

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052918\
 Data File : VX002112.D
 Acq On : 30 May 2018 00:39
 Operator : JC/MD
 Sample : VX0529WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Manual Integrations
 APPROVED

MMDadoda
 5/30/2018 1:51:02 PM

Quant Time: May 30 08:32:38 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	265508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	386732	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	235153	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	201428	42.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.88%	
35) Dibromofluoromethane	5.51	113	151961	39.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.58%	
50) Toluene-d8	8.72	98	553399	39.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.06%	
62) 4-Bromofluorobenzene	11.14	95	216877	39.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.18%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.20	85	57812	16.02	ug/l	99
3) Chloromethane	1.32	50	74730	18.29	ug/l	99
4) Vinyl Chloride	1.40	62	74973	19.01	ug/l	99
5) Bromomethane	1.64	94	44183	23.83	ug/l	97
6) Chloroethane	1.73	64	47733	20.53	ug/l	100
7) Trichlorofluoromethane	1.93	101	122064	20.61	ug/l	100
8) Diethyl Ether	2.19	74	48554	22.59	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	68874	20.84	ug/l	96
10) Methyl Iodide	2.51	142	67881	15.18	ug/l	99
11) Tert butyl alcohol	3.07	59	116289	124.83	ug/l	97
12) 1,1-Dichloroethene	2.37	96	63894	20.65	ug/l	94
13) Acrolein	2.30	56	35796	88.87	ug/l	100
14) Allyl chloride	2.73	41	136663	21.04	ug/l	98
15) Acrylonitrile	3.15	53	217359	113.46	ug/l	99
16) Acetone	2.45	43	206939	112.98	ug/l	98
17) Carbon Disulfide	2.57	76	168960	18.97	ug/l	100
18) Methyl Acetate	2.78	43	105278	23.25	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	255239	21.93	ug/l	100
20) Methylene Chloride	2.86	84	73798	22.35	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	68875	21.97	ug/l	96
22) Diisopropyl ether	3.88	45	258117	19.53	ug/l	99
23) Vinyl Acetate	3.83	43	1151354	105.09	ug/l	99
24) 1,1-Dichloroethane	3.70	63	129752	20.67	ug/l	100
25) 2-Butanone	4.71	43	327852	97.66	ug/l	100
26) 2,2-Dichloropropane	4.59	77	87785	13.82	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	75452	18.70	ug/l	96
28) Bromochloromethane	5.03	49	71008	25.94	ug/l	99
29) Tetrahydrofuran	5.17	42	213958	97.96	ug/l	99
30) Chloroform	5.22	83	131454	18.59	ug/l	99
31) Cyclohexane	5.58	56	119353	18.25	ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	118024	17.90	ug/l	99
36) 1,1-Dichloropropene	5.81	75	94874	17.64	ug/l	98
37) Ethyl Acetate	4.87	43	127919	18.24	ug/l	99
38) Carbon Tetrachloride	5.79	117	102073	16.27	ug/l	100

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052918\
 Data File : VX002112.D
 Acq On : 30 May 2018 00:39
 Operator : JC/MD
 Sample : VX0529WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Manual Integrations
 APPROVED

MMDadoda
 5/30/2018 1:51:02 PM

Quant Time: May 30 08:32:38 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	116093	17.57	ug/l	97
40) Benzene	6.15	78	290882	18.46	ug/l	99
41) Methacrylonitrile	5.07	41	71109	18.35	ug/l	99
42) 1,2-Dichloroethane	6.20	62	115685	18.38	ug/l	100
43) Isopropyl Acetate	6.47	43	212567	18.19	ug/l	99
44) Trichloroethene	7.22	130	83472	18.18	ug/l	98
45) 1,2-Dichloropropane	7.52	63	76347	17.84	ug/l	97
46) Dibromomethane	7.67	93	52849	18.65	ug/l	98
47) Bromodichloromethane	7.90	83	99076	16.40	ug/l	100
48) Methyl methacrylate	7.78	41	106765	17.95	ug/l	98
49) 1,4-Dioxane	7.76	88	42440	404.95	ug/l	99
51) 4-Methyl-2-Pentanone	8.65	43	678818	96.37	ug/l	98
52) Toluene	8.79	92	182432	18.19	ug/l	99
53) t-1,3-Dichloropropene	8.44	75	116797	16.78	ug/l	99
54) cis-1,3-Dichloropropene	9.05	75	109780	16.19	ug/l	99
55) 1,1,2-Trichloroethane	9.22	97	76718	18.31	ug/l	98
56) Ethyl methacrylate	9.18	69	126256	17.52	ug/l	99
57) 1,3-Dichloropropane	9.38	76	127683	18.50	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.32	63	288312	90.26	ug/l	99
59) 2-Hexanone	9.50	43	516576	95.11	ug/l	99
60) Dibromochloromethane	9.59	129	79016	15.92	ug/l	99
61) 1,2-Dibromoethane	9.68	107	79935	18.18	ug/l	98
64) Tetrachloroethene	9.34	164	92796	18.13	ug/l	99
65) Chlorobenzene	10.14	112	208557	18.44	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.23	131	77471	16.97	ug/l	99
67) Ethyl Benzene	10.26	91	359210	18.28	ug/l	99
68) m/p-Xylenes	10.37	106	275130	36.63	ug/l	99
69) o-Xylene	10.70	106	135610	18.08	ug/l	98
70) Styrene	10.72	104	221807	17.84	ug/l	99
71) Bromoform	10.86	173	62099	14.34	ug/l #	100
73) Isopropylbenzene	11.02	105	363165	18.24	ug/l	100
74) N-amyl acetate	6.47	43	212567	18.60	ug/l #	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	109459	19.32	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	117027m	20.72	ug/l	
77) Bromobenzene	11.26	156	95376	18.05	ug/l	99
78) n-propylbenzene	11.37	91	405757	18.19	ug/l	100
79) 2-Chlorotoluene	11.43	91	246169	18.68	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	304025	17.87	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.08	75	32066	13.64	ug/l	90
82) 4-Chlorotoluene	11.52	91	288191	18.32	ug/l	99
83) tert-Butylbenzene	11.77	119	294937	17.66	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	313803	17.84	ug/l	98
85) sec-Butylbenzene	11.95	105	364368	18.15	ug/l	99
86) p-Isopropyltoluene	12.07	119	323799	18.03	ug/l	99
87) 1,3-Dichlorobenzene	12.03	146	172259	18.21	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	175823	18.59	ug/l	100
89) n-Butylbenzene	12.39	91	275570	18.10	ug/l	100
90) Hexachloroethane	12.60	117	51849	14.63	ug/l	100
91) 1,2-Dichlorobenzene	12.40	146	178207	18.49	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.01	75	28616	16.16	ug/l	97

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052918\
 Data File : VX002112.D
 Acq On : 30 May 2018 00:39
 Operator : JC/MD
 Sample : VX0529WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

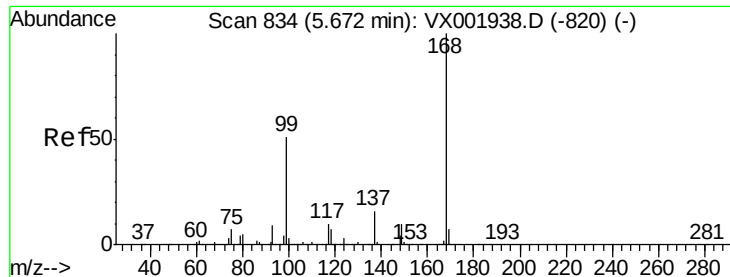
Manual Integrations
 APPROVED

MMDadoda
 5/30/2018 1:51:02 PM

Quant Time: May 30 08:32:38 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	127066	18.43	ug/l	99
94) Hexachlorobutadiene	13.79	225	66062	17.82	ug/l	100
95) Naphthalene	13.84	128	399053	18.79	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	132744	18.61	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion:168 Resp: 265508

Ion Ratio Lower Upper

168 100

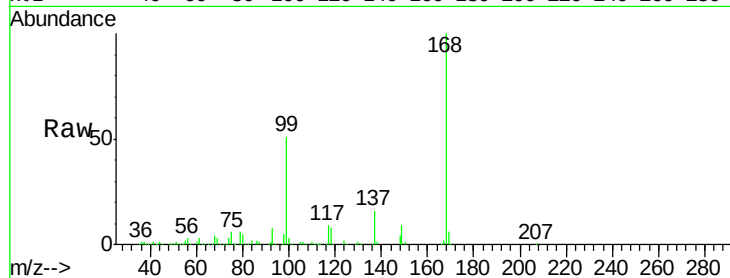
99 50.5 41.0 61.4

Manual Integrations

APPROVED

MMDadoda

5/30/2018 1:51:02 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

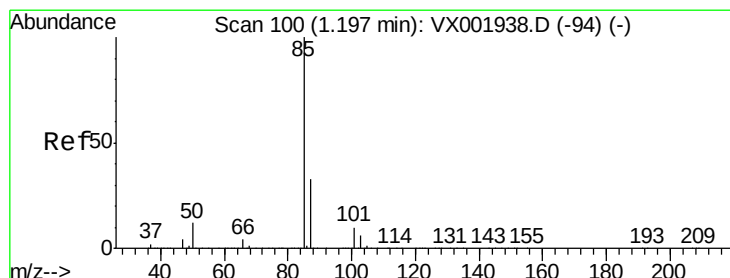
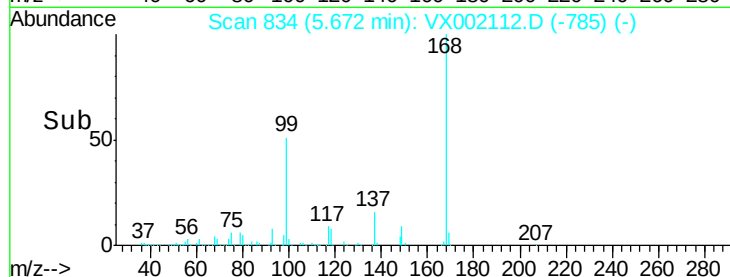
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 16.02 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002112.D

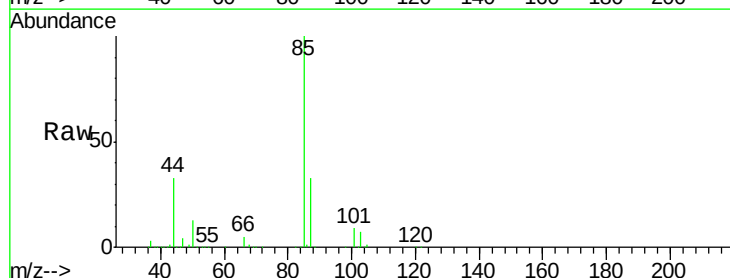
Acq: 30 May 2018 00:39

Tgt Ion: 85 Resp: 57812

Ion Ratio Lower Upper

85 100

87 32.9 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

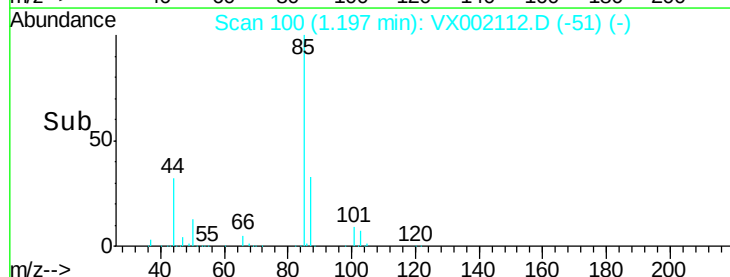
60000

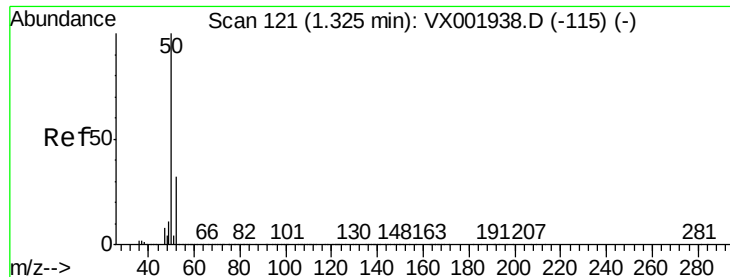
40000

20000

0

Time--> 1.10 1.15 1.20 1.25 1.30





#3

Chloromethane

Concen: 18.29 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion: 50 Resp: 74730

Ion Ratio Lower Upper

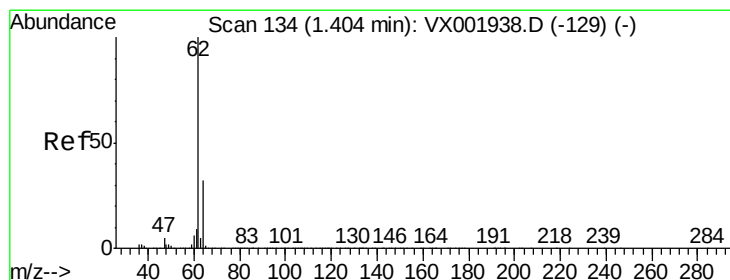
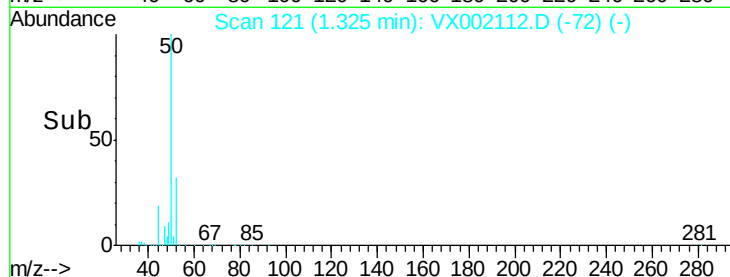
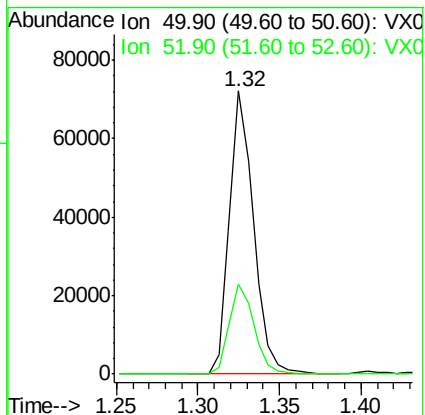
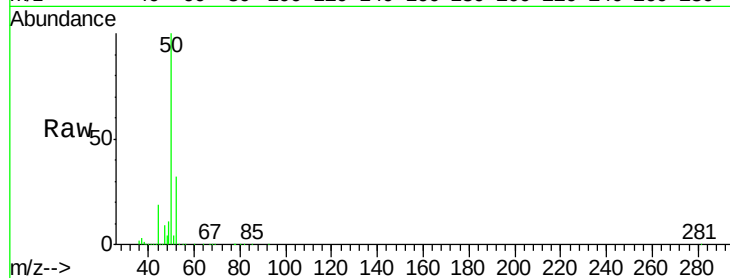
50 100

52 32.0 26.0 39.0

Manual Integrations
APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#4

Vinyl Chloride

Concen: 19.01 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX002112.D

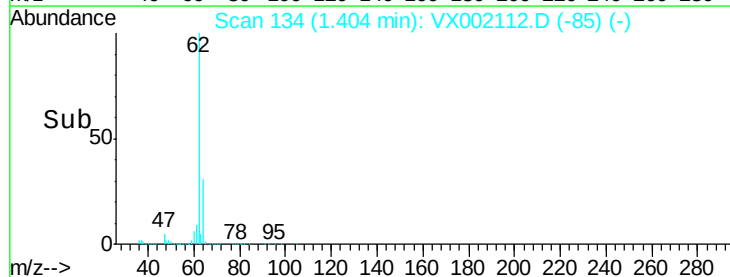
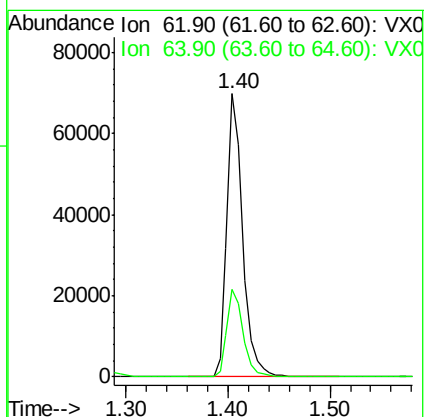
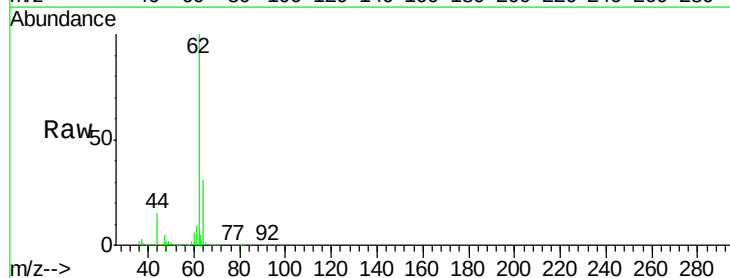
Acq: 30 May 2018 00:39

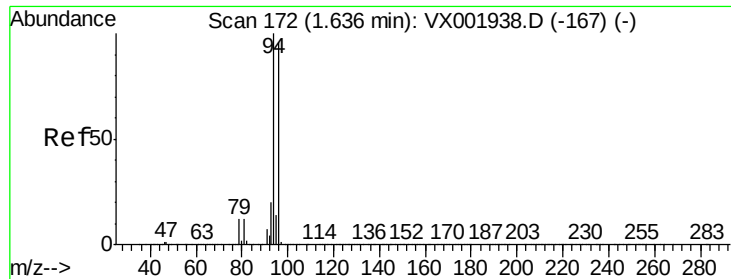
Tgt Ion: 62 Resp: 74973

Ion Ratio Lower Upper

62 100

64 31.1 25.4 38.0





#5

Bromomethane

Concen: 23.83 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion: 94 Resp: 44183

Ion Ratio Lower Upper

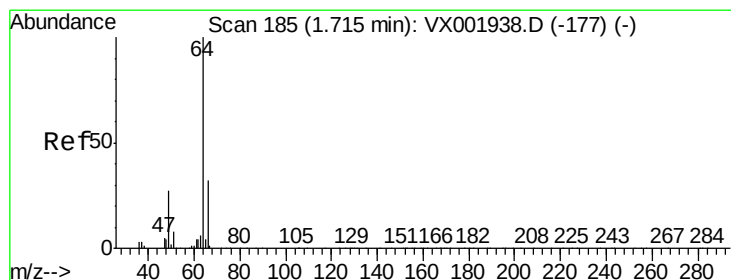
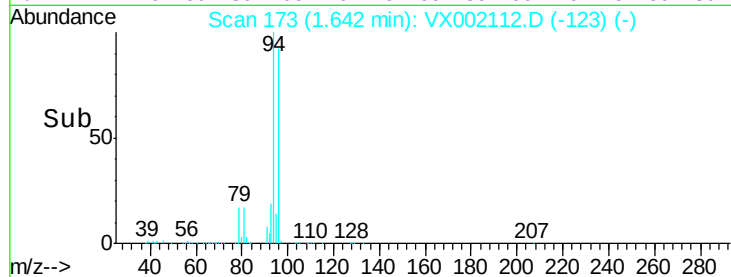
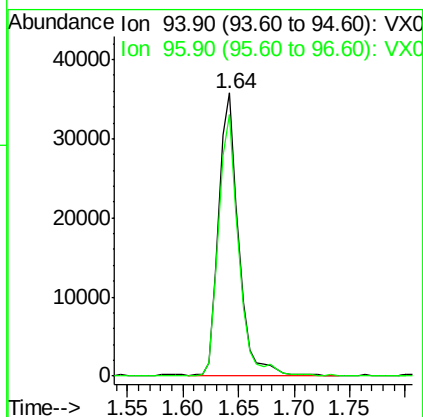
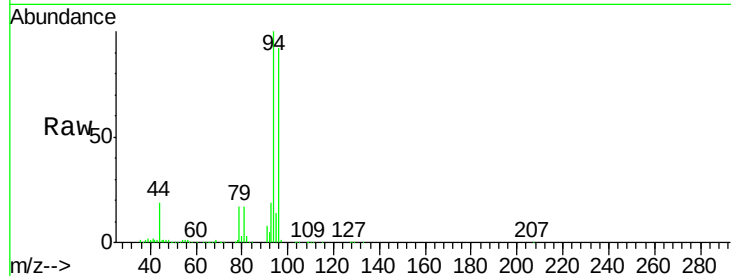
94 100

96 92.3 75.9 113.9

Manual Integrations
APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#6

Chloroethane

Concen: 20.53 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX002112.D

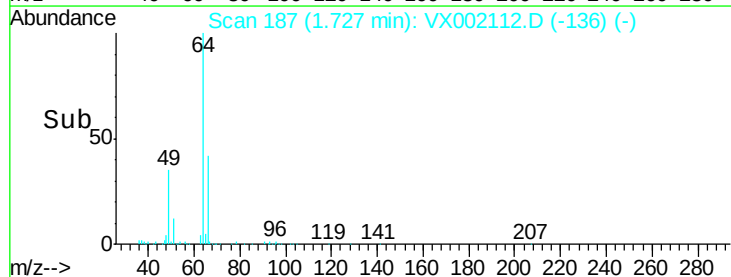
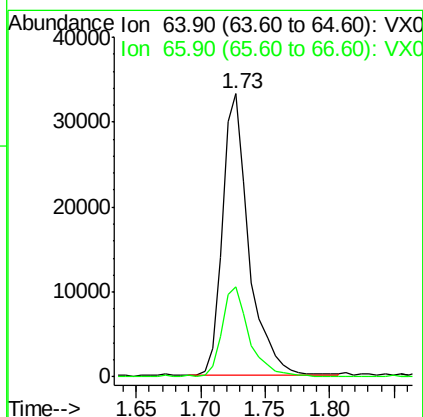
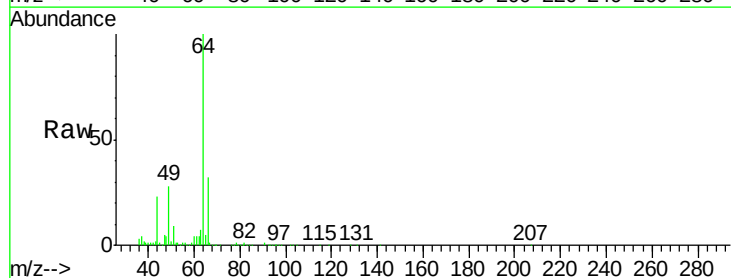
Acq: 30 May 2018 00:39

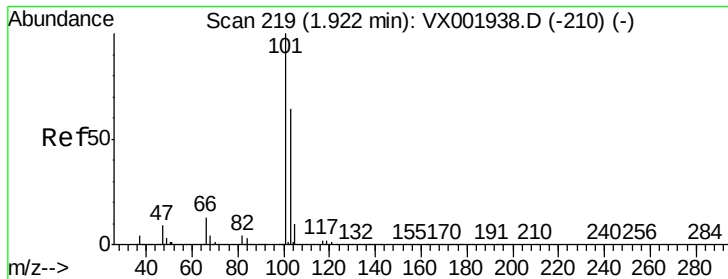
Tgt Ion: 64 Resp: 47733

Ion Ratio Lower Upper

64 100

66 31.8 25.6 38.4





#7

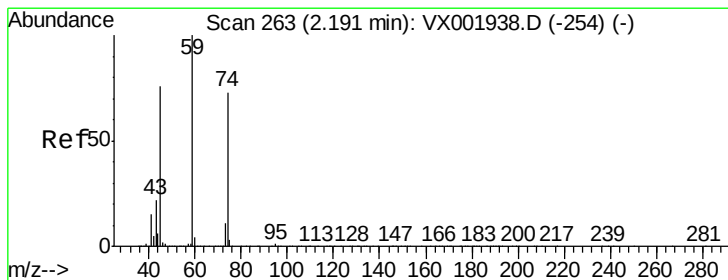
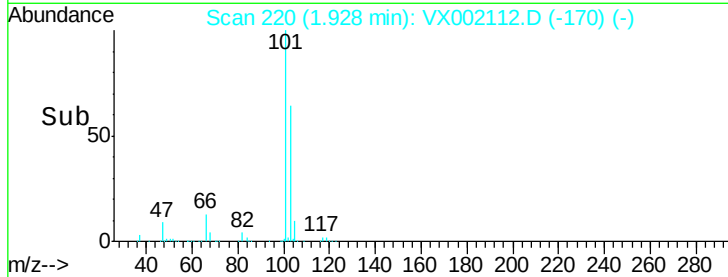
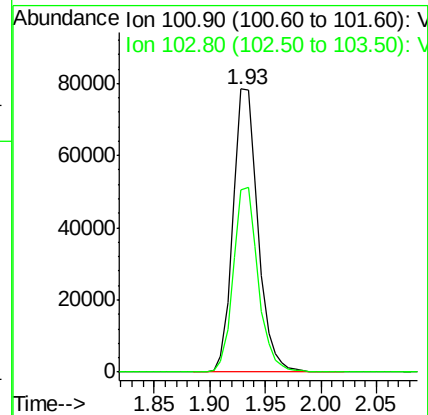
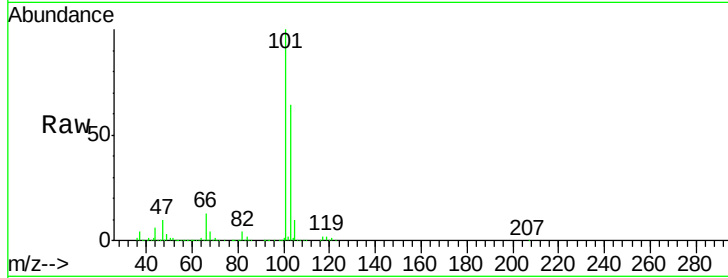
Trichlorofluoromethane
Concen: 20.61 ug/l
RT: 1.93 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.0

Manual Integrations
APPROVED

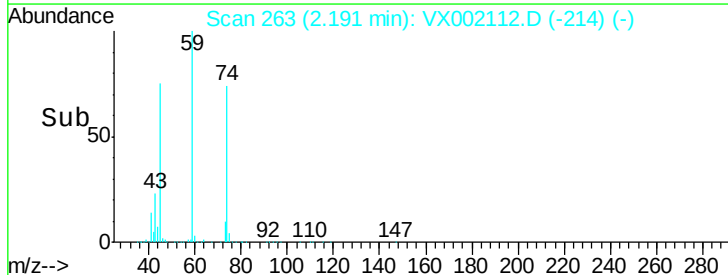
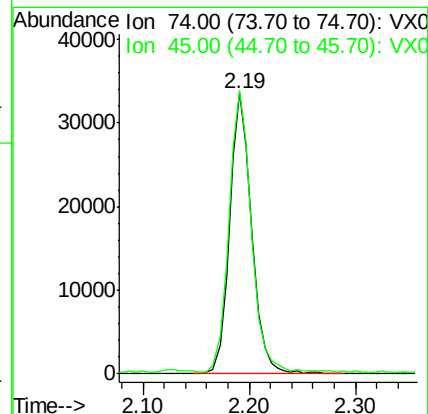
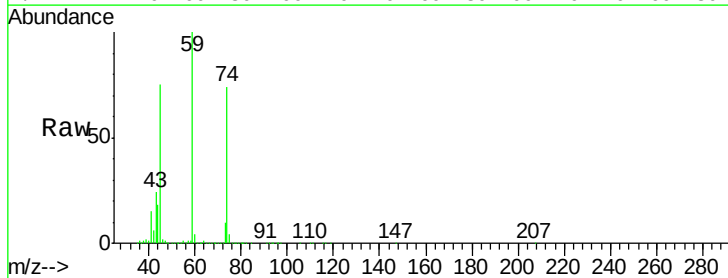
MMDadoda
5/30/2018 1:51:02 PM

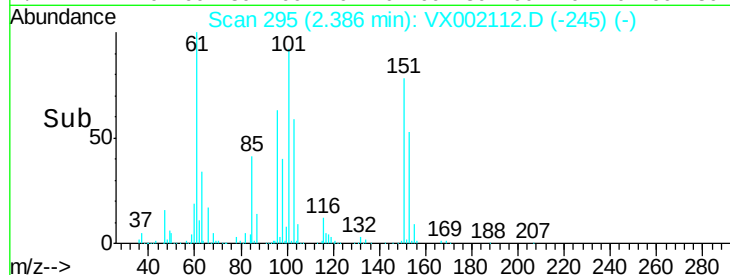
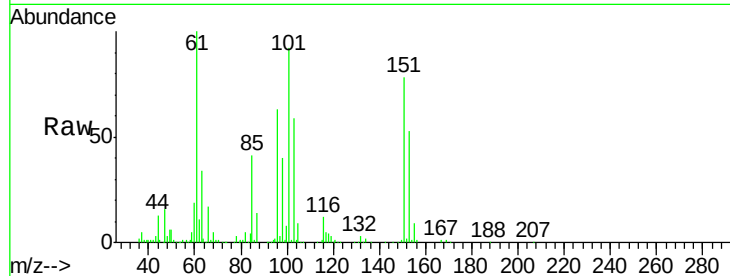
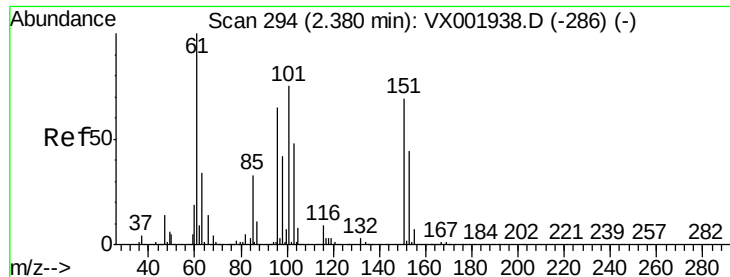


#8

Diethyl Ether
Concen: 22.59 ug/l
RT: 2.19 min Scan# 263
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.0	51.5	154.7





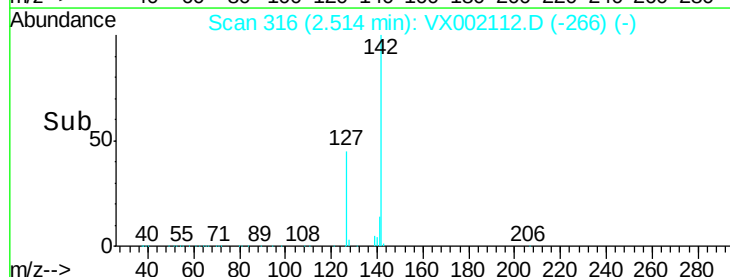
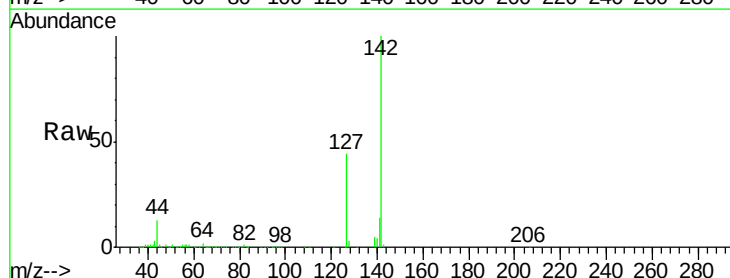
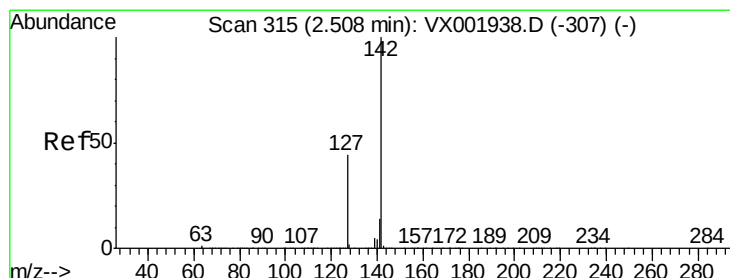
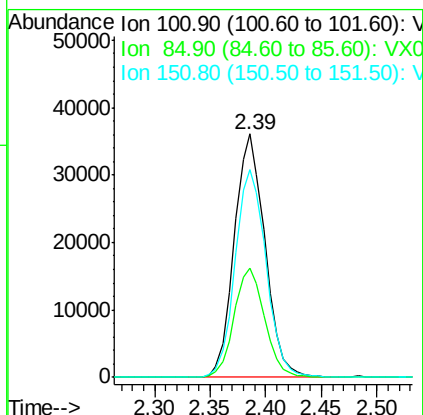
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.84 ug/l
RT: 2.39 min Scan# 295
Delta R.T. 0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	68874		
85	45.3	35.6	53.4	
151	86.3	73.2	109.8	

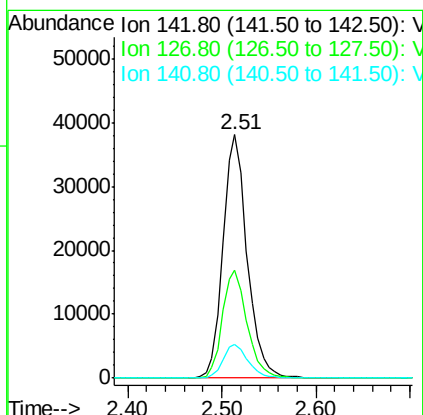
Manual Integrations
APPROVED

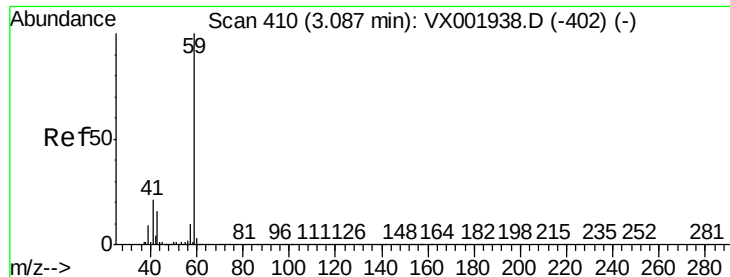
MMDadoda
5/30/2018 1:51:02 PM



#10
Methyl Iodide
Concen: 15.18 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	67881		
127	45.5	35.5	53.3	
141	14.4	11.3	16.9	





#11

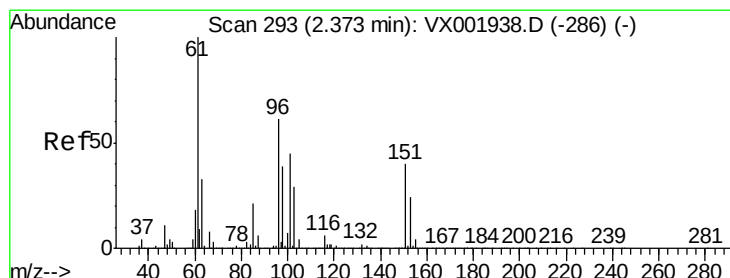
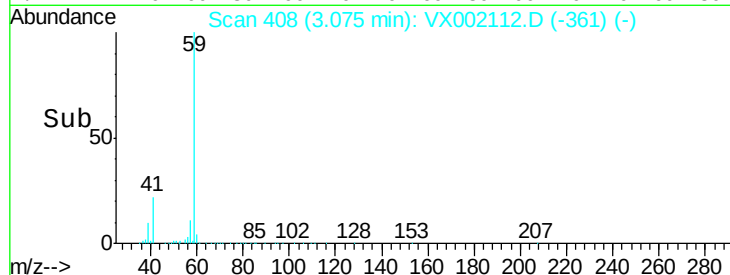
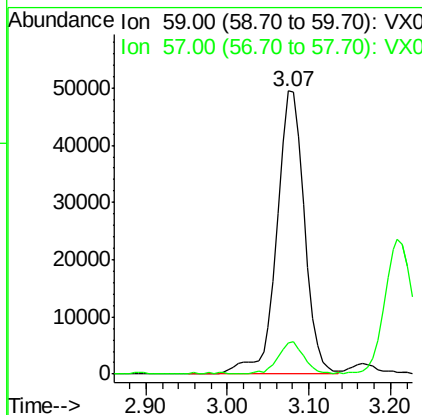
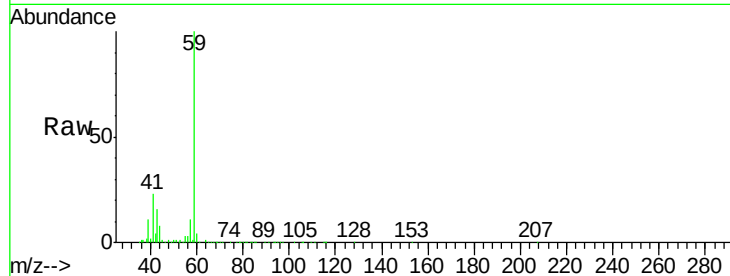
Tert butyl alcohol
Concen: 124.83 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.9	13.3

Manual Integrations
APPROVED

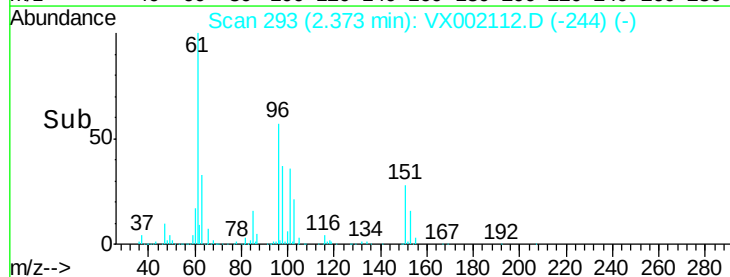
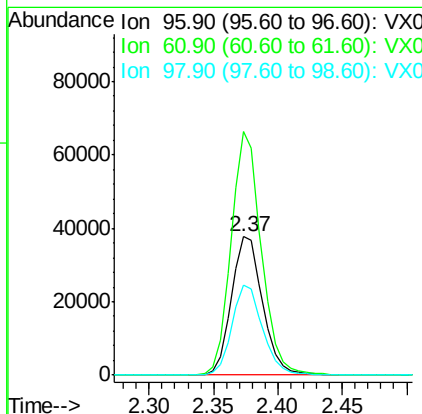
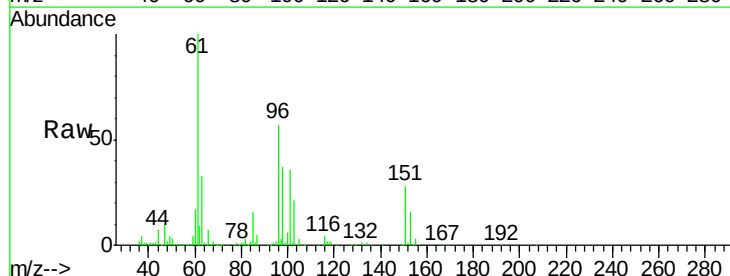
MMDadoda
5/30/2018 1:51:02 PM

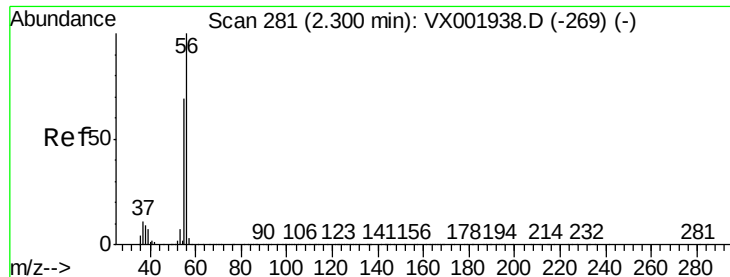


#12

1,1-Dichloroethene
Concen: 20.65 ug/l
RT: 2.37 min Scan# 293
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.2	131.7	197.5
98	65.3	51.6	77.4





#13

Acrolein

Concen: 88.87 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion: 56 Resp: 35796

Ion Ratio Lower Upper

56 100

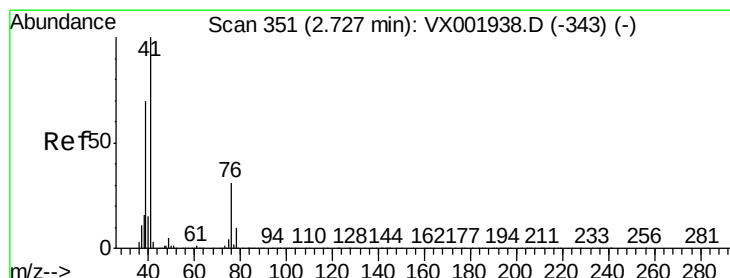
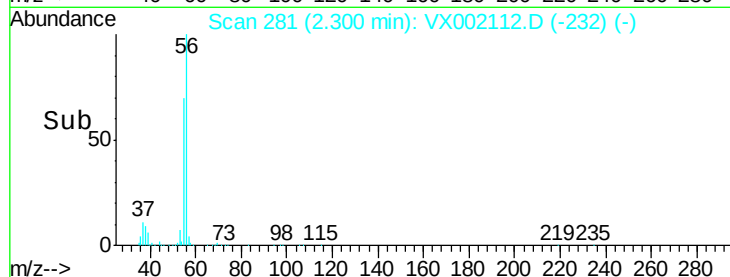
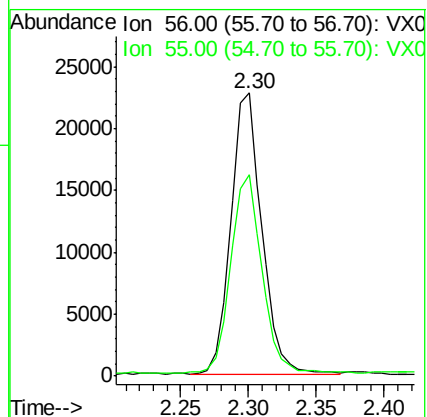
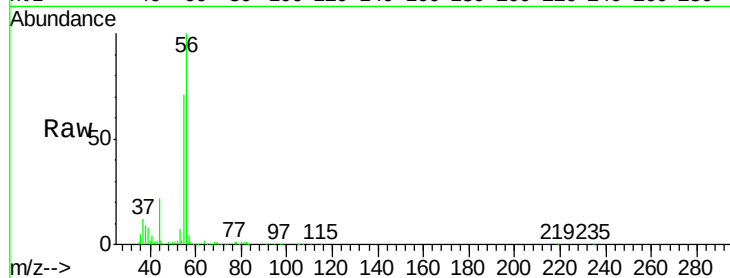
55 71.0 56.8 85.2

Manual Integrations

APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#14

Allyl chloride

Concen: 21.04 ug/l

RT: 2.73 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

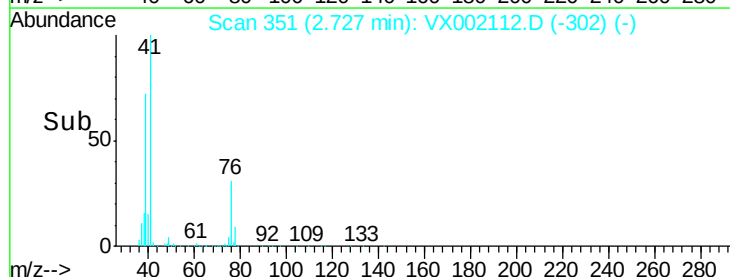
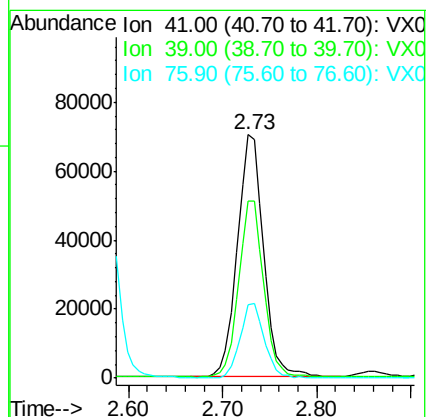
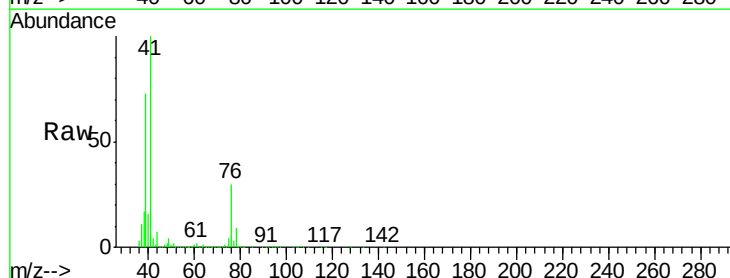
Tgt Ion: 41 Resp: 136663

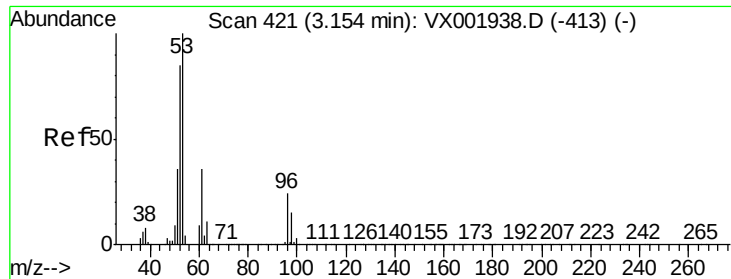
Ion Ratio Lower Upper

41 100

39 69.1 54.3 81.5

76 28.8 24.2 36.4





#15

Acrylonitrile

Concen: 113.46 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

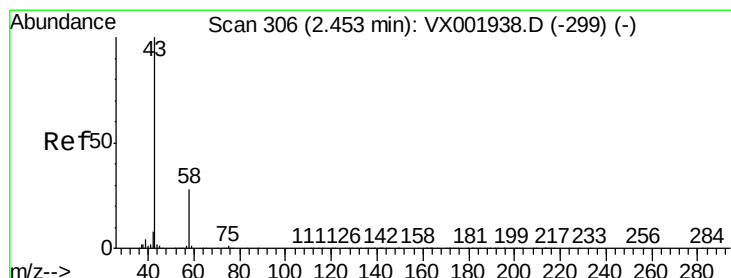
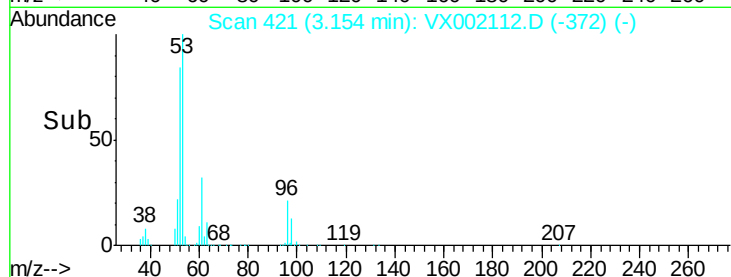
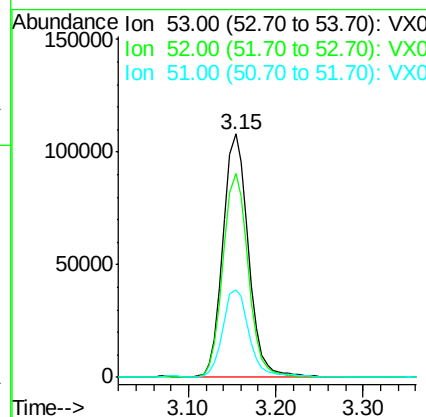
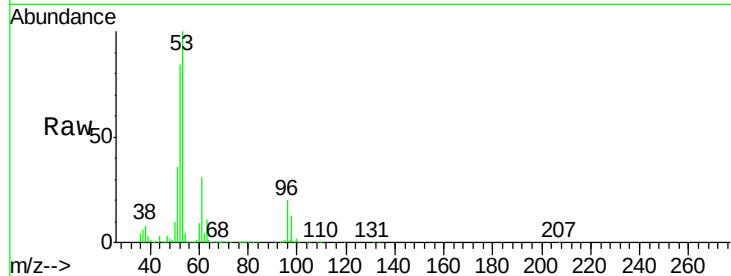
ClientSampleId :

VX0529WBSD02

Tot Ion:	53	Resp:	217359
Ion Ratio		Lower	Upper
53	100		
52	83.3	66.4	99.6
51	37.3	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#16

Acetone

Concen: 112.98 ug/l

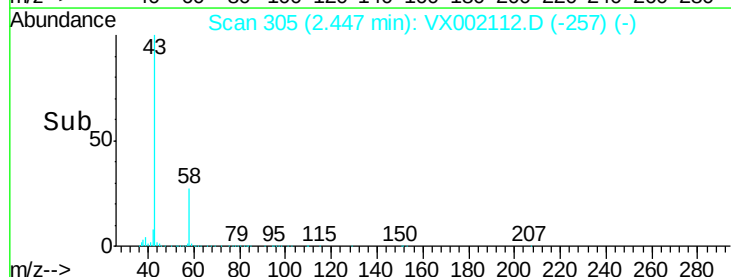
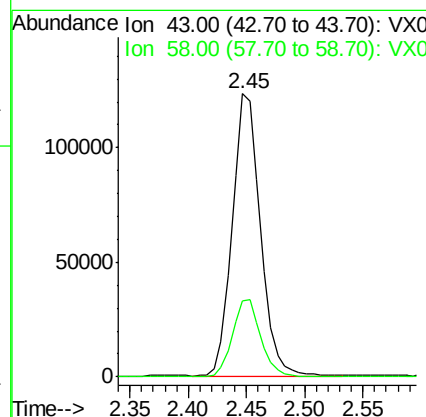
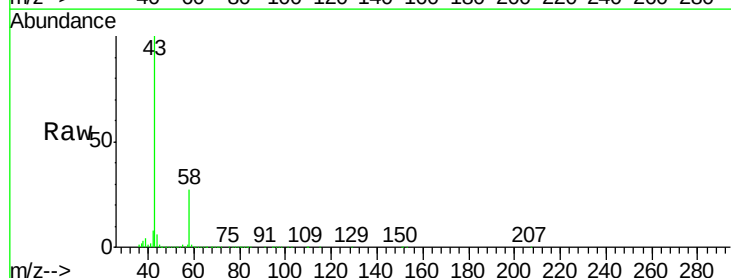
RT: 2.45 min Scan# 305

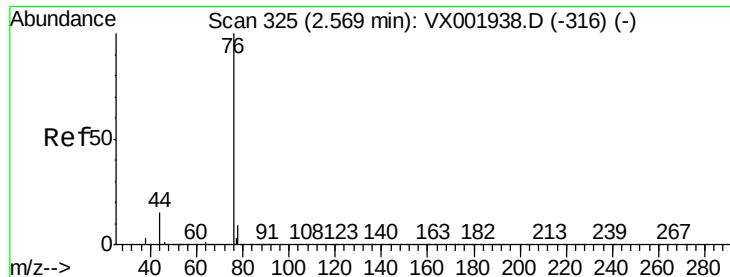
Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	43	Resp:	206939
Ion Ratio		Lower	Upper
43	100		
58	26.9	22.3	33.5





#17

Carbon Disulfide

Concen: 18.97 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion: 76 Resp: 168960

Ion Ratio Lower Upper

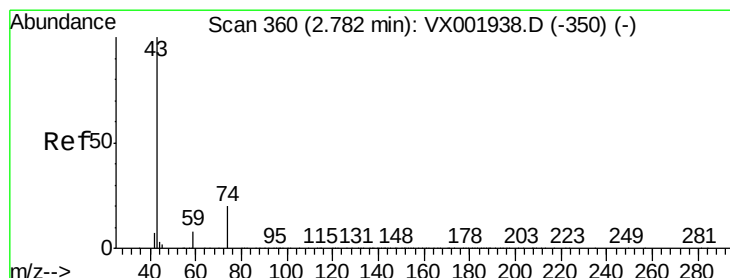
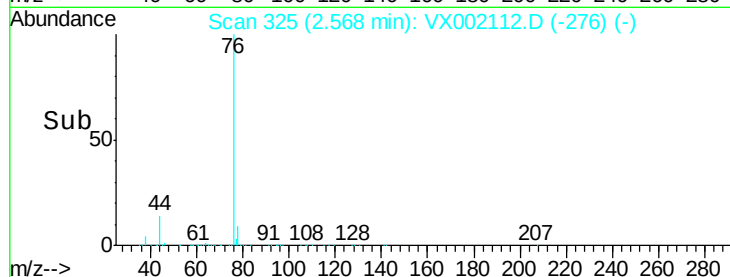
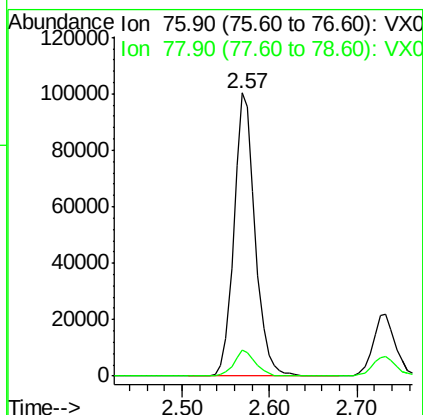
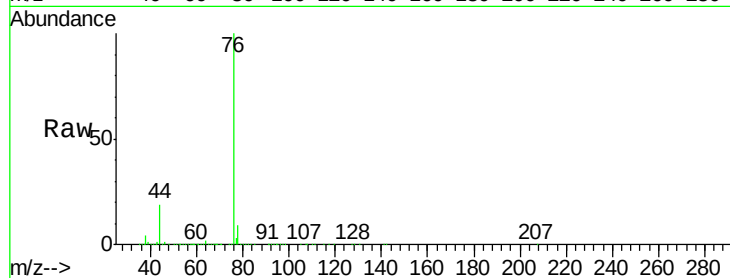
76 100

78 9.3 7.4 11.2

Manual Integrations
APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#18

Methyl Acetate

Concen: 23.25 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002112.D

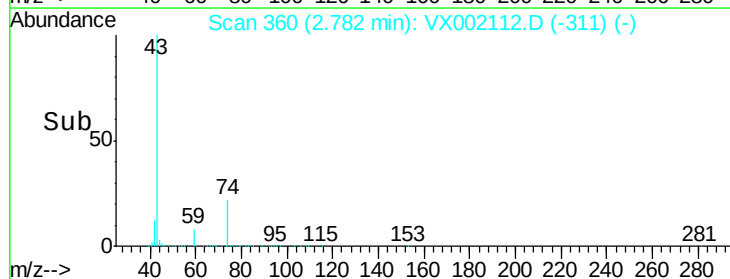
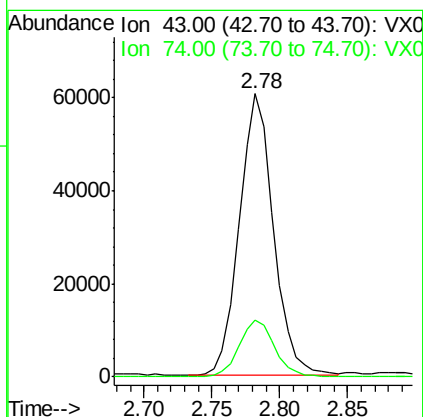
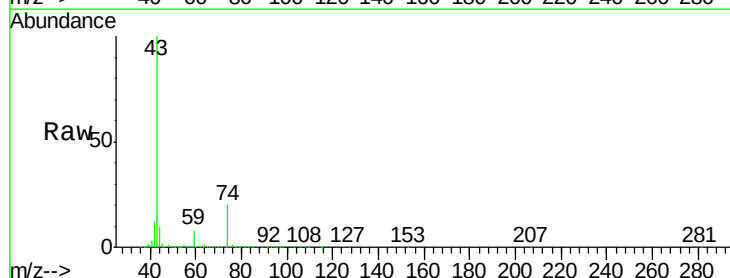
Acq: 30 May 2018 00:39

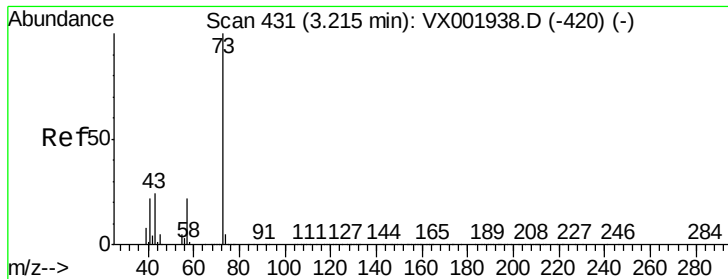
Tgt Ion: 43 Resp: 105278

Ion Ratio Lower Upper

43 100

74 20.7 16.8 25.2





#19

Methyl tert-butyl Ether

Concen: 21.93 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tot Ion: 73 Resp: 255239

Ion Ratio Lower Upper

73 100

57 21.8 17.4 26.0

Instrument :

MSVOA_X

ClientSampleId :

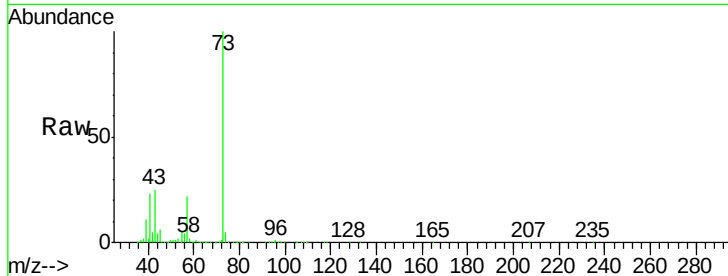
VX0529WBSD02

Manual Integrations

APPROVED

MMDadoda

5/30/2018 1:51:02 PM



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.21

120000

100000

80000

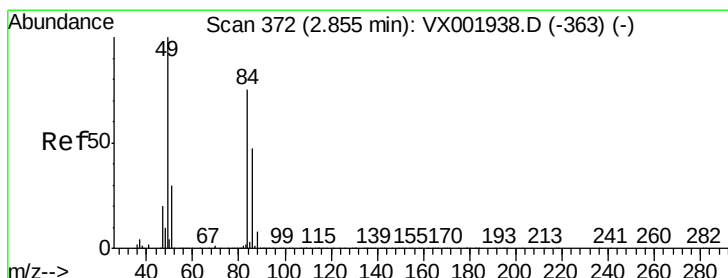
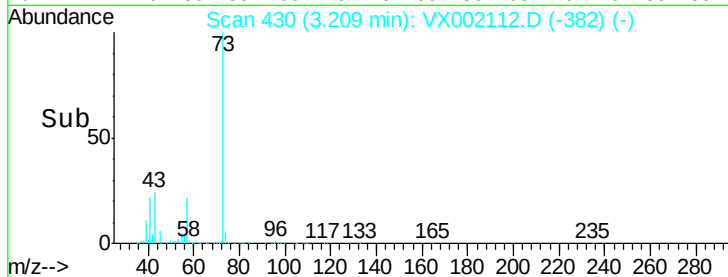
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 22.35 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion: 84 Resp: 73798

Ion Ratio Lower Upper

84 100

49 133.0 107.2 160.8

51 39.6 32.4 48.6

86 60.5 50.4 75.6

Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

80000

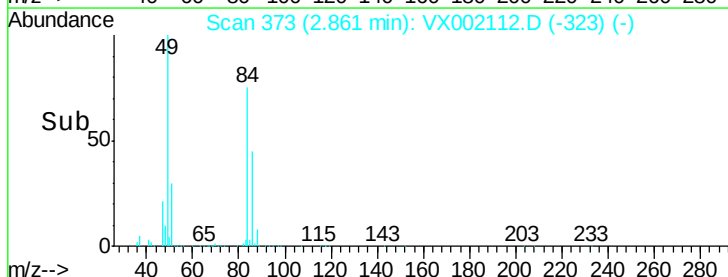
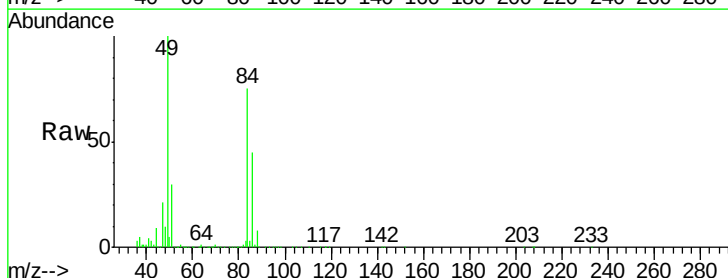
60000

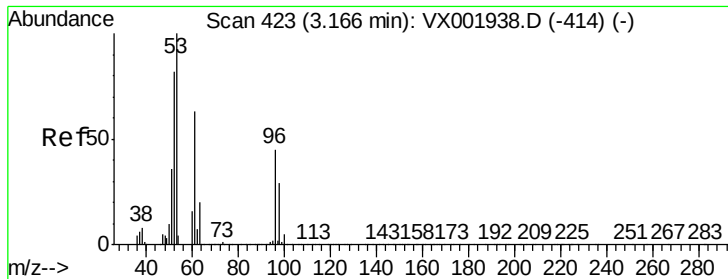
40000

20000

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 21.97 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

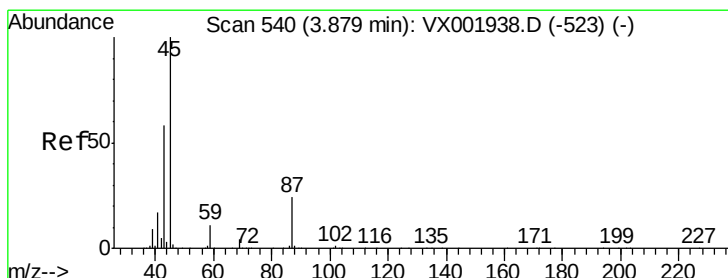
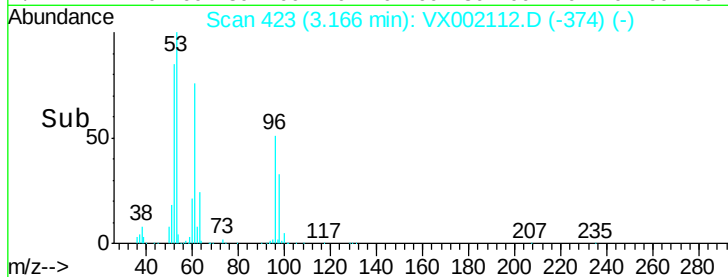
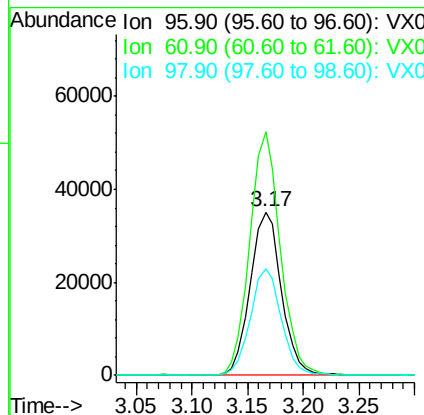
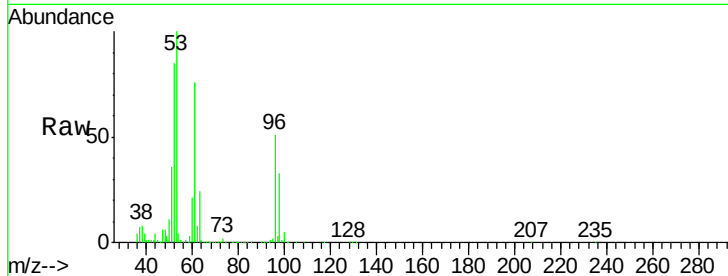
ClientSampleId :

VX0529WBSD02

Tot Ion:	96	Resp:	68875
Ion	Ratio	Lower	Upper
96	100		
61	149.0	113.3	169.9
98	65.1	51.7	77.5

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#22

Diisopropyl ether

Concen: 19.53 ug/l

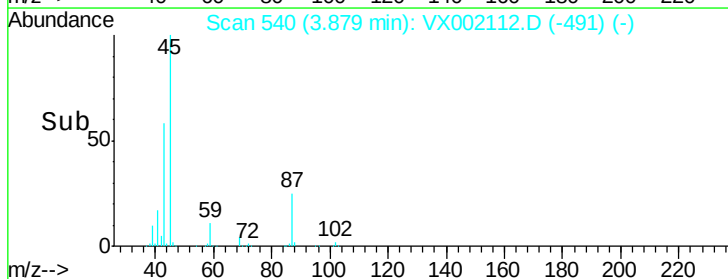
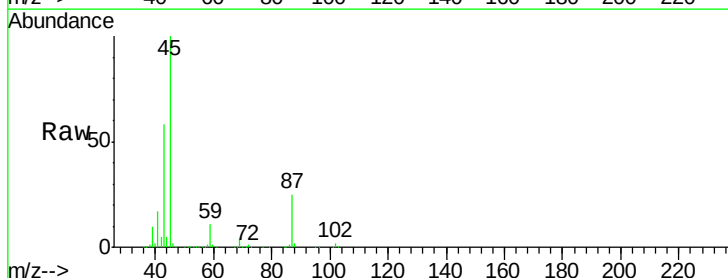
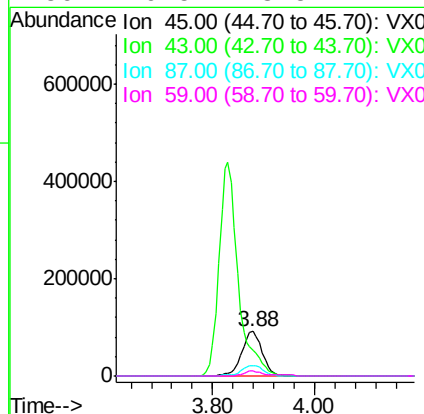
RT: 3.88 min Scan# 540

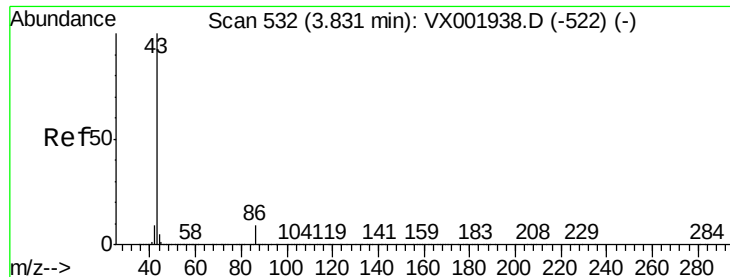
Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	45	Resp:	258117
Ion	Ratio	Lower	Upper
45	100		
43	58.0	47.0	70.6
87	24.6	19.4	29.0
59	10.5	8.5	12.7





#23

Vinyl Acetate

Concen: 105.09 ug/l

RT: 3.83 min Scan# 532

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleID :

VX0529WBSD02

Tot Ion: 43 Resp: 1151354

Ion Ratio Lower Upper

43 100

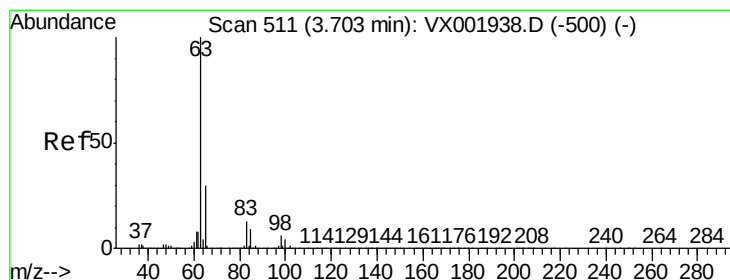
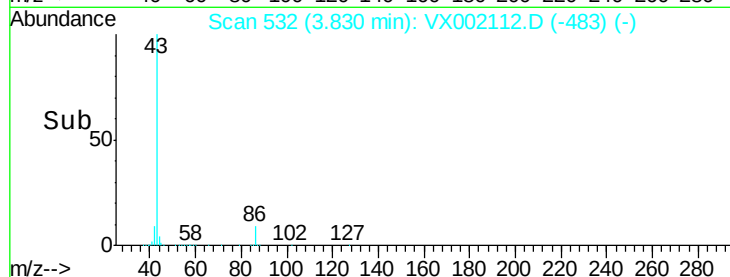
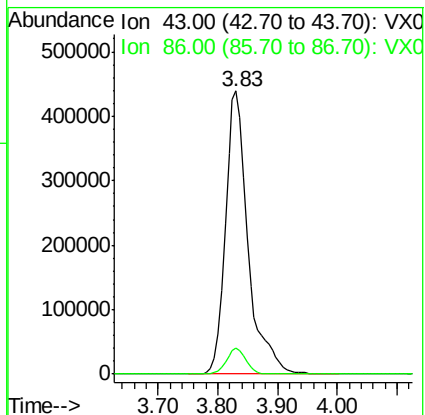
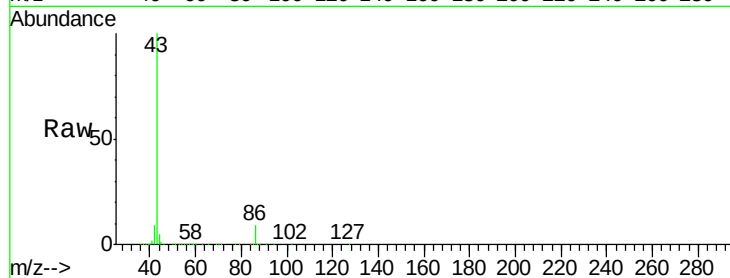
86 9.1 7.6 11.4

Manual Integrations

APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#24

1,1-Dichloroethane

Concen: 20.67 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

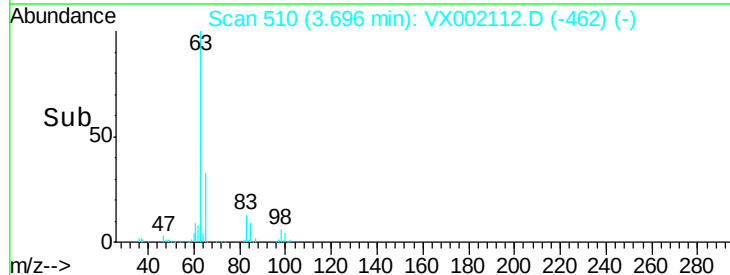
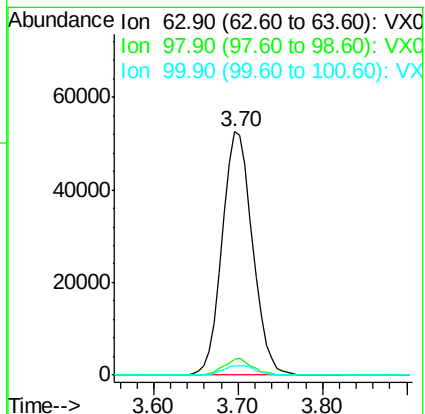
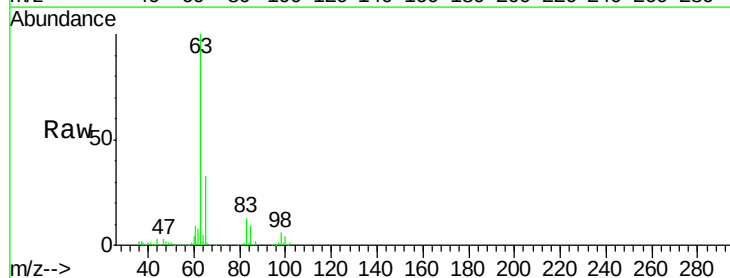
Tgt Ion: 63 Resp: 129752

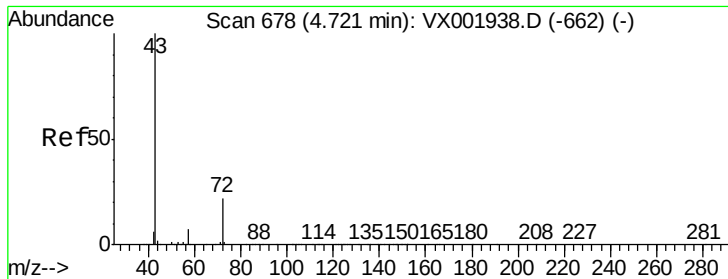
Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.8

100 4.0 2.1 6.5





#25

2-Butanone

Concen: 97.66 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tot Ion: 43 Resp: 327852

Ion Ratio Lower Upper

43 100

72 22.2 17.9 26.9

Instrument :

MSVOA_X

ClientSampleId :

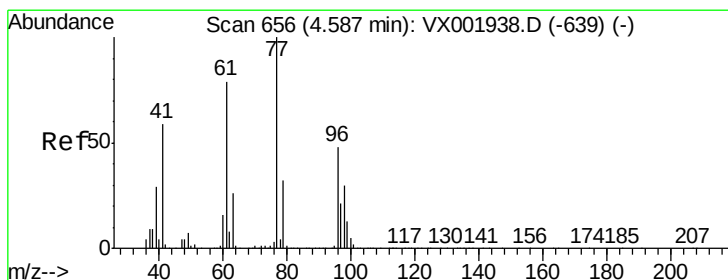
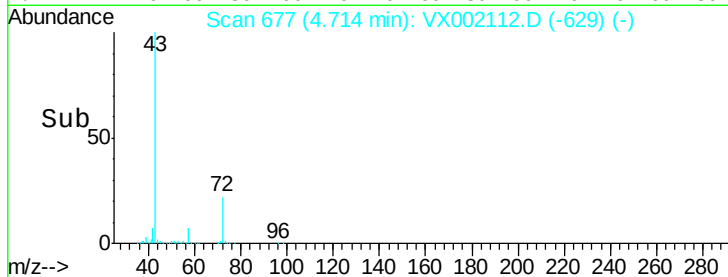
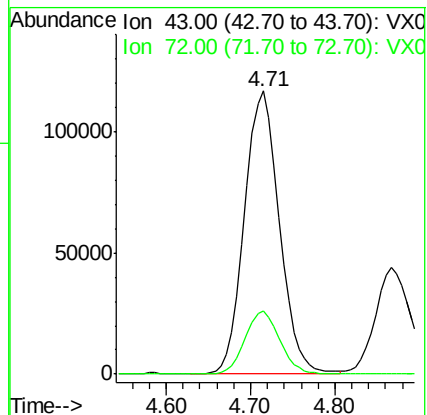
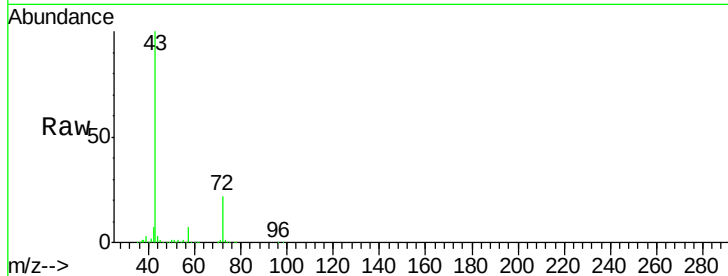
VX0529WBSD02

Manual Integrations

APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#26

2,2-Dichloropropane

Concen: 13.82 ug/l

RT: 4.59 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX002112.D

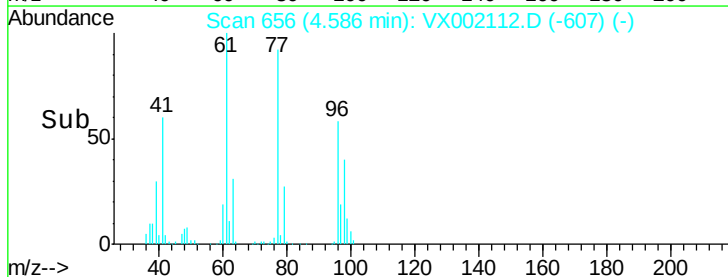
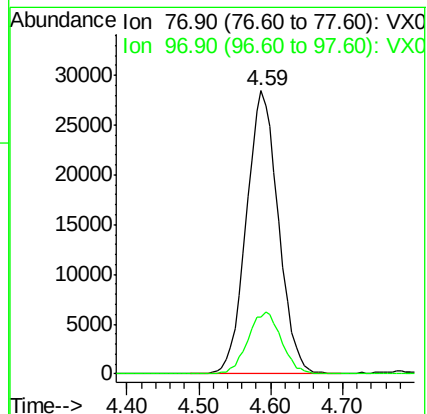
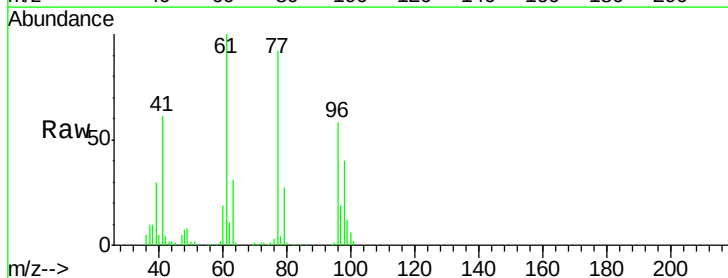
Acq: 30 May 2018 00:39

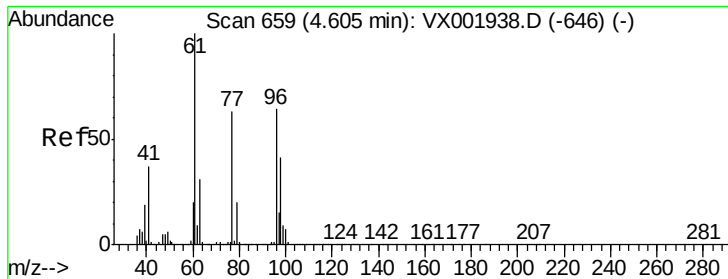
Tgt Ion: 77 Resp: 87785

Ion Ratio Lower Upper

77 100

97 22.9 11.2 33.5





#27

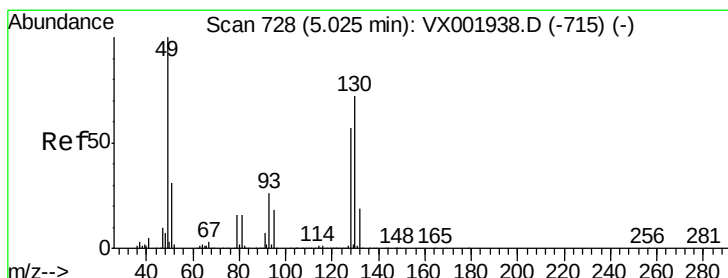
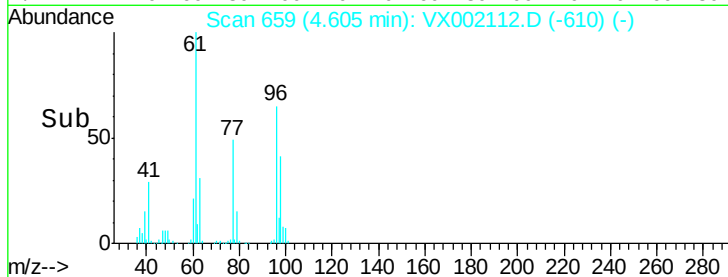
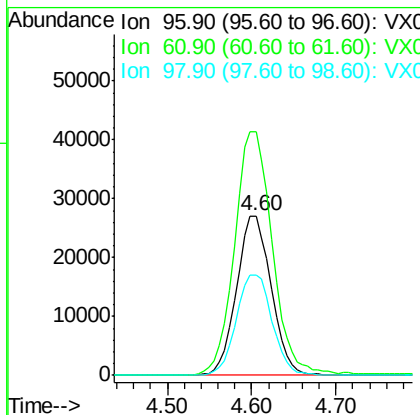
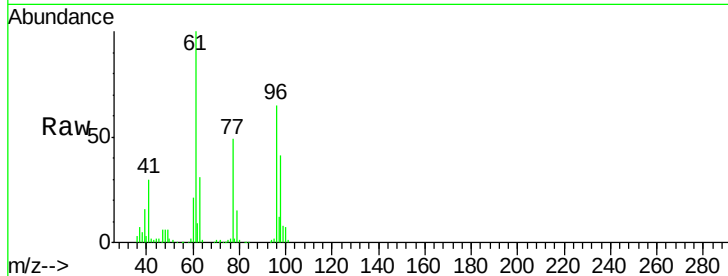
cis-1,2-Dichloroethene
 Concen: 18.70 ug/l
 RT: 4.60 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	167.6	0.0	348.4
98	65.3	0.0	128.6

Manual Integrations
 APPROVED

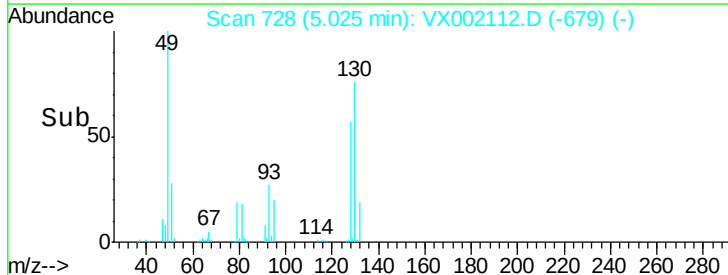
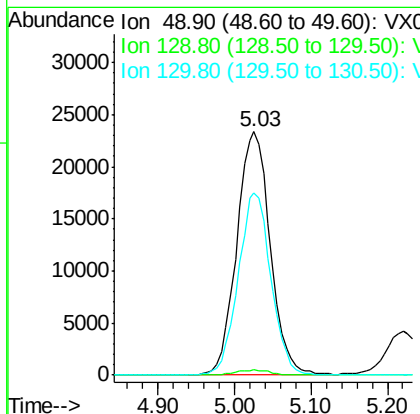
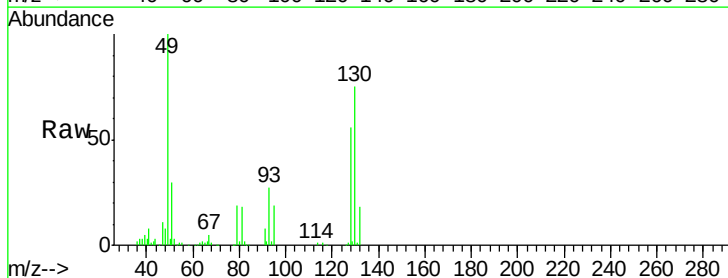
MMDadoda
 5/30/2018 1:51:02 PM

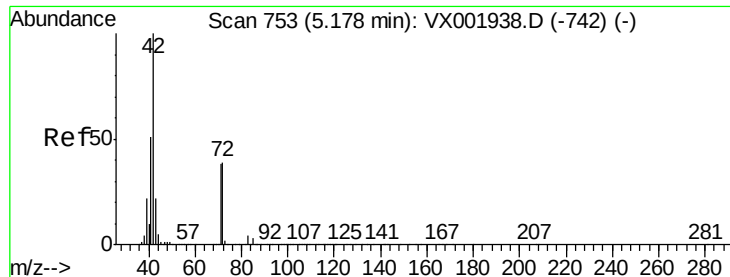


#28

Bromochloromethane
 Concen: 25.94 ug/l
 RT: 5.03 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	3.8
130	73.1	59.4	89.2





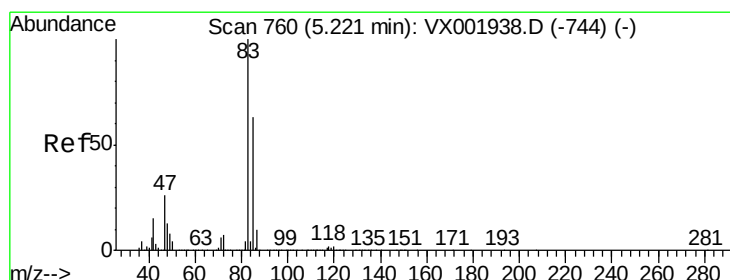
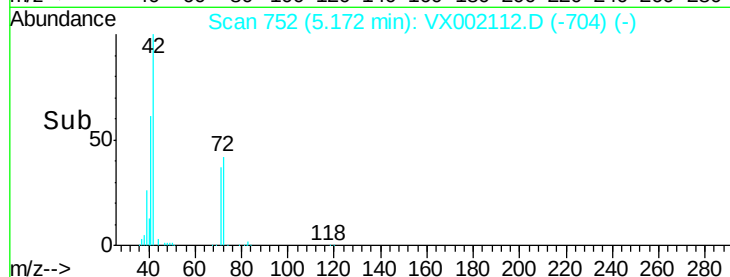
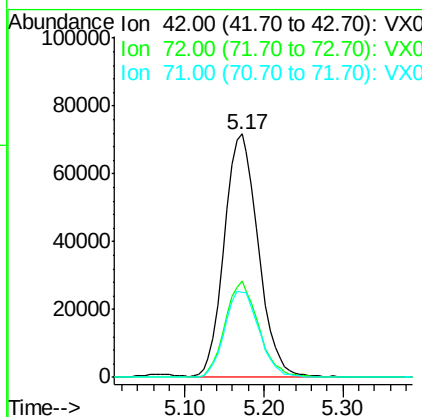
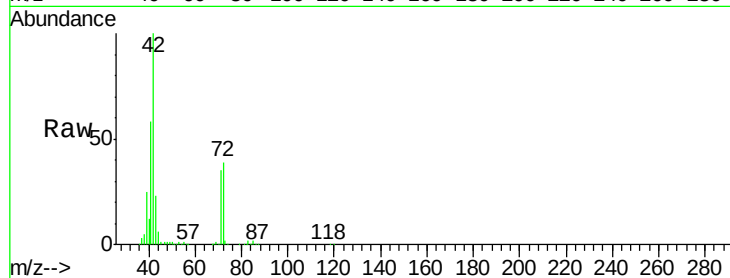
#29
Tetrahydrofuran
Concen: 97.96 ug/l
RT: 5.17 min Scan# 752
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
42	100		213958		
72	39.2	31.4	47.0		
71	36.2	29.5	44.3		

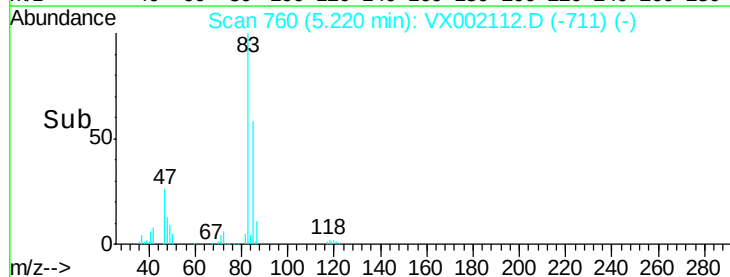
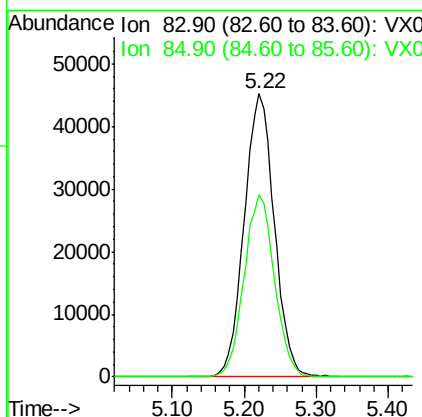
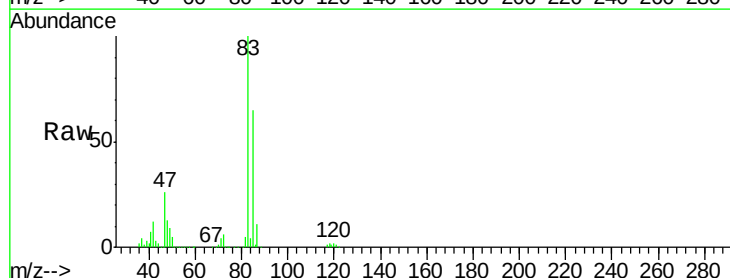
Manual Integrations
APPROVED

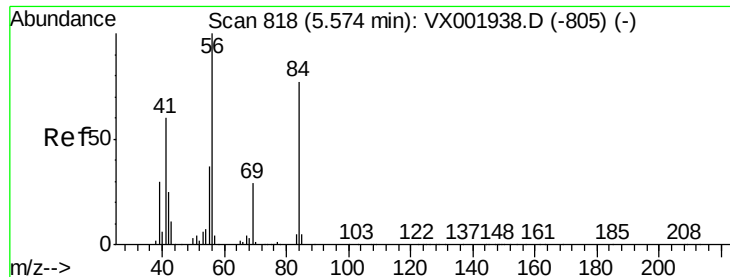
MMDadoda
5/30/2018 1:51:02 PM



#30
Chloroform
Concen: 18.59 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		131454		
85	64.6	50.9	76.3		





#31

Cyclohexane

Concen: 18.25 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

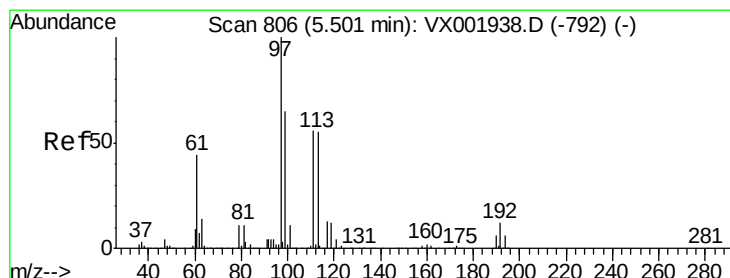
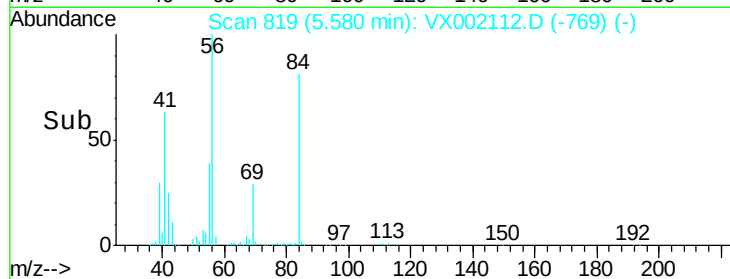
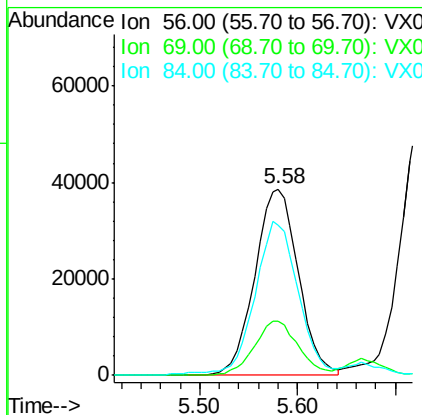
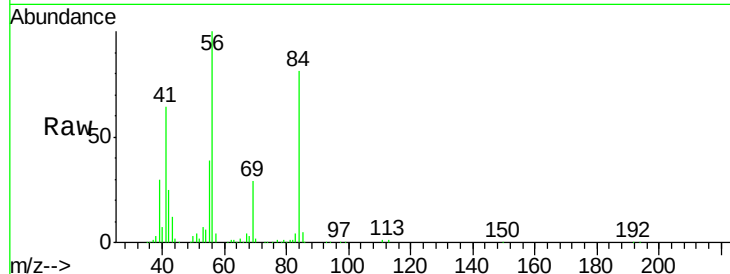
ClientSampleId :

VX0529WBSD02

Tot Ion:	56	Resp:	119353
Ion Ratio	Lower	Upper	
56	100		
69	28.8	23.1	34.7
84	79.4	62.0	93.0

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#32

1,1,1-Trichloroethane

Concen: 17.90 ug/l

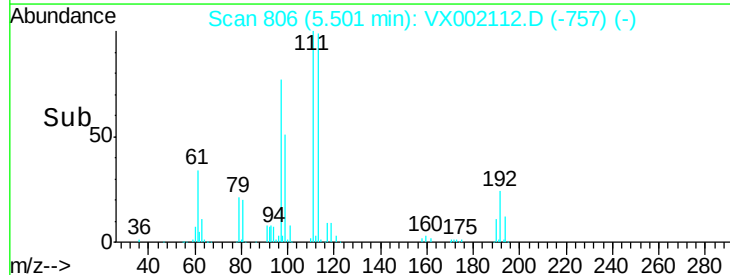
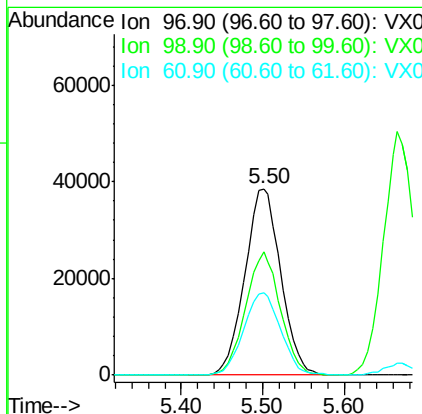
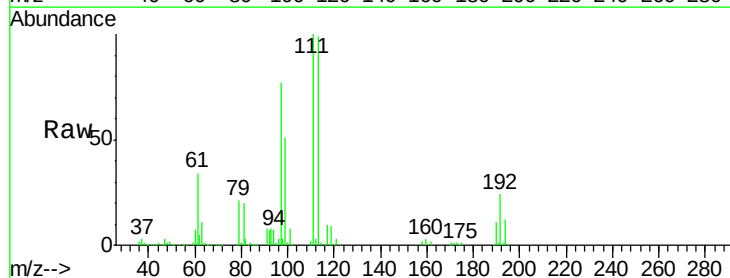
RT: 5.50 min Scan# 806

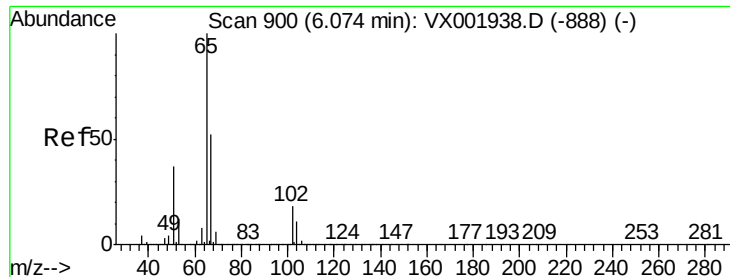
Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	97	Resp:	118024
Ion Ratio	Lower	Upper	
97	100		
99	64.0	51.9	77.9
61	45.7	35.9	53.9





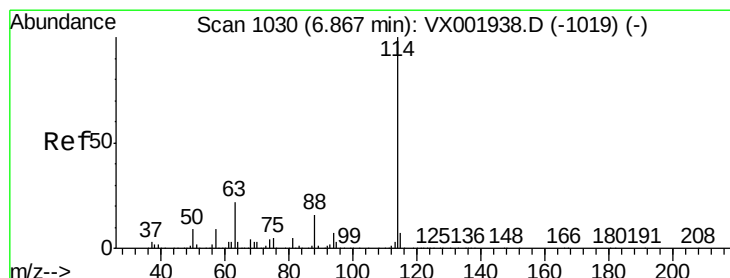
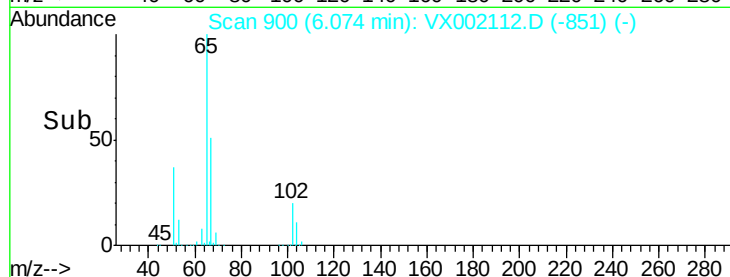
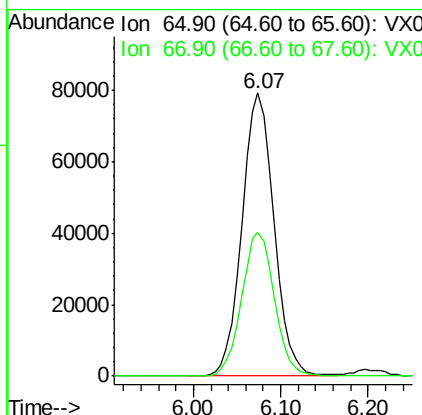
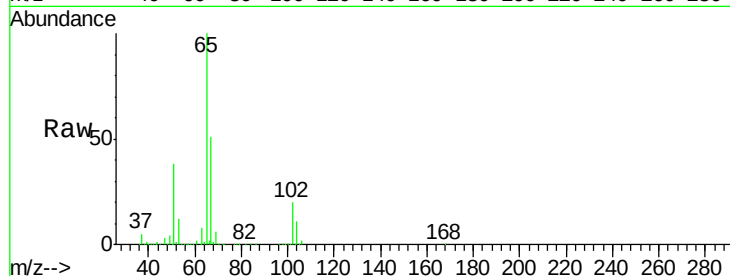
#33
 1,2-Dichloroethane-d4
 Concen: 42.44 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	201428		
67	51.9	0.0	104.0	

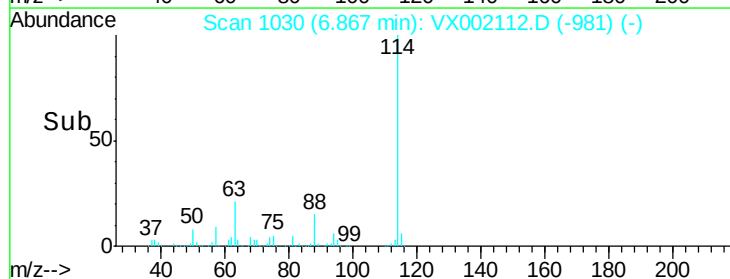
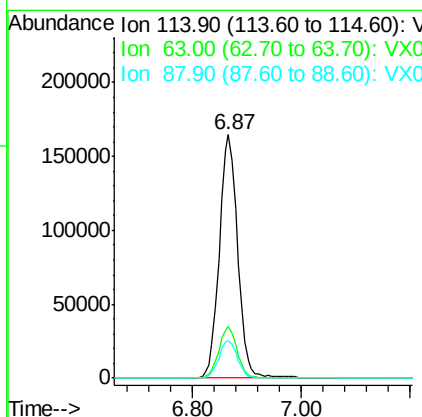
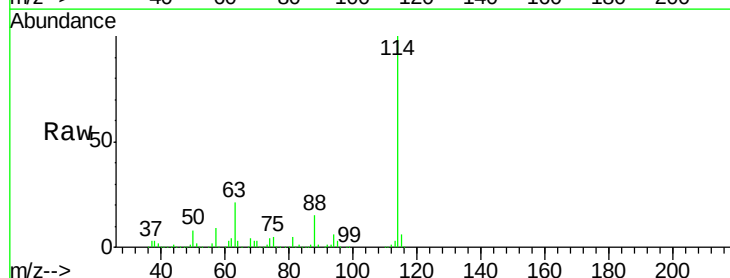
Manual Integrations
 APPROVED

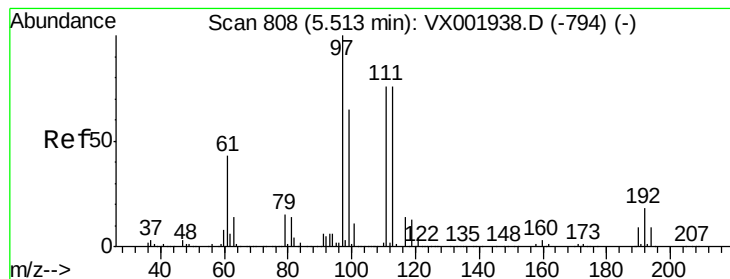
MMDadoda
 5/30/2018 1:51:02 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	386732		
63	21.3	0.0	43.2	
88	15.3	0.0	31.6	





#35

Dibromofluoromethane

Concen: 39.29 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

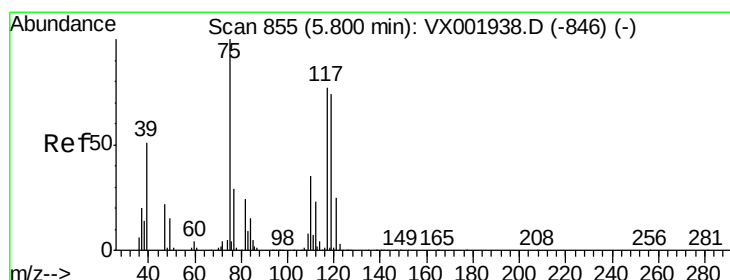
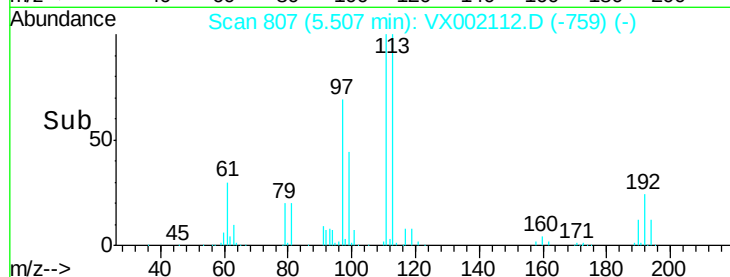
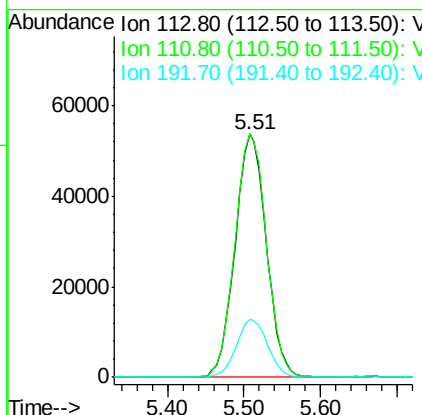
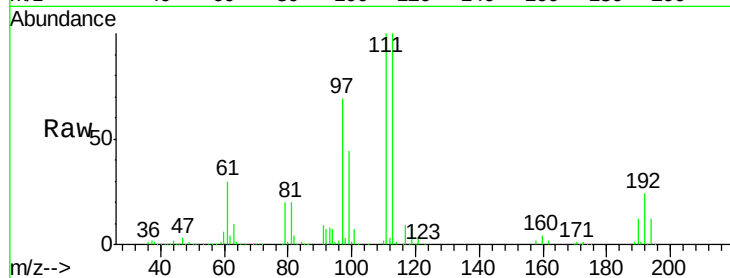
ClientSampleId :

VX0529WBSD02

Tot Ion:	113	Resp:	151961
Ion Ratio	Lower	Upper	
113	100		
111	101.2	82.0	123.0
192	23.9	18.9	28.3

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#36

1,1-Dichloropropene

Concen: 17.64 ug/l

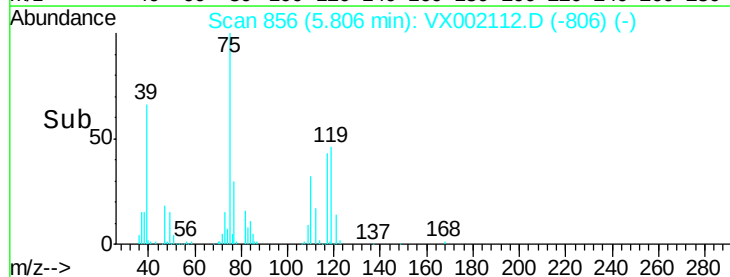
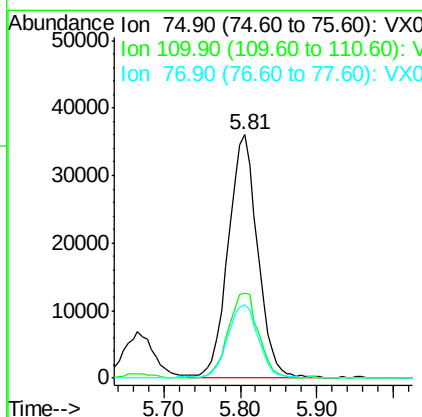
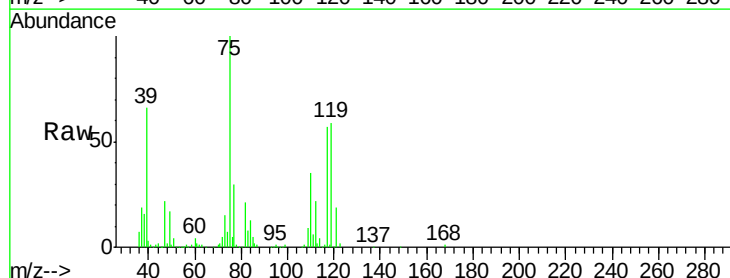
RT: 5.81 min Scan# 856

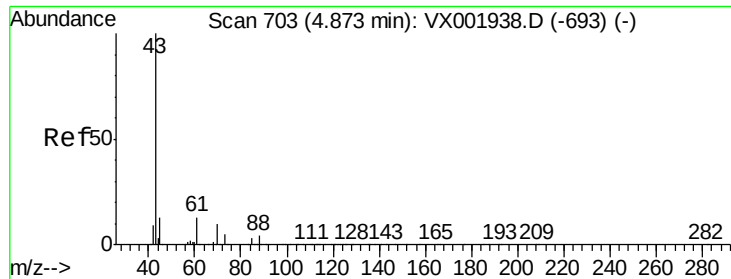
Delta R.T. 0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	75	Resp:	94874
Ion Ratio	Lower	Upper	
75	100		
110	36.4	17.4	52.2
77	31.1	24.4	36.6





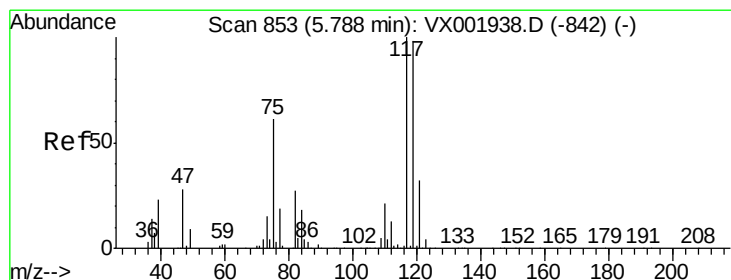
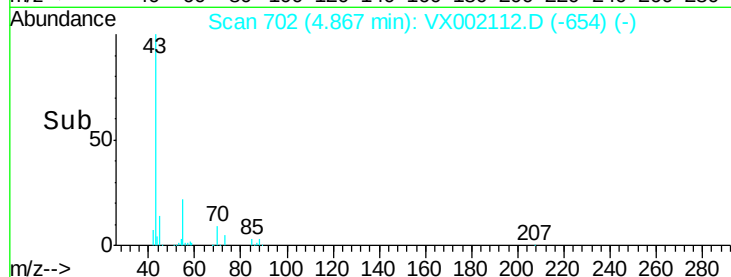
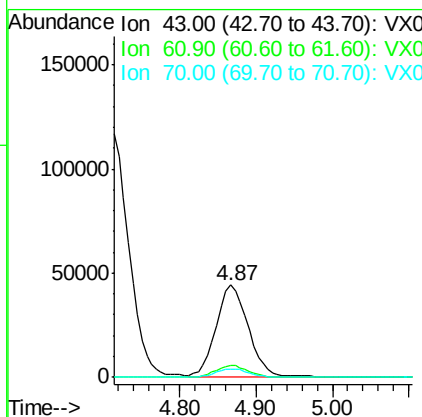
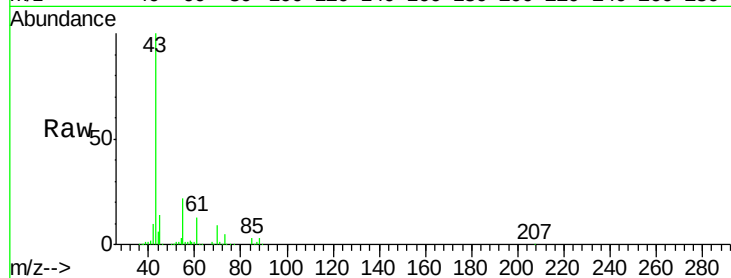
#37
Ethyl Acetate
Concen: 18.24 ug/l
RT: 4.87 min Scan# 702
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.2	15.2
70	9.4	7.8	11.8

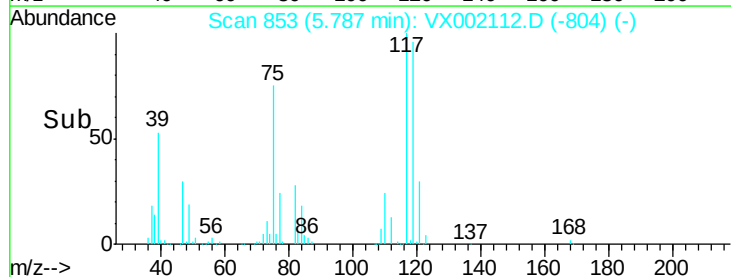
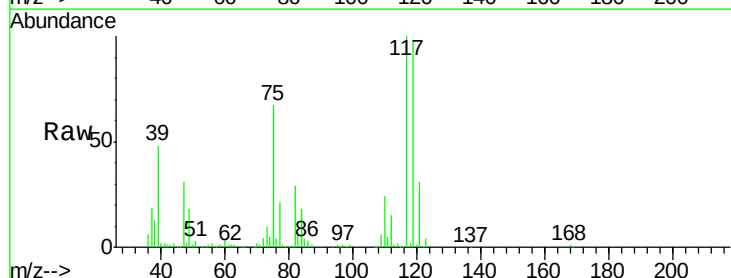
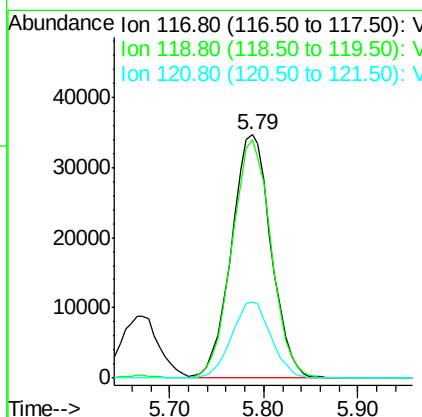
Manual Integrations
APPROVED

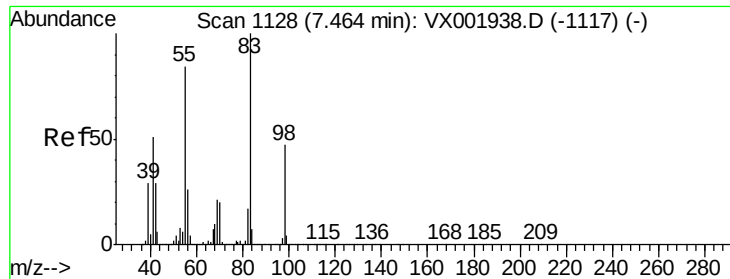
MMDadoda
5/30/2018 1:51:02 PM



#38
Carbon Tetrachloride
Concen: 16.27 ug/l
RT: 5.79 min Scan# 853
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	78.5	117.7
121	31.3	25.5	38.3





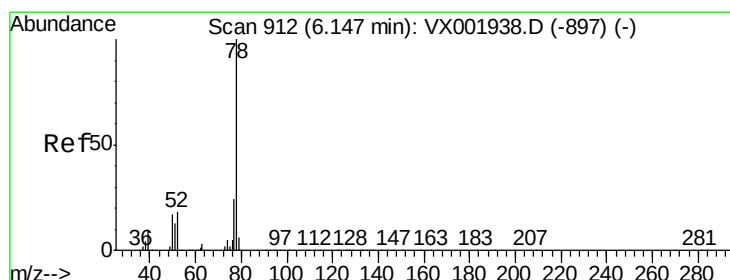
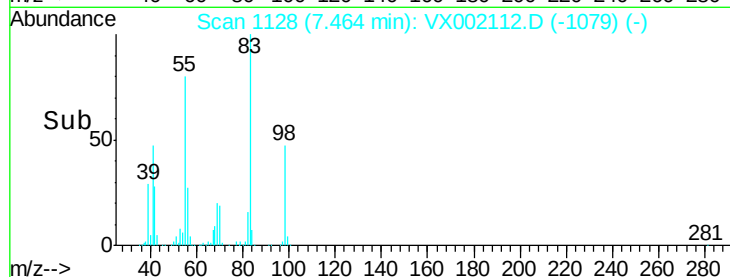
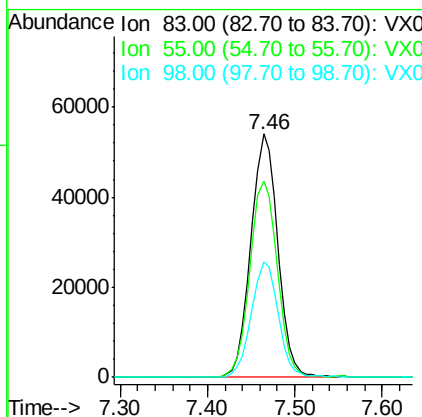
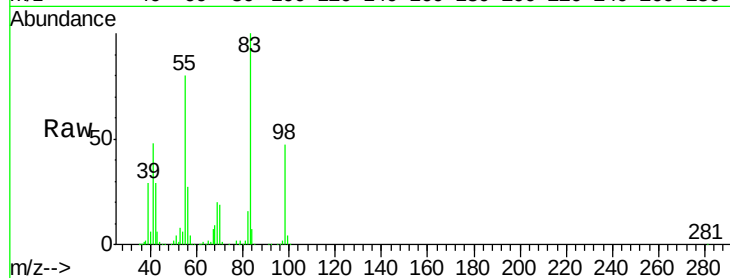
#39
Methylvlcyclohexane
Concen: 17.57 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.2	67.3	100.9
98	47.4	37.5	56.3

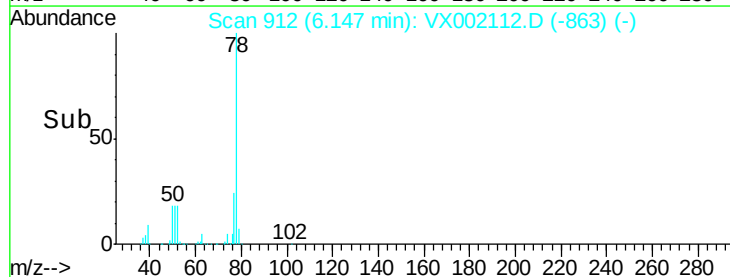
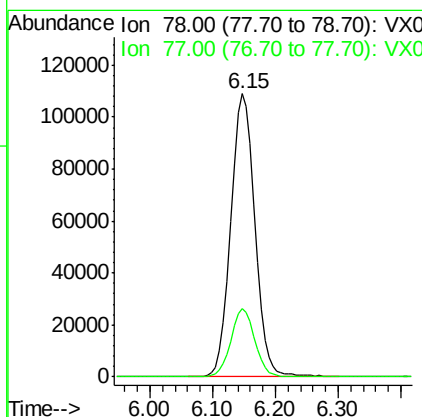
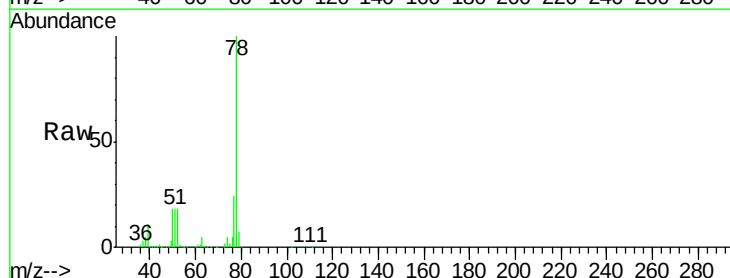
Manual Integrations
APPROVED

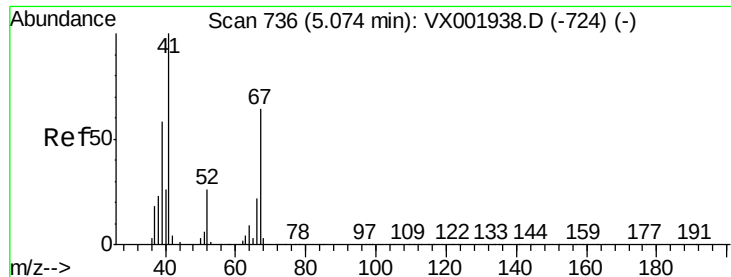
MMDadoda
5/30/2018 1:51:02 PM



#40
Benzene
Concen: 18.46 ug/l
RT: 6.15 min Scan# 912
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.1	28.7





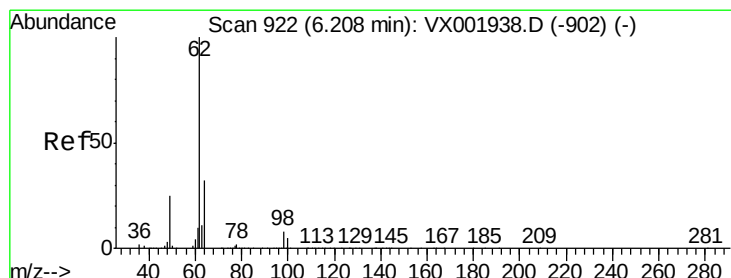
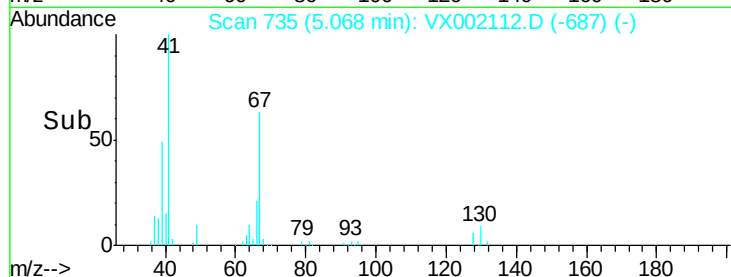
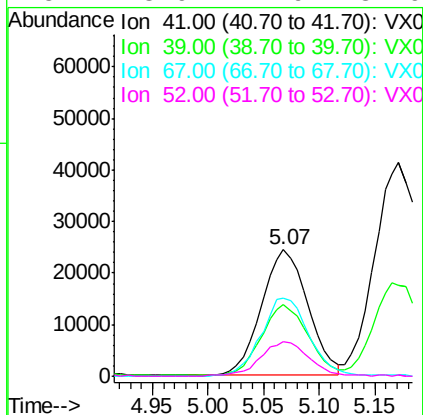
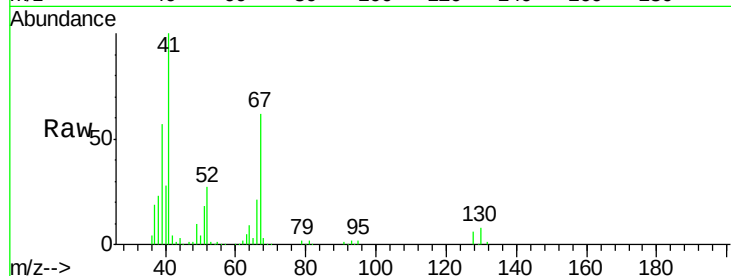
#41
Methacrylonitrile
Concen: 18.35 ug/l
RT: 5.07 min Scan# 735
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.2	46.0	69.0	
67	63.7	50.6	75.8	
52	28.9	21.9	32.9	

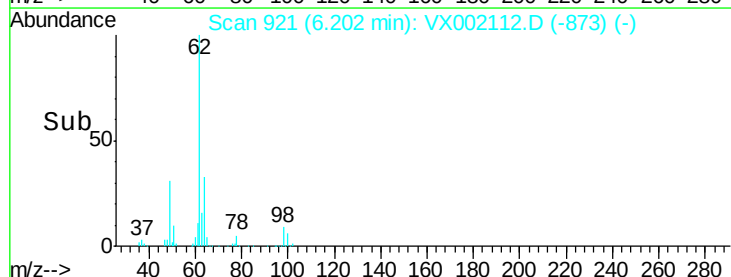
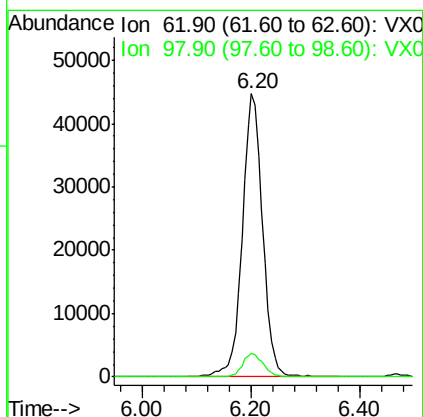
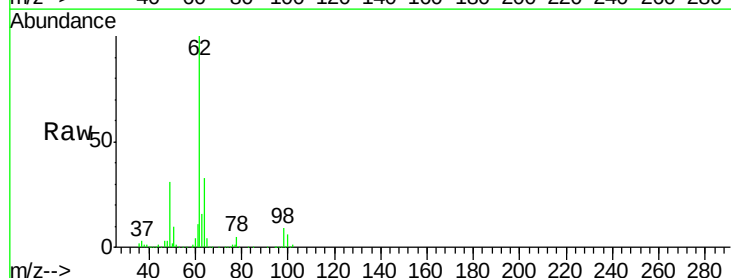
Manual Integrations
APPROVED

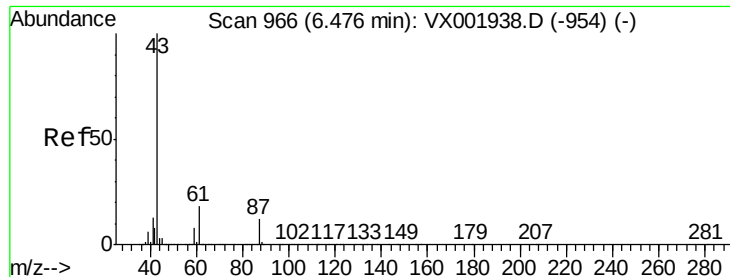
MMDadoda
5/30/2018 1:51:02 PM



#42
1,2-Dichloroethane
Concen: 18.38 ug/l
RT: 6.20 min Scan# 921
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	17.0	





#43

Isopropyl Acetate

Concen: 18.19 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

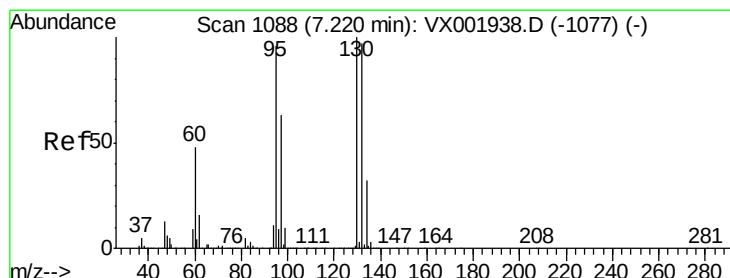
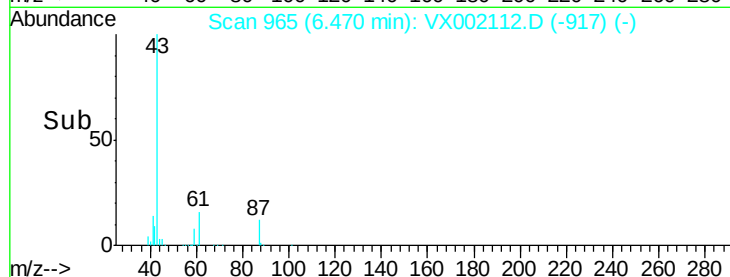
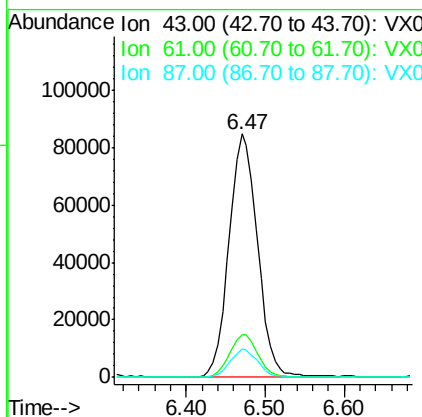
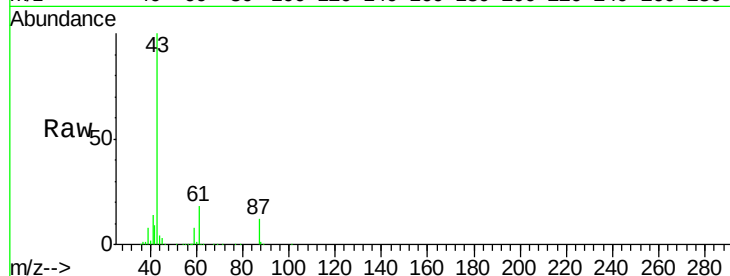
ClientSampleId :

VX0529WBSD02

Tot Ion:	43	Resp:	212567
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.5	21.7
87	11.2	9.5	14.3

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#44

Trichloroethene

Concen: 18.18 ug/l

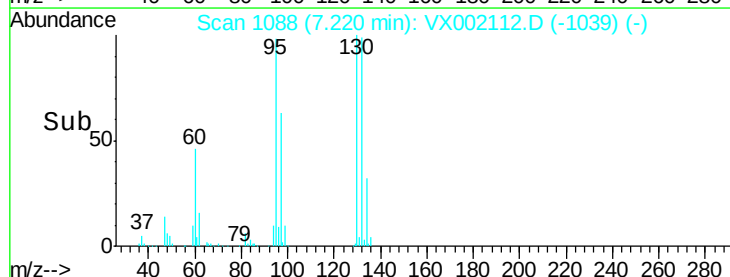
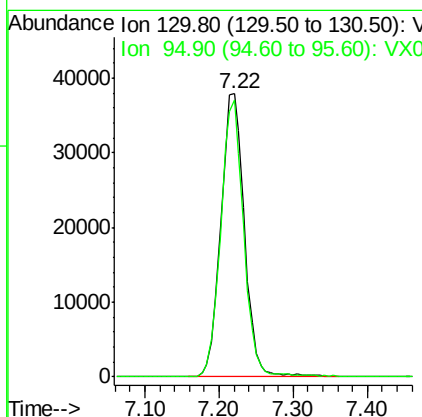
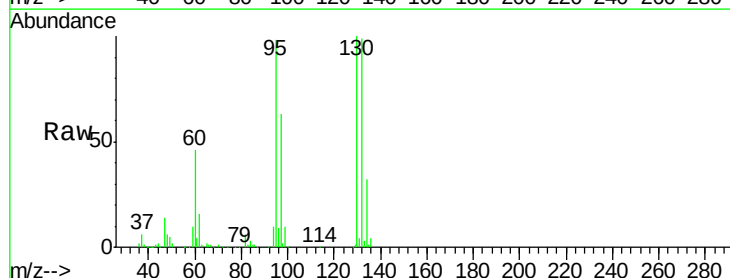
RT: 7.22 min Scan# 1088

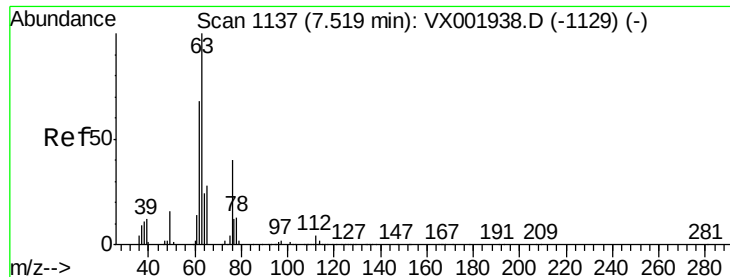
Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	130	Resp:	83472
Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	192.0





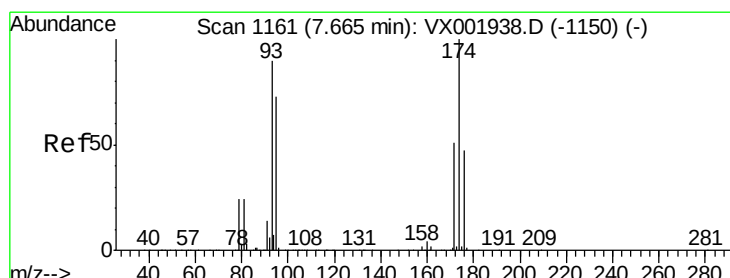
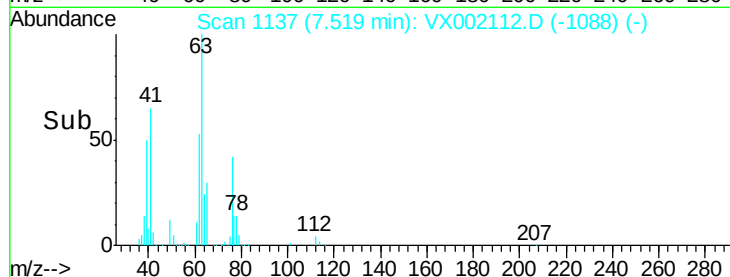
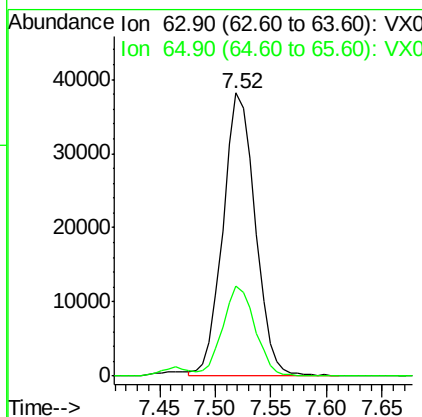
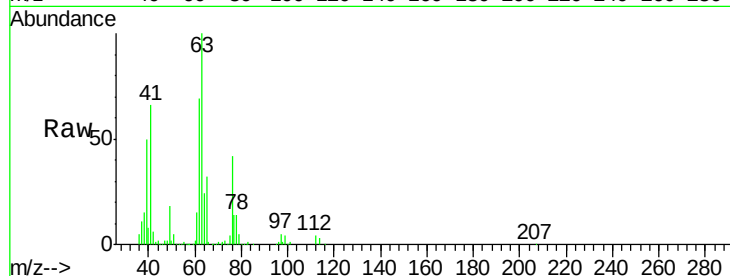
#45
 1,2-Dichloropropane
 Concen: 17.84 ug/l
 RT: 7.52 min Scan# 1137
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.1	36.1

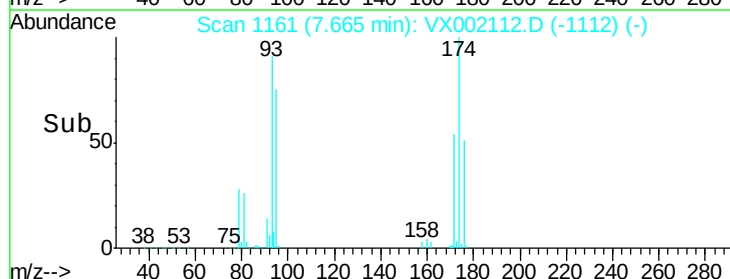
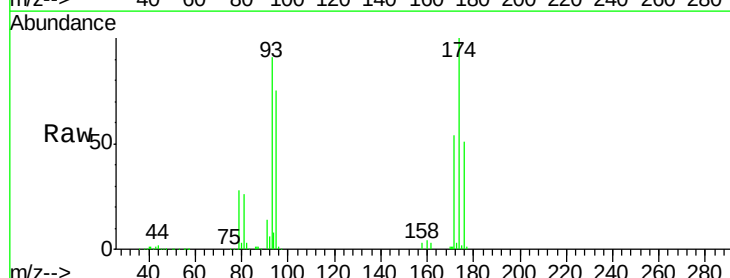
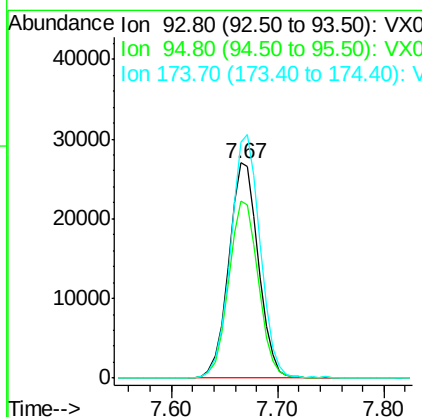
Manual Integrations
 APPROVED

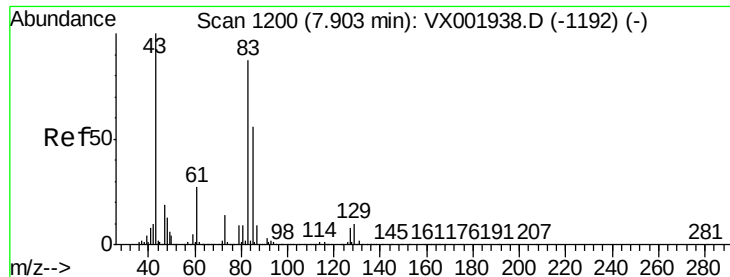
MMDadoda
 5/30/2018 1:51:02 PM



#46
 Dibromomethane
 Concen: 18.65 ug/l
 RT: 7.67 min Scan# 1161
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.1	99.1
174	112.4	92.5	138.7





#47

Bromodichloromethane

Concen: 16.40 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

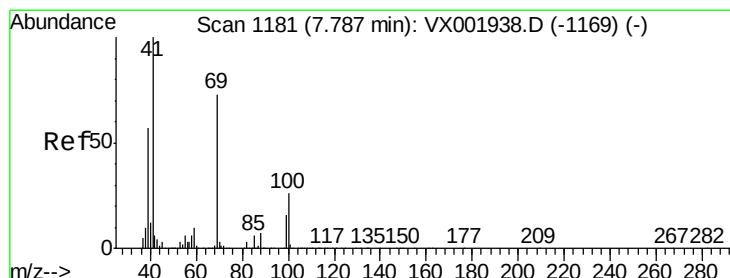
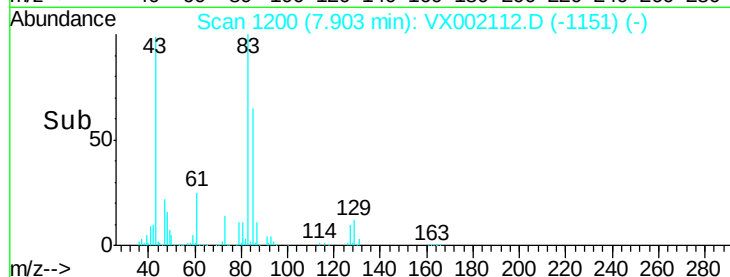
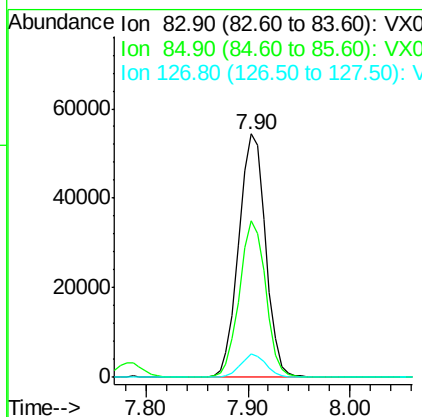
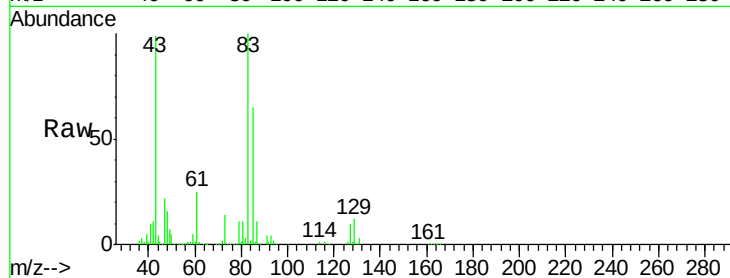
ClientSampleId :

VX0529WBSD02

Tot Ion:	83	Resp:	99076
Ion Ratio	Lower	Upper	
83	100		
85	64.4	51.4	77.2
127	9.7	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#48

Methyl methacrylate

Concen: 17.95 ug/l

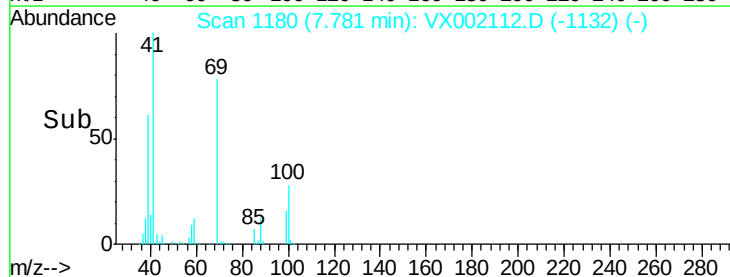
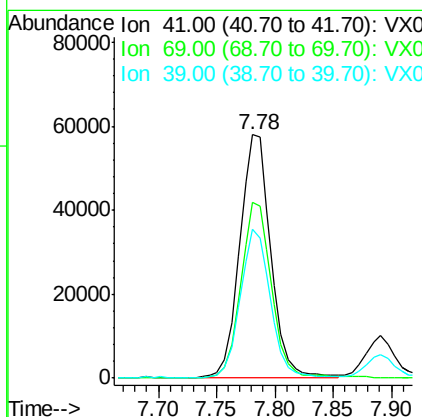
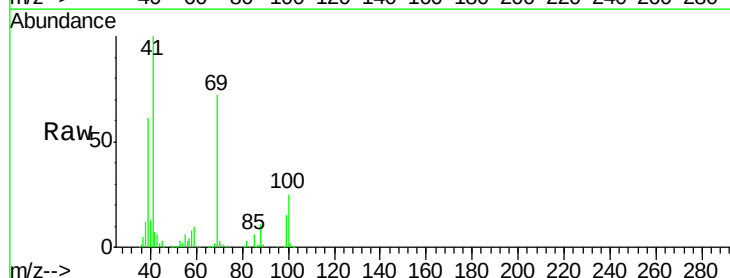
RT: 7.78 min Scan# 1180

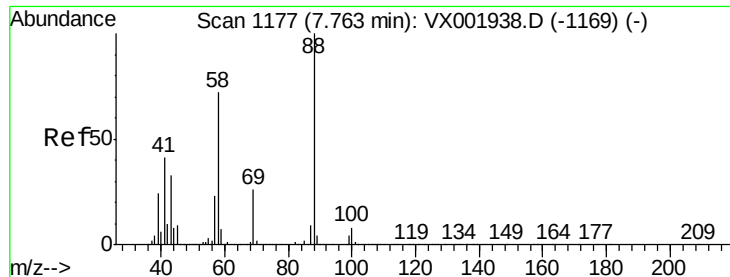
Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	41	Resp:	106765
Ion Ratio	Lower	Upper	
41	100		
69	72.4	58.6	87.8
39	59.5	46.3	69.5





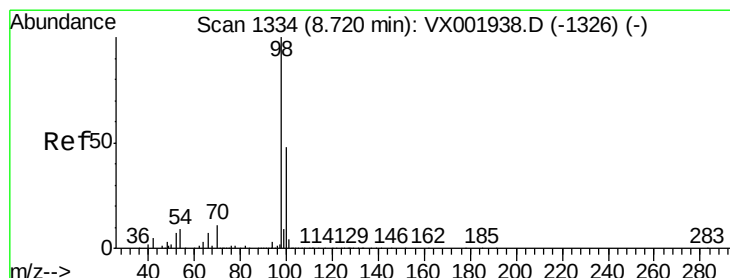
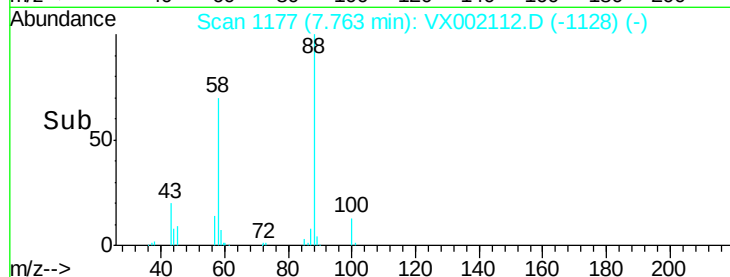
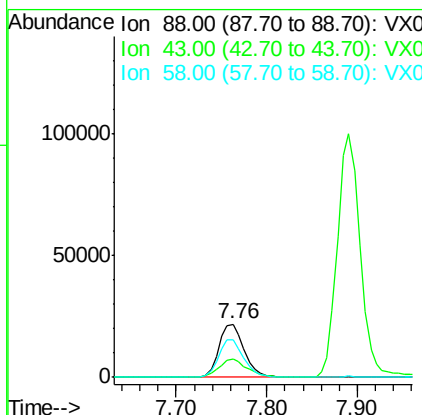
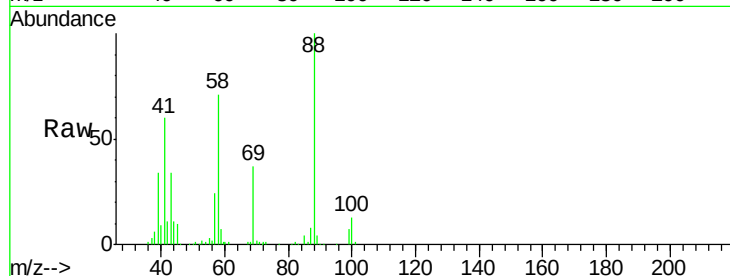
#49
1,4-Dioxane
Concen: 404.95 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.1	29.8	44.8
58	72.7	58.7	88.1

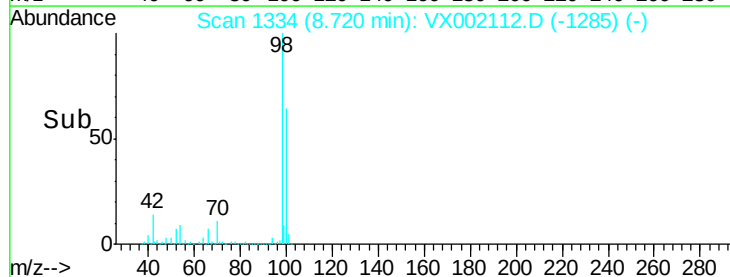
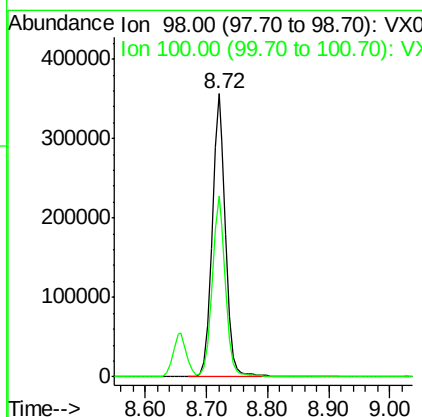
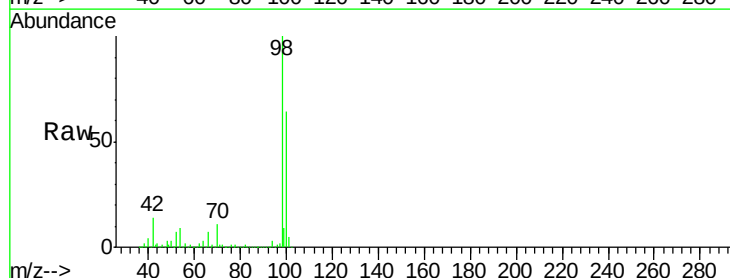
Manual Integrations
APPROVED

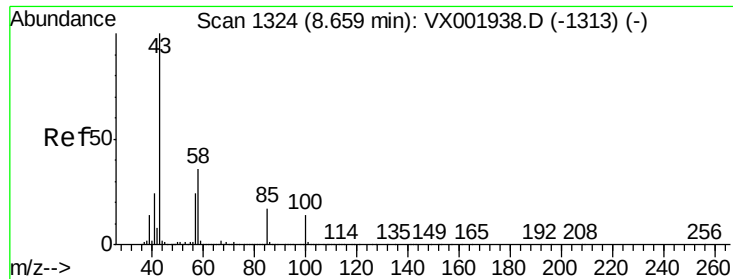
MMDadoda
5/30/2018 1:51:02 PM



#50
Toluene-d8
Concen: 39.53 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.5	77.3





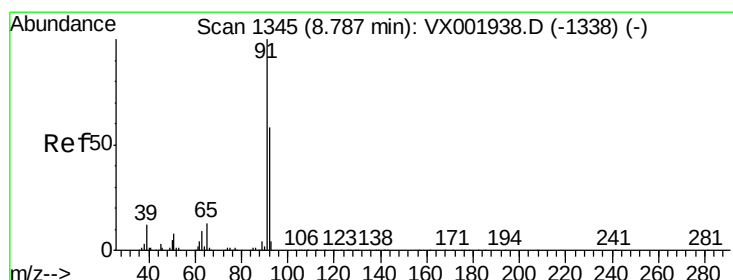
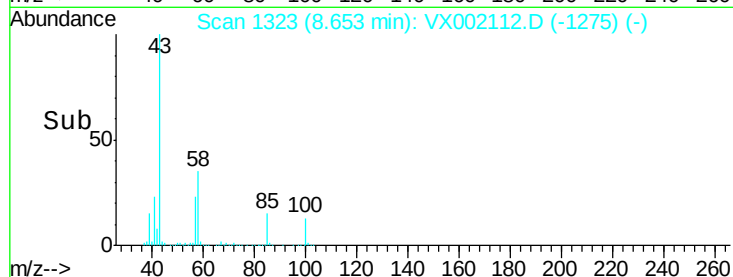
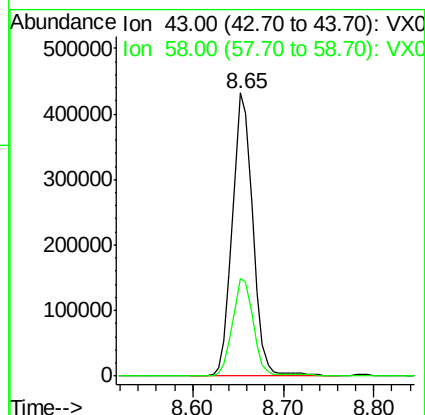
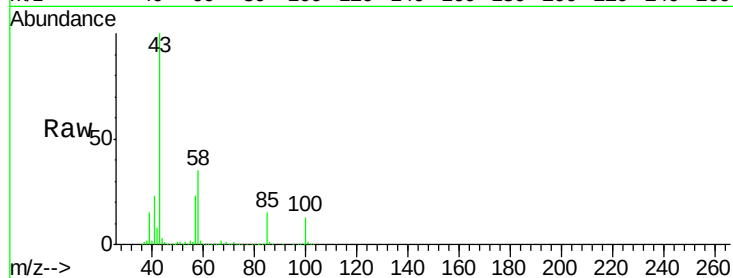
#51
4-Methyl-2-Pentanone
Concen: 96.37 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.5	42.7

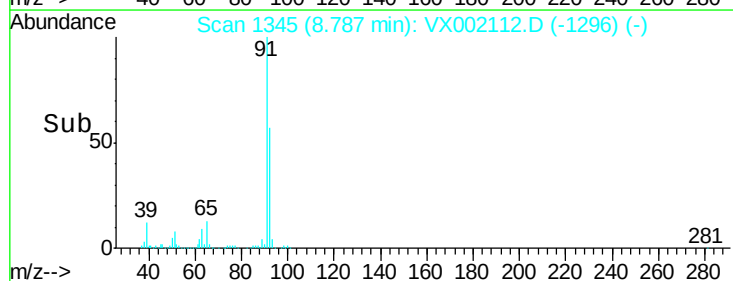
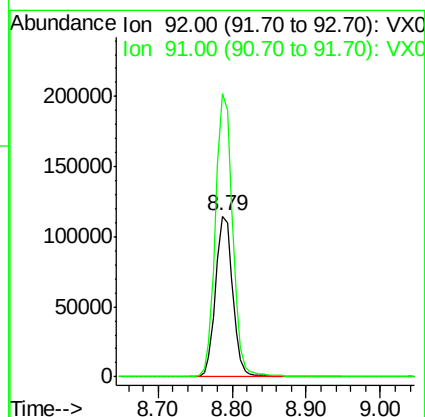
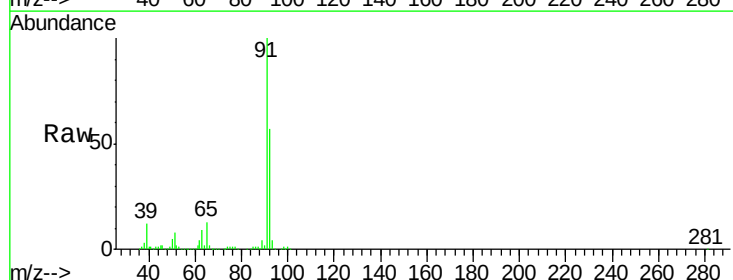
Manual Integrations
APPROVED

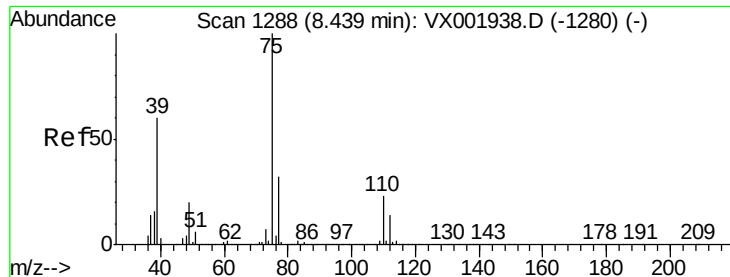
MMDadoda
5/30/2018 1:51:02 PM



#52
Toluene
Concen: 18.19 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.8	139.4	209.2





#53

t-1,3-Dichloropropene

Concen: 16.78 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion: 75 Resp: 116797

Ion Ratio Lower Upper

75 100

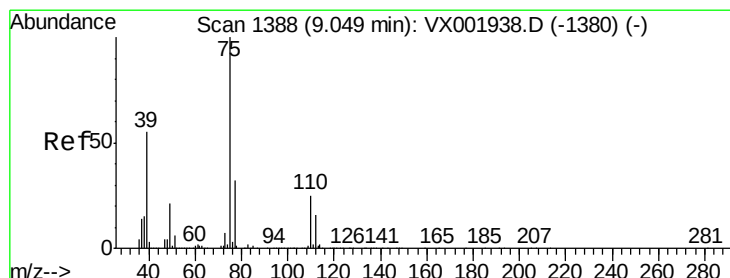
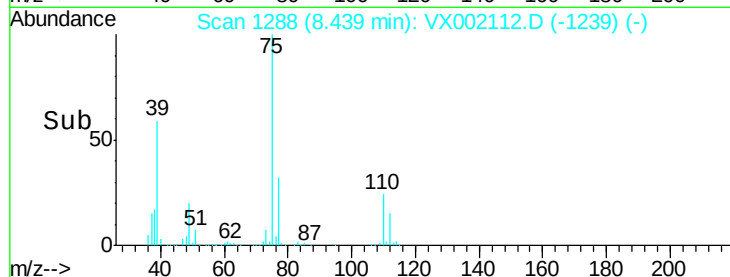
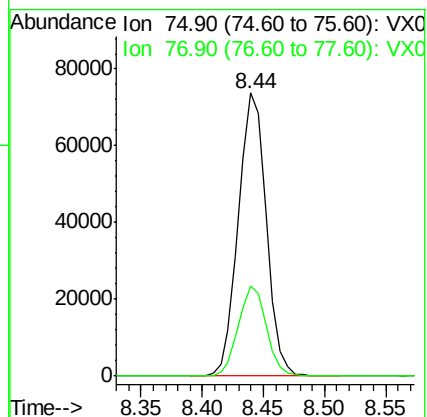
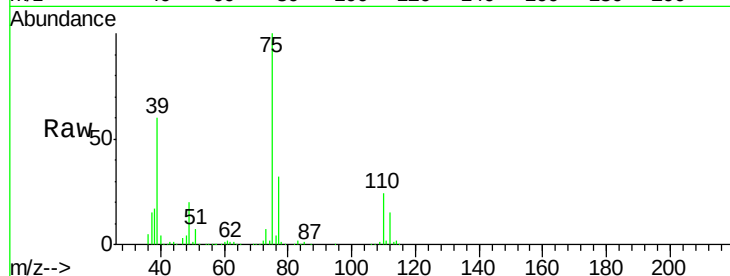
77 31.6 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#54

cis-1,3-Dichloropropene

Concen: 16.19 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

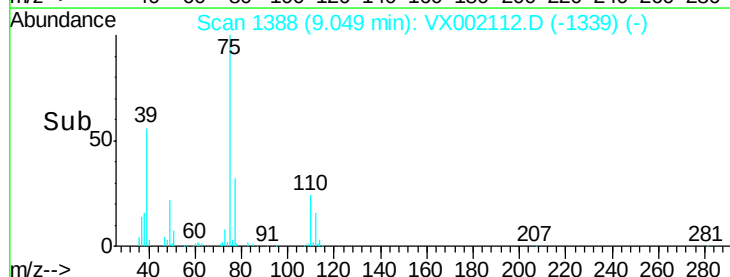
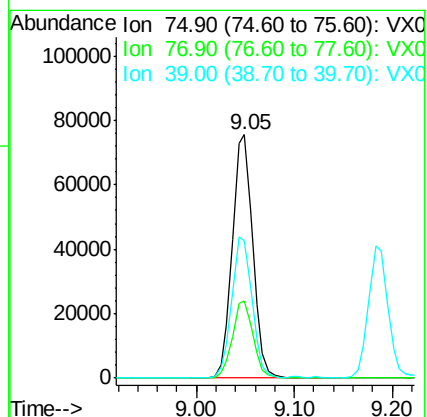
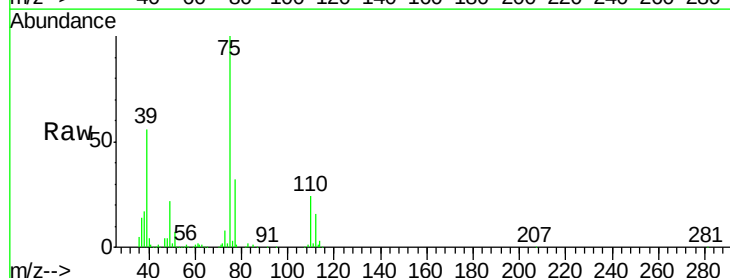
Tgt Ion: 75 Resp: 109780

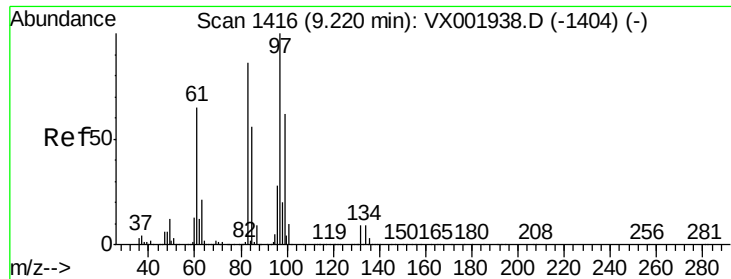
Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.0

39 56.2 44.1 66.1





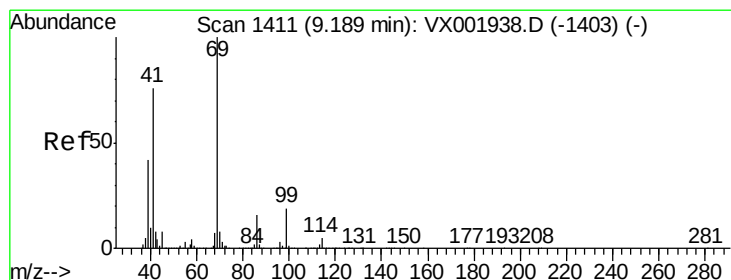
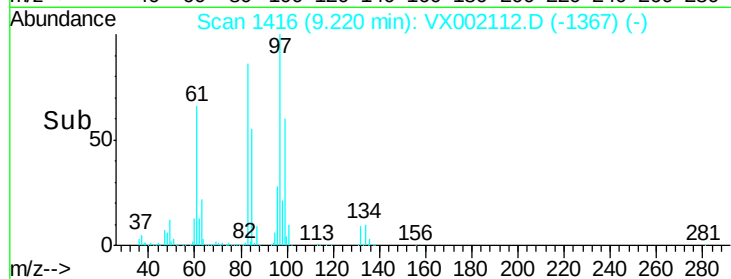
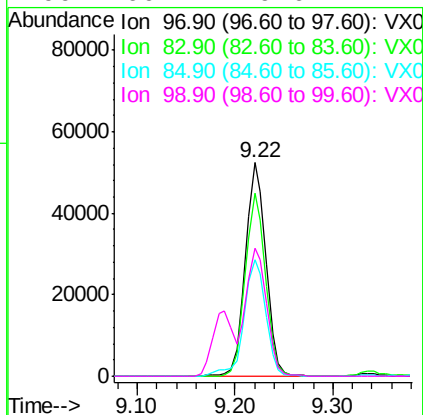
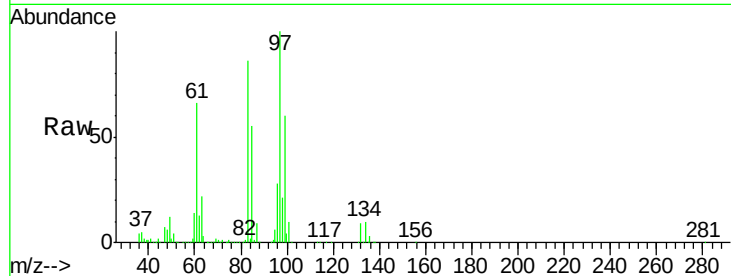
#55
 1,1,2-Trichloroethane
 Concen: 18.31 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion:	97	Resp:	76718
Ion	Ratio	Lower	Upper
97	100		
83	85.9	69.1	103.7
85	54.7	45.2	67.8
99	60.1	49.6	74.4

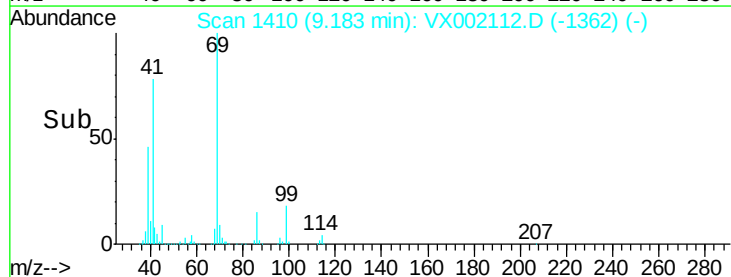
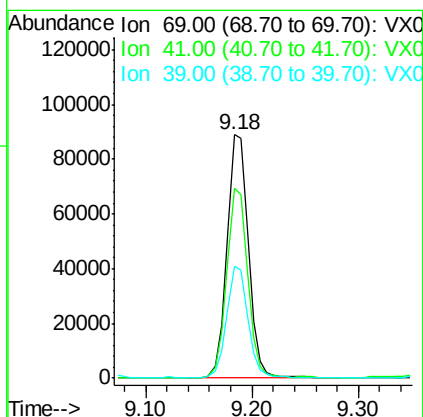
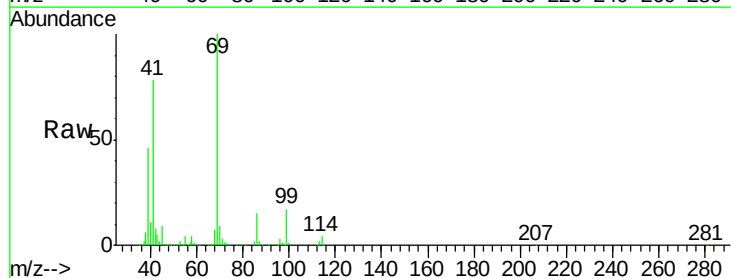
Manual Integrations
 APPROVED

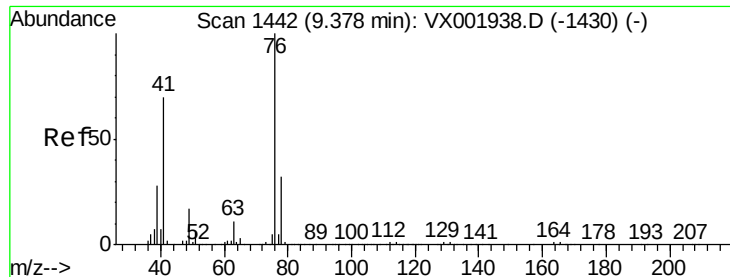
MMDadoda
 5/30/2018 1:51:02 PM



#56
 Ethyl methacrylate
 Concen: 17.52 ug/l
 RT: 9.18 min Scan# 1410
 Delta R.T. -0.01 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion:	69	Resp:	126256
Ion	Ratio	Lower	Upper
69	100		
41	76.1	61.0	91.6
39	45.4	34.4	51.6





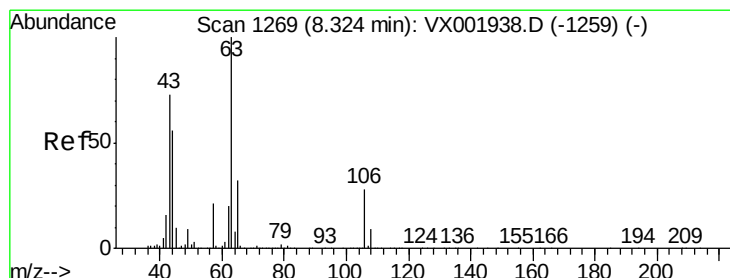
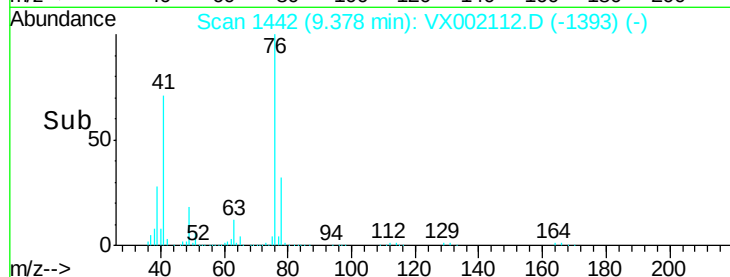
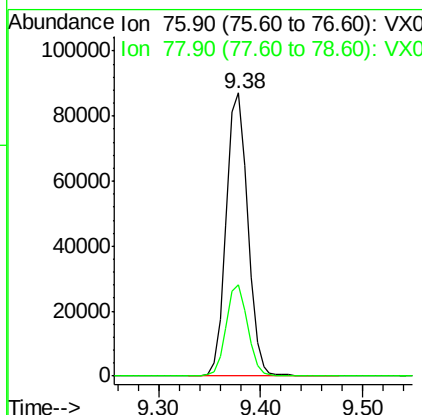
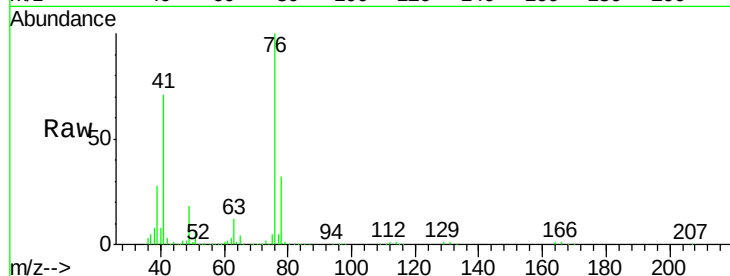
#57
 1,3-Dichloropropane
 Concen: 18.50 ug/l
 RT: 9.38 min Scan# 1442
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.6	38.4

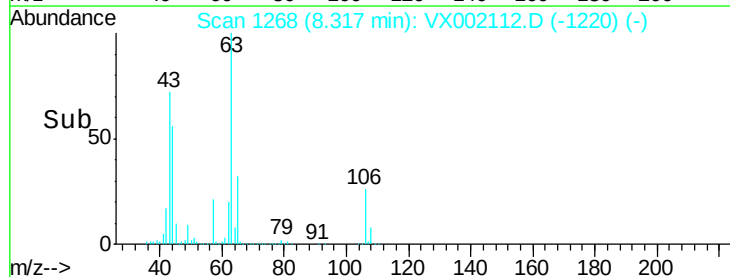
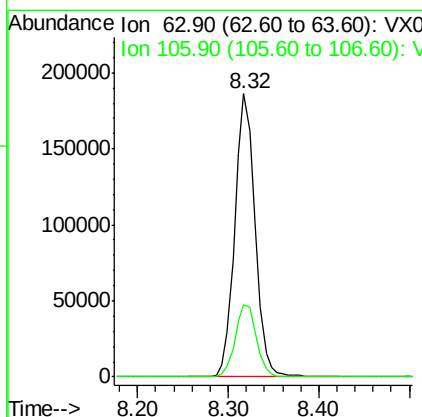
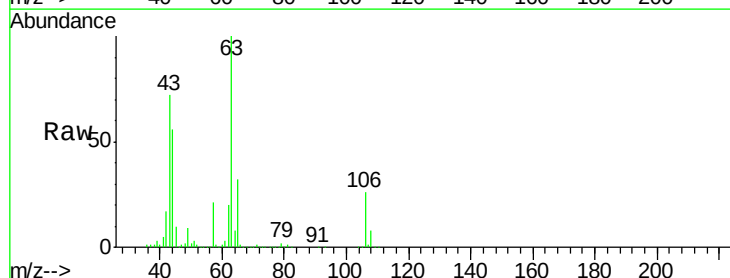
Manual Integrations
 APPROVED

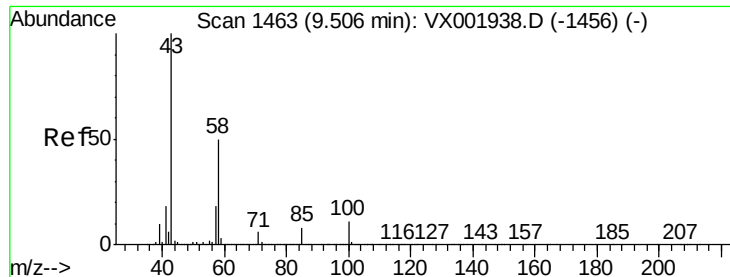
MMDadoda
 5/30/2018 1:51:02 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 90.26 ug/l
 RT: 8.32 min Scan# 1268
 Delta R.T. -0.01 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.7	32.5





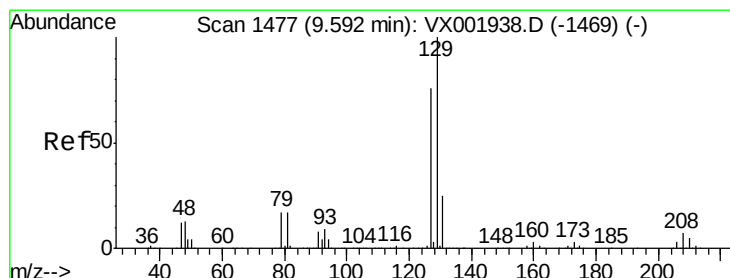
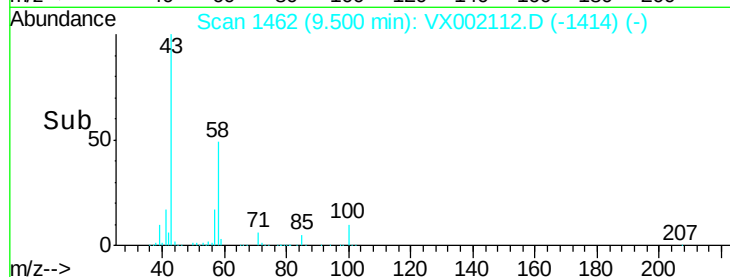
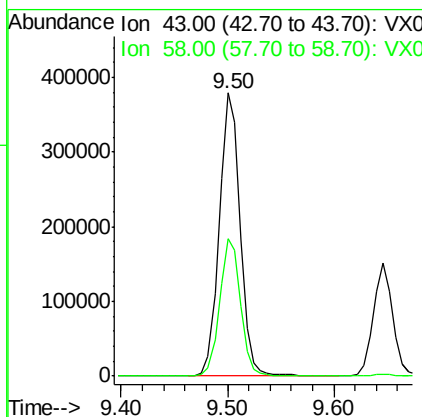
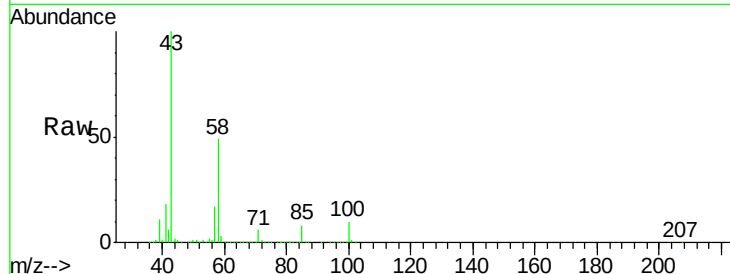
#59
2-Hexanone
Concen: 95.11 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion: 43 Resp: 516576
Ion Ratio Lower Upper
43 100
58 48.7 24.9 74.6

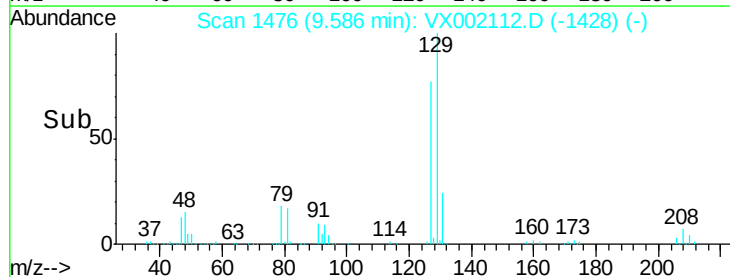
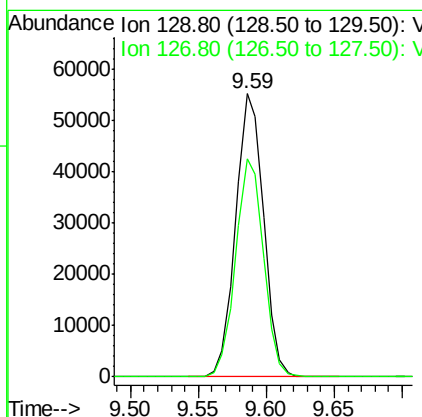
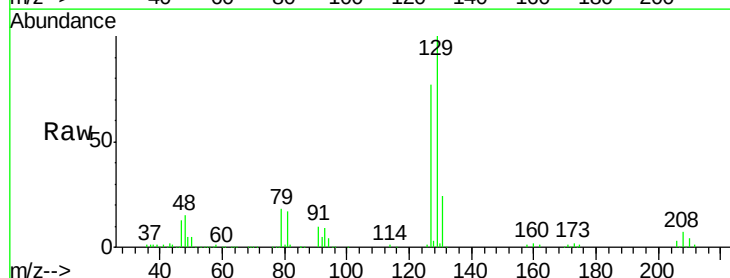
Manual Integrations
APPROVED

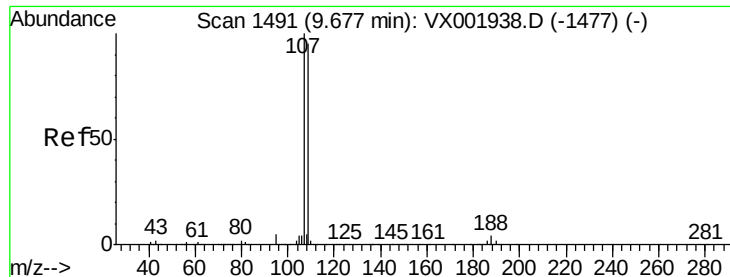
MMDadoda
5/30/2018 1:51:02 PM



#60
Dibromochloromethane
Concen: 15.92 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. -0.01 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion: 129 Resp: 79016
Ion Ratio Lower Upper
129 100
127 77.1 38.3 114.9





#61

1,2-Dibromoethane

Concen: 18.18 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion:107 Resp: 79935

Ion Ratio Lower Upper

107 100

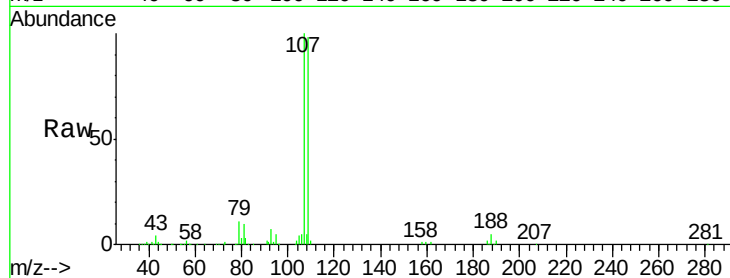
109 96.0 75.3 112.9

Manual Integrations

APPROVED

MMDadoda

5/30/2018 1:51:02 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.68

60000

50000

40000

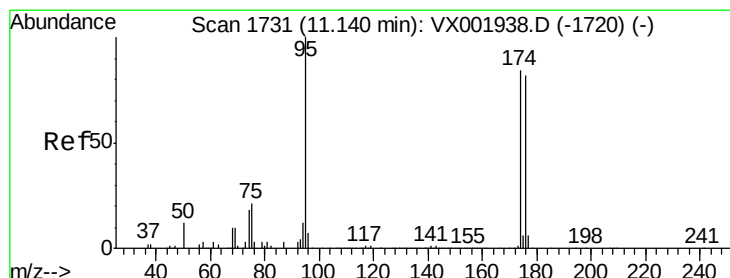
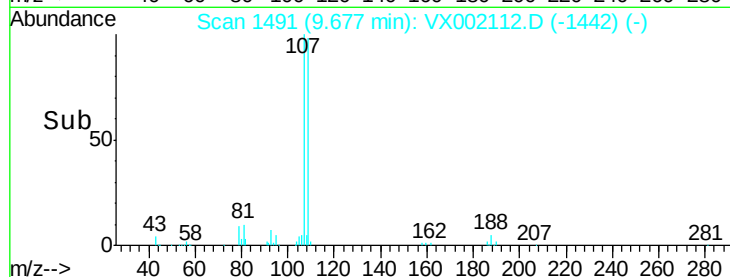
30000

20000

10000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 39.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

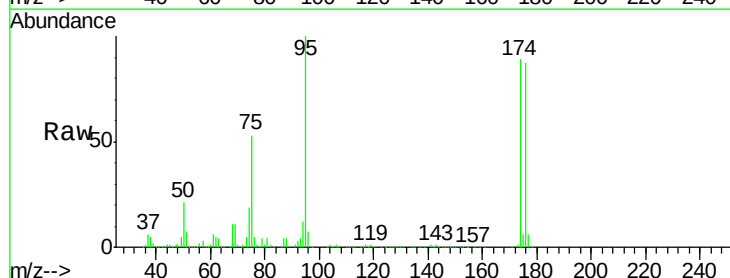
Tgt Ion: 95 Resp: 216877

Ion Ratio Lower Upper

95 100

174 91.6 0.0 178.8

176 89.4 0.0 175.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

200000

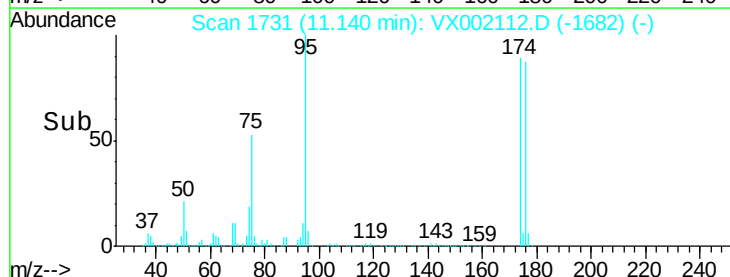
150000

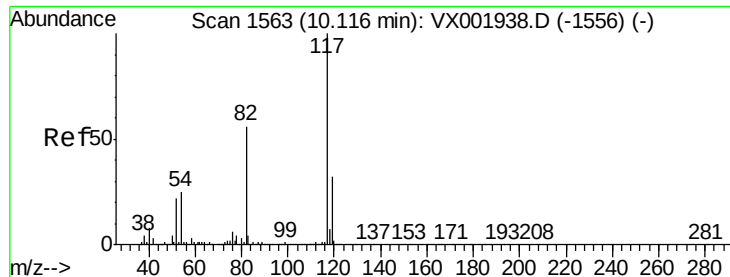
100000

50000

0

Time-->





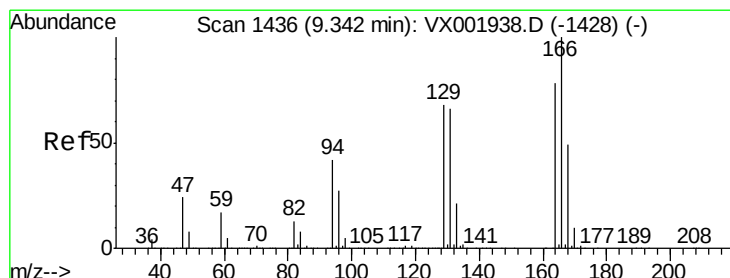
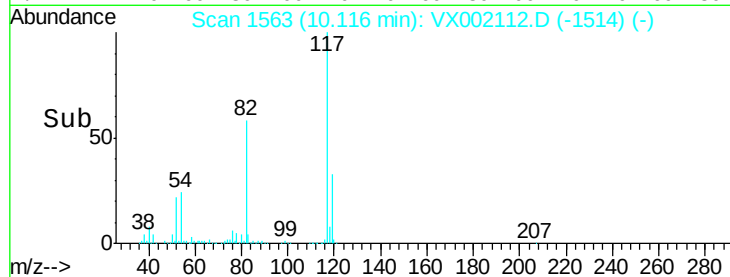
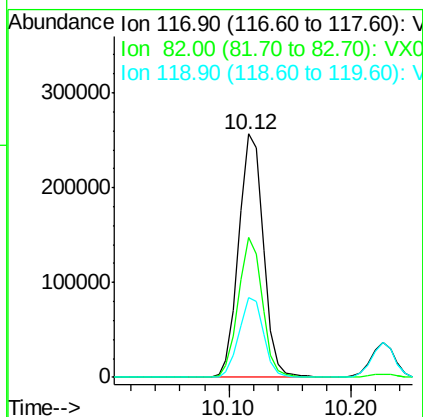
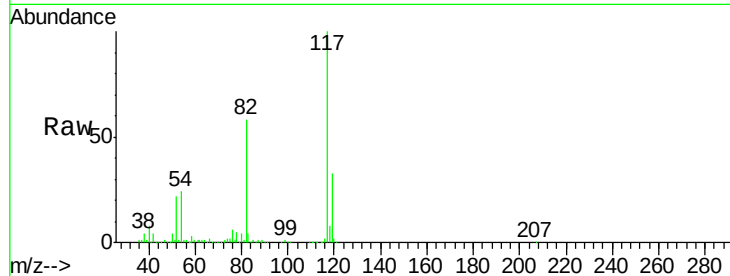
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	356915		
82	57.5		44.8	67.2
119	32.7		25.5	38.3

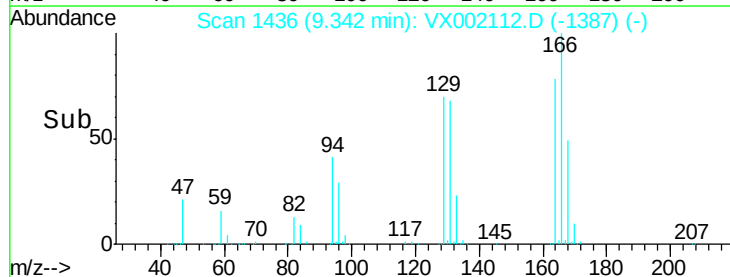
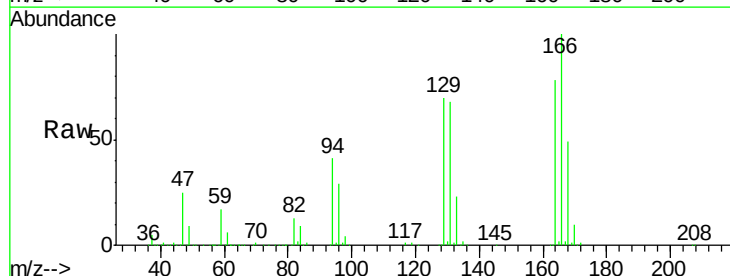
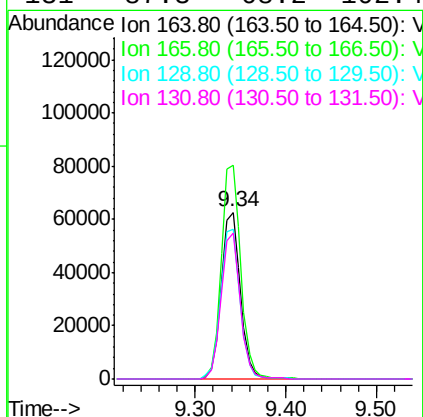
Manual Integrations
APPROVED

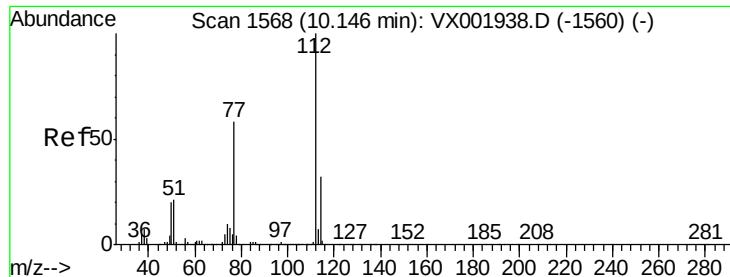
MMDadoda
5/30/2018 1:51:02 PM



#64
Tetrachloroethene
Concen: 18.13 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	92796		
166	127.9		102.7	154.1
129	89.3		70.3	105.5
131	87.3		68.2	102.4





#65

Chlorobenzene

Concen: 18.44 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion:112 Resp: 208557

Ion Ratio Lower Upper

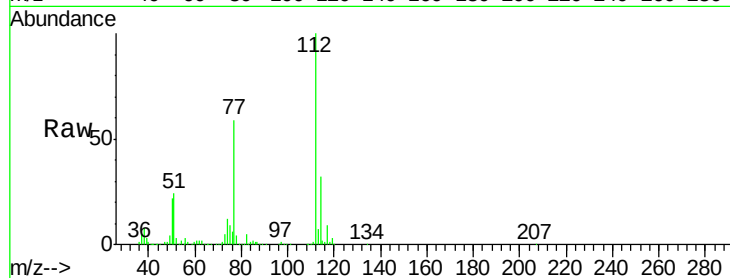
112 100

114 31.9 25.9 38.9

Manual Integrations
APPROVED

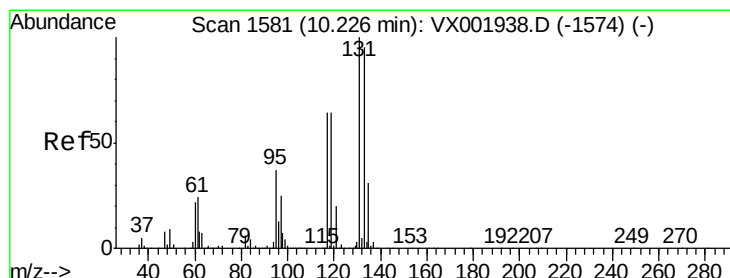
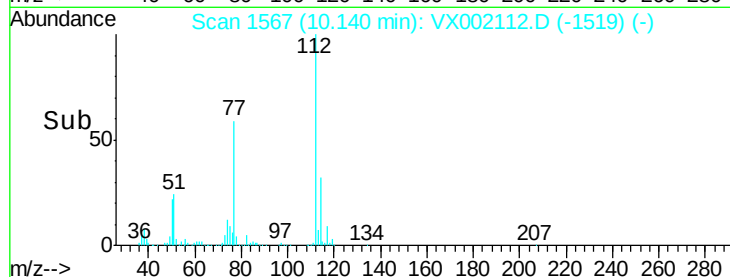
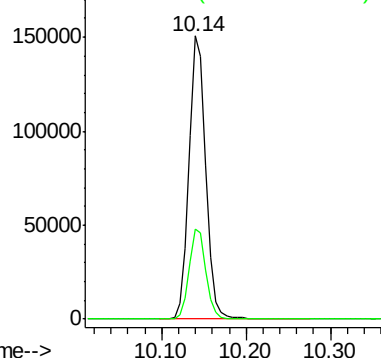
MMDadoda

5/30/2018 1:51:02 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 16.97 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

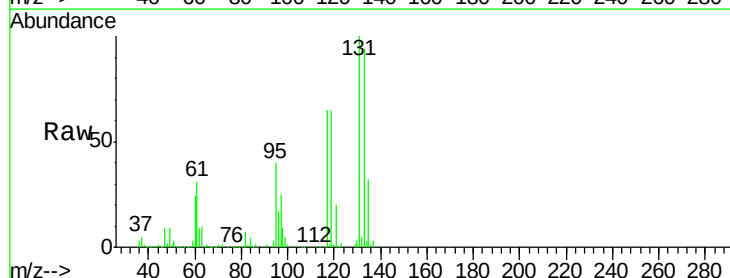
Tgt Ion:131 Resp: 77471

Ion Ratio Lower Upper

131 100

133 94.7 48.0 144.0

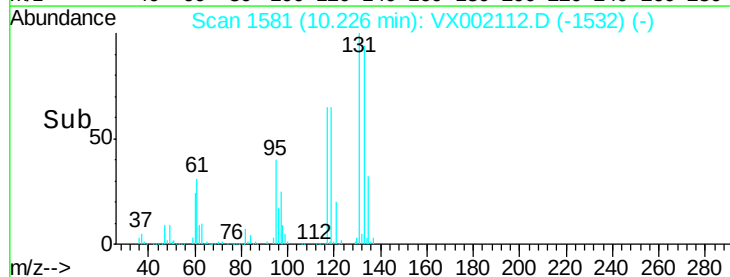
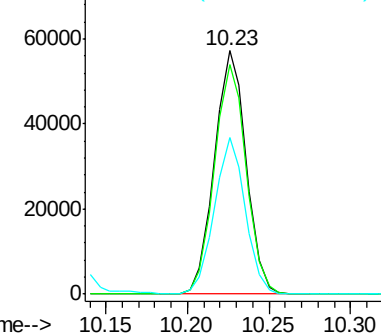
119 62.9 31.9 95.5

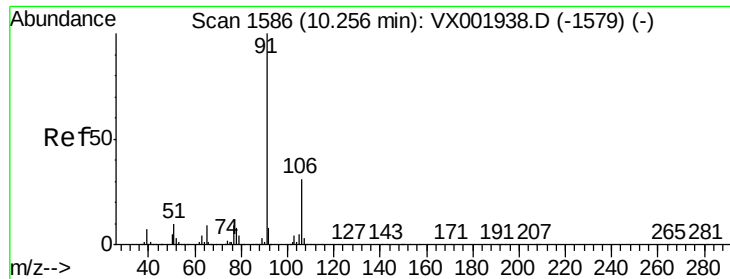


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 18.28 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion: 91 Resp: 359210

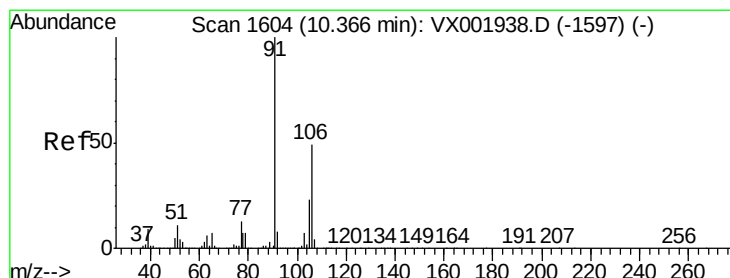
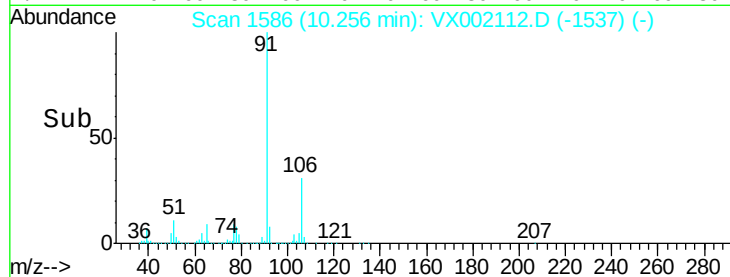
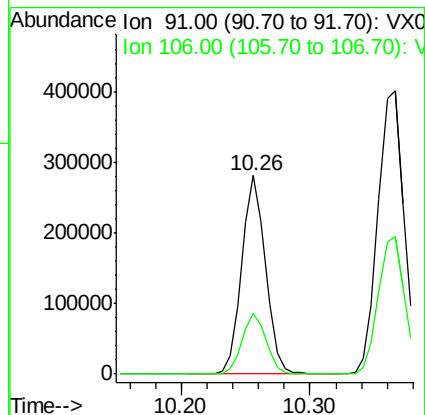
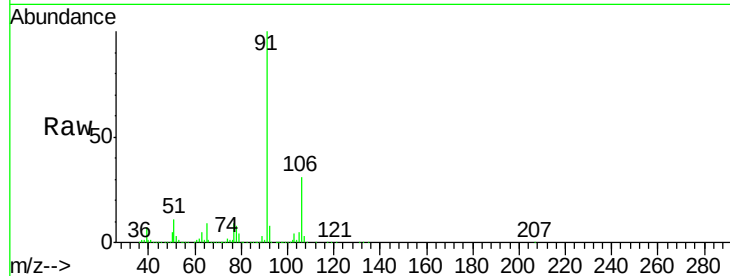
Ion Ratio Lower Upper

91 100

106 30.9 25.0 37.6

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#68

m/p-Xylenes

Concen: 36.63 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VX002112.D

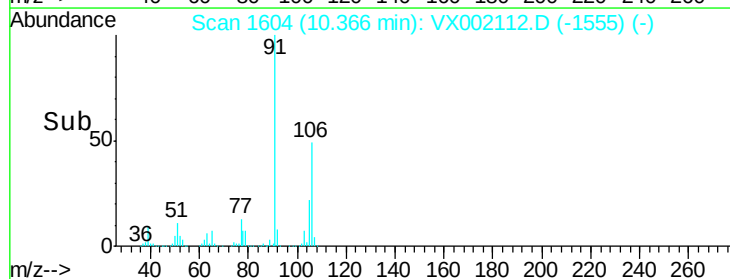
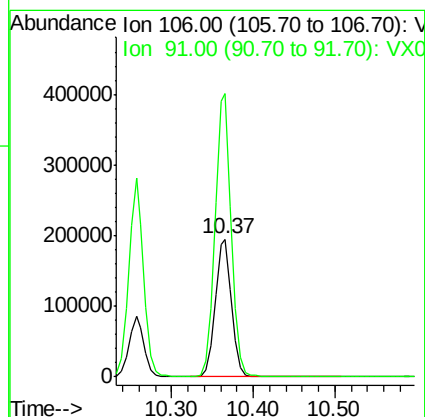
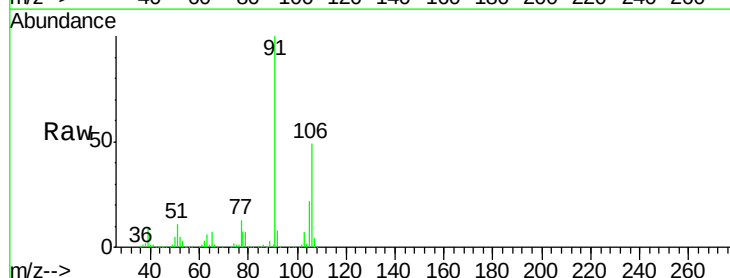
Acq: 30 May 2018 00:39

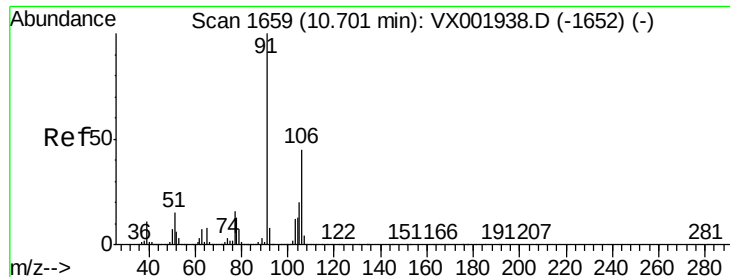
Tgt Ion: 106 Resp: 275130

Ion Ratio Lower Upper

106 100

91 205.2 165.0 247.6





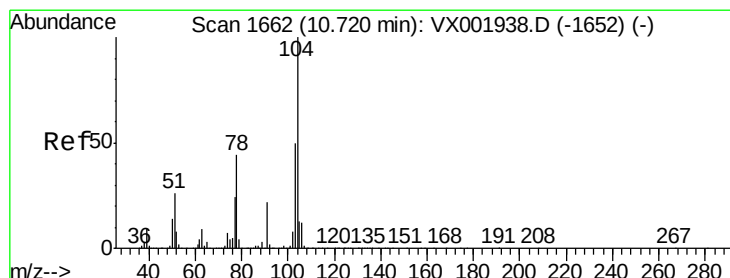
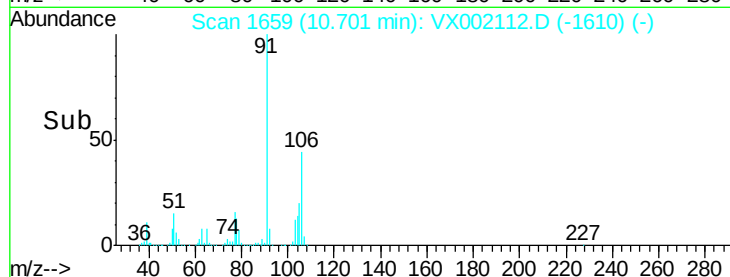
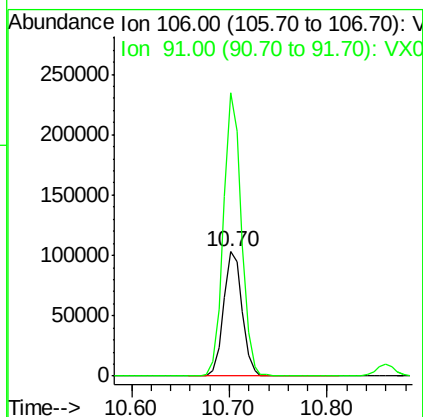
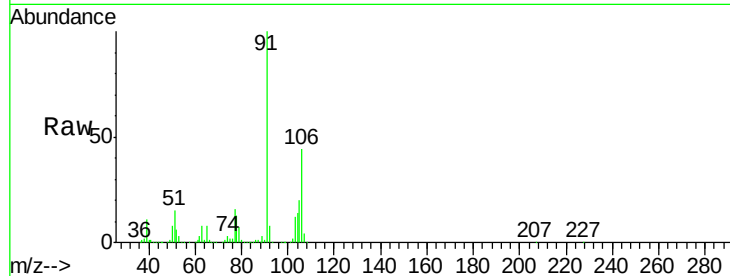
#69
o-Xylene
Concen: 18.08 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion:106 Resp: 135610
Ion Ratio Lower Upper
106 100
91 220.4 108.7 325.9

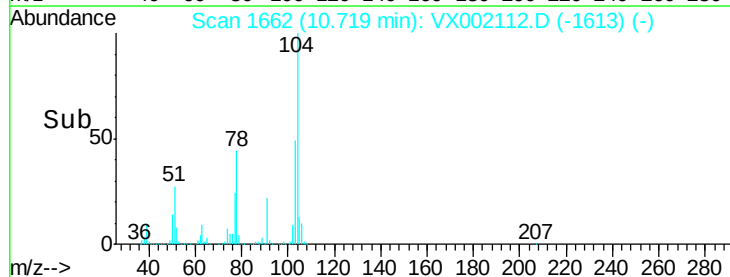
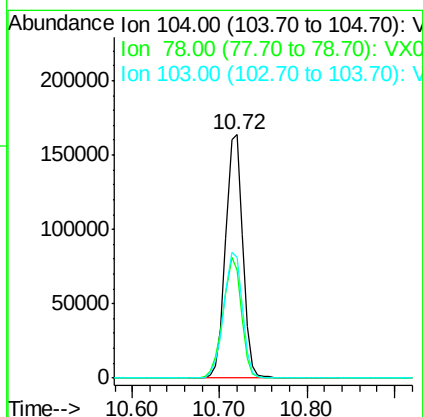
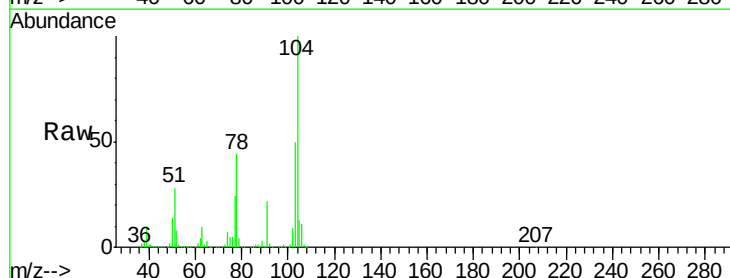
Manual Integrations
APPROVED

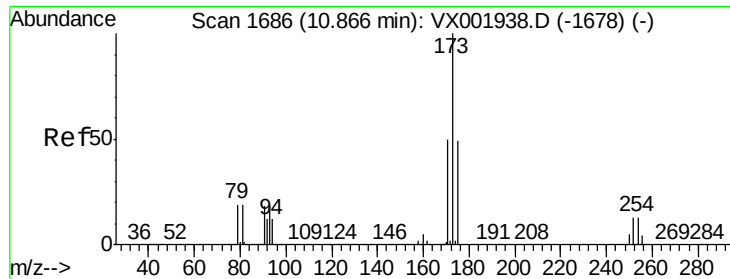
MMDadoda
5/30/2018 1:51:02 PM



#70
Styrene
Concen: 17.84 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion:104 Resp: 221807
Ion Ratio Lower Upper
104 100
78 52.7 41.8 62.6
103 56.1 44.6 67.0





#71

Bromoform

Concen: 14.34 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion:173 Resp: 62099

Ion Ratio Lower Upper

173 100

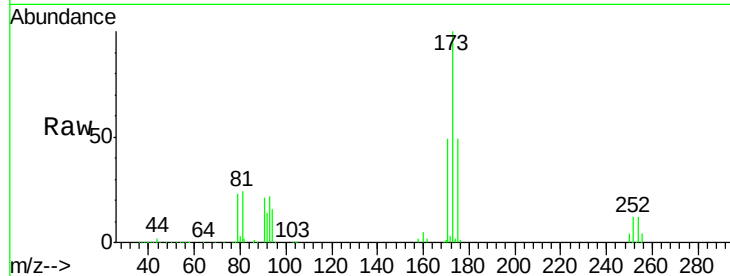
175 48.5 24.3 72.9

254 0.2 0.1 0.1#

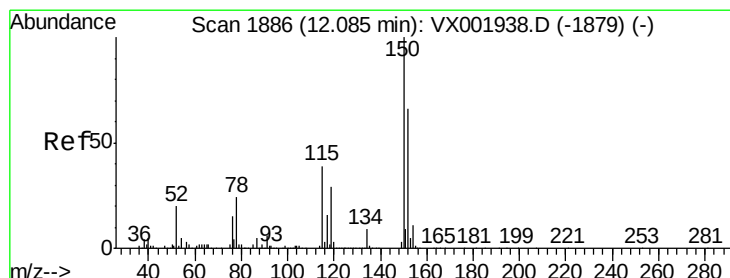
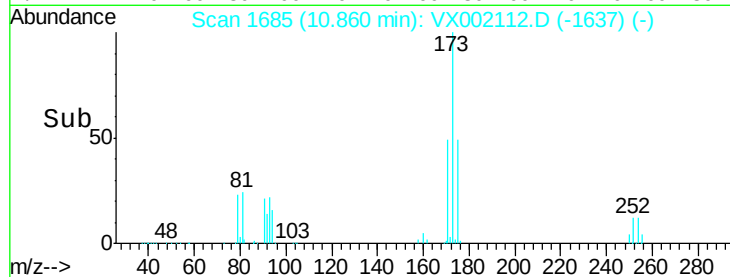
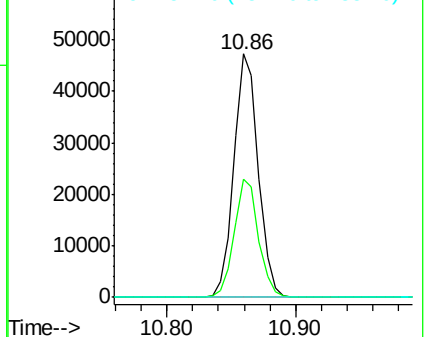
Manual Integrations
APPROVED

MMDadoda

5/30/2018 1:51:02 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

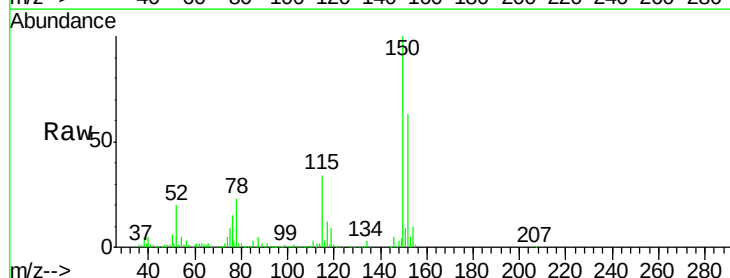
Tgt Ion:152 Resp: 235153

Ion Ratio Lower Upper

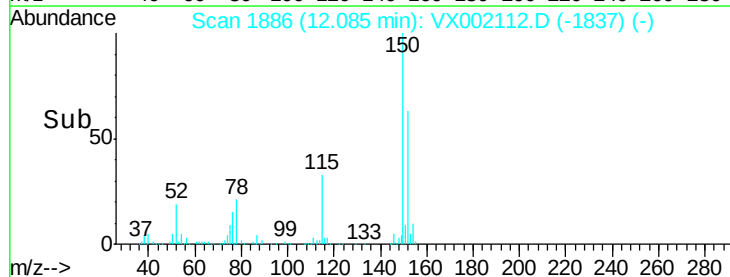
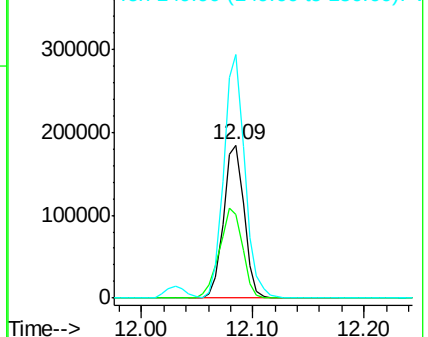
152 100

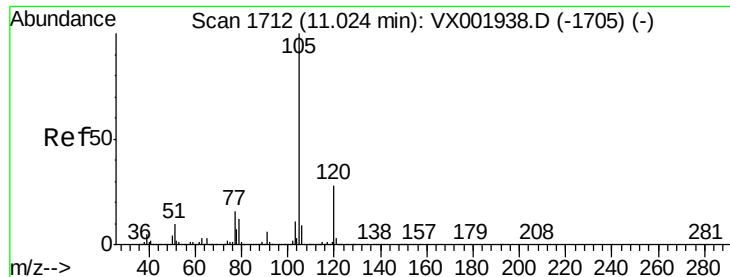
115 66.0 42.3 126.8

150 163.0 0.0 351.0



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





#73

Isopropylbenzene

Concen: 18.24 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion:105 Resp: 363165

Ion Ratio Lower Upper

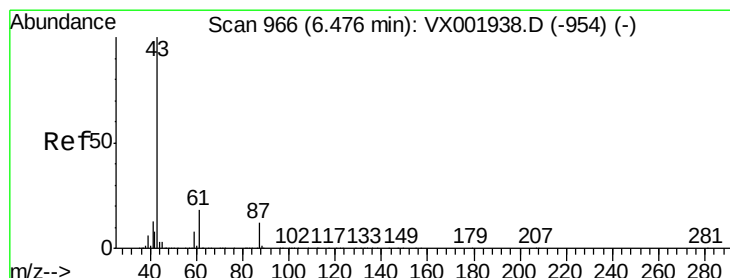
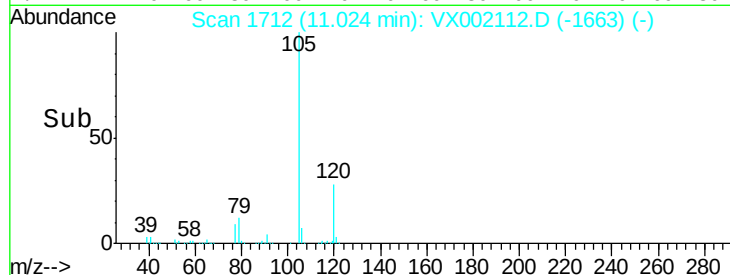
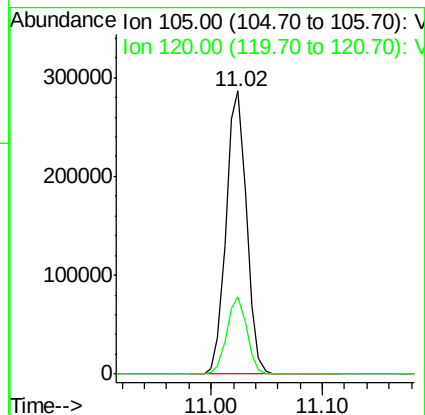
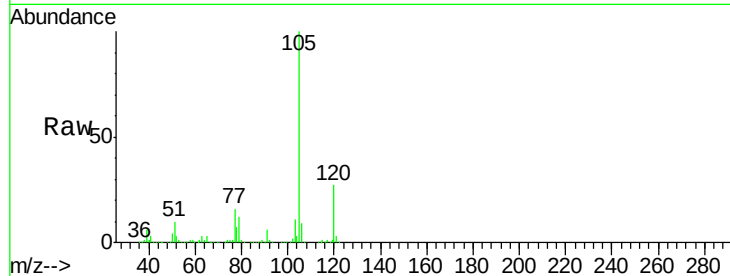
105 100

120 26.9 13.6 40.7

Manual Integrations
APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#74

N-ethyl acetate

Concen: 18.60 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion: 43 Resp: 212567

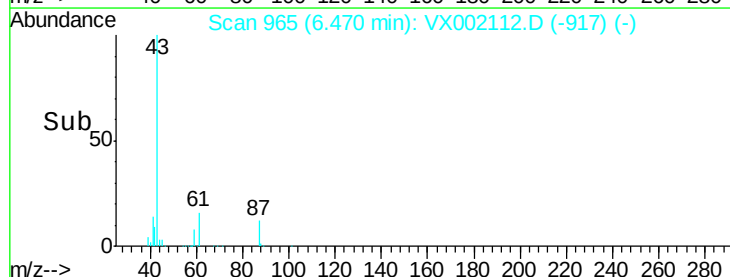
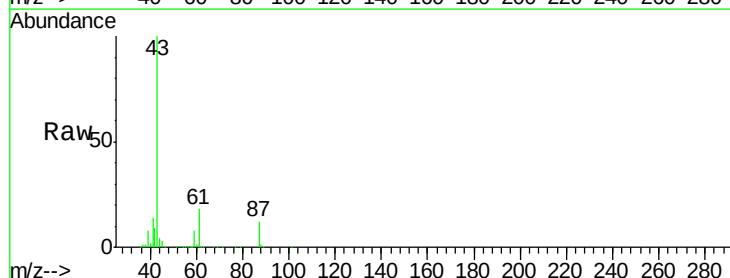
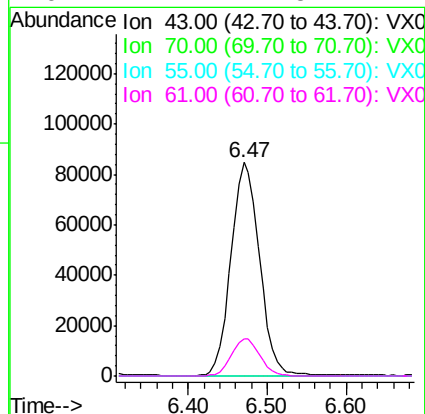
Ion Ratio Lower Upper

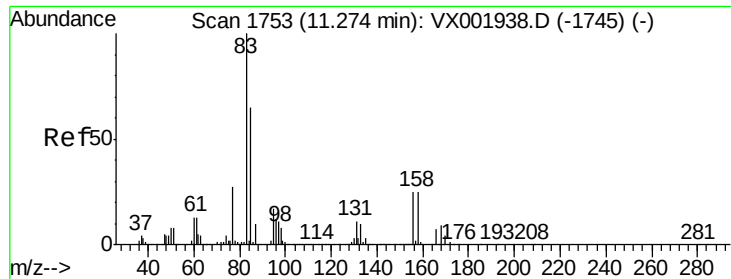
43 100

70 0.0 0.1 0.1#

55 0.1 0.1 0.1

61 17.7 14.5 21.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.32 ug/l

RT: 11.27 min Scan# 1753

Delta R.T. 0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

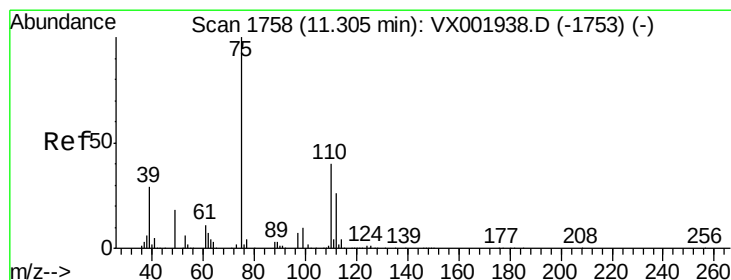
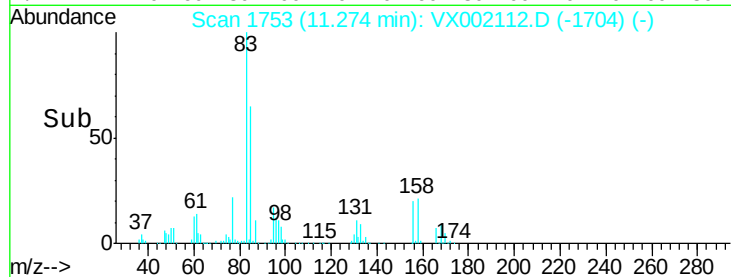
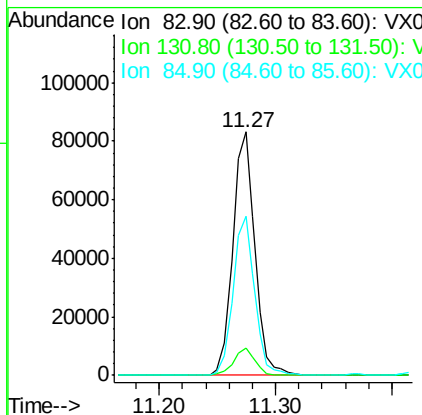
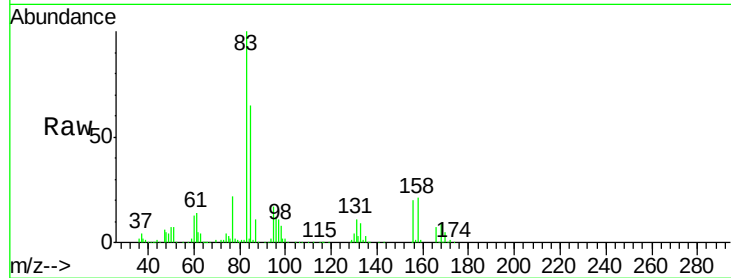
ClientSampleId :

VX0529WBSD02

Tot Ion:	83	Resp:	109459
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.7	17.0
85	64.4	32.6	97.7

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#76

1,2,3-Trichloropropane

Concen: 20.72 ug/l m

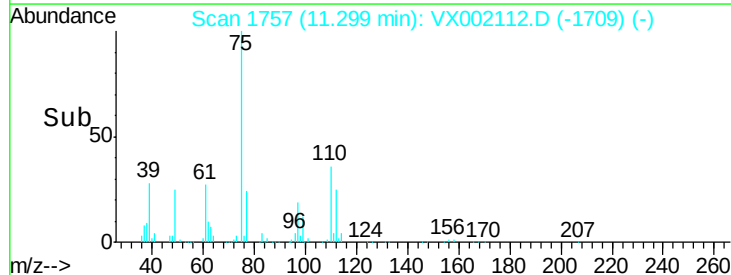
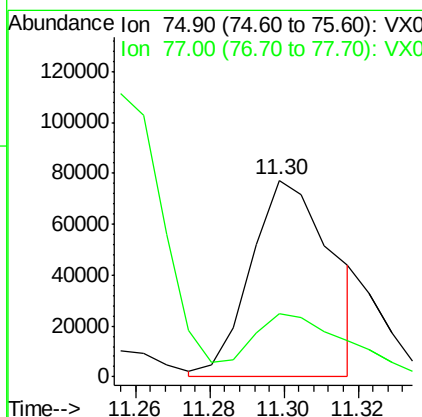
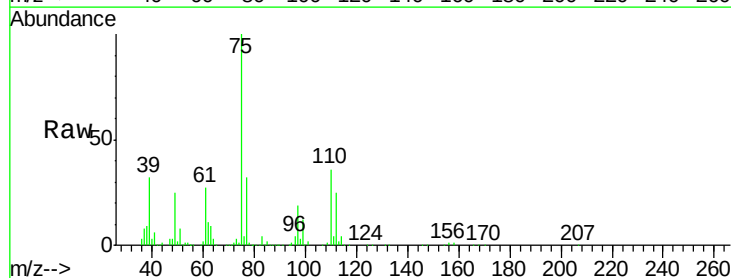
RT: 11.30 min Scan# 1757

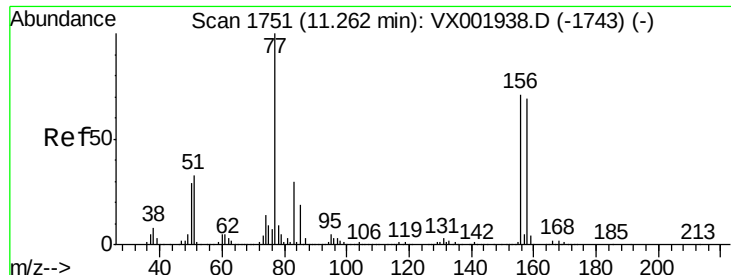
Delta R.T. -0.01 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	75	Resp:	117027
Ion Ratio	Lower	Upper	
75	100		
77	38.3	22.8	68.3





#77

Bromobenzene

Concen: 18.05 ug/l

RT: 11.26 min Scan# 1751

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion:156 Resp: 95376

Ion Ratio Lower Upper

156 100

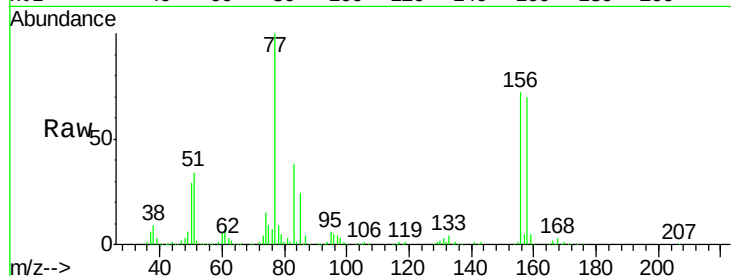
77 151.3 75.2 225.6

158 98.0 48.6 145.8

Manual Integrations
APPROVED

MMDadoda

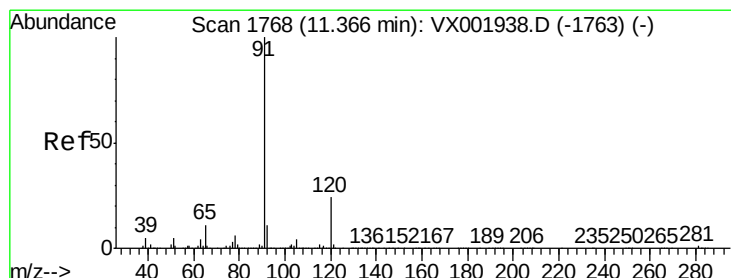
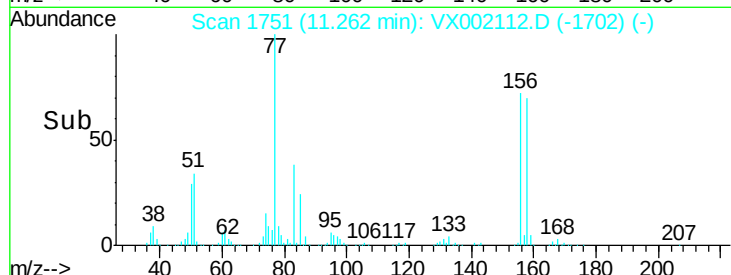
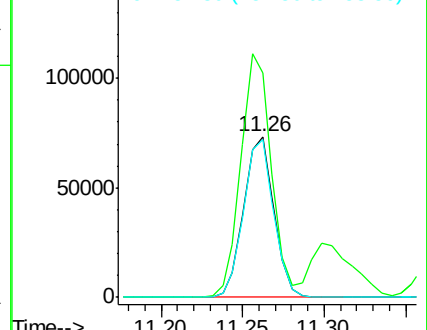
5/30/2018 1:51:02 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.19 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VX002112.D

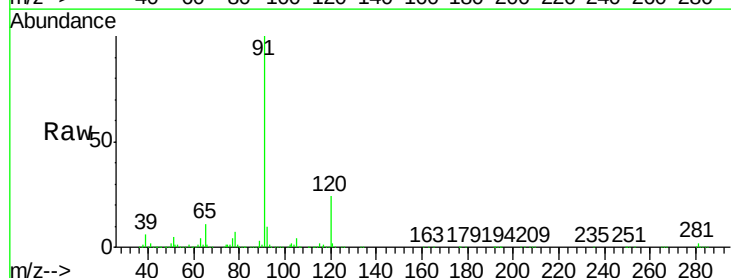
Acq: 30 May 2018 00:39

Tgt Ion: 91 Resp: 405757

Ion Ratio Lower Upper

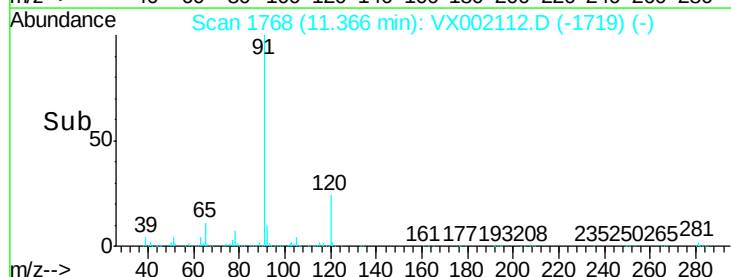
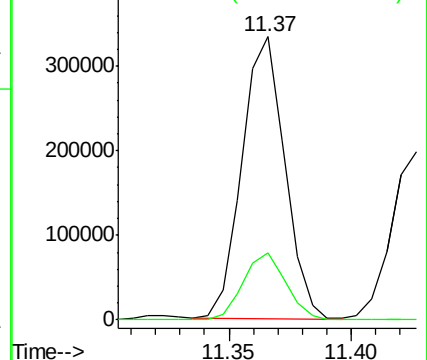
91 100

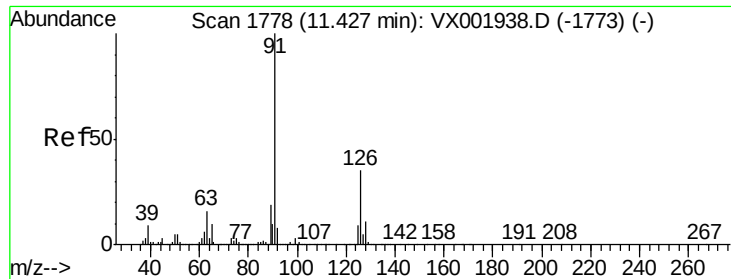
120 23.7 11.9 35.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





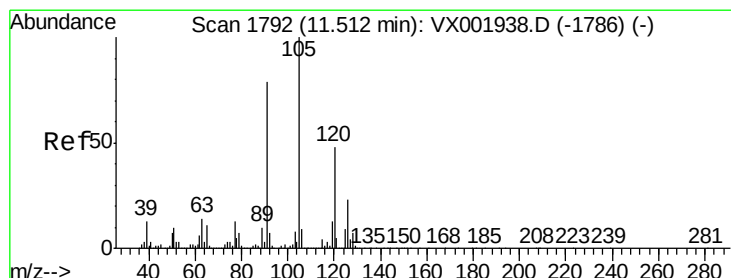
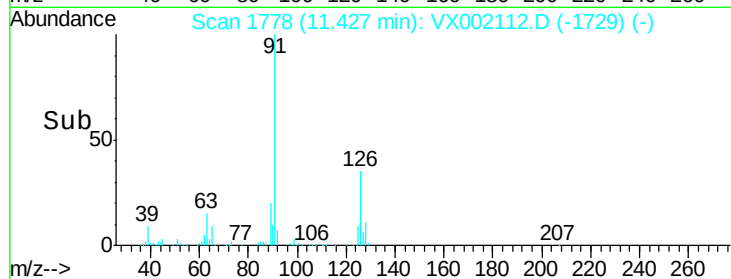
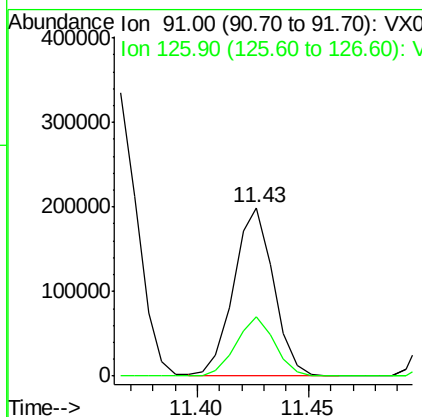
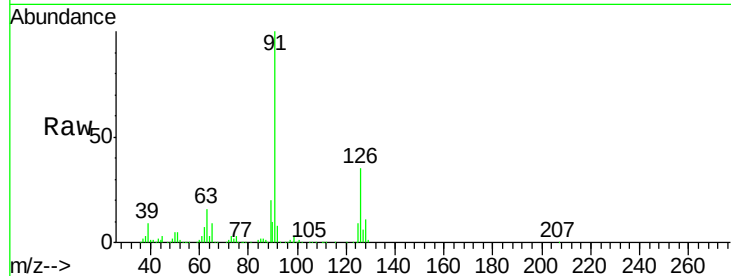
#79
2-Chlorotoluene
Concen: 18.68 ug/l
RT: 11.43 min Scan# 1778
Delta R.T. 0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion: 91 Resp: 246169
Ion Ratio Lower Upper
91 100
126 34.7 17.4 52.2

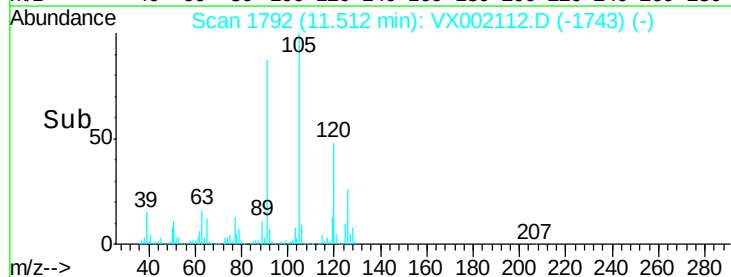
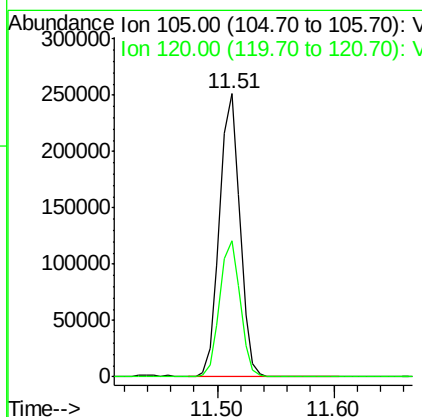
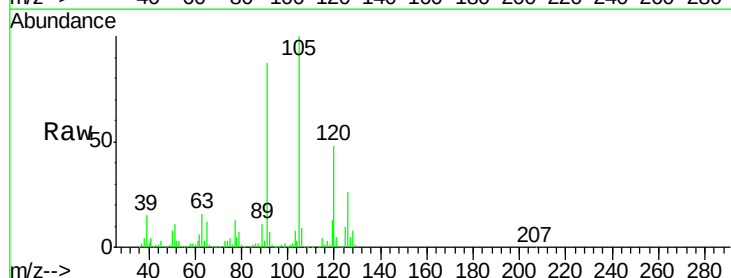
Manual Integrations
APPROVED

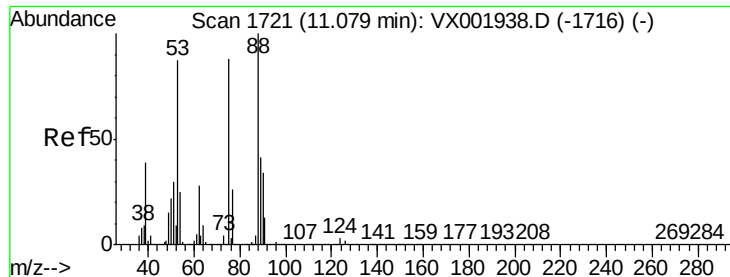
MMDadoda
5/30/2018 1:51:02 PM



#80
1,3,5-Trimethylbenzene
Concen: 17.87 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion: 105 Resp: 304025
Ion Ratio Lower Upper
105 100
120 48.2 24.1 72.4





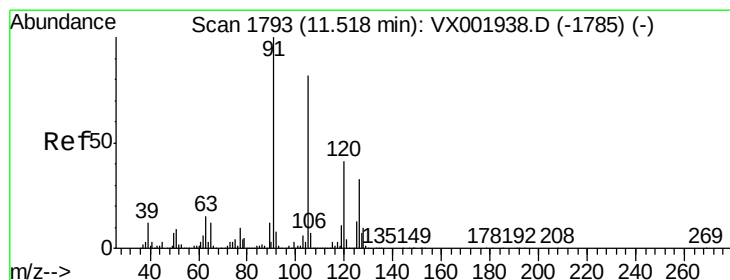
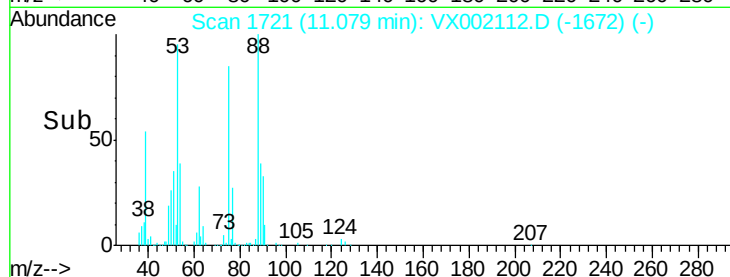
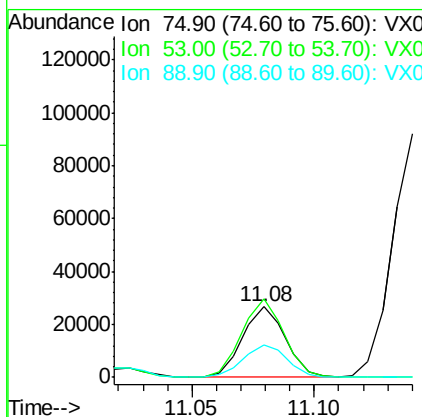
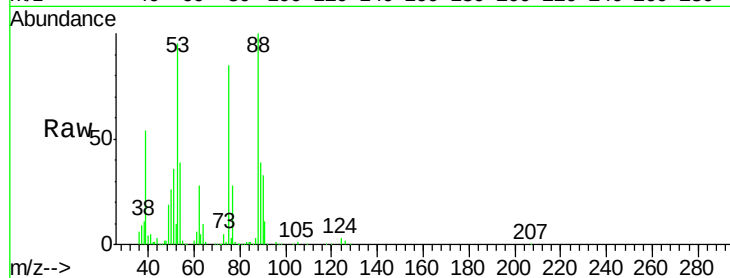
#81
trans-1,4-Dichloro-2-butene
Concen: 13.64 ug/l
RT: 11.08 min Scan# 1721
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	111.6	78.0	117.0
89	47.7	39.4	59.2

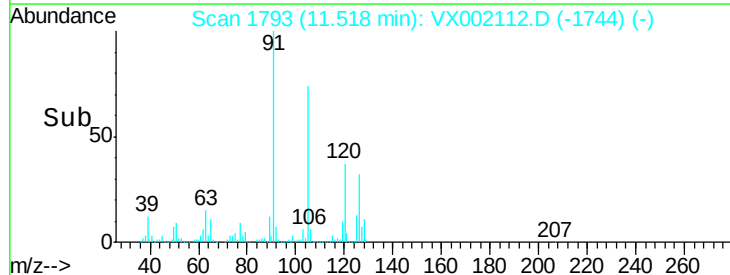
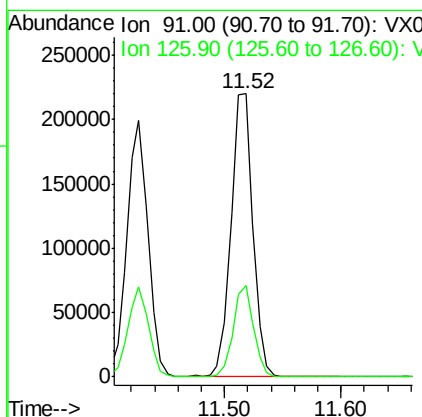
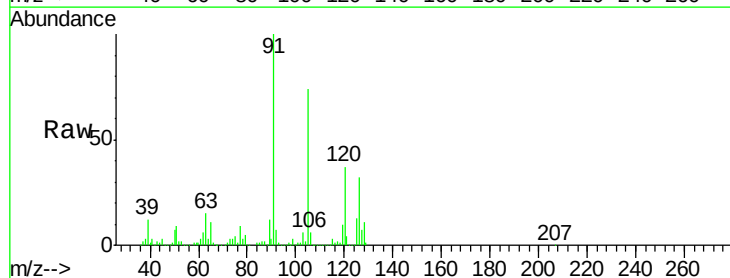
Manual Integrations
APPROVED

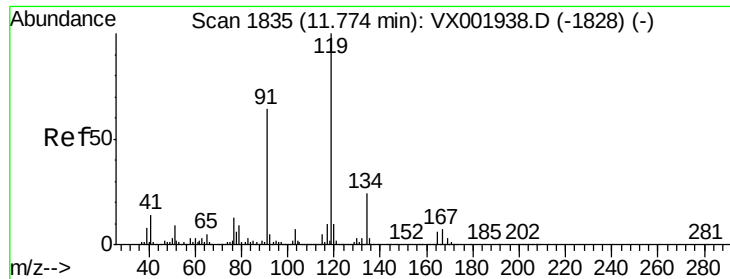
MMDadoda
5/30/2018 1:51:02 PM



#82
4-Chlorotoluene
Concen: 18.32 ug/l
RT: 11.52 min Scan# 1793
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.2	15.3	45.8





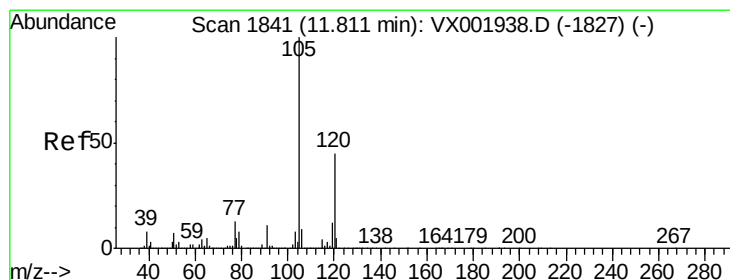
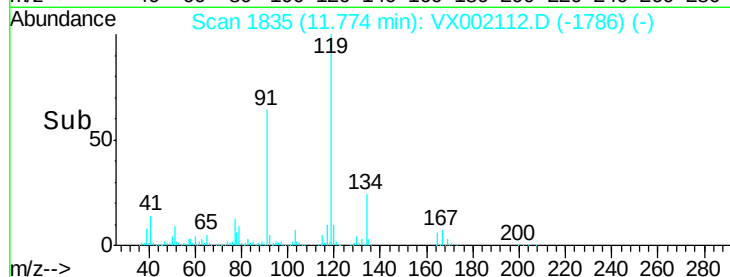
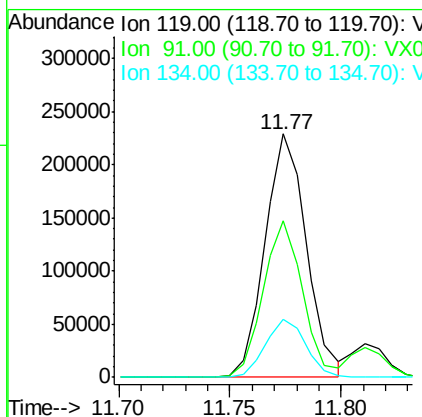
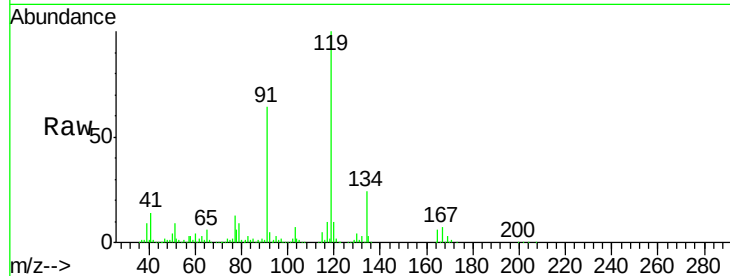
#83
 tert-Butylbenzene
 Concen: 17.66 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	294937		
91	61.8	30.6	91.8	
134	23.6	11.7	35.0	

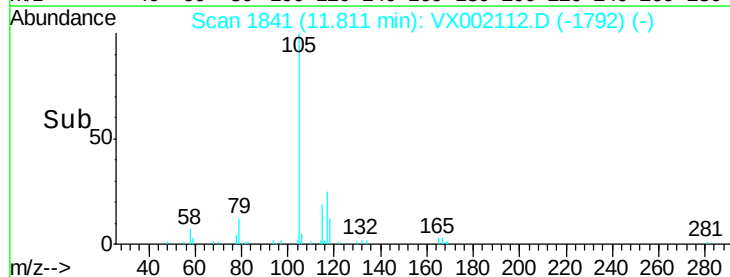
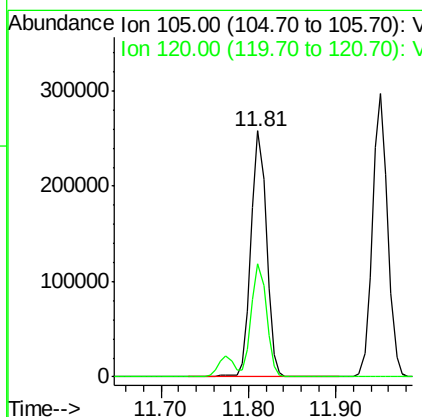
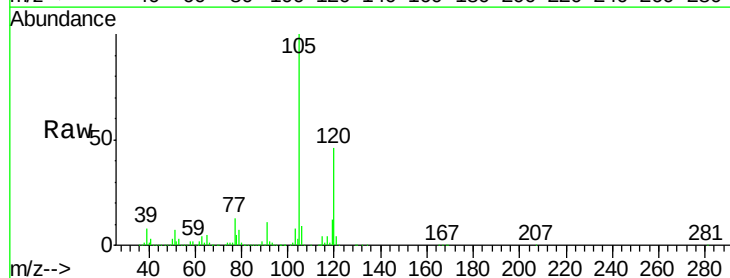
Manual Integrations
 APPROVED

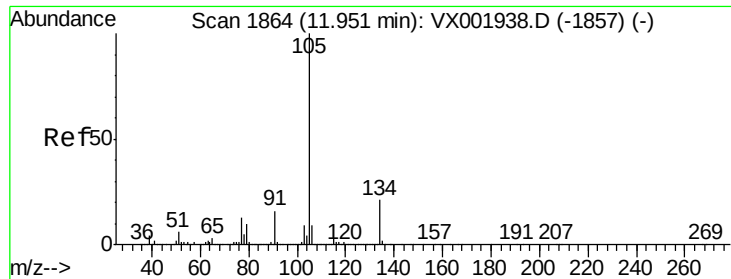
MMDadoda
 5/30/2018 1:51:02 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 17.84 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	313803		
120	45.5	22.1	66.5	





#85

sec-Butylbenzene

Concen: 18.15 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

ClientSampleId :

VX0529WBSD02

Tot Ion:105 Resp: 364368

Ion Ratio Lower Upper

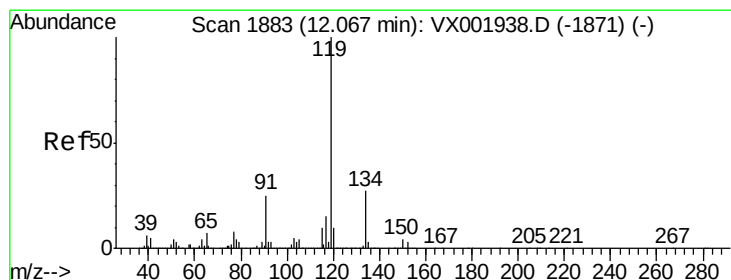
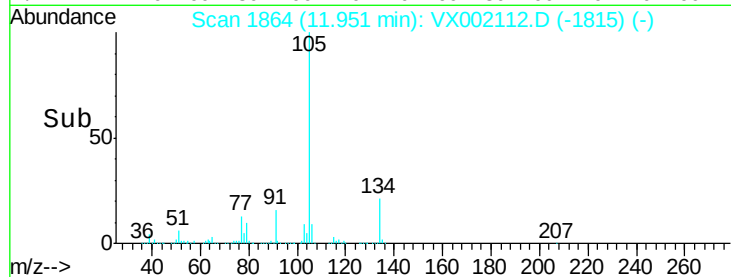
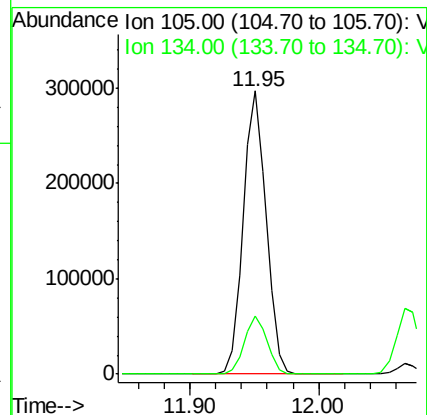
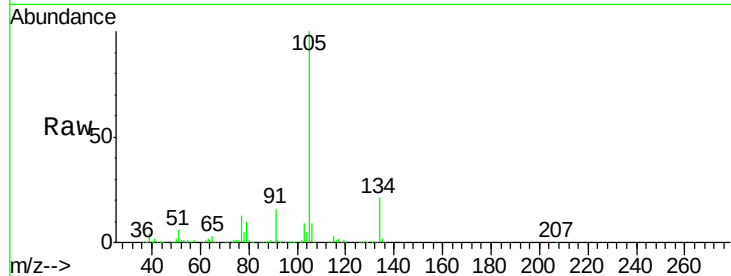
105 100

134 20.5 10.4 31.4

Manual Integrations
APPROVED

MMDadoda

5/30/2018 1:51:02 PM



#86

p-Isopropyltoluene

Concen: 18.03 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

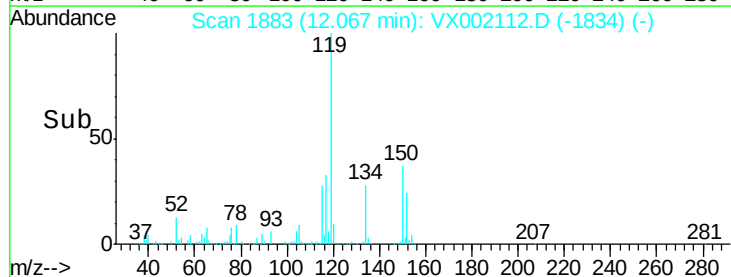
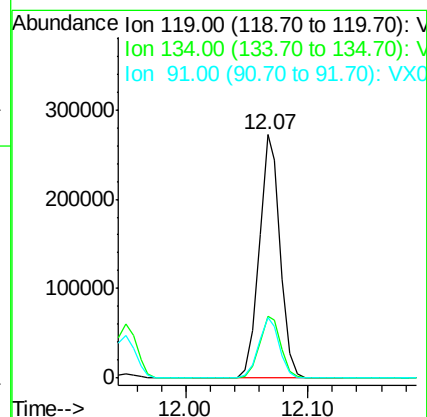
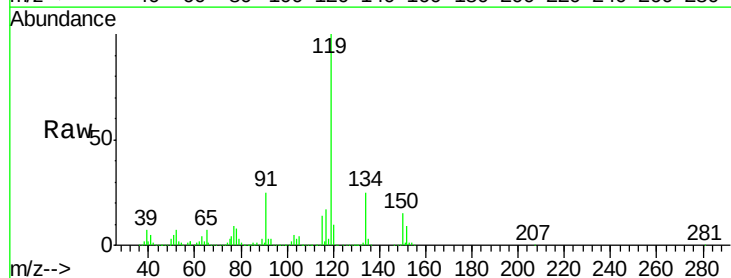
Tgt Ion:119 Resp: 323799

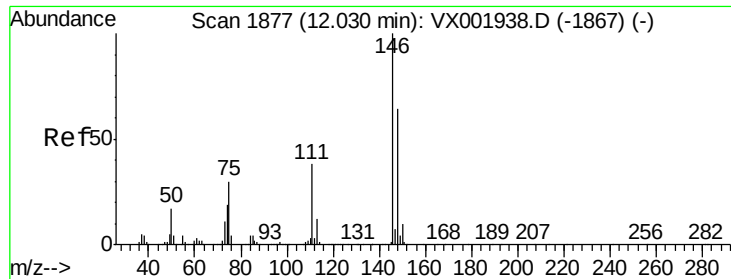
Ion Ratio Lower Upper

119 100

134 26.4 13.6 40.8

91 24.8 12.2 36.4





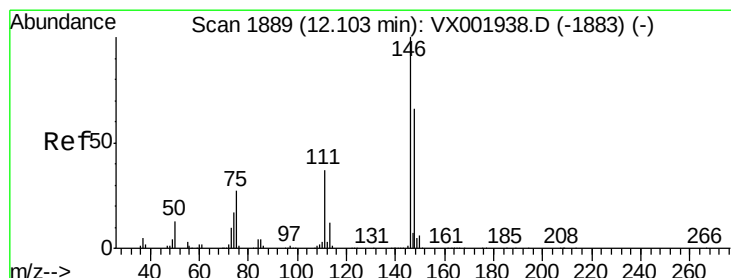
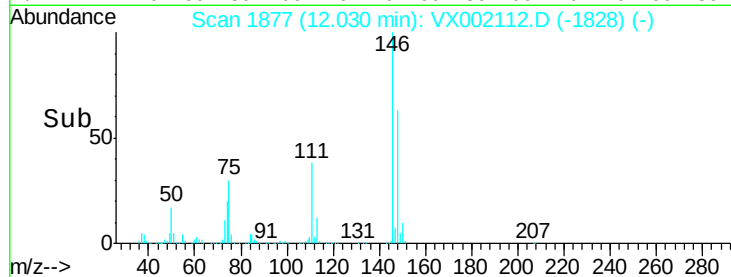
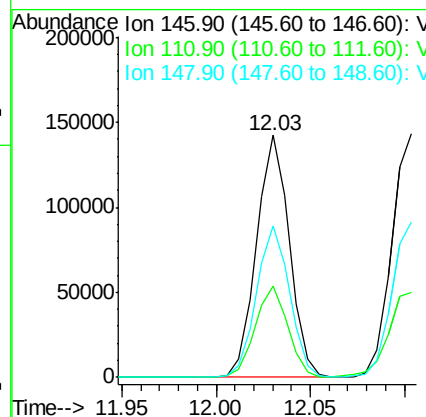
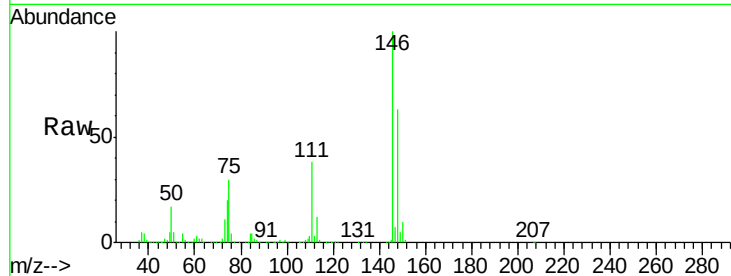
#87
 1,3-Dichlorobenzene
 Concen: 18.21 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.3	57.8
148	63.2	32.1	96.3

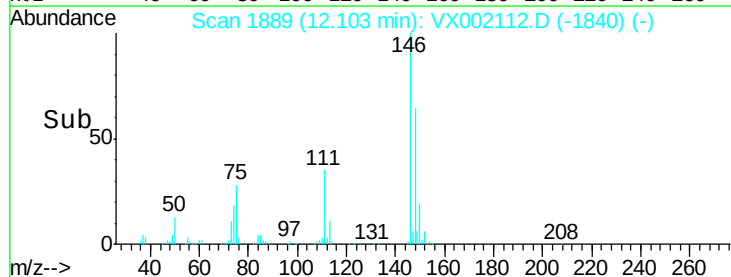
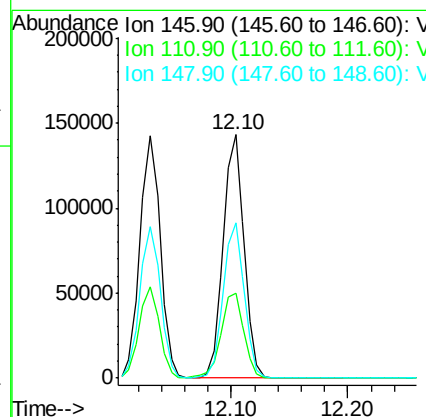
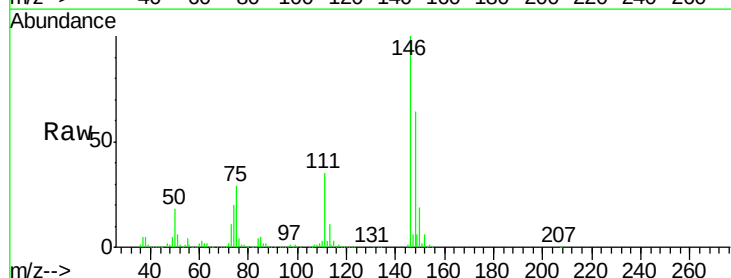
Manual Integrations
 APPROVED

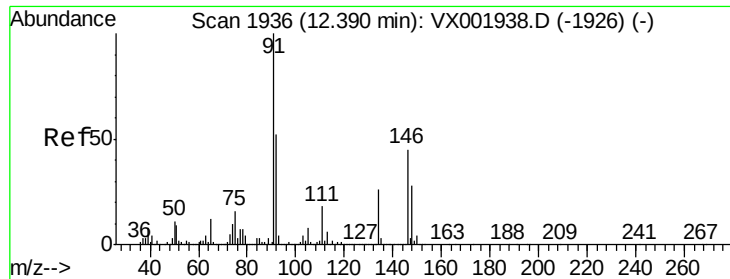
MMDadoda
 5/30/2018 1:51:02 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.59 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.9	56.5
148	64.3	32.3	96.8





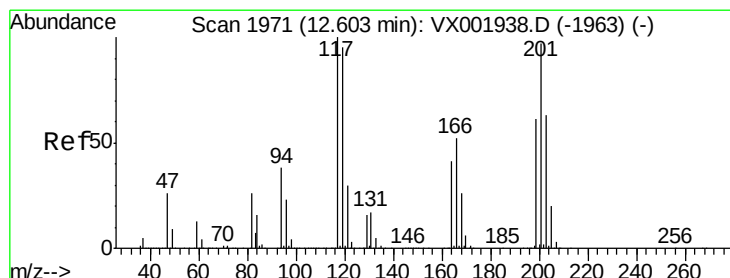
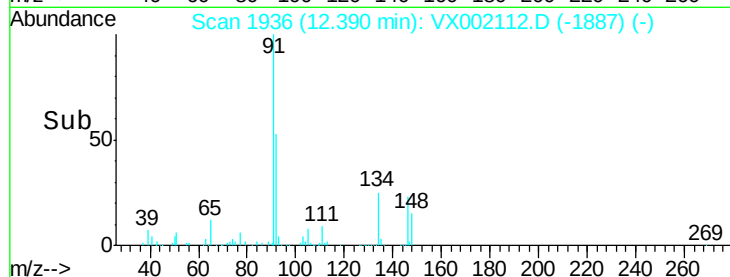
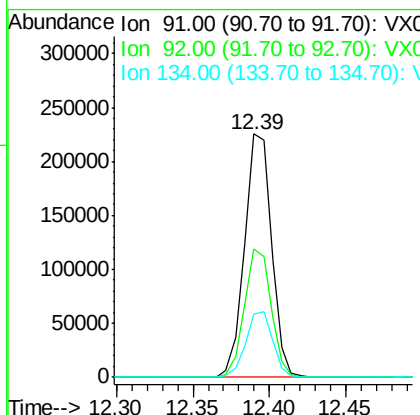
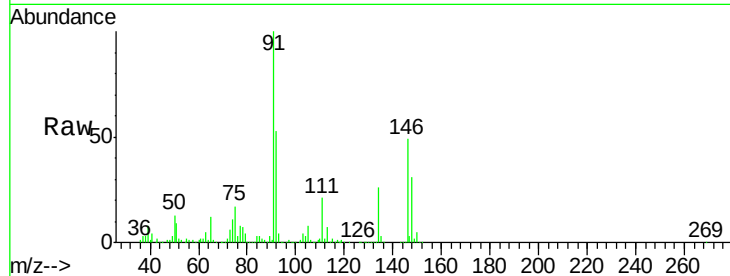
#89
n-Butylbenzene
Concen: 18.10 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Instrument :
MSVOA_X
ClientSampleId :
VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.3	78.9
134	27.1	13.6	40.7

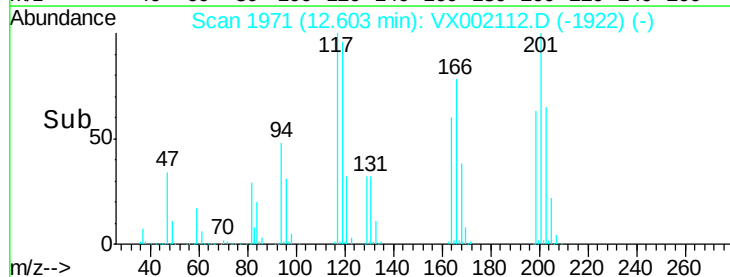
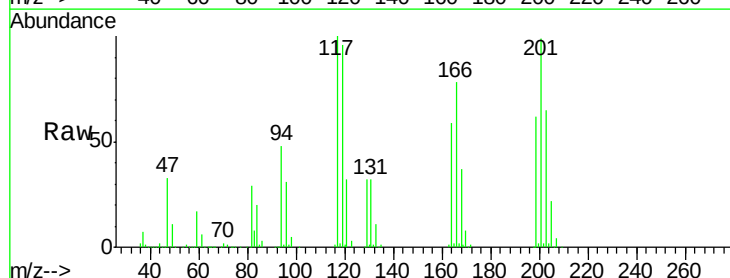
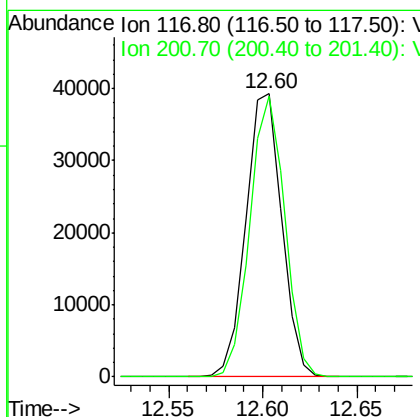
Manual Integrations
APPROVED

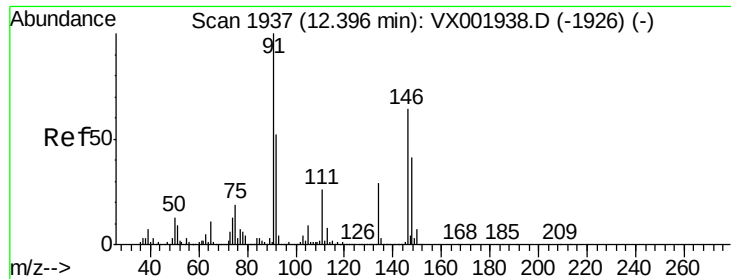
MMDadoda
5/30/2018 1:51:02 PM



#90
Hexachloroethane
Concen: 14.63 ug/l
RT: 12.60 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VX002112.D
Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.3	48.0	144.0





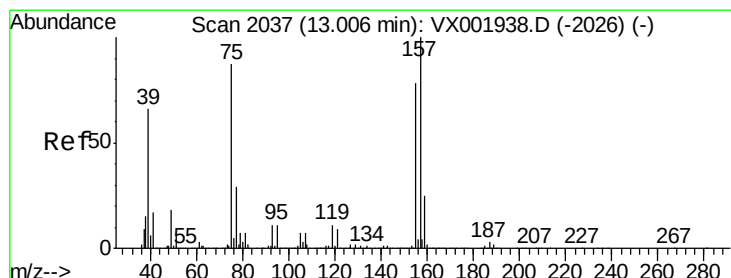
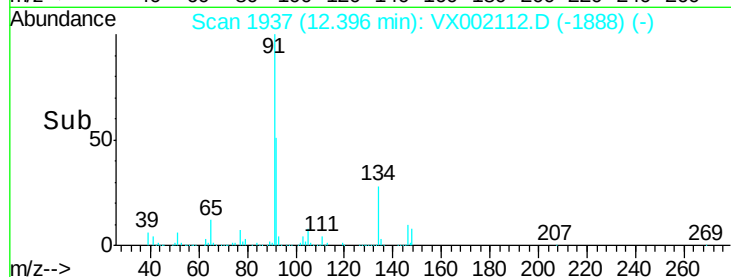
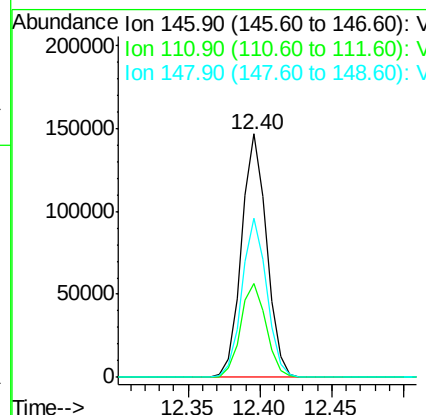
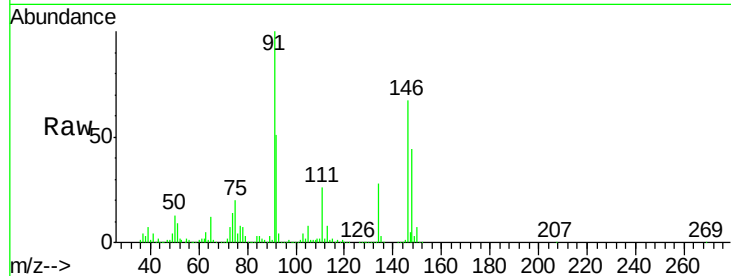
#91
 1,2-Dichlorobenzene
 Concen: 18.49 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0529WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.8	59.3
148	64.5	32.1	96.5

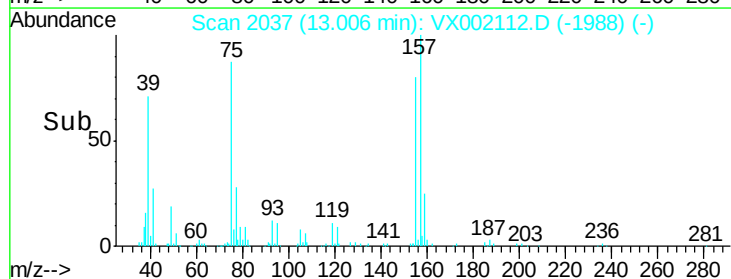
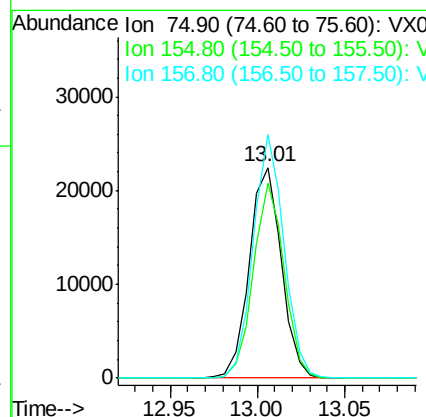
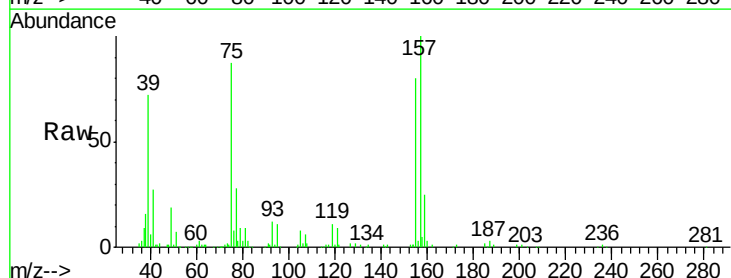
Manual Integrations
 APPROVED

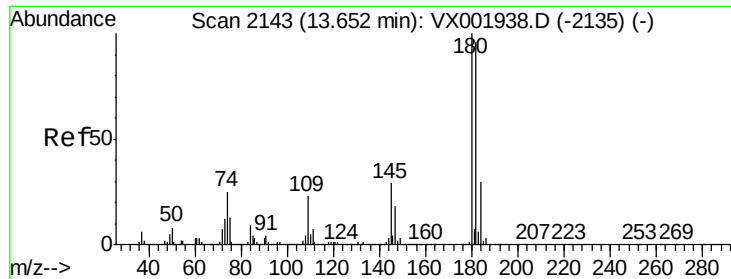
MMDadoda
 5/30/2018 1:51:02 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.16 ug/l
 RT: 13.01 min Scan# 2037
 Delta R.T. -0.00 min
 Lab File: VX002112.D
 Acq: 30 May 2018 00:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.9	45.1	135.2
157	110.6	58.1	174.2





#93

1,2,4-Trichlorobenzene

Concen: 18.43 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

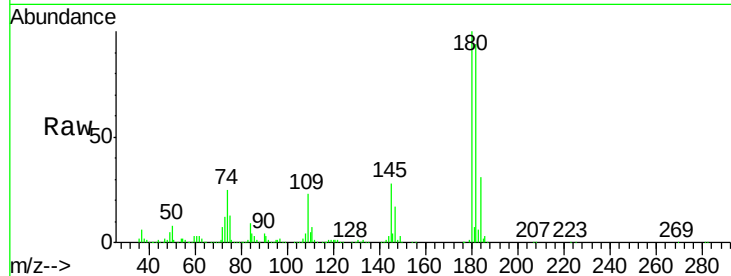
ClientSampleId :

VX0529WBSD02

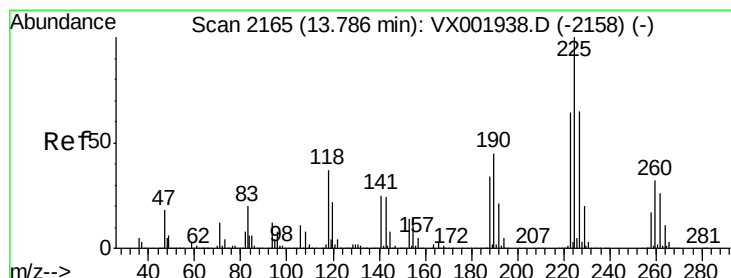
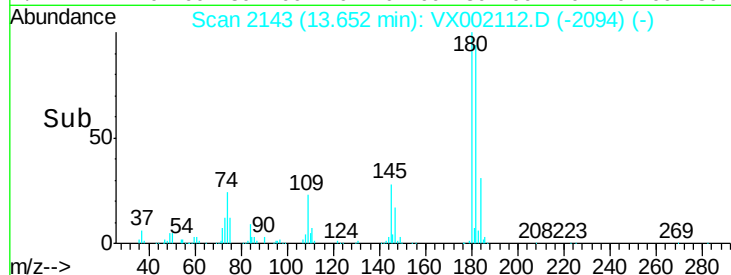
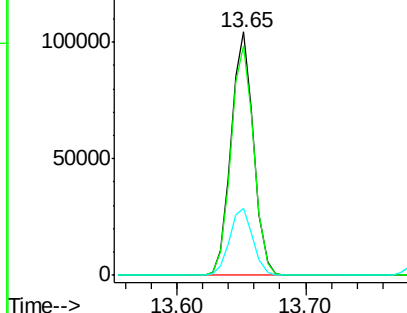
Tot Ion:	180	Resp:	127066
Ion Ratio	Lower	Upper	
180	100		
182	96.2	47.7	143.1
145	28.5	14.4	43.0

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 17.82 ug/l

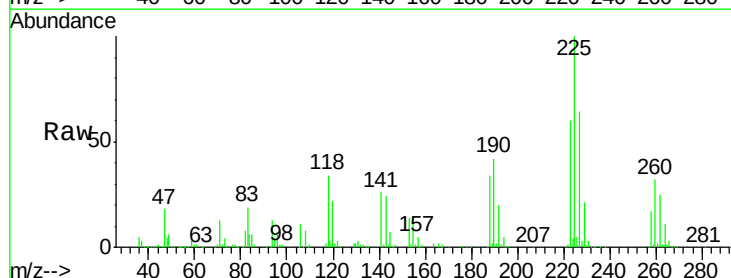
RT: 13.79 min Scan# 2165

Delta R.T. -0.00 min

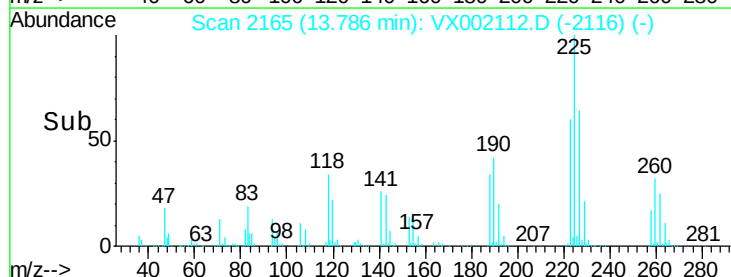
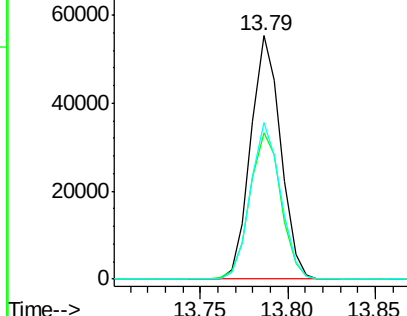
Lab File: VX002112.D

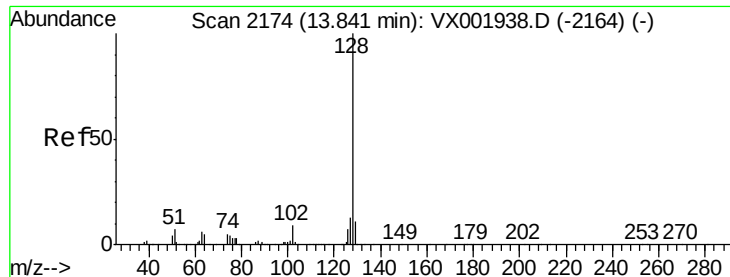
Acq: 30 May 2018 00:39

Tgt Ion:	225	Resp:	66062
Ion Ratio	Lower	Upper	
225	100		
223	62.2	31.1	93.5
227	64.1	32.1	96.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 18.79 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Instrument :

MSVOA_X

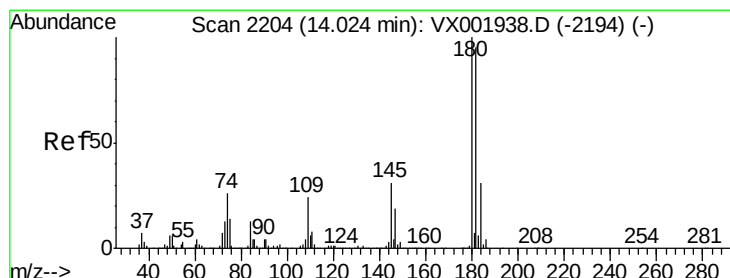
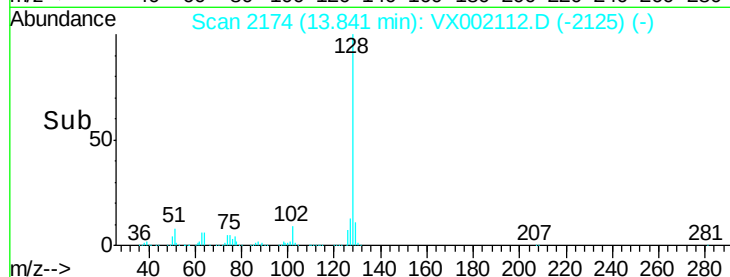
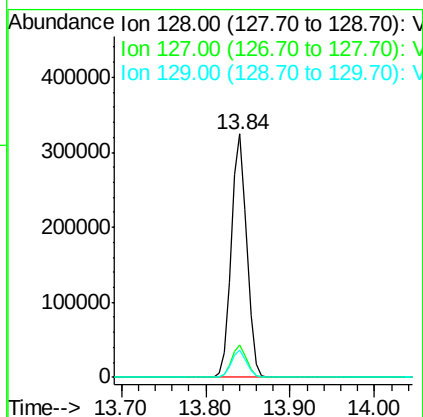
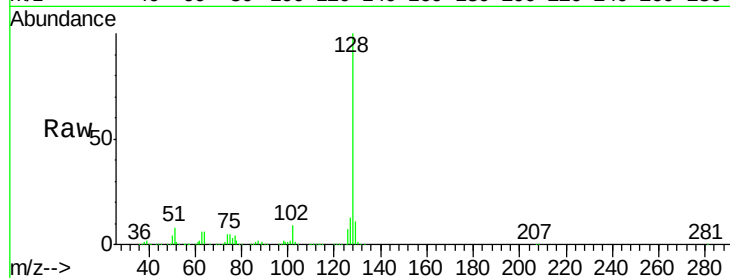
ClientSampleId :

VX0529WBSD02

Tot Ion:	128	Resp:	399053
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.4	15.6
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/30/2018 1:51:02 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.61 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VX002112.D

Acq: 30 May 2018 00:39

Tgt Ion:	180	Resp:	132744
Ion Ratio	Lower	Upper	
180	100		
182	95.3	47.9	143.6
145	30.0	15.1	45.3

