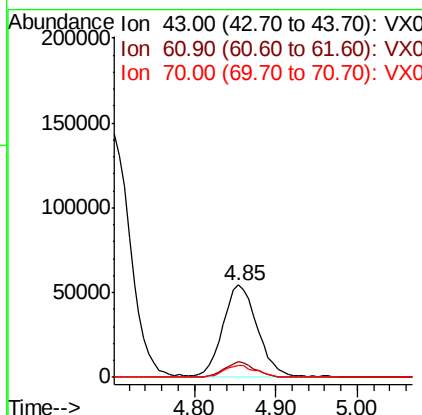
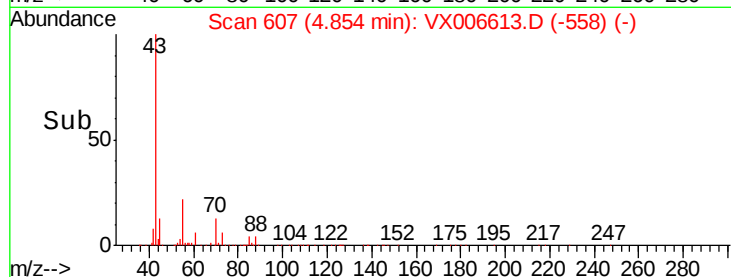
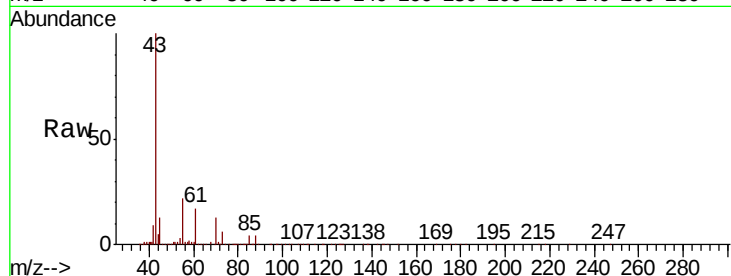
#37
Ethyl Acetate
Concen: 19.182 ug/l
RT: 4.85 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	43	Resp	158194
Ion Ratio	Lower	Upper	
43	100		
61	14.7	11.5	17.3
70	13.0	9.0	13.6

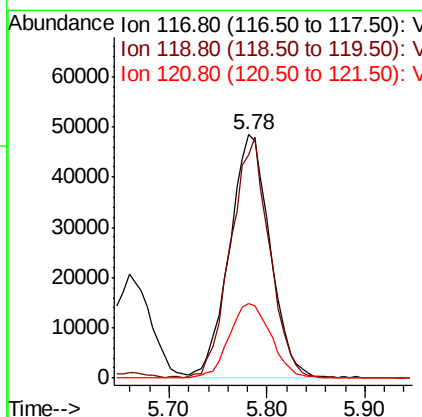
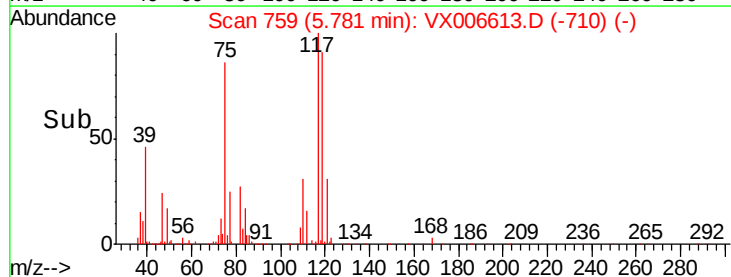
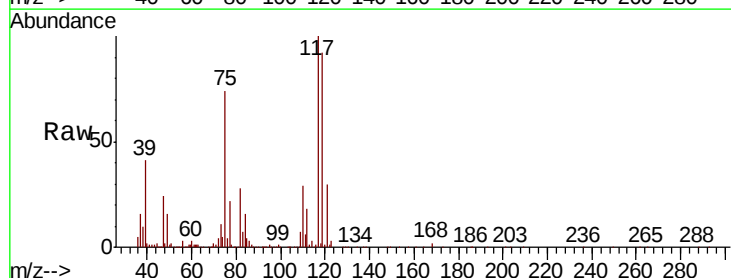
Manual Integrations
APPROVED

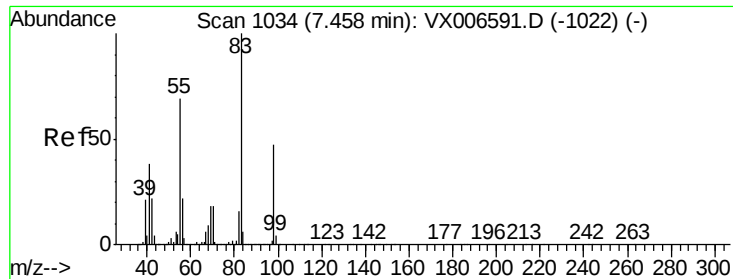
MMDadoda
12/19/2018 11:22:54 AM



#38
Carbon Tetrachloride
Concen: 18.063 ug/l
RT: 5.78 min Scan# 759
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	117	Resp	139093
Ion Ratio	Lower	Upper	
117	100		
119	91.8	75.8	113.8
121	30.3	24.6	37.0





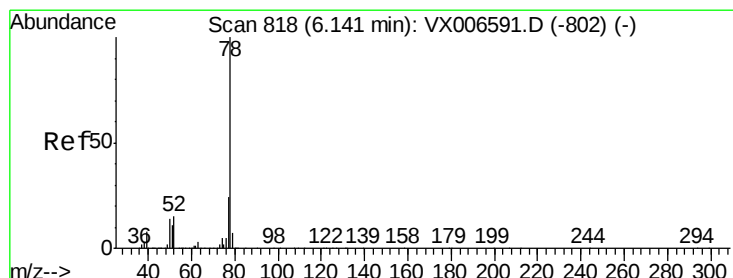
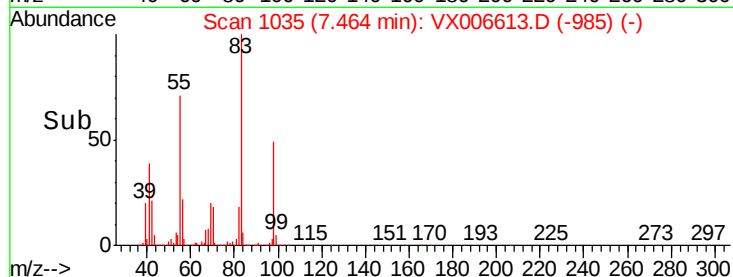
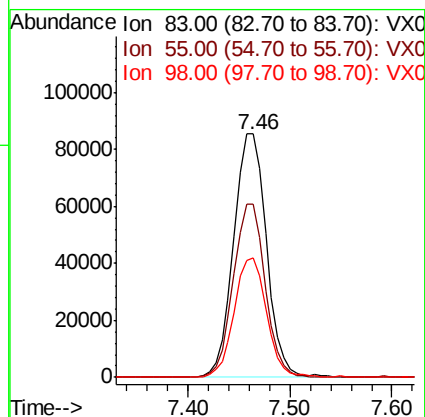
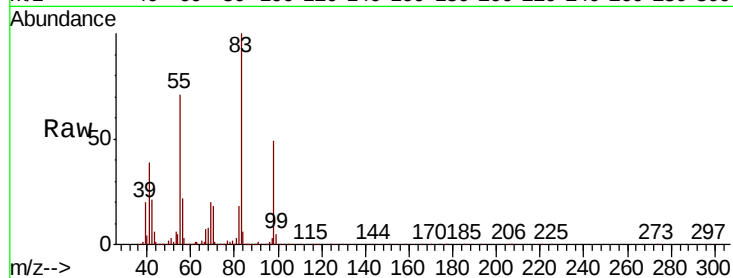
#39
Methvlcvclohexane
Concen: 18.195 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.9	56.4	84.6
98	48.8	39.0	58.6

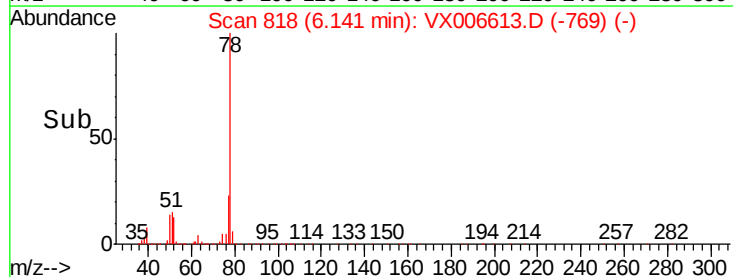
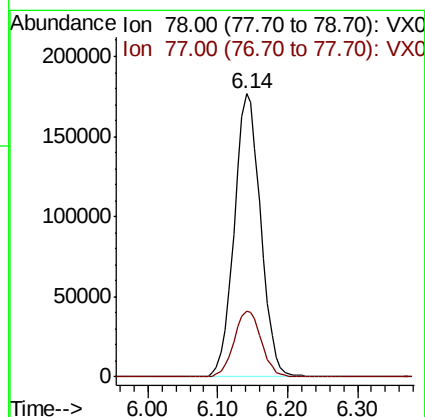
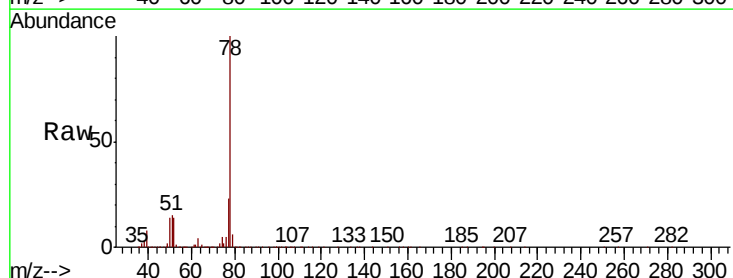
Manual Integrations
APPROVED

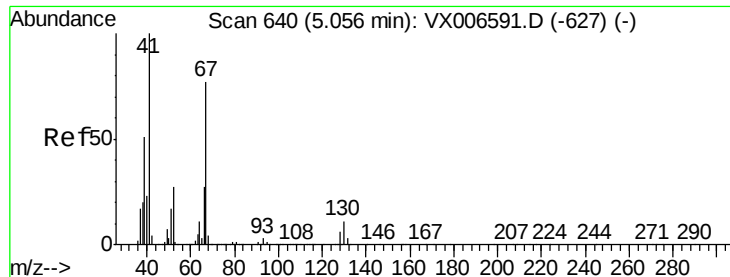
MMDadoda
12/19/2018 11:22:54 AM



#40
Benzene
Concen: 19.184 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.2	28.8





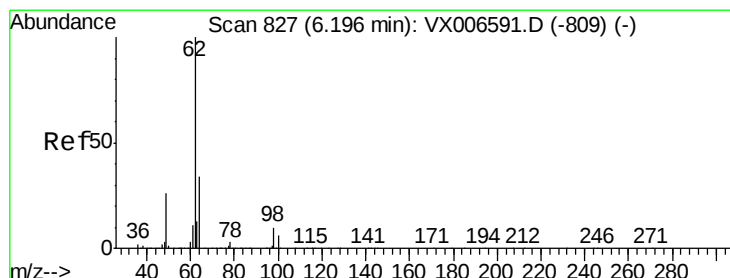
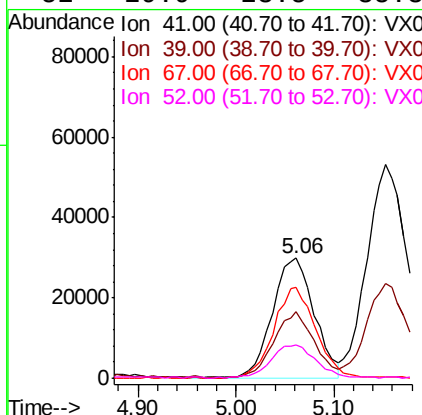
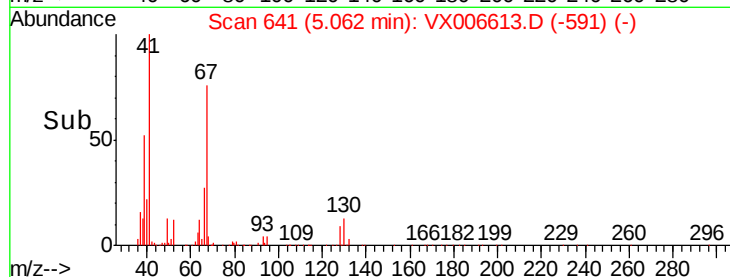
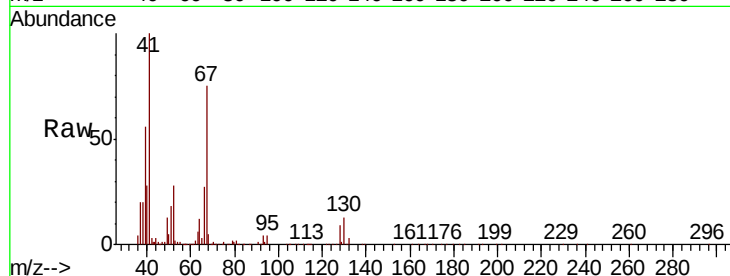
#41
Methacrylonitrile
Concen: 19.166 ug/l
RT: 5.06 min Scan# 641
Delta R.T. 0.01 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		88821		
39	53.5	44.0	66.0		
67	76.4	61.4	92.0		
52	29.9	23.5	35.3		

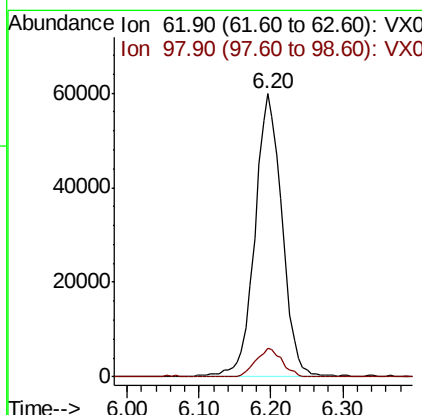
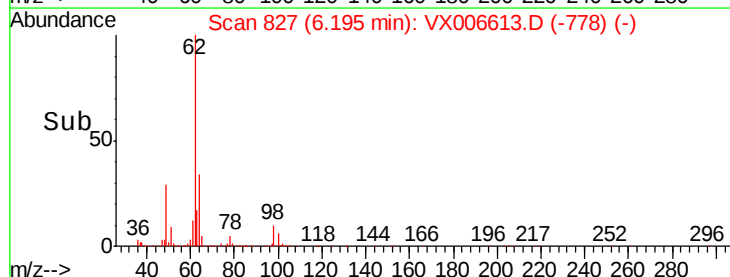
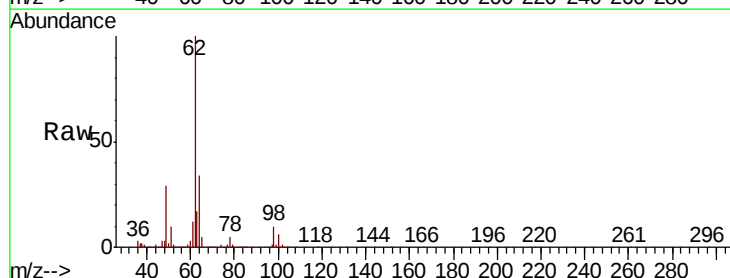
Manual Integrations
APPROVED

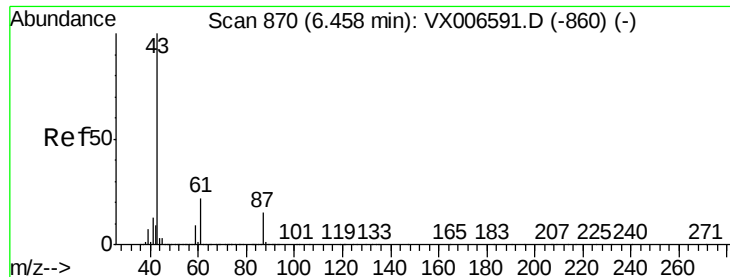
MMDadoda
12/19/2018 11:22:54 AM



#42
1,2-Dichloroethane
Concen: 18.973 ug/l
RT: 6.20 min Scan# 827
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		155711		
98	10.1	0.0	20.2		





#43

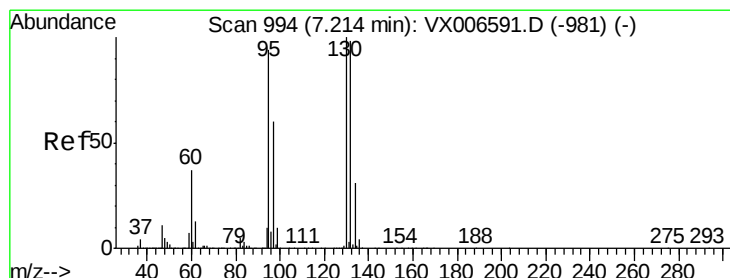
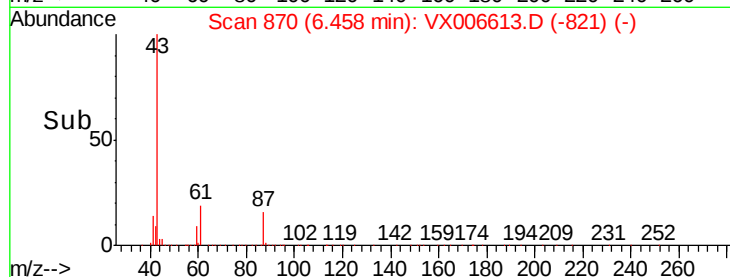
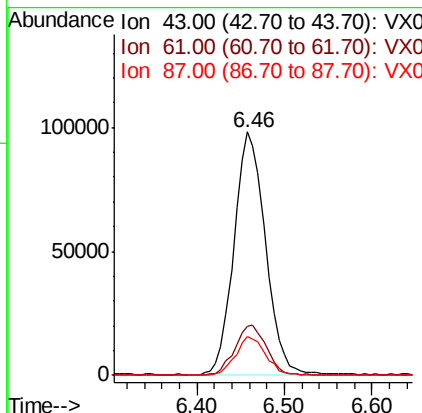
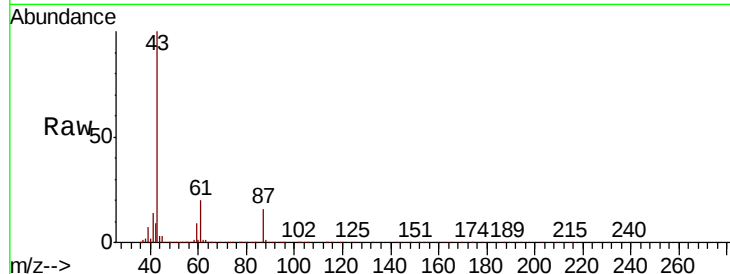
Isopropyl Acetate
 Concen: 19.394 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.00 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.1	16.8	25.2
87	15.6	11.9	17.9

Manual Integrations
 APPROVED

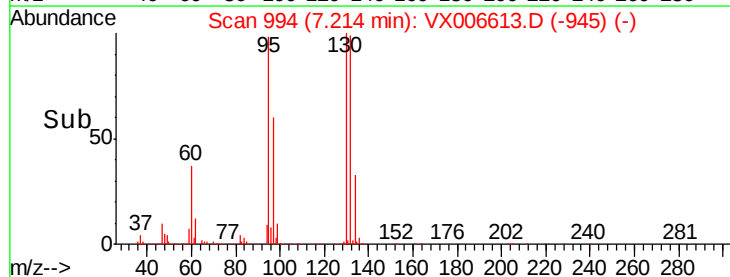
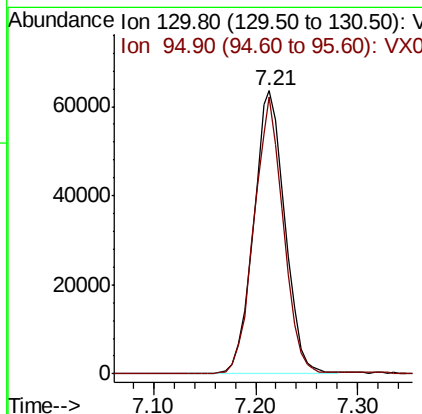
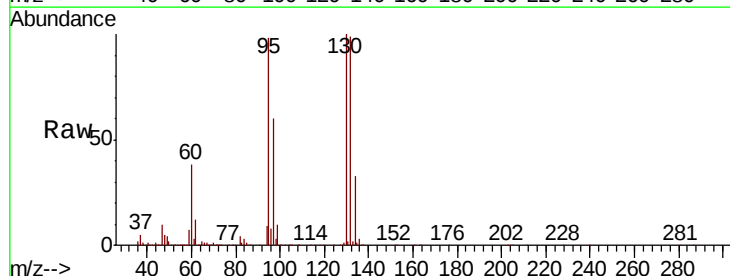
MMDadoda
 12/19/2018 11:22:54 AM



#44

Trichloroethene
 Concen: 18.536 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	175.8





#45

1,2-Dichloropropane

Concen: 19.375 ug/l

RT: 7.52 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 63 Resp: 11357

Ion Ratio Lower Upper

63 100

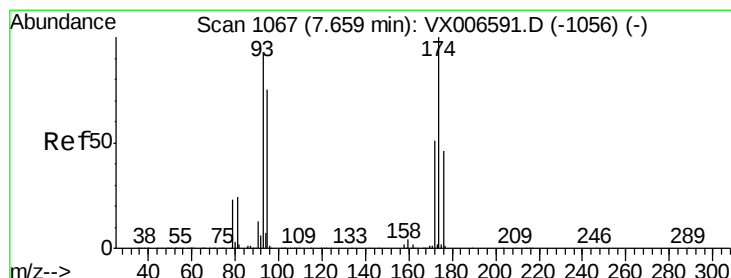
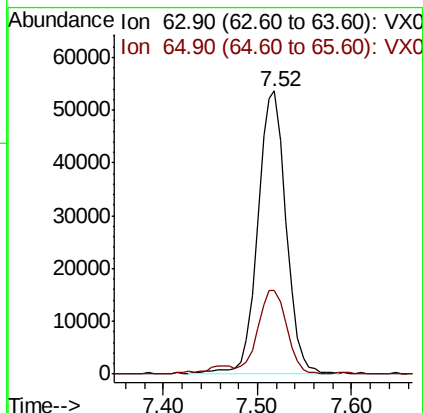
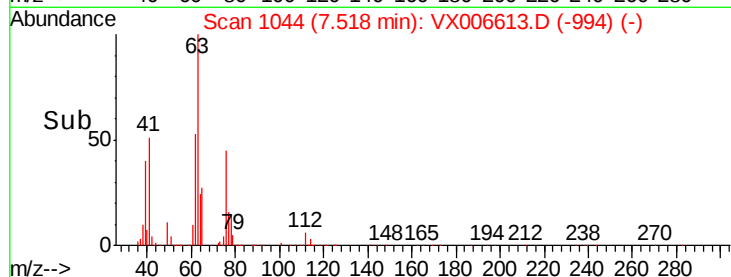
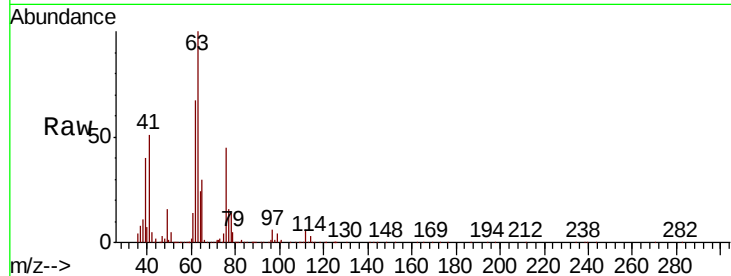
65 29.0 24.3 36.5

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#46

Dibromomethane

Concen: 18.872 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

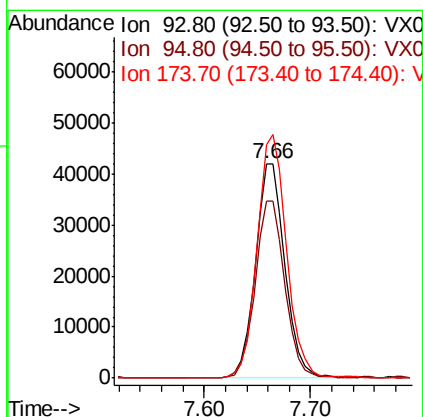
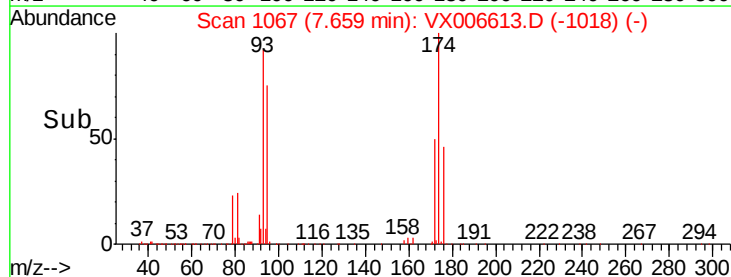
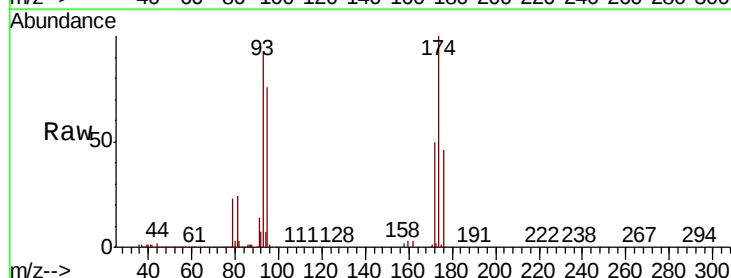
Tgt Ion: 93 Resp: 81360

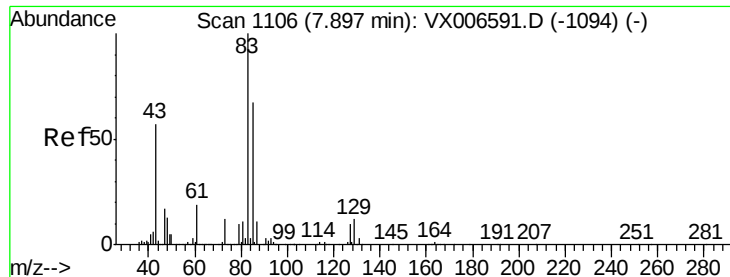
Ion Ratio Lower Upper

93 100

95 83.2 66.2 99.4

174 113.9 97.2 145.8





#47

Bromodichloromethane

Concen: 18.277 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

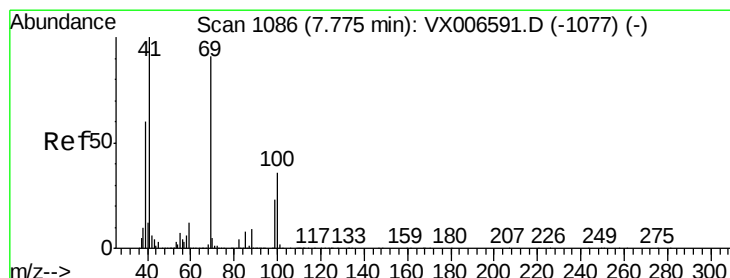
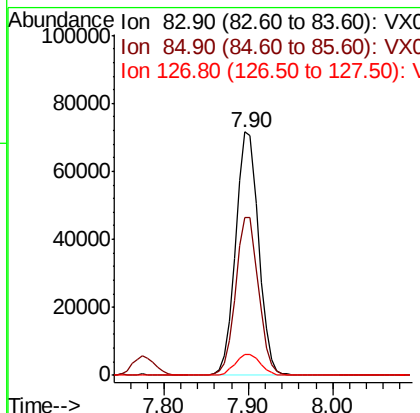
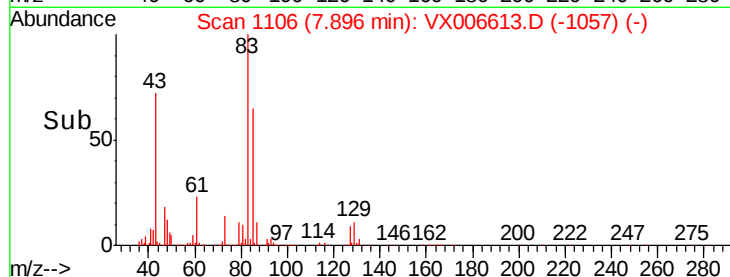
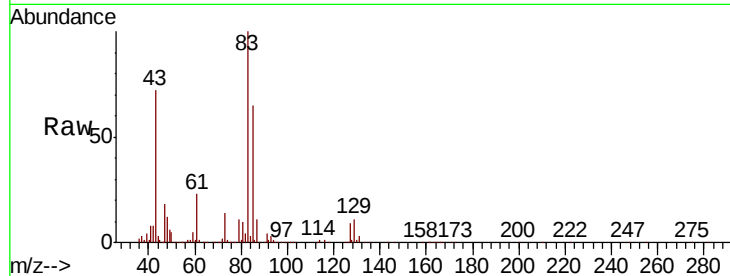
ClientSampleId :

VX1218WBSD02

Tot Ion:	83	Resp:	130815
Ion Ratio	Lower	Upper	
83	100		
85	64.7	51.4	77.0
127	8.8	7.9	11.9

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#48

Methyl methacrylate

Concen: 19.636 ug/l

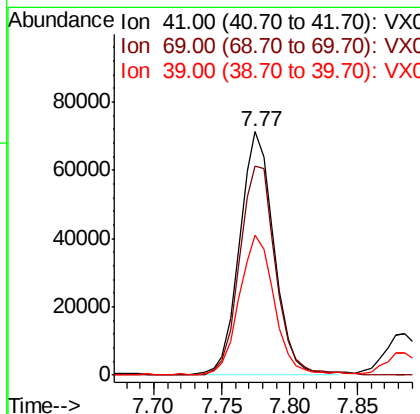
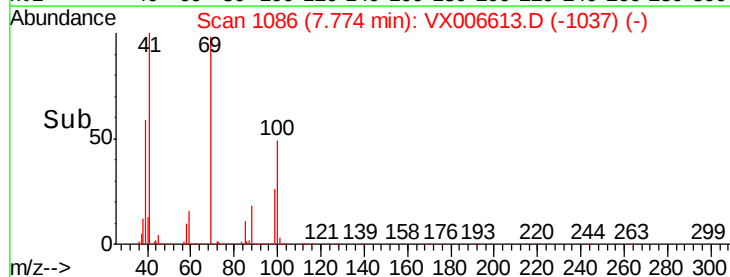
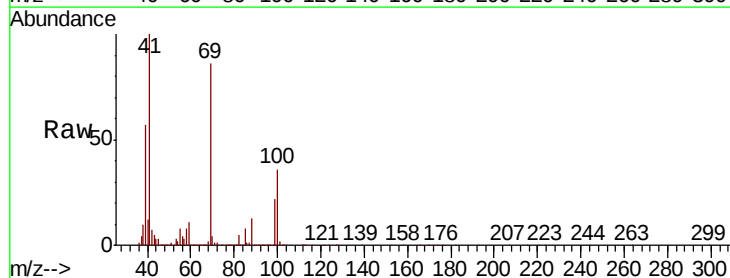
RT: 7.77 min Scan# 1086

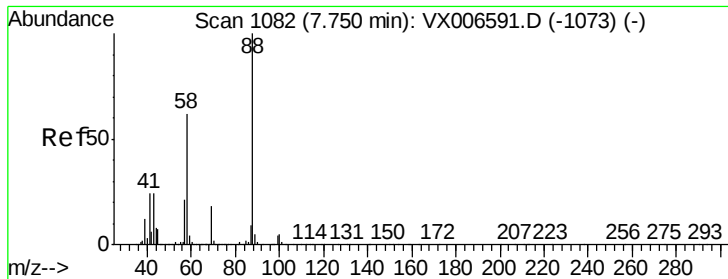
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	41	Resp:	125301
Ion Ratio	Lower	Upper	
41	100		
69	90.5	70.3	105.5
39	57.8	45.3	67.9





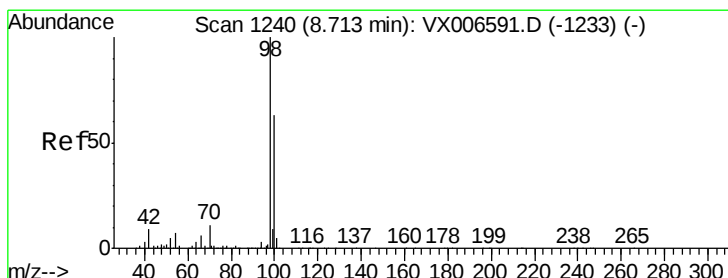
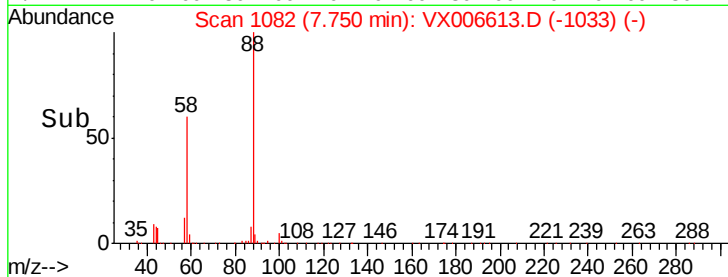
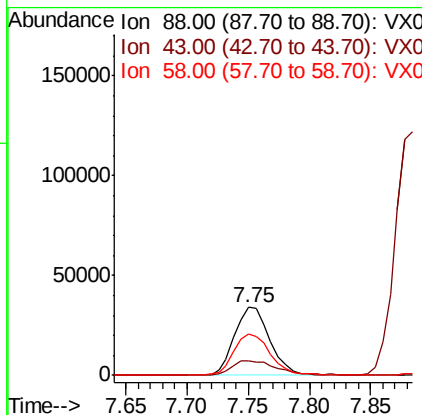
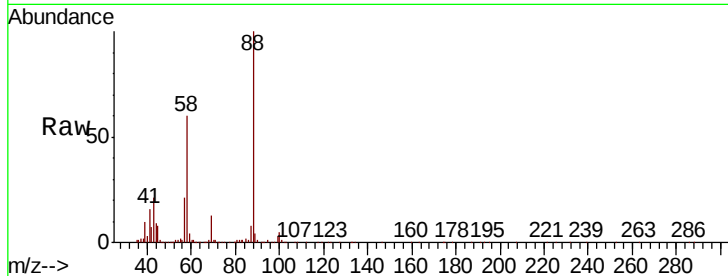
#49
1,4-Dioxane
Concen: 398.736 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.0	23.2	34.8
58	62.8	51.4	77.0

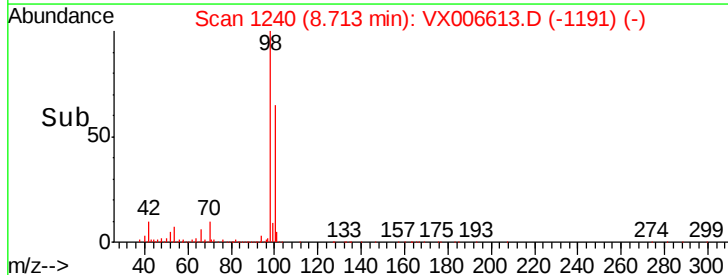
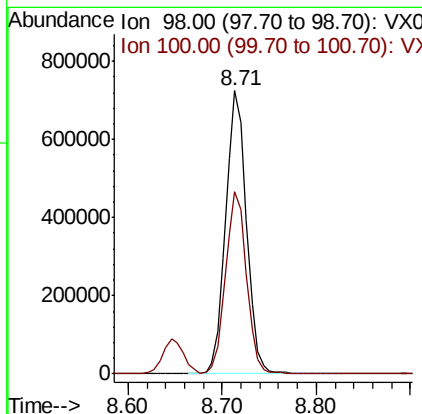
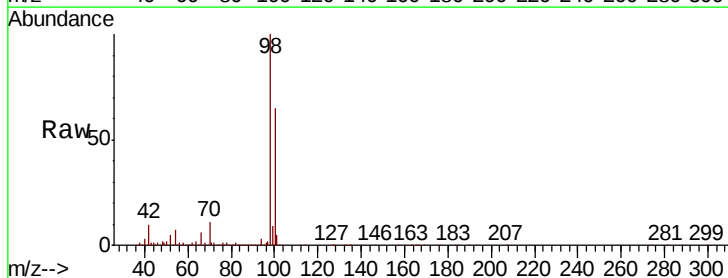
Manual Integrations
APPROVED

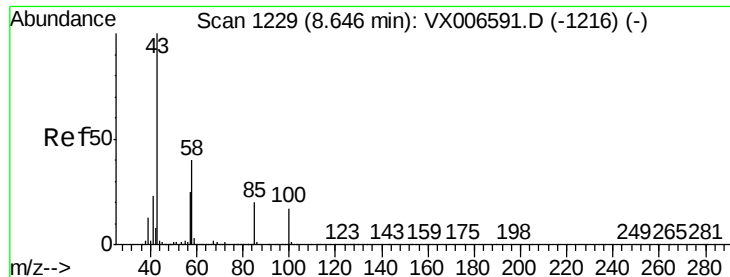
MMDadoda
12/19/2018 11:22:54 AM



#50
Toluene-d8
Concen: 48.756 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 100.910 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 43 Resp: 805672

Ion Ratio Lower Upper

43 100

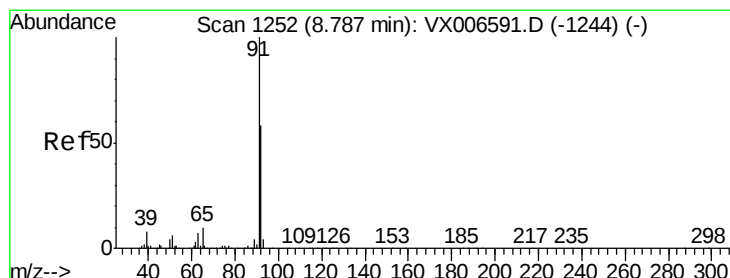
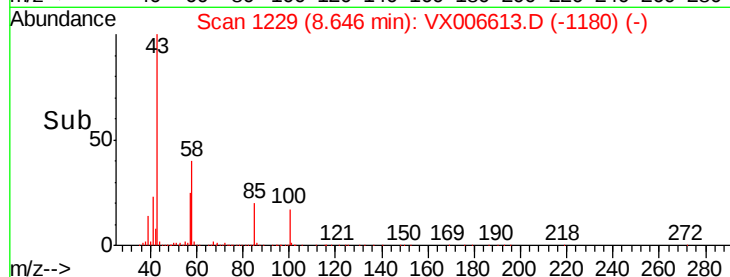
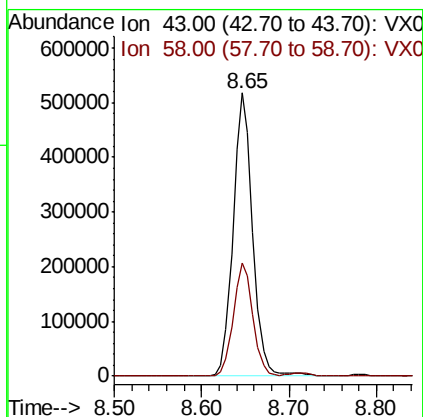
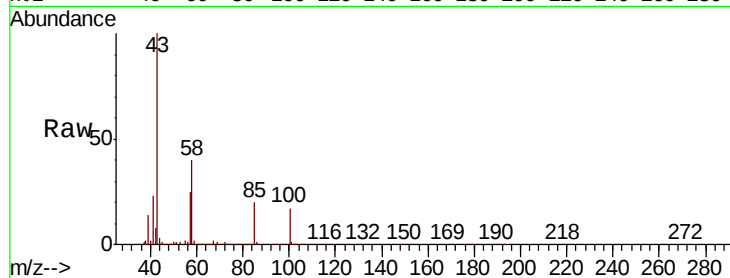
58 40.0 31.3 46.9

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#52

Toluene

Concen: 19.256 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX006613.D

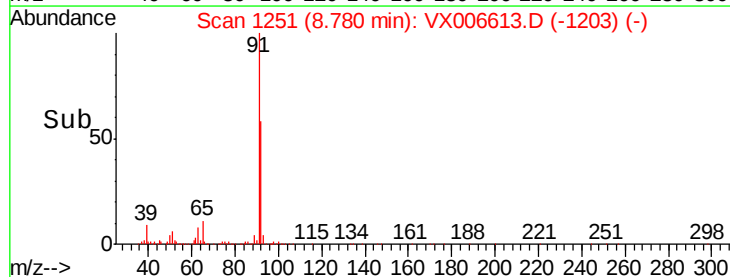
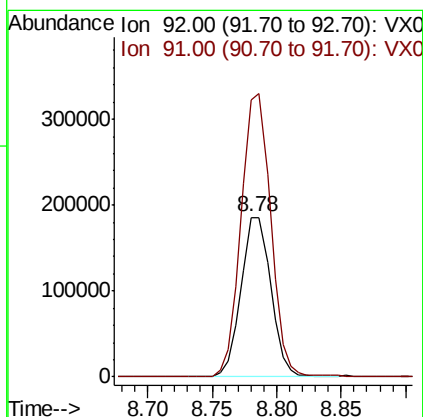
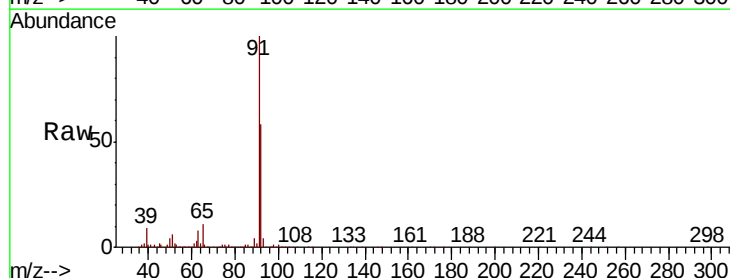
Acq: 18 Dec 2018 22:58

Tgt Ion: 92 Resp: 299616

Ion Ratio Lower Upper

92 100

91 176.2 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 17.103 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 75 Resp: 131291

Ion Ratio Lower Upper

75 100

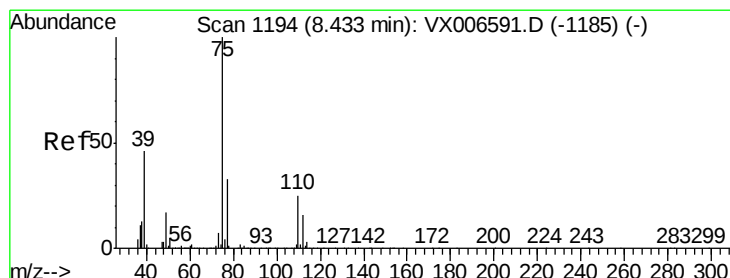
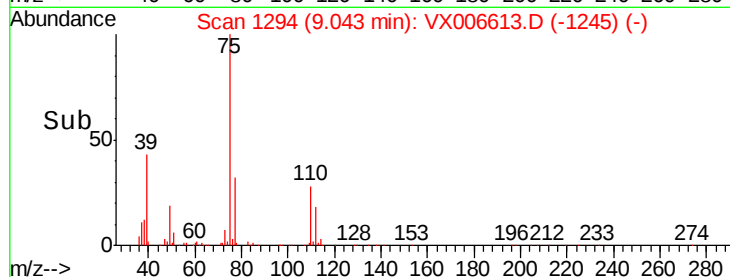
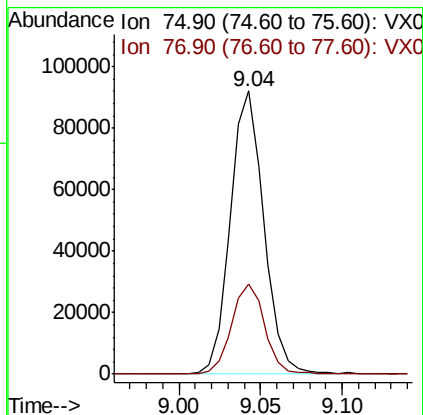
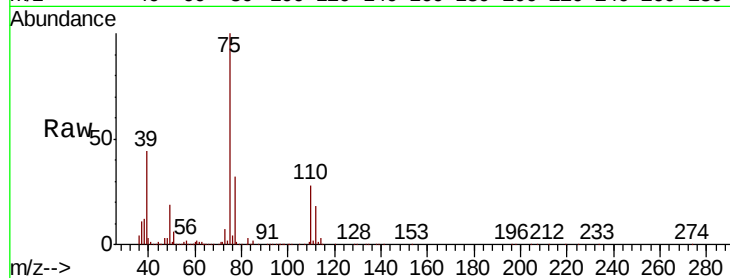
77 31.6 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#54

cis-1,3-Dichloropropene

Concen: 18.187 ug/l

RT: 8.43 min Scan# 1194

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

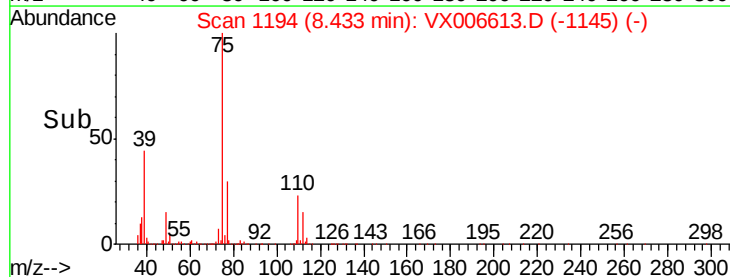
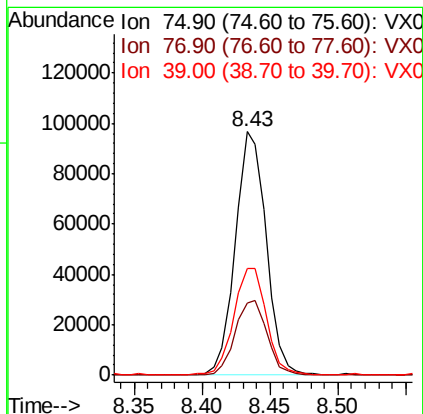
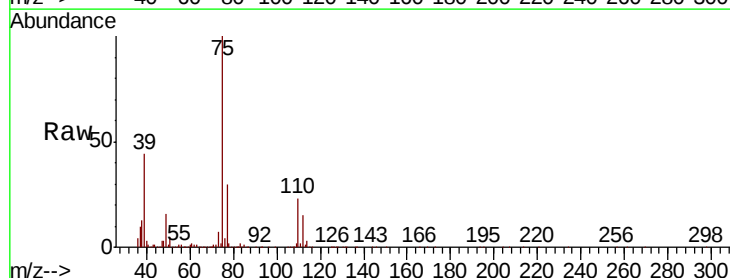
Tgt Ion: 75 Resp: 153184

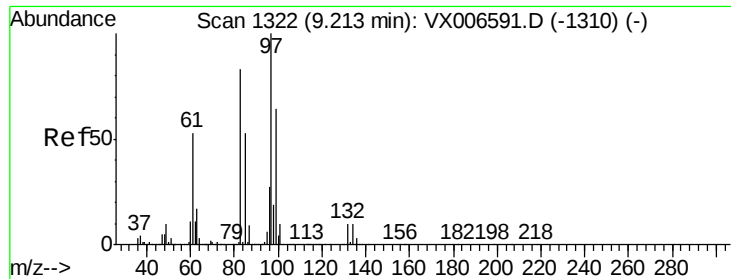
Ion Ratio Lower Upper

75 100

77 29.5 25.6 38.4

39 43.8 36.5 54.7





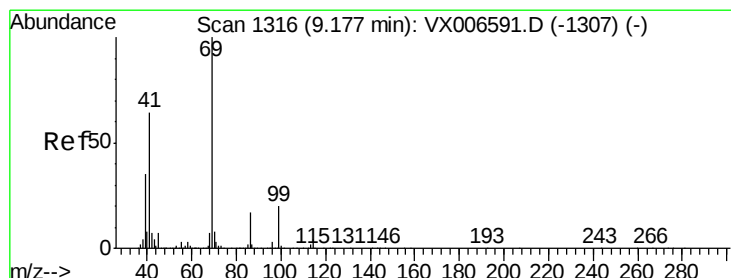
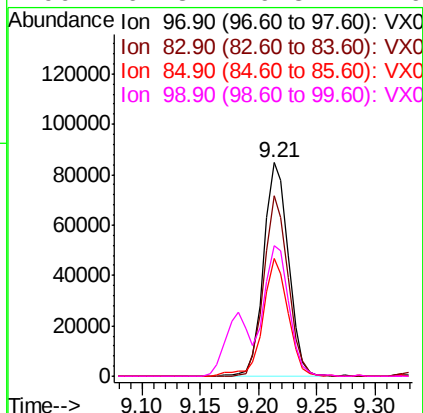
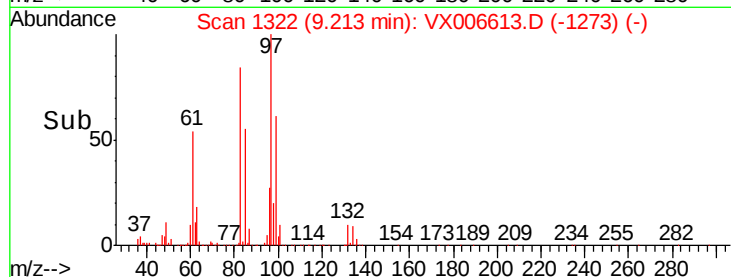
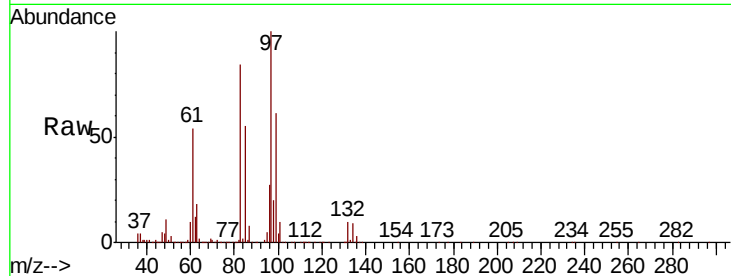
#55
 1,1,2-Trichloroethane
 Concen: 19.610 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		124895		
83	84.3	67.1	100.7		
85	54.9	43.2	64.8		
99	61.3	49.8	74.6		

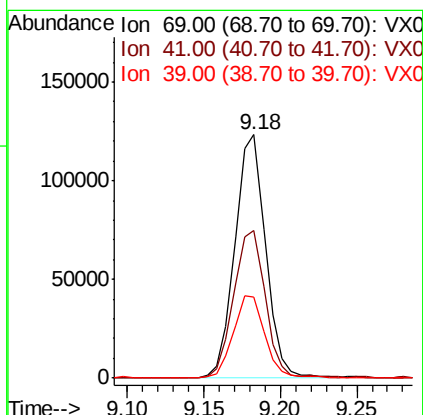
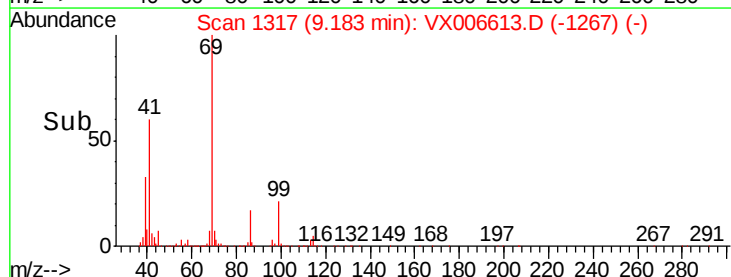
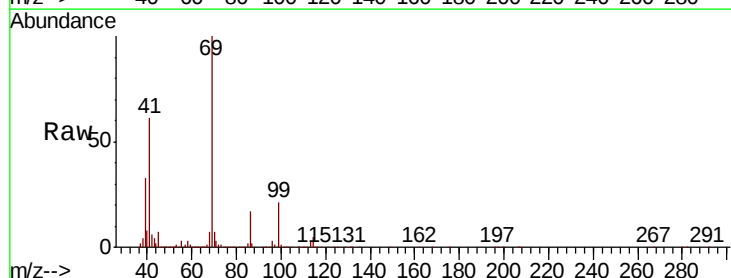
Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 11:22:54 AM



#56
 Ethyl methacrylate
 Concen: 19.125 ug/l
 RT: 9.18 min Scan# 1317
 Delta R.T. 0.01 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		172159		
41	62.6	50.6	76.0		
39	34.6	27.6	41.4		





#57

1,3-Dichloropropane

Concen: 19.156 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 76 Resp: 196291

Ion Ratio Lower Upper

76 100

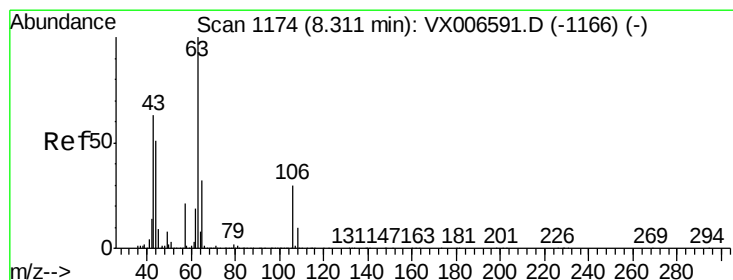
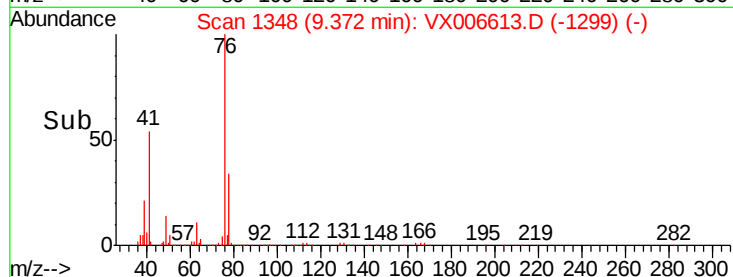
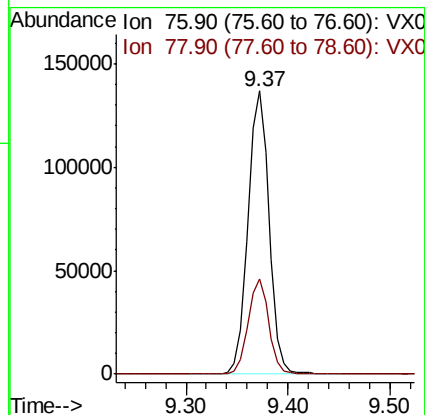
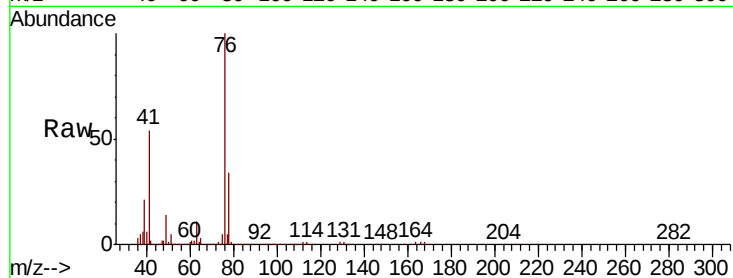
78 32.6 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#58

2-Chloroethyl Vinyl ether

Concen: 100.552 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX006613.D

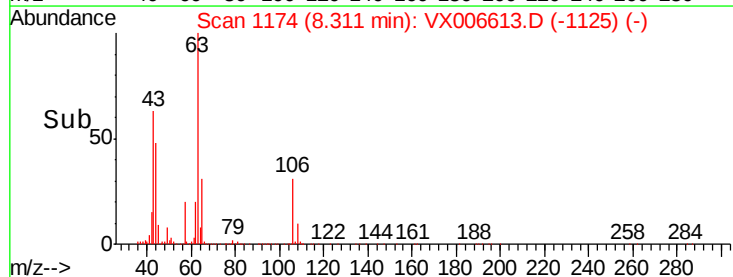
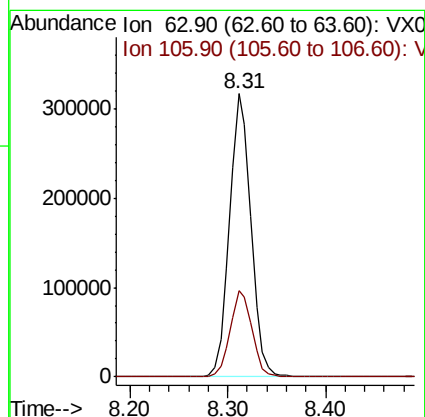
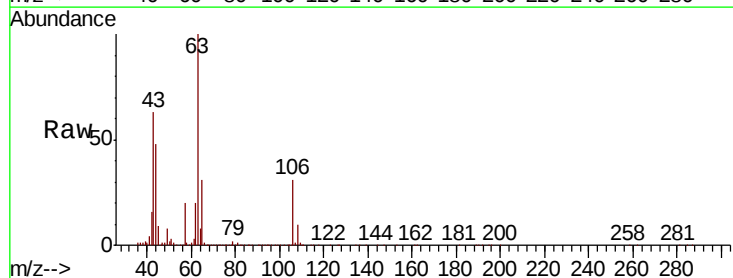
Acq: 18 Dec 2018 22:58

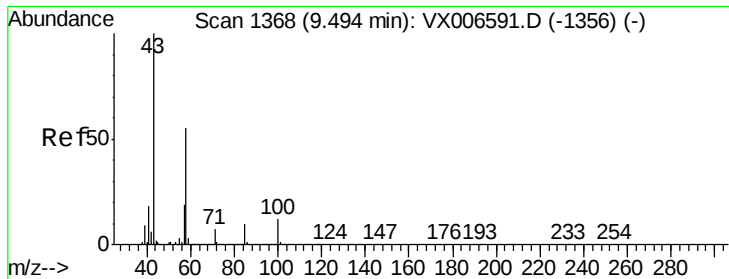
Tgt Ion: 63 Resp: 481141

Ion Ratio Lower Upper

63 100

106 31.2 24.9 37.3





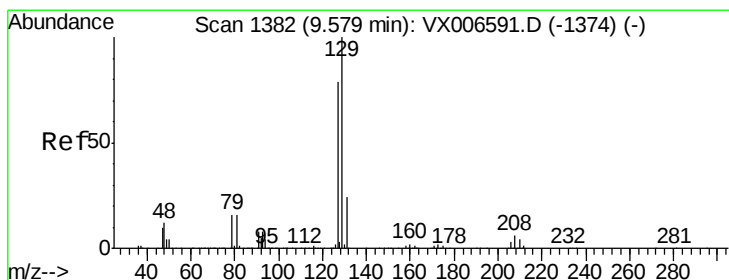
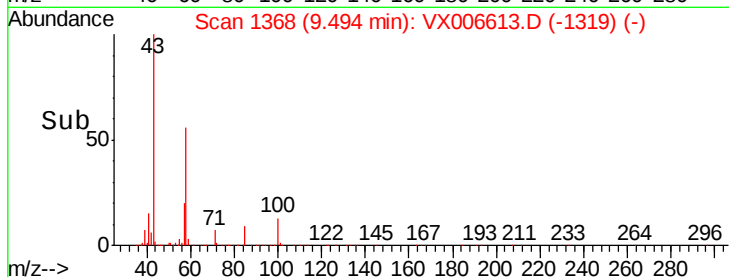
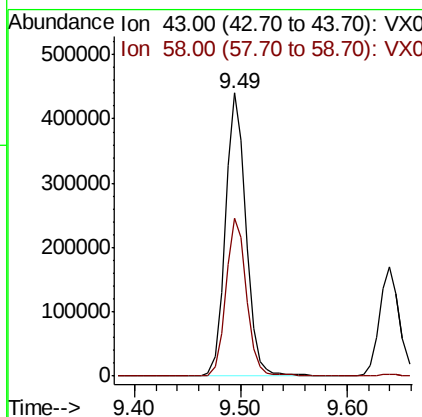
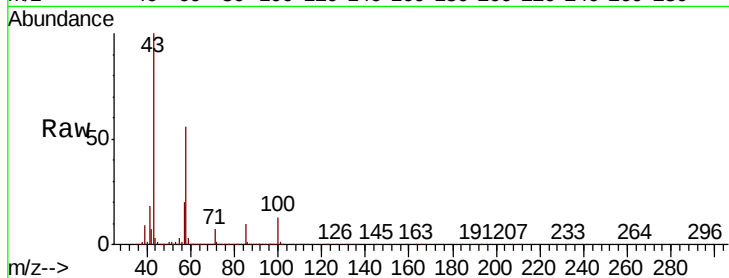
#59
2-Hexanone
Concen: 97.453 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion: 43 Resp: 595312
Ion Ratio Lower Upper
43 100
58 56.0 27.7 83.1

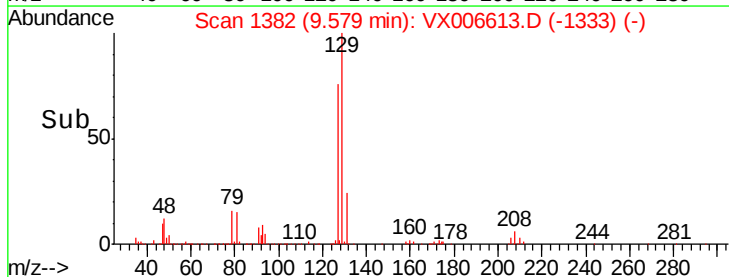
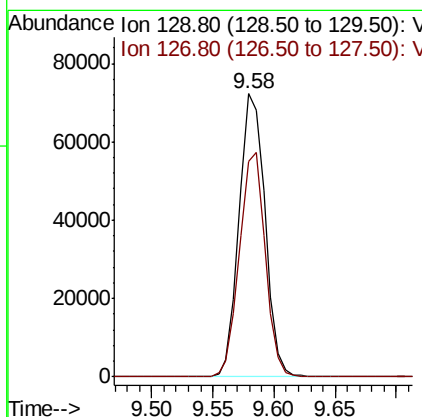
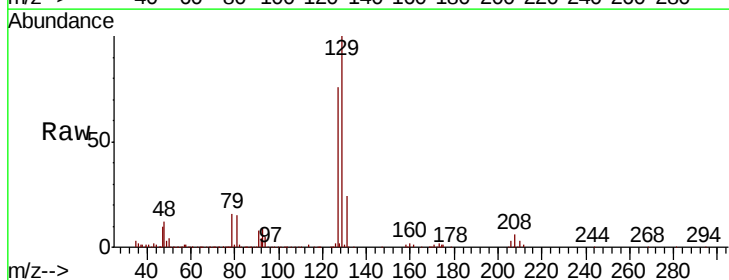
Manual Integrations
APPROVED

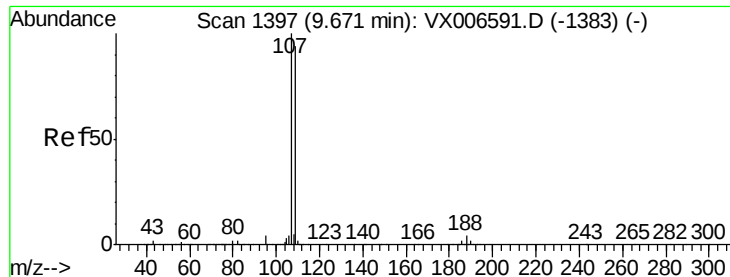
MMDadoda
12/19/2018 11:22:54 AM



#60
Dibromochloromethane
Concen: 17.577 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion: 129 Resp: 106553
Ion Ratio Lower Upper
129 100
127 78.6 38.6 115.8





#61

1,2-Dibromoethane

Concen: 19.429 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 107 Resp: 131543

Ion Ratio Lower Upper

107 100

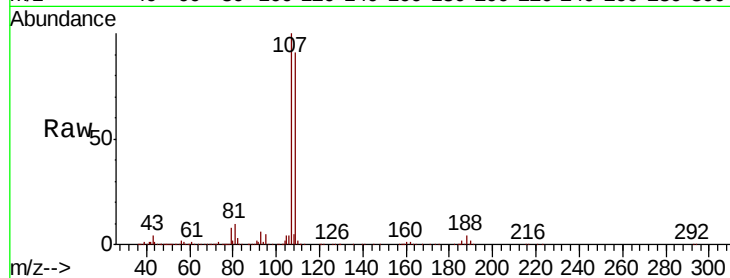
109 93.3 76.3 114.5

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

100000

80000

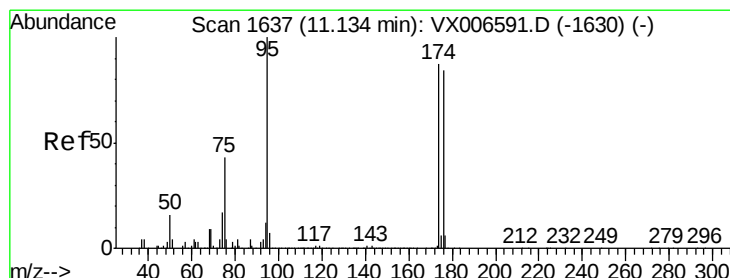
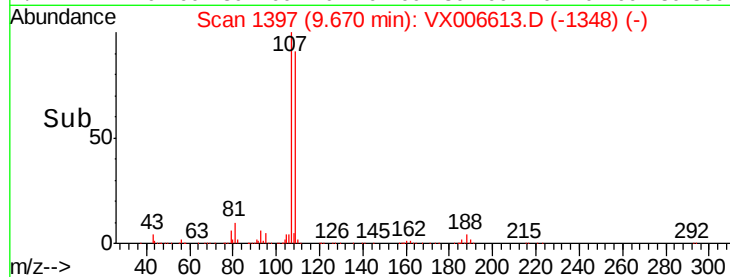
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.810 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

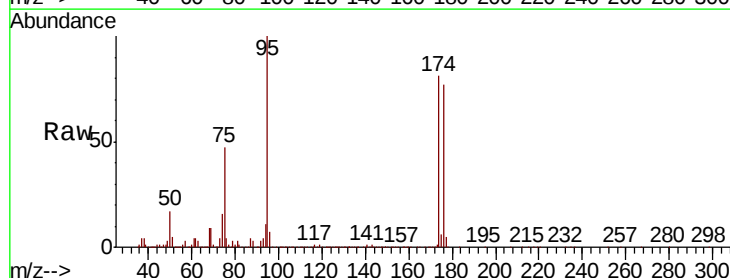
Tgt Ion: 95 Resp: 407725

Ion Ratio Lower Upper

95 100

174 89.7 0.0 187.0

176 86.0 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

400000

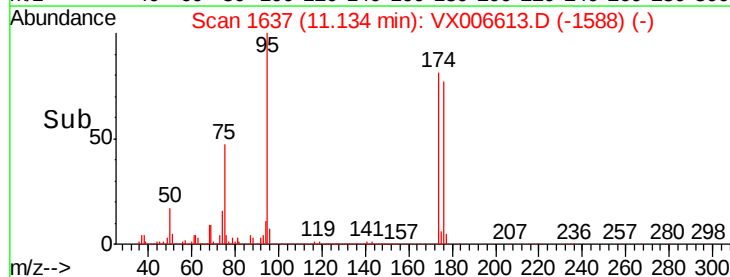
300000

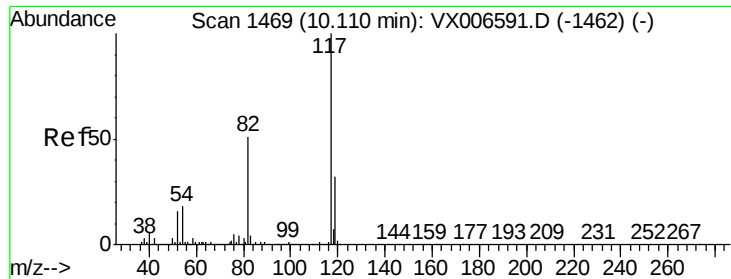
200000

100000

0

Time-->





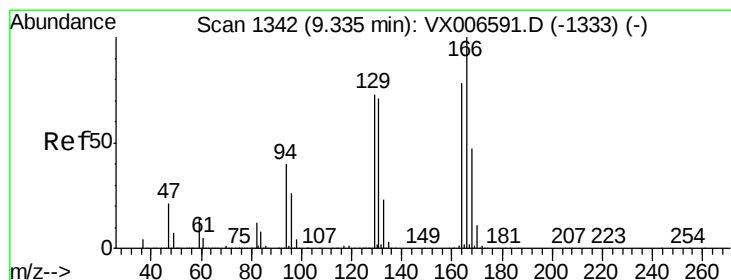
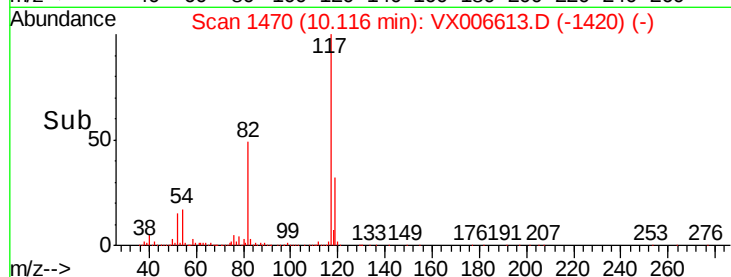
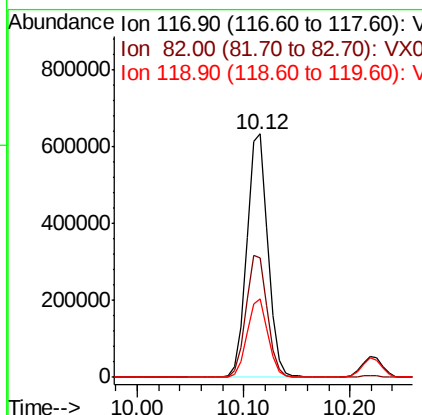
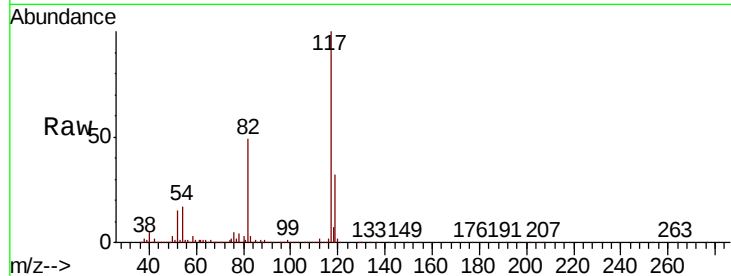
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	880216		
82	49.2		39.6	59.4
119	32.1		26.3	39.5

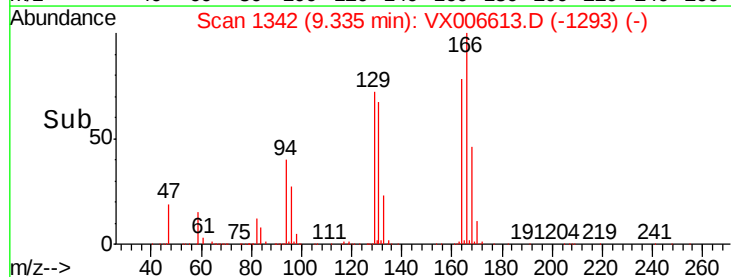
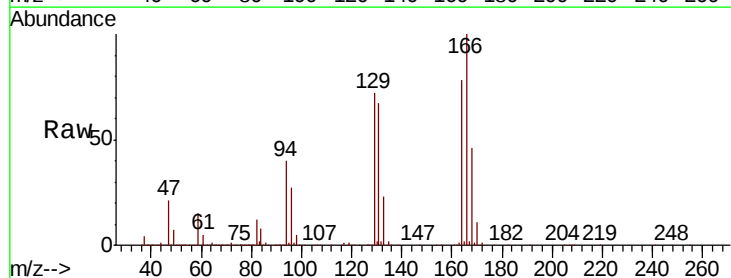
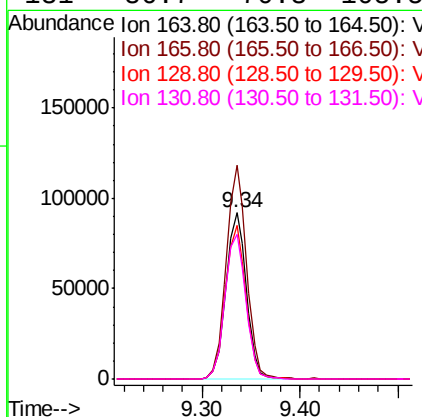
Manual Integrations
APPROVED

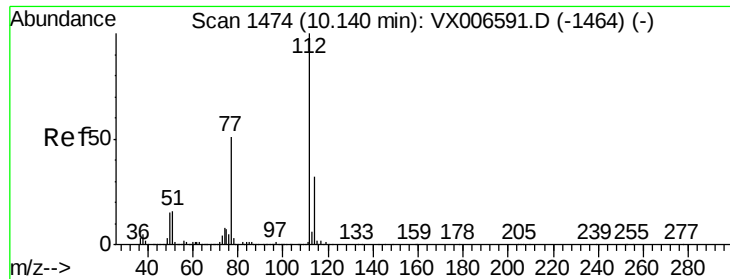
MMDadoda
12/19/2018 11:22:54 AM



#64
Tetrachloroethene
Concen: 19.175 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	133649		
166	128.5		104.2	156.2
129	92.5		72.6	108.8
131	86.7		70.3	105.5





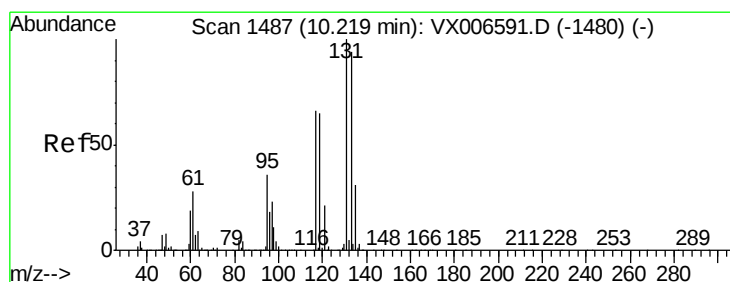
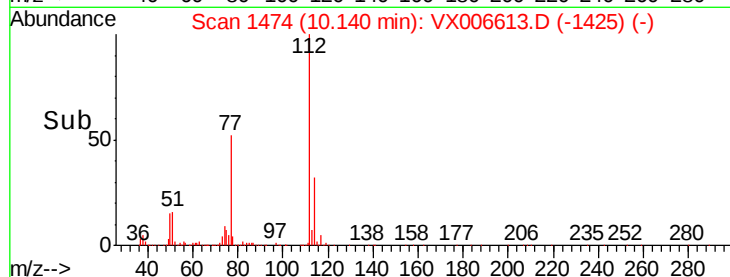
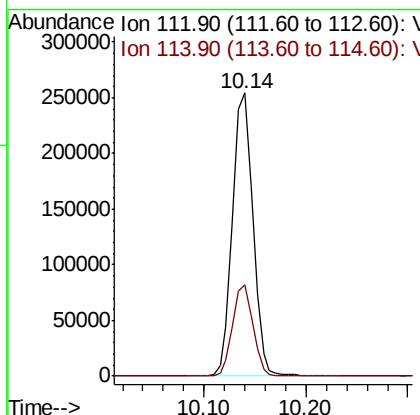
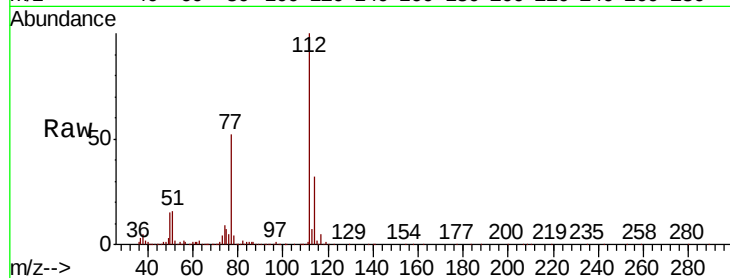
#65
Chlorobenzene
Concen: 18.964 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.4	38.2

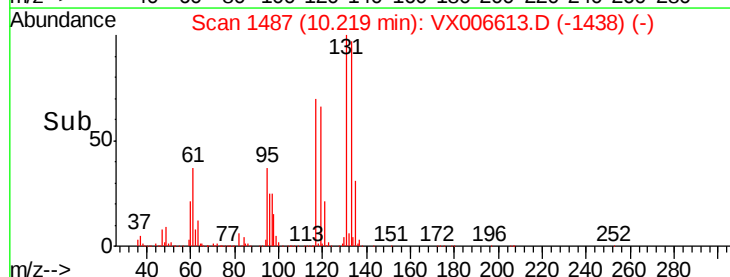
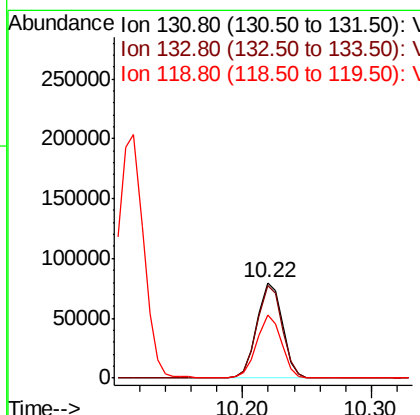
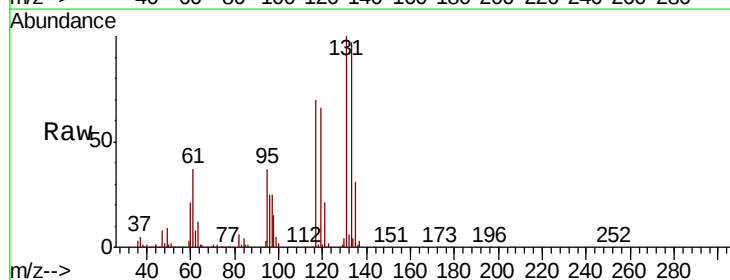
Manual Integrations
APPROVED

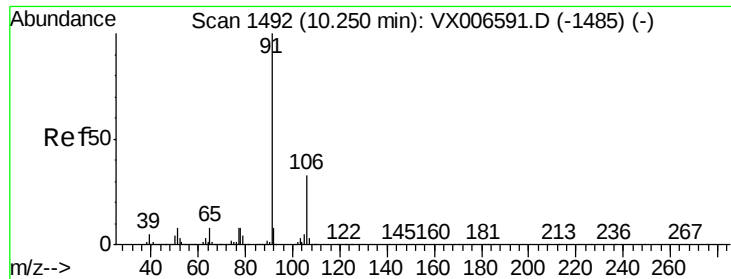
MMDadoda
12/19/2018 11:22:54 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.808 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.6	48.1	144.4
119	64.4	32.1	96.3





#67

Ethyl Benzene

Concen: 18.814 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 91 Resp: 572491

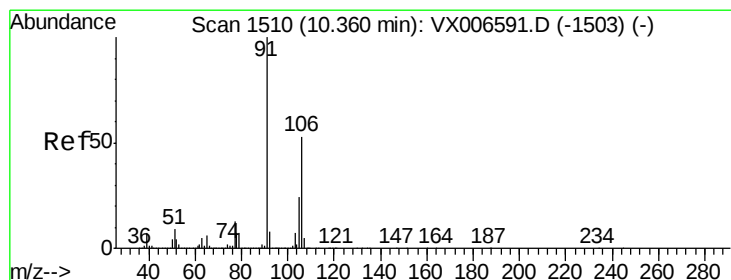
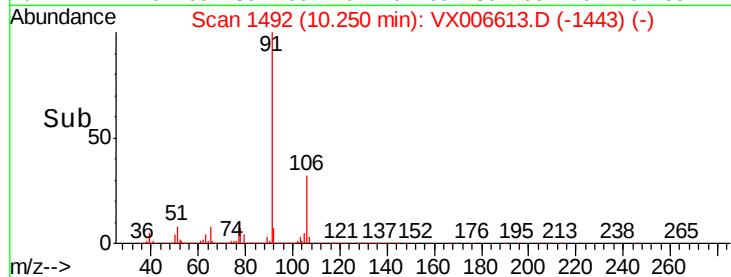
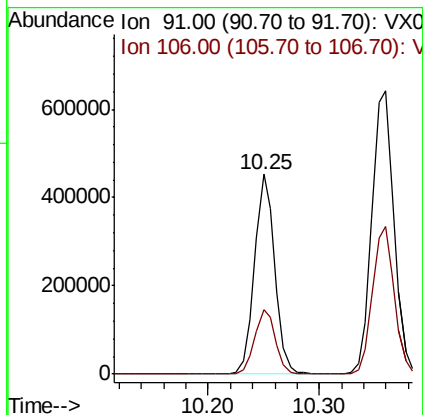
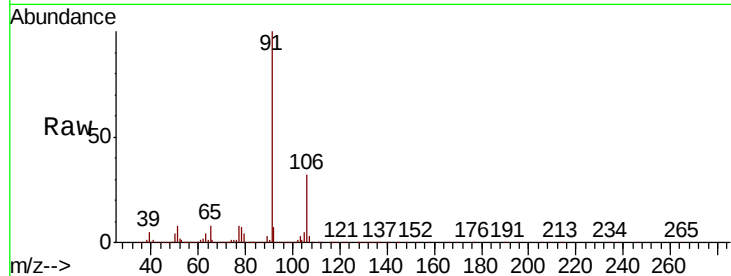
Ion Ratio Lower Upper

91 100

106 32.4 26.5 39.7

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#68

m/p-Xylenes

Concen: 38.287 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX006613.D

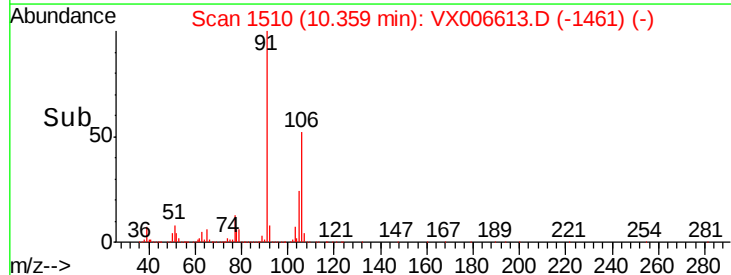
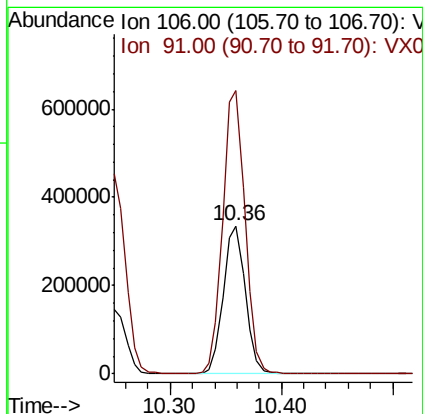
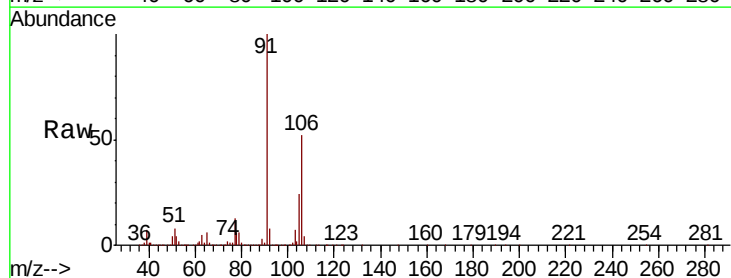
Acq: 18 Dec 2018 22:58

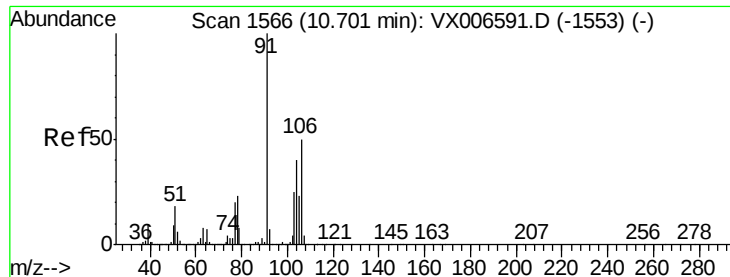
Tgt Ion: 106 Resp: 459717

Ion Ratio Lower Upper

106 100

91 194.4 155.2 232.8





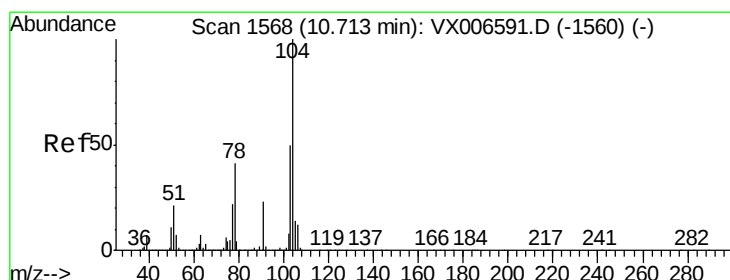
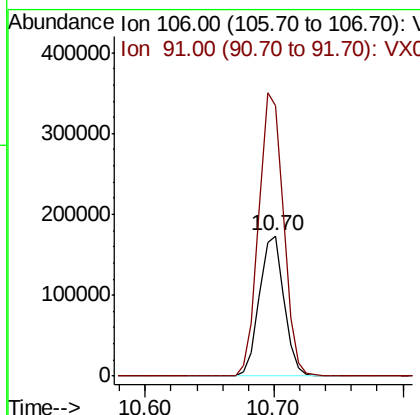
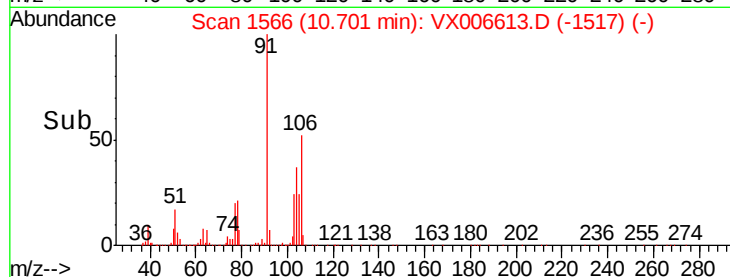
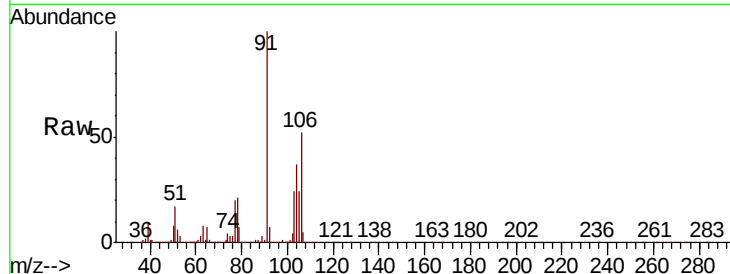
#69
o-Xylene
Concen: 19.240 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	202.7	101.8	305.6		

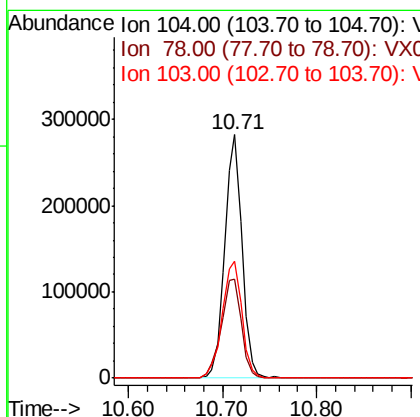
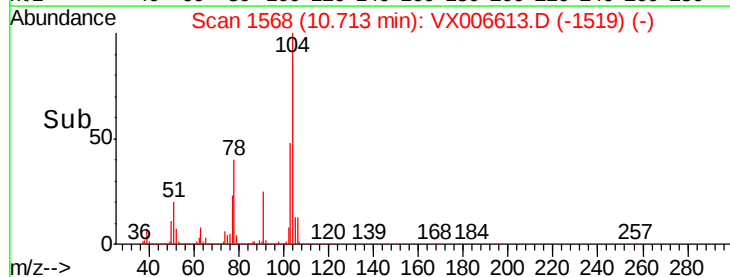
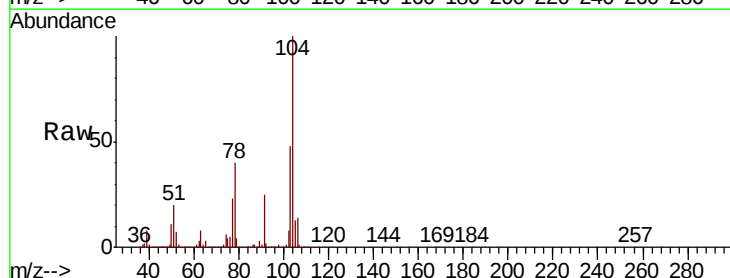
Manual Integrations
APPROVED

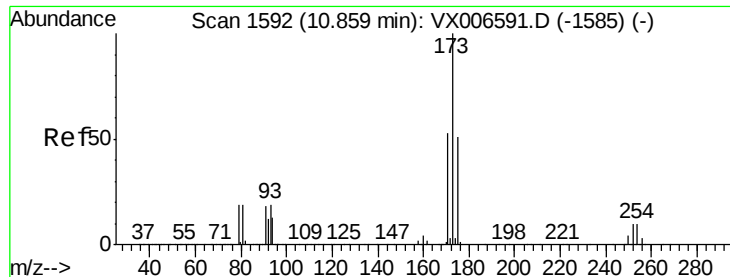
MMDadoda
12/19/2018 11:22:54 AM



#70
Styrene
Concen: 19.198 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	47.3	37.2	55.8		
103	54.9	43.5	65.3		





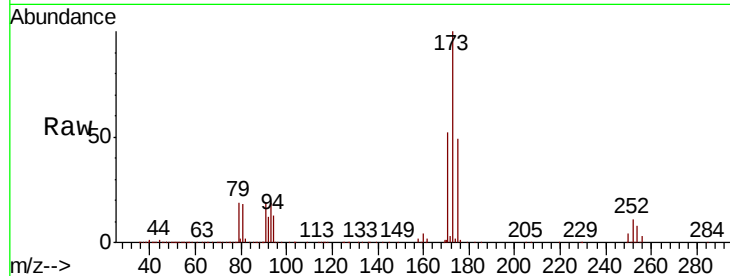
#71
Bromoform
Concen: 17.653 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.6	73.8
254	0.1	0.2	0.2#

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM

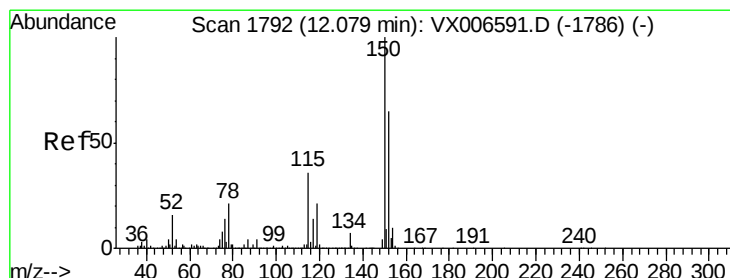
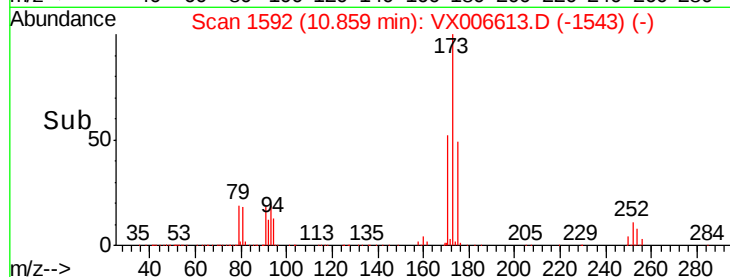
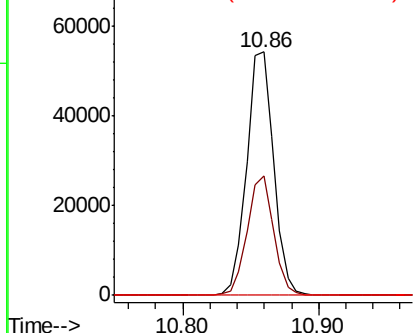


Abundance

Ion 172.70 (172.40 to 173.40): V

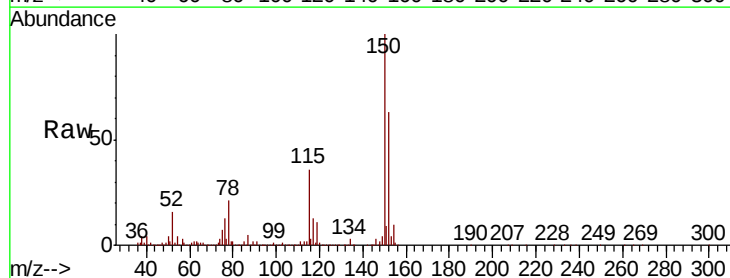
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.7	39.0	116.9
150	163.6	0.0	345.8

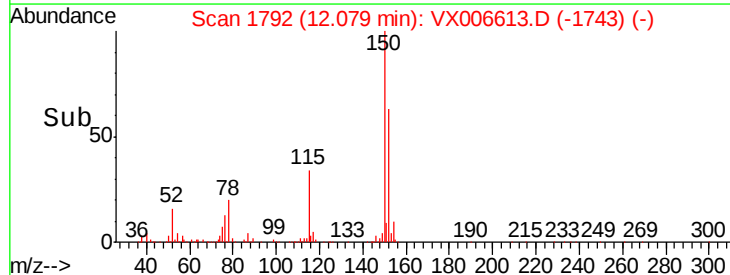
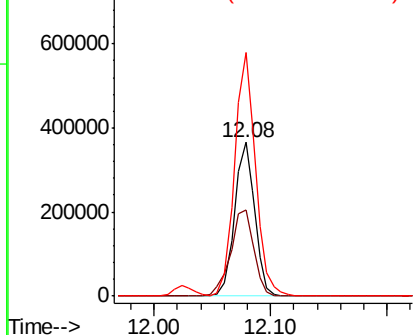


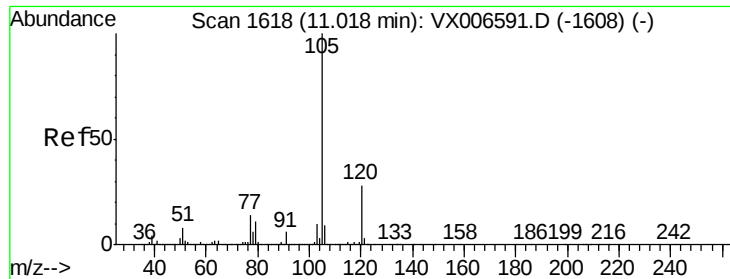
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.701 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 105 Resp: 593664

Ion Ratio Lower Upper

105 100

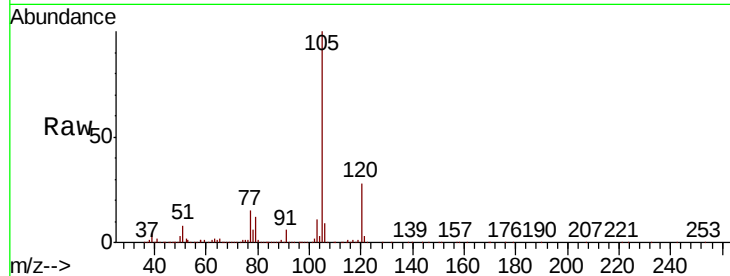
120 27.8 14.1 42.3

Manual Integrations

APPROVED

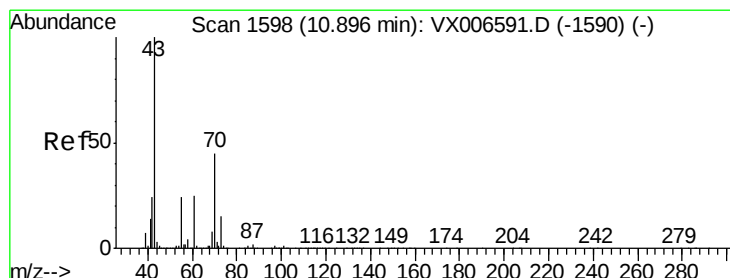
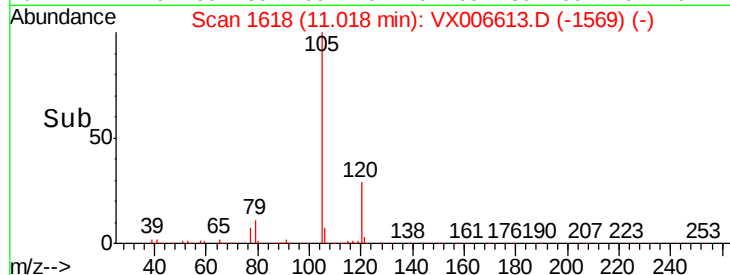
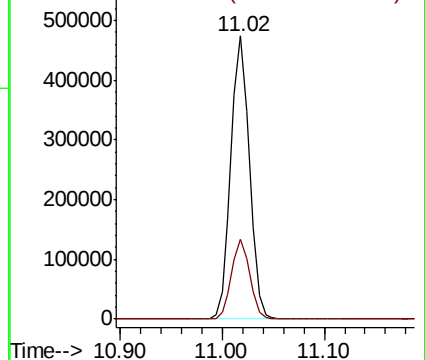
MMDadoda

12/19/2018 11:22:54 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.430 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion: 43 Resp: 209583

Ion Ratio Lower Upper

43 100

70 45.6 34.1 51.1

55 24.7 17.8 26.8

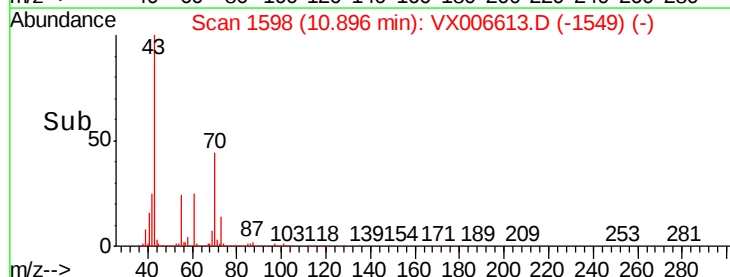
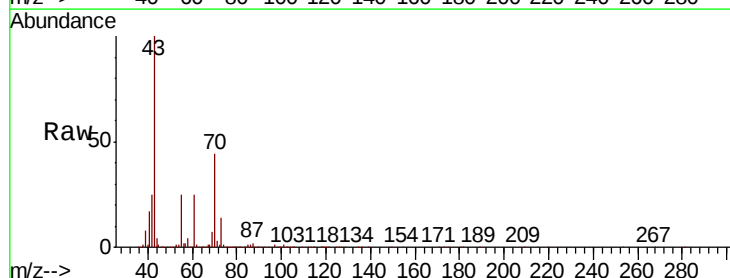
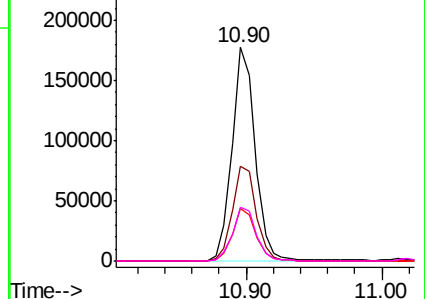
61 26.0 19.7 29.5

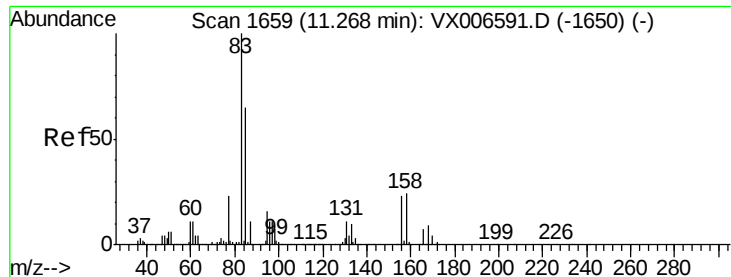
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.763 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

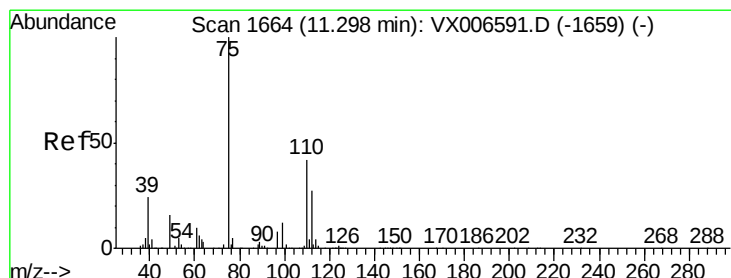
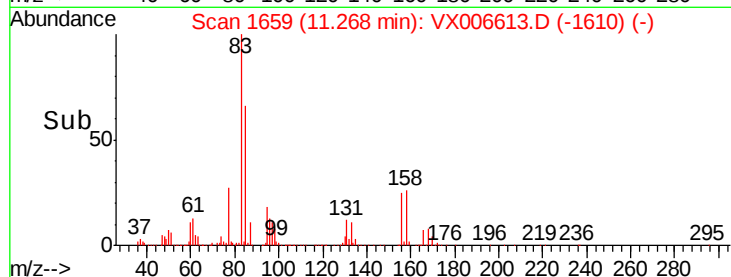
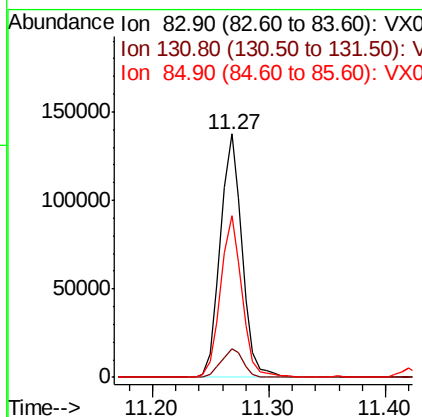
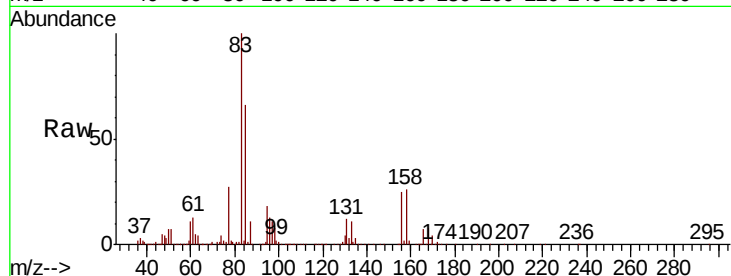
ClientSampleId :

VX1218WBSD02

Tot Ion:	83	Resp:	177119
Ion Ratio	Lower	Upper	
83	100		
131	11.9	5.7	17.1
85	65.0	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#76

1,2,3-Trichloropropane

Concen: 21.357 ug/l m

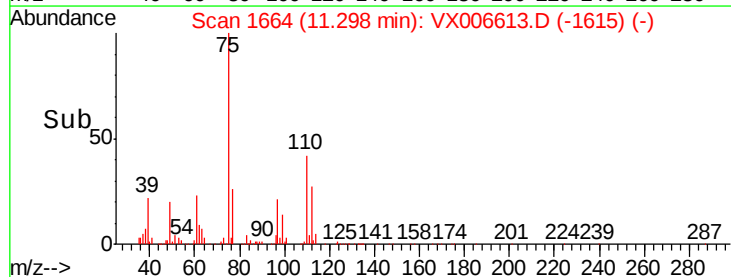
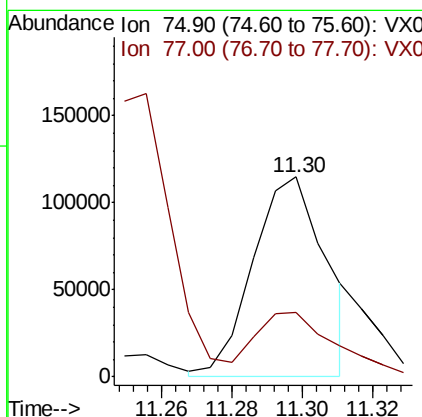
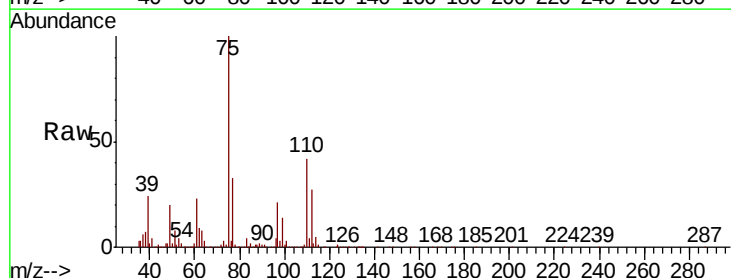
RT: 11.30 min Scan# 1664

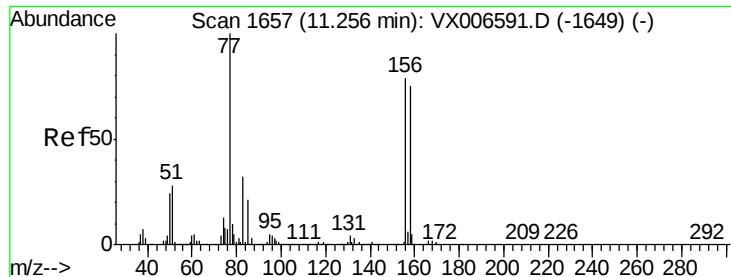
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	75	Resp:	164878
Ion Ratio	Lower	Upper	
75	100		
77	35.7	19.9	59.7





#77

Bromobenzene

Concen: 19.328 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

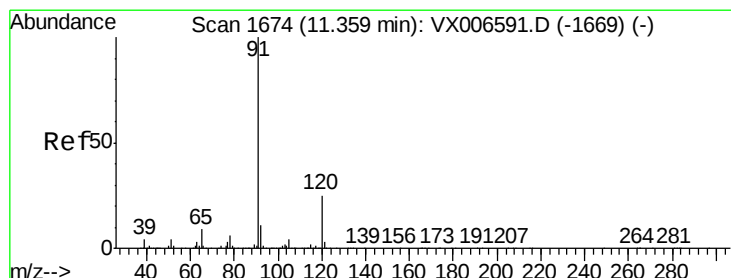
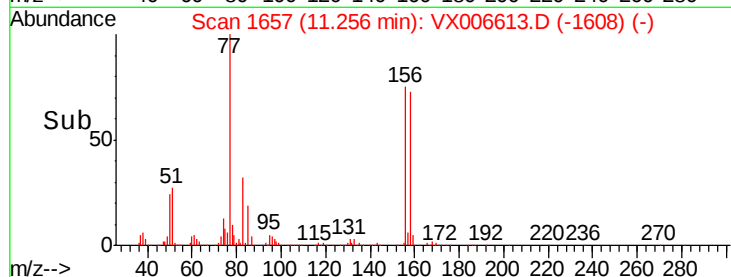
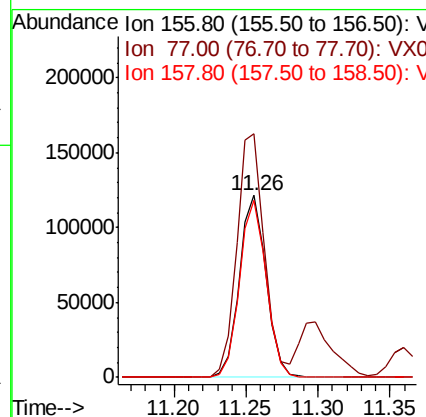
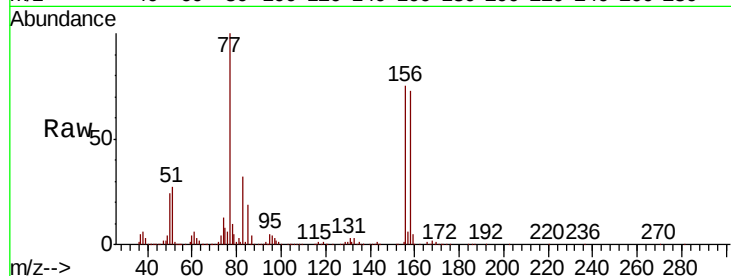
ClientSampleId :

VX1218WBSD02

Tot Ion:	156	Resp:	157468
Ion Ratio	Lower	Upper	
156	100		
77	138.9	66.2	198.6
158	97.1	48.8	146.4

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#78

n-propylbenzene

Concen: 19.469 ug/l

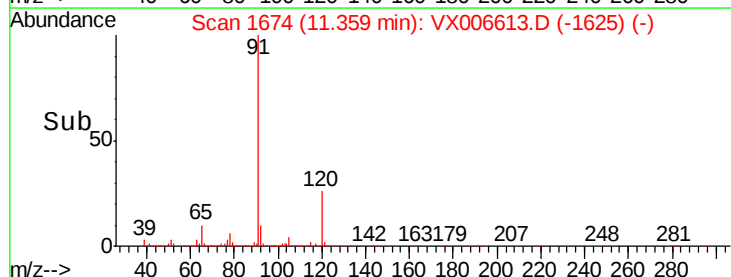
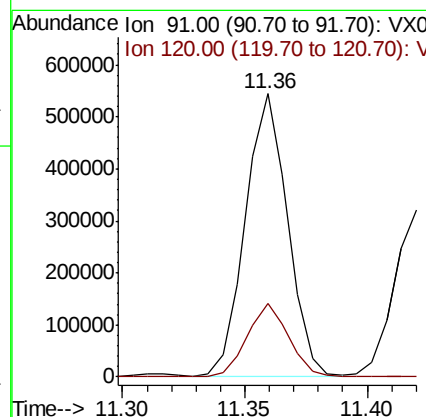
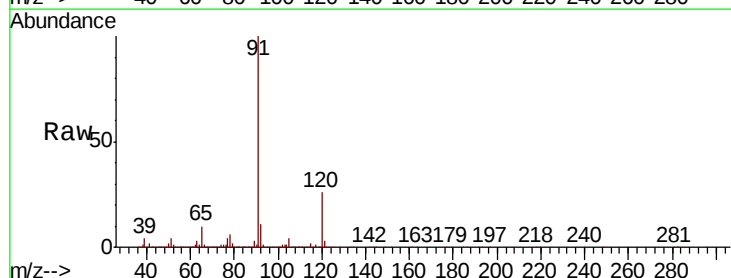
RT: 11.36 min Scan# 1674

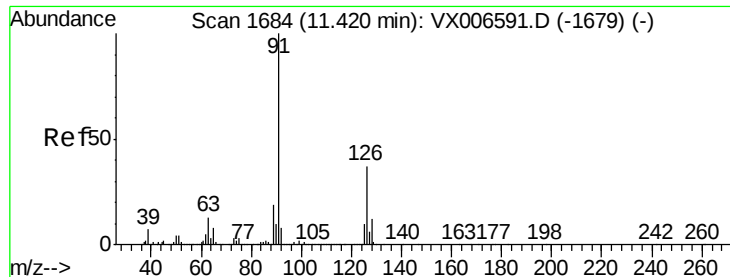
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	91	Resp:	646071
Ion Ratio	Lower	Upper	
91	100		
120	25.8	12.7	38.0





#79

2-Chlorotoluene

Concen: 19.408 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion: 91 Resp: 390287

Ion Ratio Lower Upper

91 100

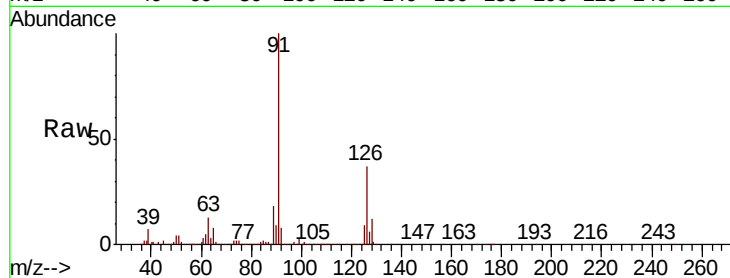
126 37.6 18.6 56.0

Manual Integrations

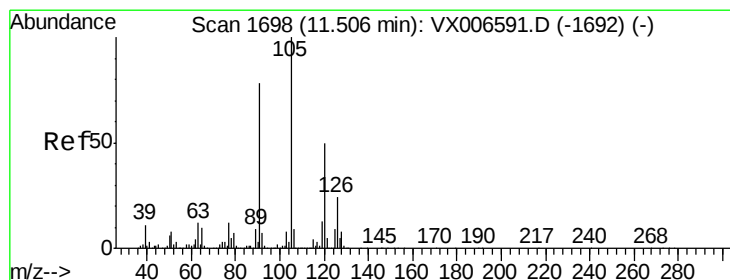
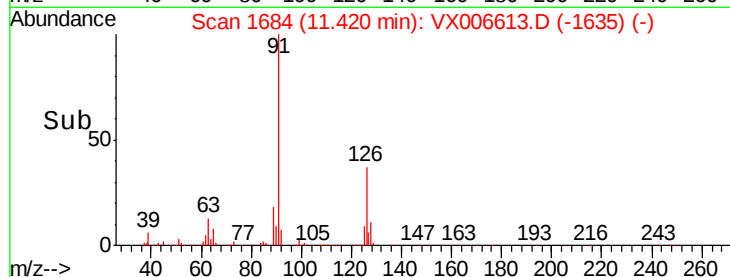
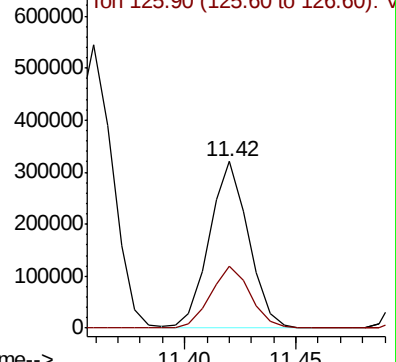
APPROVED

MMDadoda

12/19/2018 11:22:54 AM



Abundance Ion 91.00 (90.70 to 91.70): VX006591.D (-1679) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.793 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX006613.D

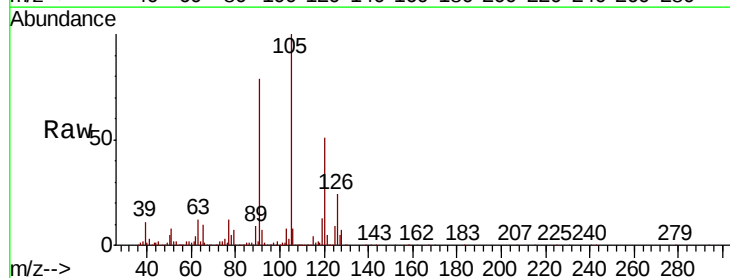
Acq: 18 Dec 2018 22:58

Tgt Ion: 105 Resp: 491263

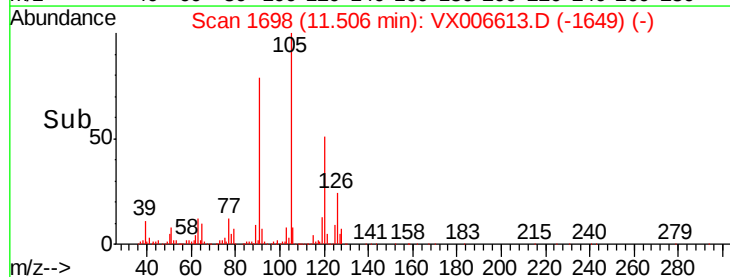
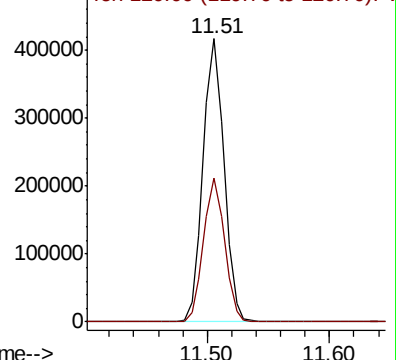
Ion Ratio Lower Upper

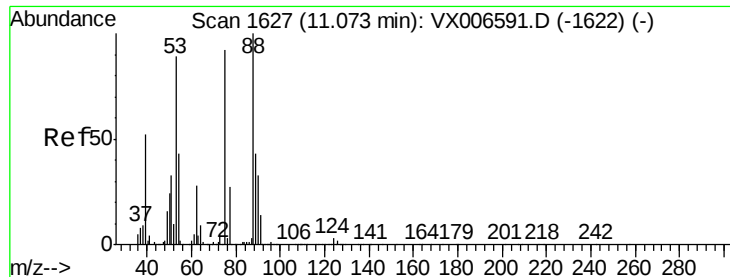
105 100

120 51.0 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): VX006591.D (-1692) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 16.055 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

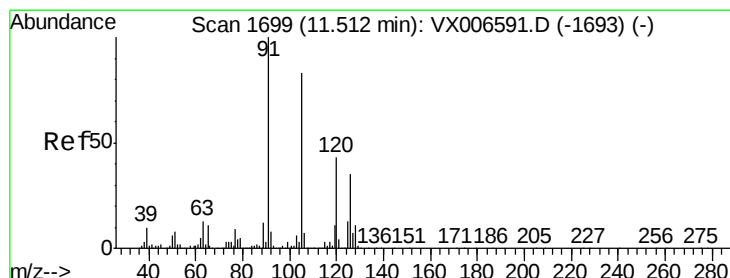
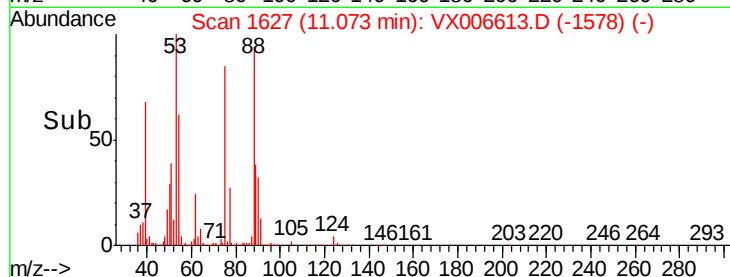
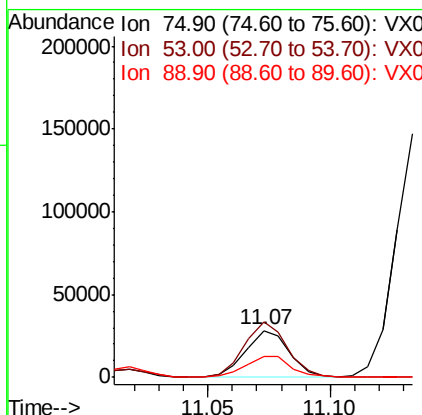
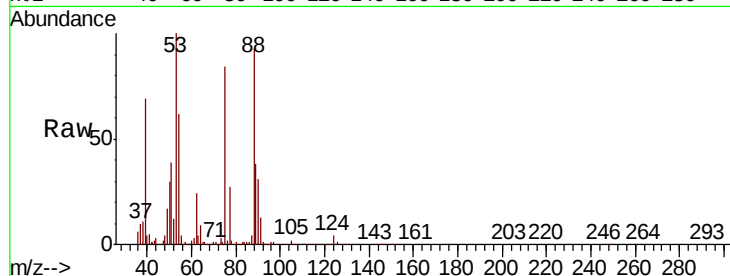
ClientSampleId :

VX1218WBSD02

Tot Ion:	75	Resp:	34743
Ion Ratio	Lower	Upper	
75	100		
53	118.3	64.4	96.6#
89	47.2	44.2	66.4

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#82

4-Chlorotoluene

Concen: 19.500 ug/l

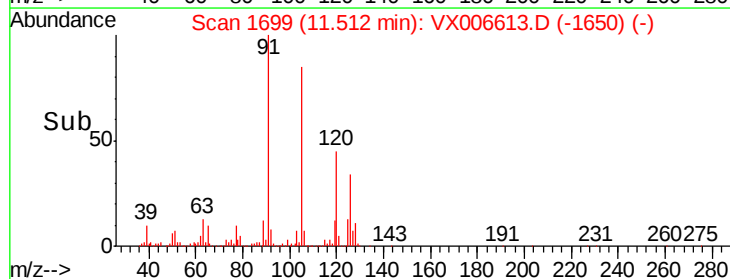
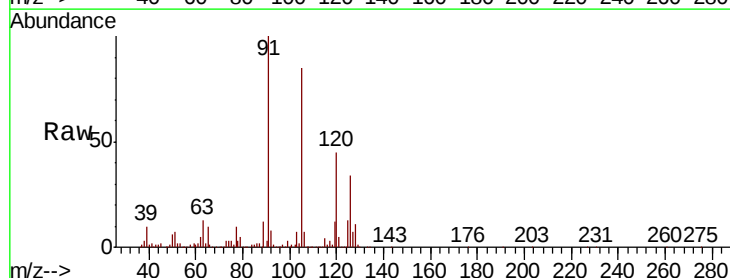
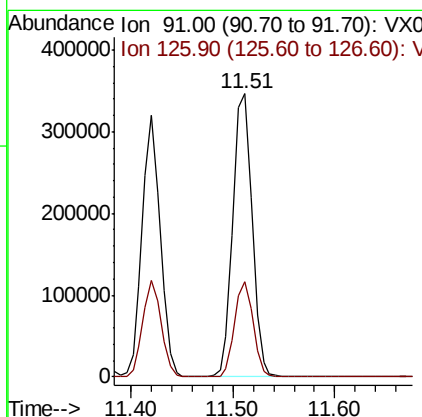
RT: 11.51 min Scan# 1699

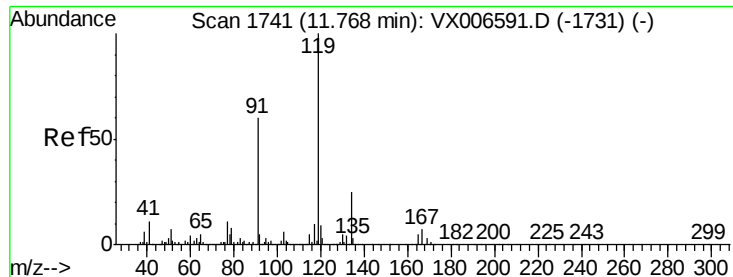
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	91	Resp:	449819
Ion Ratio	Lower	Upper	
91	100		
126	32.1	16.4	49.4





#83

tert-Butylbenzene

Concen: 19.312 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

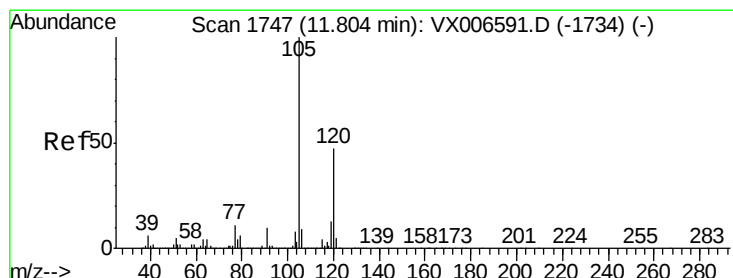
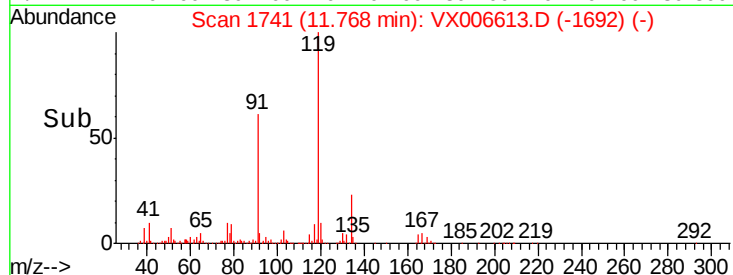
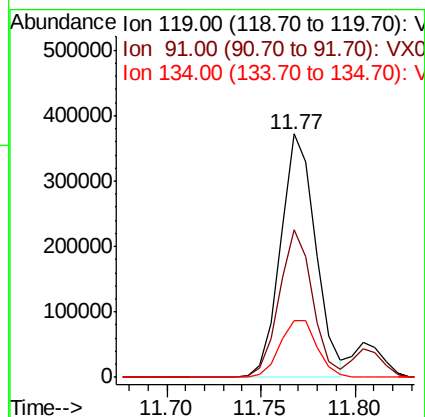
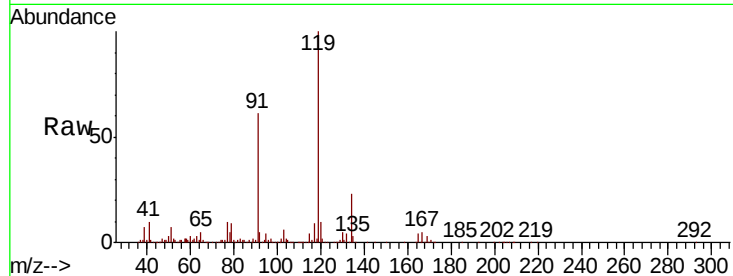
ClientSampleId :

VX1218WBSD02

Tot Ion:	119	Resp:	479734
Ion Ratio	Lower	Upper	
119	100		
91	57.7	26.4	79.2
134	24.9	11.6	34.7

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#84

1,2,4-Trimethylbenzene

Concen: 19.471 ug/l

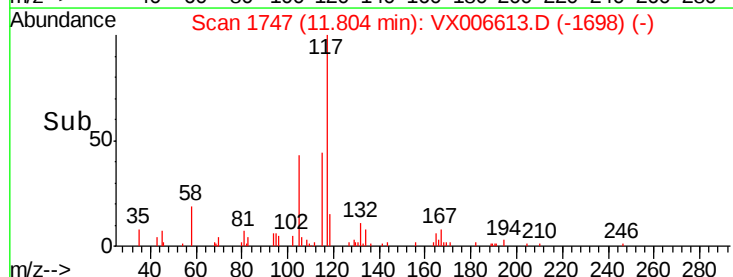
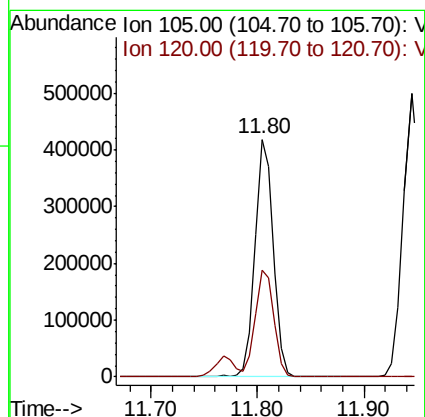
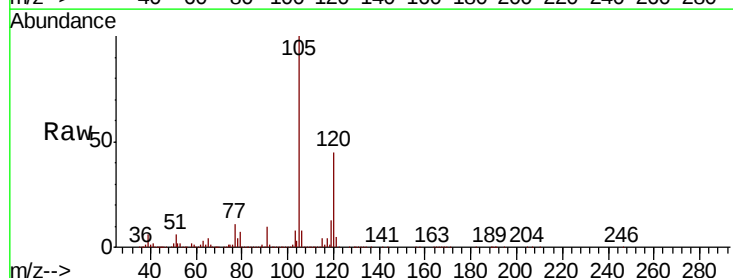
RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	105	Resp:	508331
Ion Ratio	Lower	Upper	
105	100		
120	45.6	23.4	70.0





#85

sec-Butylbenzene

Concen: 19.452 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBSD02

Tot Ion:105 Resp: 592458

Ion Ratio Lower Upper

105 100

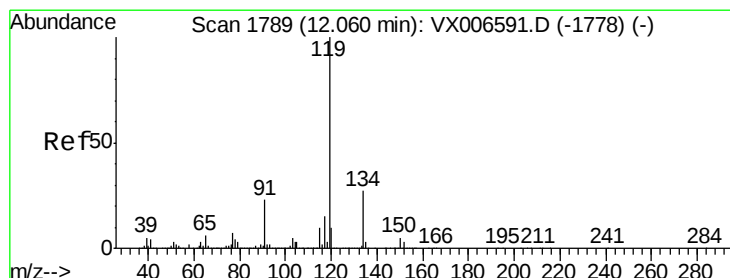
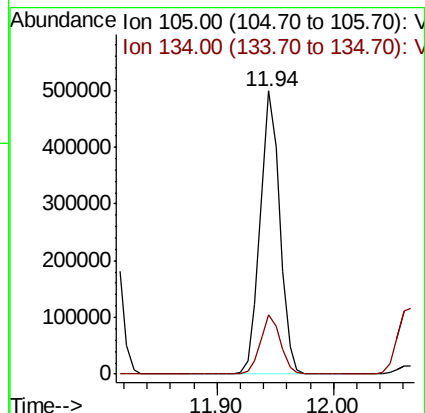
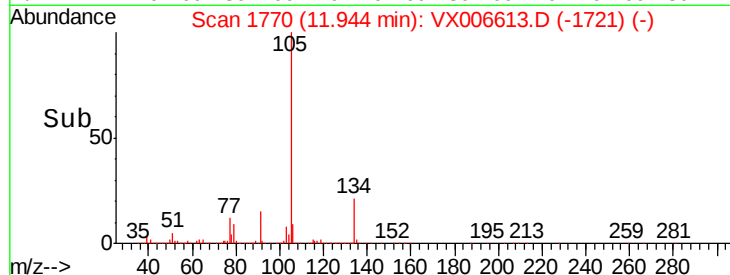
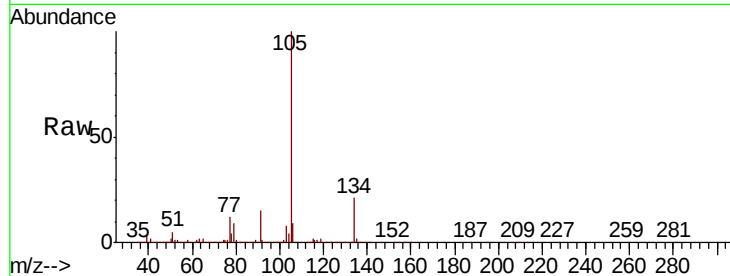
134 21.1 10.8 32.4

Manual Integrations

APPROVED

MMDadoda

12/19/2018 11:22:54 AM



#86

p-Isopropyltoluene

Concen: 19.673 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

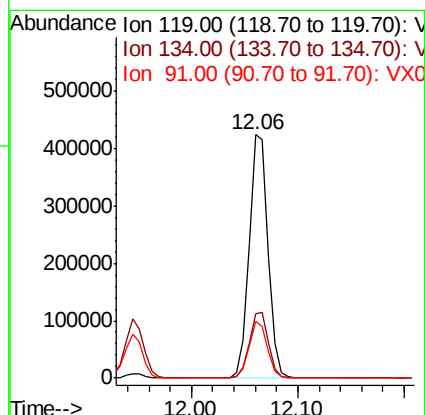
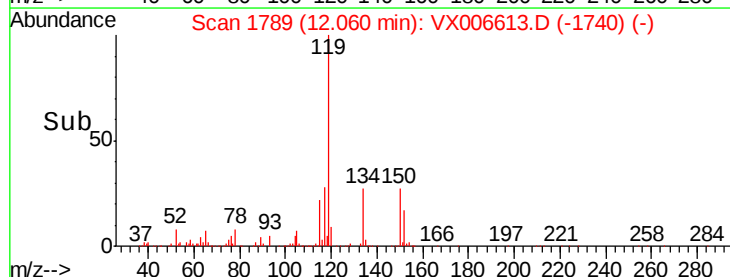
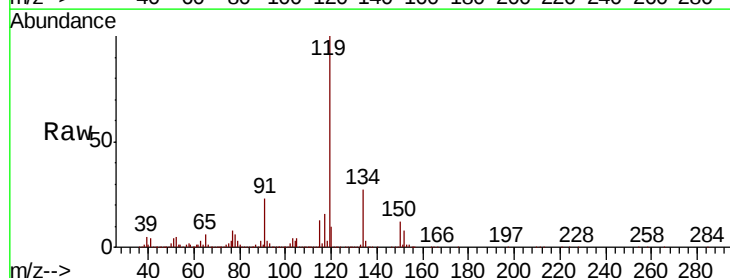
Tgt Ion:119 Resp: 526706

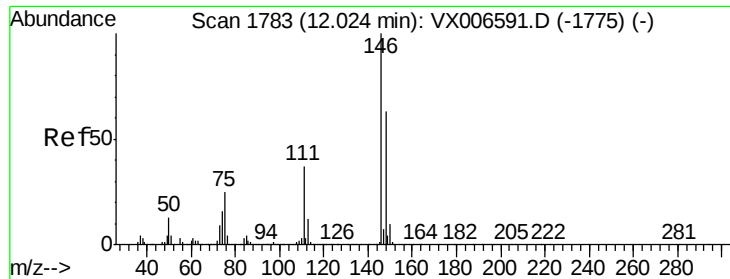
Ion Ratio Lower Upper

119 100

134 27.4 13.9 41.6

91 22.7 11.3 33.8





#87

1,3-Dichlorobenzene

Concen: 19.245 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

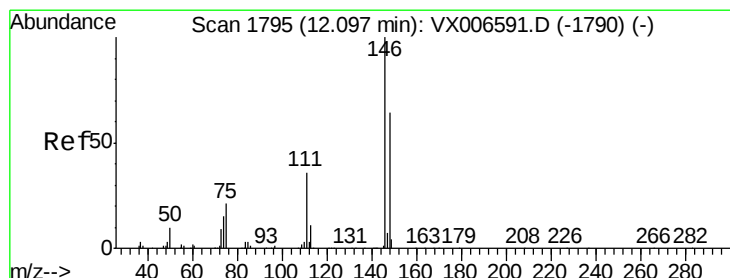
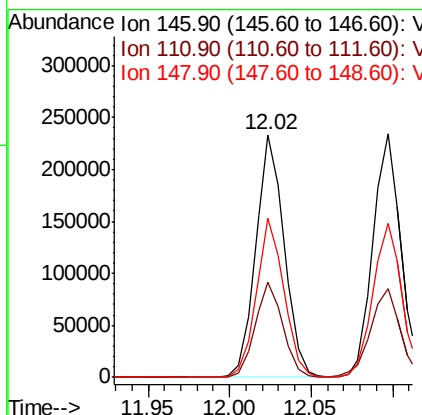
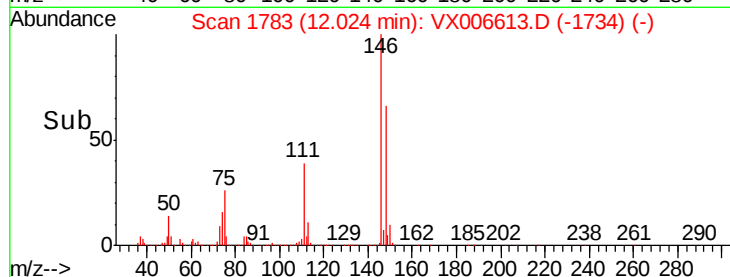
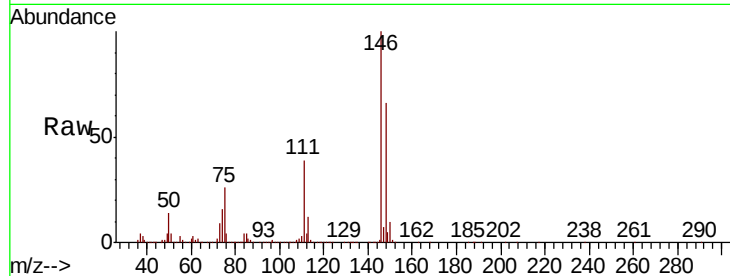
ClientSampleId :

VX1218WBSD02

Tot Ion:	146	Resp:	282567
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.4	55.2
148	63.7	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#88

1,4-Dichlorobenzene

Concen: 18.501 ug/l

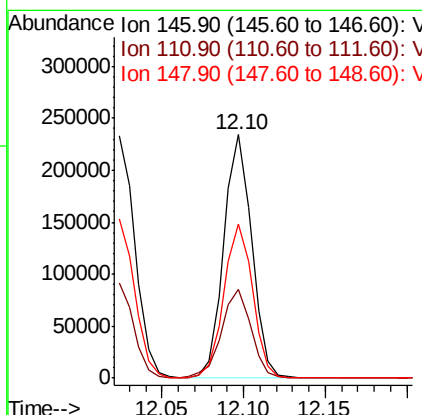
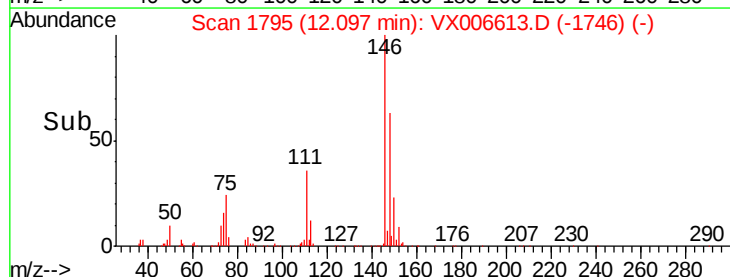
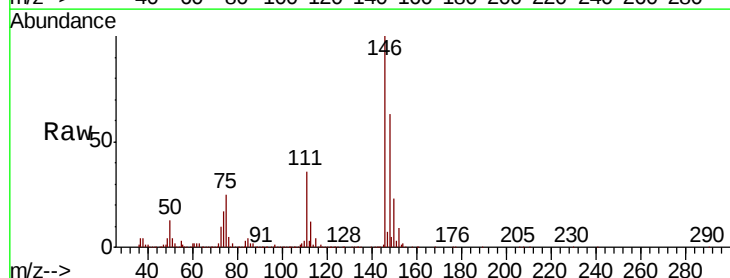
RT: 12.10 min Scan# 1795

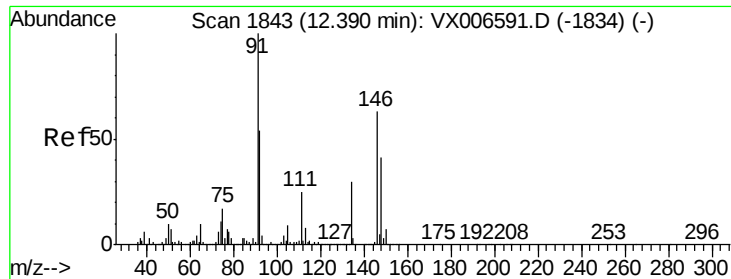
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	146	Resp:	278811
Ion Ratio	Lower	Upper	
146	100		
111	38.8	18.3	54.8
148	65.3	31.9	95.9





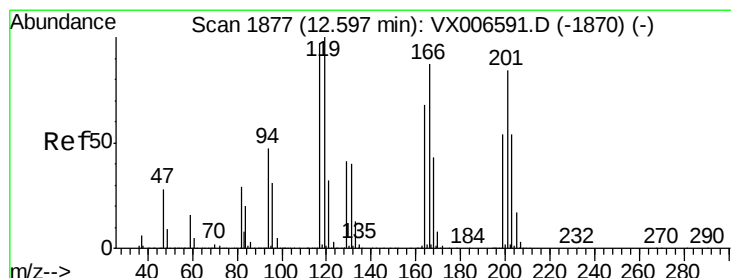
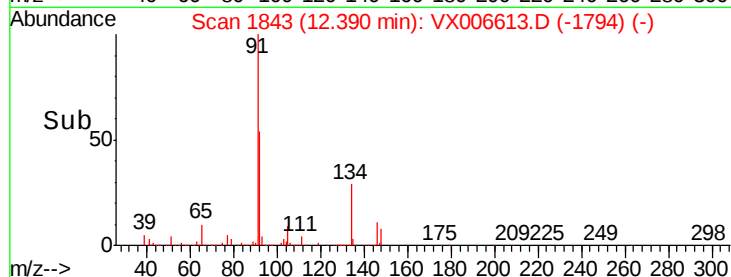
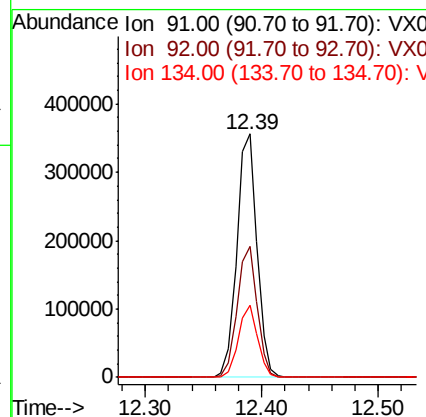
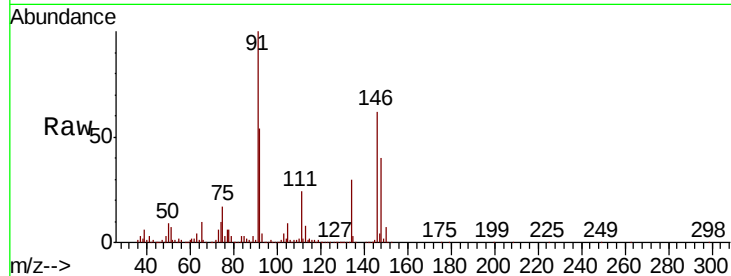
#89
n-Butylbenzene
Concen: 18.867 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.8
134	28.6	14.8	44.3

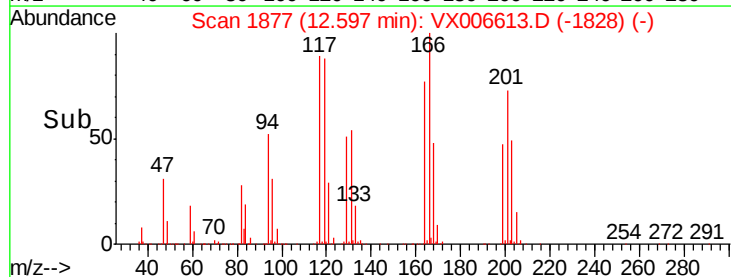
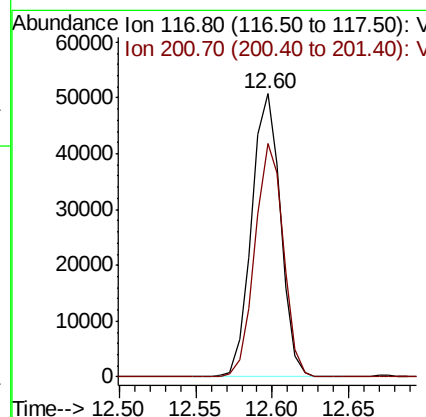
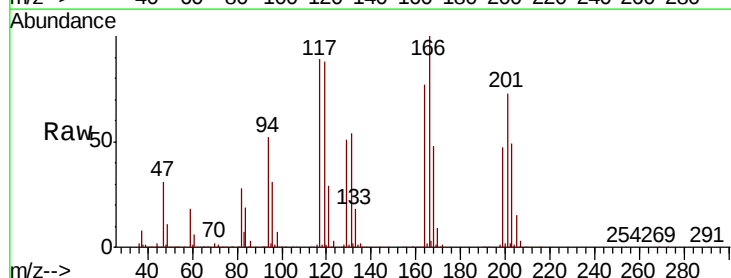
Manual Integrations
APPROVED

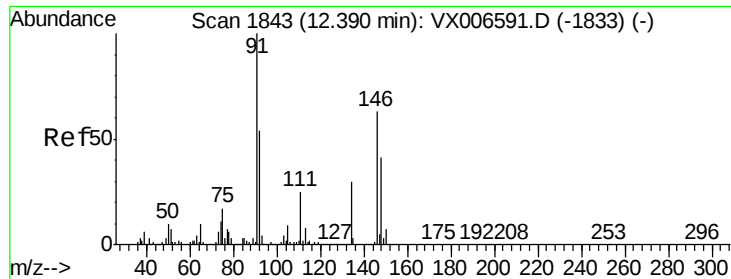
MMDadoda
12/19/2018 11:22:54 AM



#90
Hexachloroethane
Concen: 18.185 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX006613.D
Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.0	44.7	134.1





#91

1,2-Dichlorobenzene

Concen: 19.124 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

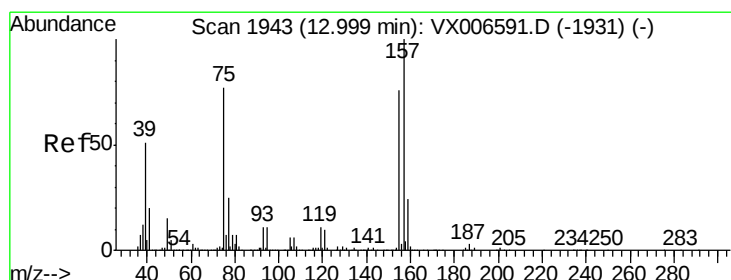
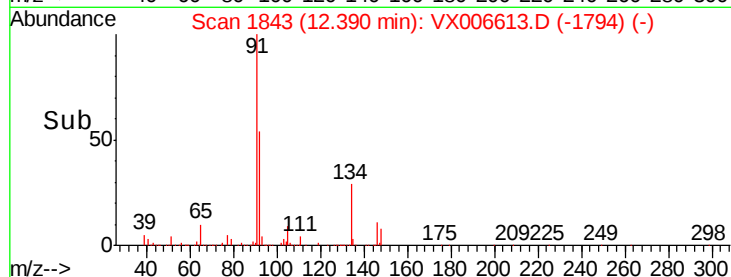
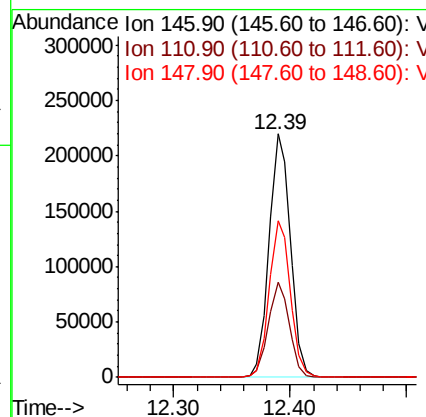
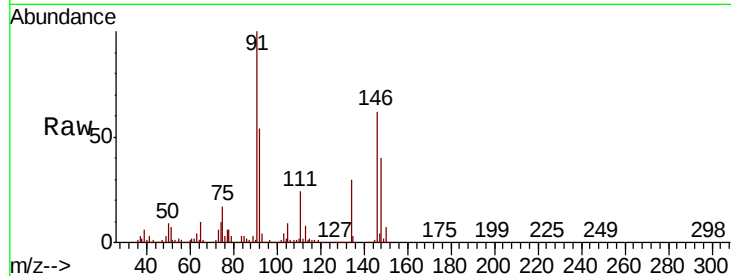
ClientSampleId :

VX1218WBSD02

Tot Ion:	146	Resp:	280896
Ion Ratio	Lower	Upper	
146	100		
111	38.6	19.1	57.3
148	64.0	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.850 ug/l

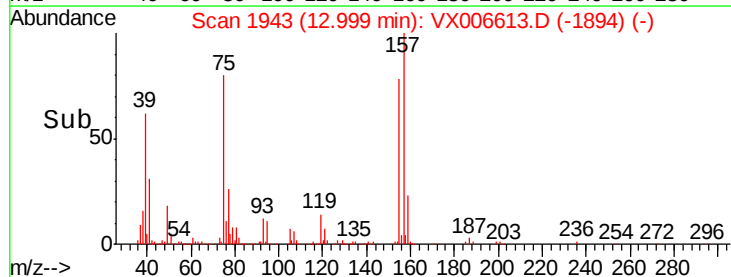
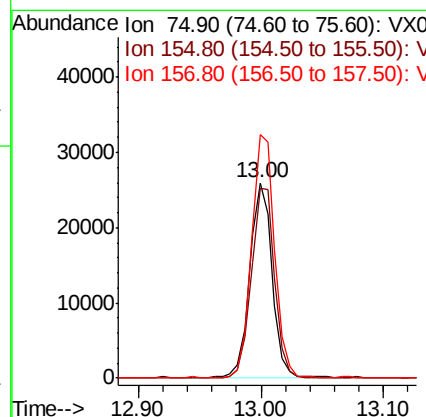
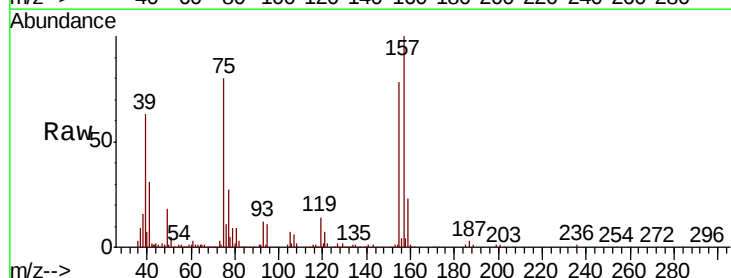
RT: 13.00 min Scan# 1943

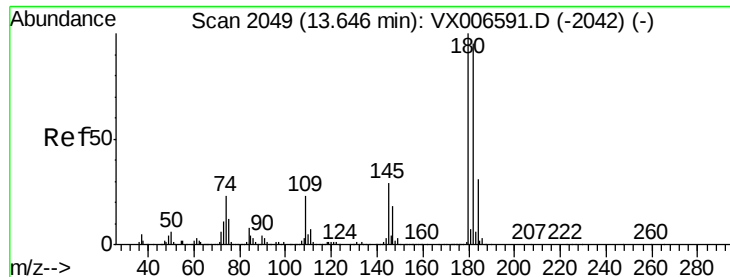
Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	75	Resp:	33101
Ion Ratio	Lower	Upper	
75	100		
155	100.7	53.4	160.3
157	127.7	68.0	203.8





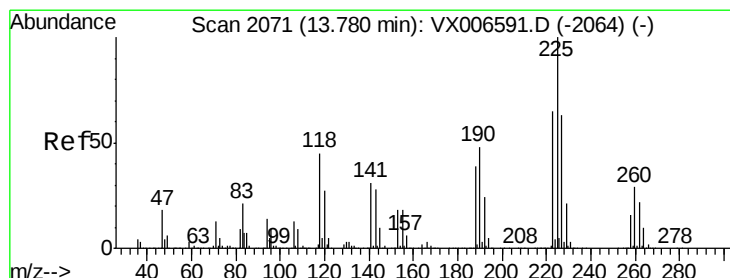
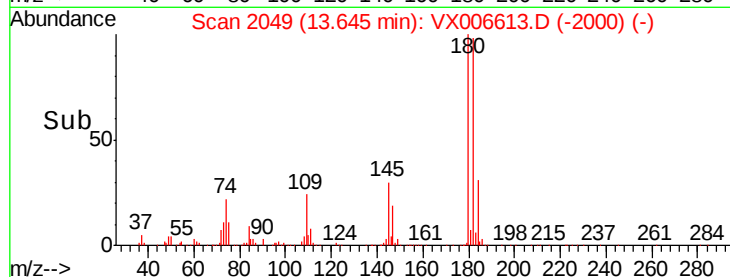
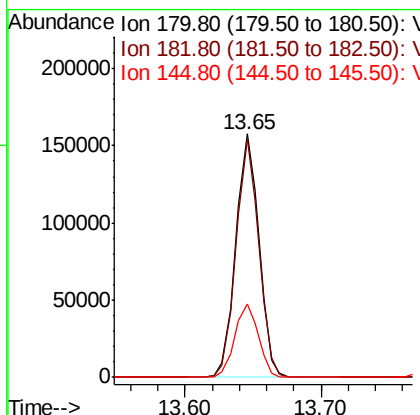
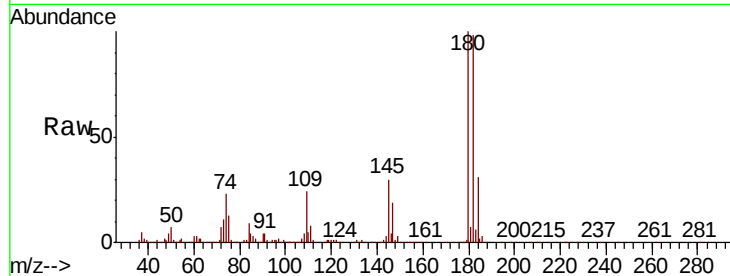
#93
 1,2,4-Trichlorobenzene
 Concen: 18.434 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	186763		
182	96.1	47.3	141.9	
145	30.6	14.6	43.8	

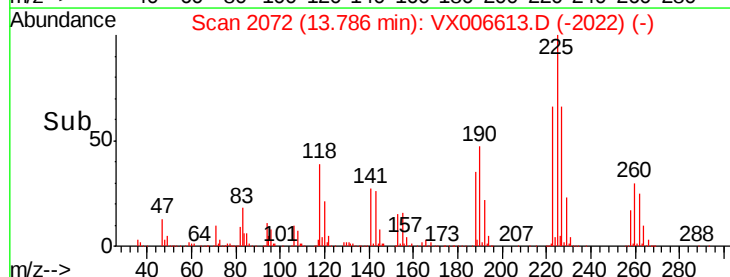
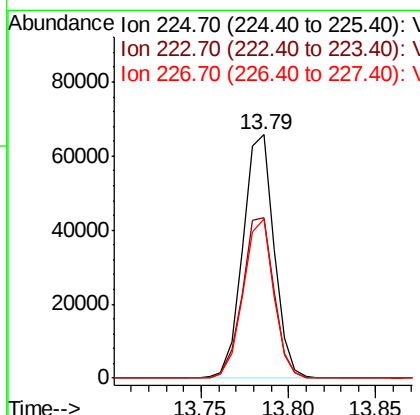
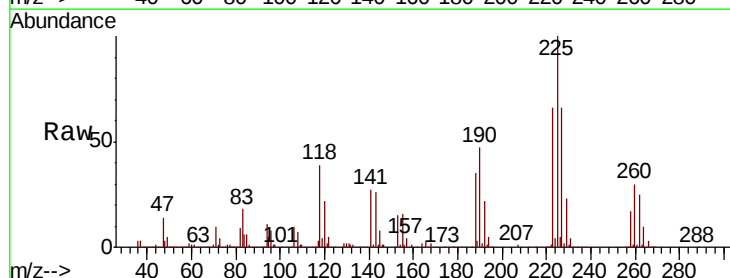
Manual Integrations
 APPROVED

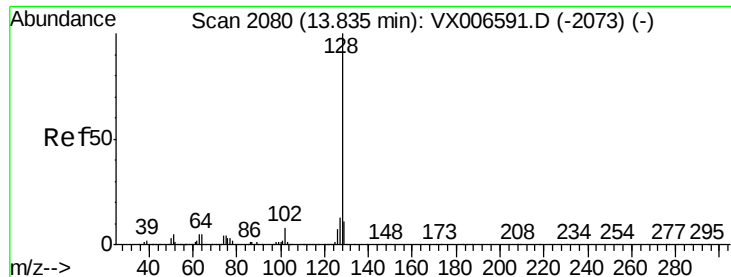
MMDadoda
 12/19/2018 11:22:54 AM



#94
 Hexachlorobutadiene
 Concen: 17.078 ug/l
 RT: 13.79 min Scan# 2072
 Delta R.T. 0.01 min
 Lab File: VX006613.D
 Acq: 18 Dec 2018 22:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	81557		
223	66.8	31.2	93.6	
227	64.2	31.9	95.5	





#95

Naphthalene

Concen: 19.015 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Instrument :

MSVOA_X

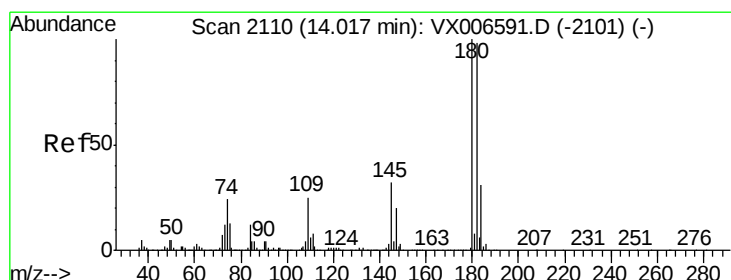
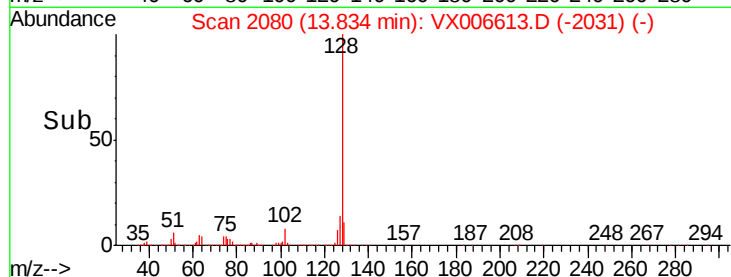
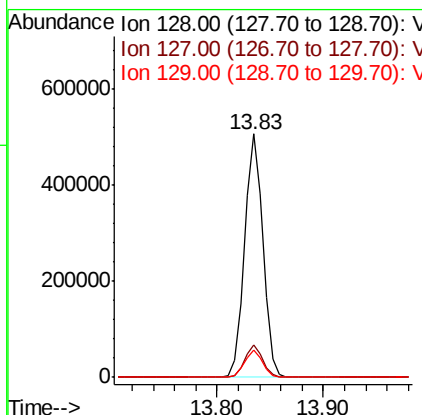
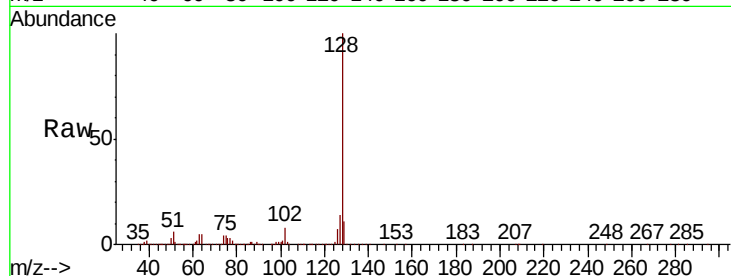
ClientSampleId :

VX1218WBSD02

Tot Ion:	128	Resp:	614886
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.4
129	10.9	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
12/19/2018 11:22:54 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.745 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX006613.D

Acq: 18 Dec 2018 22:58

Tgt Ion:	180	Resp:	196089
Ion Ratio	Lower	Upper	
180	100		
182	93.3	48.4	145.2
145	31.3	15.6	46.8

