

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121118\
 Data File : VX006424.D
 Acq On : 11 Dec 2018 16:51
 Operator : JC/MD
 Sample : VX1211WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 10:40:16 AM

Quant Time: Dec 12 05:49:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	627764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	954848	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	862782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	447680	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	336588	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
35) Dibromofluoromethane	5.51	113	315471	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
50) Toluene-d8	8.71	98	1150613	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
62) 4-Bromofluorobenzene	11.13	95	442923	52.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	123708	20.126	ug/l	99
3) Chloromethane	1.33	50	119055	18.848	ug/l	97
4) Vinyl Chloride	1.41	62	131285	19.312	ug/l	95
5) Bromomethane	1.64	94	97496	20.694	ug/l	99
6) Chloroethane	1.72	64	84633	20.304	ug/l	98
7) Trichlorofluoromethane	1.93	101	203971	19.546	ug/l	95
8) Diethyl Ether	2.19	74	81091	20.532	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	118982	20.052	ug/l	99
10) Methyl Iodide	2.51	142	123133	13.770	ug/l	99
11) Tert butyl alcohol	3.07	59	183044	104.443	ug/l	99
12) 1,1-Dichloroethene	2.38	96	112398	19.787	ug/l	91
13) Acrolein	2.29	56	95228	99.414	ug/l	99
14) Allyl chloride	2.73	41	199296	17.761	ug/l	98
15) Acrylonitrile	3.15	53	363642	99.432	ug/l	99
16) Acetone	2.45	43	307416	102.218	ug/l	96
17) Carbon Disulfide	2.57	76	274299	15.671	ug/l	100
18) Methyl Acetate	2.78	43	210853	20.965	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	411764	20.320	ug/l	97
20) Methylene Chloride	2.86	84	129481	20.230	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	118867	19.636	ug/l	96
22) Diisopropyl ether	3.87	45	363638	20.748	ug/l	94
23) Vinyl Acetate	3.82	43	1464565	97.972	ug/l	100
24) 1,1-Dichloroethane	3.70	63	209131	20.876	ug/l	99
25) 2-Butanone	4.70	43	452848	105.529	ug/l	99
26) 2,2-Dichloropropane	4.59	77	163237	17.656	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	143757	21.290	ug/l	95
28) Bromochloromethane	5.02	49	95228	21.763	ug/l	99
29) Tetrahydrofuran	5.15	42	300057	100.610	ug/l	98
30) Chloroform	5.21	83	216261	20.542	ug/l	96
31) Cyclohexane	5.57	56	174676	18.867	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	197196	19.687	ug/l	99
36) 1,1-Dichloropropene	5.79	75	154442	19.207	ug/l	99
37) Ethyl Acetate	4.85	43	171203	19.013	ug/l	98
38) Carbon Tetrachloride	5.79	117	170060	17.978	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121118\
 Data File : VX006424.D
 Acq On : 11 Dec 2018 16:51
 Operator : JC/MD
 Sample : VX1211WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1211WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 10:40:16 AM

Quant Time: Dec 12 05:49:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	193141	18.505	ug/l	98
40) Benzene	6.14	78	483961	20.096	ug/l	98
41) Methacrylonitrile	5.06	41	95423	19.259	ug/l	97
42) 1,2-Dichloroethane	6.20	62	162879	20.665	ug/l	99
43) Isopropyl Acetate	6.46	43	277800	18.504	ug/l	99
44) Trichloroethene	7.21	130	141914	19.452	ug/l	98
45) 1,2-Dichloropropane	7.51	63	123512	20.179	ug/l	99
46) Dibromomethane	7.66	93	87539	19.803	ug/l	96
47) Bromodichloromethane	7.90	83	155268	18.138	ug/l	98
48) Methyl methacrylate	7.77	41	138469	18.958	ug/l	98
49) 1,4-Dioxane	7.75	88	74770	415.358	ug/l	99
51) 4-Methyl-2-Pentanone	8.65	43	877572	100.410	ug/l	97
52) Toluene	8.79	92	317546	20.042	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	170193	17.000	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	186127	17.904	ug/l	99
55) 1,1,2-Trichloroethane	9.21	97	135677	21.078	ug/l	99
56) Ethyl methacrylate	9.18	69	199484	19.824	ug/l	97
57) 1,3-Dichloropropane	9.37	76	206930	20.330	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.31	63	473413	92.711	ug/l	100
59) 2-Hexanone	9.49	43	670089	100.353	ug/l	99
60) Dibromochloromethane	9.58	129	137091	17.272	ug/l	100
61) 1,2-Dibromoethane	9.67	107	143822	19.983	ug/l	100
64) Tetrachloroethene	9.34	164	130445	20.076	ug/l	99
65) Chlorobenzene	10.14	112	375390	20.496	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	133573	18.771	ug/l	98
67) Ethyl Benzene	10.25	91	617577	20.274	ug/l	98
68) m/p-Xylenes	10.36	106	492000	40.321	ug/l	100
69) o-Xylene	10.70	106	241846	20.066	ug/l	99
70) Styrene	10.71	104	391444	20.081	ug/l	99
71) Bromoform	10.86	173	102701	15.289	ug/l #	99
73) Isopropylbenzene	11.02	105	642961	20.797	ug/l	100
74) N-amyl acetate	10.90	43	248628	18.675	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.27	83	207945	21.024	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	191967m	22.216	ug/l	
77) Bromobenzene	11.26	156	175217	20.422	ug/l	100
78) n-propylbenzene	11.36	91	697709	20.302	ug/l	99
79) 2-Chlorotoluene	11.42	91	418188	20.473	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	540275	21.003	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.07	75	55933	15.190	ug/l	85
82) 4-Chlorotoluene	11.51	91	486168	20.472	ug/l	99
83) tert-Butylbenzene	11.77	119	564761	20.577	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	554504	20.876	ug/l	99
85) sec-Butylbenzene	11.94	105	642573	20.580	ug/l	99
86) p-Isopropyltoluene	12.06	119	576538	20.506	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	314601	20.607	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	312588	20.173	ug/l	99
89) n-Butylbenzene	12.39	91	470836	19.627	ug/l	100
90) Hexachloroethane	12.60	117	95089	16.594	ug/l	94
91) 1,2-Dichlorobenzene	12.39	146	315919	20.851	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	45271	17.855	ug/l	95

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121118\
Data File : VX006424.D
Acq On : 11 Dec 2018 16:51
Operator : JC/MD
Sample : VX1211WBSD01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM

Quant Time: Dec 12 05:49:41 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	221155	20.007	ug/l	100
94) Hexachlorobutadiene	13.78	225	98887	20.228	ug/l	99
95) Naphthalene	13.83	128	718596	20.899	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	220950	20.181	ug/l	97

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

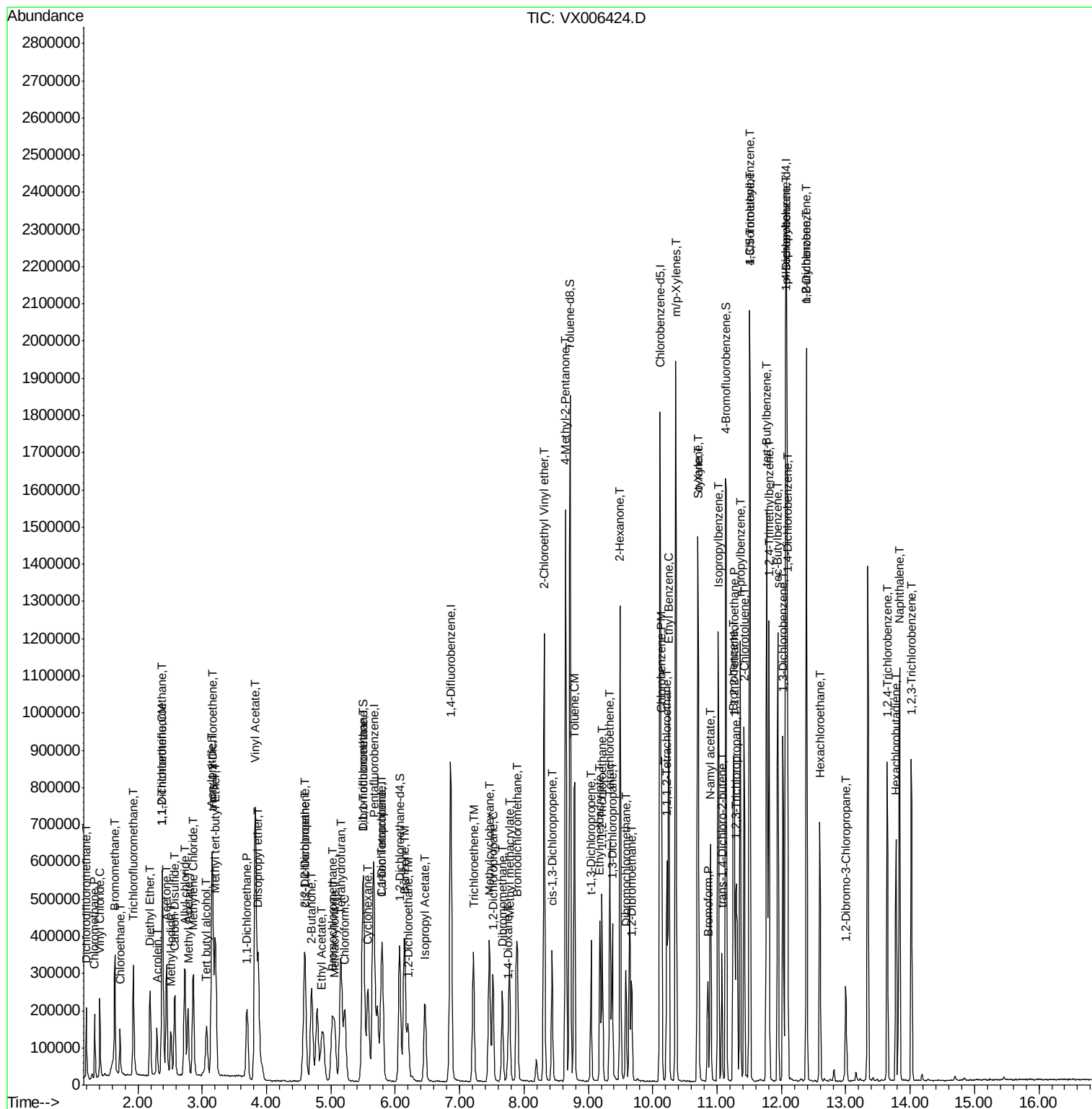
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121118\
Data File : VX006424.D
Acq On : 11 Dec 2018 16:51
Operator : JC/MD
Sample : VX1211WBSD01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 15 Sample Multiplier: 1

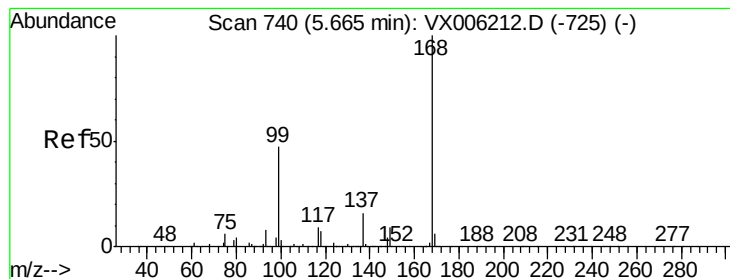
Instrument :
MSVOA_X
Client Sample ID :
VX1211WBSD01

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM

Quant Time: Dec 12 05:49:41 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion:168 Resp: 627764

Ion Ratio Lower Upper

168 100

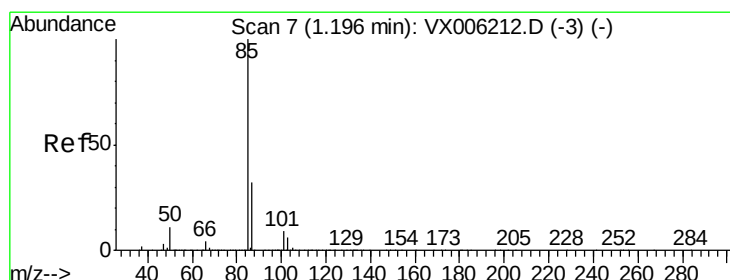
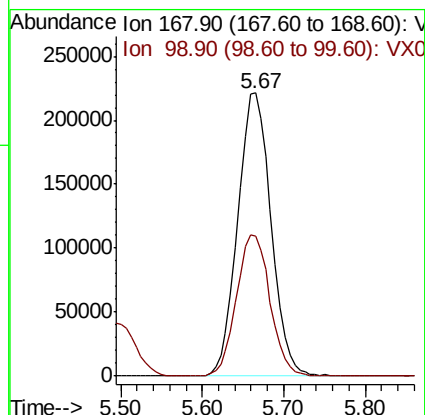
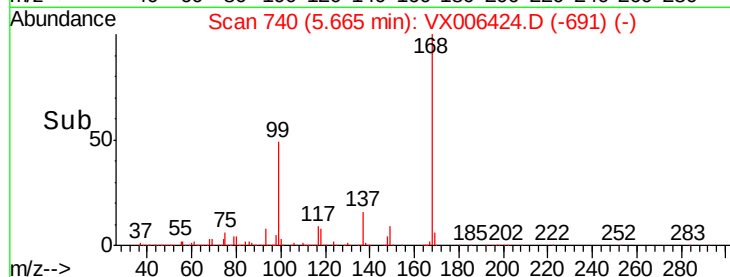
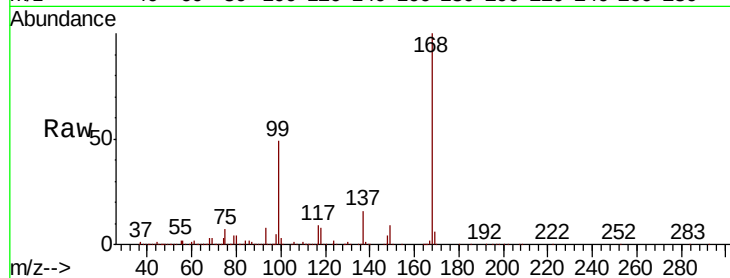
99 49.4 37.8 56.8

Manual Integrations

APPROVED

MMDadoda

12/12/2018 10:40:16 AM



#2

Dichlorodifluoromethane

Concen: 20.126 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX006424.D

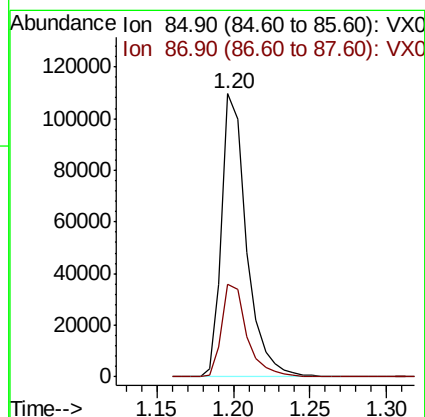
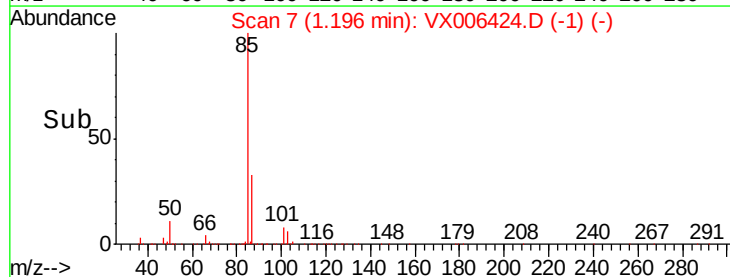
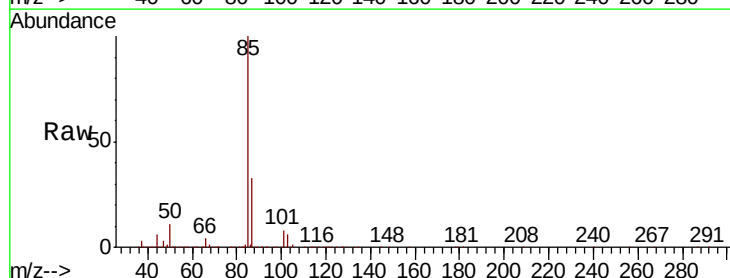
Acq: 11 Dec 2018 16:51

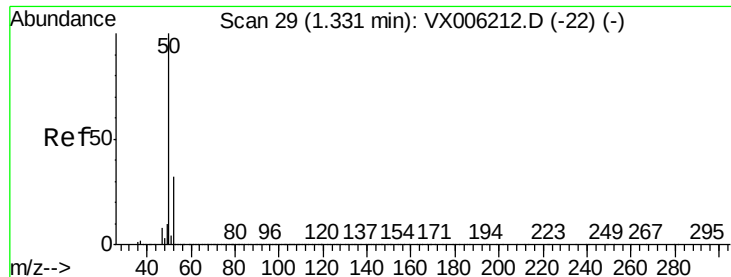
Tgt Ion: 85 Resp: 123708

Ion Ratio Lower Upper

85 100

87 32.8 16.1 48.2





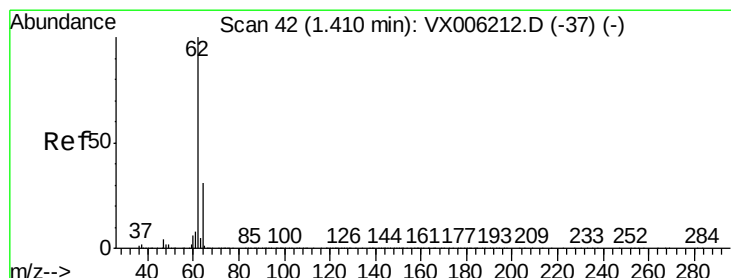
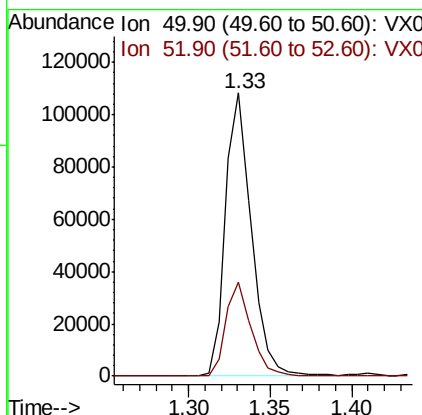
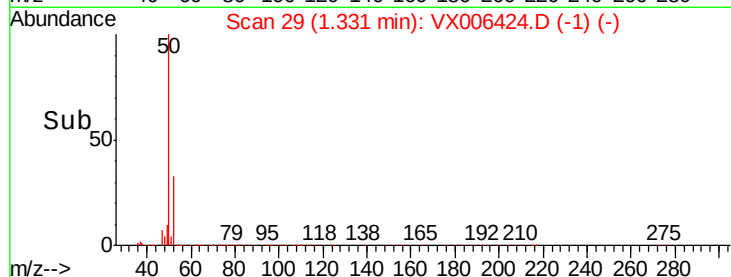
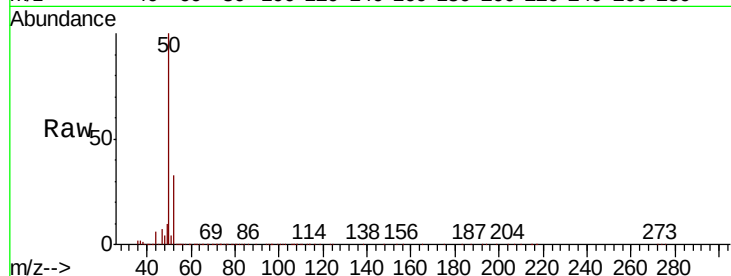
#3
Chloromethane
Concen: 18.848 ug/l
RT: 1.33 min Scan# 29
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.2	37.8

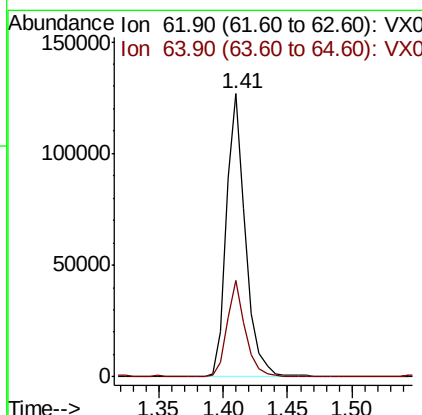
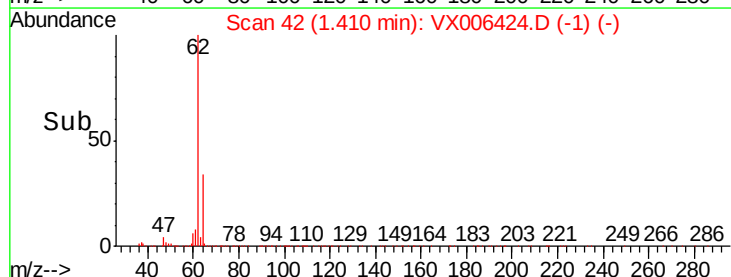
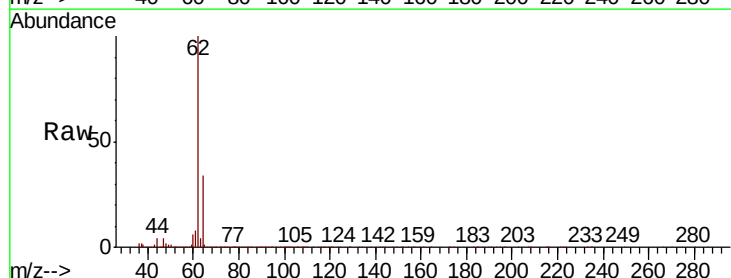
Manual Integrations
APPROVED

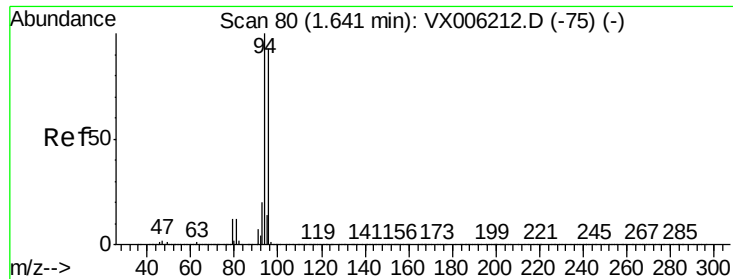
MMDadoda
12/12/2018 10:40:16 AM



#4
Vinyl Chloride
Concen: 19.312 ug/l
RT: 1.41 min Scan# 42
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
62	100		
64	33.8	24.9	37.3





#5

Bromomethane

Concen: 20.694 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 94 Resp: 97496

Ion Ratio Lower Upper

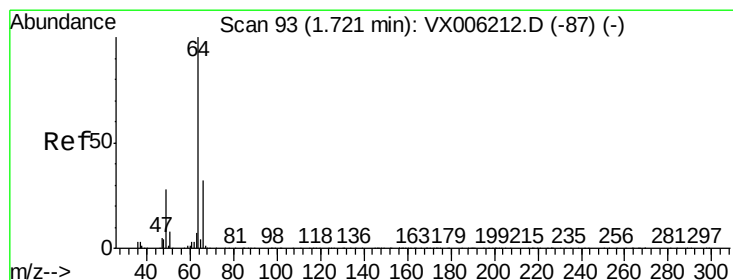
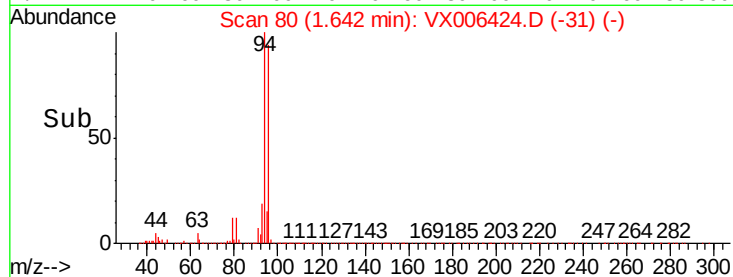
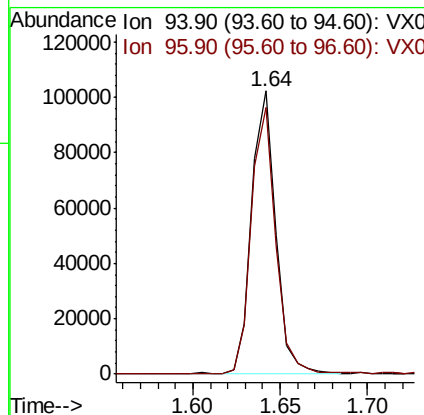
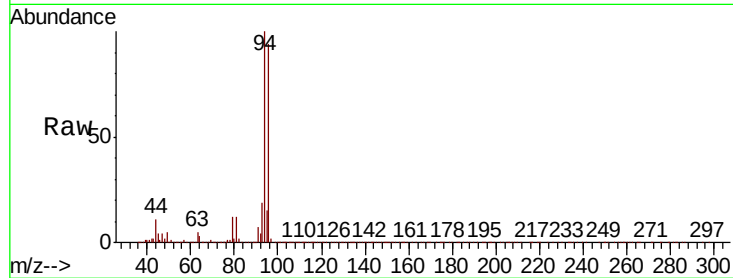
94 100

96 94.2 74.5 111.7

Manual Integrations
APPROVED

MMDadoda

12/12/2018 10:40:16 AM



#6

Chloroethane

Concen: 20.304 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX006424.D

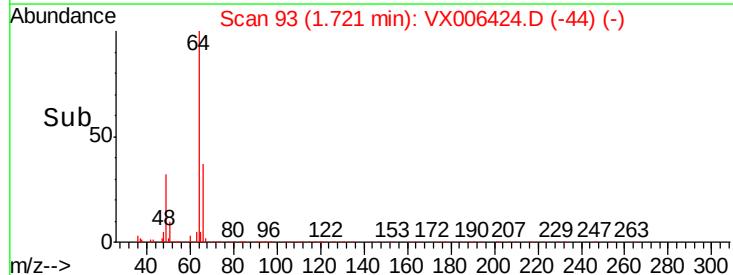
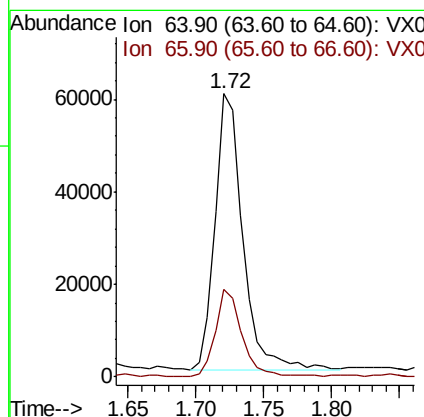
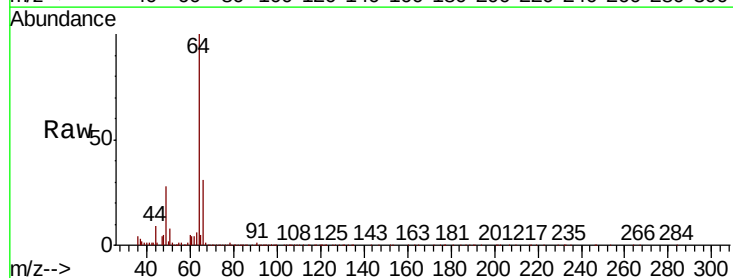
Acq: 11 Dec 2018 16:51

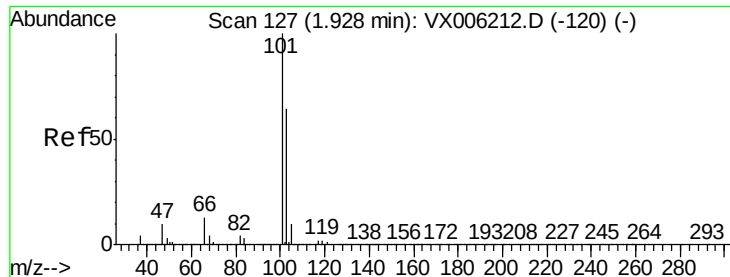
Tgt Ion: 64 Resp: 84633

Ion Ratio Lower Upper

64 100

66 31.5 25.9 38.9





#7

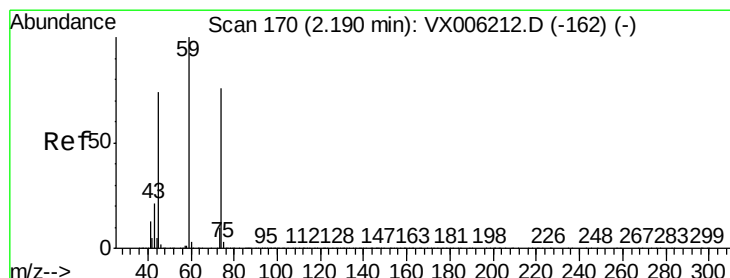
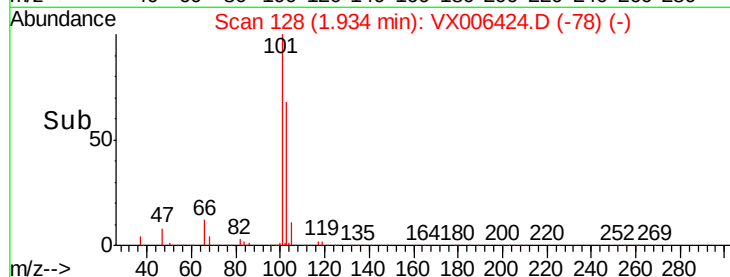
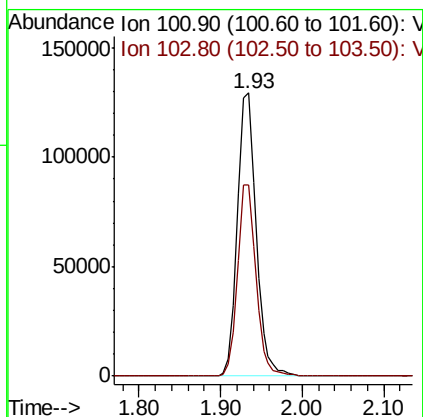
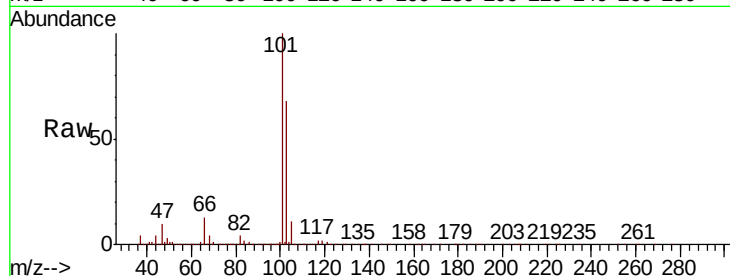
Trichlorofluoromethane
Concen: 19.546 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.01 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.0	76.4

Manual Integrations
APPROVED

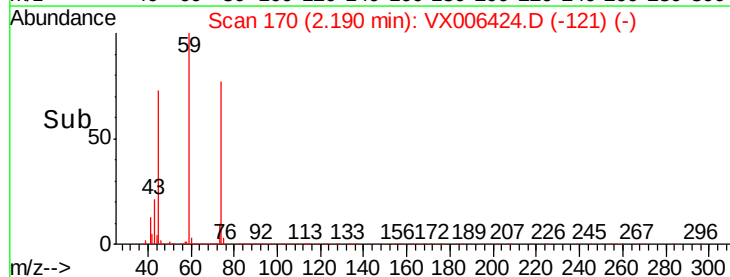
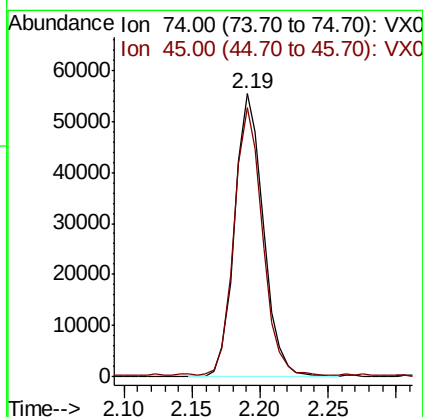
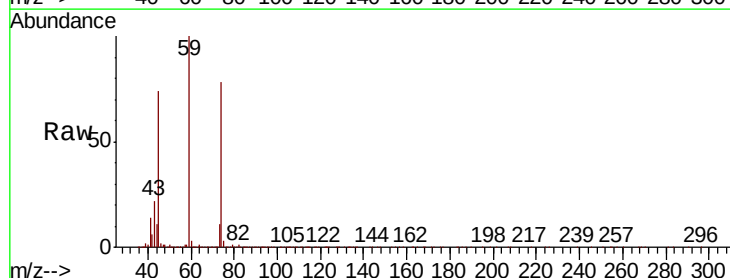
MMDadoda
12/12/2018 10:40:16 AM

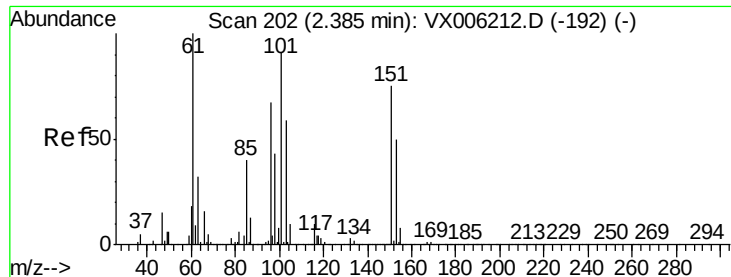


#8

Diethyl Ether
Concen: 20.532 ug/l
RT: 2.19 min Scan# 170
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.1	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.052 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

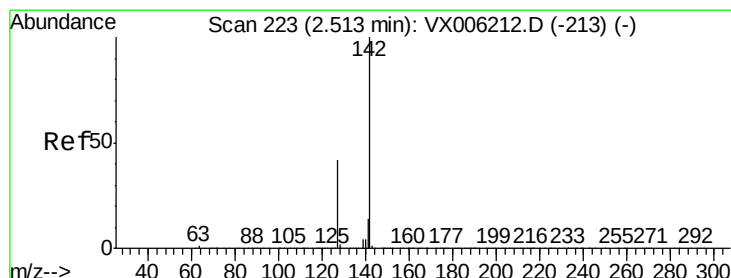
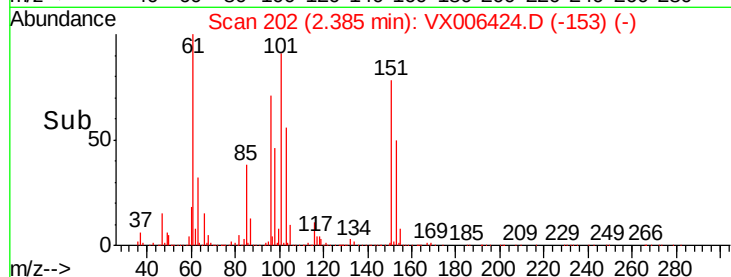
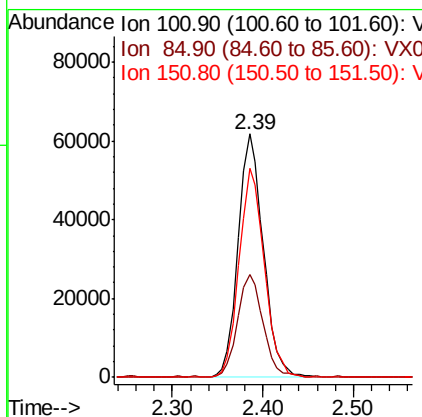
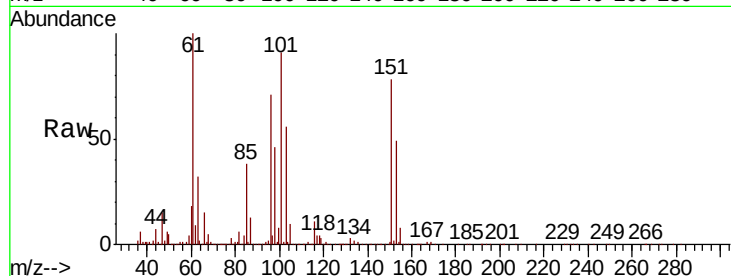
ClientSampleId :

VX1211WBSD01

Tot Ion:	101	Resp:	118982
Ion Ratio	Lower	Upper	
101	100		
85	42.4	35.5	53.3
151	85.9	68.6	103.0

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#10

Methyl Iodide

Concen: 13.770 ug/l

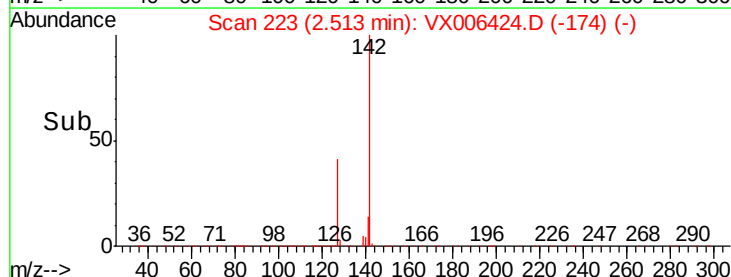
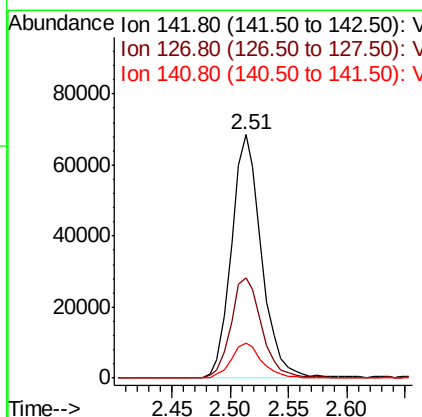
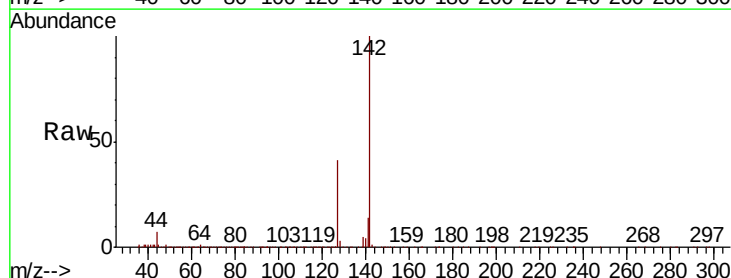
RT: 2.51 min Scan# 223

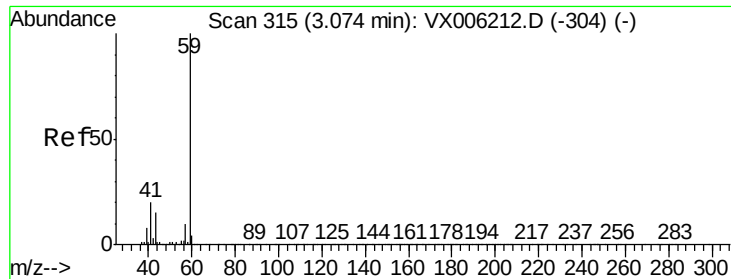
Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion:	142	Resp:	123133
Ion Ratio	Lower	Upper	
142	100		
127	43.2	34.8	52.2
141	15.1	11.4	17.2





#11

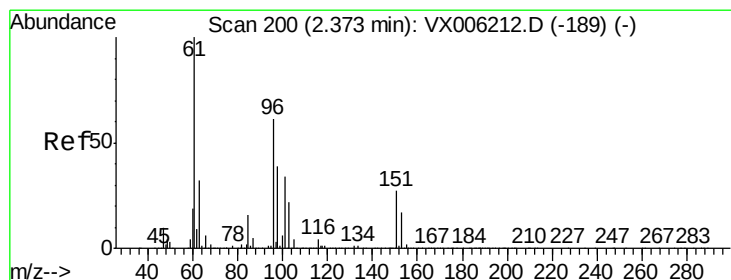
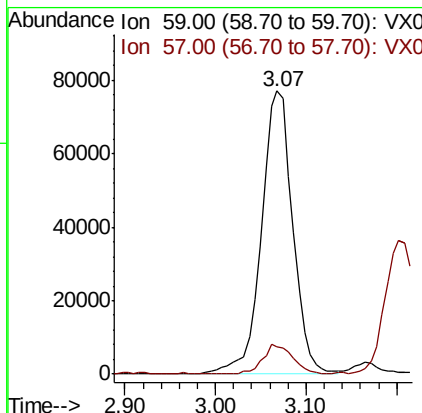
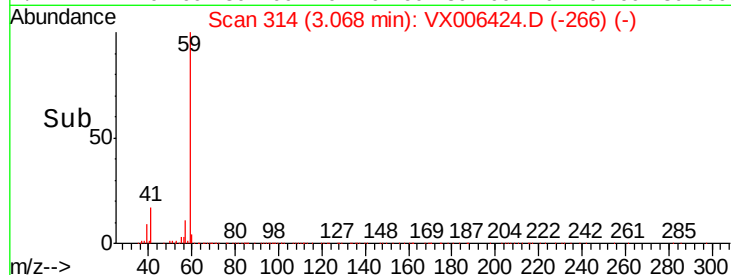
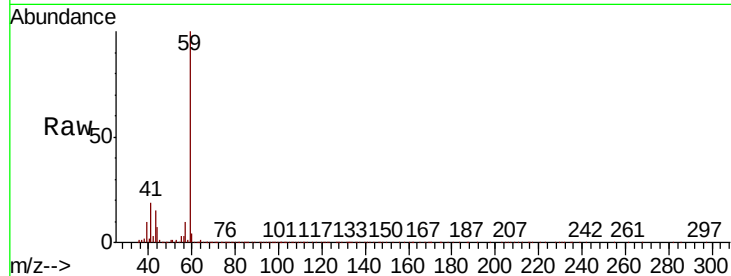
Tert butyl alcohol
Concen: 104.443 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.2	12.2

Manual Integrations
APPROVED

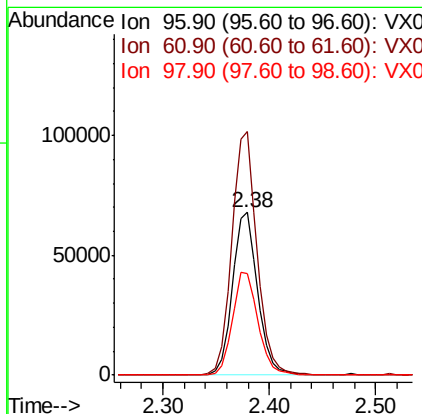
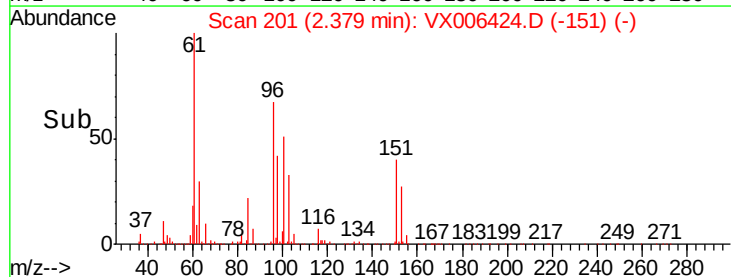
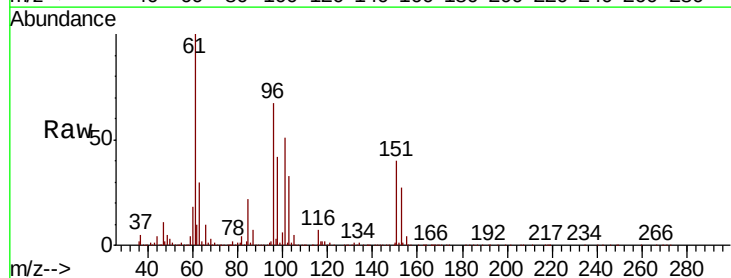
MMDadoda
12/12/2018 10:40:16 AM

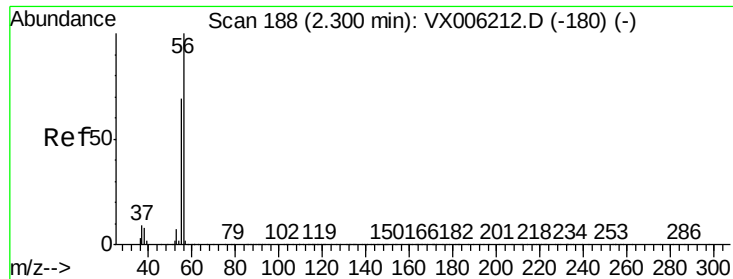


#12

1,1-Dichloroethene
Concen: 19.787 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.5	131.7	197.5
98	62.6	51.8	77.6





#13

Acrolein

Concen: 99.414 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 56 Resp: 95228

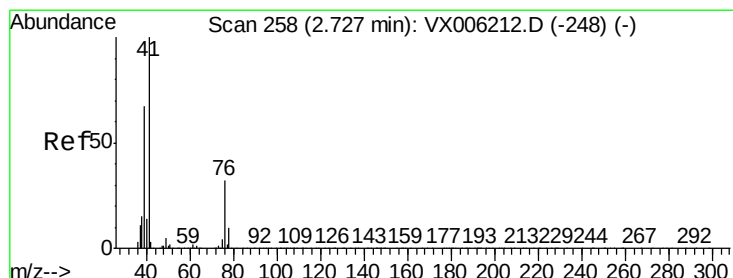
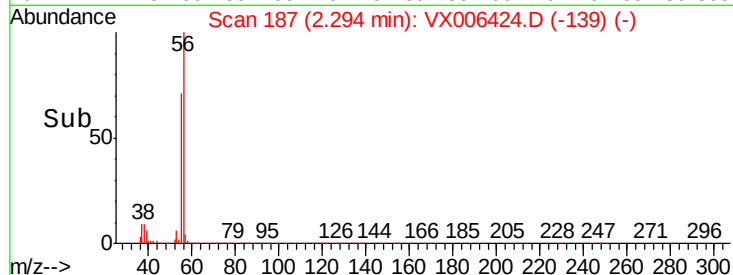
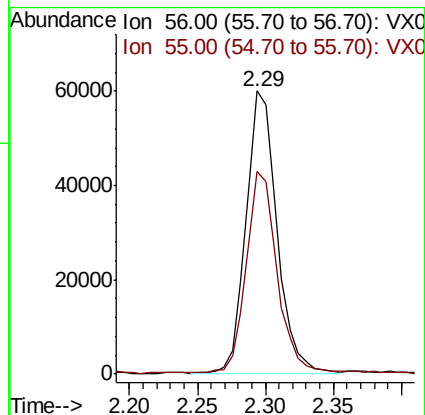
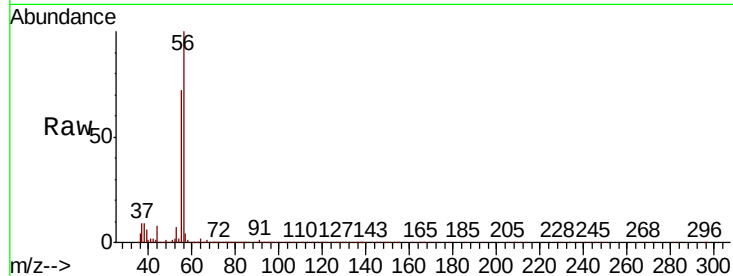
Ion Ratio Lower Upper

56 100

55 71.1 57.8 86.6

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#14

Allyl chloride

Concen: 17.761 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

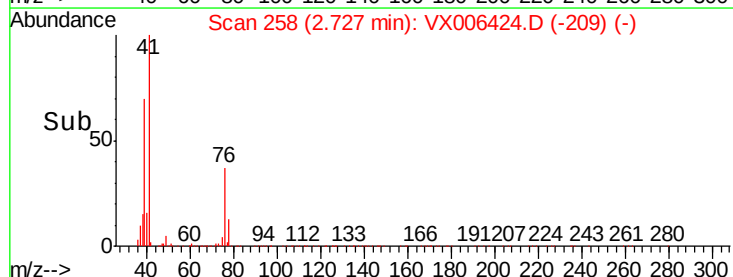
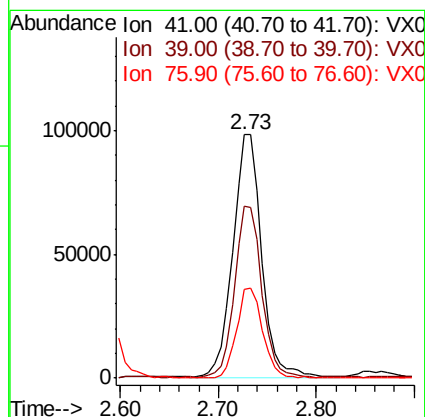
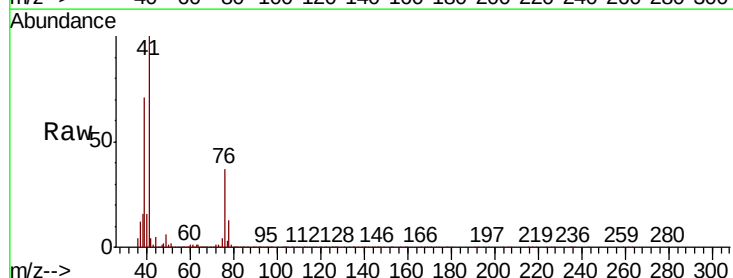
Tgt Ion: 41 Resp: 199296

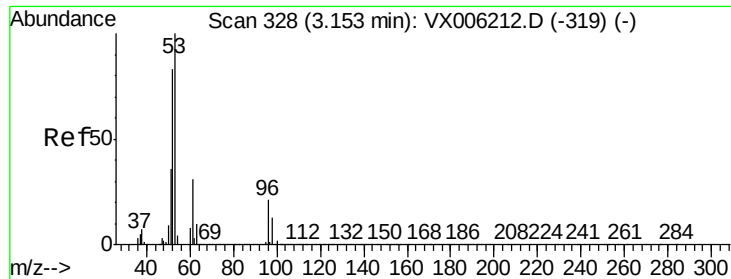
Ion Ratio Lower Upper

41 100

39 66.9 52.4 78.6

76 33.8 25.4 38.0





#15

Acrylonitrile

Concen: 99.432 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

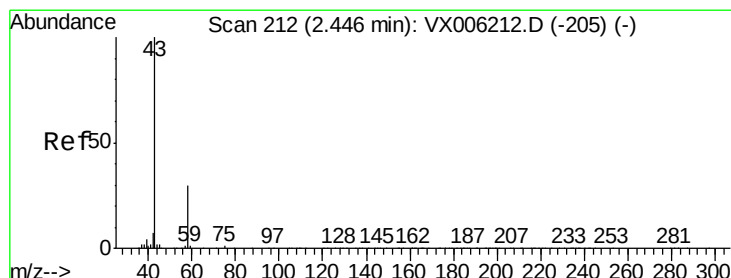
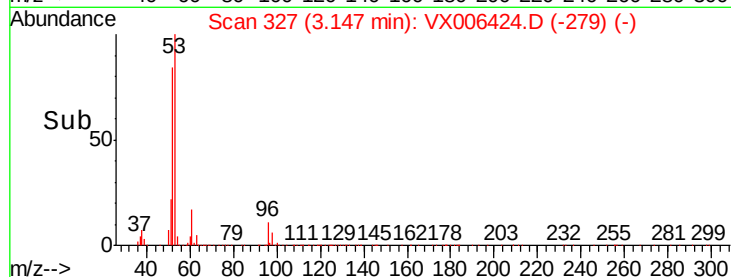
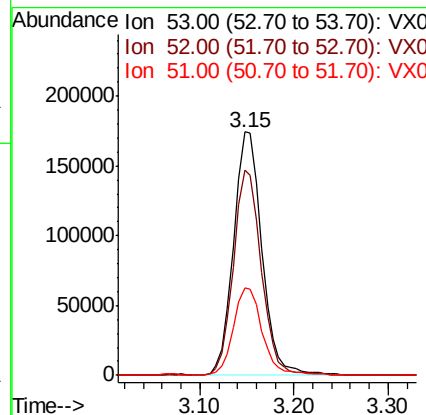
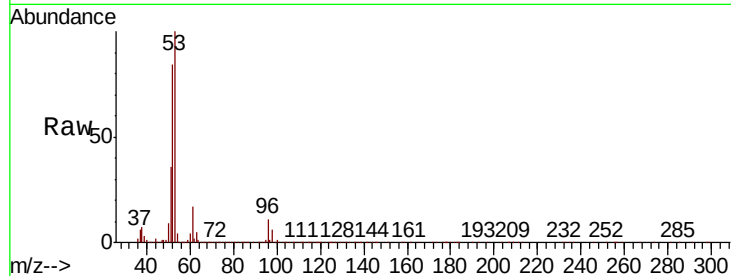
ClientSampleId :

VX1211WBSD01

Tot Ion:	53	Resp:	363642
Ion Ratio		Lower	Upper
53	100		
52	83.3	66.2	99.4
51	36.5	28.7	43.1

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#16

Acetone

Concen: 102.218 ug/l

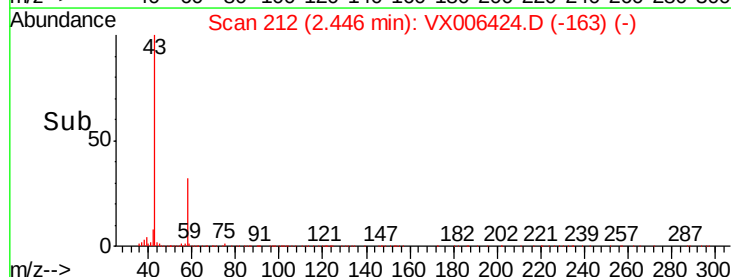
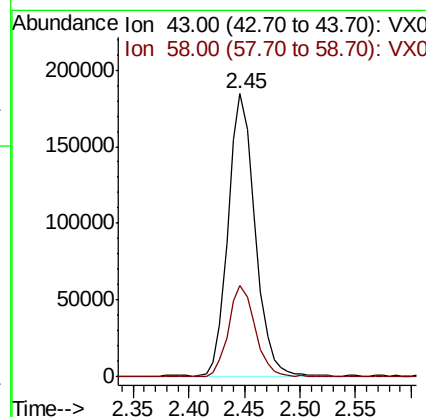
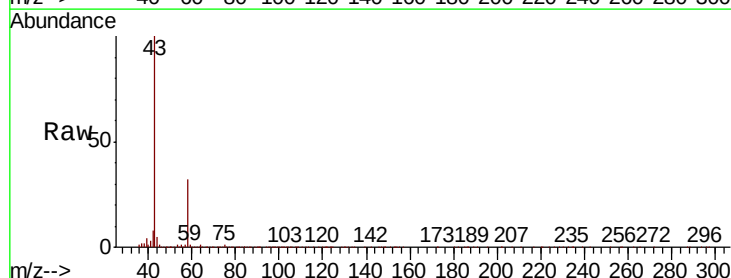
RT: 2.45 min Scan# 212

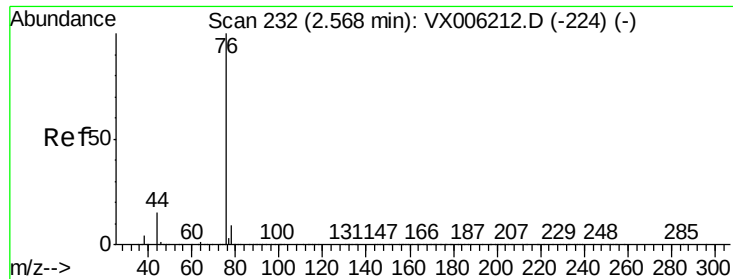
Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion:	43	Resp:	307416
Ion Ratio		Lower	Upper
43	100		
58	32.4	24.0	36.0





#17

Carbon Disulfide

Concen: 15.671 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 76 Resp: 274299

Ion Ratio Lower Upper

76 100

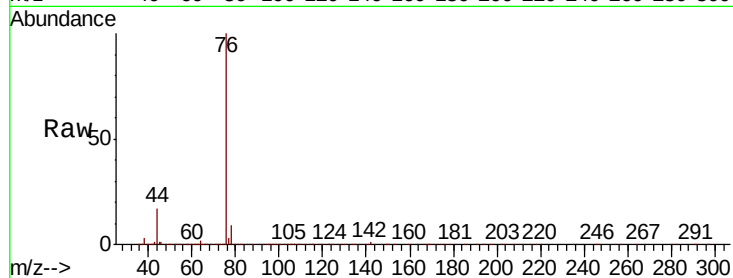
78 9.0 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

12/12/2018 10:40:16 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

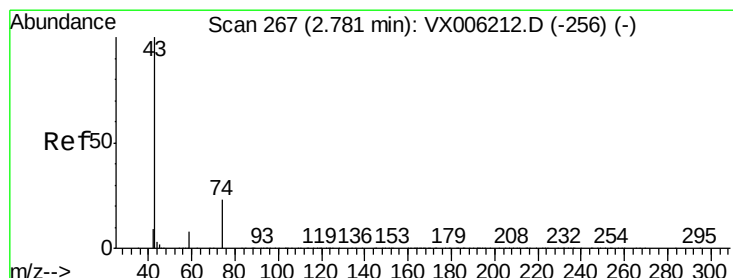
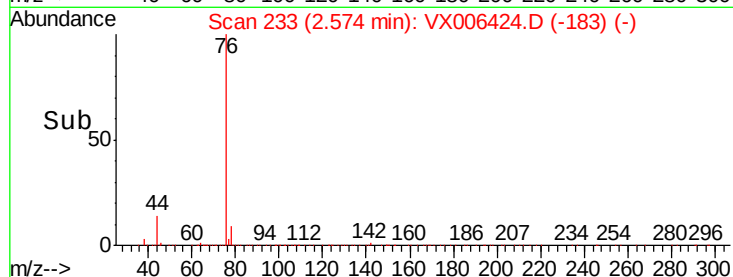
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.965 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX006424.D

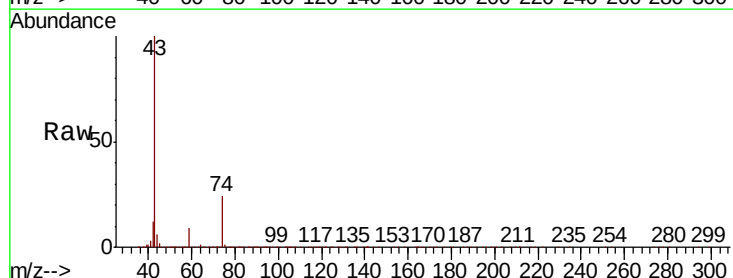
Acq: 11 Dec 2018 16:51

Tgt Ion: 43 Resp: 210853

Ion Ratio Lower Upper

43 100

74 24.2 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

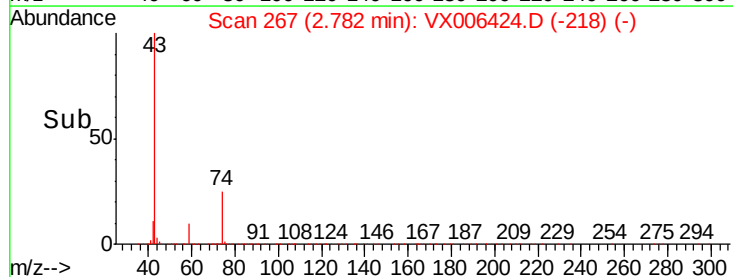
2.78

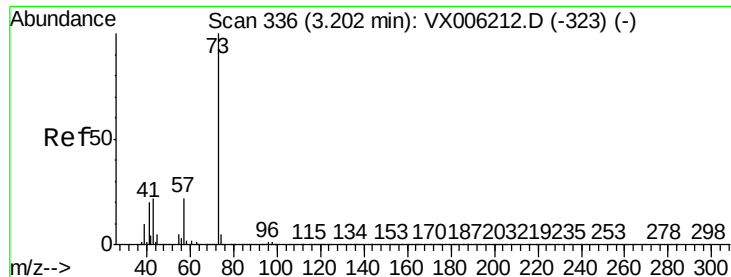
100000

50000

0

Time-->





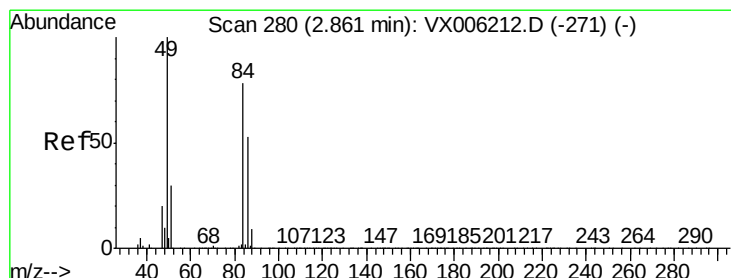
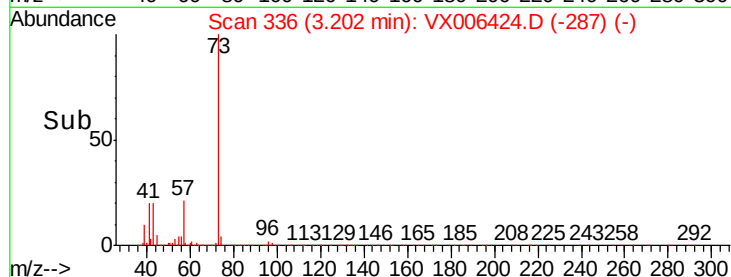
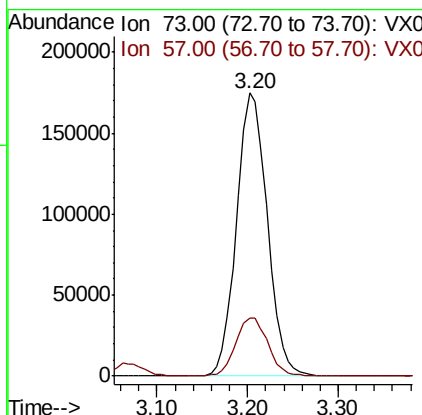
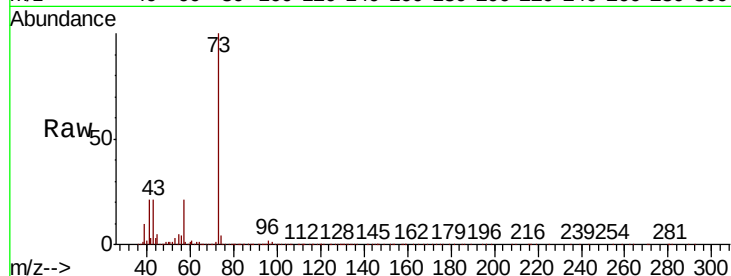
#19
Methyl tert-butyl Ether
Concen: 20.320 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.6	17.5	26.3

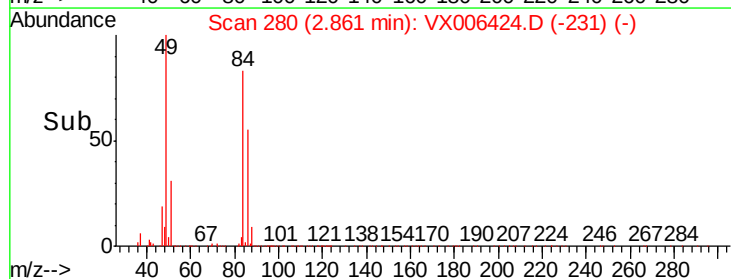
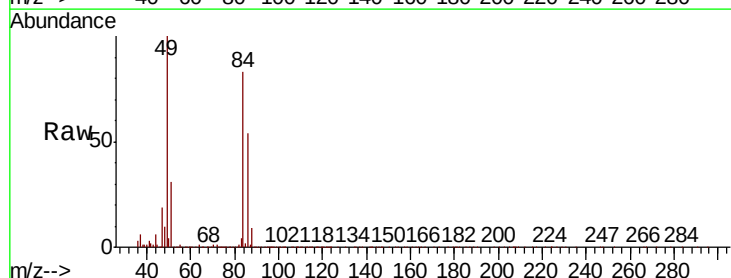
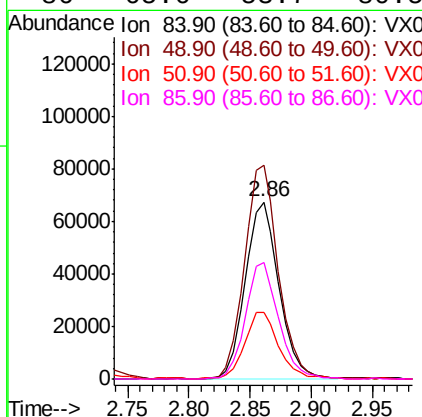
Manual Integrations
APPROVED

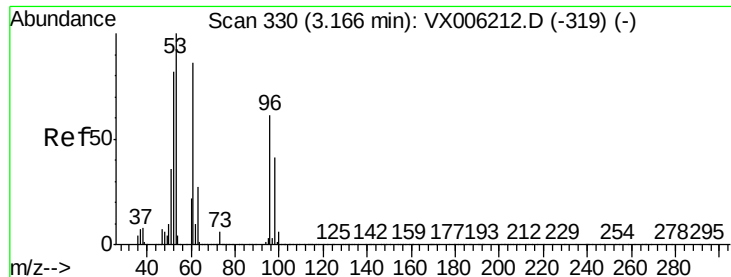
MMDadoda
12/12/2018 10:40:16 AM



#20
Methylene Chloride
Concen: 20.230 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
84	100		
49	120.6	102.2	153.4
51	37.2	31.1	46.7
86	65.6	53.7	80.5





#21

trans-1,2-Dichloroethene

Concen: 19.636 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

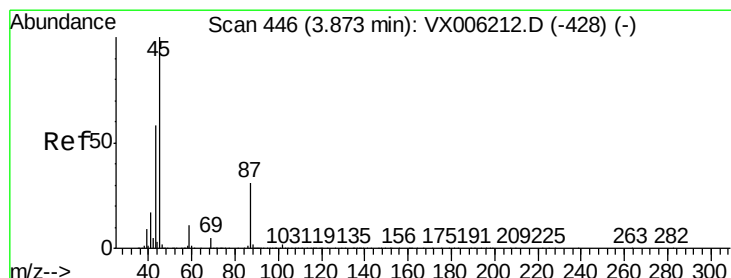
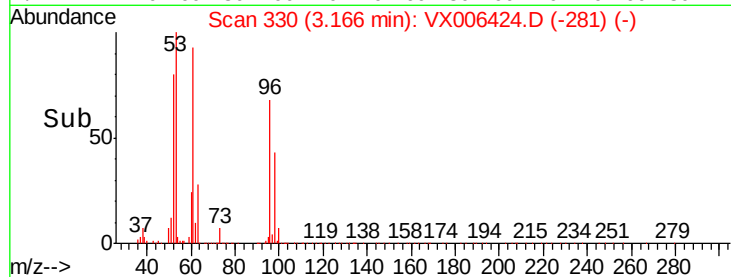
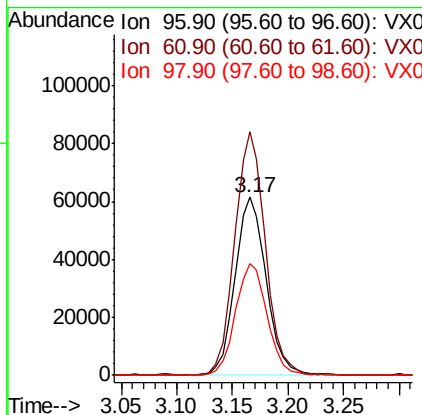
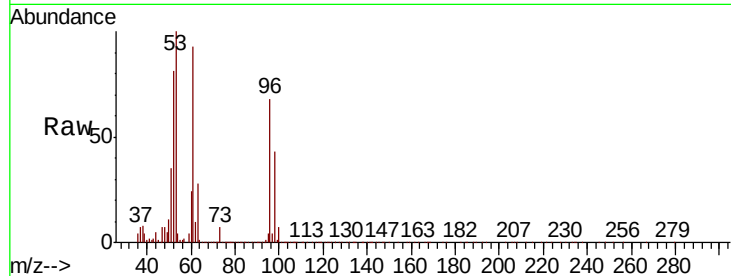
ClientSampleId :

VX1211WBSD01

Tot Ion:	96	Resp:	118867
Ion	Ratio	Lower	Upper
96	100		
61	136.8	113.3	169.9
98	63.1	53.2	79.8

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#22

Diisopropyl ether

Concen: 20.748 ug/l

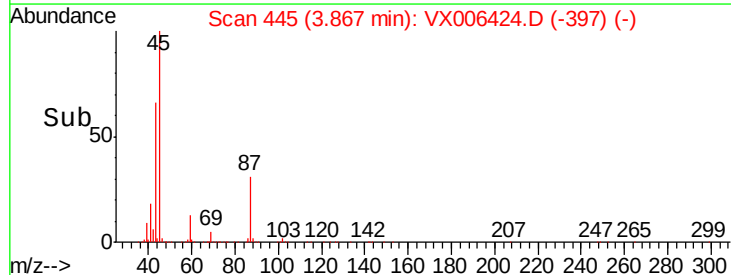
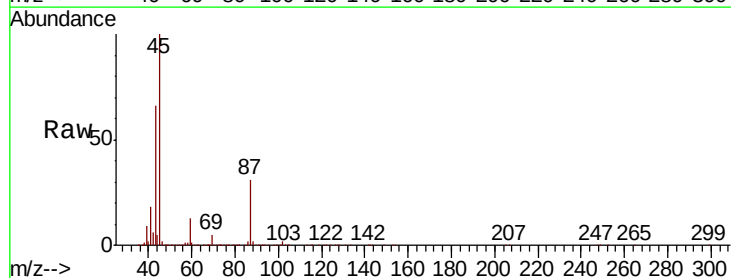
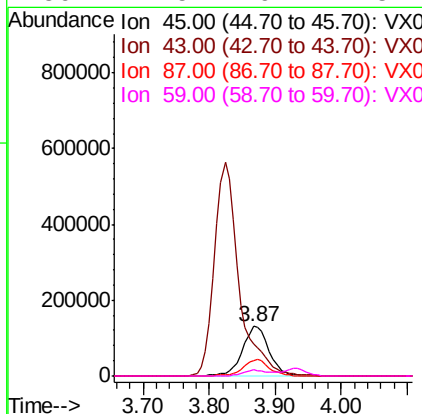
RT: 3.87 min Scan# 445

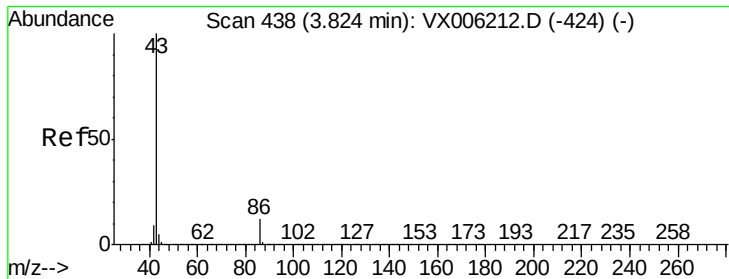
Delta R.T. -0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion:	45	Resp:	363638
Ion	Ratio	Lower	Upper
45	100		
43	65.4	46.2	69.2
87	31.0	24.9	37.3
59	12.5	9.1	13.7





#23

Vinyl Acetate

Concen: 97.972 ug/l

RT: 3.82 min Scan# 438

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 43 Resp: 1464565

Ion Ratio Lower Upper

43 100

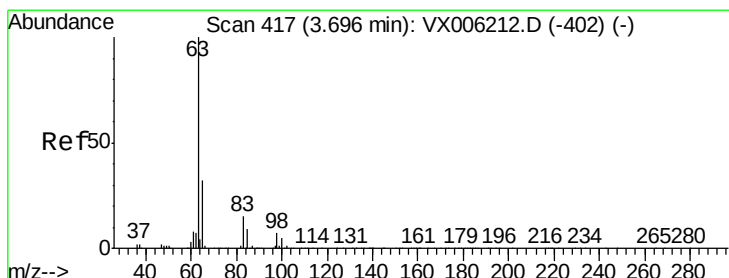
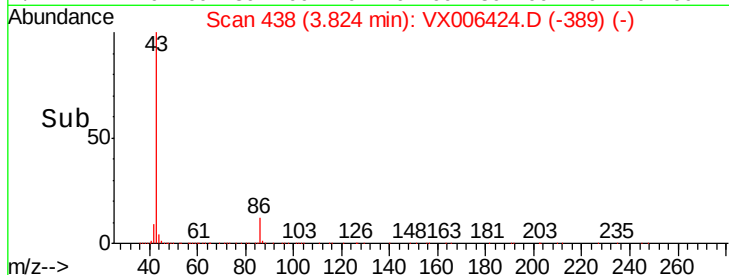
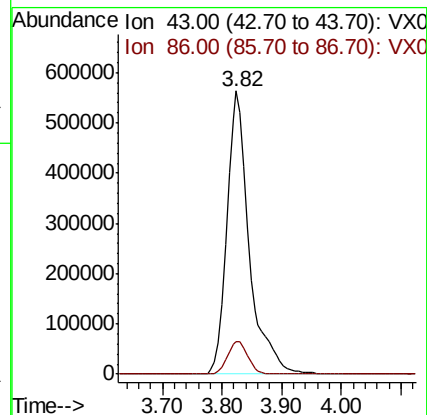
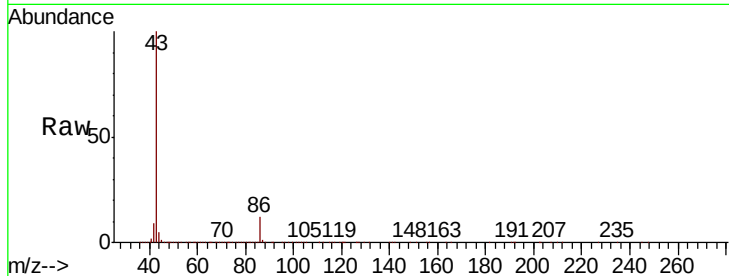
86 11.5 9.4 14.0

Manual Integrations

APPROVED

MMDadoda

12/12/2018 10:40:16 AM



#24

1,1-Dichloroethane

Concen: 20.876 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

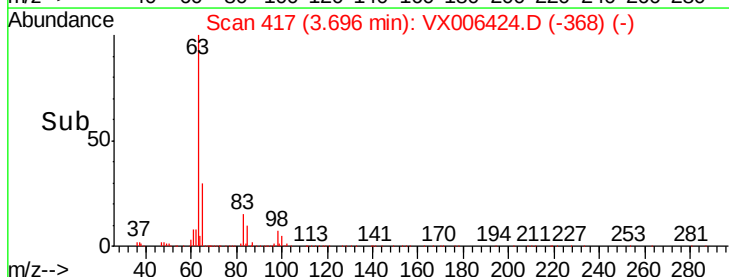
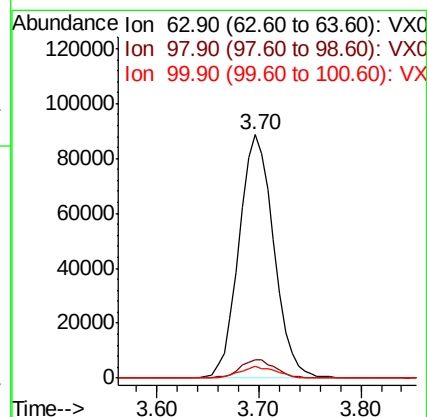
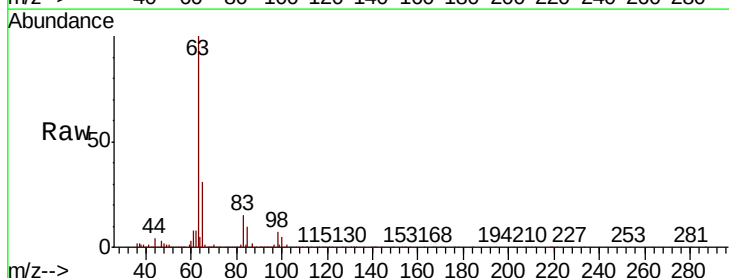
Tgt Ion: 63 Resp: 209131

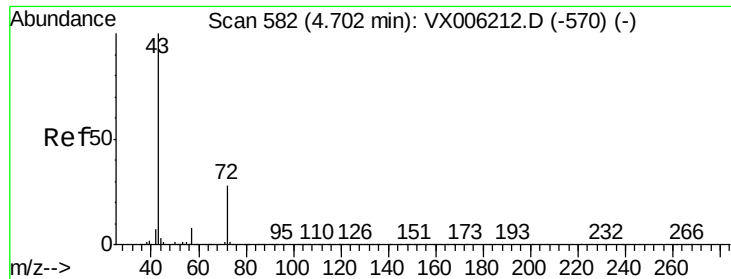
Ion Ratio Lower Upper

63 100

98 7.3 3.8 11.4

100 4.9 2.5 7.4





#25

2-Butanone

Concen: 105.529 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 43 Resp: 452848

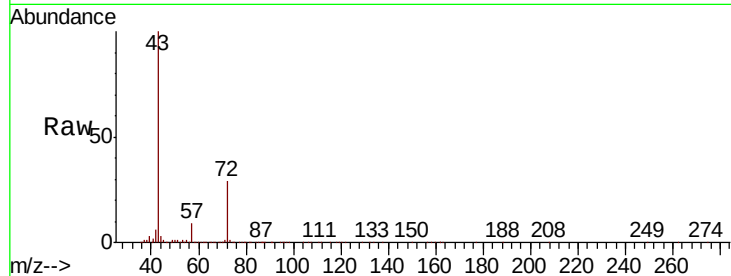
Ion Ratio Lower Upper

43 100

72 28.7 22.6 33.8

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

150000

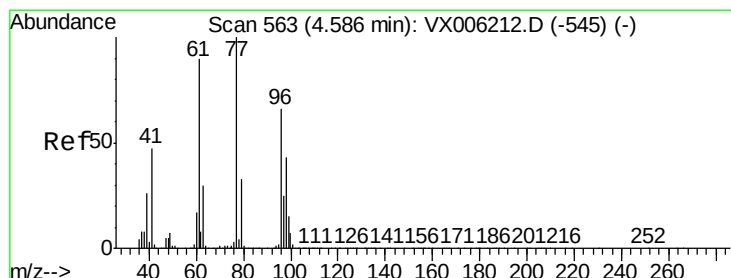
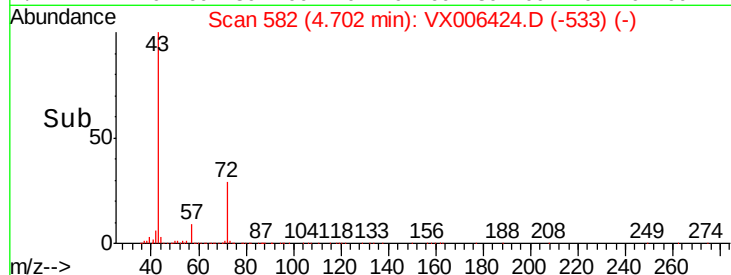
100000

50000

0

4.60 4.70 4.80

Time-->



#26

2,2-Dichloropropane

Concen: 17.656 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.00 min

Lab File: VX006424.D

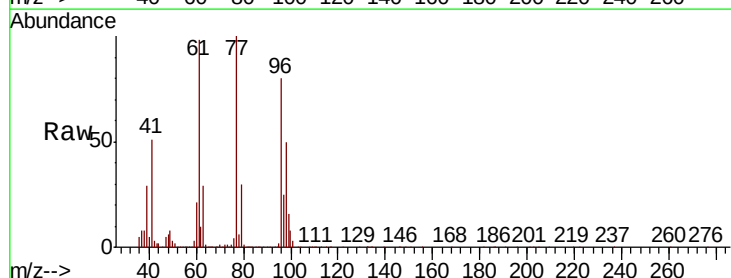
Acq: 11 Dec 2018 16:51

Tgt Ion: 77 Resp: 163237

Ion Ratio Lower Upper

77 100

97 25.4 12.3 36.8



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

60000

50000

40000

30000

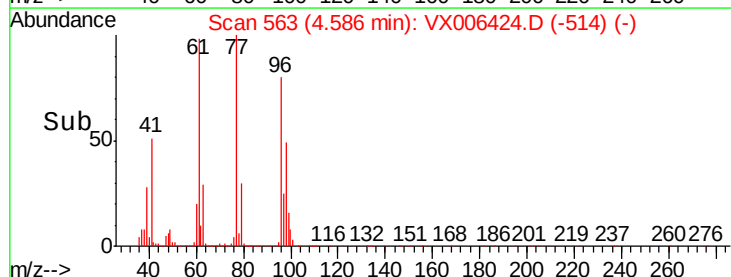
20000

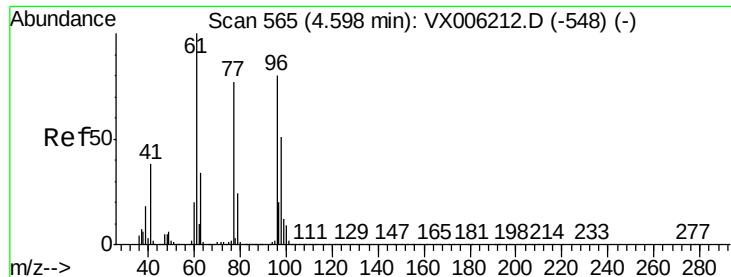
10000

0

4.50 4.60 4.70

Time-->





#27

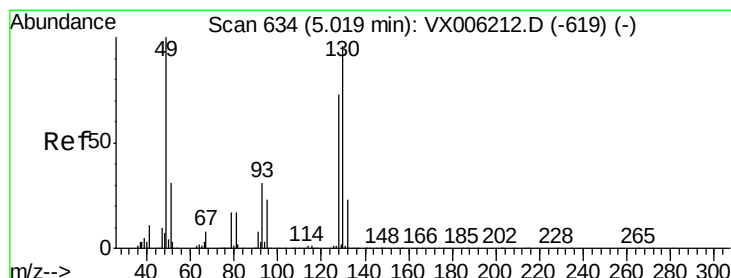
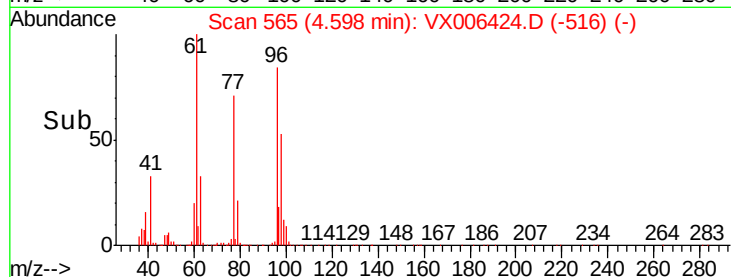
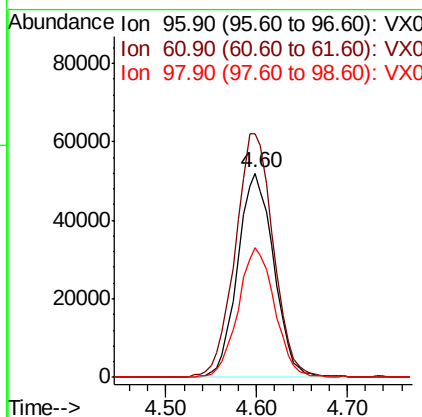
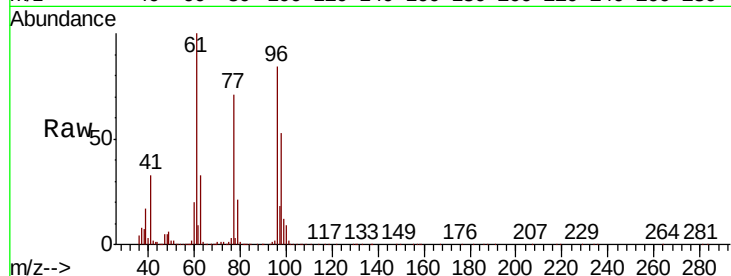
cis-1,2-Dichloroethene
Concen: 21.290 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.7	0.0	265.0
98	64.1	0.0	130.2

Manual Integrations
APPROVED

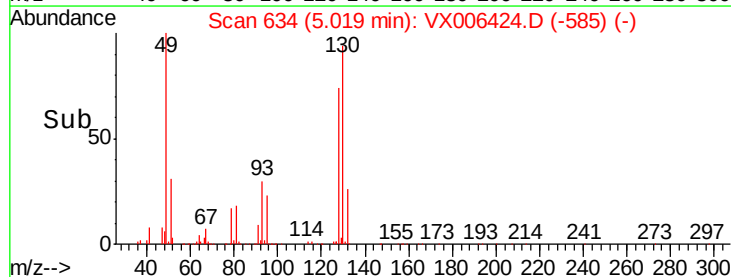
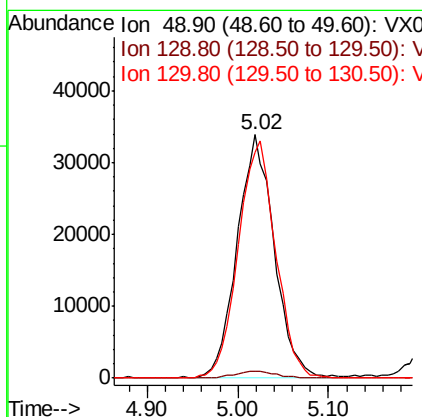
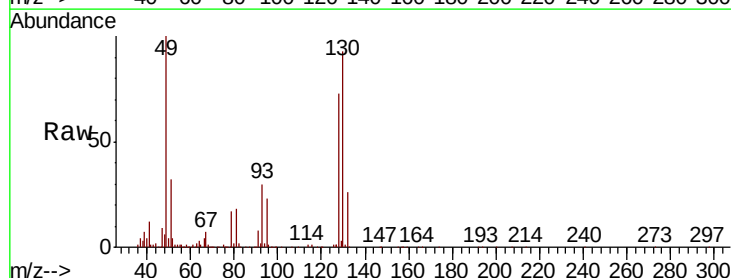
MMDadoda
12/12/2018 10:40:16 AM

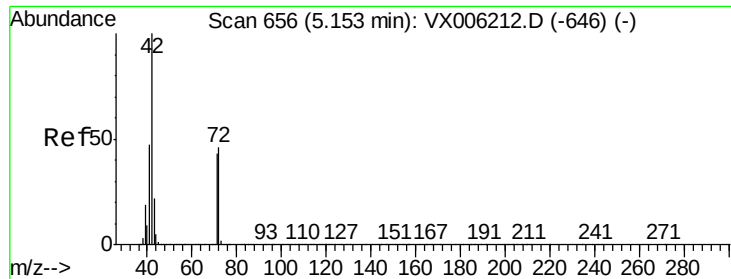


#28

Bromochloromethane
Concen: 21.763 ug/l
RT: 5.02 min Scan# 634
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.2	0.0	5.0
130	98.4	78.3	117.5





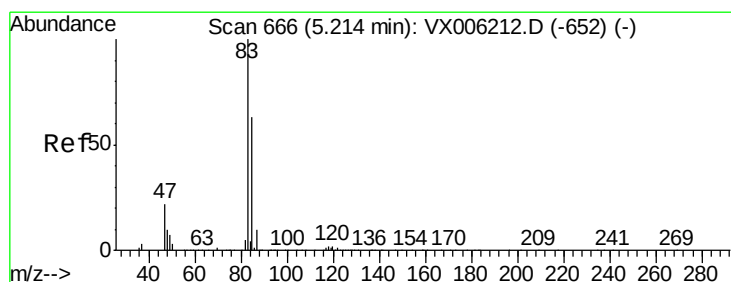
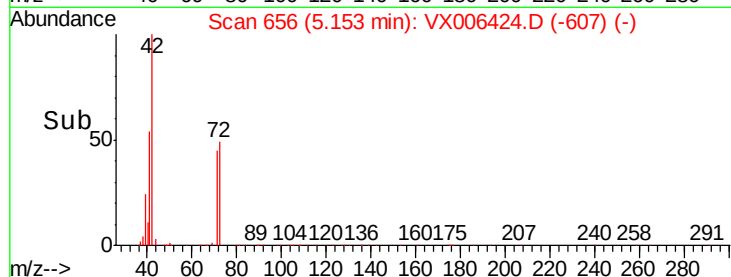
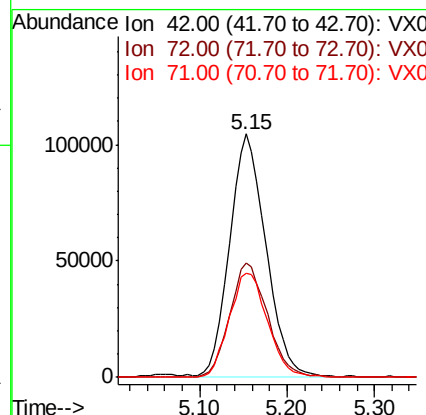
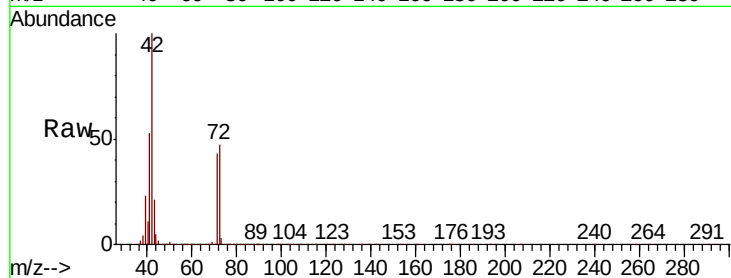
#29
Tetrahydrofuran
Concen: 100.610 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	49.0	37.8	56.8
71	45.4	35.2	52.8

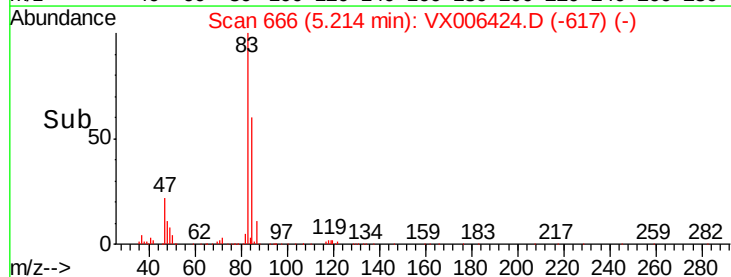
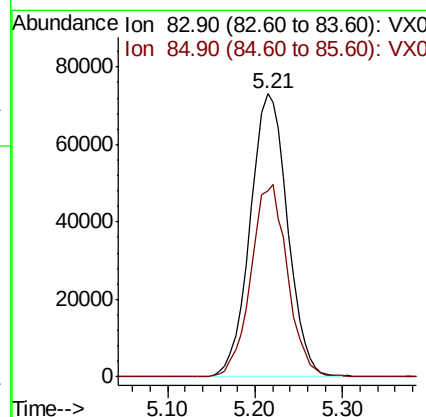
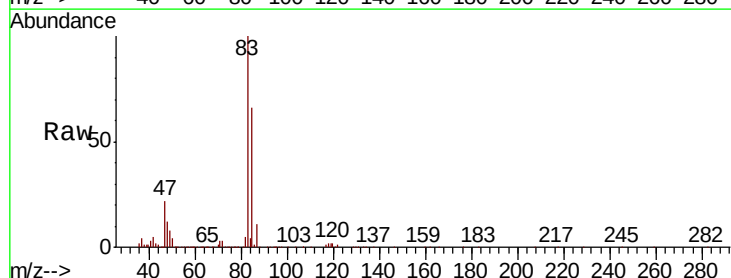
Manual Integrations
APPROVED

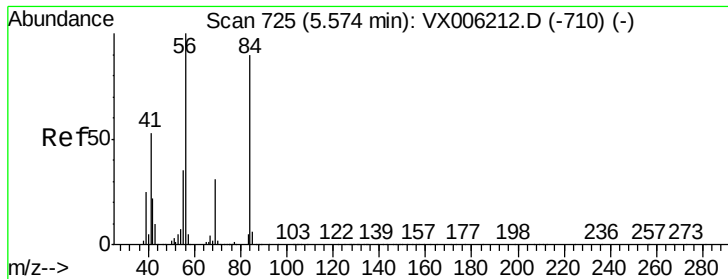
MMDadoda
12/12/2018 10:40:16 AM



#30
Chloroform
Concen: 20.542 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.3	75.5





#31

Cyclohexane

Concen: 18.867 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

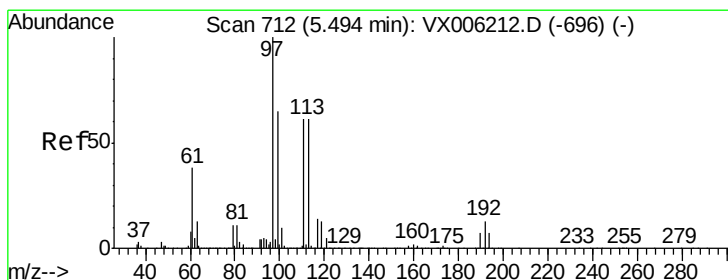
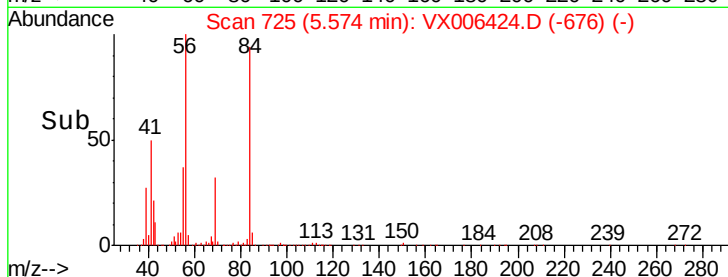
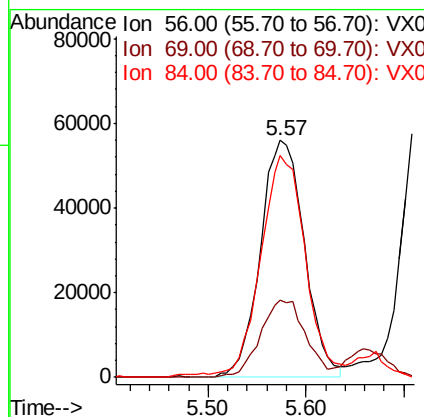
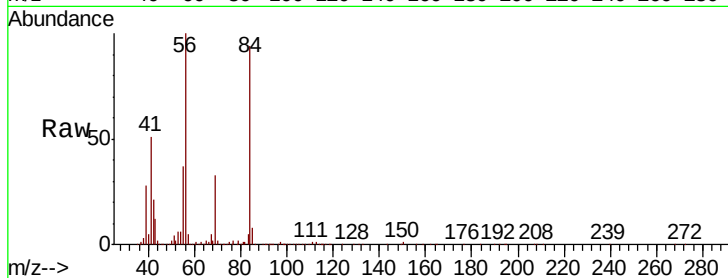
ClientSampleId :

VX1211WBSD01

Tot Ion	56	Resp	174676
Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.5	36.7
84	92.3	71.8	107.6

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#32

1,1,1-Trichloroethane

Concen: 19.687 ug/l

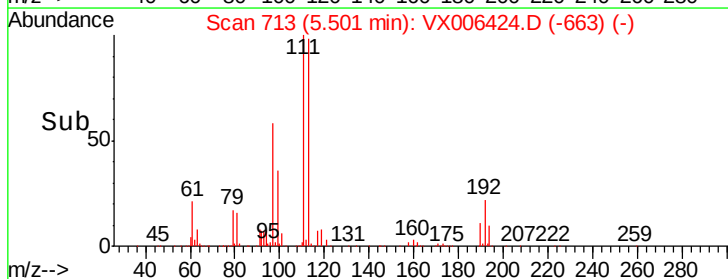
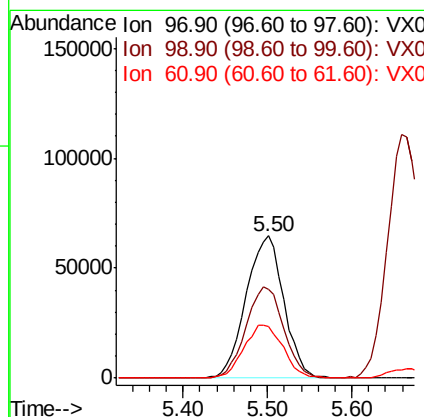
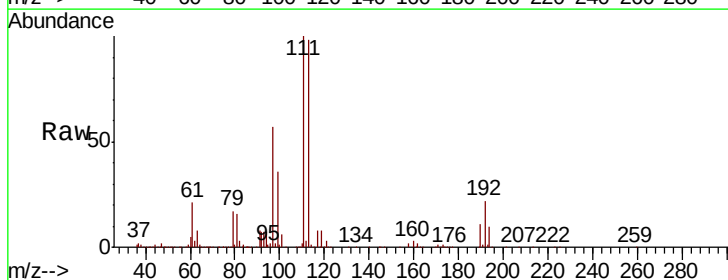
RT: 5.50 min Scan# 713

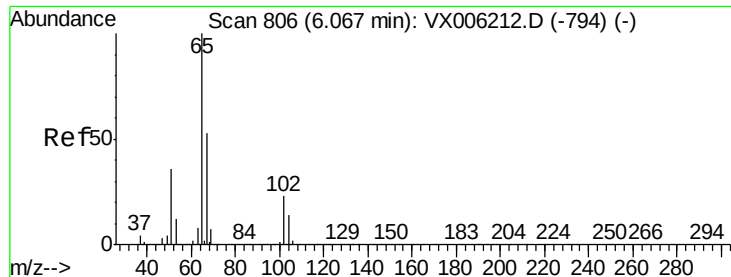
Delta R.T. 0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion	97	Resp	197196
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.6	77.4
61	38.9	30.6	46.0





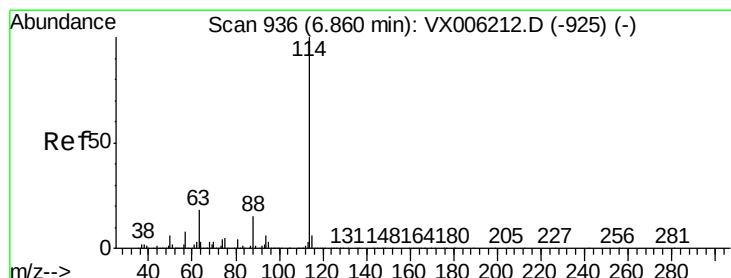
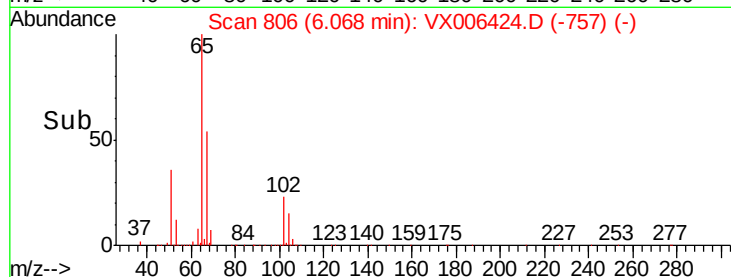
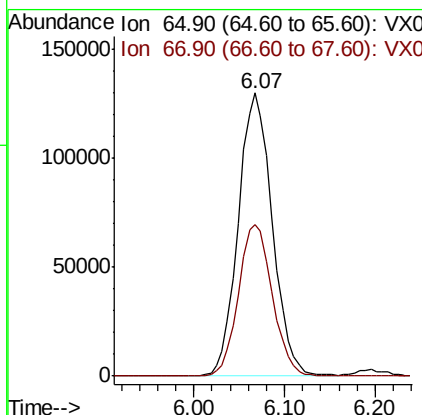
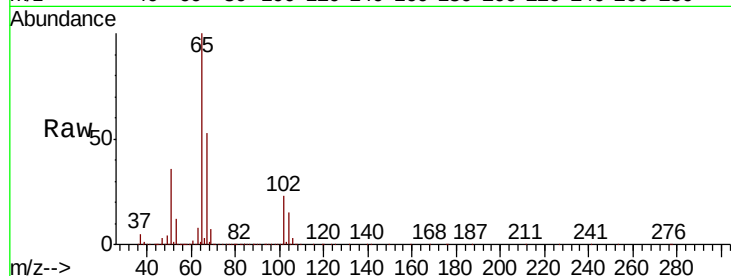
#33
 1,2-Dichloroethane-d4
 Concen: 52.522 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	336588		
67	53.2	0.0	107.2	

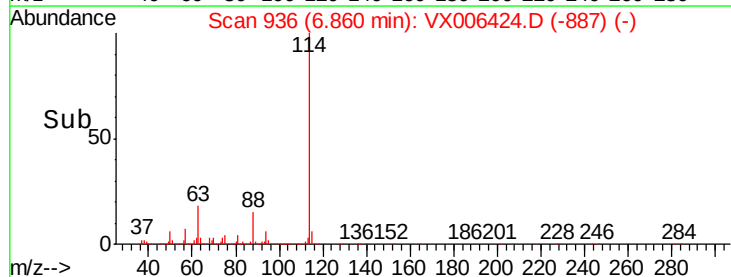
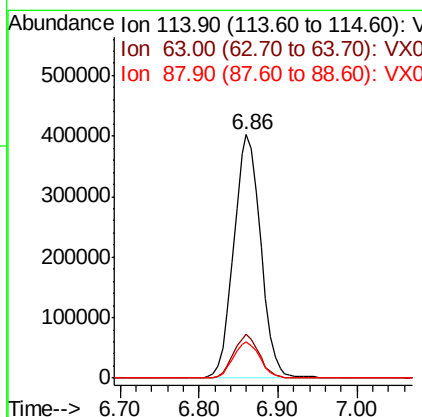
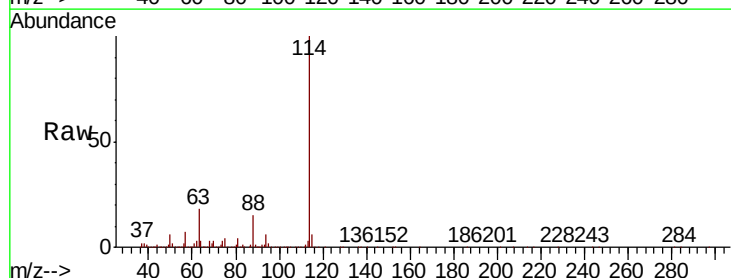
Manual Integrations
 APPROVED

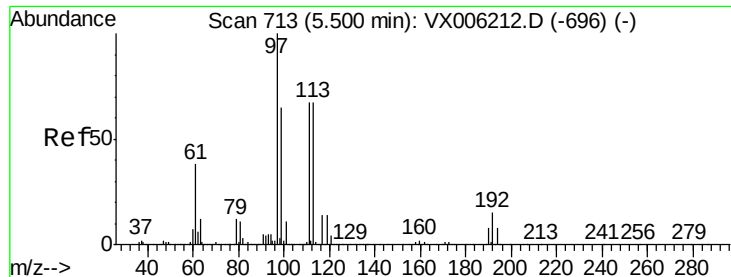
MMDadoda
 12/12/2018 10:40:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	954848		
63	18.0	0.0	36.6	
88	15.1	0.0	29.0	





#35

Dibromofluoromethane

Concen: 51.028 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

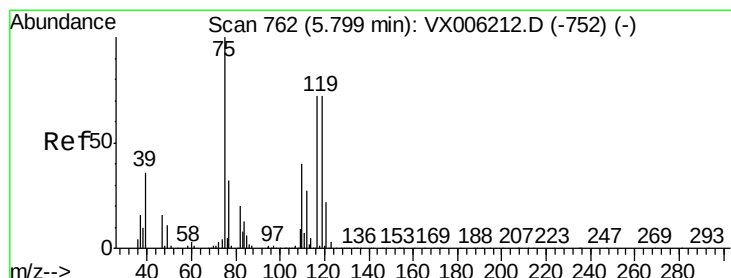
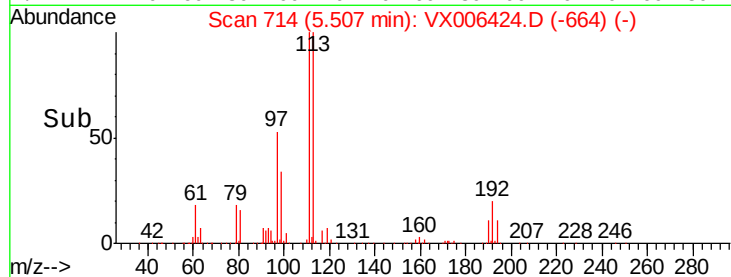
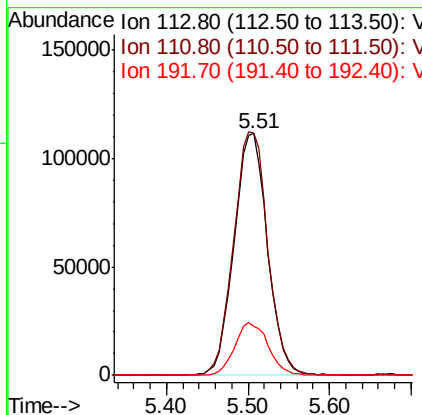
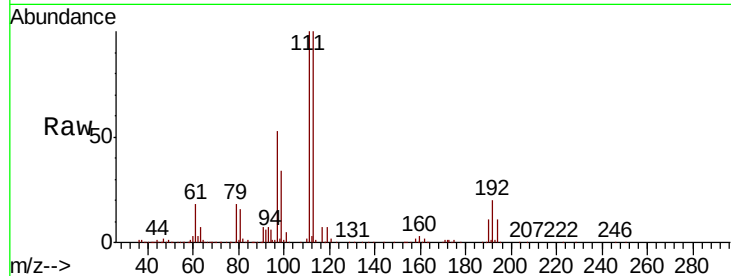
ClientSampleId :

VX1211WBSD01

Tot Ion:	113	Resp:	315471
Ion Ratio	Lower	Upper	
113	100		
111	102.8	81.1	121.7
192	22.2	18.2	27.2

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#36

1,1-Dichloropropene

Concen: 19.207 ug/l

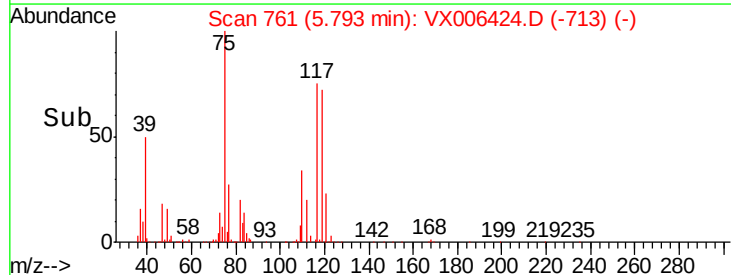
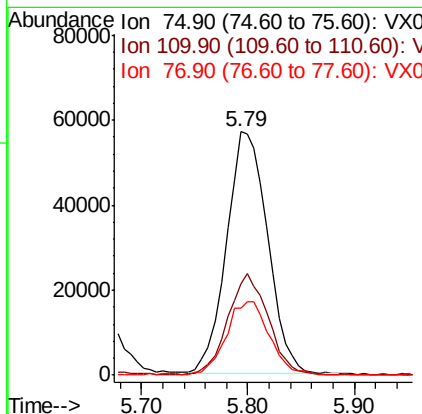
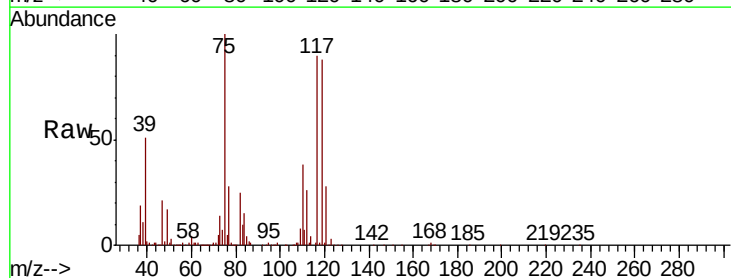
RT: 5.79 min Scan# 761

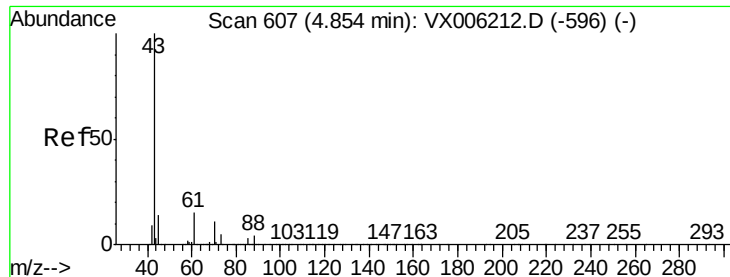
Delta R.T. -0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion:	75	Resp:	154442
Ion Ratio	Lower	Upper	
75	100		
110	41.1	20.4	61.3
77	31.9	24.9	37.3





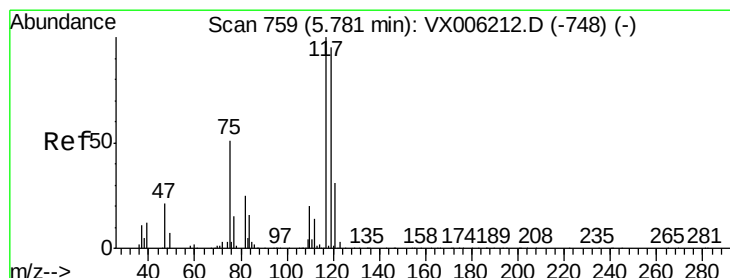
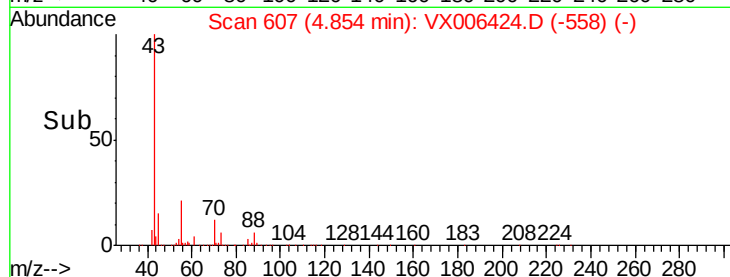
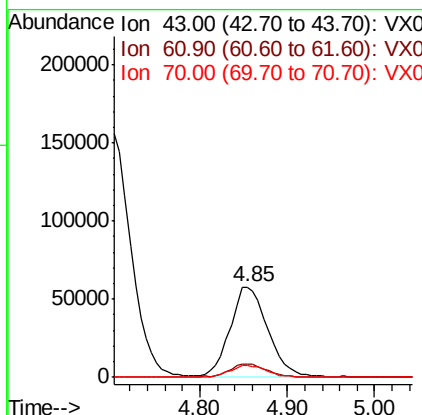
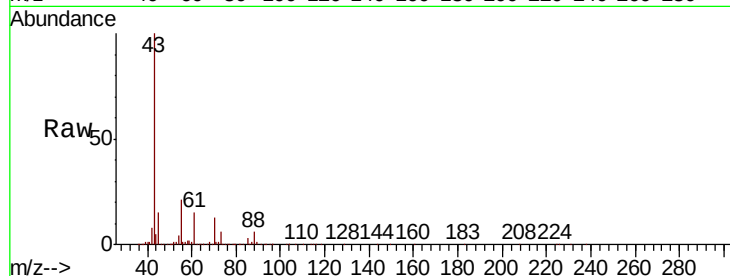
#37
Ethyl Acetate
Concen: 19.013 ug/l
RT: 4.85 min Scan# 607
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	43	Resp	171203
Ion Ratio	Lower	Upper	
43	100		
61	14.5	11.5	17.3
70	12.6	9.0	13.6

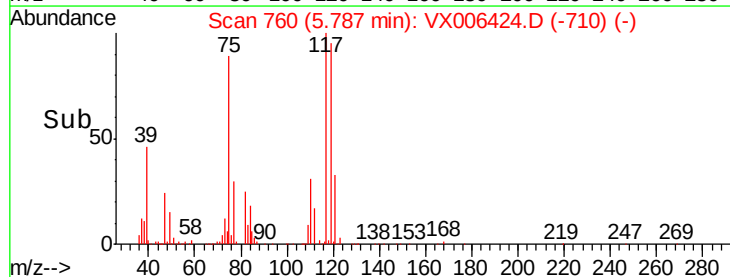
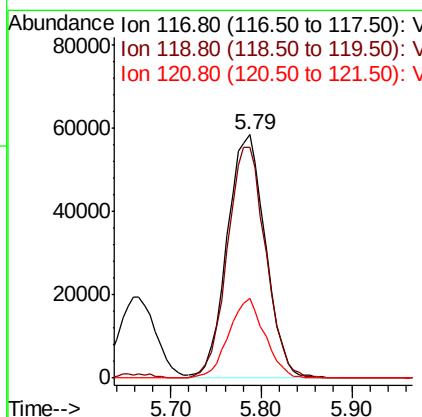
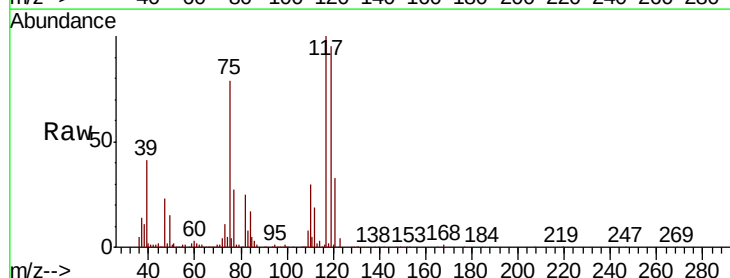
Manual Integrations
APPROVED

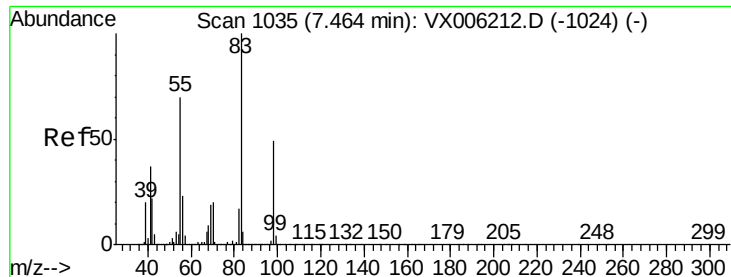
MMDadoda
12/12/2018 10:40:16 AM



#38
Carbon Tetrachloride
Concen: 17.978 ug/l
RT: 5.79 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	117	Resp	170060
Ion Ratio	Lower	Upper	
117	100		
119	94.9	75.8	113.8
121	32.9	24.6	37.0





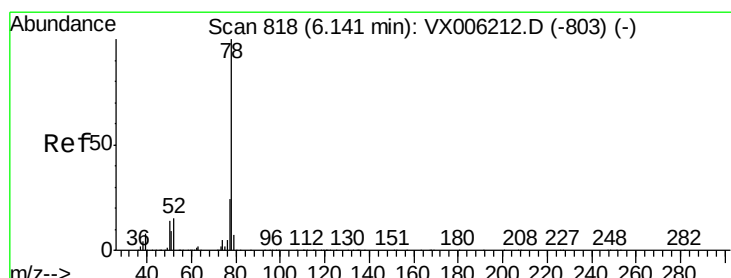
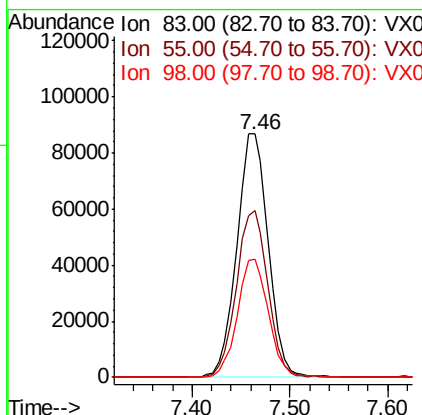
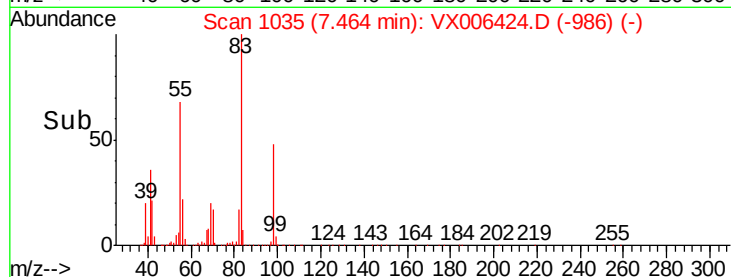
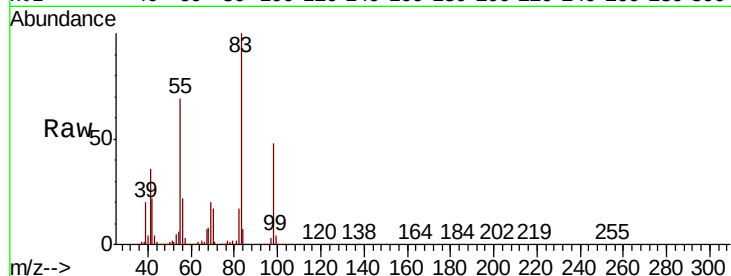
#39
Methylvlcyclohexane
Concen: 18.505 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	193141		
55	68.5		56.4	84.6
98	48.4		39.0	58.6

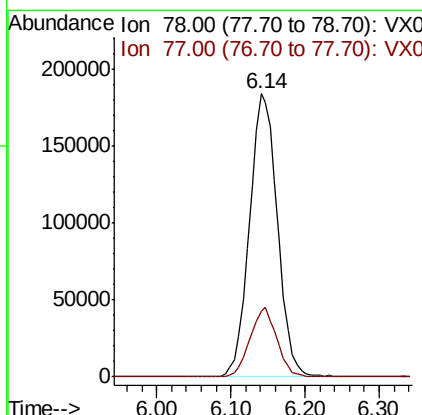
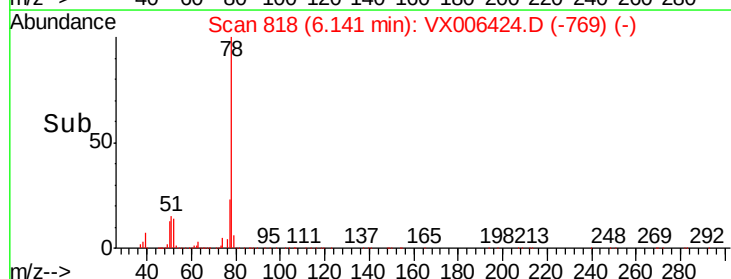
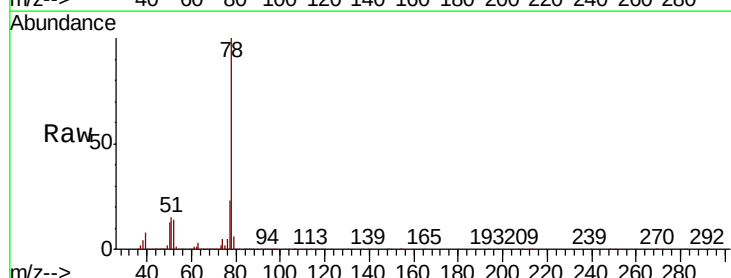
Manual Integrations
APPROVED

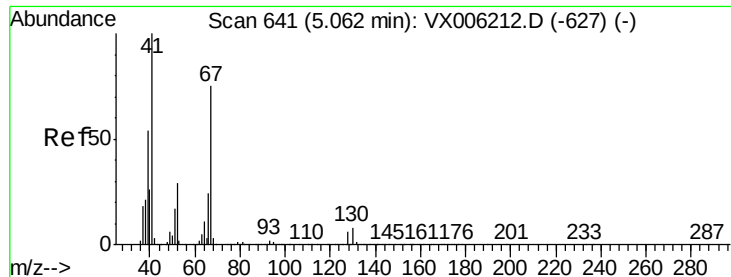
MMDadoda
12/12/2018 10:40:16 AM



#40
Benzene
Concen: 20.096 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	483961		
77	23.3		19.2	28.8





#41

Methacrylonitrile

Concen: 19.259 ug/l

RT: 5.06 min Scan# 641

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

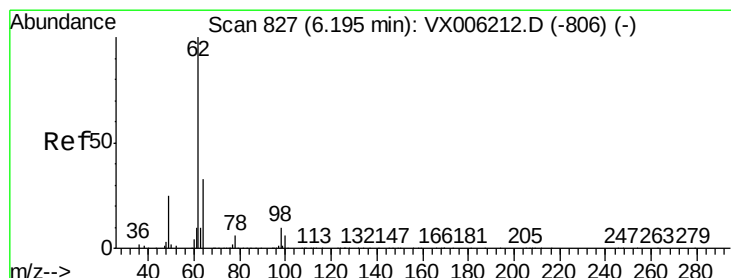
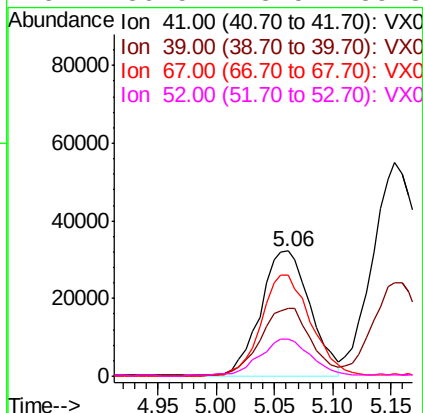
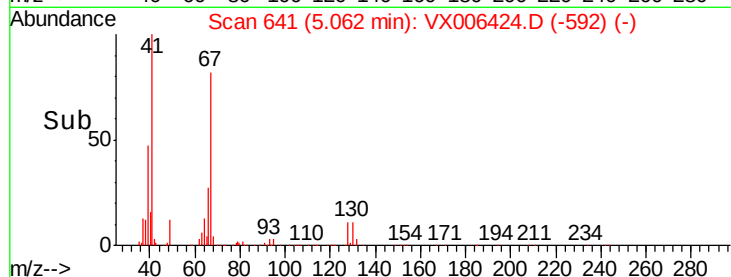
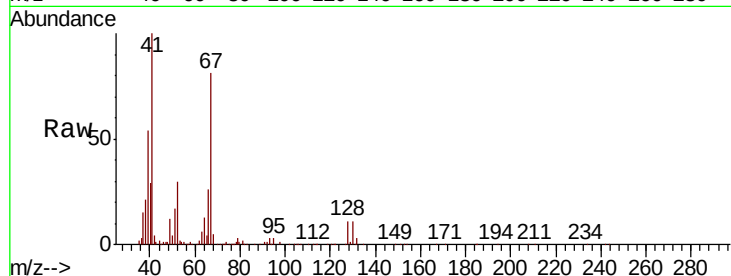
ClientSampleId :

VX1211WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		95423		
39	54.4	44.0	66.0		
67	80.5	61.4	92.0		
52	30.5	23.5	35.3		

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#42

1,2-Dichloroethane

Concen: 20.665 ug/l

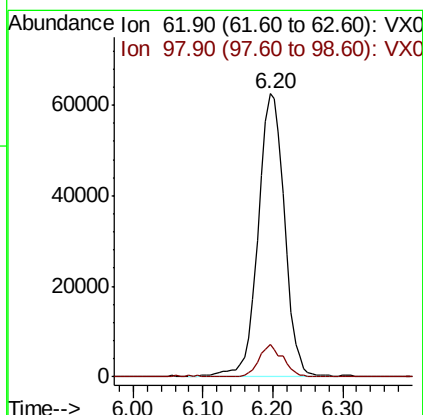
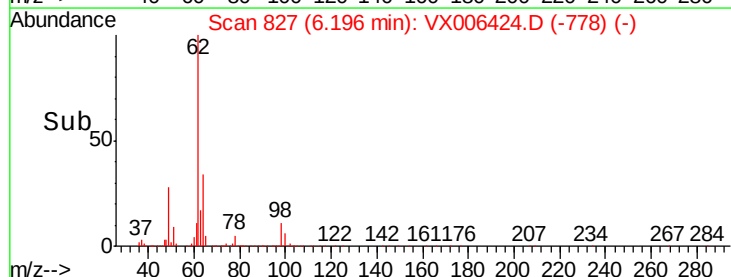
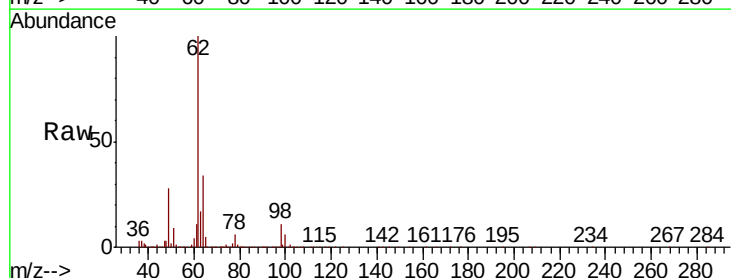
RT: 6.20 min Scan# 827

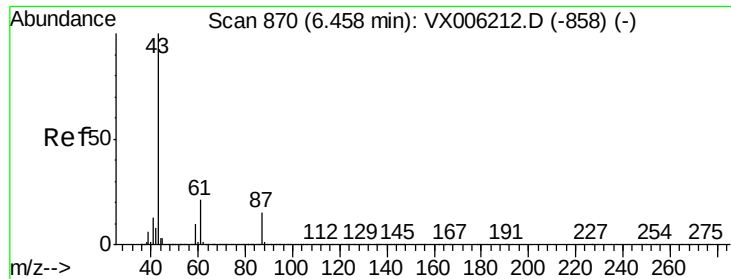
Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		162879		
98	10.5	0.0	20.2		





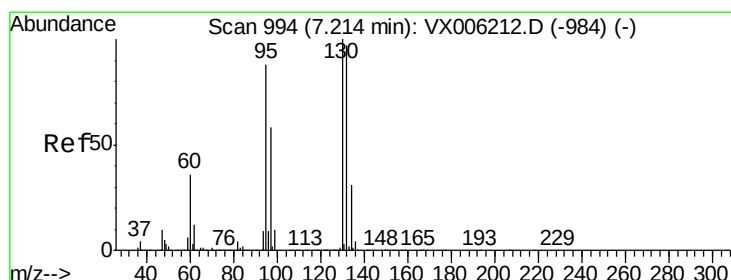
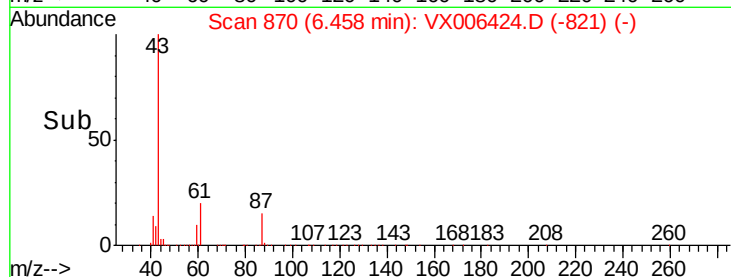
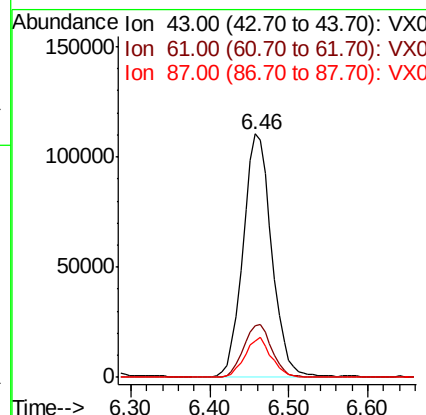
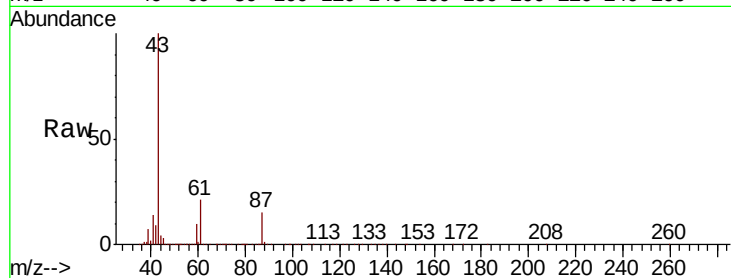
#43
Isopropyl Acetate
Concen: 18.504 ug/l
RT: 6.46 min Scan# 870
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.6	16.8	25.2
87	15.3	11.9	17.9

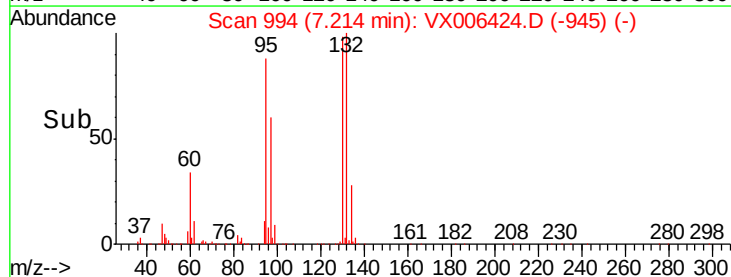
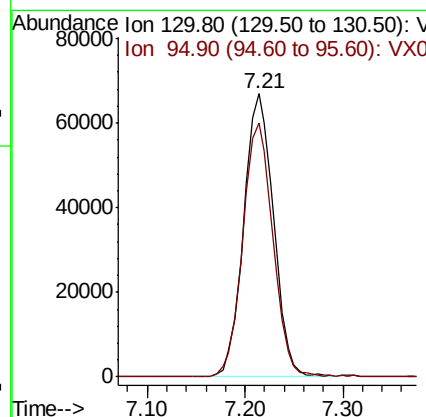
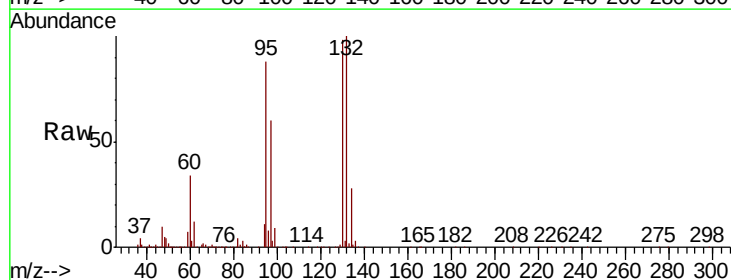
Manual Integrations
APPROVED

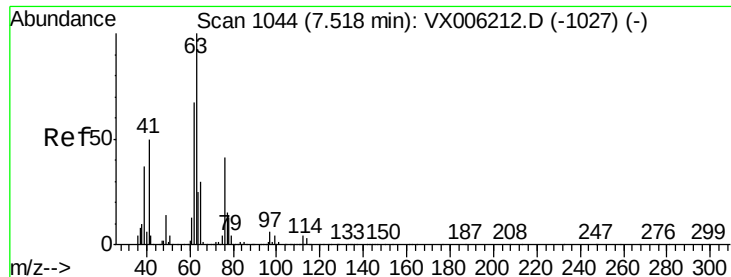
MMDadoda
12/12/2018 10:40:16 AM



#44
Trichloroethene
Concen: 19.452 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.5	0.0	175.8





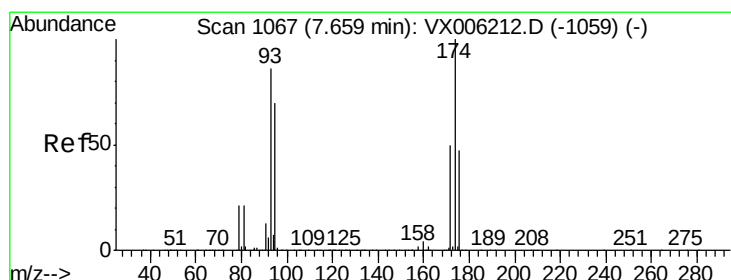
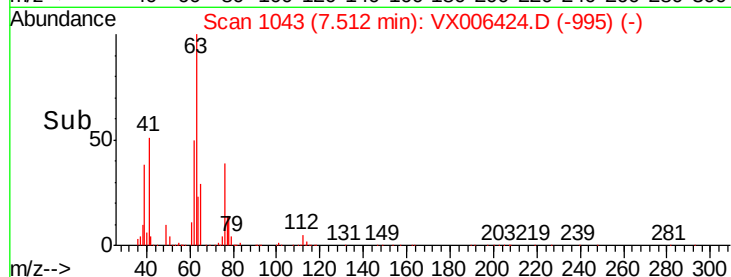
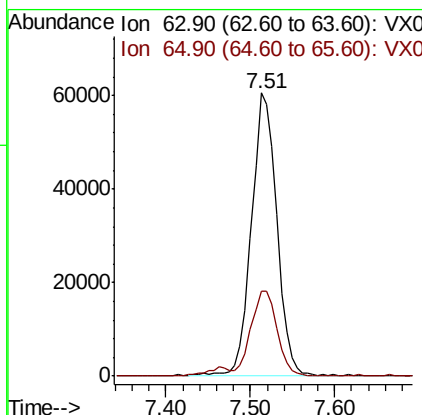
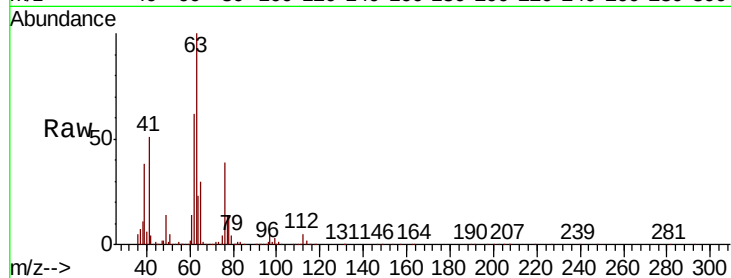
#45
 1,2-Dichloropropane
 Concen: 20.179 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	123512		
65	29.8		24.3	36.5

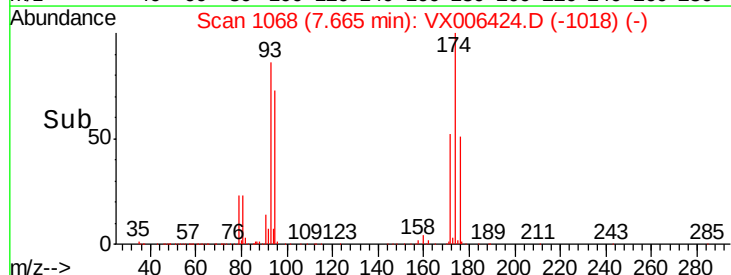
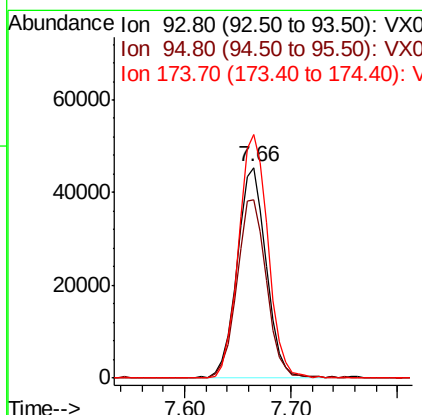
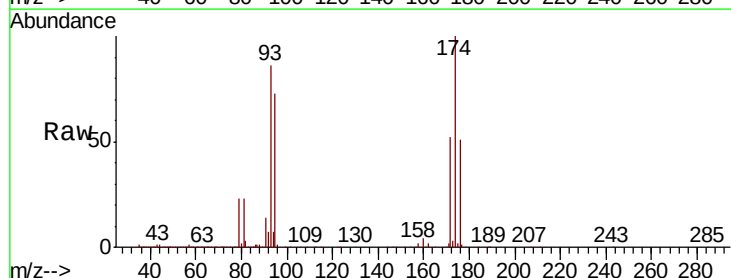
Manual Integrations
 APPROVED

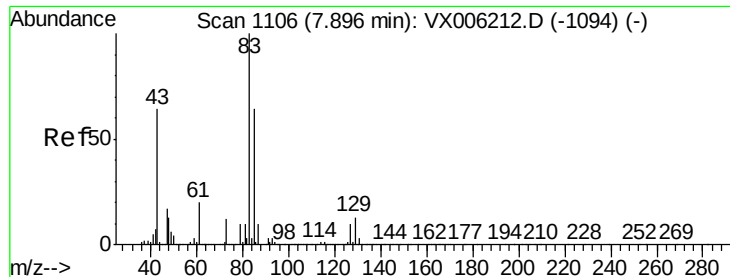
MMDadoda
 12/12/2018 10:40:16 AM



#46
 Dibromomethane
 Concen: 19.803 ug/l
 RT: 7.66 min Scan# 1068
 Delta R.T. 0.01 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	87539		
95	85.1		66.2	99.4
174	116.8		97.2	145.8





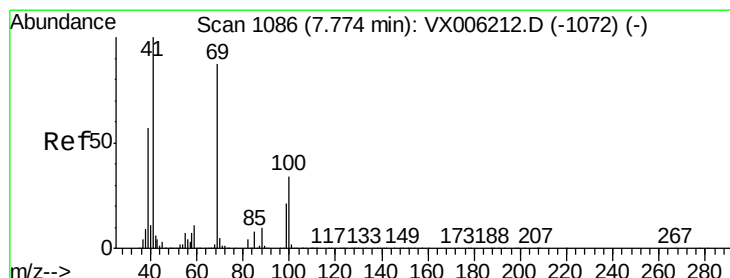
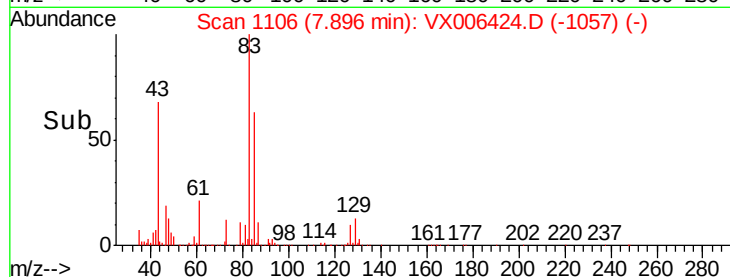
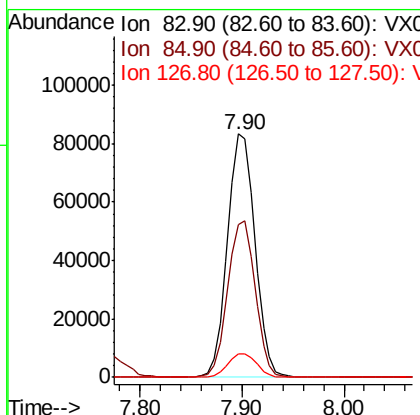
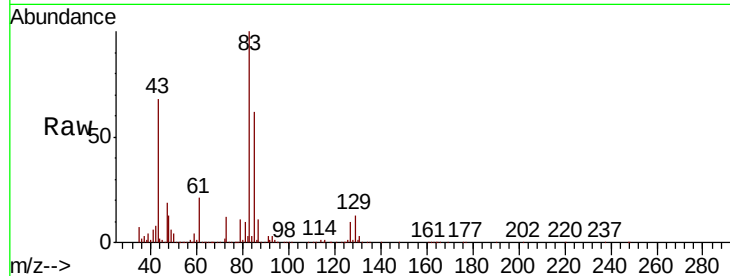
#47
Bromodichloromethane
Concen: 18.138 ug/l
RT: 7.90 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	155268		
85	62.5	51.4	77.0	
127	9.9	7.9	11.9	

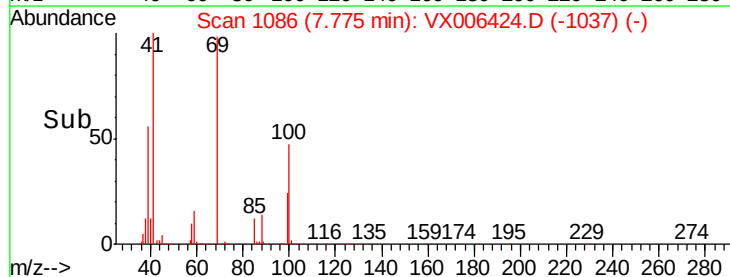
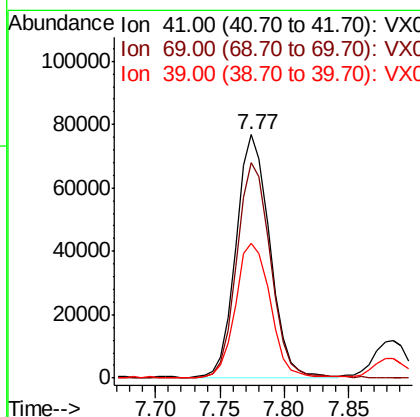
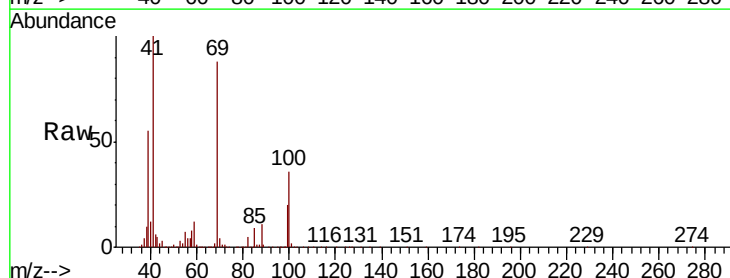
Manual Integrations
APPROVED

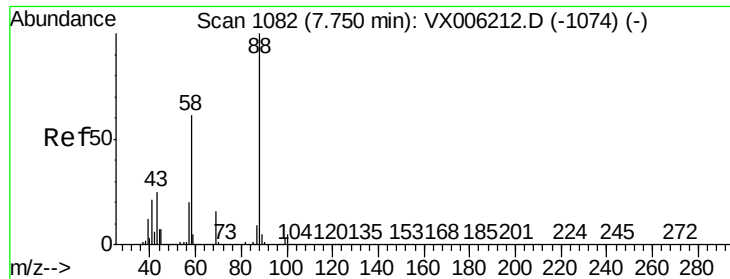
MMDadoda
12/12/2018 10:40:16 AM



#48
Methyl methacrylate
Concen: 18.958 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	138469		
69	90.3	70.3	105.5	
39	57.1	45.3	67.9	





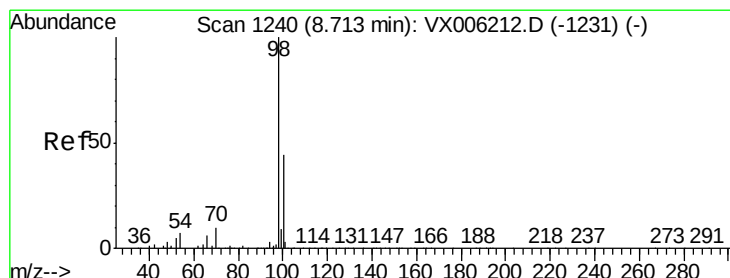
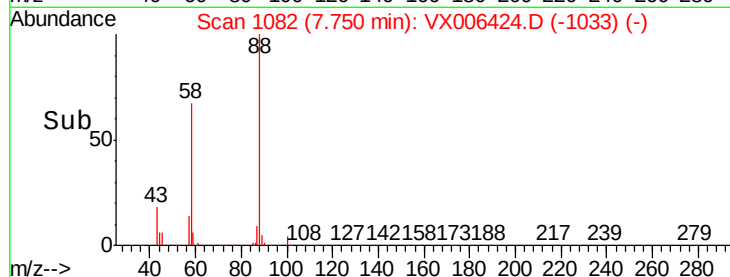
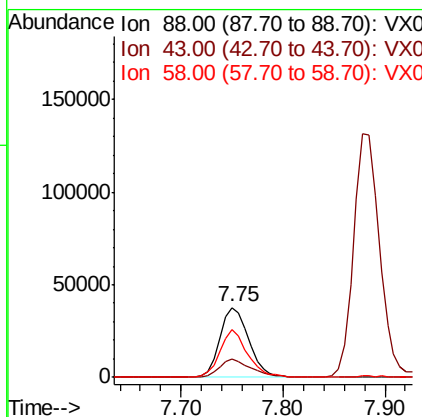
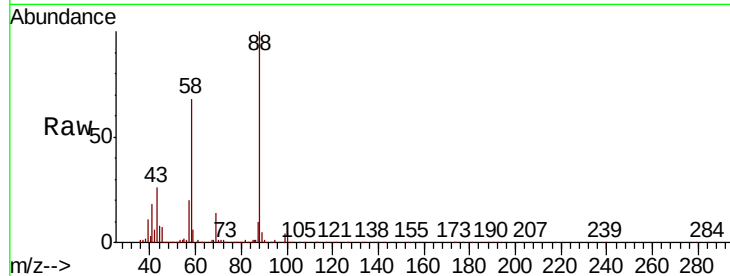
#49
1,4-Dioxane
Concen: 415.358 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.5	23.2	34.8
58	64.6	51.4	77.0

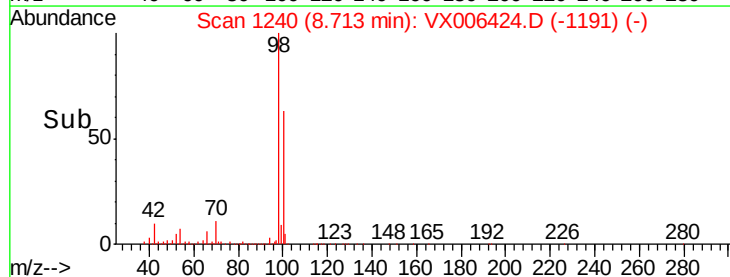
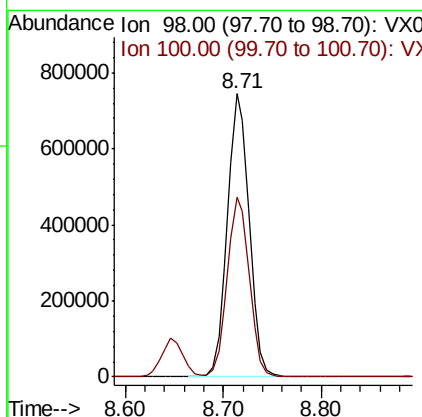
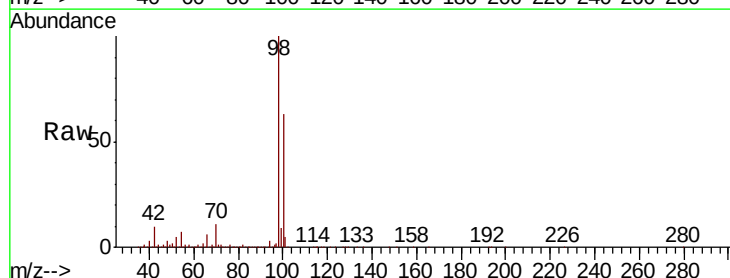
Manual Integrations
APPROVED

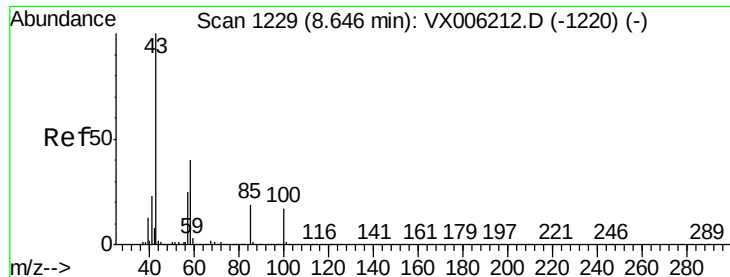
MMDadoda
12/12/2018 10:40:16 AM



#50
Toluene-d8
Concen: 51.167 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2





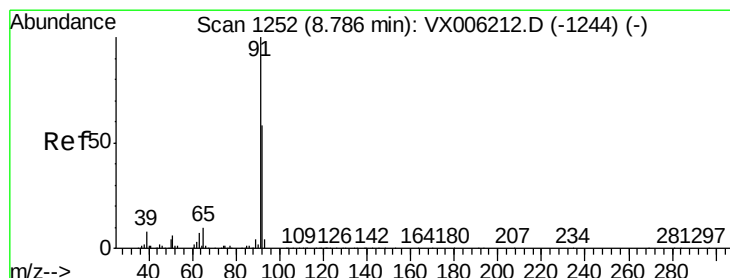
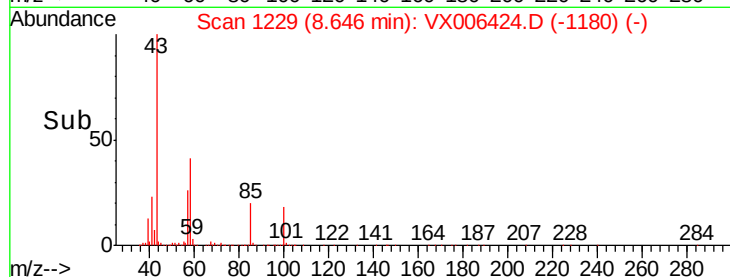
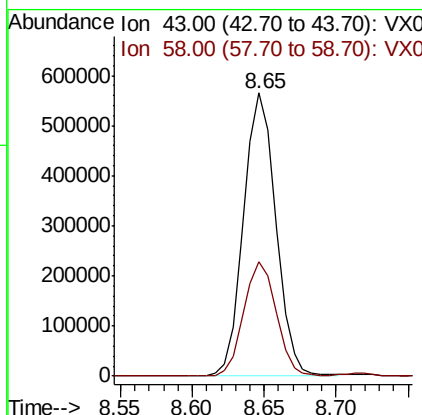
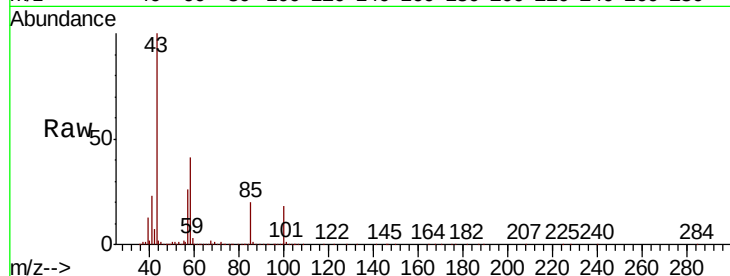
#51
4-Methyl-2-Pentanone
Concen: 100.410 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.7	31.3	46.9

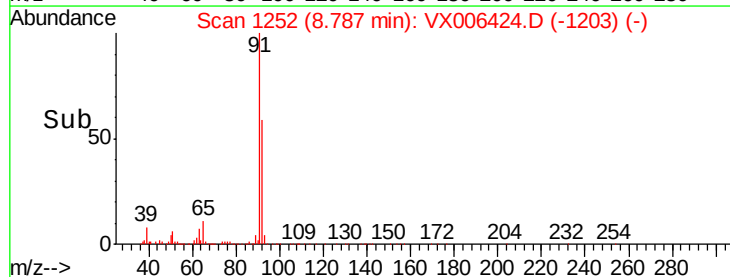
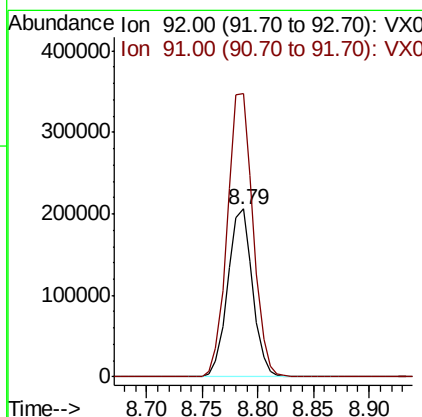
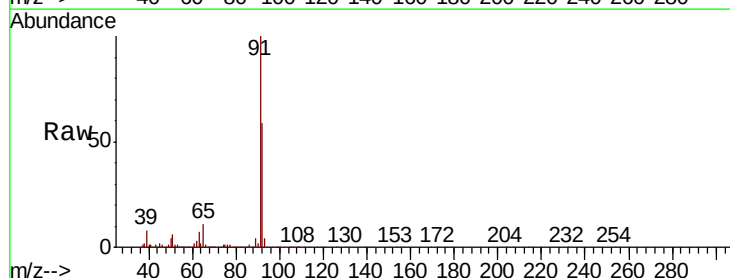
Manual Integrations
APPROVED

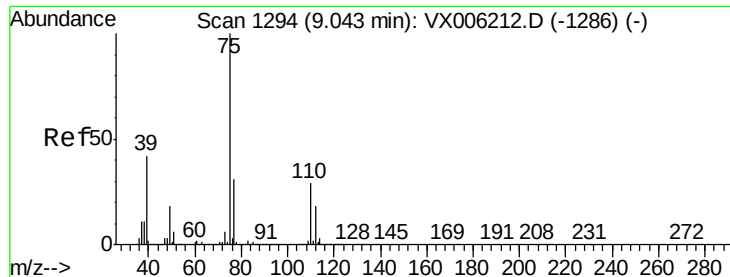
MMDadoda
12/12/2018 10:40:16 AM



#52
Toluene
Concen: 20.042 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.1	139.2	208.8





#53

t-1,3-Dichloropropene

Concen: 17.000 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 75 Resp: 170193

Ion Ratio Lower Upper

75 100

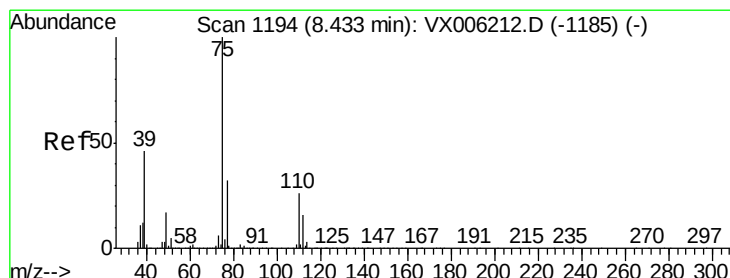
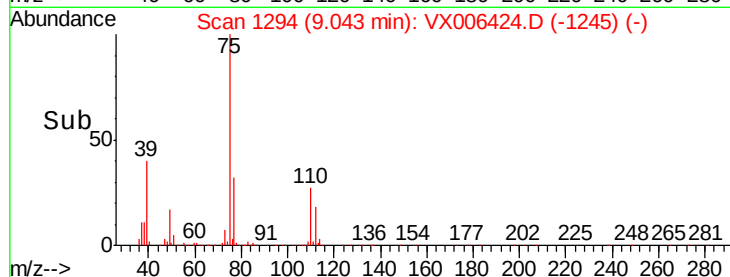
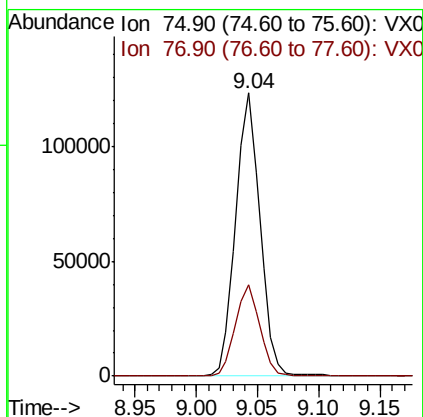
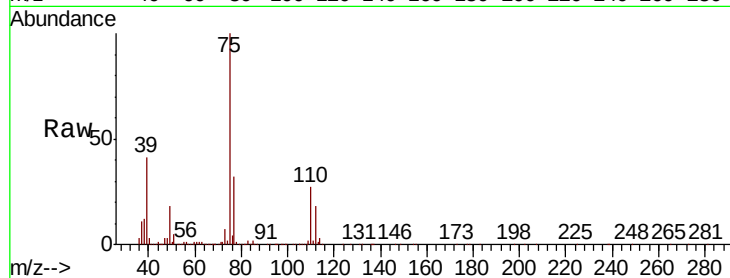
77 32.0 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

12/12/2018 10:40:16 AM



#54

cis-1,3-Dichloropropene

Concen: 17.904 ug/l

RT: 8.43 min Scan# 1194

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

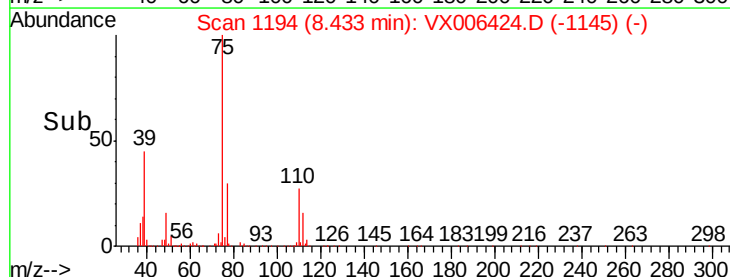
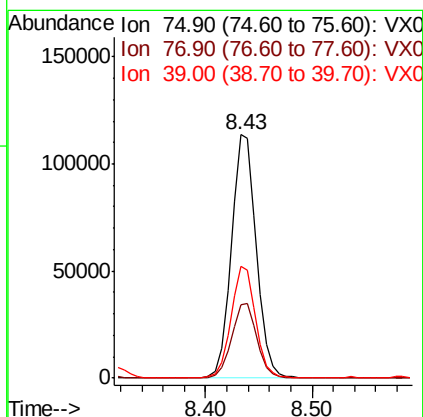
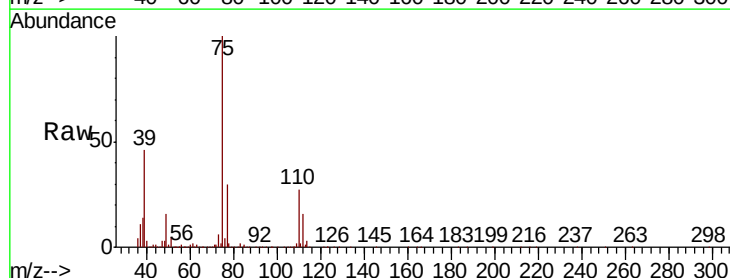
Tgt Ion: 75 Resp: 186127

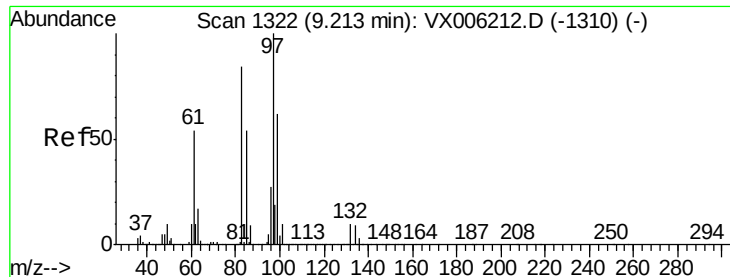
Ion Ratio Lower Upper

75 100

77 30.3 25.6 38.4

39 45.5 36.5 54.7





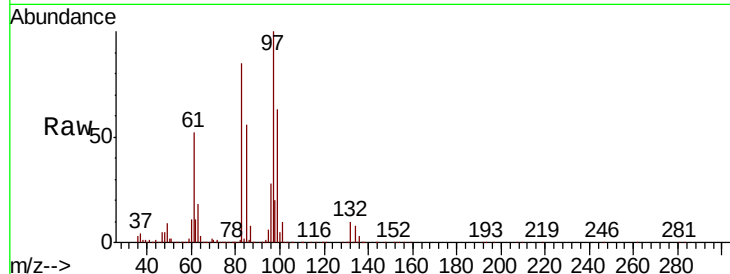
#55
 1,1,2-Trichloroethane
 Concen: 21.078 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

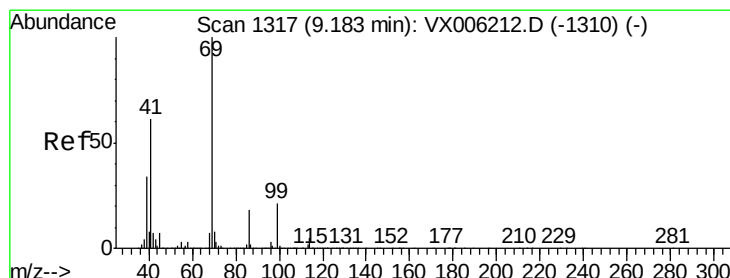
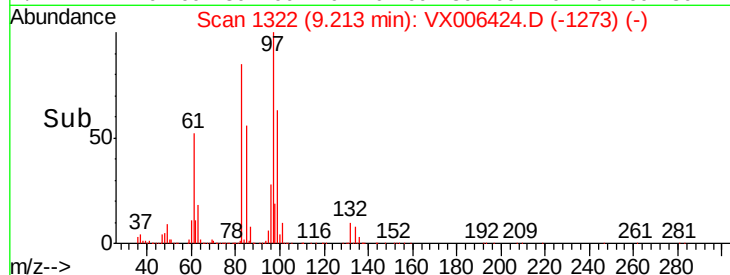
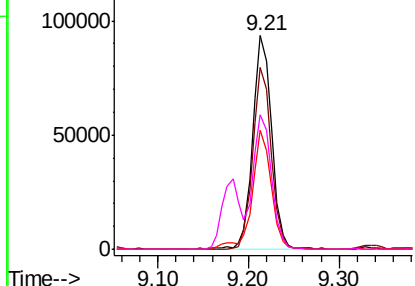
Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		135677		
83	84.9	67.1	100.7		
85	55.7	43.2	64.8		
99	62.8	49.8	74.6		

Manual Integrations
 APPROVED

MMDadoda
 12/12/2018 10:40:16 AM

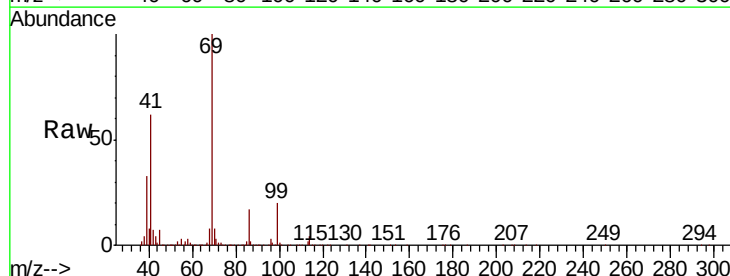


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

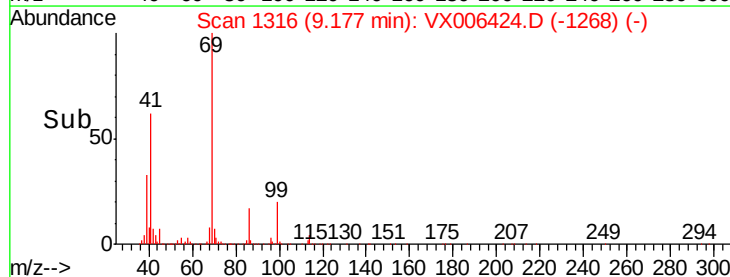
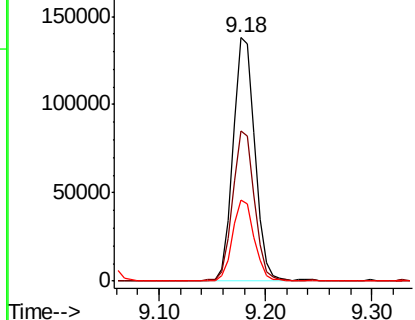


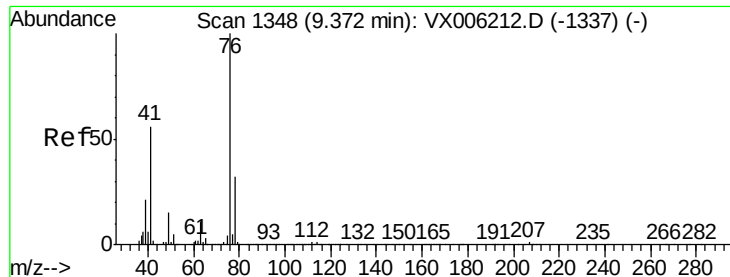
#56
 Ethyl methacrylate
 Concen: 19.824 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		199484		
41	60.6	50.6	76.0		
39	33.0	27.6	41.4		



Abundance Ion 69.00 (68.70 to 69.70): VX0
 Ion 41.00 (40.70 to 41.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0





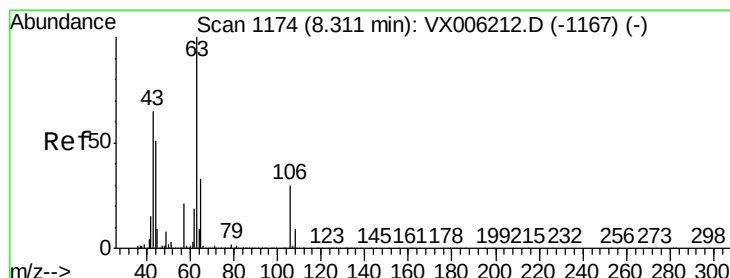
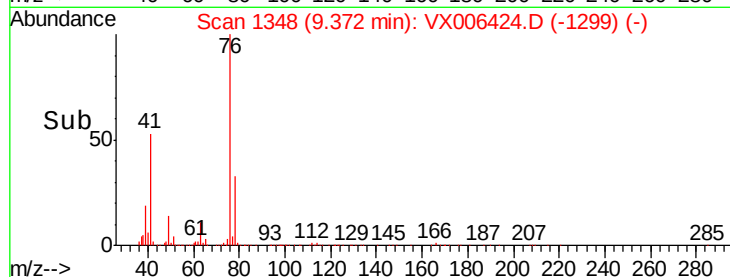
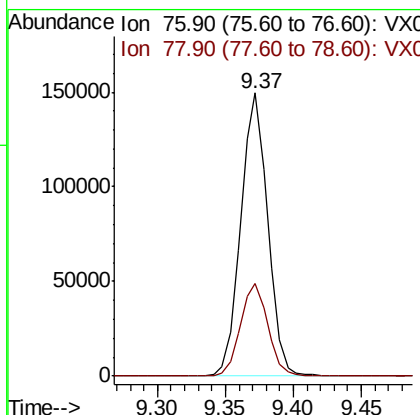
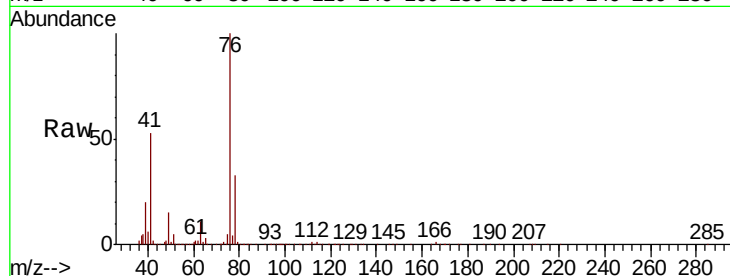
#57
 1,3-Dichloropropane
 Concen: 20.330 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.6	26.1	39.1

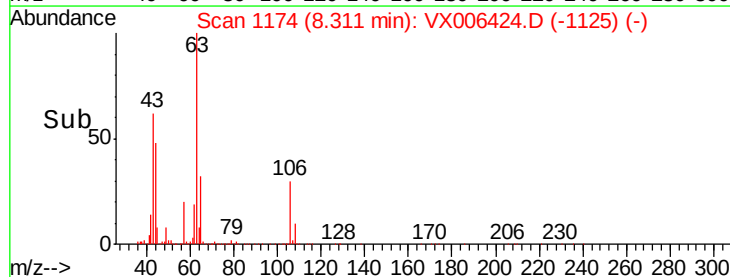
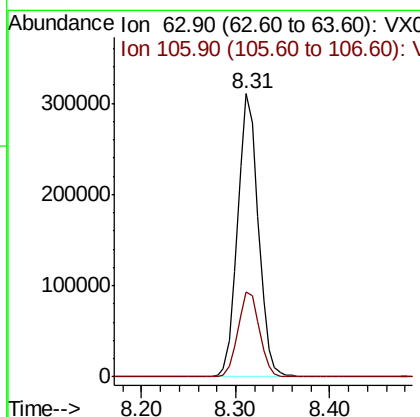
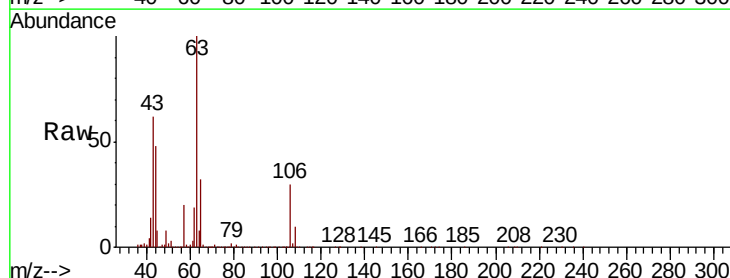
Manual Integrations
 APPROVED

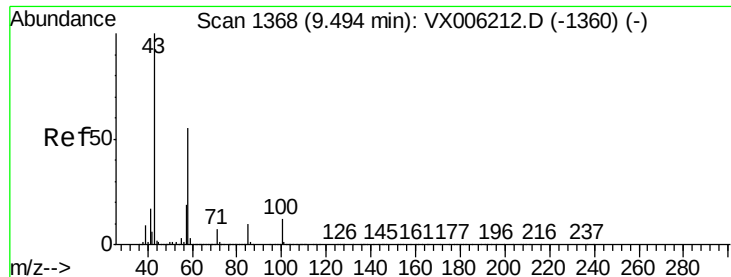
MMDadoda
 12/12/2018 10:40:16 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 92.711 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
63	100		
106	31.1	24.9	37.3





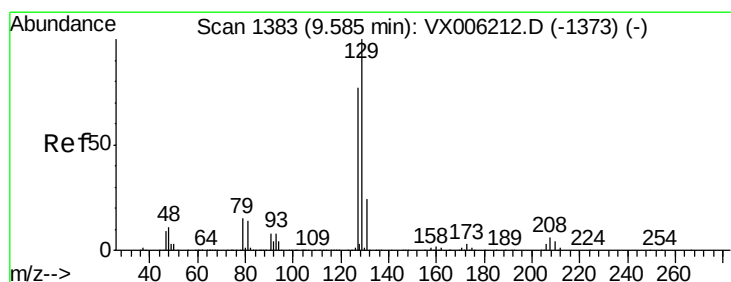
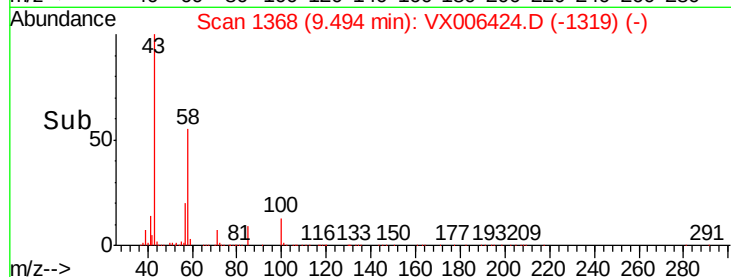
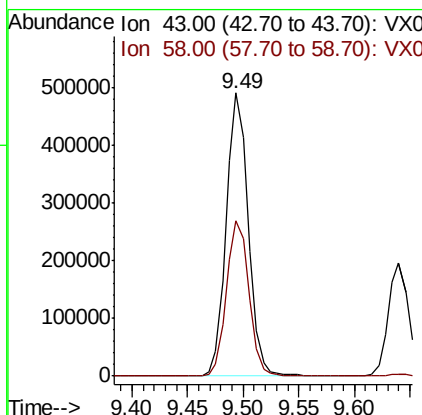
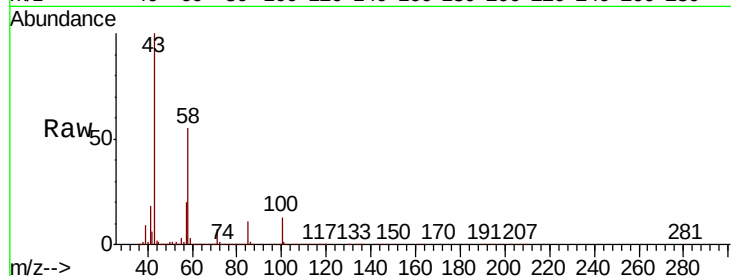
#59
2-Hexanone
Concen: 100.353 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion: 43 Resp: 670089
Ion Ratio Lower Upper
43 100
58 56.1 27.7 83.1

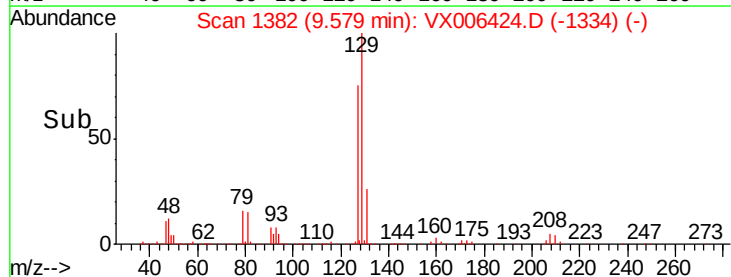
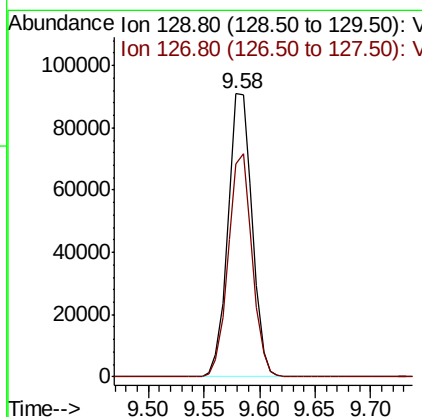
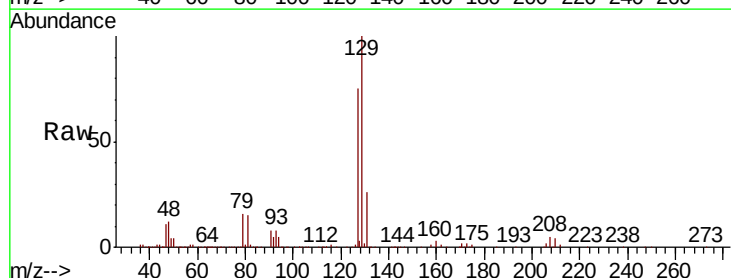
Manual Integrations
APPROVED

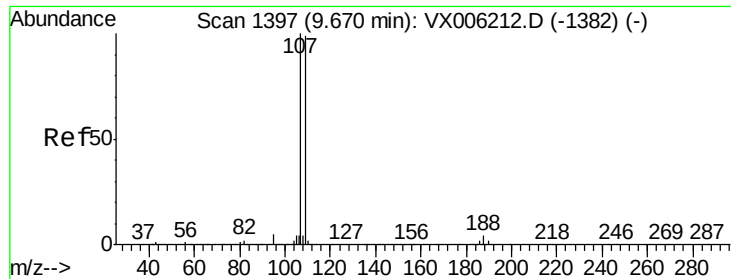
MMDadoda
12/12/2018 10:40:16 AM



#60
Dibromochloromethane
Concen: 17.272 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.01 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion: 129 Resp: 137091
Ion Ratio Lower Upper
129 100
127 77.6 38.6 115.8





#61

1,2-Dibromoethane

Concen: 19.983 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 107 Resp: 143822

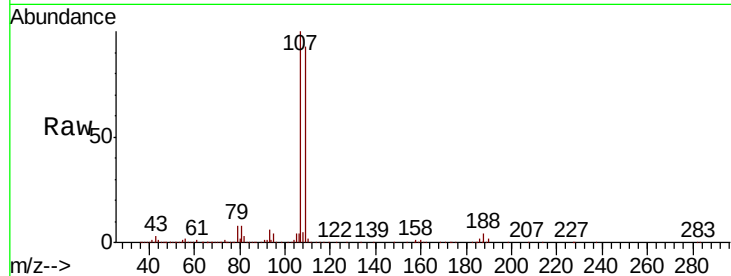
Ion Ratio Lower Upper

107 100

109 95.2 76.3 114.5

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

120000

100000

80000

60000

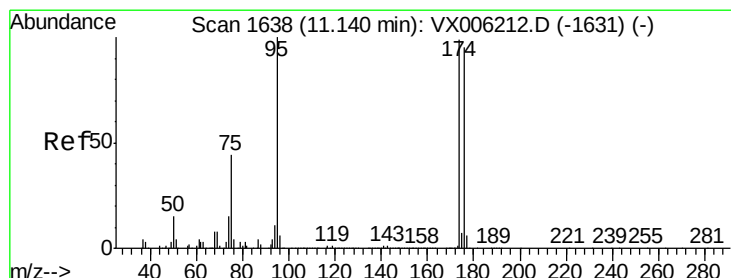
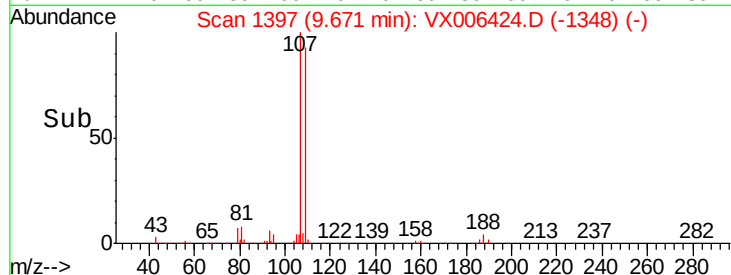
40000

20000

0

9.60 9.65 9.70 9.75

Time-->



#62

4-Bromofluorobenzene

Concen: 52.269 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

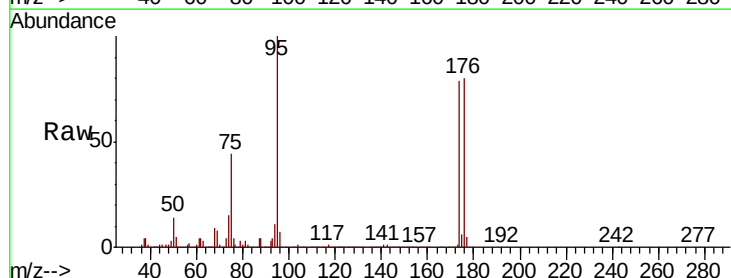
Tgt Ion: 95 Resp: 442923

Ion Ratio Lower Upper

95 100

174 89.2 0.0 187.0

176 87.7 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

400000

300000

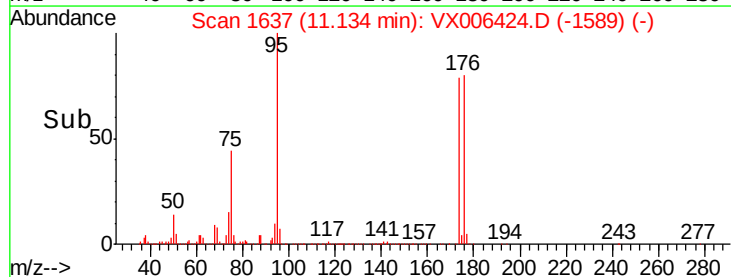
200000

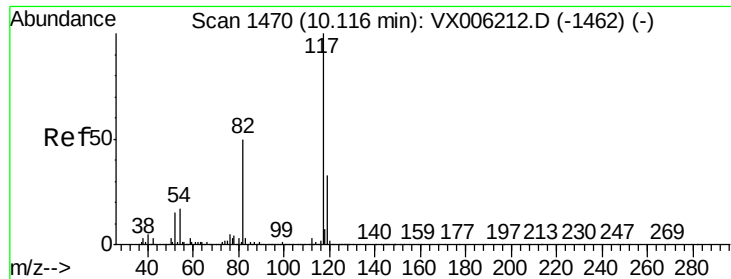
100000

0

11.10 11.13 11.16 11.19 11.22

Time-->





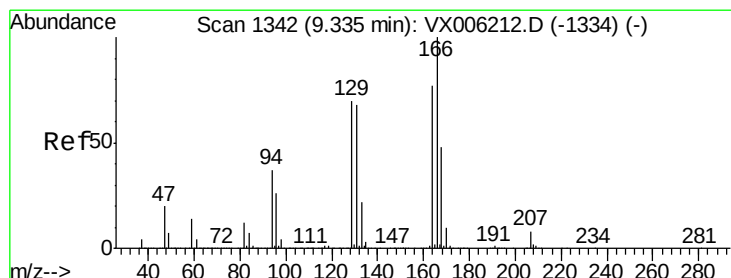
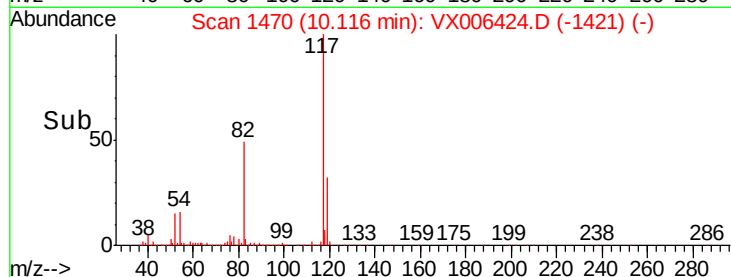
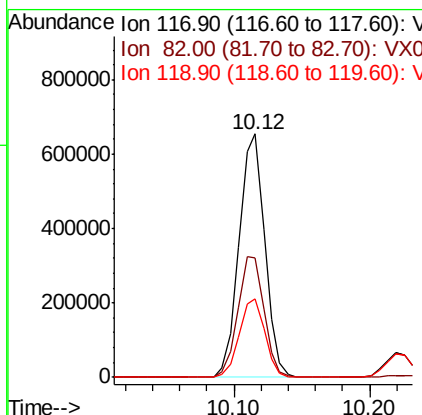
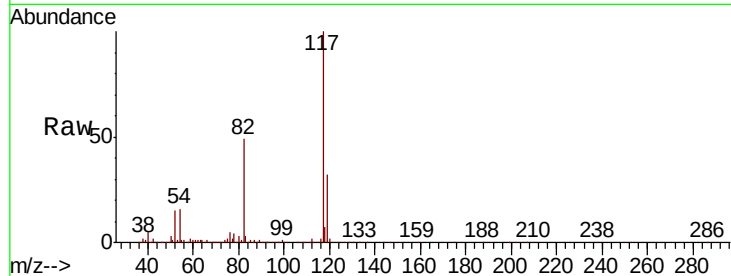
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	48.9	39.6	59.4
119	32.3	26.3	39.5

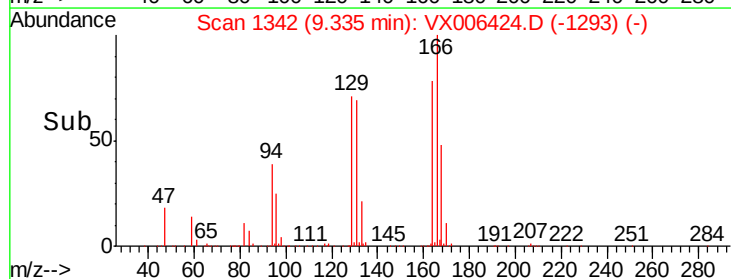
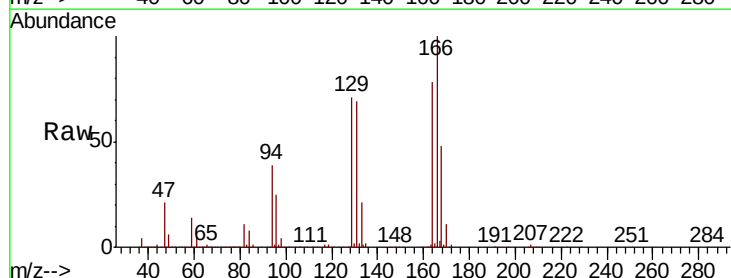
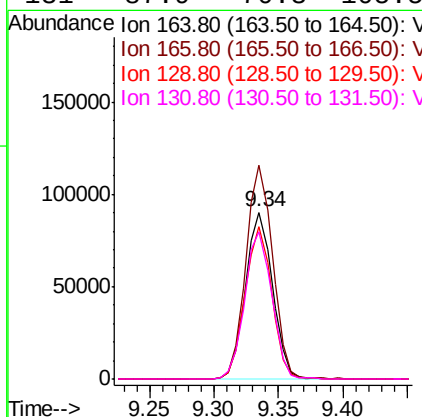
Manual Integrations
APPROVED

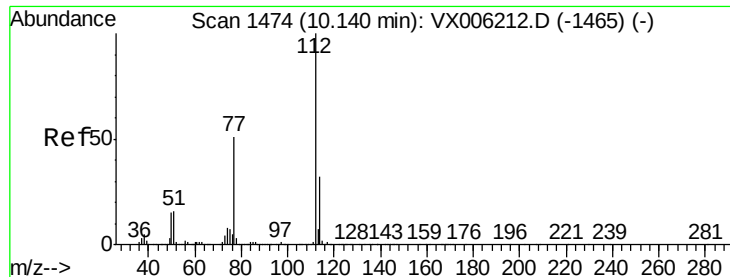
MMDadoda
12/12/2018 10:40:16 AM



#64
Tetrachloroethene
Concen: 20.076 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	104.2	156.2
129	91.0	72.6	108.8
131	87.9	70.3	105.5





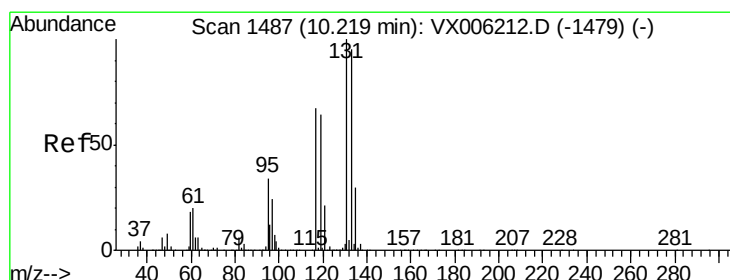
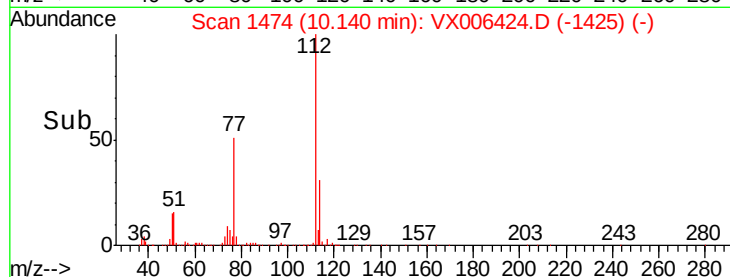
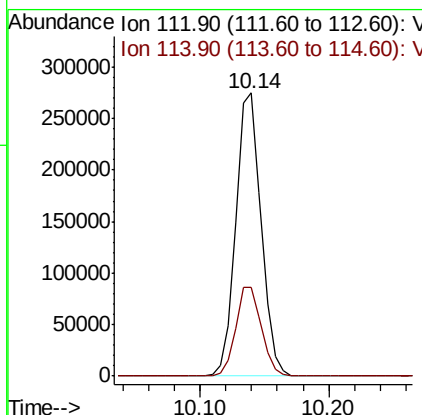
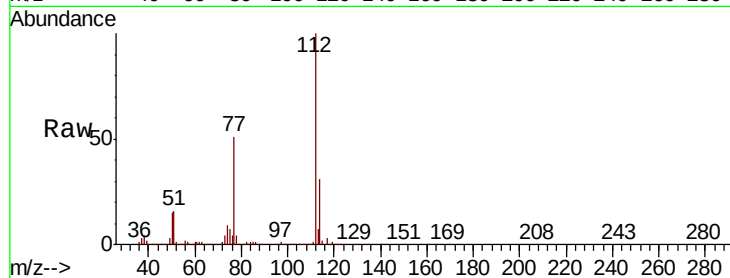
#65
Chlorobenzene
Concen: 20.496 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.4	38.2

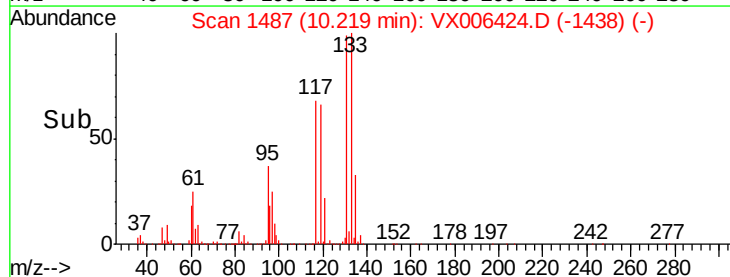
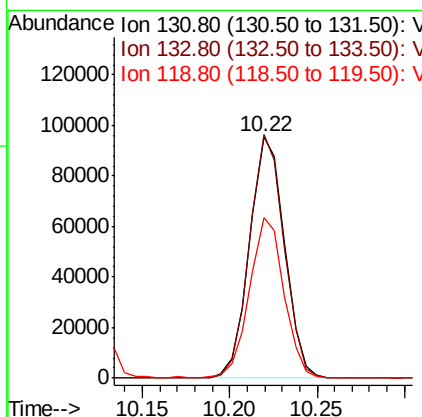
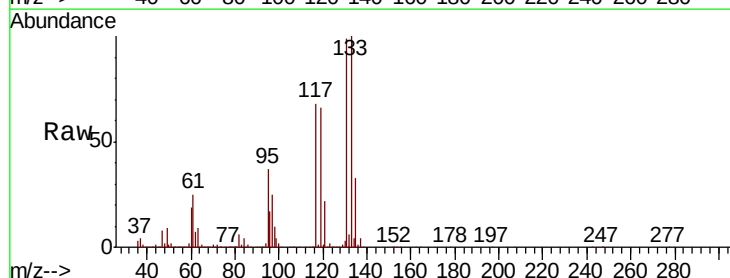
Manual Integrations
APPROVED

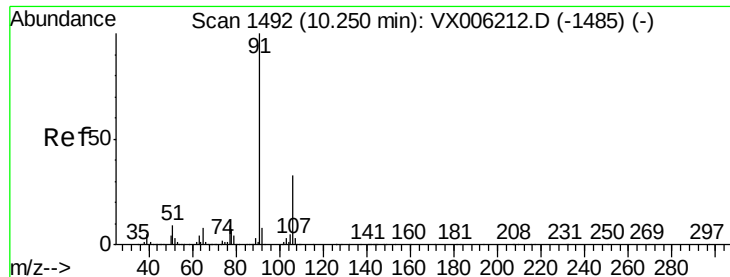
MMDadoda
12/12/2018 10:40:16 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.771 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.7	48.1	144.4
119	64.9	32.1	96.3





#67

Ethyl Benzene

Concen: 20.274 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 91 Resp: 617577

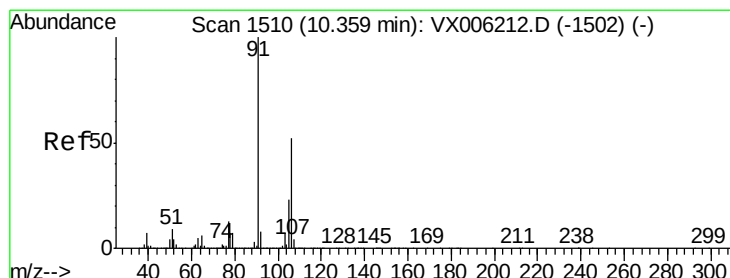
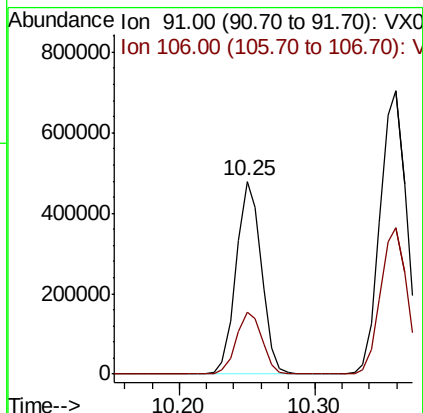
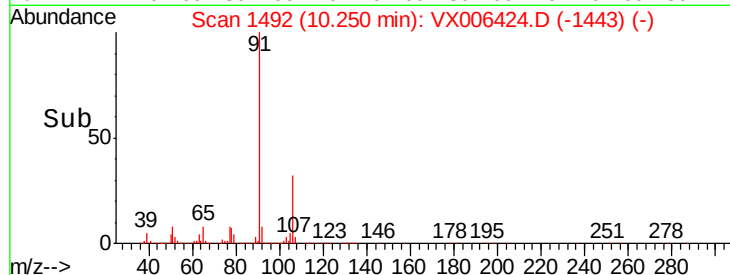
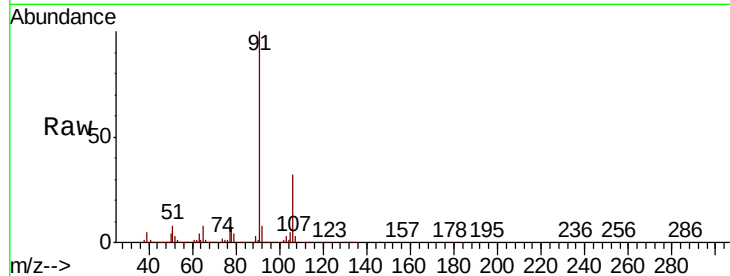
Ion Ratio Lower Upper

91 100

106 32.2 26.5 39.7

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#68

m/p-Xylenes

Concen: 40.321 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX006424.D

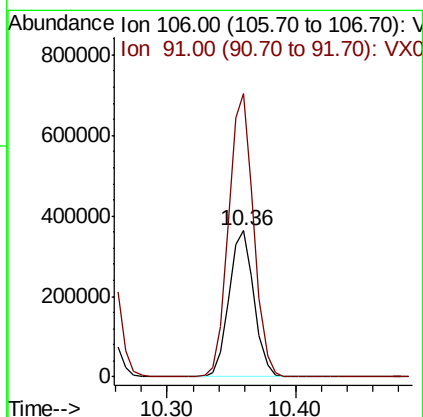
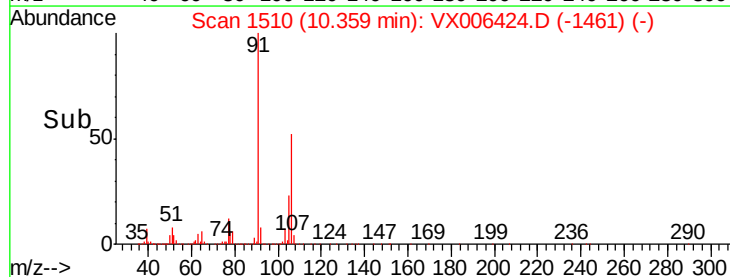
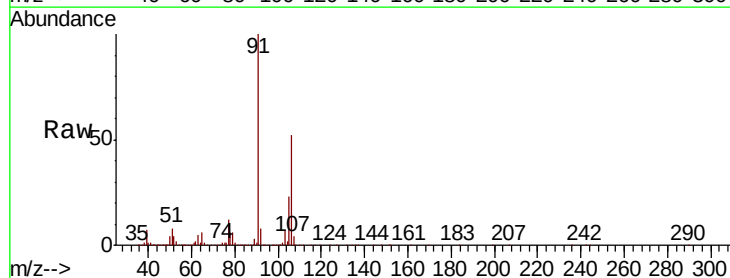
Acq: 11 Dec 2018 16:51

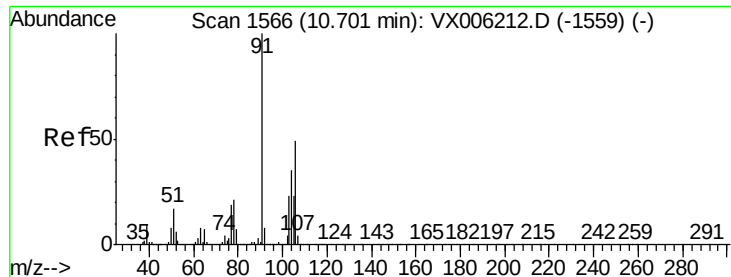
Tgt Ion: 106 Resp: 492000

Ion Ratio Lower Upper

106 100

91 194.1 155.2 232.8





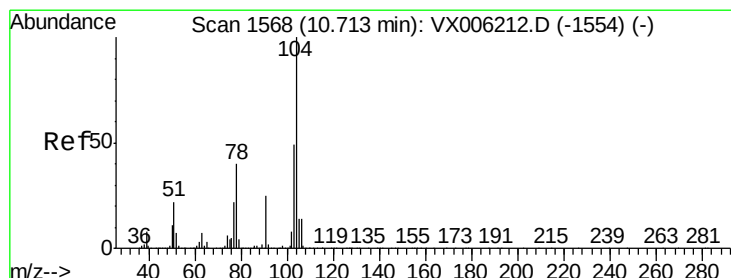
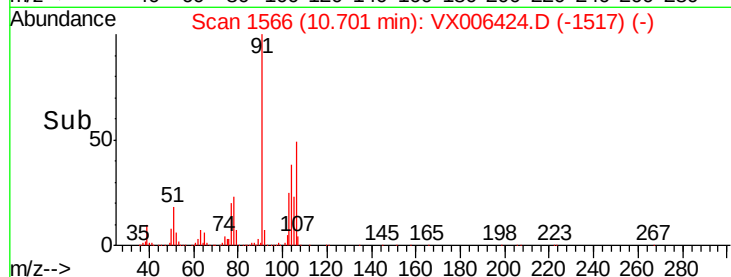
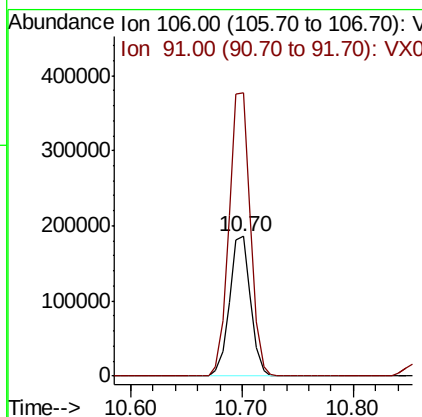
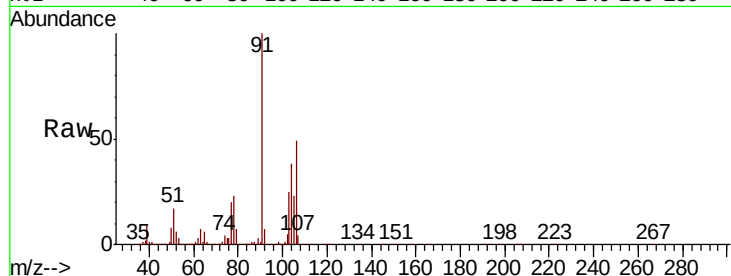
#69
o-Xylene
Concen: 20.066 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	205.6	101.8	305.6

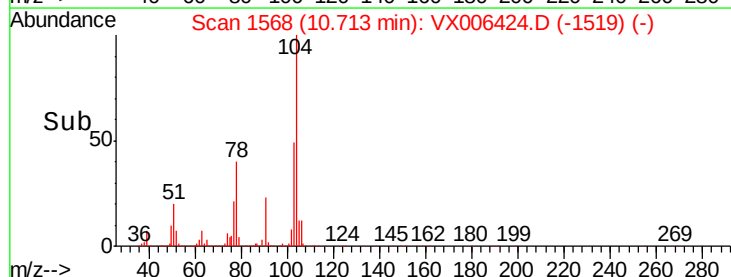
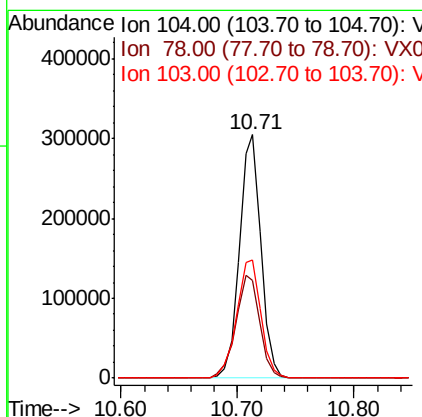
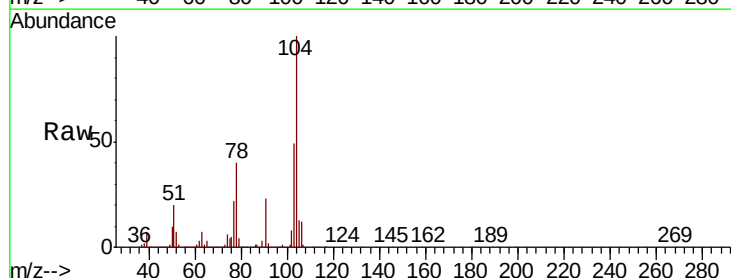
Manual Integrations
APPROVED

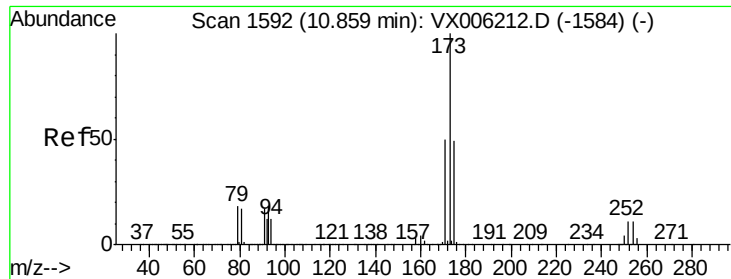
MMDadoda
12/12/2018 10:40:16 AM



#70
Styrene
Concen: 20.081 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.2	37.2	55.8
103	55.2	43.5	65.3





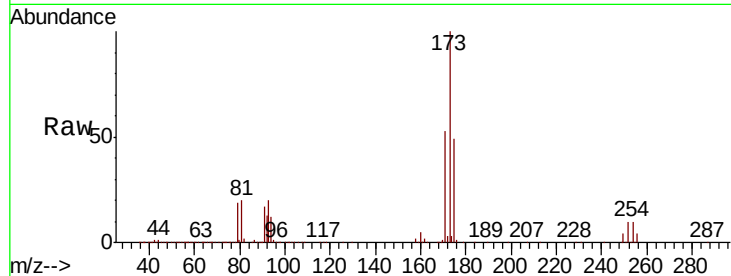
#71
Bromoform
Concen: 15.289 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	73.8
254	0.1	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM

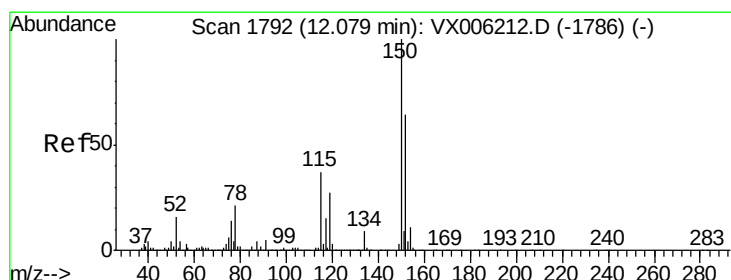
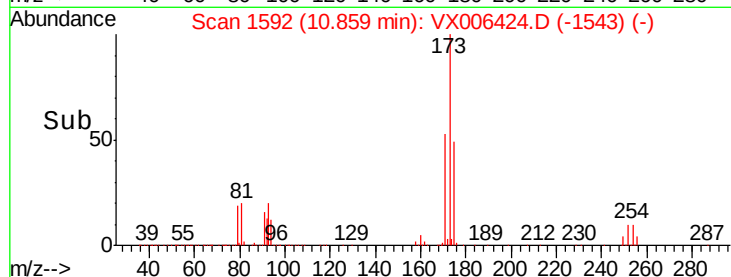
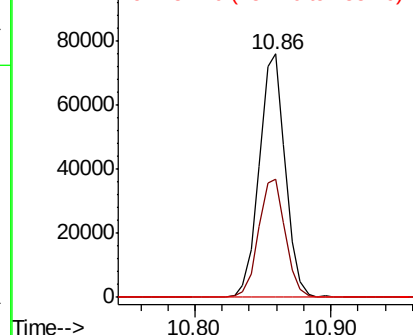


Abundance

Ion 172.70 (172.40 to 173.40): V

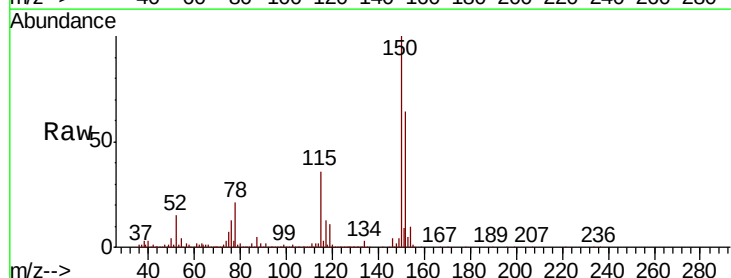
Ion 174.70 (174.40 to 175.40): V

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: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.8	39.0	116.9
150	163.7	0.0	345.8

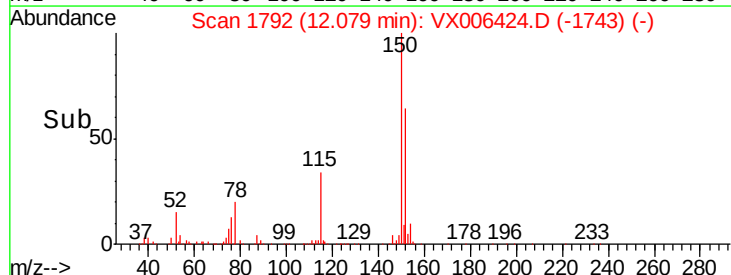
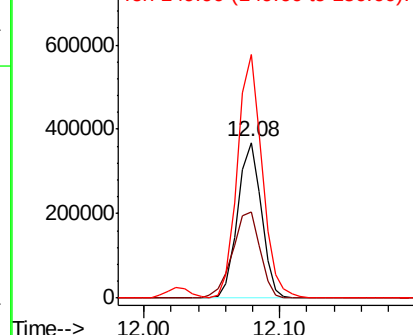


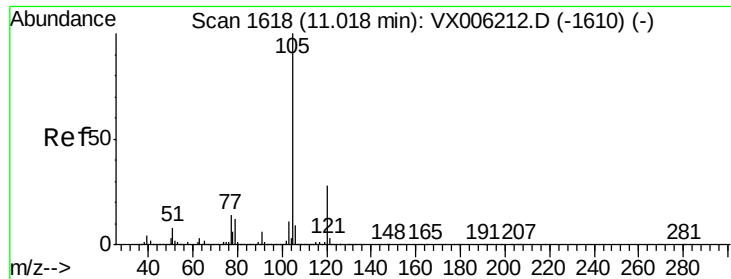
Abundance

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: 20.797 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 105 Resp: 642961

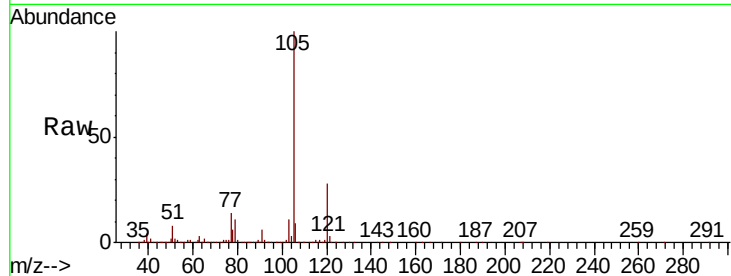
Ion Ratio Lower Upper

105 100

120 28.2 14.1 42.3

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

200000

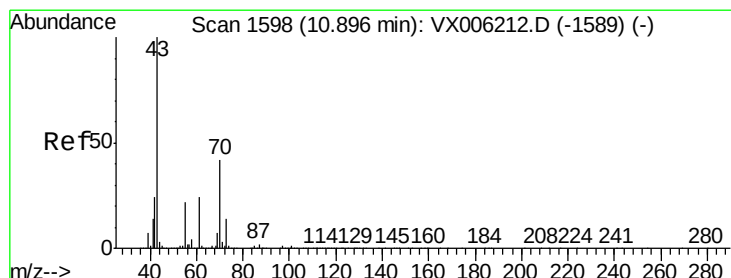
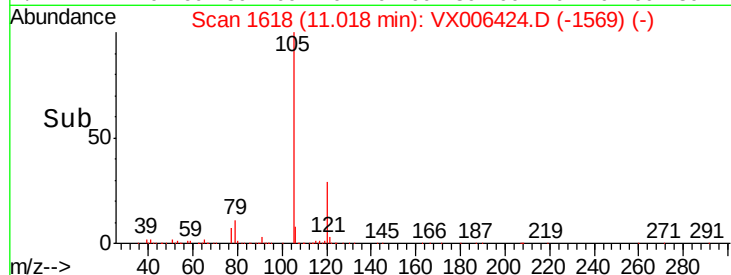
100000

0

11.02

11.10

Time-->



#74

N-ethyl acetate

Concen: 18.675 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion: 43 Resp: 248628

Ion Ratio Lower Upper

43 100

70 44.6 34.1 51.1

55 24.6 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

300000

200000

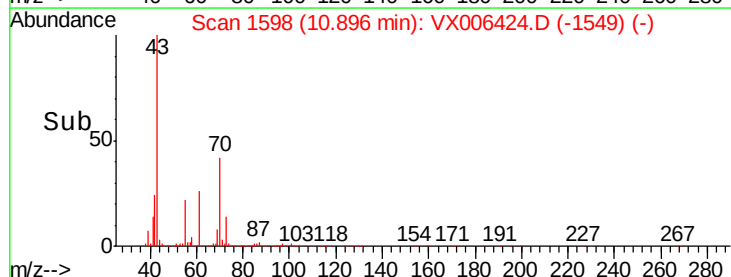
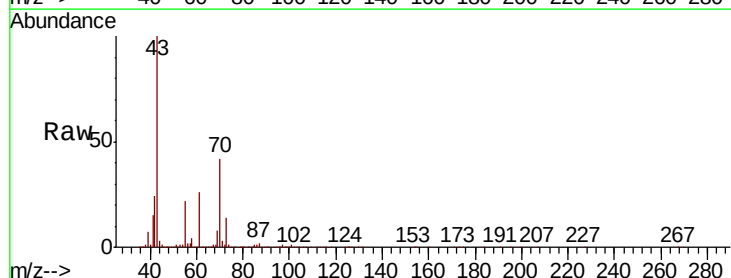
100000

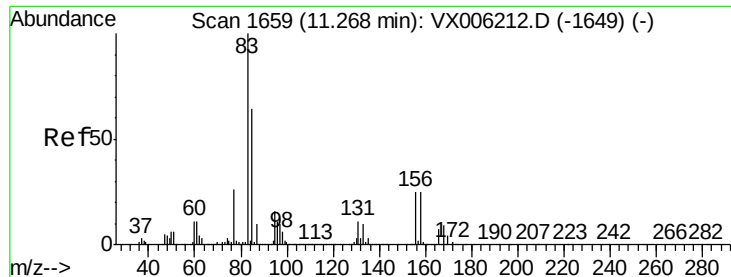
0

10.90

11.00

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.024 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

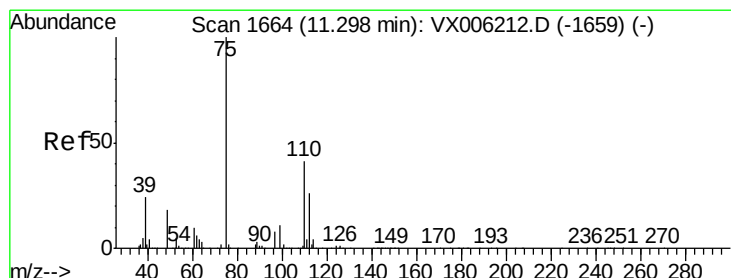
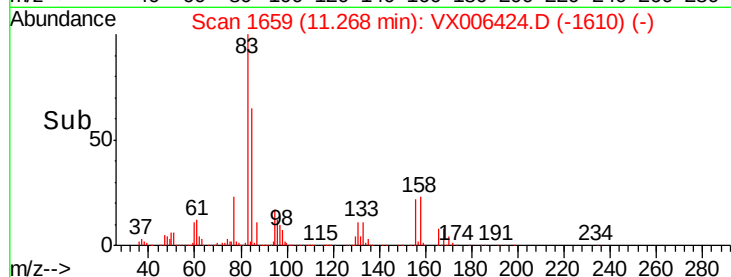
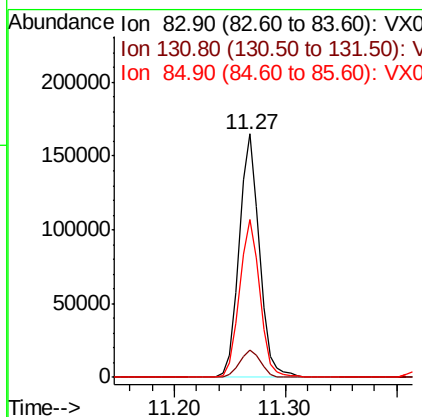
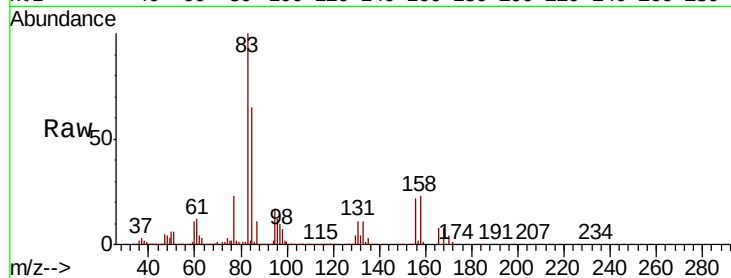
ClientSampleId :

VX1211WBSD01

Tot Ion:	83	Resp:	207945
Ion Ratio	Lower	Upper	
83	100		
131	11.8	5.7	17.1
85	65.1	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#76

1,2,3-Trichloropropane

Concen: 22.216 ug/l m

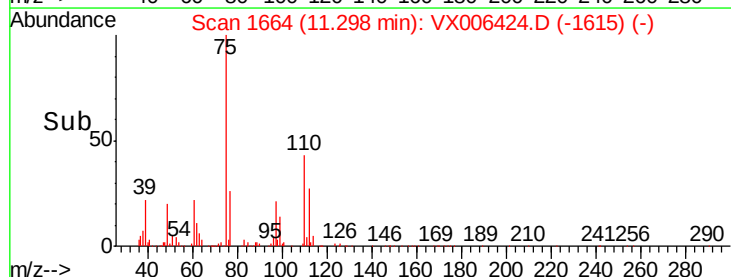
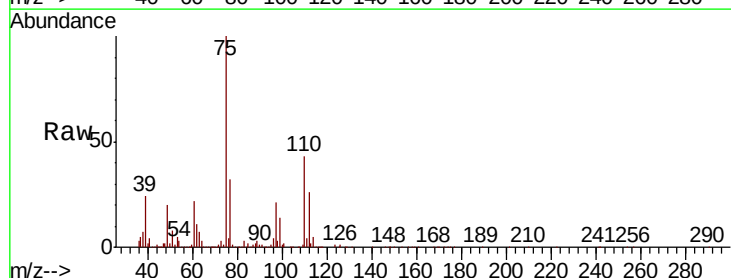
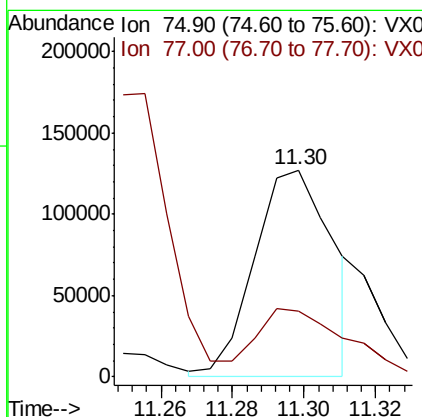
RT: 11.30 min Scan# 1664

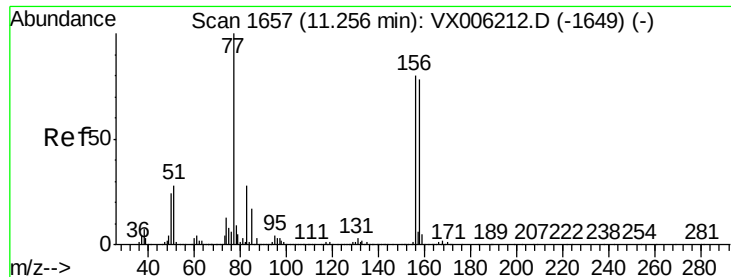
Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion:	75	Resp:	191967
Ion Ratio	Lower	Upper	
75	100		
77	37.9	19.9	59.7





#77

Bromobenzene

Concen: 20.422 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 156 Resp: 175217

Ion Ratio Lower Upper

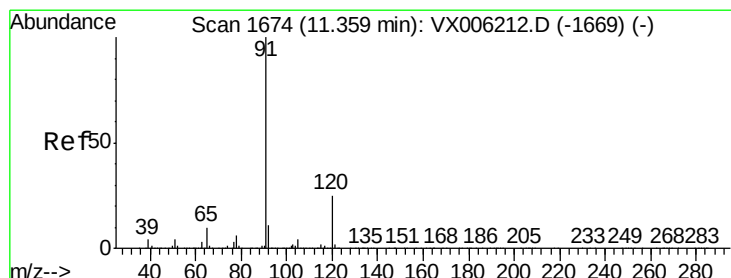
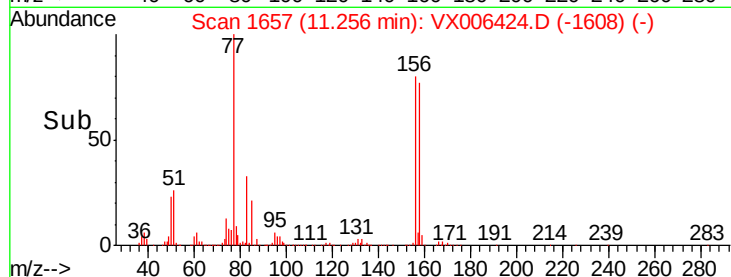
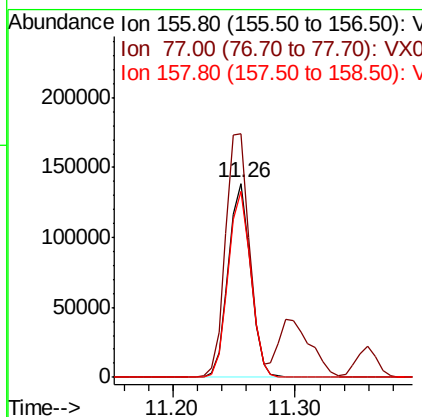
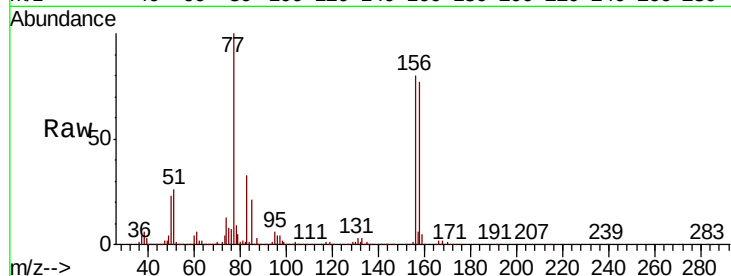
156 100

77 133.0 66.2 198.6

158 97.2 48.8 146.4

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#78

n-propylbenzene

Concen: 20.302 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX006424.D

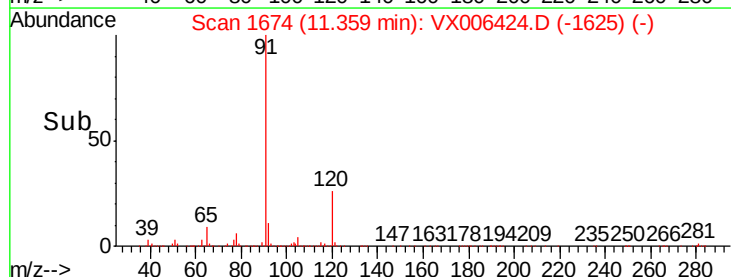
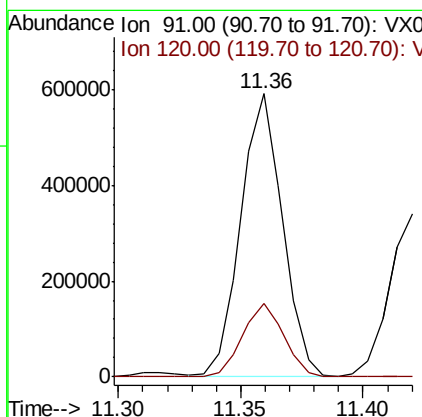
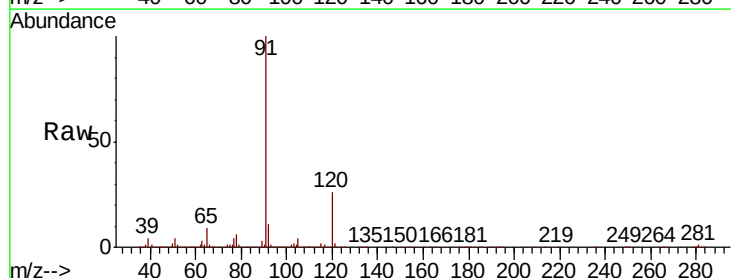
Acq: 11 Dec 2018 16:51

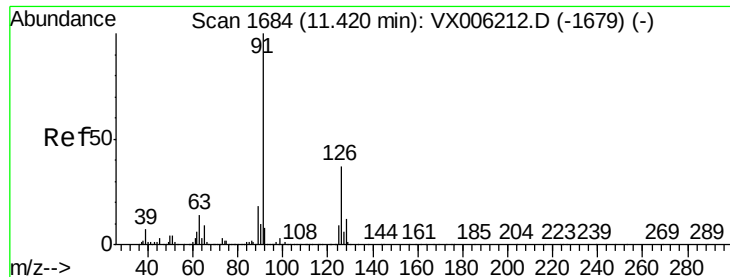
Tgt Ion: 91 Resp: 697709

Ion Ratio Lower Upper

91 100

120 25.8 12.7 38.0





#79

2-Chlorotoluene

Concen: 20.473 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion: 91 Resp: 418188

Ion Ratio Lower Upper

91 100

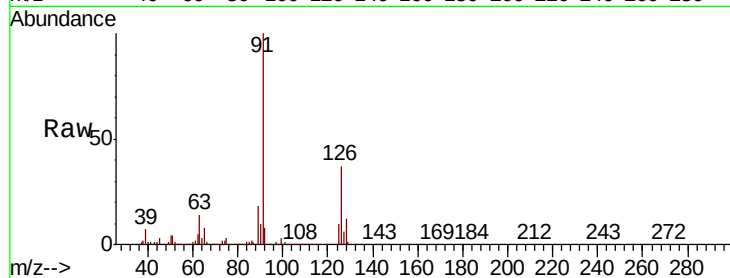
126 37.5 18.6 56.0

Manual Integrations

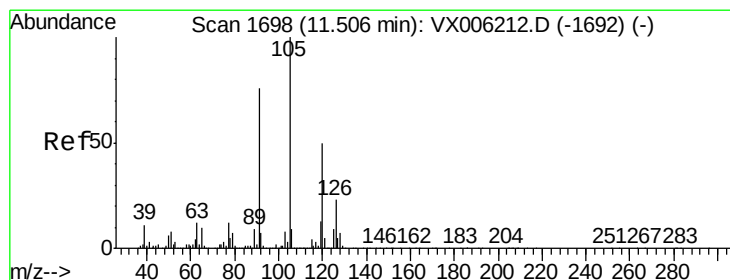
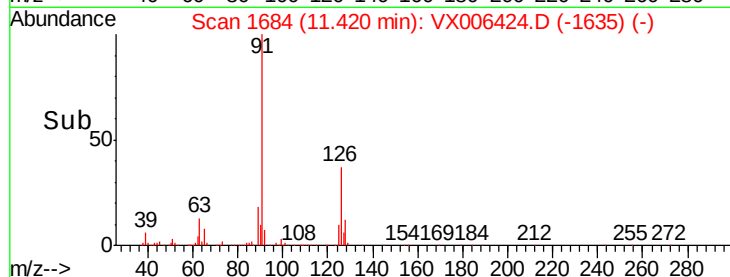
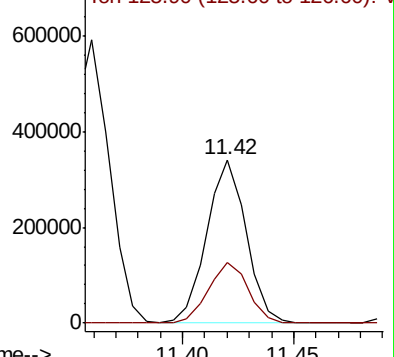
APPROVED

MMDadoda

12/12/2018 10:40:16 AM



Abundance Ion 91.00 (90.70 to 91.70): VX006424.D (-1679) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.003 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX006424.D

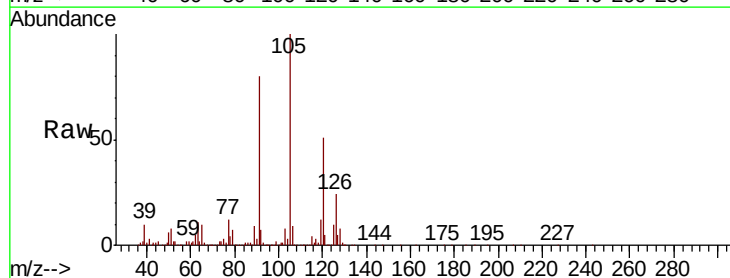
Acq: 11 Dec 2018 16:51

Tgt Ion: 105 Resp: 540275

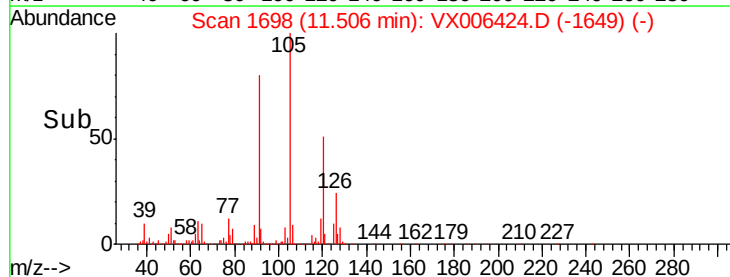
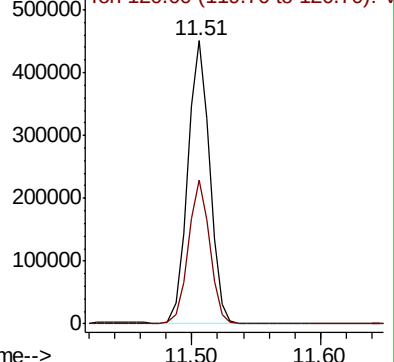
Ion Ratio Lower Upper

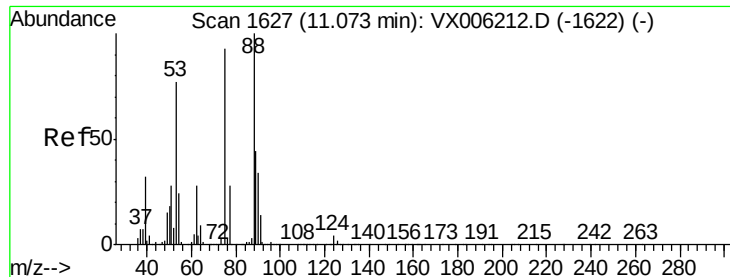
105 100

120 49.6 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): VX006424.D (-1692) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 15.190 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

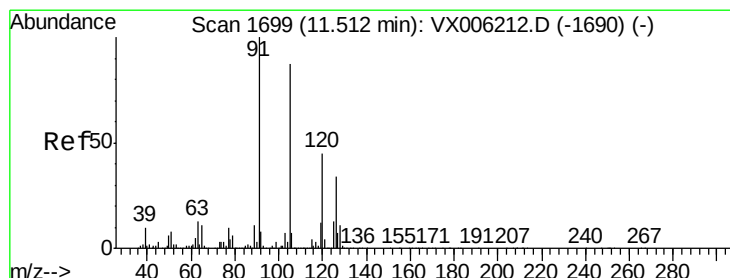
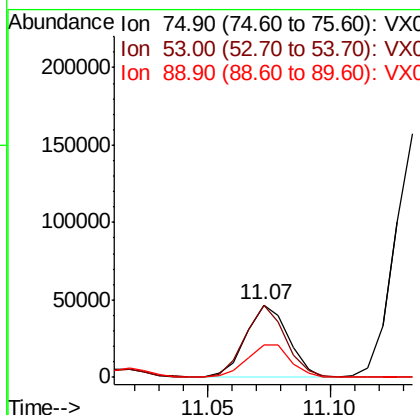
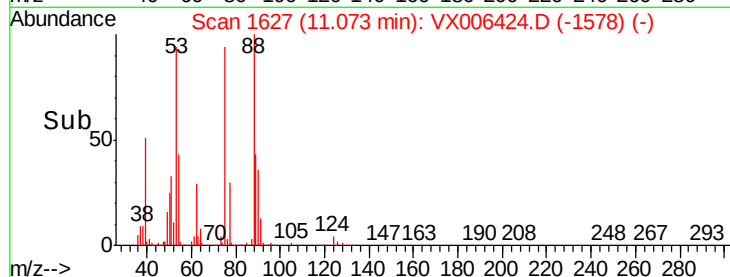
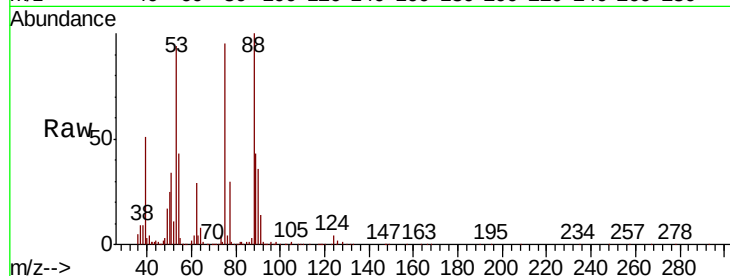
ClientSampleId :

VX1211WBSD01

Tot Ion:	75	Resp:	55933
Ion Ratio	Lower	Upper	
75	100		
53	96.3	64.4	96.6
89	47.3	44.2	66.4

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#82

4-Chlorotoluene

Concen: 20.472 ug/l

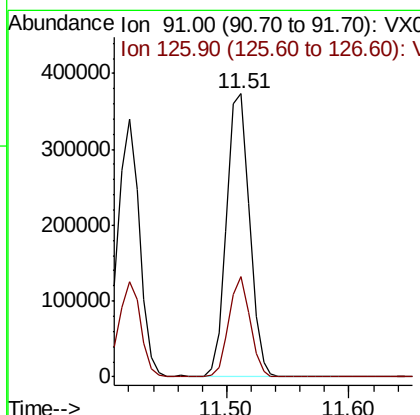
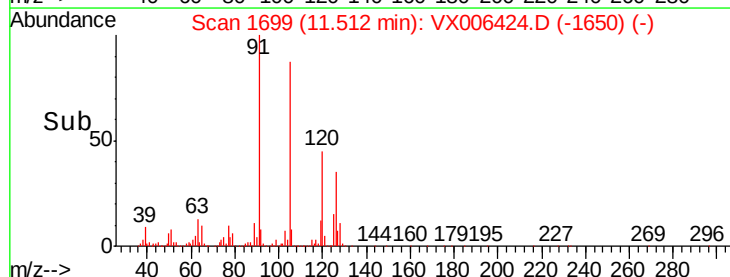
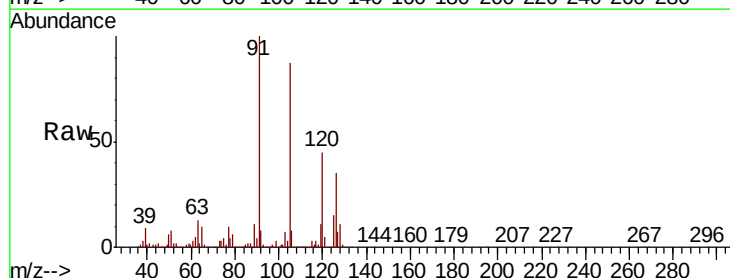
RT: 11.51 min Scan# 1699

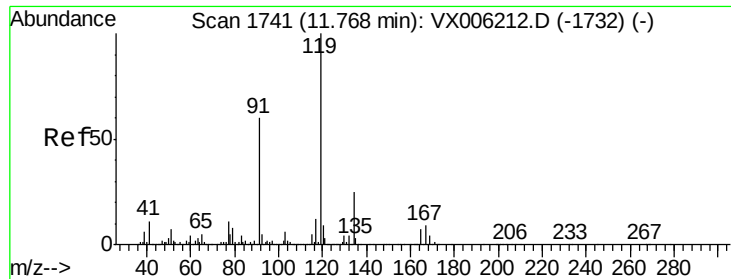
Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion:	91	Resp:	486168
Ion Ratio	Lower	Upper	
91	100		
126	32.3	16.4	49.4





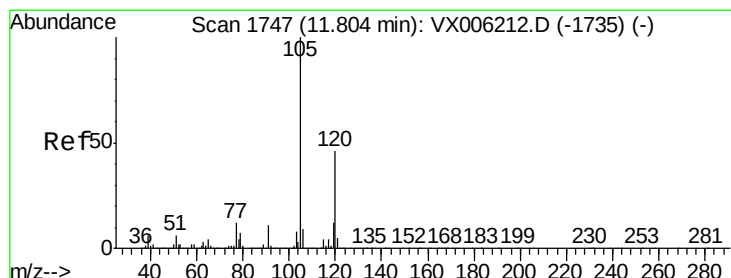
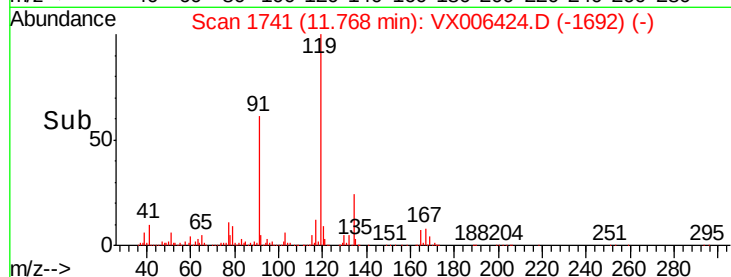
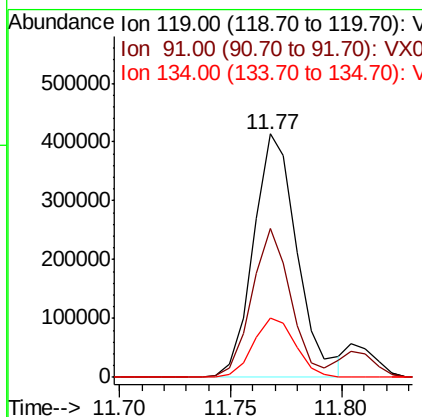
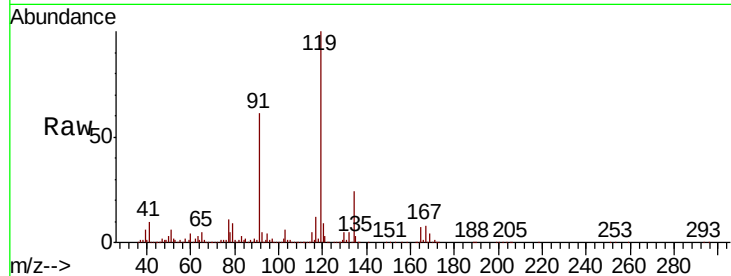
#83
 tert-Butylbenzene
 Concen: 20.577 ug/l
 RT: 11.77 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	564761		
91	54.6	26.4	79.2	
134	23.5	11.6	34.7	

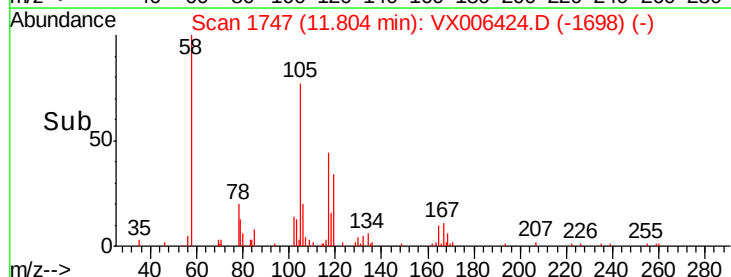
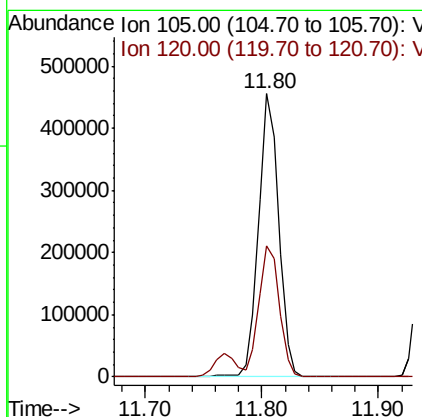
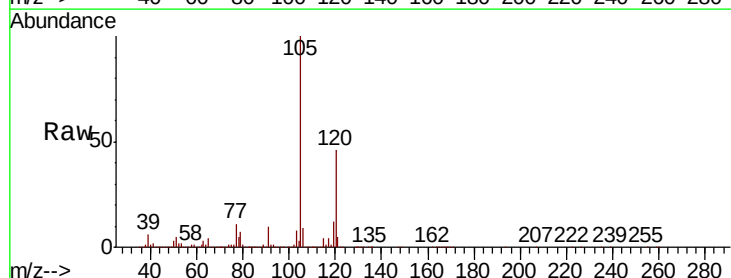
Manual Integrations
 APPROVED

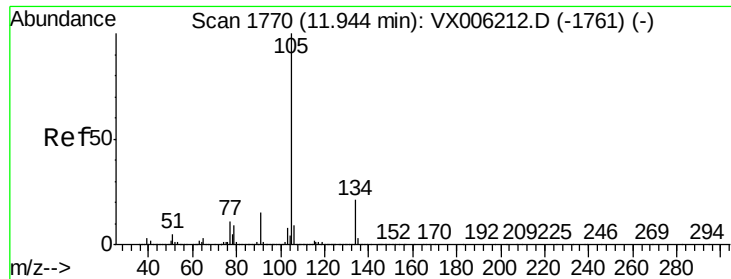
MMDadoda
 12/12/2018 10:40:16 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.876 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	554504		
120	47.0	23.4	70.0	





#85

sec-Butylbenzene

Concen: 20.580 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

VX1211WBSD01

Tot Ion:105 Resp: 642573

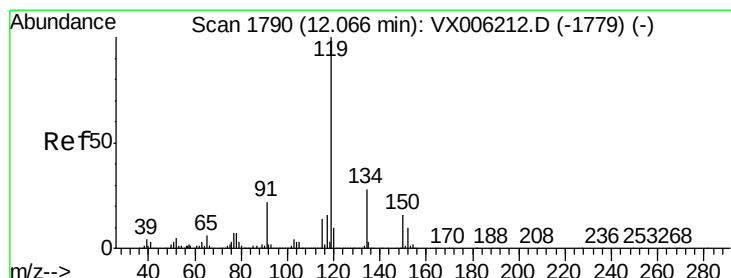
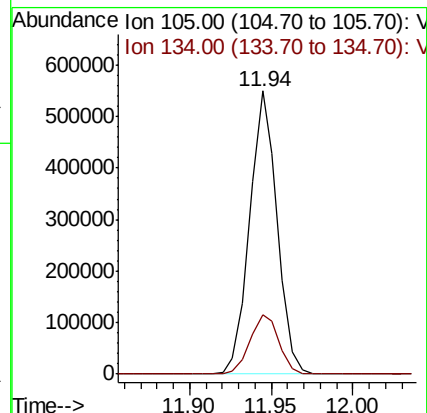
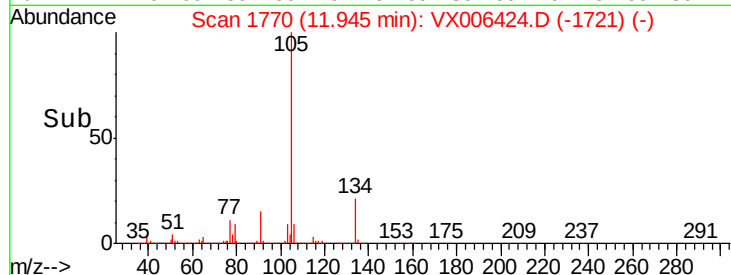
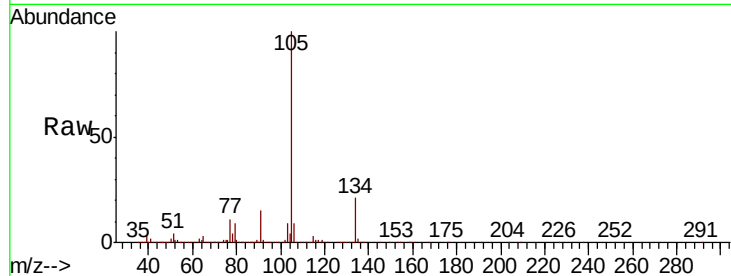
Ion Ratio Lower Upper

105 100

134 22.0 10.8 32.4

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#86

p-Isopropyltoluene

Concen: 20.506 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.01 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

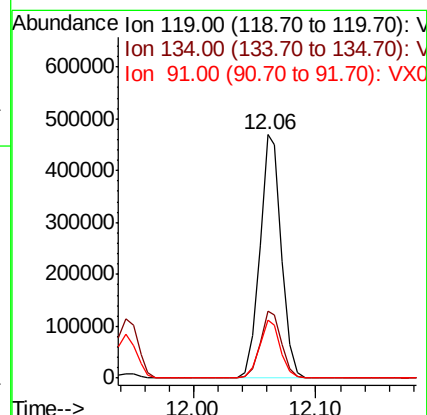
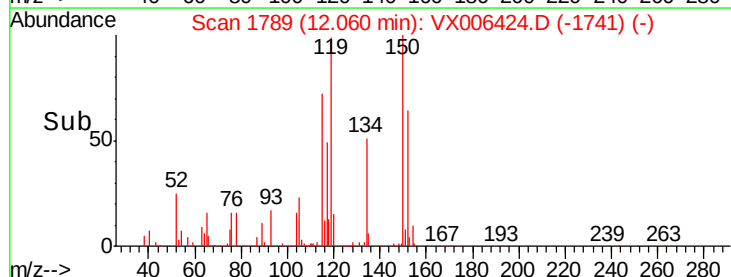
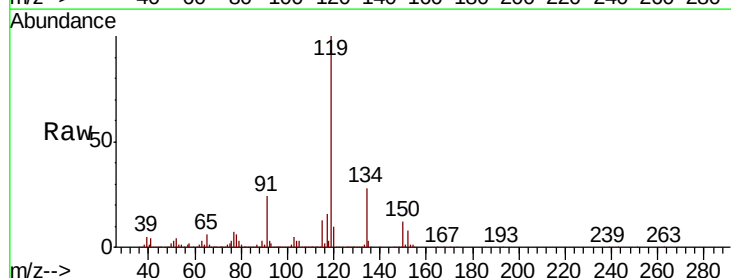
Tgt Ion:119 Resp: 576538

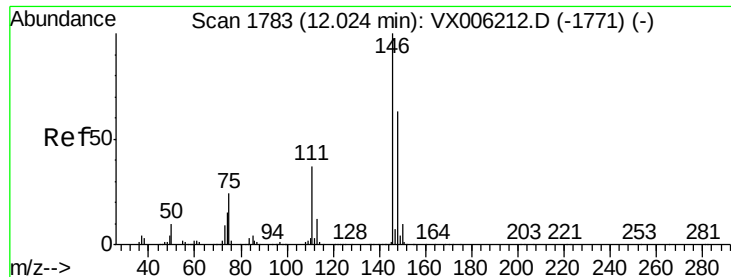
Ion Ratio Lower Upper

119 100

134 27.2 13.9 41.6

91 23.2 11.3 33.8





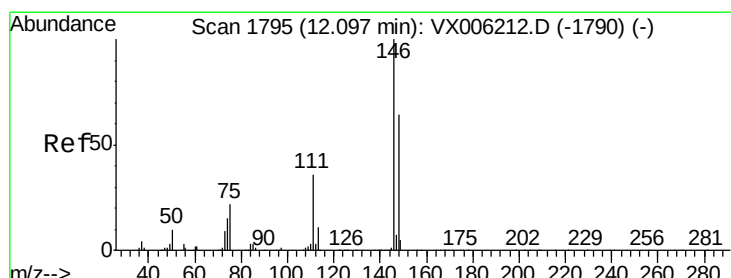
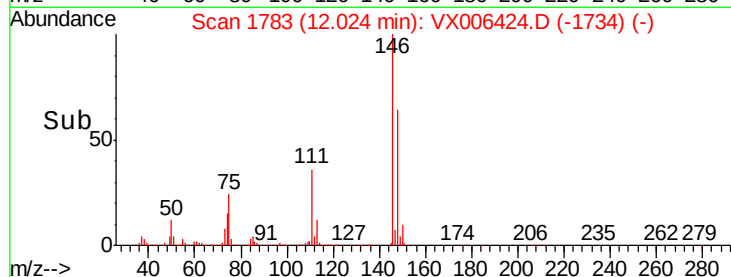
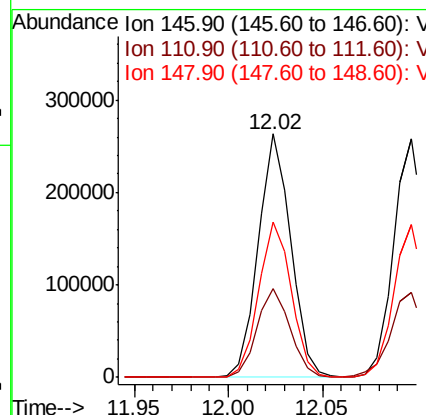
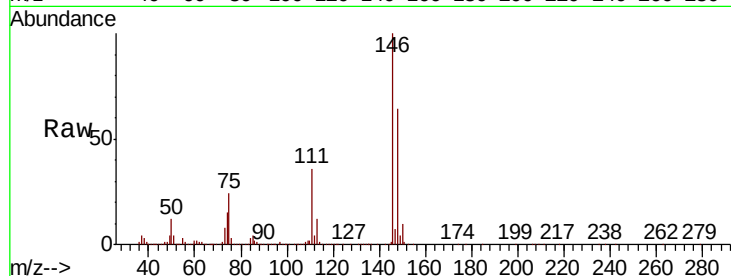
#87
 1,3-Dichlorobenzene
 Concen: 20.607 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.4	55.2
148	64.5	32.0	96.0

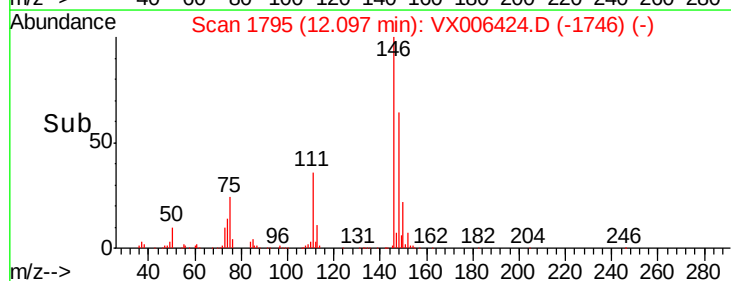
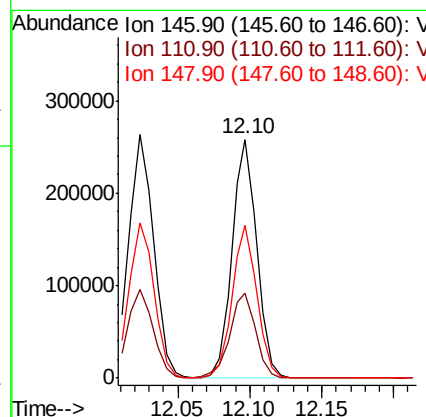
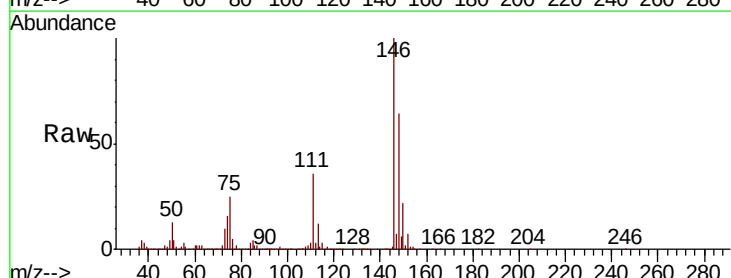
Manual Integrations
 APPROVED

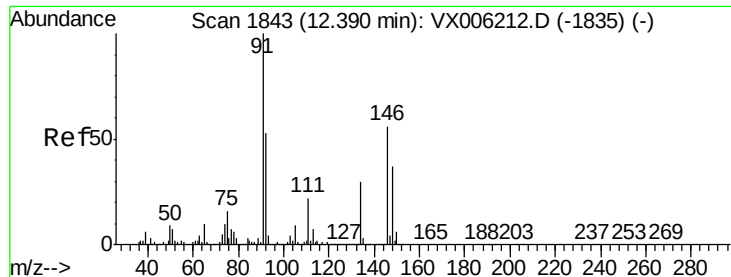
MMDadoda
 12/12/2018 10:40:16 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.173 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.3	54.8
148	64.1	31.9	95.9





#89

n-Butylbenzene

Concen: 19.627 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Instrument :

MSVOA_X

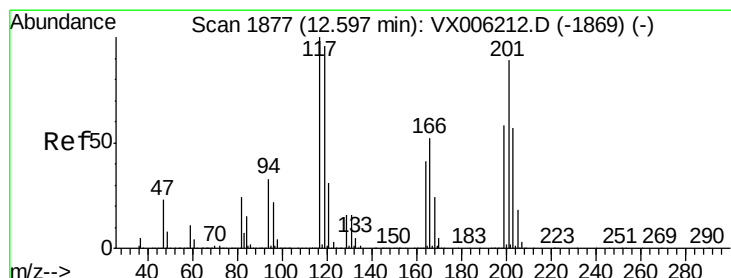
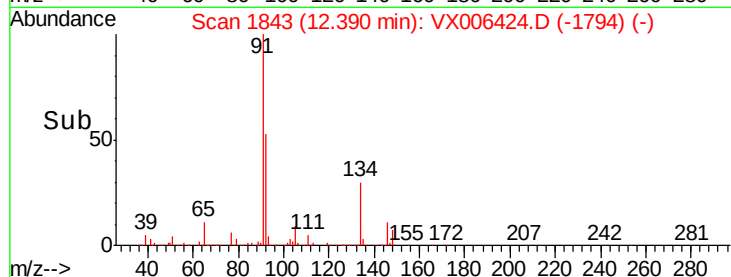
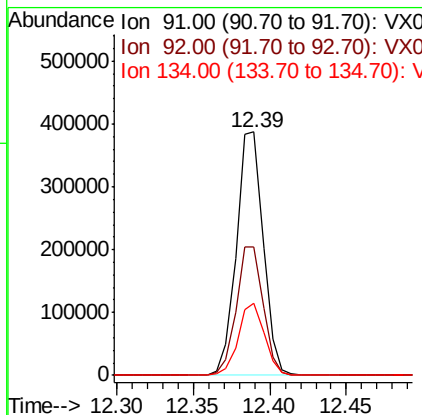
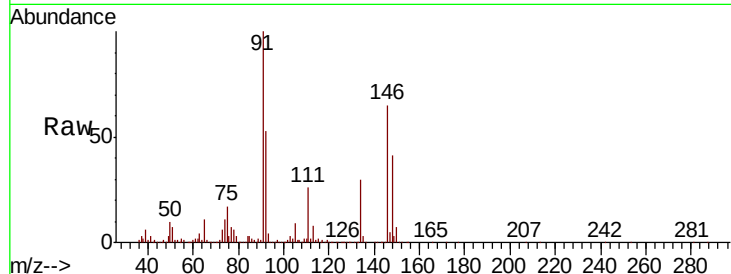
ClientSampleId :

VX1211WBSD01

Tot Ion:	91	Resp:	470836
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.6	79.8
134	29.1	14.8	44.3

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#90

Hexachloroethane

Concen: 16.594 ug/l

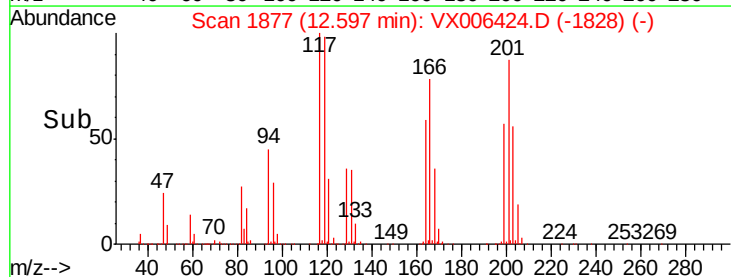
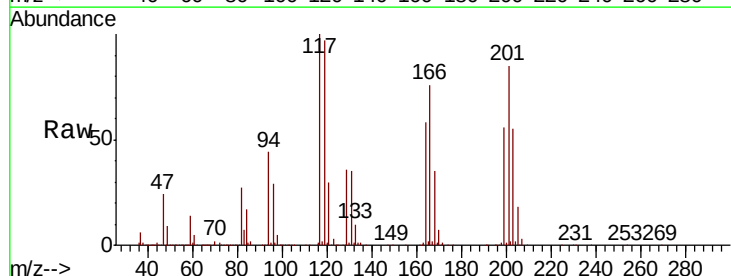
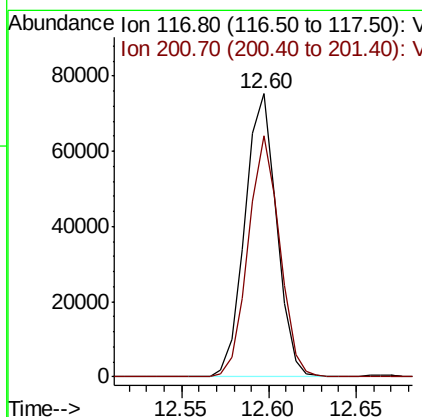
RT: 12.60 min Scan# 1877

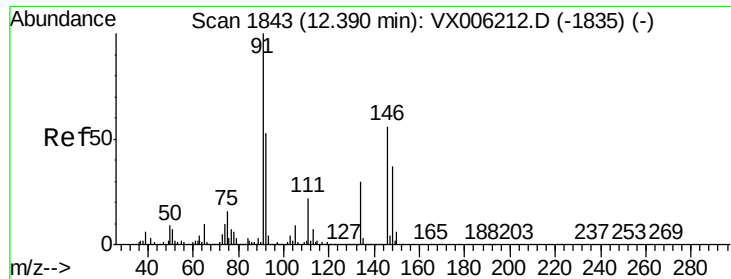
Delta R.T. 0.00 min

Lab File: VX006424.D

Acq: 11 Dec 2018 16:51

Tgt Ion:	117	Resp:	95089
Ion	Ratio	Lower	Upper
117	100		
201	84.2	44.7	134.1





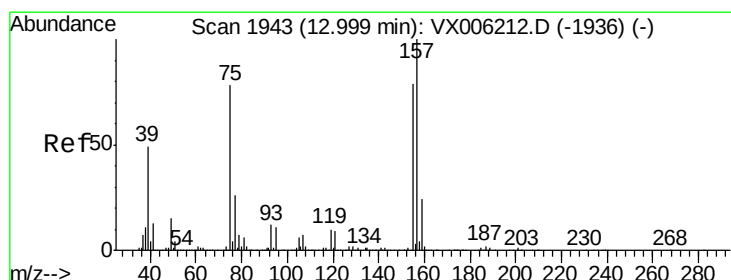
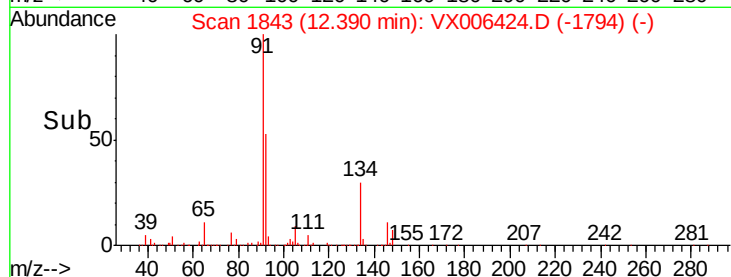
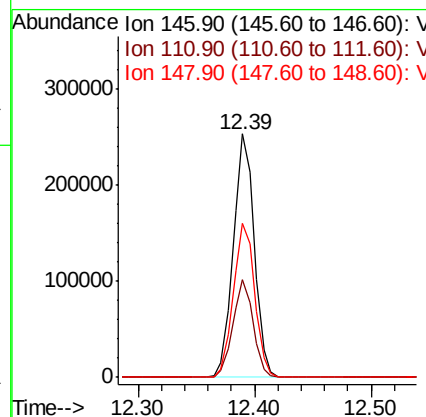
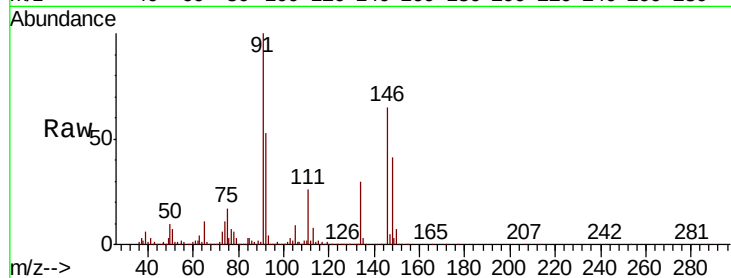
#91
 1,2-Dichlorobenzene
 Concen: 20.851 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	315919		
111	39.0		19.1	57.3
148	64.8		32.1	96.3

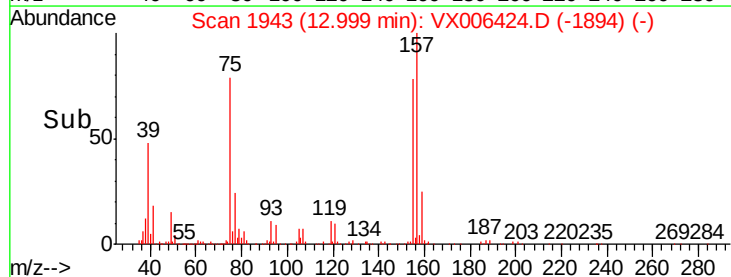
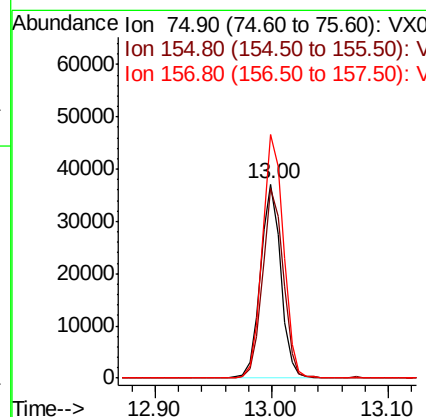
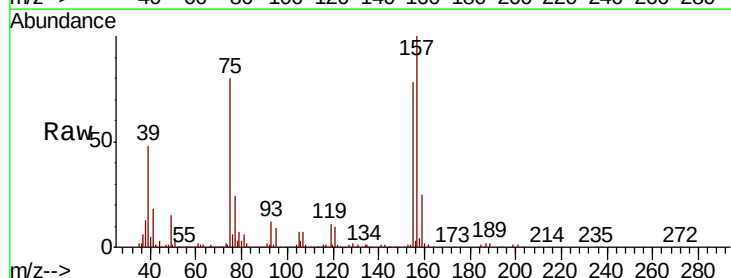
Manual Integrations
 APPROVED

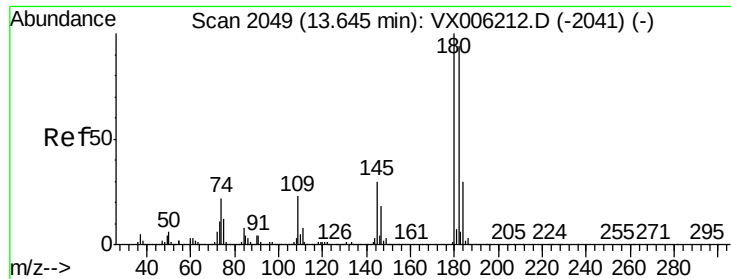
MMDadoda
 12/12/2018 10:40:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.855 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VX006424.D
 Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	45271		
155	99.8		53.4	160.3
157	131.0		68.0	203.8





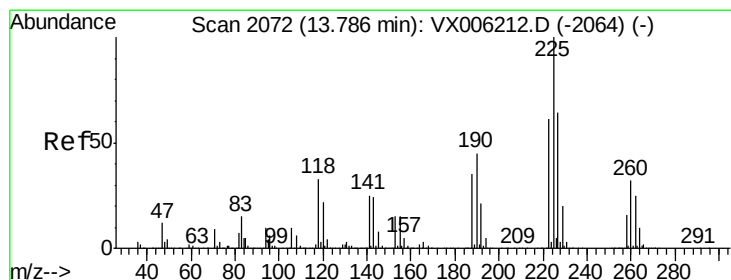
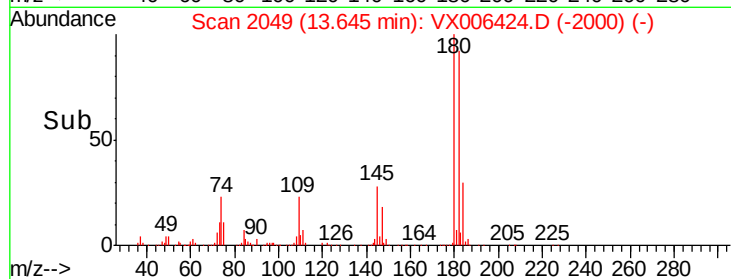
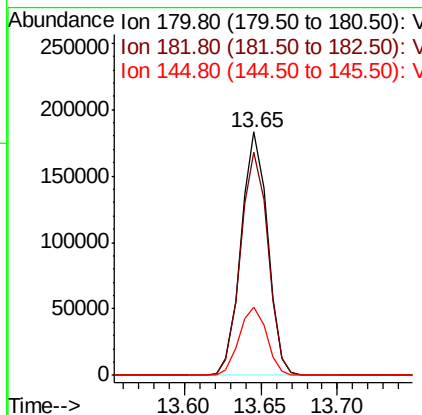
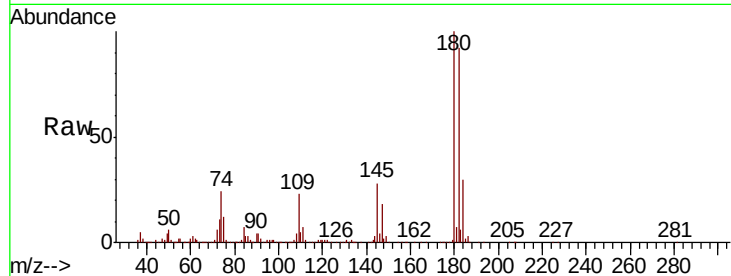
#93
1,2,4-Trichlorobenzene
Concen: 20.007 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	221155		
182	94.3	47.3	141.9	
145	29.0	14.6	43.8	

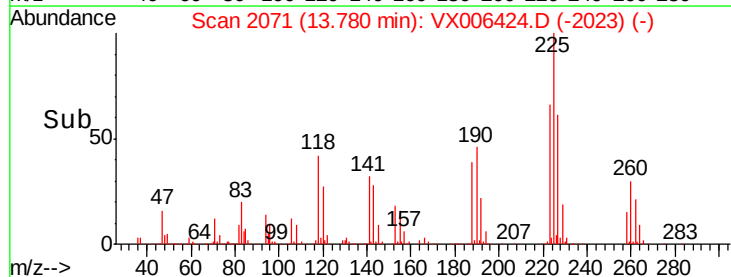
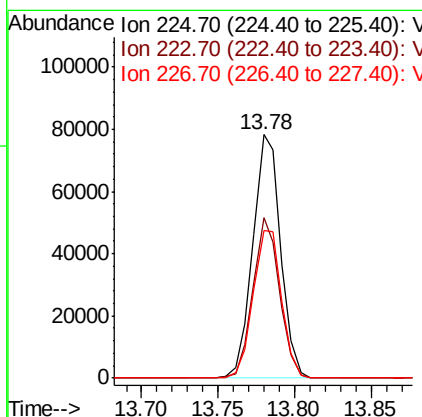
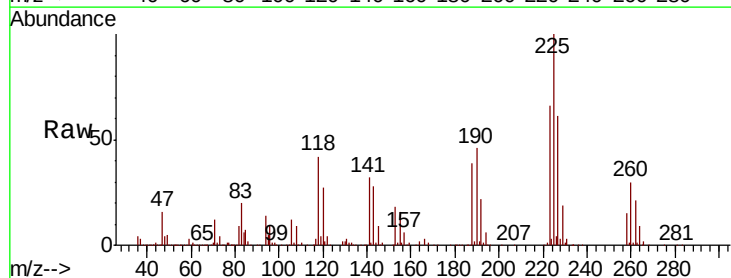
Manual Integrations
APPROVED

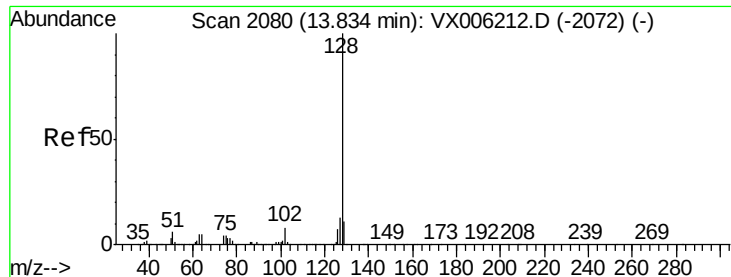
MMDadoda
12/12/2018 10:40:16 AM



#94
Hexachlorobutadiene
Concen: 20.228 ug/l
RT: 13.78 min Scan# 2071
Delta R.T. -0.01 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	98887		
223	62.9	31.2	93.6	
227	62.0	31.9	95.5	





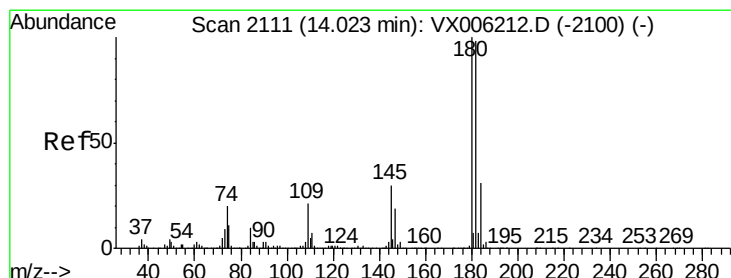
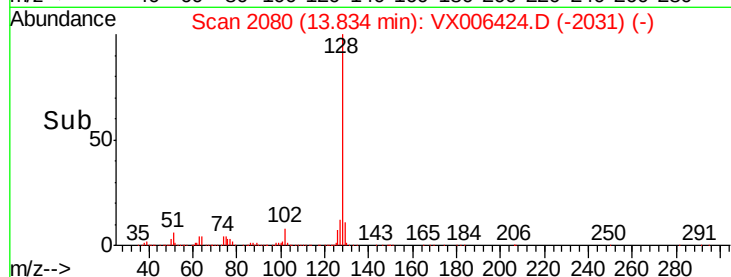
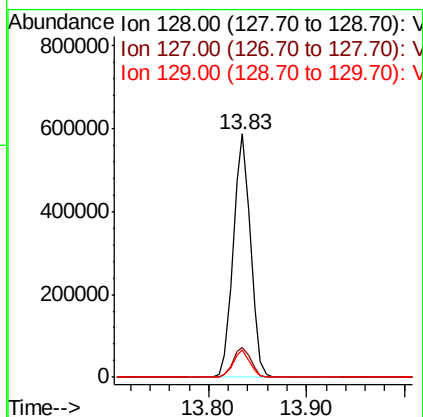
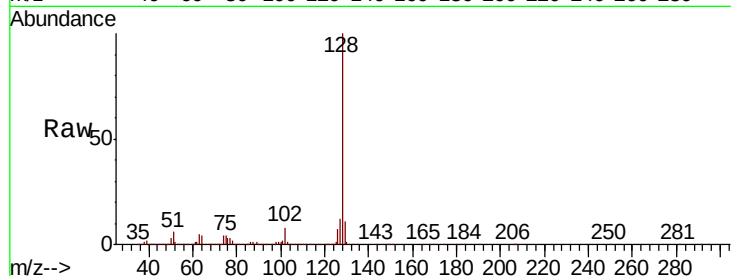
#95
Naphthalene
Concen: 20.899 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
VX1211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	718596		
127	12.9		10.2	15.4
129	11.0		8.9	13.3

Manual Integrations
APPROVED

MMDadoda
12/12/2018 10:40:16 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.181 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. -0.01 min
Lab File: VX006424.D
Acq: 11 Dec 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	220950		
182	93.4		48.4	145.2
145	31.9		15.6	46.8

