

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071618\
 Data File : VX003390.D
 Acq On : 16 Jul 2018 10:53
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/17/2018 1:46:29 PM

Quant Time: Jul 16 12:46:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 12:43:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	290423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	420362	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	398652	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	227676	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	22525	6.51	ug/l	0.00
Spiked Amount 50.000			Recovery =	13.02%		
35) Dibromofluoromethane	5.51	113	18919	6.11	ug/l	0.00
Spiked Amount 50.000			Recovery =	12.22%		
50) Toluene-d8	8.72	98	64488	5.86	ug/l	0.00
Spiked Amount 50.000			Recovery =	11.72%		
62) 4-Bromofluorobenzene	11.14	95	21033	4.88	ug/l	0.00
Spiked Amount 50.000			Recovery =	9.76%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	16964	6.55	ug/l	97
3) Chloromethane	1.32	50	19813	5.97	ug/l	95
4) Vinyl Chloride	1.40	62	21451	5.72	ug/l	99
5) Bromomethane	1.64	94	11109	5.24	ug/l	96
6) Chloroethane	1.71	64	13815	5.70	ug/l	93
7) Trichlorofluoromethane	1.92	101	29454	5.45	ug/l	99
8) Diethyl Ether	2.19	74	12015	5.02	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	18431	5.31	ug/l	97
10) Methyl Iodide	2.51	142	14204	4.03	ug/l	94
11) Tert butyl alcohol	3.09	59	23584	28.00	ug/l	97
12) 1,1-Dichloroethene	2.37	96	17623	5.47	ug/l	88
13) Acrolein	2.29	56	12341	36.97	ug/l	98
14) Allyl chloride	2.73	41	32407	5.24	ug/l	87
15) Acrylonitrile	3.15	53	56346	26.80	ug/l	98
16) Acetone	2.45	43	44565	27.34	ug/l #	87
17) Carbon Disulfide	2.57	76	46778	5.91	ug/l	98
18) Methyl Acetate	2.78	43	24633	4.87	ug/l	92
19) Methyl tert-butyl Ether	3.21	73	57744	5.01	ug/l	96
20) Methylene Chloride	2.86	84	21162	5.38	ug/l	90
21) trans-1,2-Dichloroethene	3.16	96	18607	5.41	ug/l	96
22) Diisopropyl ether	3.88	45	61891	5.38	ug/l	94
23) Vinyl Acetate	3.83	43	259801	27.62	ug/l #	95
24) 1,1-Dichloroethane	3.70	63	35419	5.43	ug/l	98
25) 2-Butanone	4.72	43	68369	27.06	ug/l	95
26) 2,2-Dichloropropane	4.58	77	25000	5.41	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	19968	5.28	ug/l	86
28) Bromochloromethane	5.02	49	14526	4.88	ug/l	90
29) Tetrahydrofuran	5.18	42	41713	25.84	ug/l	92
30) Chloroform	5.22	83	30987	4.95	ug/l	97
31) Cyclohexane	5.57	56	24736	4.95	ug/l	91
32) 1,1,1-Trichloroethane	5.49	97	25994	4.99	ug/l	99
36) 1,1-Dichloropropene	5.80	75	22272	4.99	ug/l	99
37) Ethyl Acetate	4.88	43	27269	5.57	ug/l	97
38) Carbon Tetrachloride	5.78	117	22562	4.96	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071618\
 Data File : VX003390.D
 Acq On : 16 Jul 2018 10:53
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/17/2018 1:46:29 PM

Quant Time: Jul 16 12:46:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 12:43:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	24902	4.93	ug/l	98
40) Benzene	6.15	78	68465	4.90	ug/l	100
41) Methacrylonitrile	5.07	41	14007	5.00	ug/l	93
42) 1,2-Dichloroethane	6.20	62	24611	5.04	ug/l	97
43) Isopropyl Acetate	6.48	43	37806	4.93	ug/l	98
44) Trichloroethene	7.21	130	19850	5.01	ug/l	100
45) 1,2-Dichloropropane	7.52	63	17600	4.74	ug/l	99
46) Dibromomethane	7.67	93	11791	4.94	ug/l	98
47) Bromodichloromethane	7.90	83	20738	4.61	ug/l	96
48) Methyl methacrylate	7.79	41	18162	4.64	ug/l	87
49) 1,4-Dioxane	7.76	88	8741	102.33	ug/l	98
51) 4-Methyl-2-Pentanone	8.66	43	124221	24.78	ug/l	95
52) Toluene	8.79	92	43170	4.87	ug/l	98
53) t-1,3-Dichloropropene	8.44	75	23966	4.54	ug/l	99
54) cis-1,3-Dichloropropene	9.05	75	21839	4.53	ug/l #	88
55) 1,1,2-Trichloroethane	9.22	97	17868	4.83	ug/l	97
56) Ethyl methacrylate	9.19	69	23913	4.53	ug/l #	85
57) 1,3-Dichloropropane	9.38	76	28733	4.79	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	58643	22.84	ug/l	98
59) 2-Hexanone	9.50	43	93370	25.25	ug/l	93
60) Dibromochloromethane	9.59	129	16353	4.55	ug/l	99
61) 1,2-Dibromoethane	9.68	107	17862	4.79	ug/l	97
64) Tetrachloroethene	9.34	164	22217	5.15	ug/l	97
65) Chlorobenzene	10.14	112	49459	4.83	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.23	131	16829	4.65	ug/l	98
67) Ethyl Benzene	10.26	91	77381	4.65	ug/l	97
68) m/p-Xylenes	10.36	106	59477	9.27	ug/l	98
69) o-Xylene	10.70	106	27833	4.44	ug/l	99
70) Styrene	10.71	104	46604	4.42	ug/l	98
71) Bromoform	10.86	173	12275	4.43	ug/l #	97
73) Isopropylbenzene	11.02	105	76031	4.83	ug/l	100
74) N-amyl acetate	6.48	43	37806	5.18	ug/l #	98
75) 1,1,2,2-Tetrachloroethane	11.27	83	26348	5.13	ug/l	100
76) 1,2,3-Trichloropropane	11.30	75	22399m	4.98	ug/l	
77) Bromobenzene	11.26	156	21832	4.91	ug/l	100
78) n-propylbenzene	11.37	91	83024	4.67	ug/l	99
79) 2-Chlorotoluene	11.43	91	52929	4.82	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	61028	4.68	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.08	75	5811	4.31	ug/l	96
82) 4-Chlorotoluene	11.51	91	60225	4.70	ug/l	99
83) tert-Butylbenzene	11.77	119	59195	4.58	ug/l	97
84) 1,2,4-Trimethylbenzene	11.81	105	62059	4.69	ug/l	98
85) sec-Butylbenzene	11.95	105	72113	4.67	ug/l	99
86) p-Isopropyltoluene	12.07	119	63567	4.60	ug/l	99
87) 1,3-Dichlorobenzene	12.03	146	39879	4.80	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	40932	4.85	ug/l	96
89) n-Butylbenzene	12.39	91	52418	4.44	ug/l	99
90) Hexachloroethane	12.60	117	9111	4.40	ug/l	97
91) 1,2-Dichlorobenzene	12.40	146	40479	4.87	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	5018	4.92	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071618\
Data File : VX003390.D
Acq On : 16 Jul 2018 10:53
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

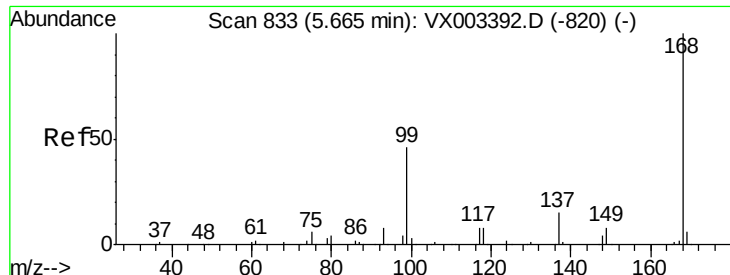
Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM

Quant Time: Jul 16 12:46:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 16 12:43:39 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	25916	4.56	ug/l	98
94) Hexachlorobutadiene	13.79	225	12717	4.74	ug/l	99
95) Naphthalene	13.84	128	71554	4.49	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	26891	4.69	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 290423

Ion Ratio Lower Upper

168 100

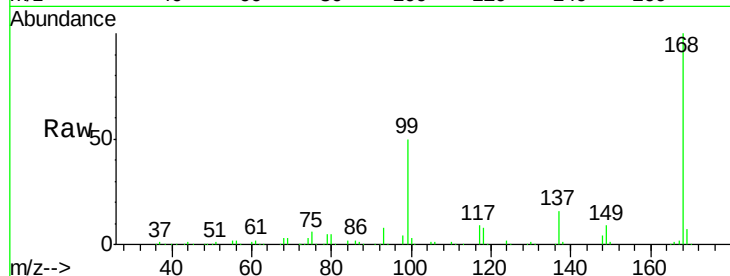
99 50.4 39.3 58.9

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

20000

0

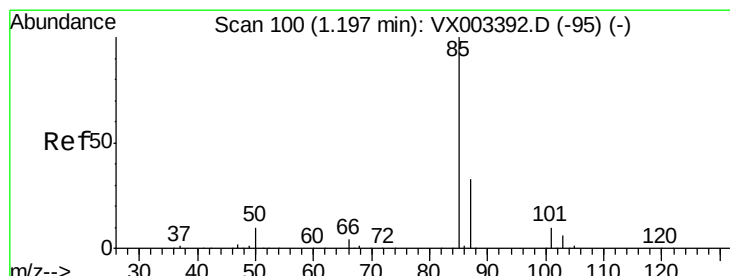
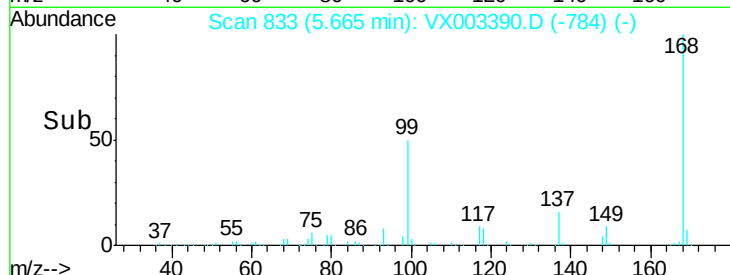
5.50

5.60

5.70

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 6.55 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003390.D

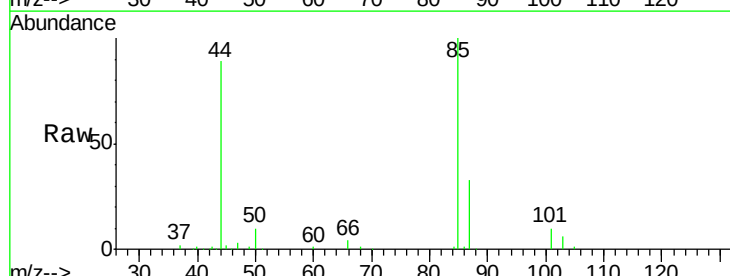
Acq: 16 Jul 2018 10:53

Tgt Ion: 85 Resp: 16964

Ion Ratio Lower Upper

85 100

87 33.4 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

20000

15000

10000

5000

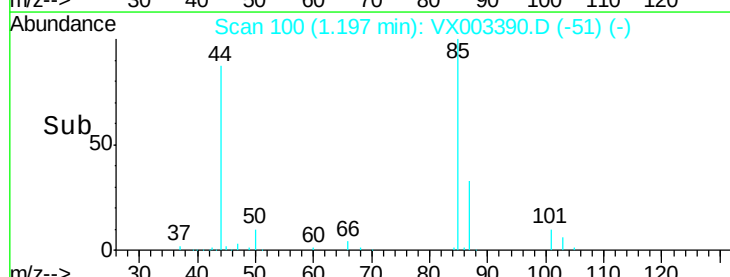
0

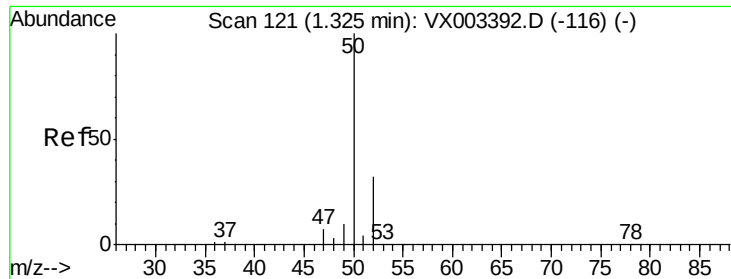
1.15

1.20

1.25

Time-->





#3

Chloromethane

Concen: 5.97 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 19813

Ion Ratio Lower Upper

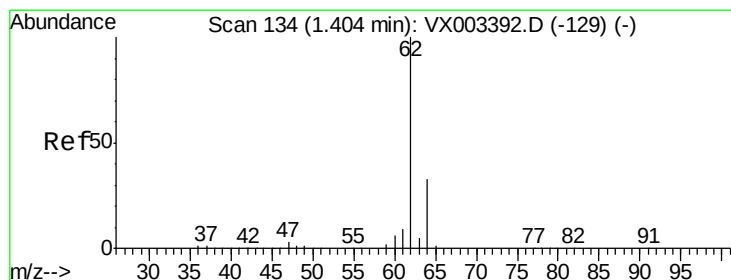
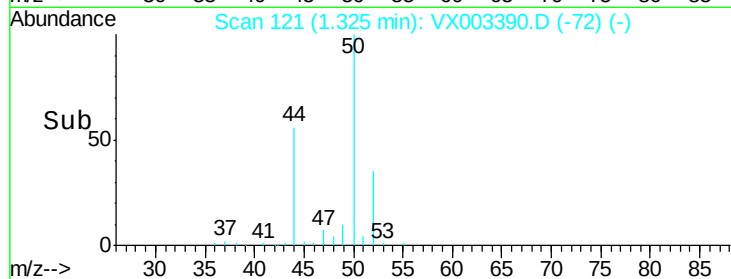
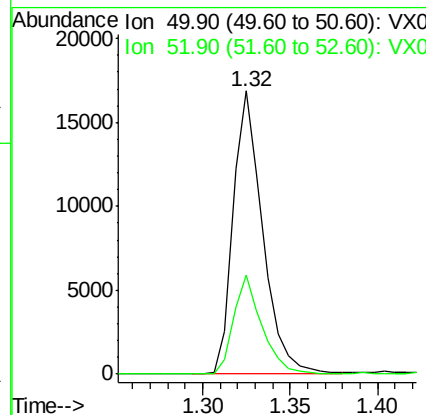
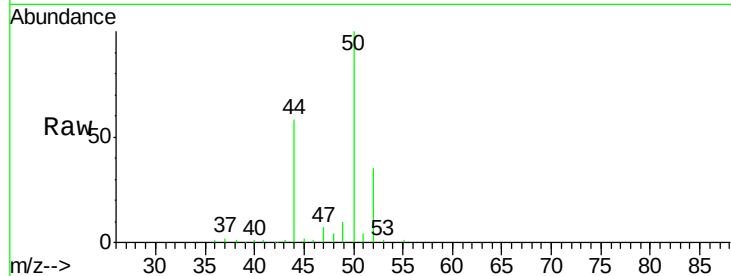
50 100

52 35.1 25.7 38.5

Manual Integrations
APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#4

Vinyl Chloride

Concen: 5.72 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003390.D

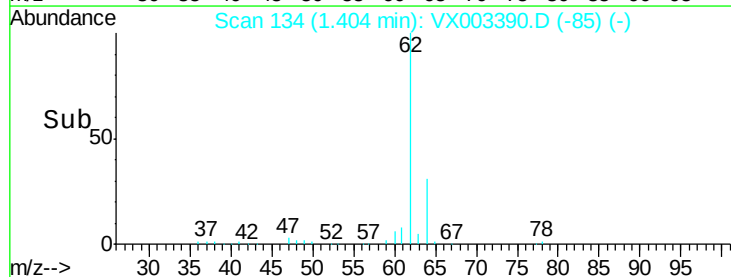
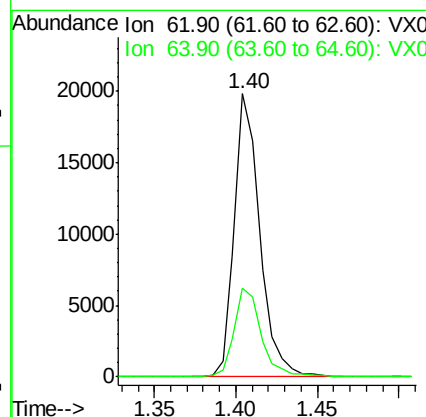
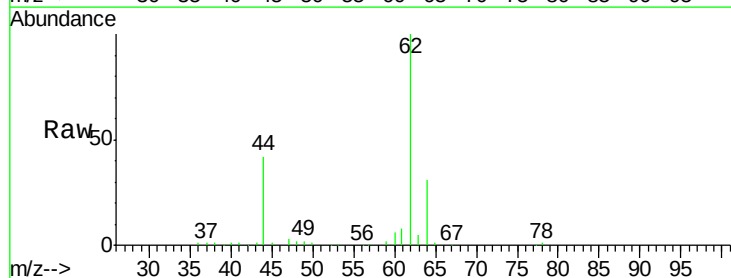
Acq: 16 Jul 2018 10:53

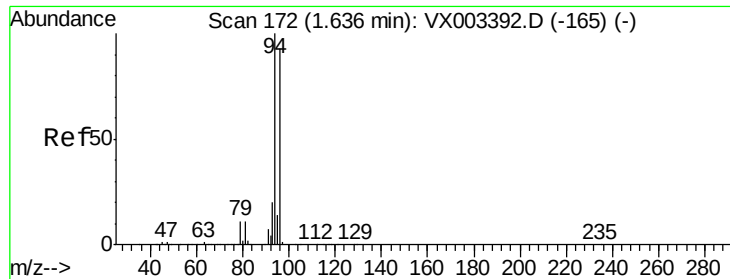
Tgt Ion: 62 Resp: 21451

Ion Ratio Lower Upper

62 100

64 31.3 25.4 38.2





#5

Bromomethane

Concen: 5.24 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 11109

Ion Ratio Lower Upper

94 100

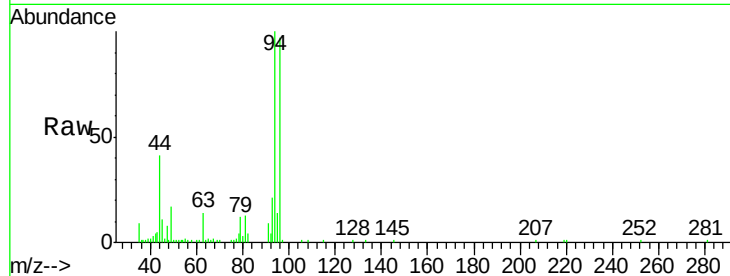
96 97.0 74.9 112.3

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

12000

10000

8000

6000

4000

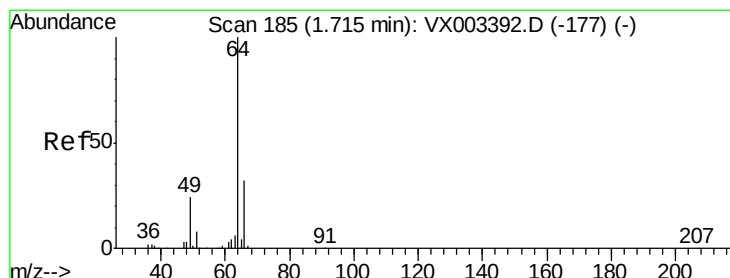
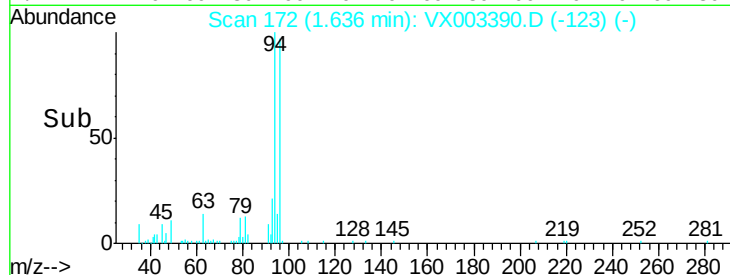
2000

0

1.64

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: 5.70 ug/l

RT: 1.71 min Scan# 185

Delta R.T. 0.00 min

Lab File: VX003390.D

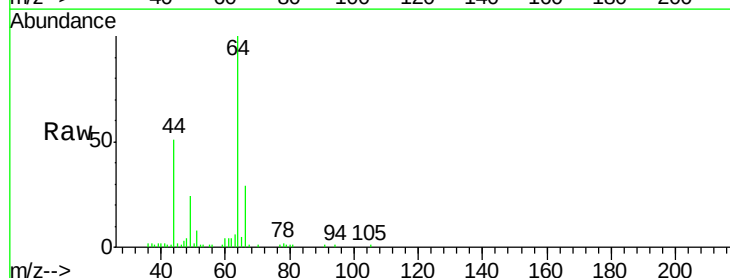
Acq: 16 Jul 2018 10:53

Tgt Ion: 64 Resp: 13815

Ion Ratio Lower Upper

64 100

66 28.2 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

12000

10000

8000

6000

4000

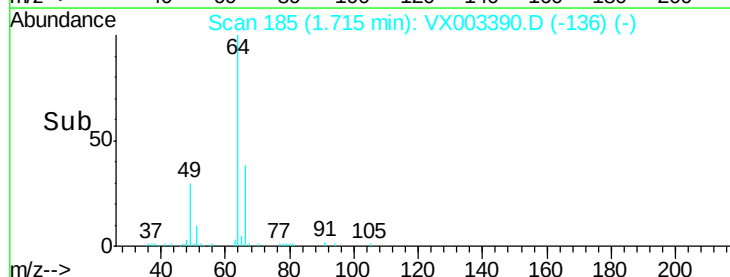
2000

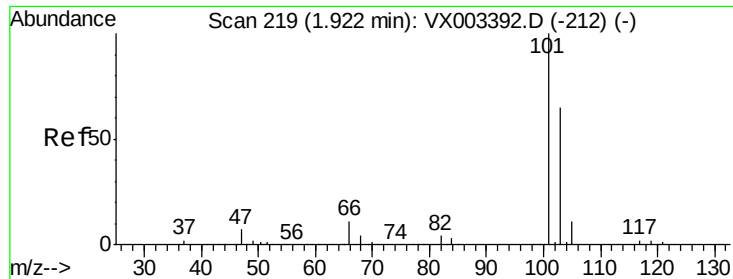
0

1.71

1.65 1.70 1.75

Time-->





#7

Trichlorofluoromethane

Concen: 5.45 ug/l

RT: 1.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 29454

Ion Ratio Lower Upper

101 100

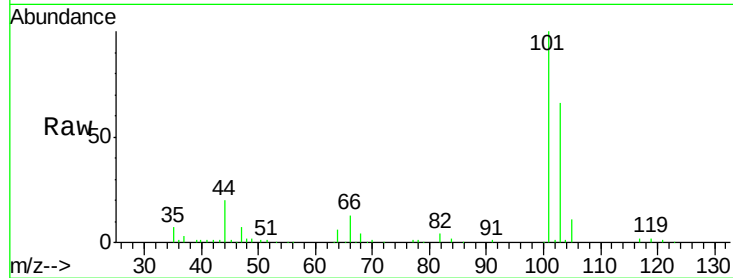
103 65.6 52.8 79.2

Manual Integrations

APPROVED

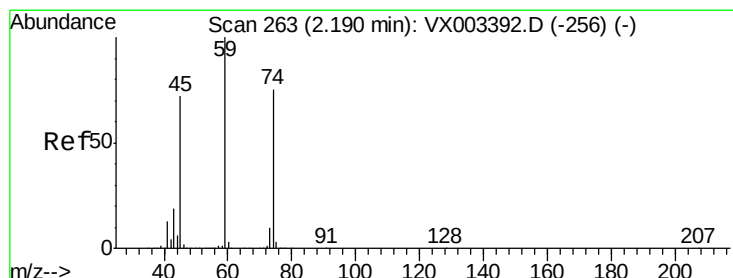
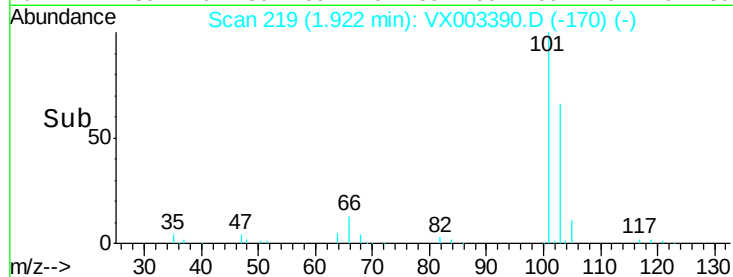
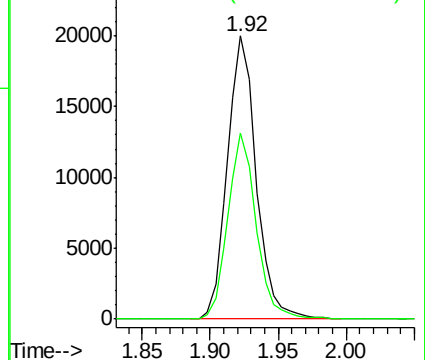
MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 5.02 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003390.D

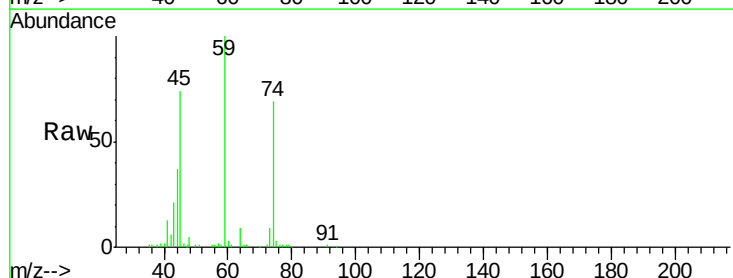
Acq: 16 Jul 2018 10:53

Tgt Ion: 74 Resp: 12015

Ion Ratio Lower Upper

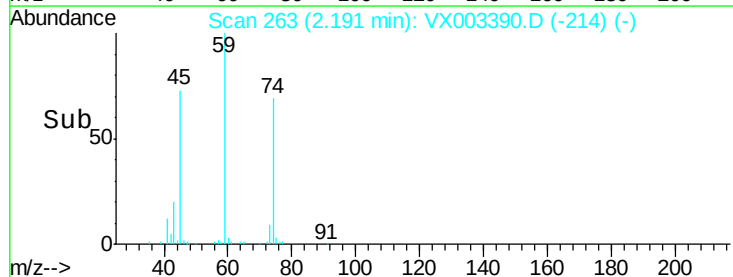
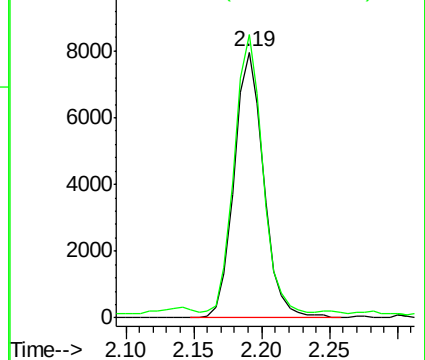
74 100

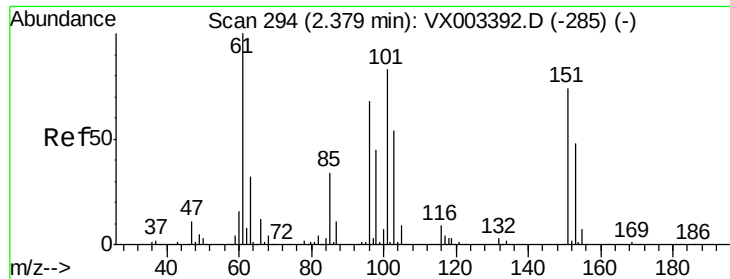
45 100.2 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.31 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

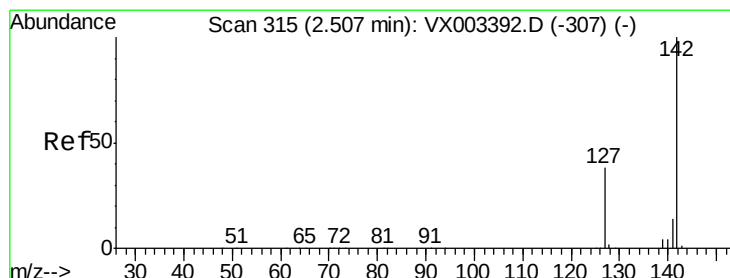
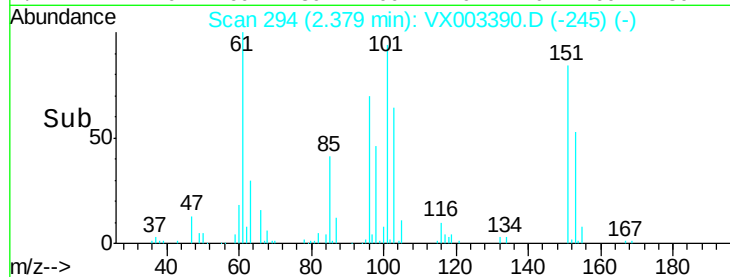
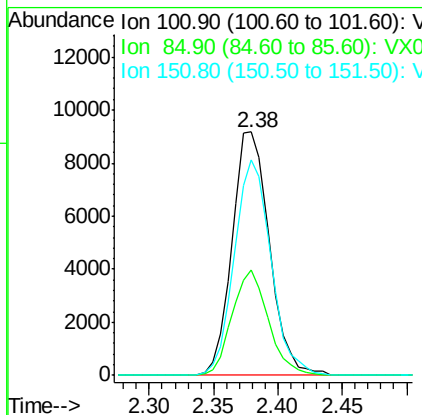
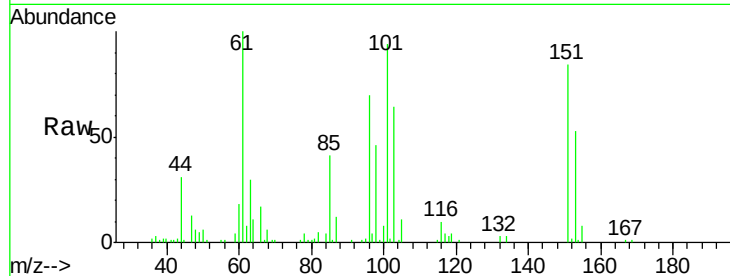
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	18431
Ion Ratio	Lower	Upper	
101	100		
85	41.8	36.0	54.0
151	86.9	70.9	106.3

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#10

Methyl Iodide

Concen: 4.03 ug/l

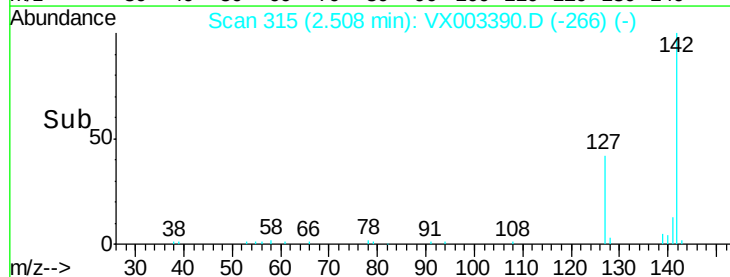
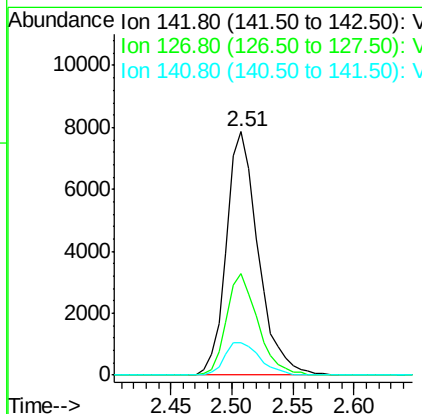
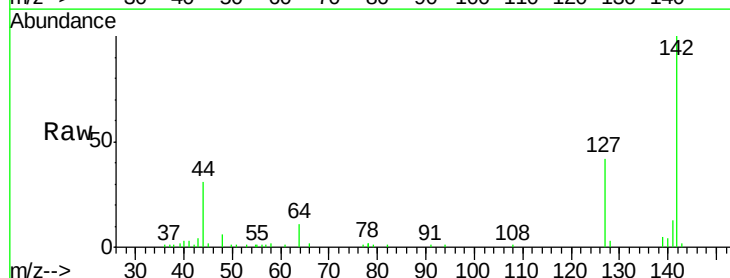
RT: 2.51 min Scan# 315

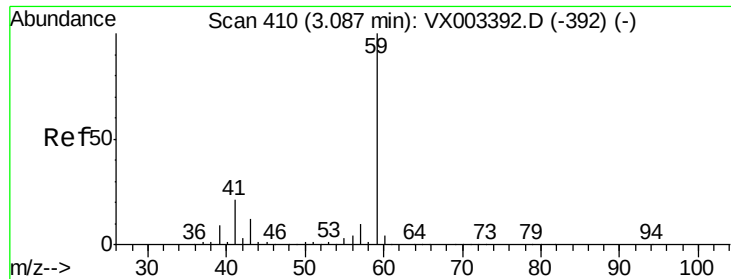
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	142	Resp:	14204
Ion Ratio	Lower	Upper	
142	100		
127	40.9	36.6	55.0
141	14.7	11.3	16.9





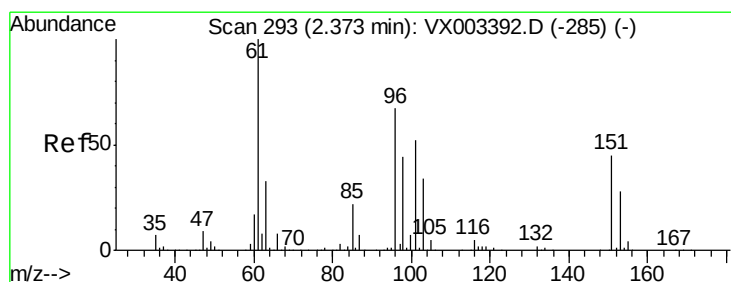
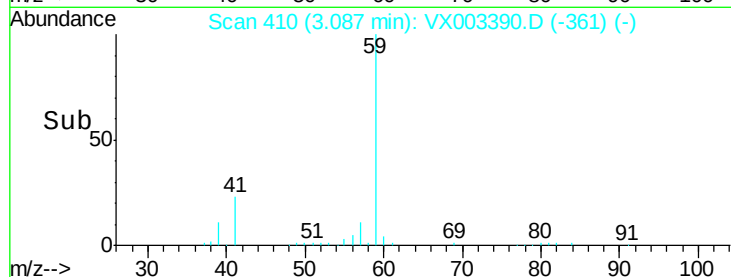
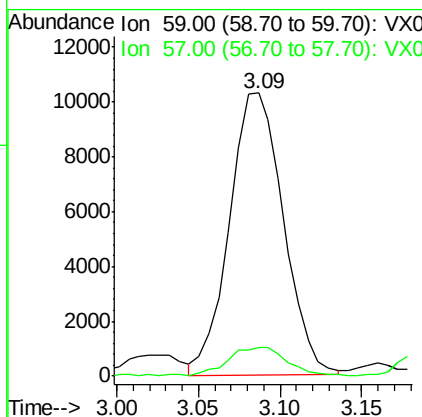
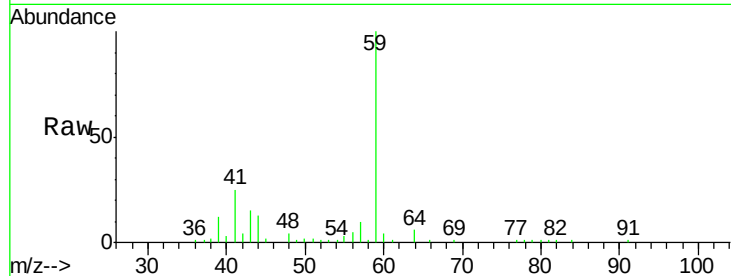
#11
Tert butyl alcohol
Concen: 28.00 ug/l
RT: 3.09 min Scan# 410
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

Tot Ion: 59 Resp: 23584
Ion Ratio Lower Upper
59 100
57 11.5 8.2 12.2

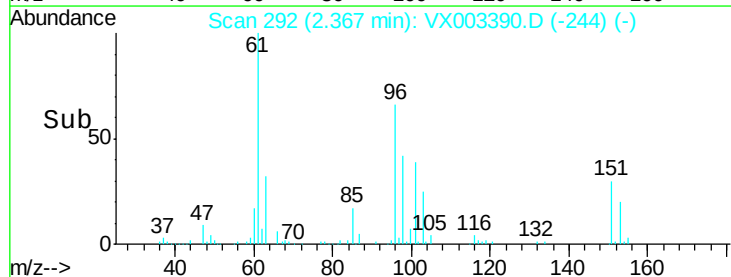
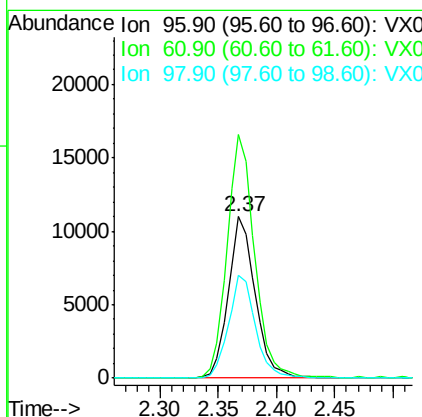
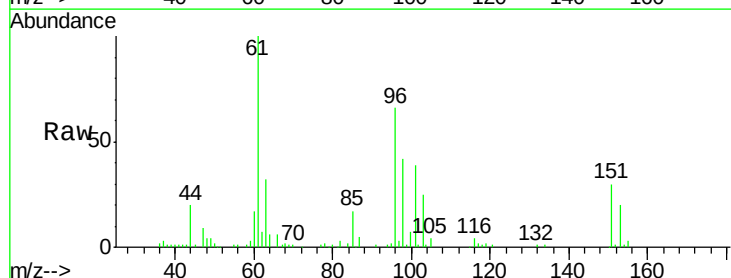
Manual Integrations
APPROVED

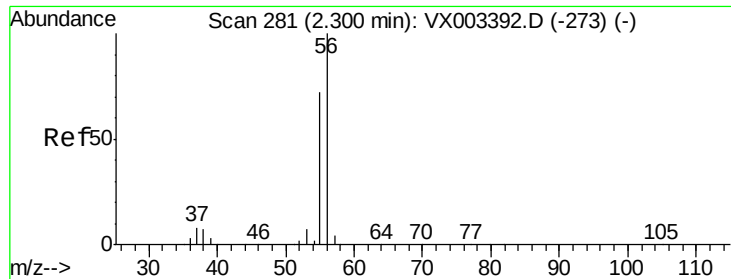
MMDadoda
7/17/2018 1:46:29 PM



#12
1,1-Dichloroethene
Concen: 5.47 ug/l
RT: 2.37 min Scan# 292
Delta R.T. -0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion: 96 Resp: 17623
Ion Ratio Lower Upper
96 100
61 150.9 137.9 206.9
98 63.8 51.6 77.4





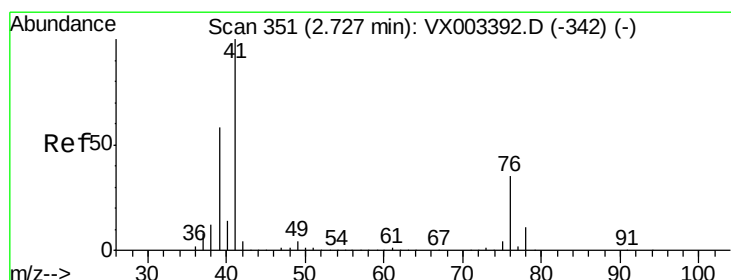
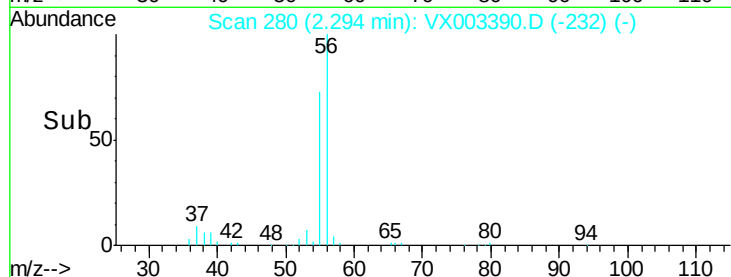
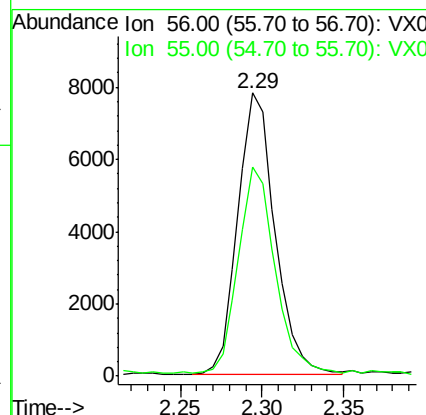
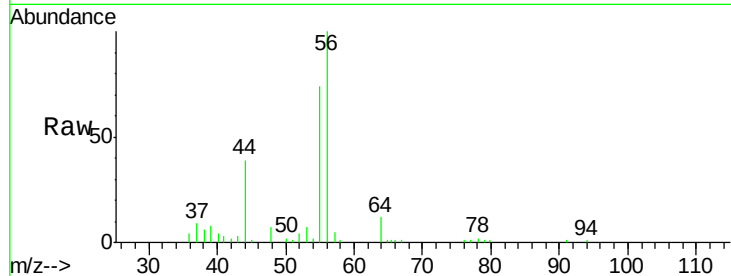
#13
Acrolein
Concen: 36.97 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.9	57.0	85.4

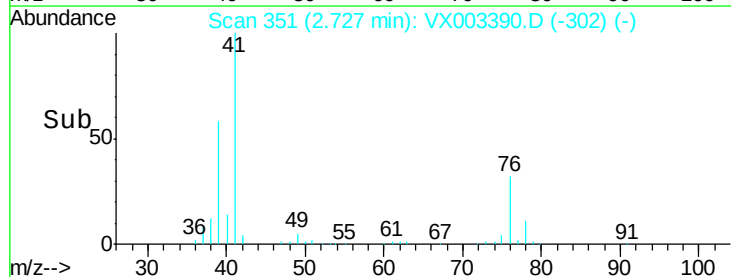
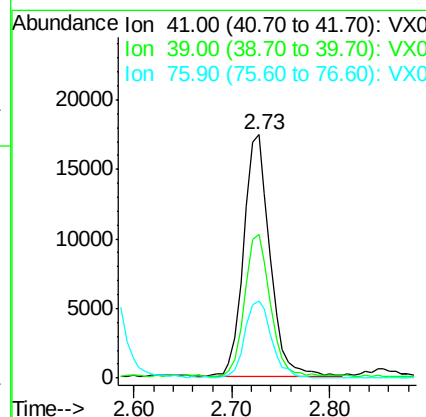
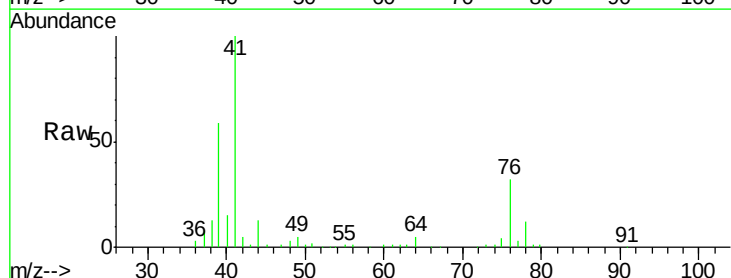
Manual Integrations
APPROVED

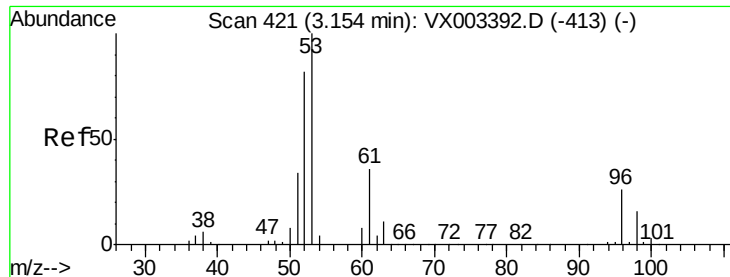
MMDadoda
7/17/2018 1:46:29 PM



#14
Allyl chloride
Concen: 5.24 ug/l
RT: 2.73 min Scan# 351
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
41	100		
39	57.5	56.8	85.2
76	32.9	23.8	35.8





#15

Acrylonitrile

Concen: 26.80 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

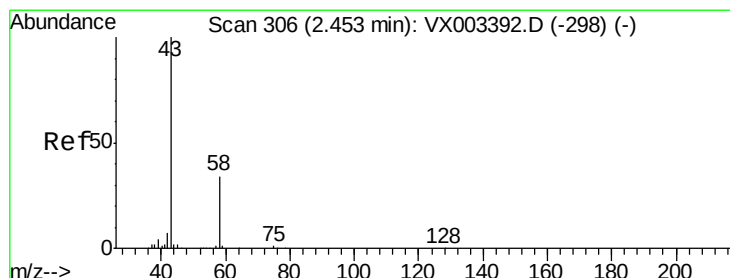
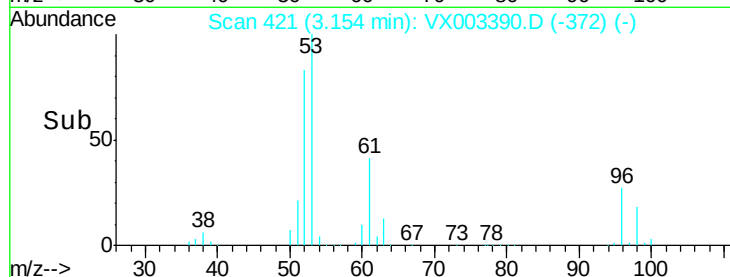
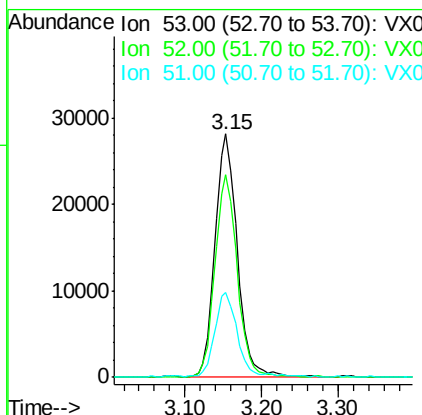
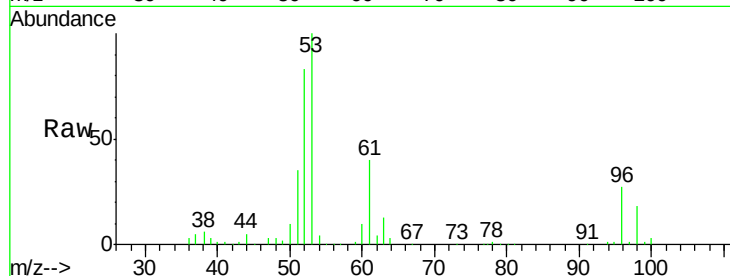
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	56346
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.7	100.1
51	34.1	29.9	44.9

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#16

Acetone

Concen: 27.34 ug/l

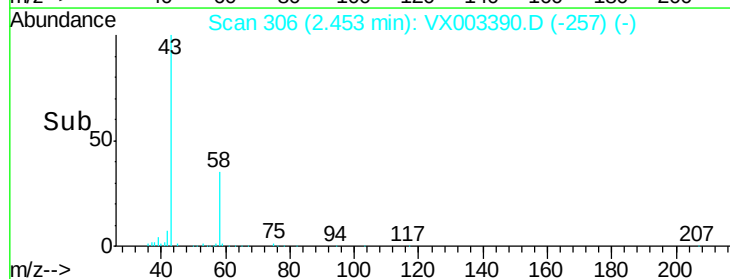
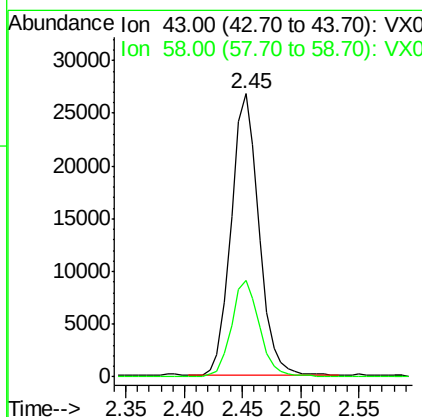
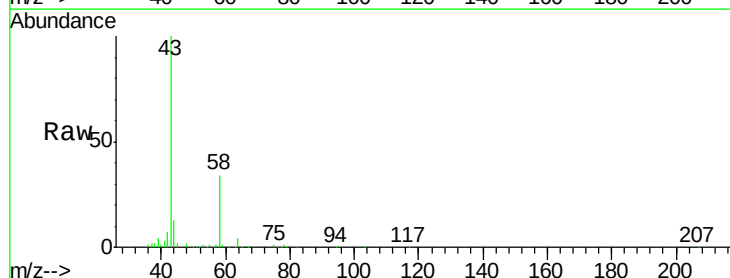
RT: 2.45 min Scan# 306

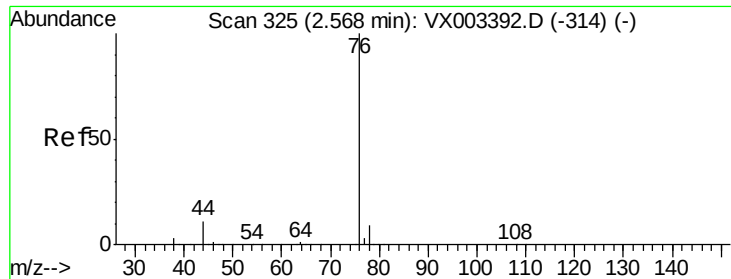
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	43	Resp:	44565
Ion	Ratio	Lower	Upper
43	100		
58	34.5	22.1	33.1#





#17

Carbon Disulfide

Concen: 5.91 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 46778

Ion Ratio Lower Upper

76 100

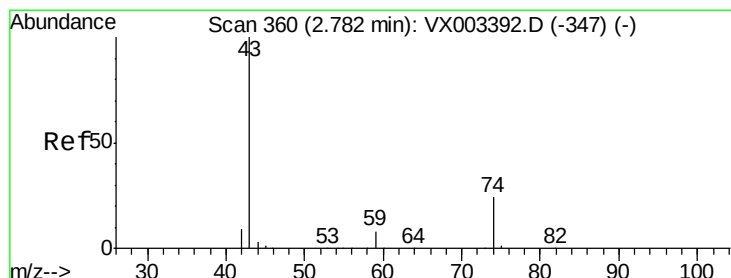
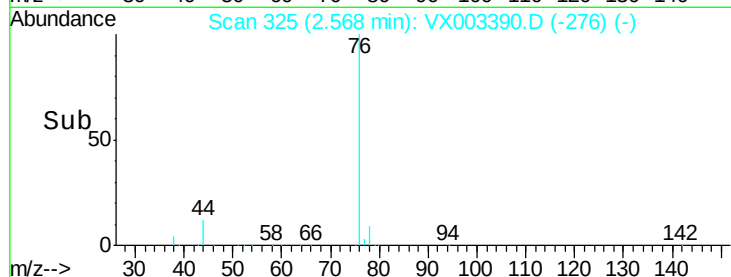
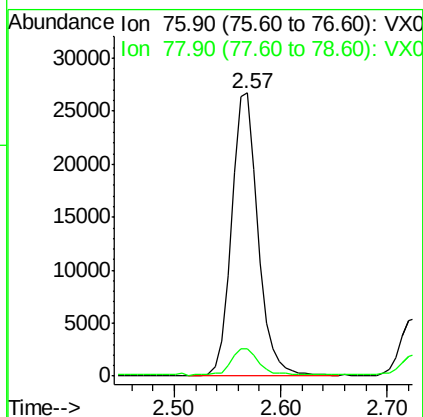
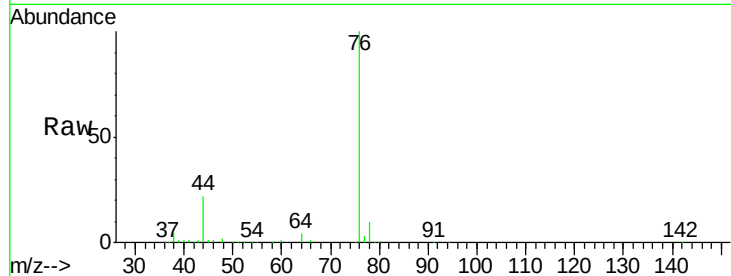
78 9.4 6.9 10.3

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#18

Methyl Acetate

Concen: 4.87 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003390.D

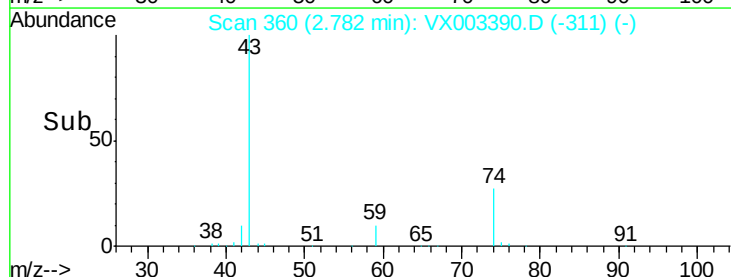
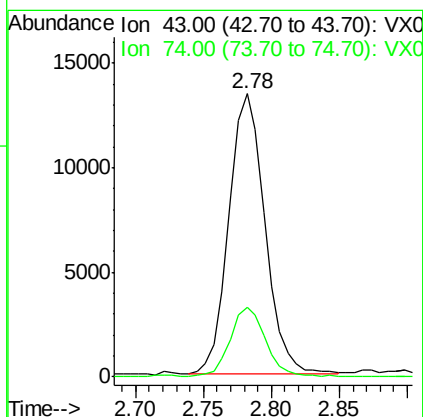
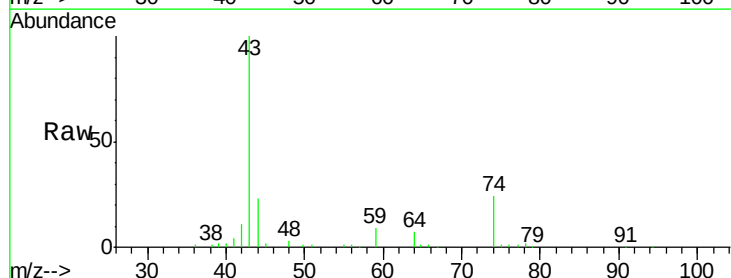
Acq: 16 Jul 2018 10:53

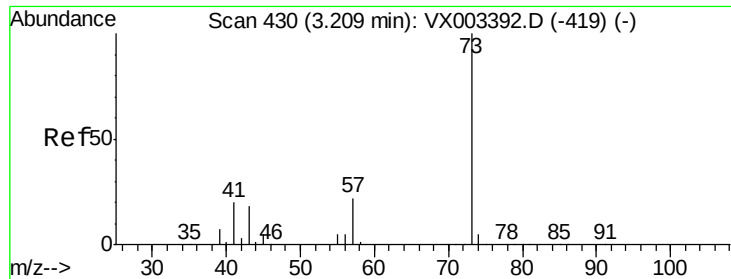
Tgt Ion: 43 Resp: 24633

Ion Ratio Lower Upper

43 100

74 24.7 16.7 25.1





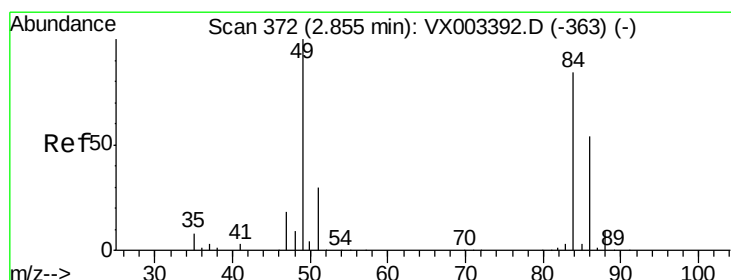
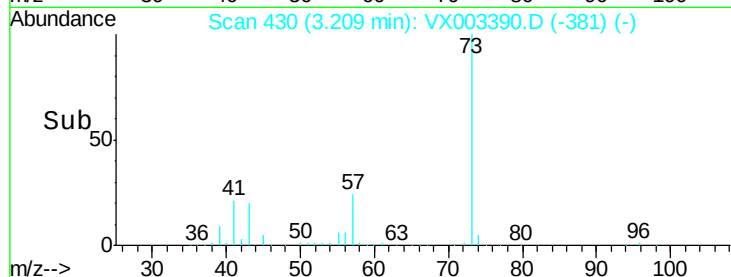
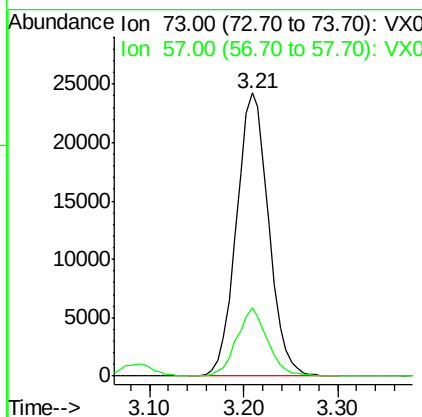
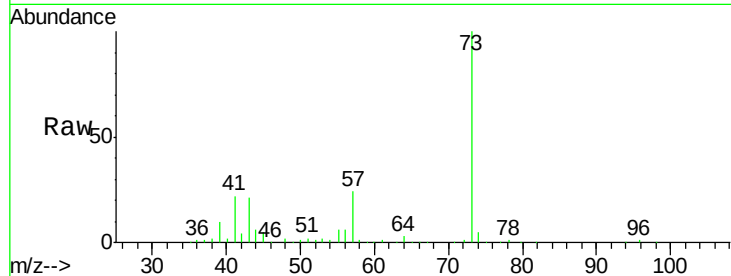
#19
Methyl tert-butyl Ether
Concen: 5.01 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleID :
VSTDIC005

Tot Ion: 73 Resp: 57744
Ion Ratio Lower Upper
73 100
57 24.0 17.7 26.5

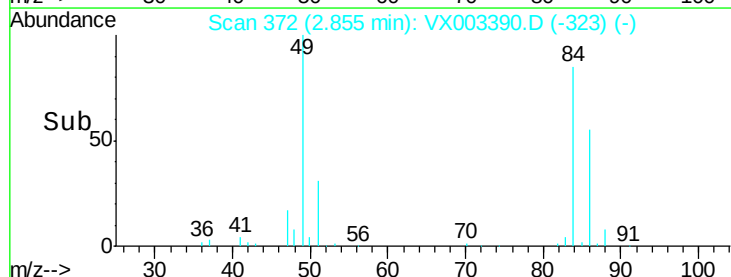
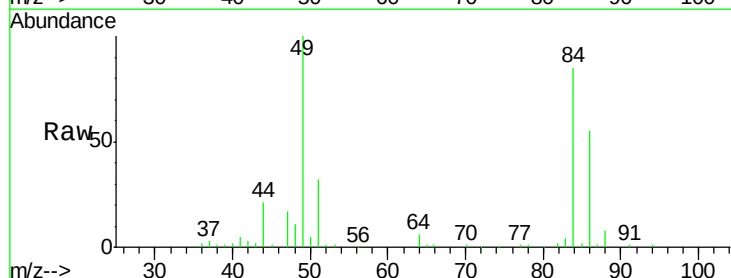
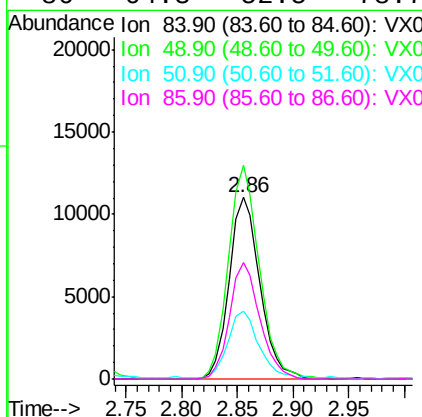
Manual Integrations
APPROVED

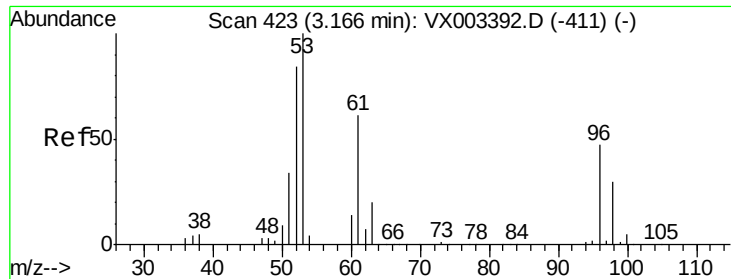
MMDadoda
7/17/2018 1:46:29 PM



#20
Methylene Chloride
Concen: 5.38 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion: 84 Resp: 21162
Ion Ratio Lower Upper
84 100
49 117.9 107.8 161.6
51 36.6 32.8 49.2
86 64.3 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 5.41 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

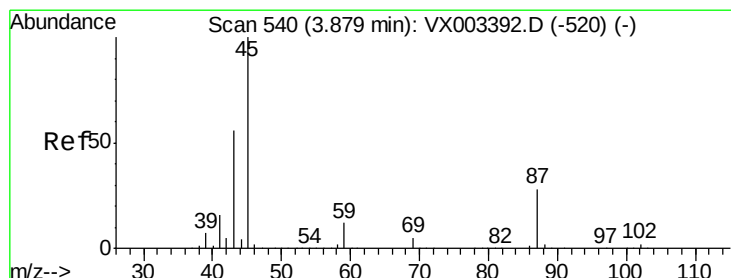
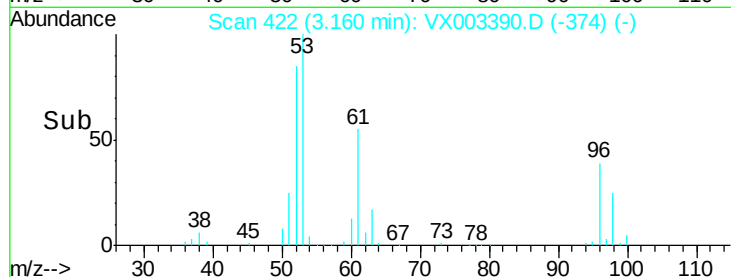
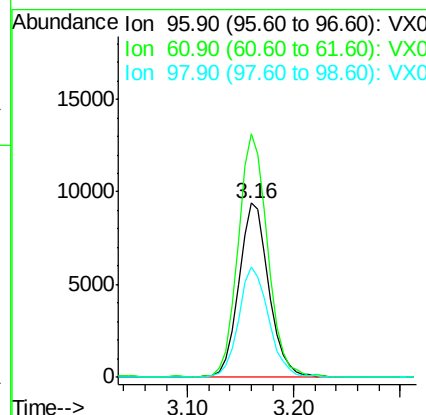
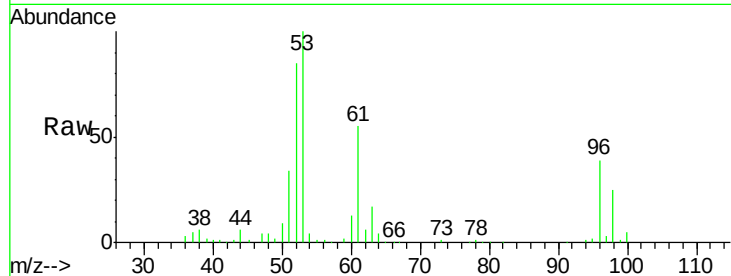
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	18607
Ion Ratio	Lower	Upper	
96	100		
61	139.8	117.0	175.4
98	63.6	52.4	78.6

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#22

Diisopropyl ether

Concen: 5.38 ug/l

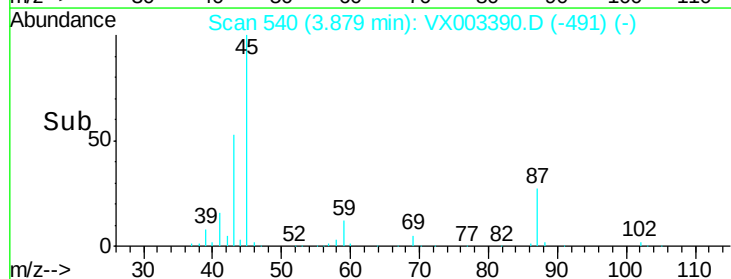
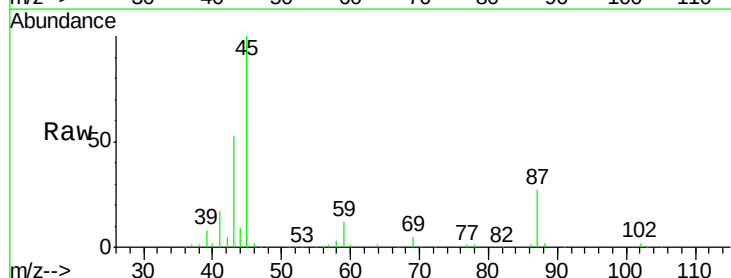
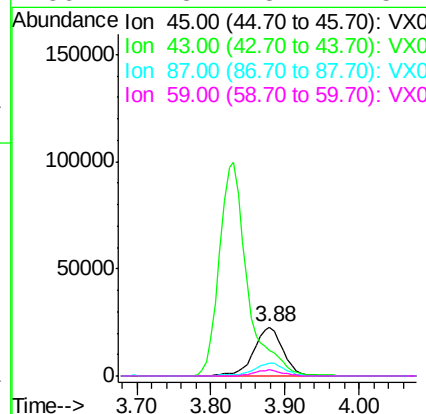
RT: 3.88 min Scan# 540

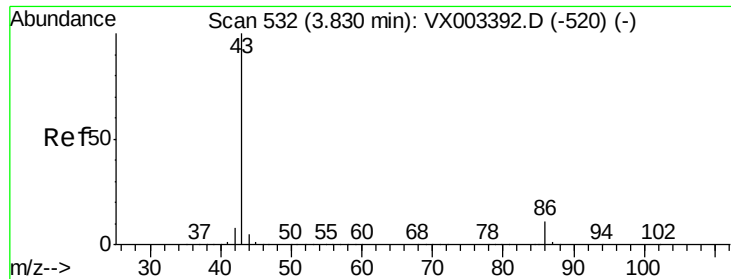
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	45	Resp:	61891
Ion Ratio	Lower	Upper	
45	100		
43	52.4	46.8	70.2
87	27.1	20.2	30.4
59	12.3	8.7	13.1





#23

Vinyl Acetate

Concen: 27.62 ug/l

RT: 3.83 min Scan# 532

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 259801

Ion Ratio Lower Upper

43 100

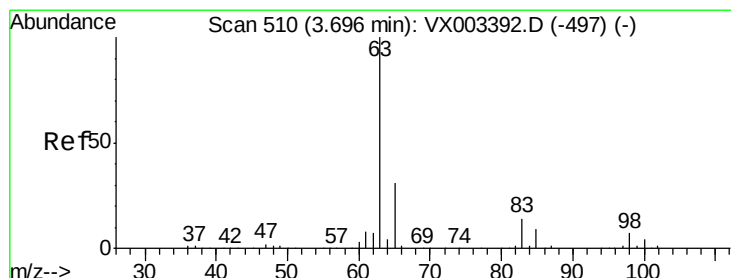
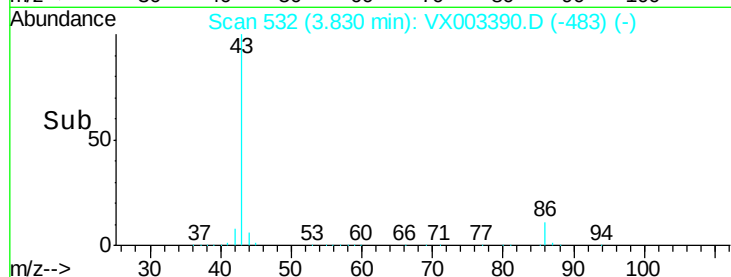
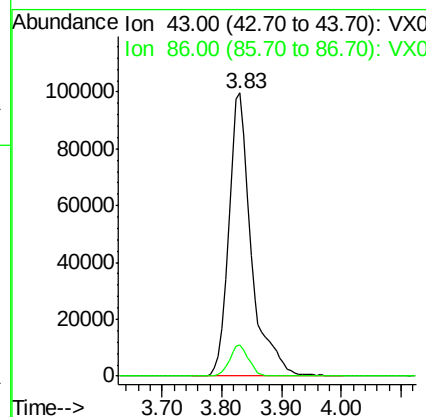
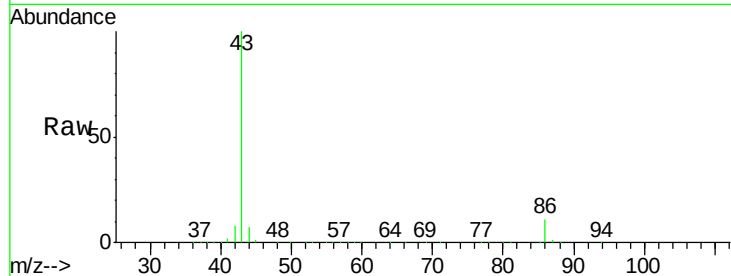
86 11.1 7.4 11.0#

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#24

1,1-Dichloroethane

Concen: 5.43 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

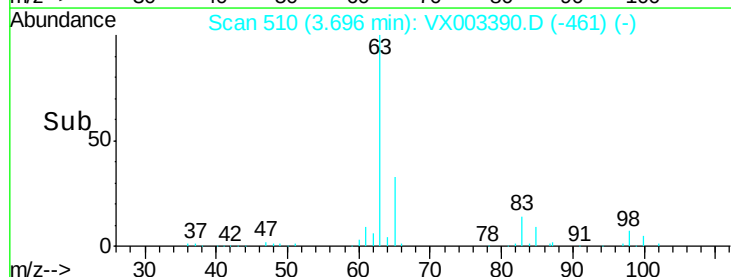
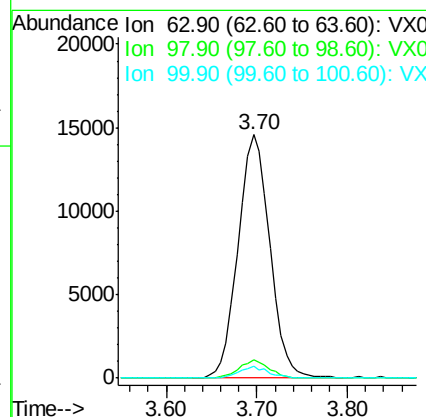
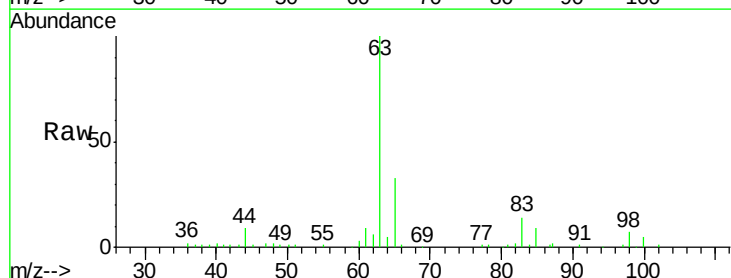
Tgt Ion: 63 Resp: 35419

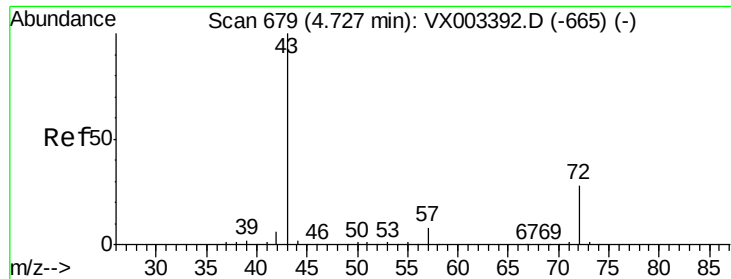
Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.2

100 4.9 2.0 6.0





#25

2-Butanone

Concen: 27.06 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 68369

Ion Ratio Lower Upper

43 100

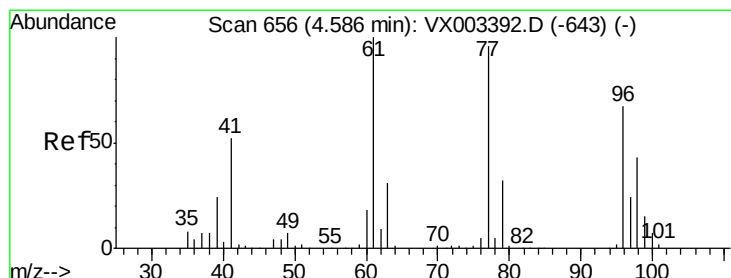
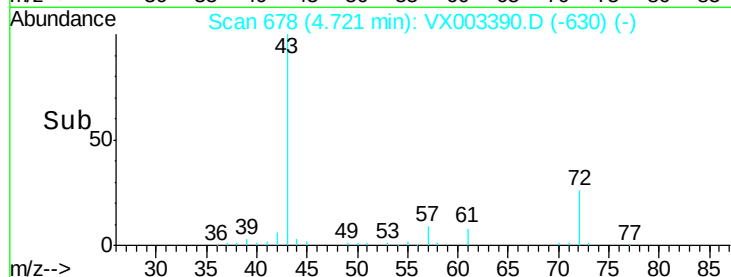
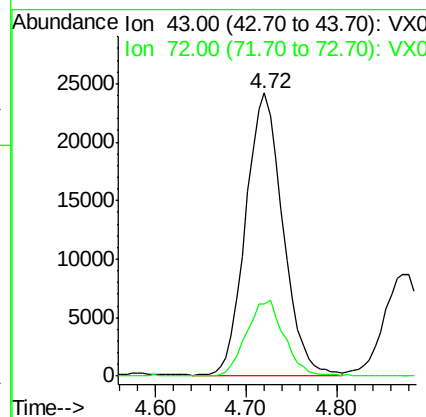
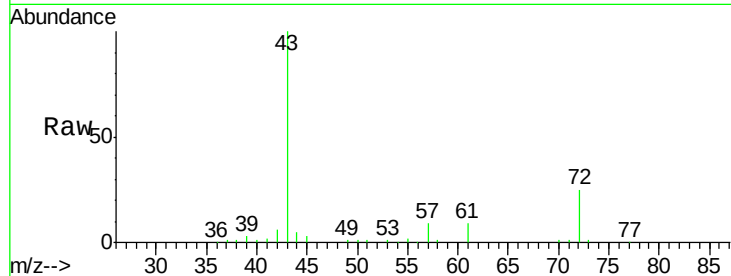
72 25.5 18.5 27.7

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#26

2,2-Dichloropropane

Concen: 5.41 ug/l

RT: 4.58 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX003390.D

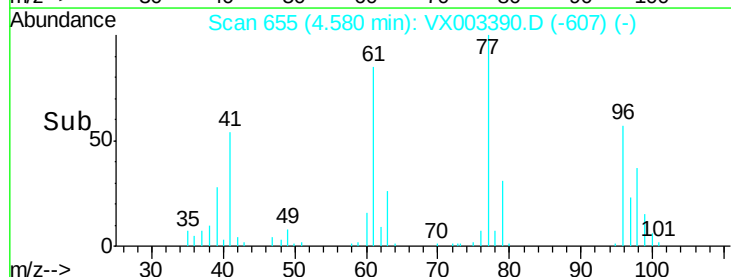
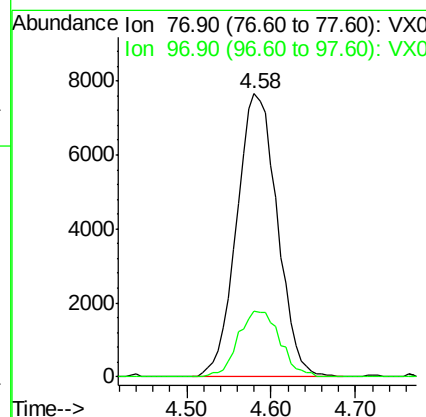
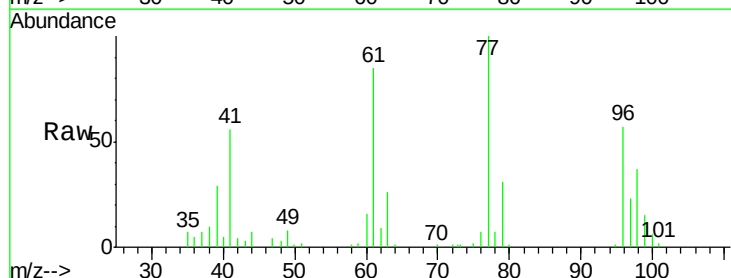
Acq: 16 Jul 2018 10:53

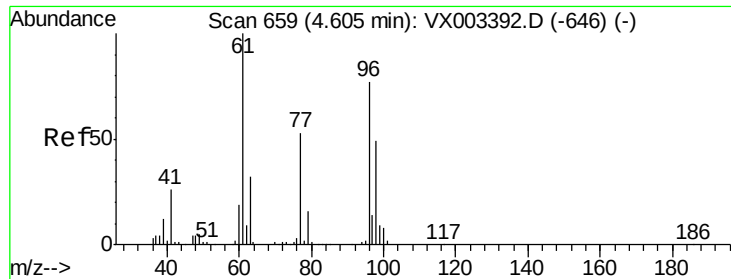
Tgt Ion: 77 Resp: 25000

Ion Ratio Lower Upper

77 100

97 24.0 11.2 33.5





#27

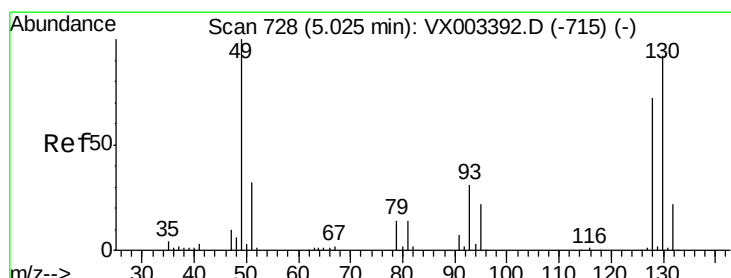
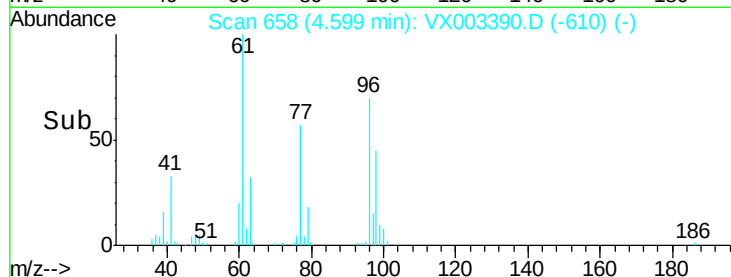
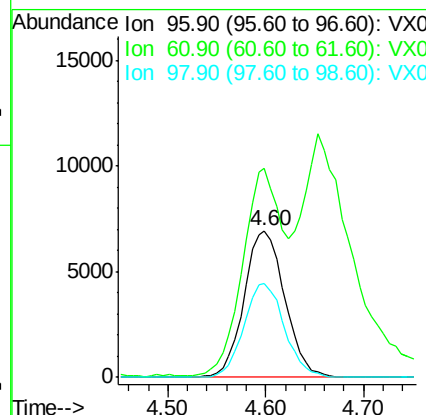
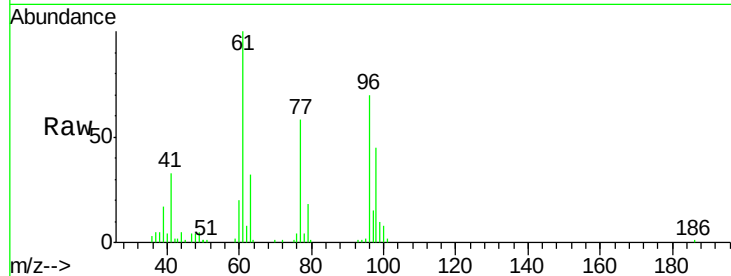
cis-1,2-Dichloroethene
Concen: 5.28 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	330.2
98	63.4	0.0	130.2

Manual Integrations
APPROVED

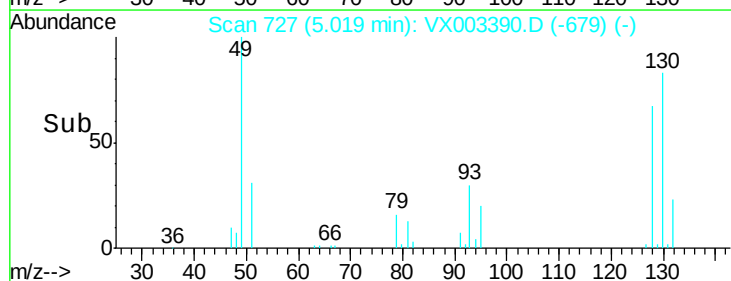
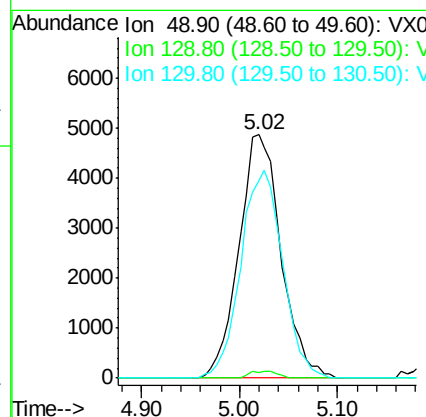
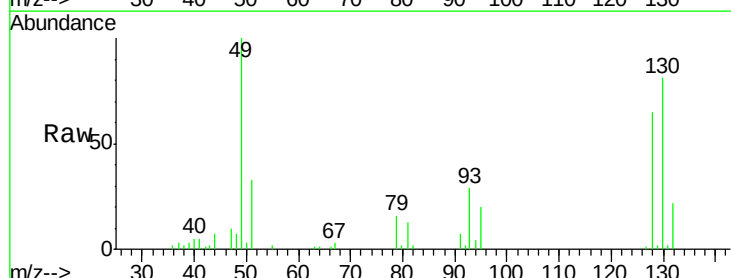
MMDadoda
7/17/2018 1:46:29 PM

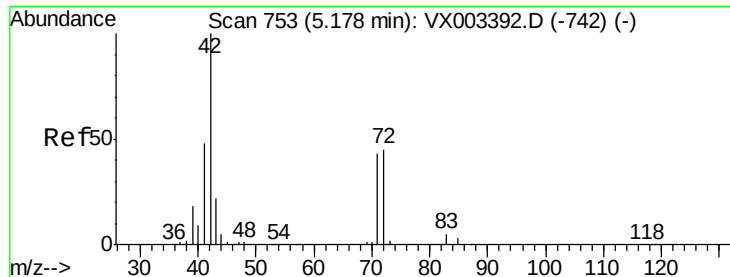


#28

Bromochloromethane
Concen: 4.88 ug/l
RT: 5.02 min Scan# 727
Delta R.T. -0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	85.1	61.2	91.8





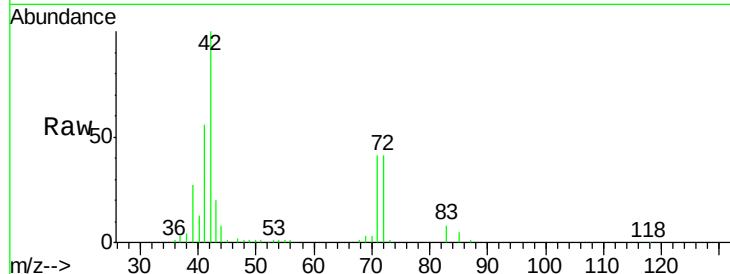
#29
Tetrahydrofuran
Concen: 25.84 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

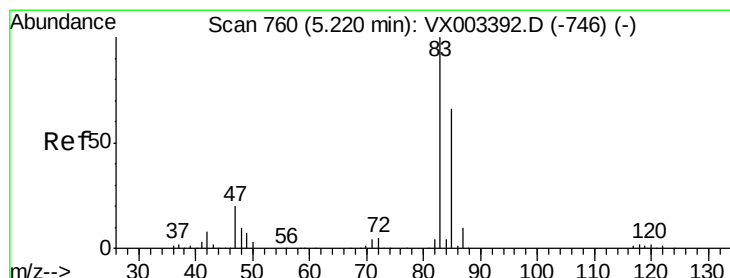
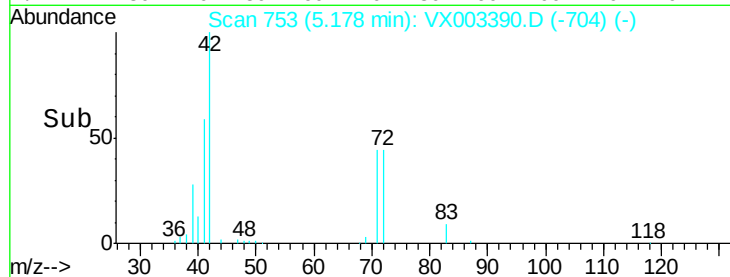
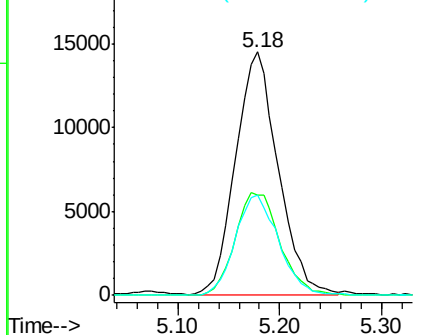
Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	32.0	48.0
71	42.2	30.1	45.1

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM

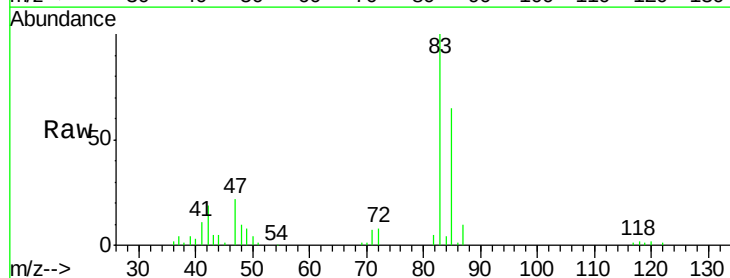


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

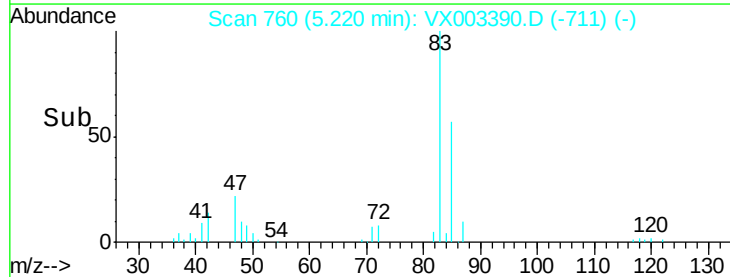
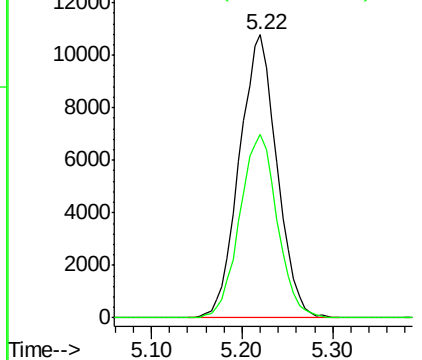


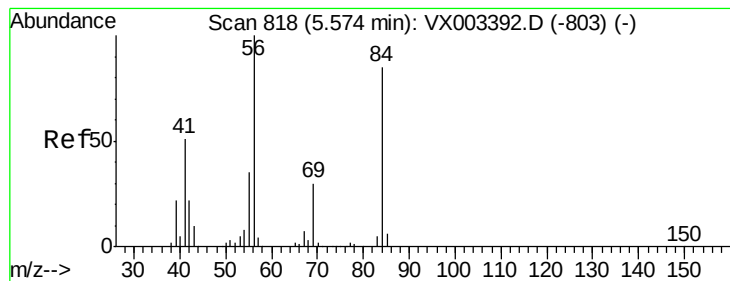
#30
Chloroform
Concen: 4.95 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.4	75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 4.95 ug/l

RT: 5.57 min Scan# 817

Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

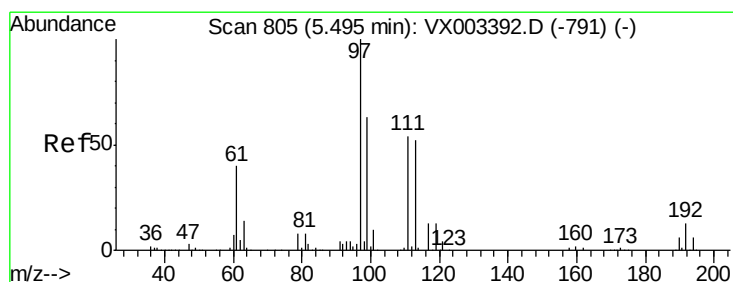
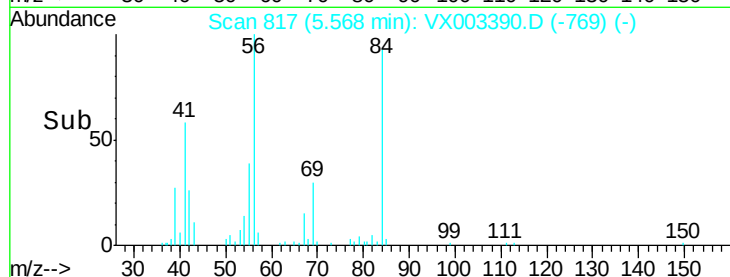
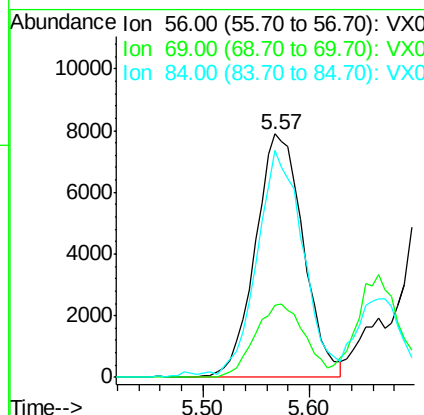
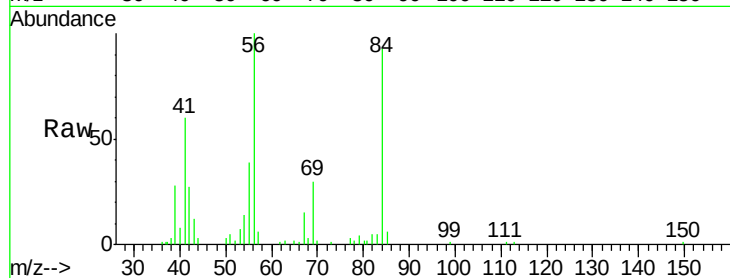
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	24736
Ion Ratio	Lower	Upper	
56	100		
69	29.6	23.7	35.5
84	91.1	64.1	96.1

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#32

1,1,1-Trichloroethane

Concen: 4.99 ug/l

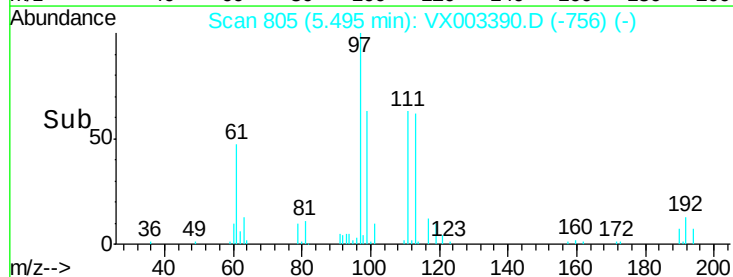
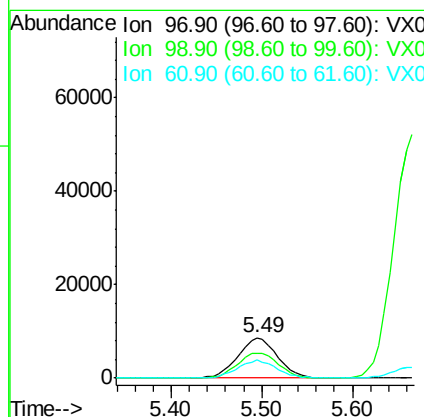
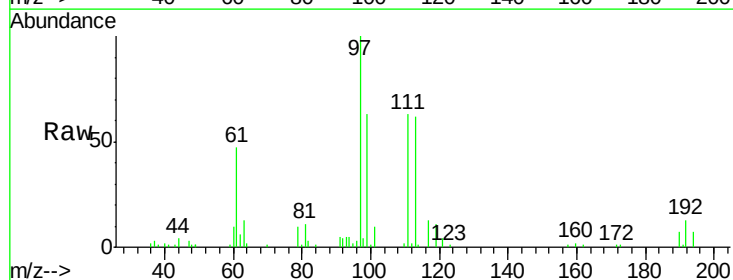
RT: 5.49 min Scan# 805

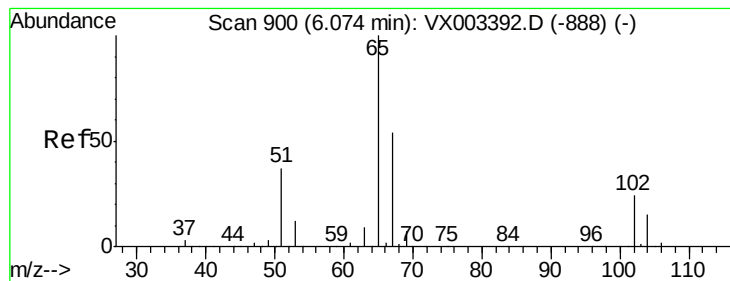
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	97	Resp:	25994
Ion Ratio	Lower	Upper	
97	100		
99	64.4	51.6	77.4
61	43.3	36.4	54.6





#33

1,2-Dichloroethane-d4

Concen: 6.51 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tot Ion: 65 Resp: 22525

Ion Ratio Lower Upper

65 100

67 53.7 0.0 102.6

Instrument :

MSVOA_X

ClientSampleId :

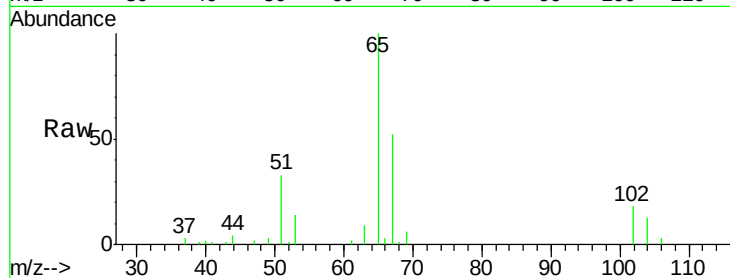
VSTDIC005

Manual Integrations

APPROVED

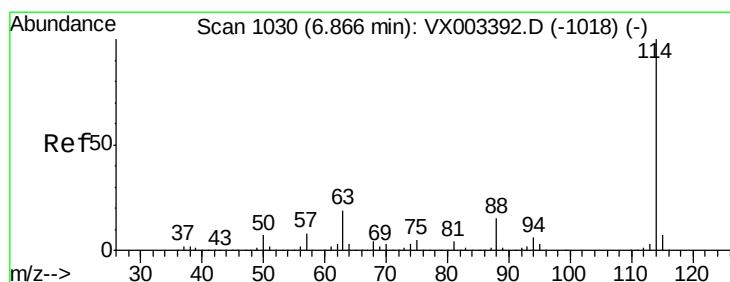
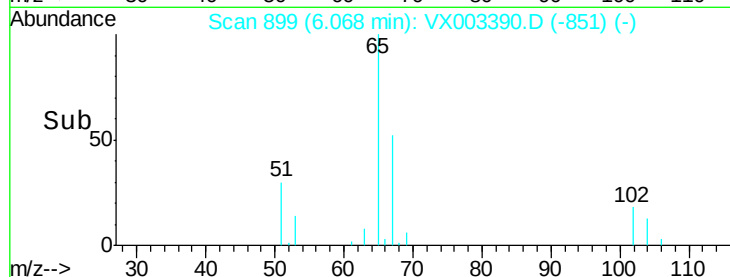
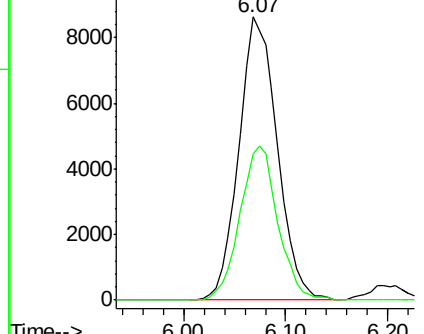
MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

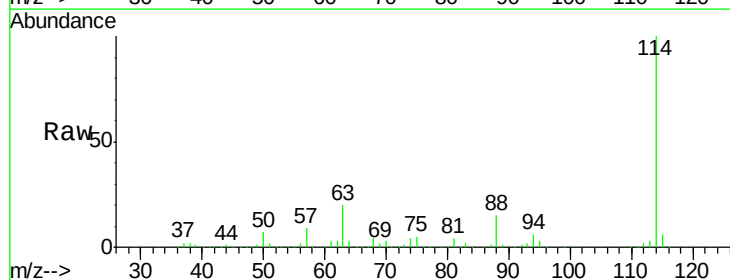
Tgt Ion: 114 Resp: 420362

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

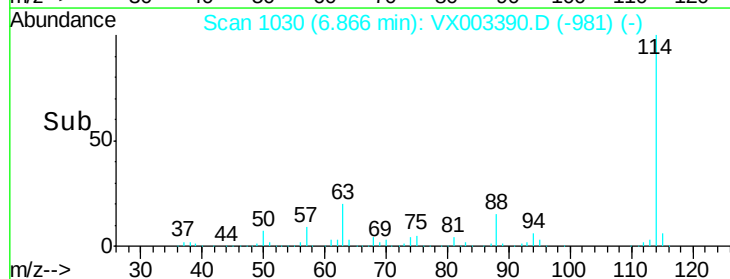
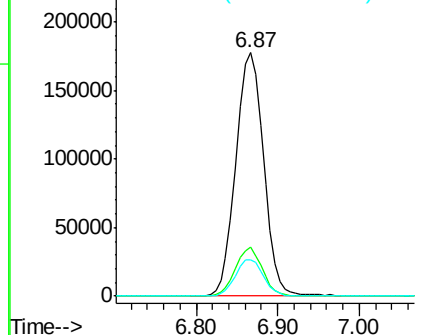
88 15.1 0.0 30.0

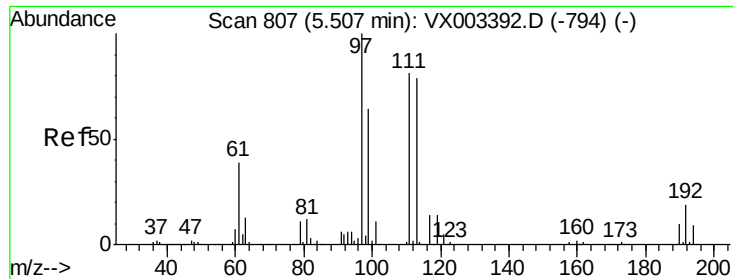


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





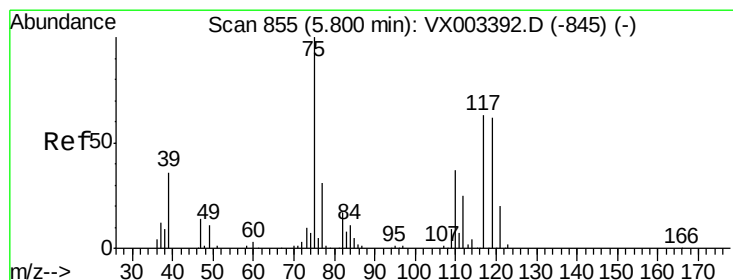
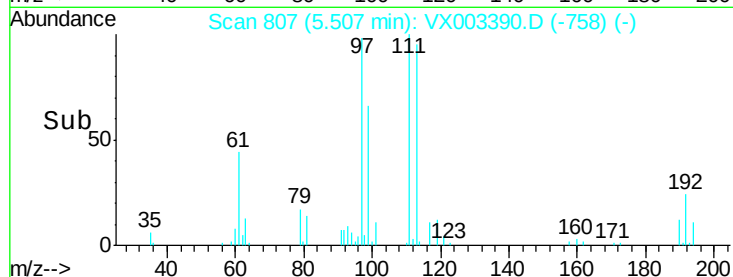
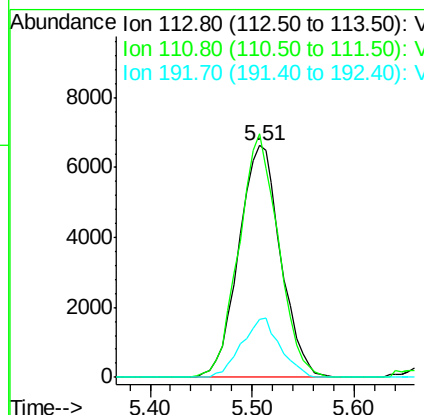
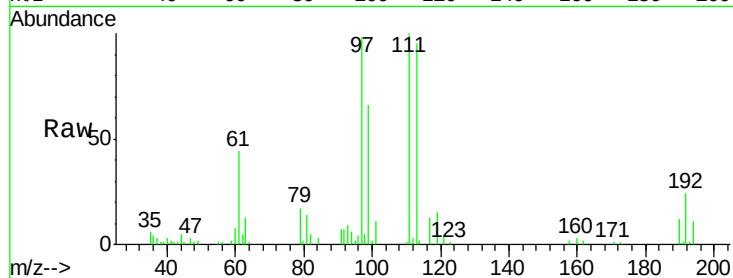
#35
Dibromofluoromethane
Concen: 6.11 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	18919		
111	98.9	81.4	122.0	
192	23.6	19.1	28.7	

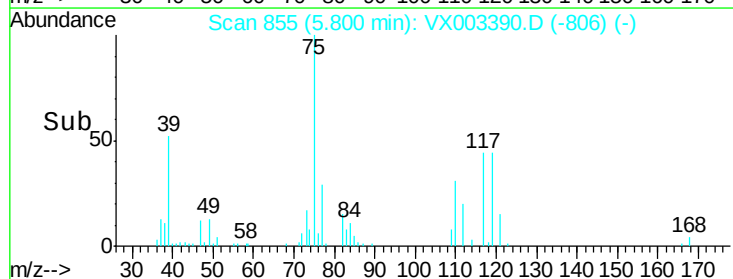
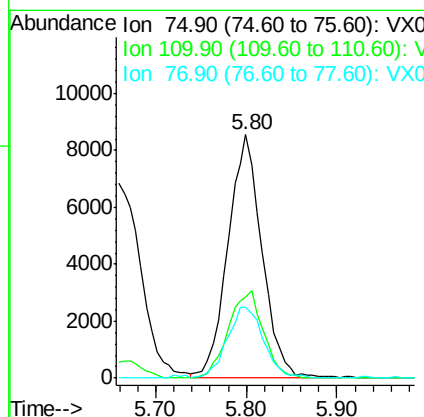
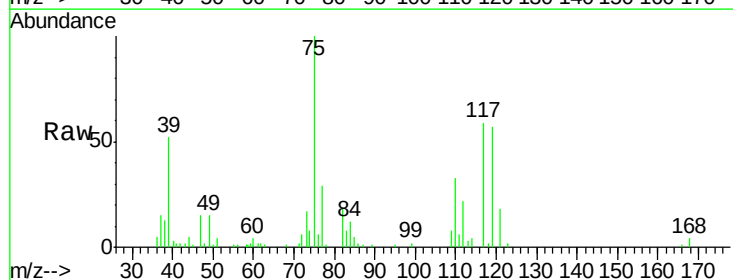
Manual Integrations
APPROVED

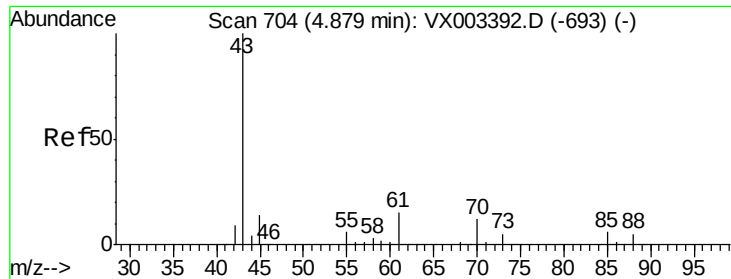
MMDadoda
7/17/2018 1:46:29 PM



#36
1,1-Dichloropropene
Concen: 4.99 ug/l
RT: 5.80 min Scan# 855
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22272		
110	36.7	18.1	54.4	
77	31.3	24.3	36.5	





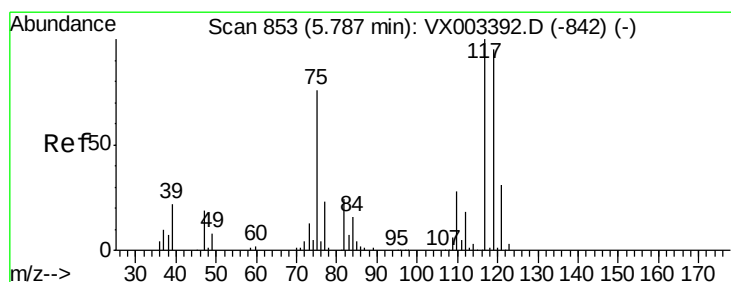
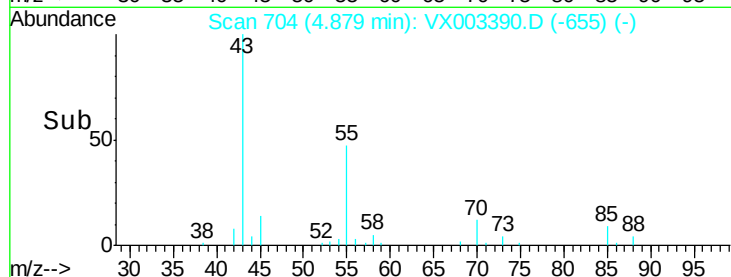
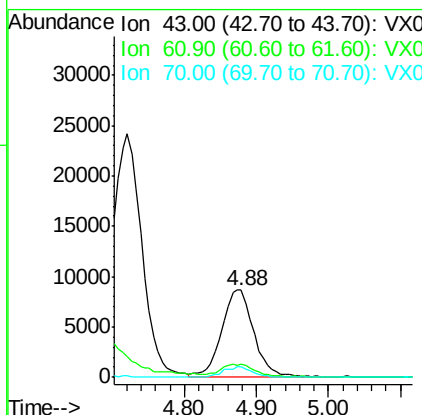
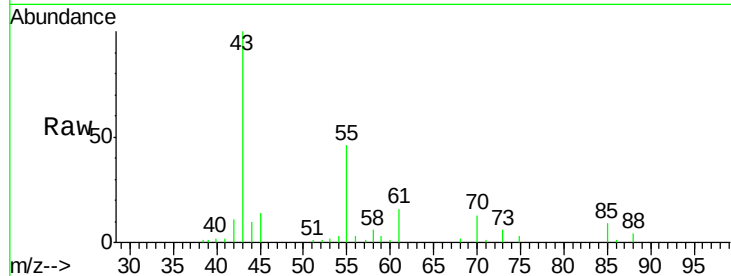
#37
Ethyl Acetate
Concen: 5.57 ug/l
RT: 4.88 min Scan# 704
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.4	15.6
70	10.7	7.6	11.4

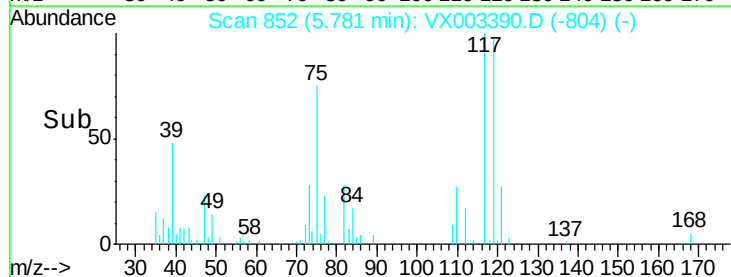
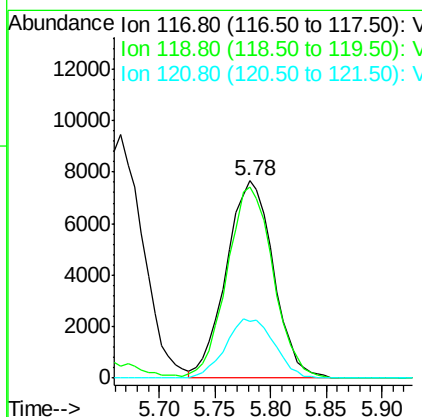
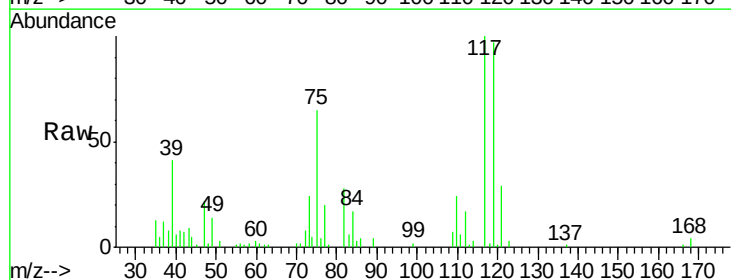
Manual Integrations
APPROVED

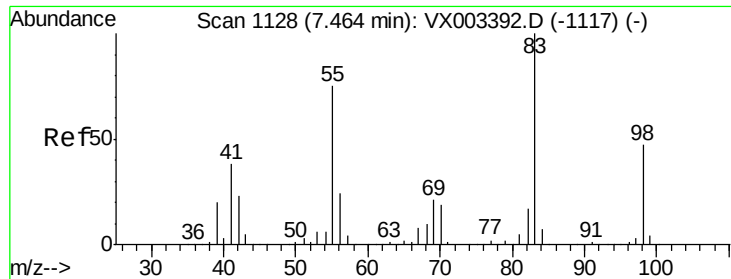
MMDadoda
7/17/2018 1:46:29 PM



#38
Carbon Tetrachloride
Concen: 4.96 ug/l
RT: 5.78 min Scan# 852
Delta R.T. -0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.4	116.0
121	28.7	24.4	36.6





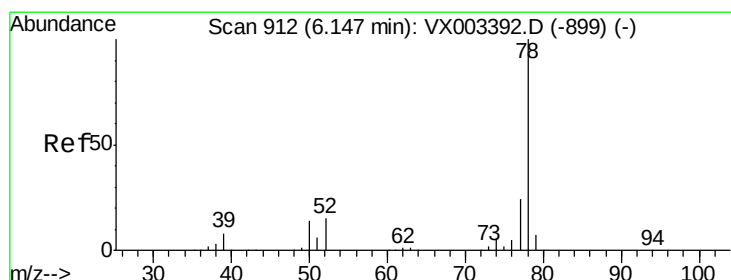
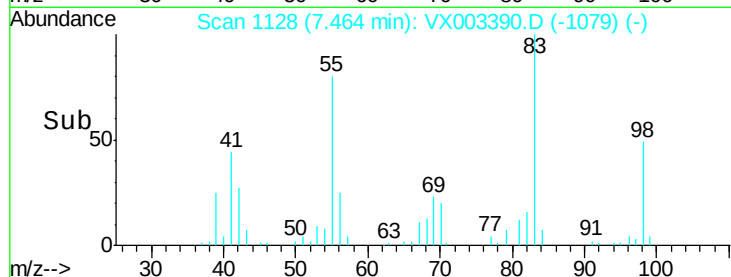
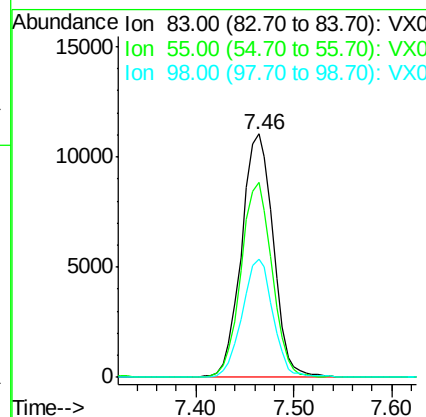
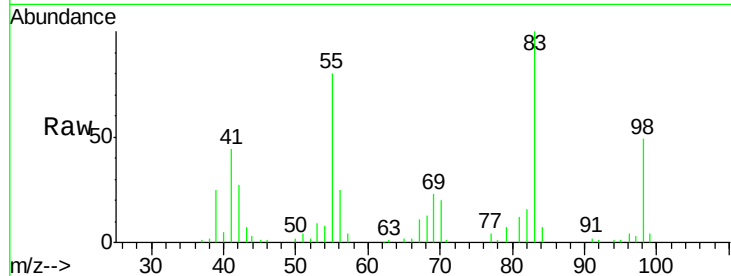
#39
Methylvlcyclohexane
Concen: 4.93 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.0	65.4	98.0
98	48.5	37.4	56.0

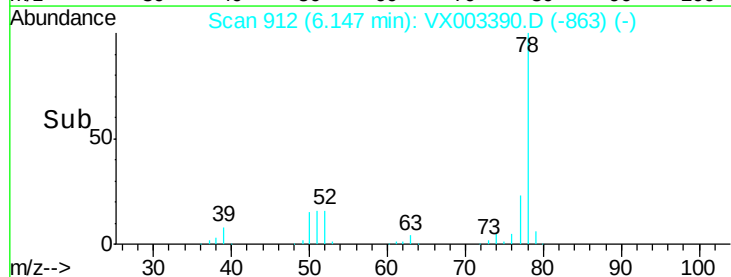
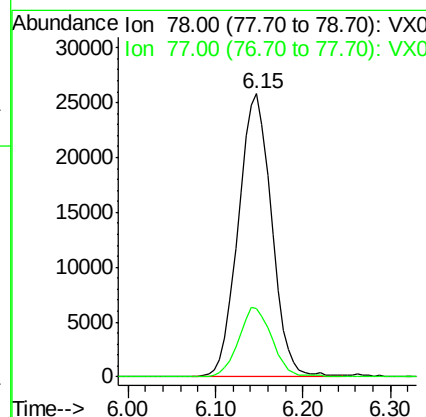
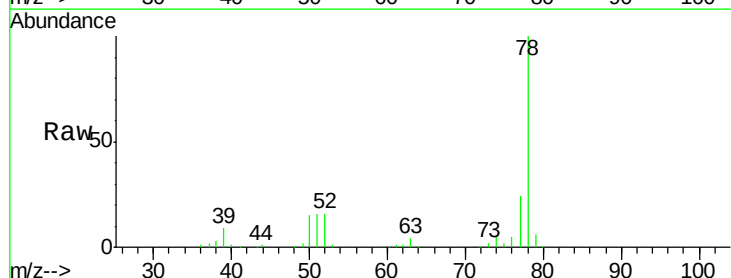
Manual Integrations
APPROVED

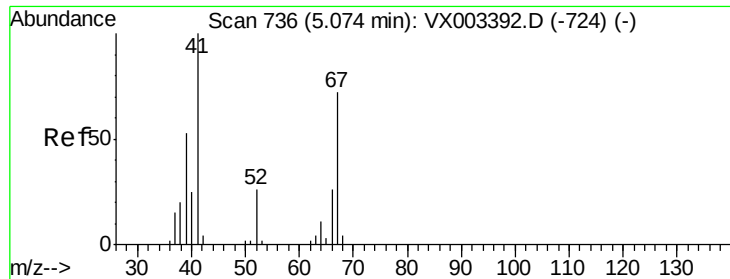
MMDadoda
7/17/2018 1:46:29 PM



#40
Benzene
Concen: 4.90 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7





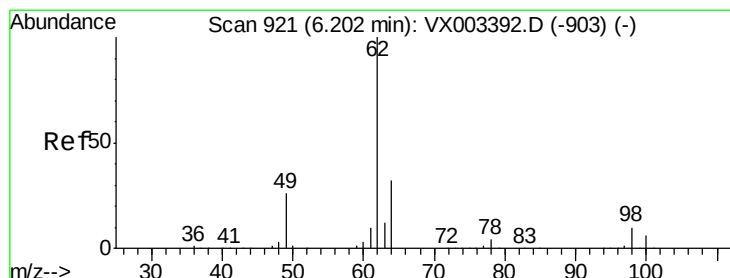
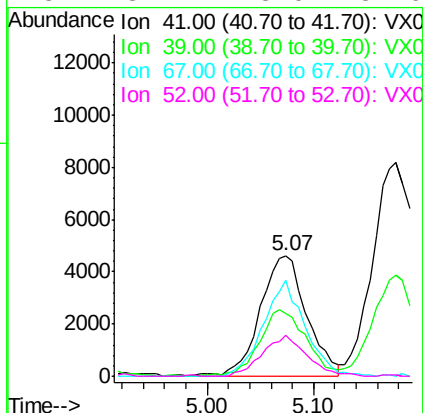
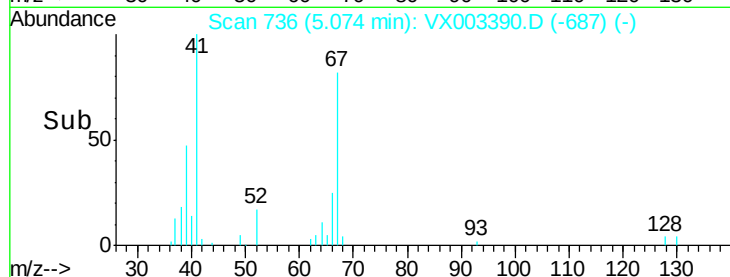
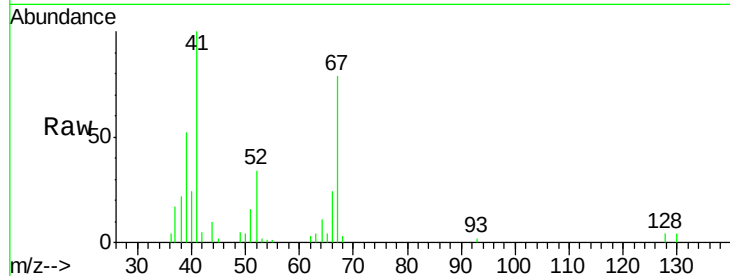
#41
Methacrylonitrile
Concen: 5.00 ug/l
RT: 5.07 min Scan# 736
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	14007
Ion	Ratio	Lower	Upper
41	100		
39	55.3	45.8	68.6
67	71.8	51.3	76.9
52	32.4	23.0	34.6

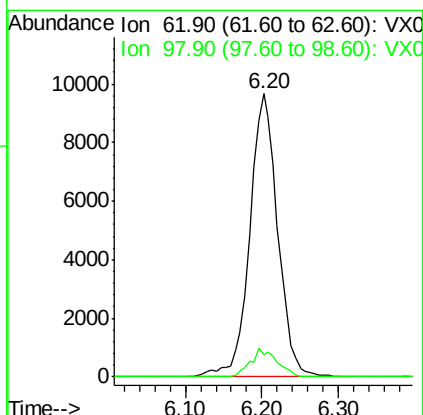
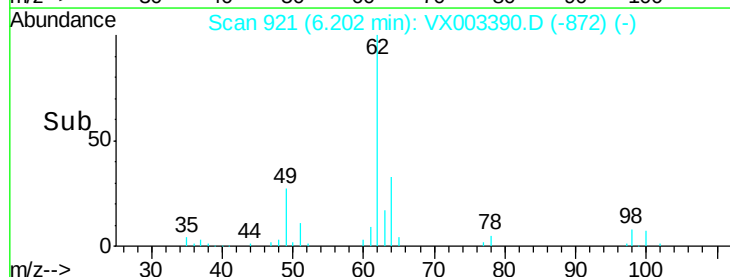
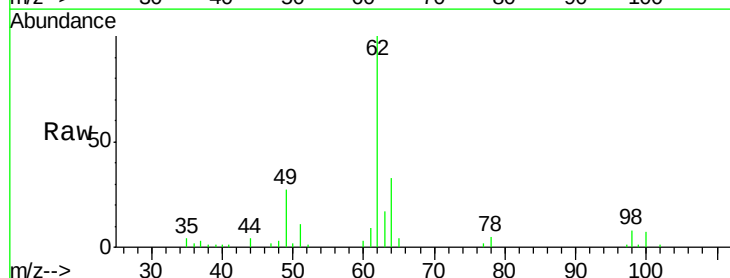
Manual Integrations
APPROVED

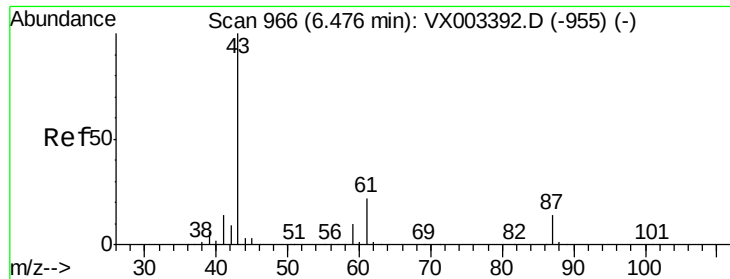
MMDadoda
7/17/2018 1:46:29 PM



#42
1,2-Dichloroethane
Concen: 5.04 ug/l
RT: 6.20 min Scan# 921
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion:	62	Resp:	24611
Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	16.6





#43

Isopropyl Acetate

Concen: 4.93 ug/l

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

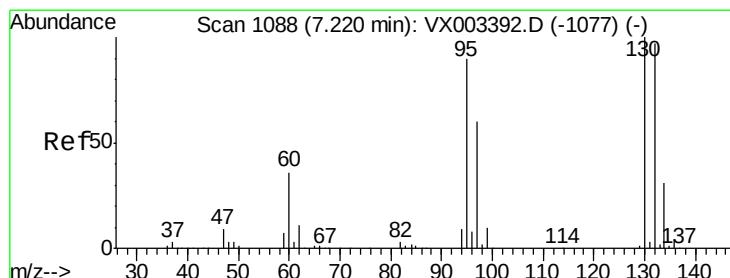
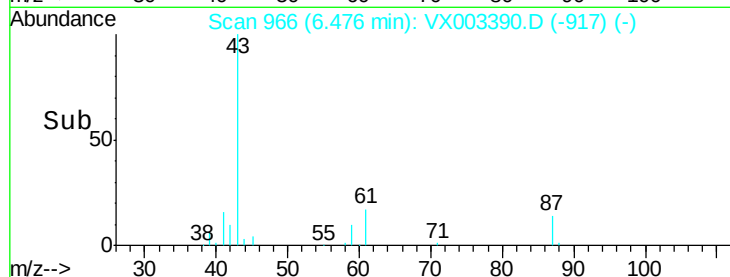
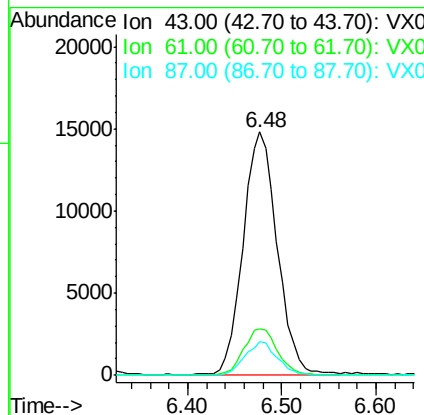
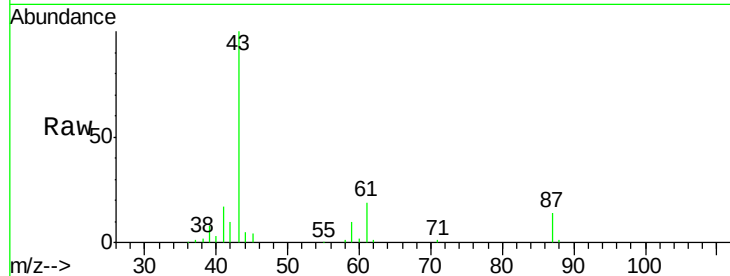
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	37806
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.4	21.6
87	13.0	9.5	14.3

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#44

Trichloroethene

Concen: 5.01 ug/l

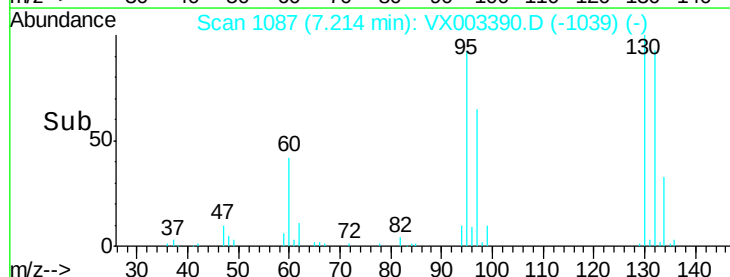
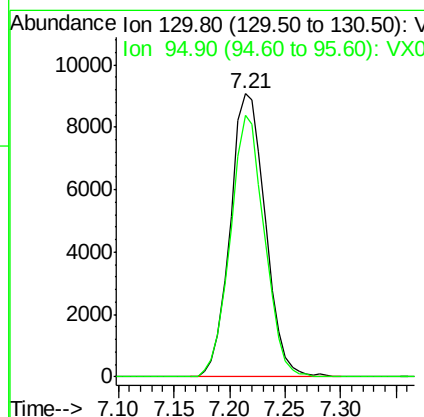
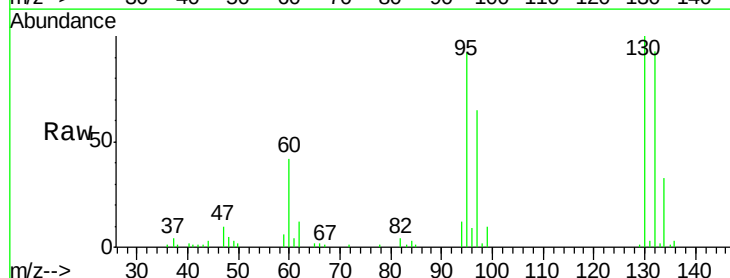
RT: 7.21 min Scan# 1087

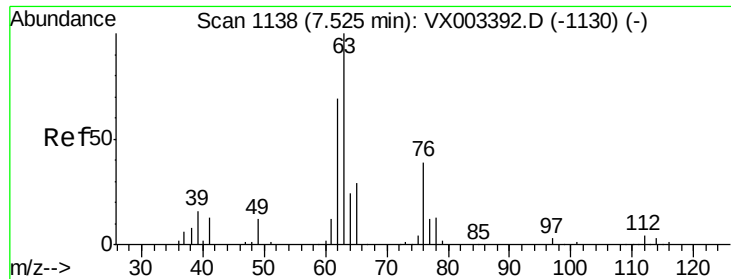
Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	130	Resp:	19850
Ion	Ratio	Lower	Upper
130	100		
95	92.5	0.0	185.4





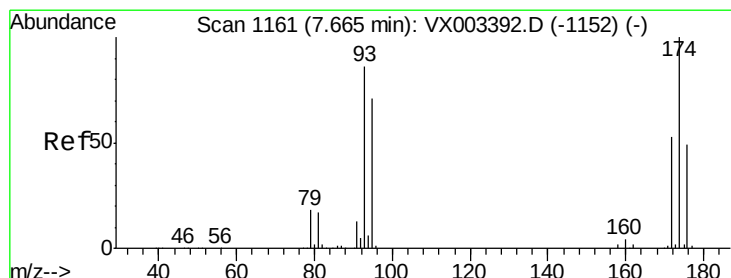
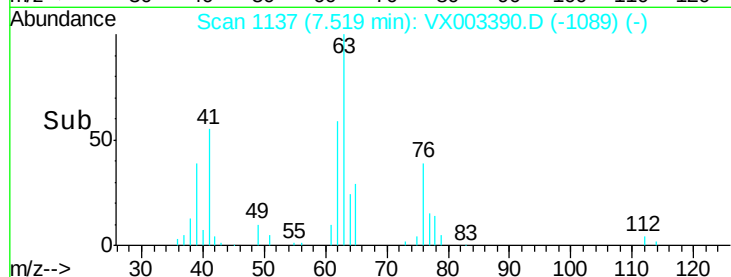
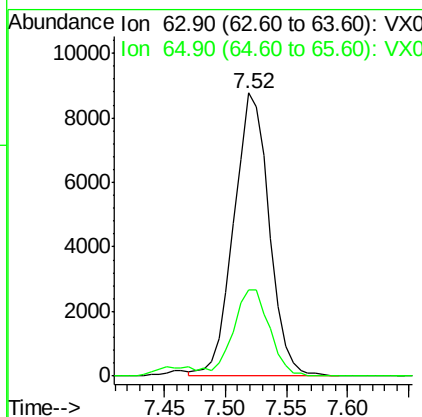
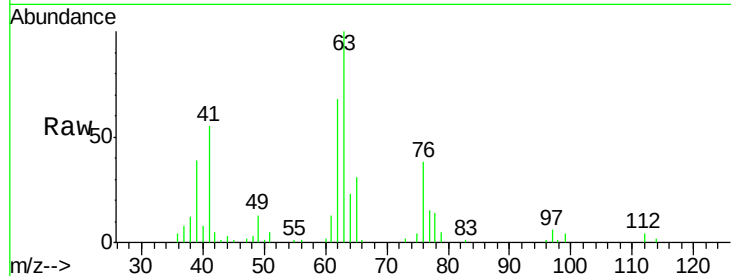
#45
 1,2-Dichloropropane
 Concen: 4.74 ug/l
 RT: 7.52 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 17600
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.7 37.1

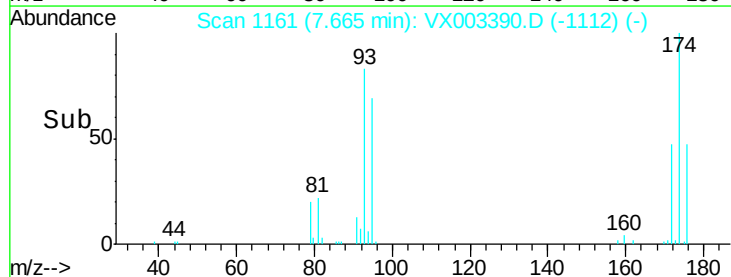
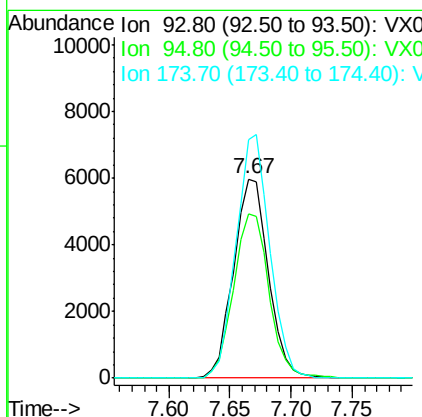
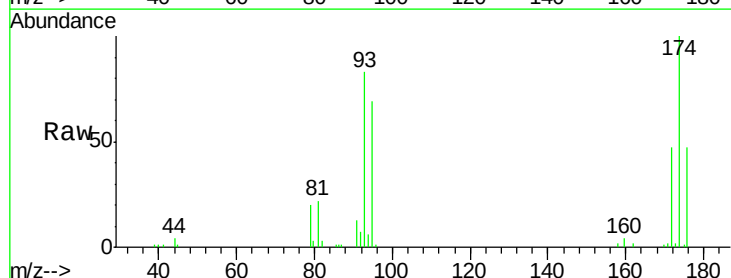
Manual Integrations
 APPROVED

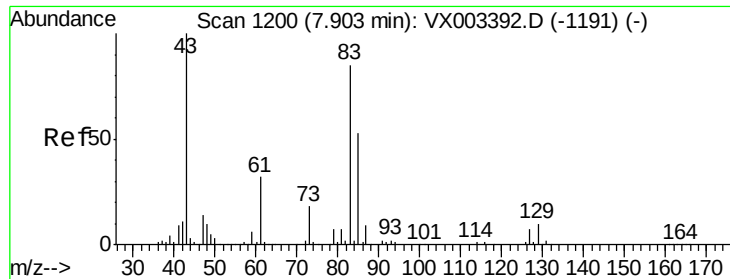
MMDadoda
 7/17/2018 1:46:29 PM



#46
 Dibromomethane
 Concen: 4.94 ug/l
 RT: 7.67 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Tgt Ion: 93 Resp: 11791
 Ion Ratio Lower Upper
 93 100
 95 84.2 65.9 98.9
 174 118.1 92.4 138.6





#47

Bromodichloromethane

Concen: 4.61 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

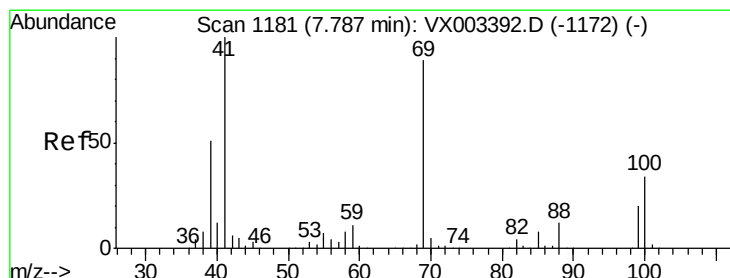
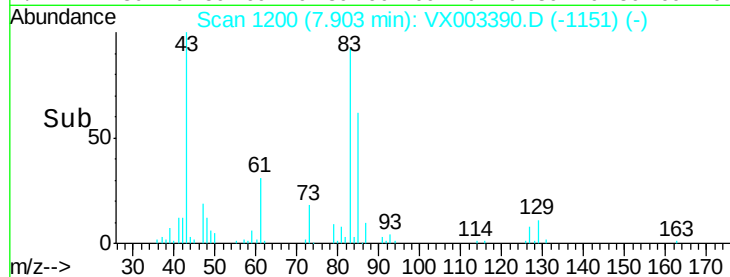
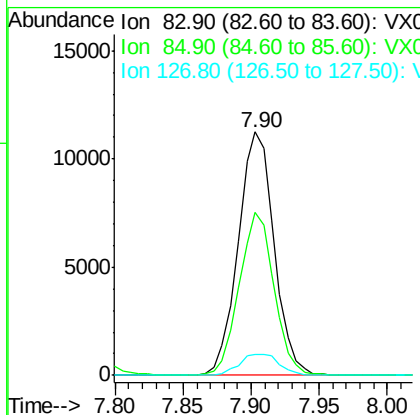
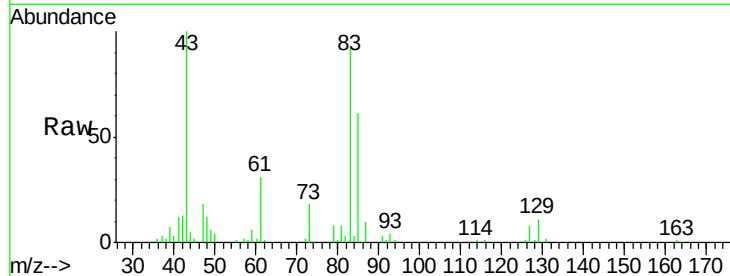
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	20738
Ion	Ratio	Lower	Upper
83	100		
85	66.8	50.3	75.5
127	8.7	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#48

Methyl methacrylate

Concen: 4.64 ug/l

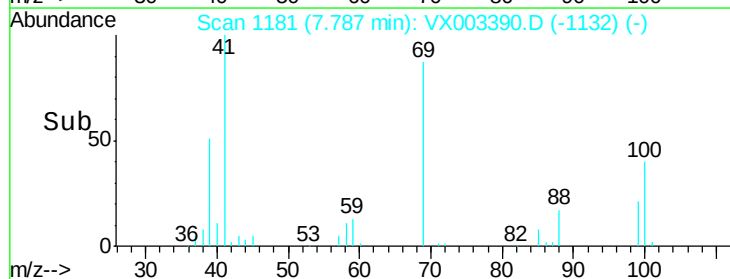
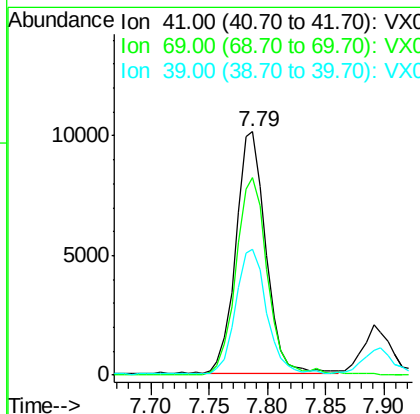
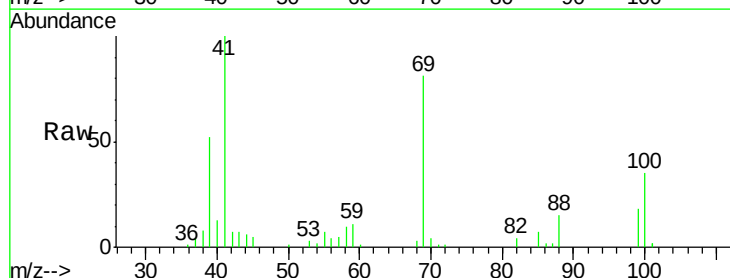
RT: 7.79 min Scan# 1181

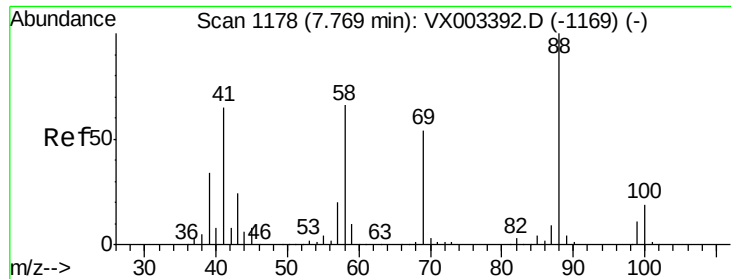
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	41	Resp:	18162
Ion	Ratio	Lower	Upper
41	100		
69	86.2	59.1	88.7
39	53.3	48.9	73.3





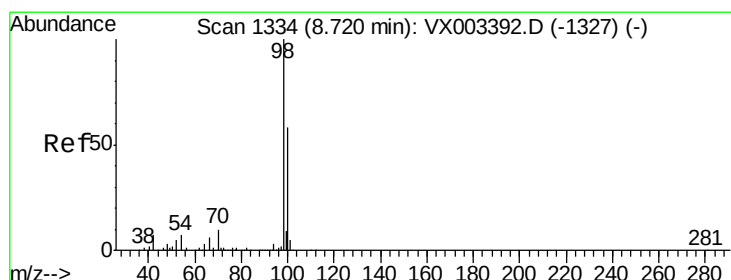
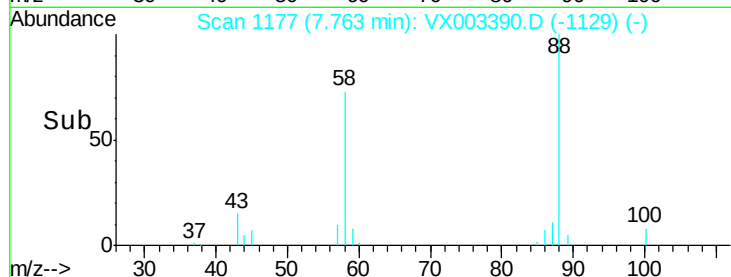
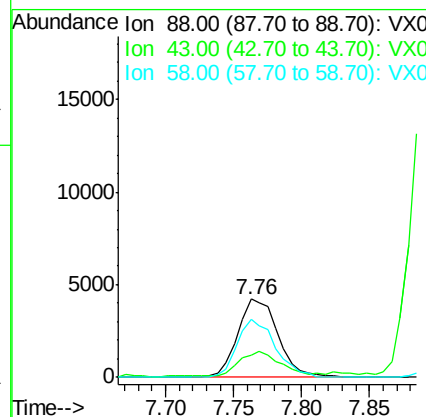
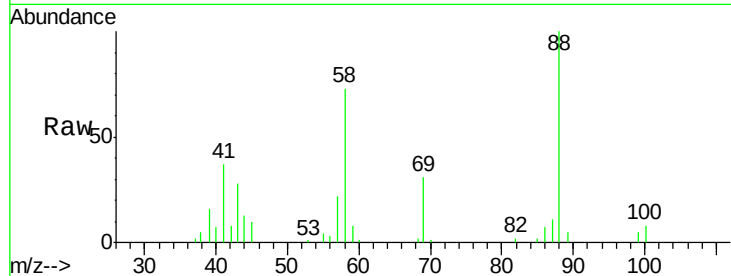
#49
1,4-Dioxane
Concen: 102.33 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. -0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.5	29.8	44.6
58	70.3	57.1	85.7

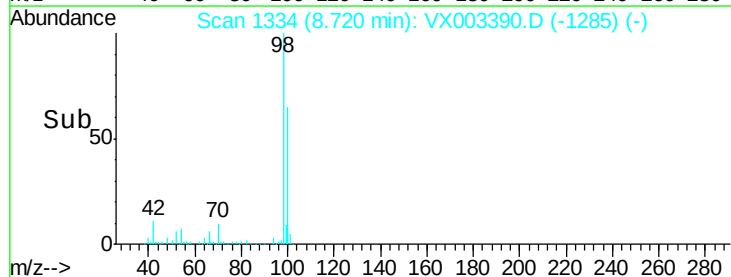
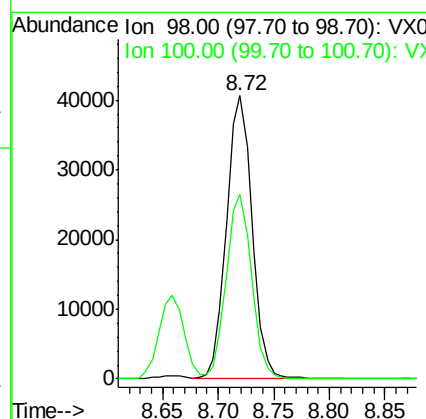
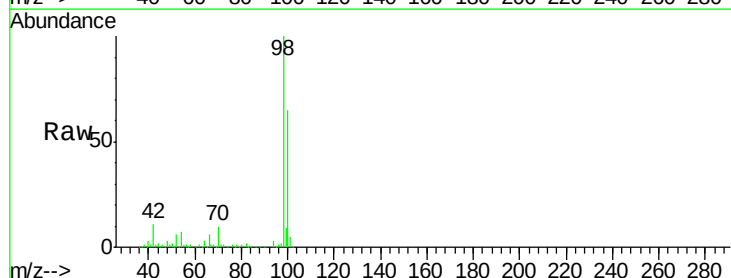
Manual Integrations
APPROVED

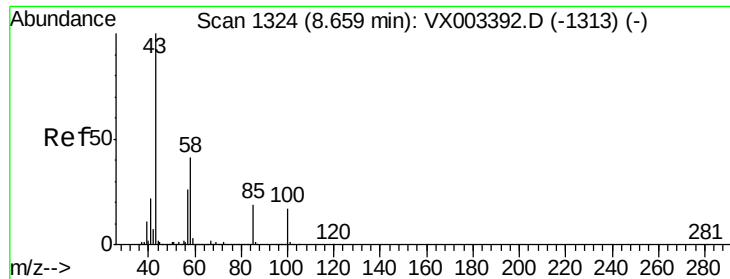
MMDadoda
7/17/2018 1:46:29 PM



#50
Toluene-d8
Concen: 5.86 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	50.9	76.3





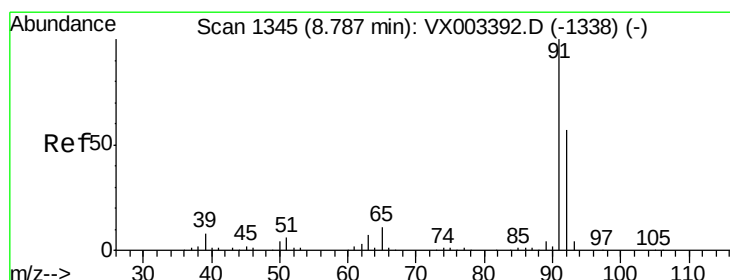
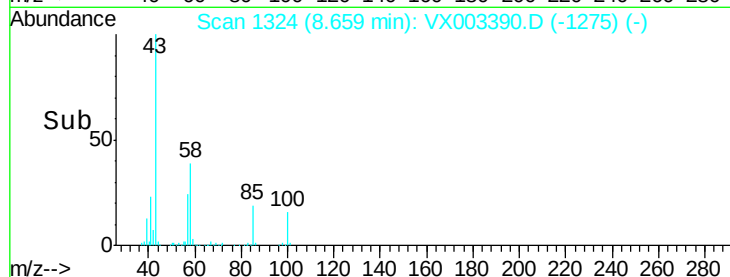
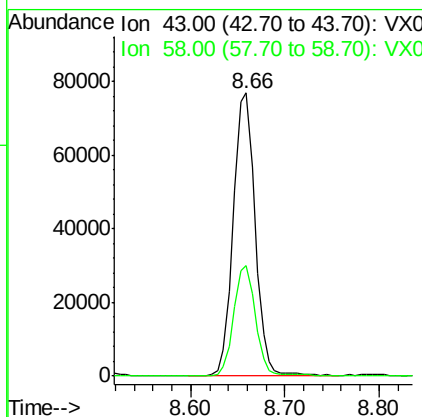
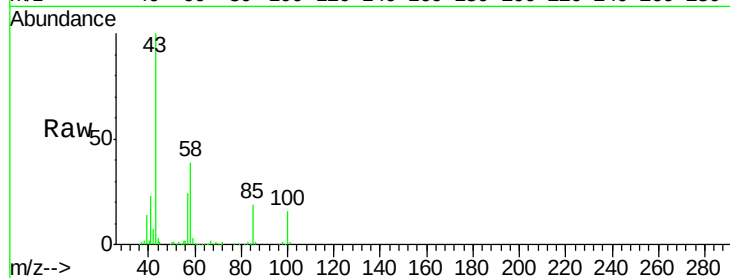
#51
4-Methyl-2-Pentanone
Concen: 24.78 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.4	28.6	42.8

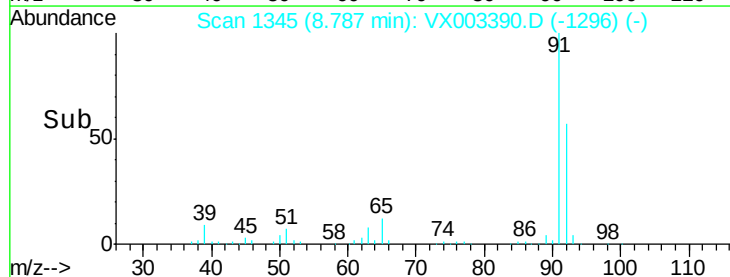
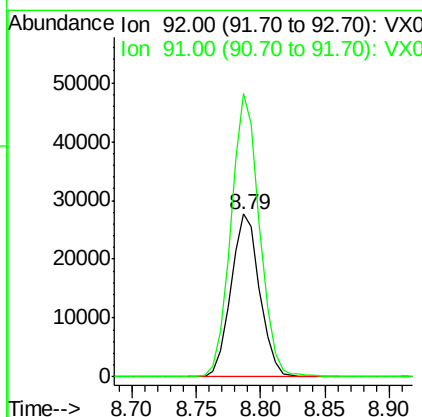
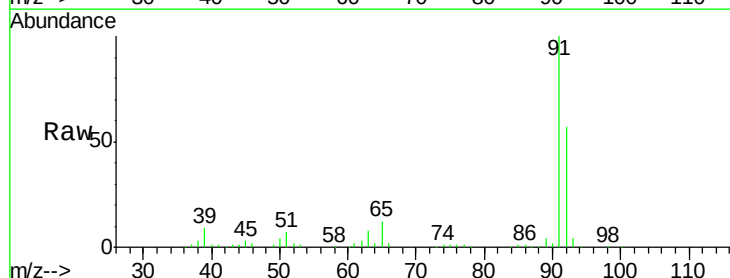
Manual Integrations
APPROVED

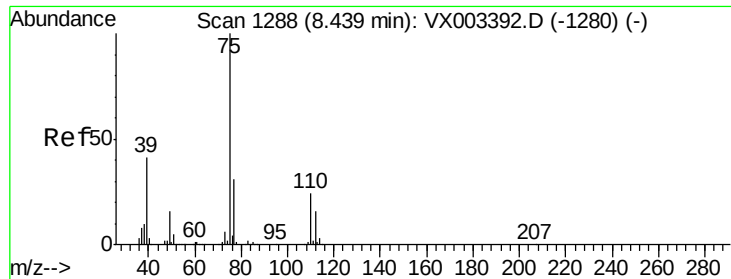
MMDadoda
7/17/2018 1:46:29 PM



#52
Toluene
Concen: 4.87 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.3	140.4	210.6





#53

t-1,3-Dichloropropene

Concen: 4.54 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 23966

Ion Ratio Lower Upper

75 100

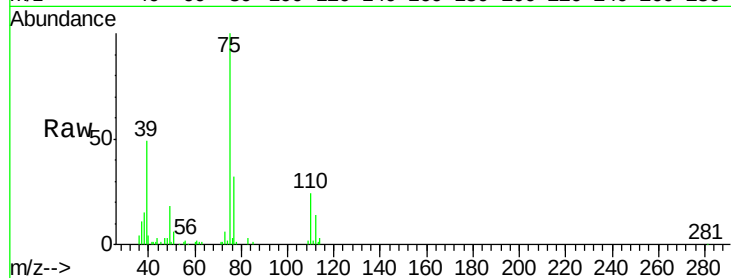
77 32.3 25.4 38.2

Manual Integrations

APPROVED

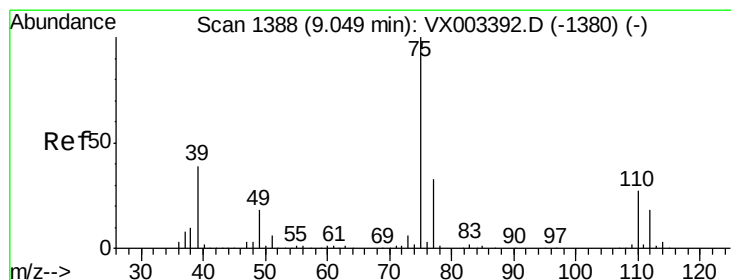
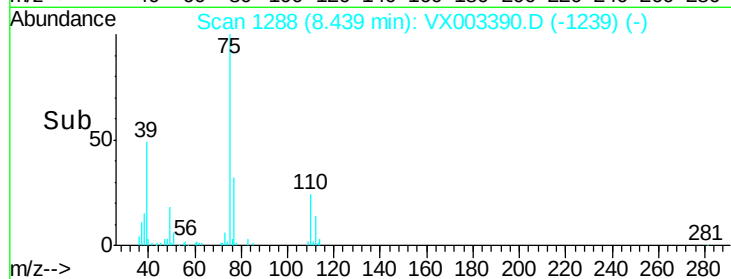
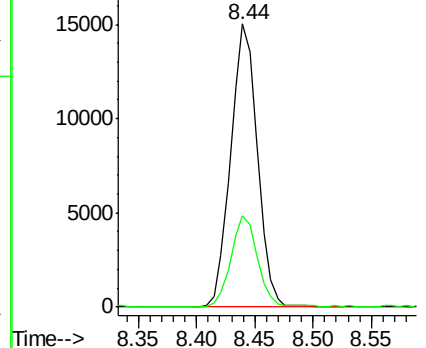
MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 4.53 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

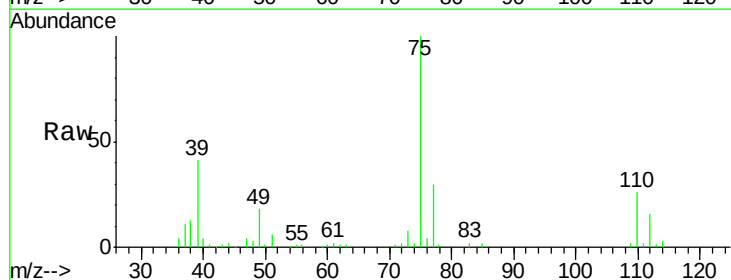
Tgt Ion: 75 Resp: 21839

Ion Ratio Lower Upper

75 100

77 30.4 24.8 37.2

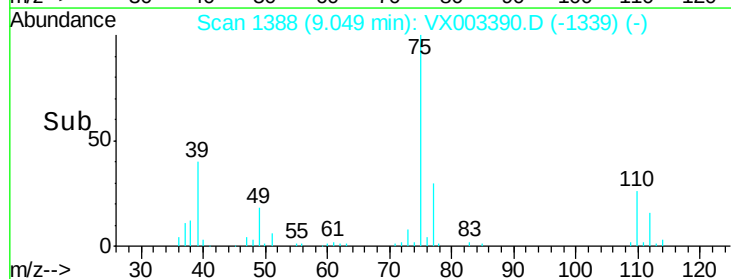
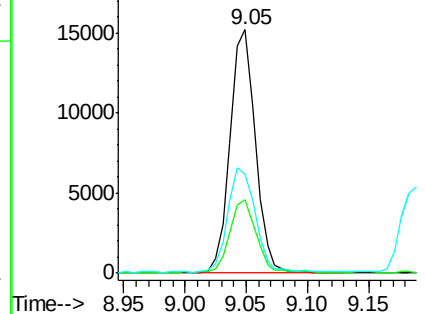
39 40.5 42.4 63.6#

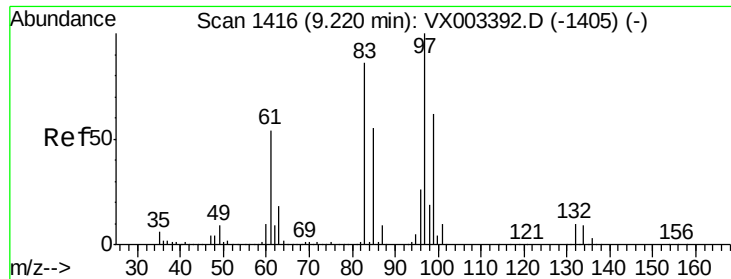


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





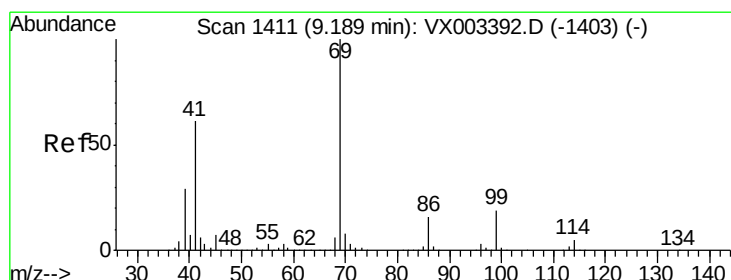
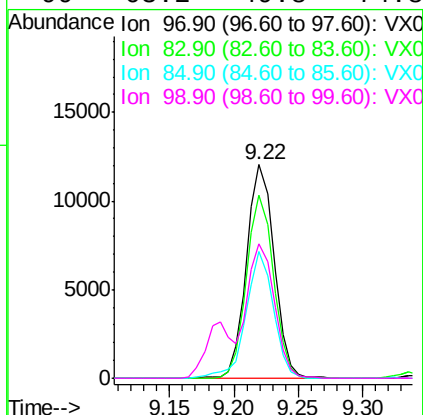
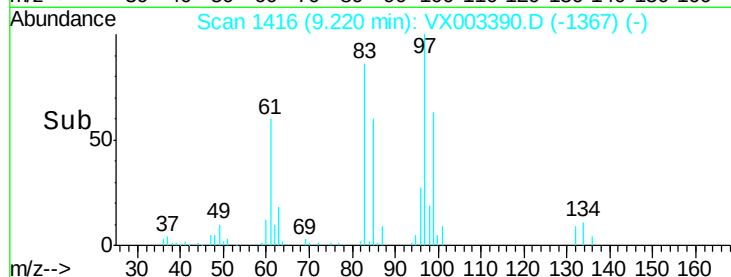
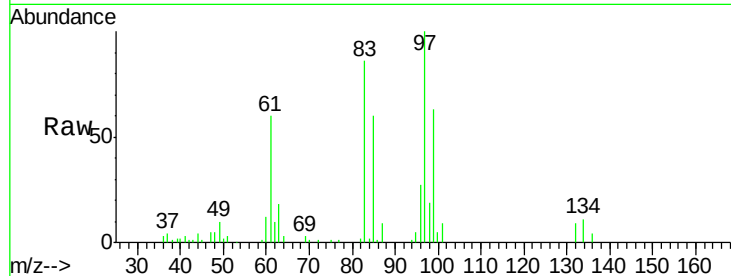
#55
1,1,2-Trichloroethane
Concen: 4.83 ug/l
RT: 9.22 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:	97	Resp:	17868
Ion	Ratio	Lower	Upper
97	100		
83	85.7	70.2	105.2
85	59.6	44.9	67.3
99	63.2	49.8	74.8

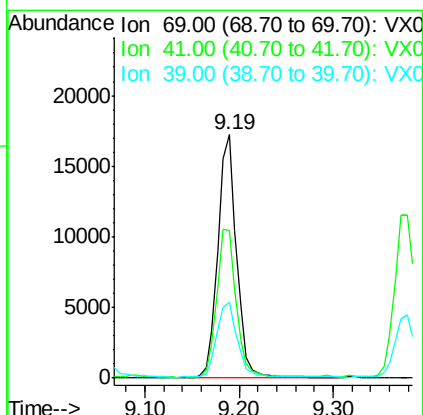
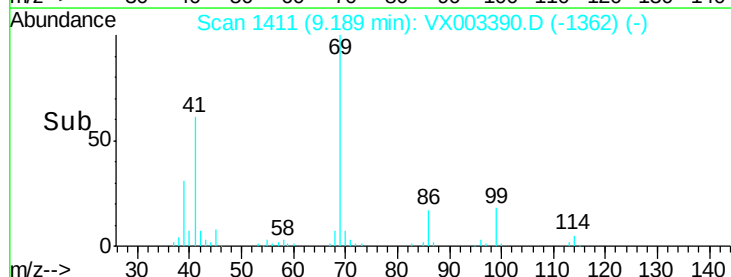
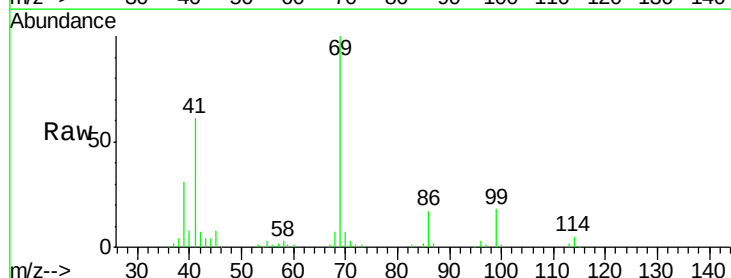
Manual Integrations
APPROVED

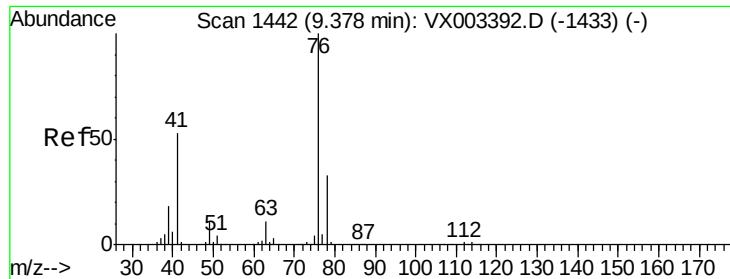
MMDadoda
7/17/2018 1:46:29 PM



#56
Ethyl methacrylate
Concen: 4.53 ug/l
RT: 9.19 min Scan# 1411
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion:	69	Resp:	23913
Ion	Ratio	Lower	Upper
69	100		
41	64.1	60.3	90.5
39	33.8	35.8	53.8#





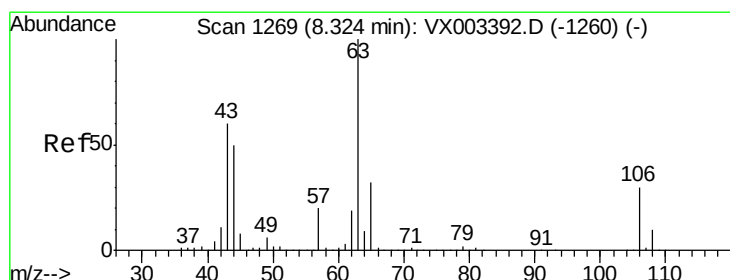
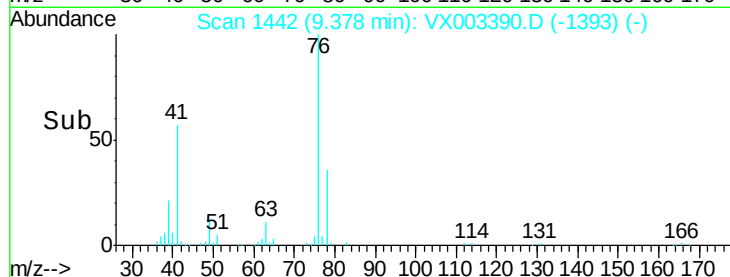
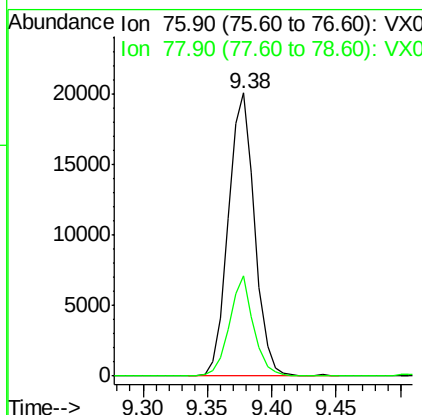
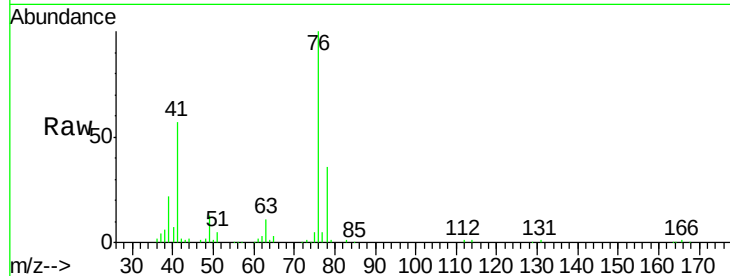
#57
 1,3-Dichloropropane
 Concen: 4.79 ug/l
 RT: 9.38 min Scan# 1442
 Delta R.T. 0.00 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.6

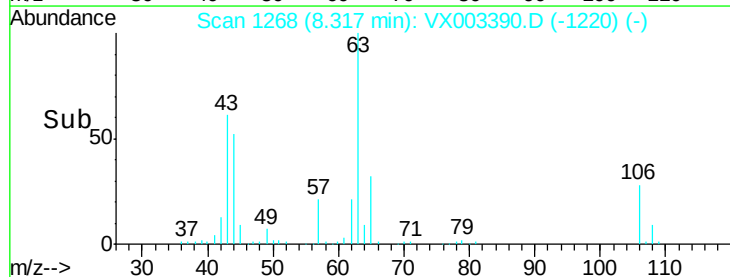
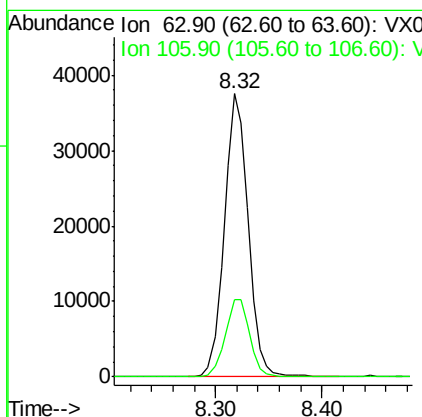
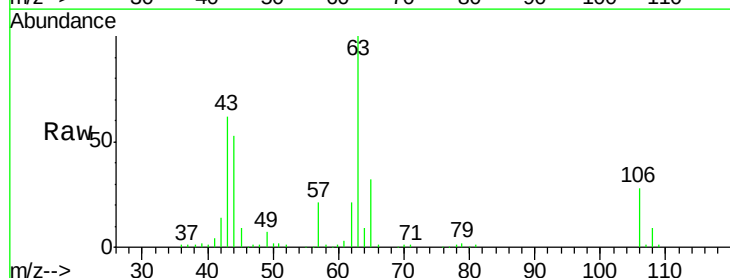
Manual Integrations
 APPROVED

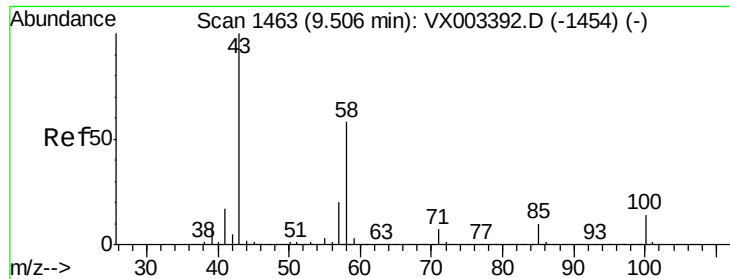
MMDadoda
 7/17/2018 1:46:29 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 22.84 ug/l
 RT: 8.32 min Scan# 1268
 Delta R.T. -0.01 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.3	21.8	32.8





#59

2-Hexanone

Concen: 25.25 ug/l

RT: 9.50 min Scan# 1462

Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 93370

Ion Ratio Lower Upper

43 100

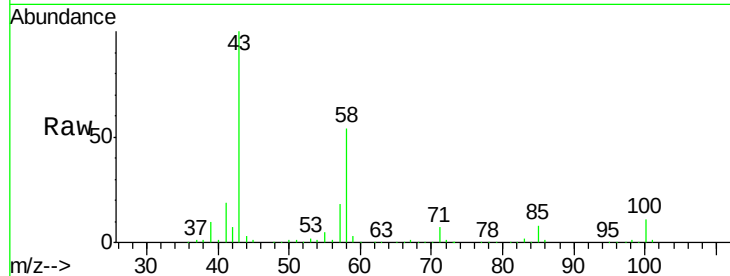
58 53.6 24.6 73.6

Manual Integrations

APPROVED

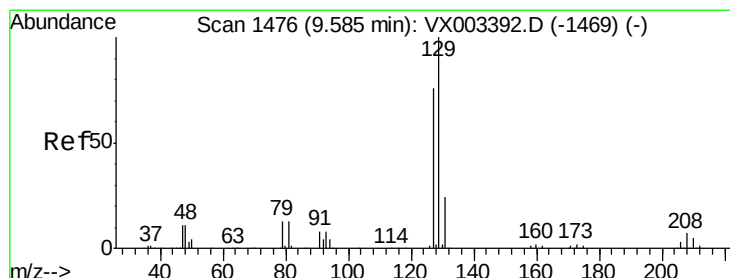
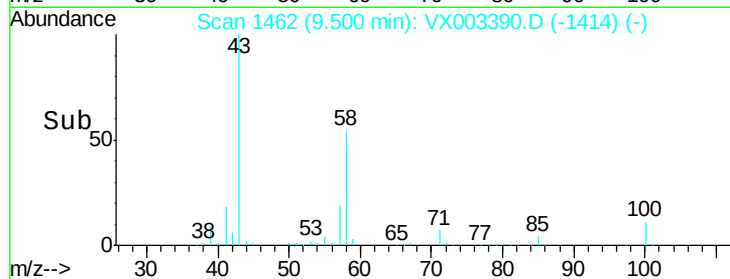
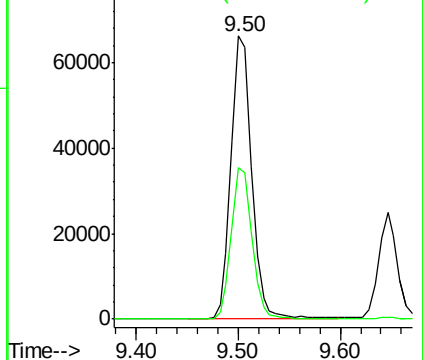
MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 43.00 (42.70 to 43.70): VX003390.D (-1414) (-)

Ion 58.00 (57.70 to 58.70): VX003390.D (-1414) (-)



#60

Dibromochloromethane

Concen: 4.55 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX003390.D

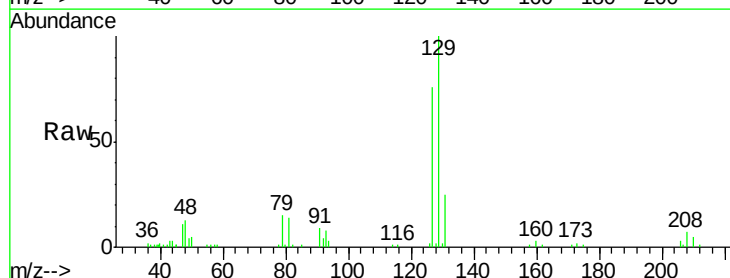
Acq: 16 Jul 2018 10:53

Tgt Ion:129 Resp: 16353

Ion Ratio Lower Upper

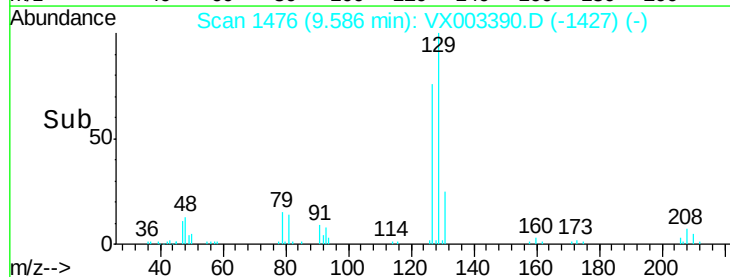
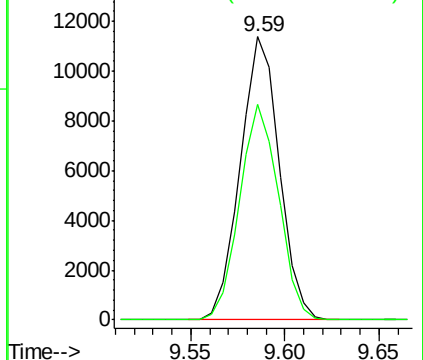
129 100

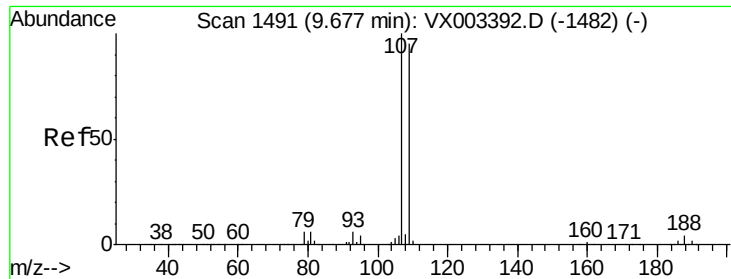
127 76.1 38.5 115.3



Abundance Ion 128.80 (128.50 to 129.50): VX003390.D (-1427) (-)

Ion 126.80 (126.50 to 127.50): VX003390.D (-1427) (-)





#61

1,2-Dibromoethane

Concen: 4.79 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 17862

Ion Ratio Lower Upper

107 100

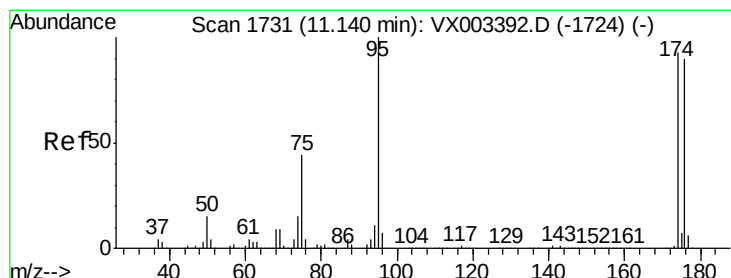
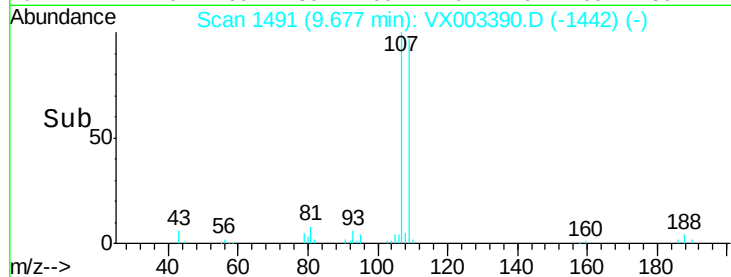
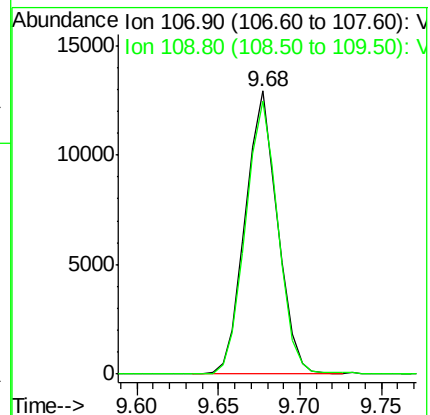
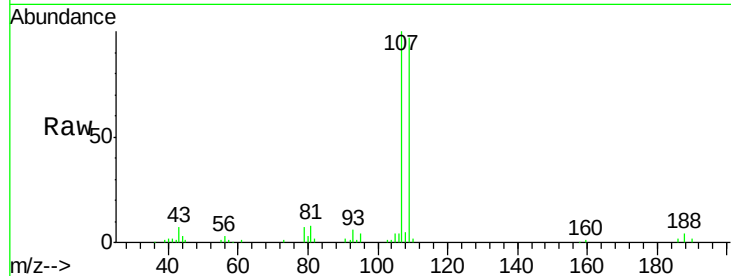
109 97.3 75.3 112.9

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#62

4-Bromofluorobenzene

Concen: 4.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

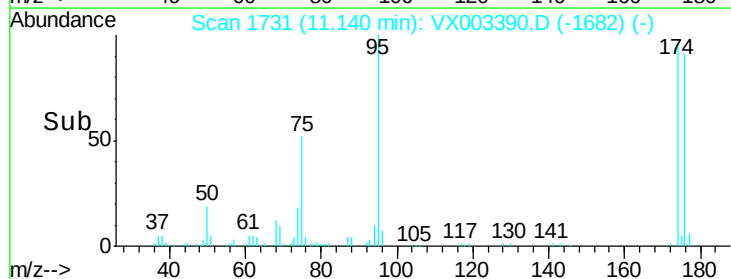
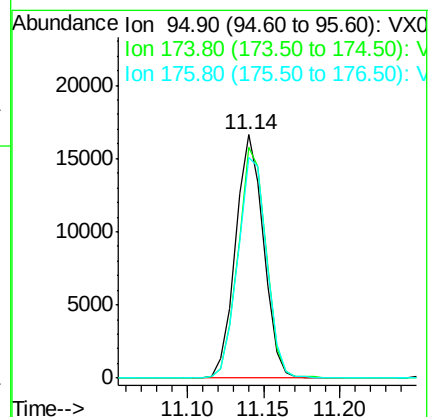
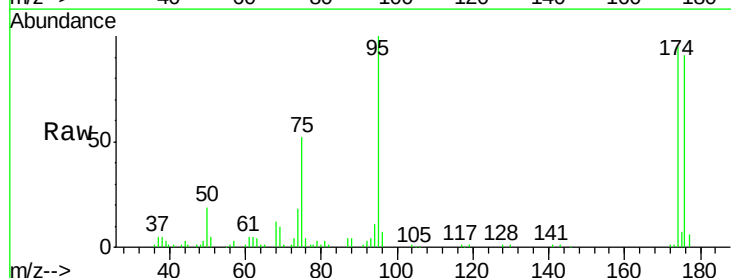
Tgt Ion: 95 Resp: 21033

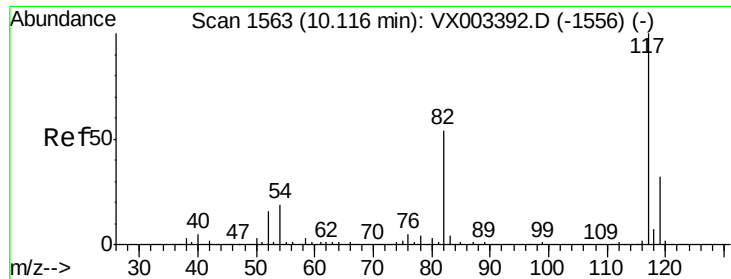
Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.4

176 93.5 0.0 181.0





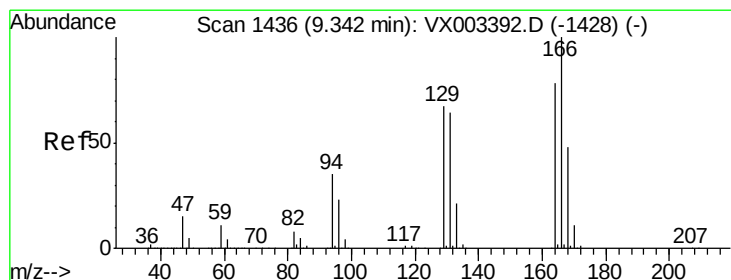
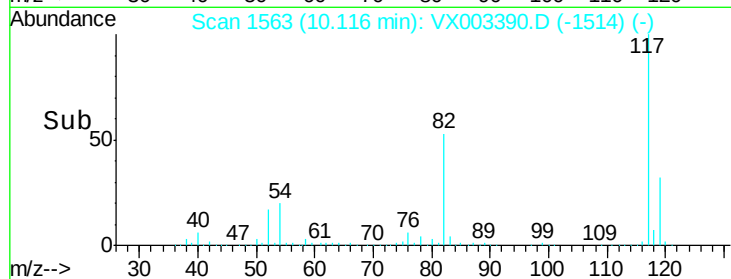
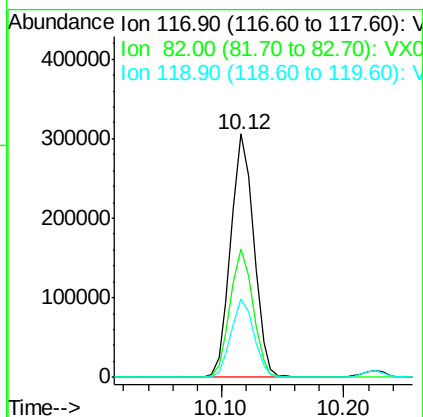
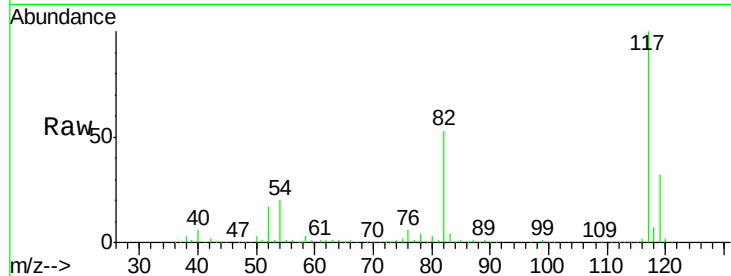
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	45.0	67.4
119	32.4	25.8	38.6

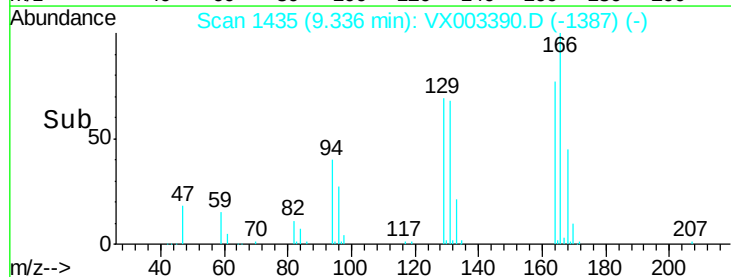
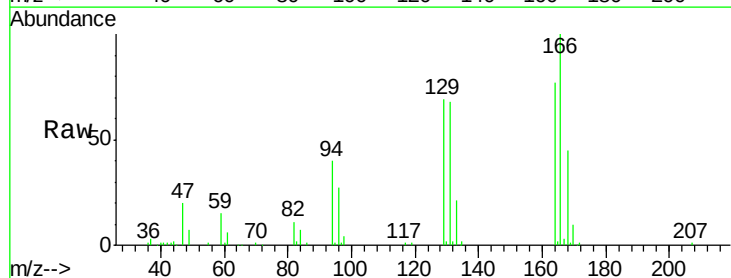
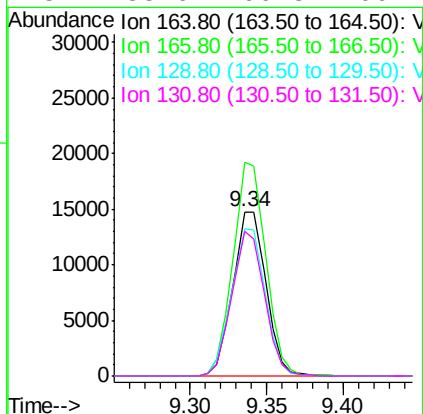
Manual Integrations
APPROVED

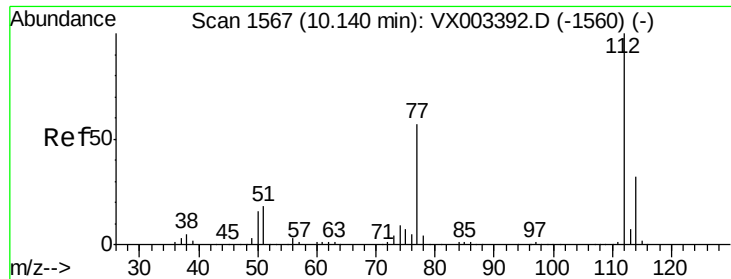
MMDadoda
7/17/2018 1:46:29 PM



#64
Tetrachloroethene
Concen: 5.15 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.3	102.9	154.3
129	89.6	68.6	102.8
131	88.6	66.8	100.2





#65

Chlorobenzene

Concen: 4.83 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 49459

Ion Ratio Lower Upper

112 100

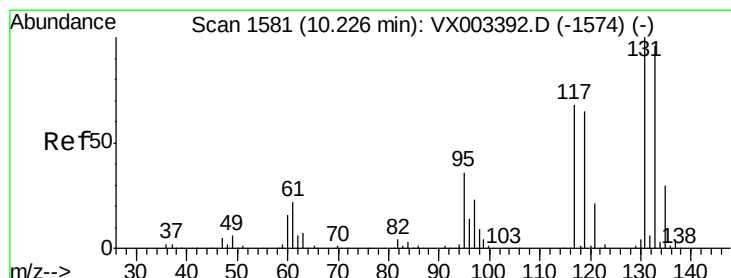
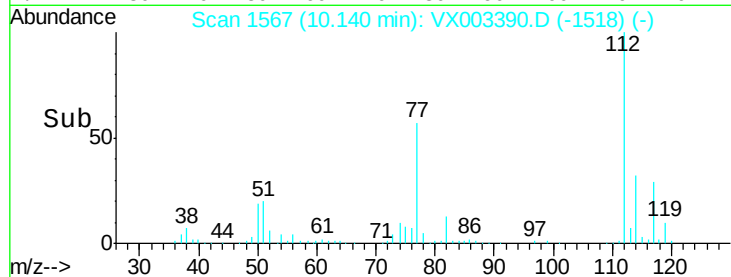
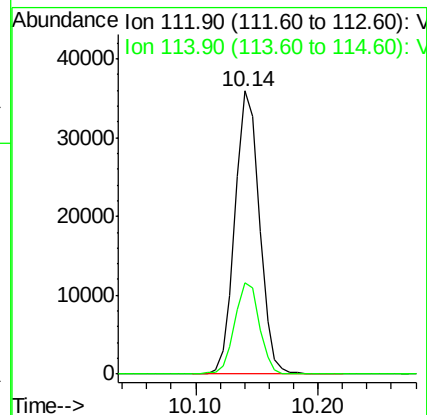
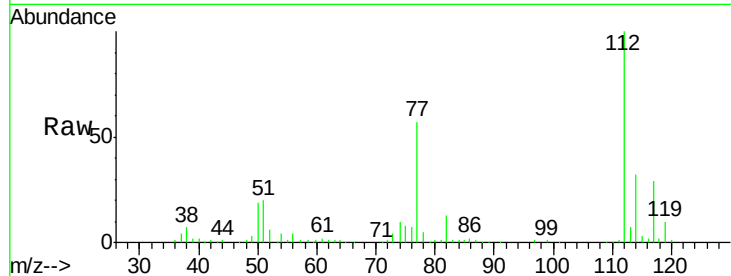
114 32.1 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 4.65 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

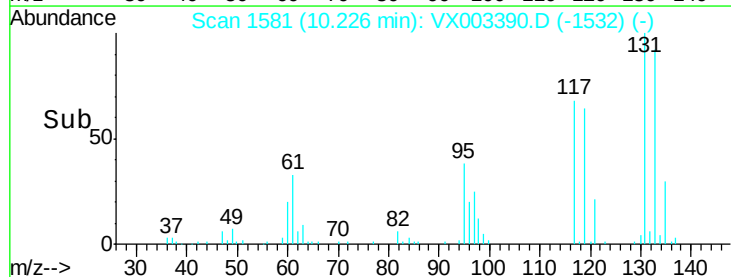
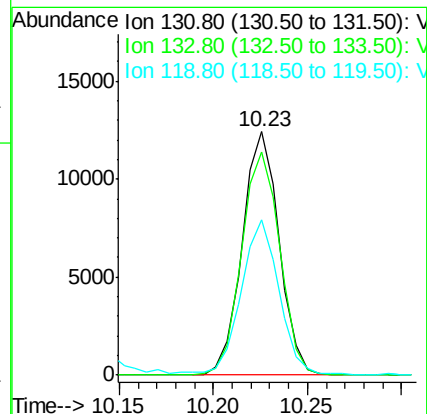
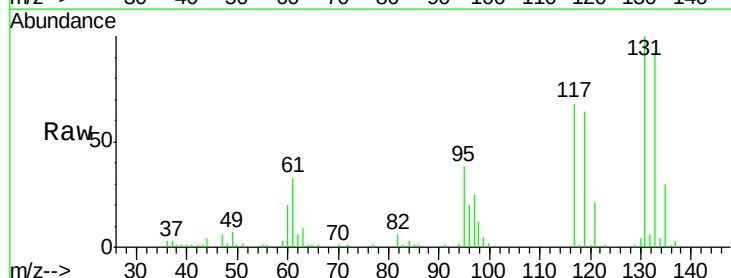
Tgt Ion:131 Resp: 16829

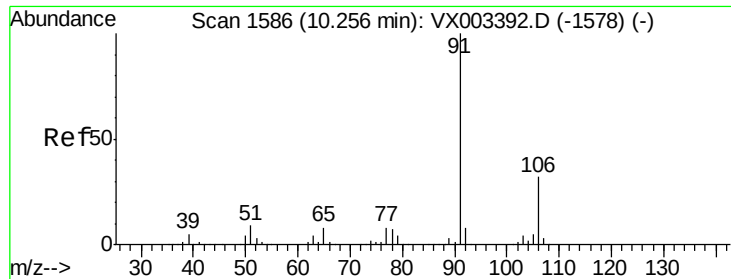
Ion Ratio Lower Upper

131 100

133 94.8 47.9 143.6

119 66.1 31.8 95.3





#67

Ethyl Benzene

Concen: 4.65 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 77381

Ion Ratio Lower Upper

91 100

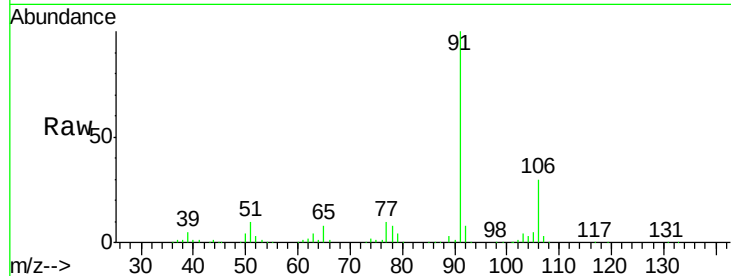
106 30.1 25.5 38.3

Manual Integrations

APPROVED

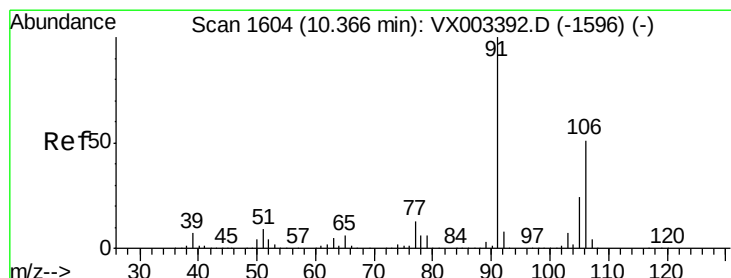
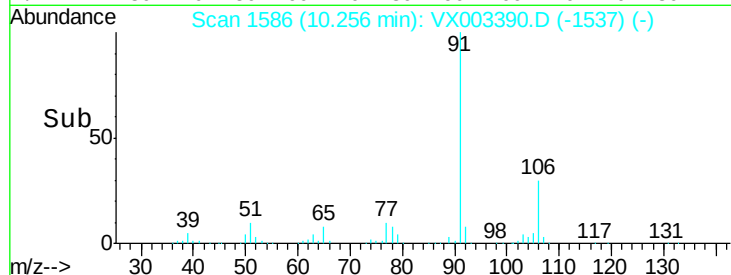
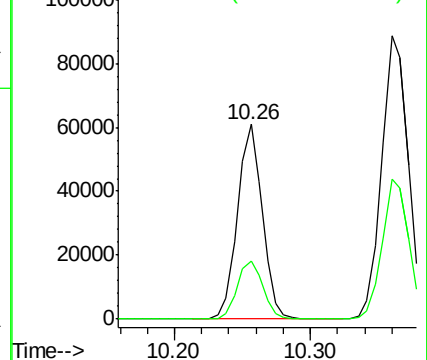
MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 9.27 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.01 min

Lab File: VX003390.D

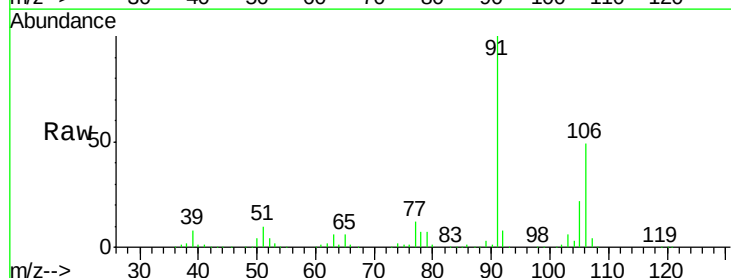
Acq: 16 Jul 2018 10:53

Tgt Ion: 106 Resp: 59477

Ion Ratio Lower Upper

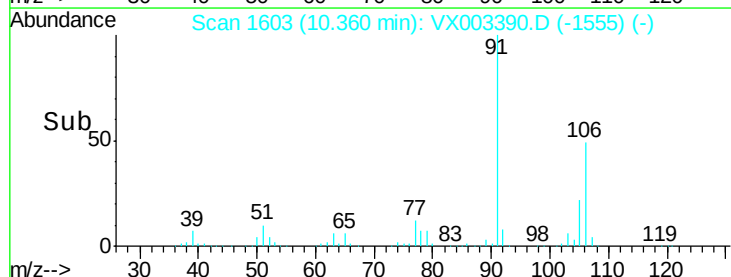
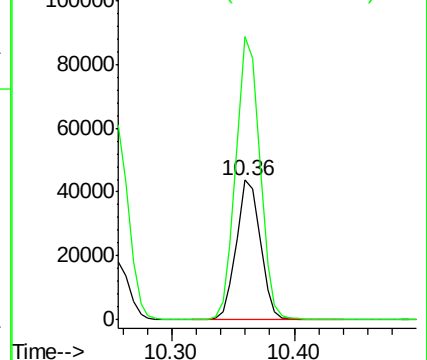
106 100

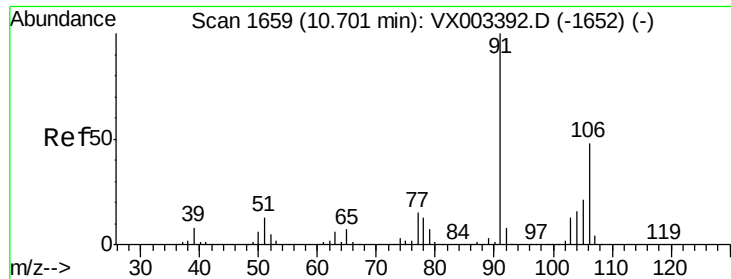
91 201.0 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





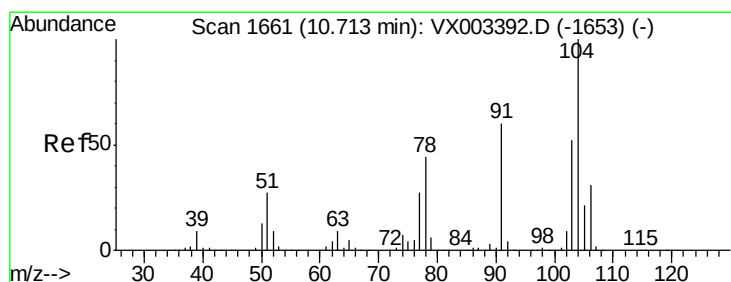
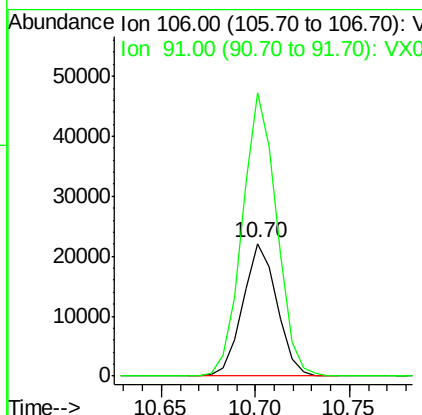
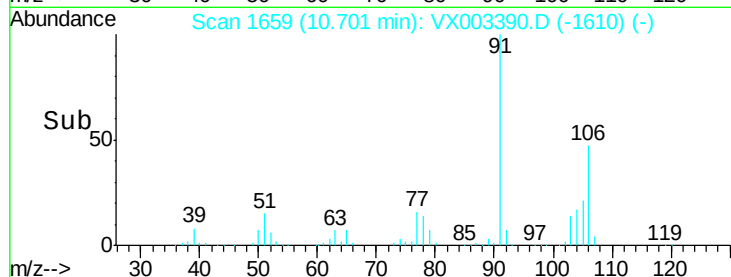
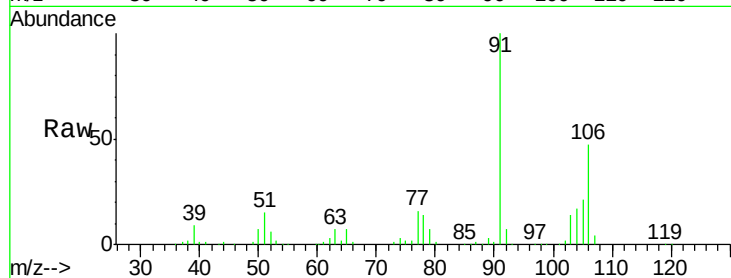
#69
o-Xylene
Concen: 4.44 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

Tot Ion:106 Resp: 27833
Ion Ratio Lower Upper
106 100
91 215.2 108.2 324.6

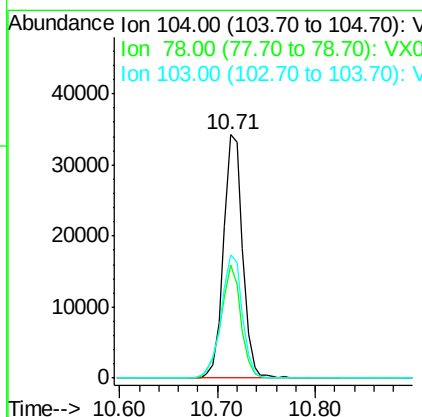
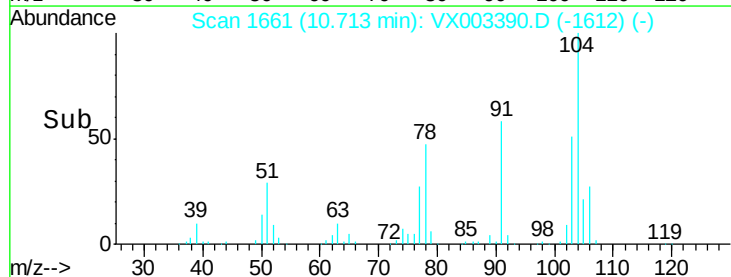
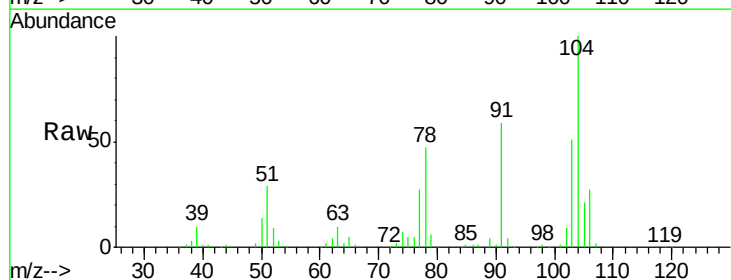
Manual Integrations
APPROVED

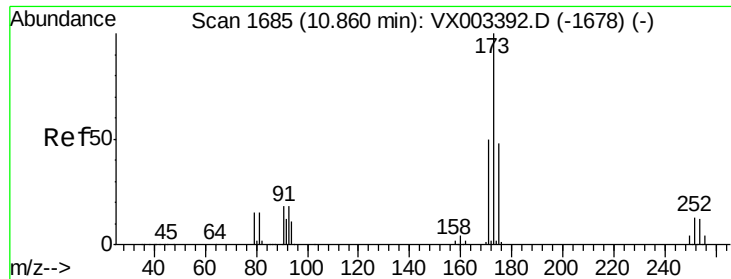
MMDadoda
7/17/2018 1:46:29 PM



#70
Styrene
Concen: 4.42 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion:104 Resp: 46604
Ion Ratio Lower Upper
104 100
78 48.3 41.0 61.6
103 55.8 44.2 66.4





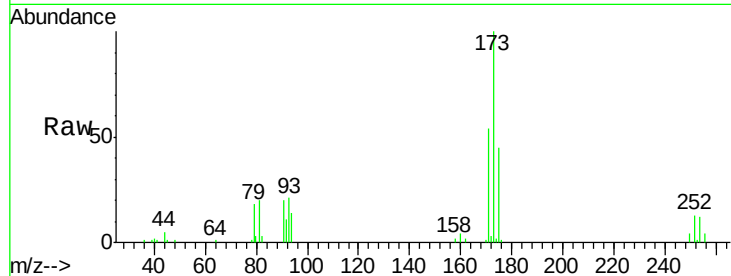
#71
Bromoform
Concen: 4.43 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

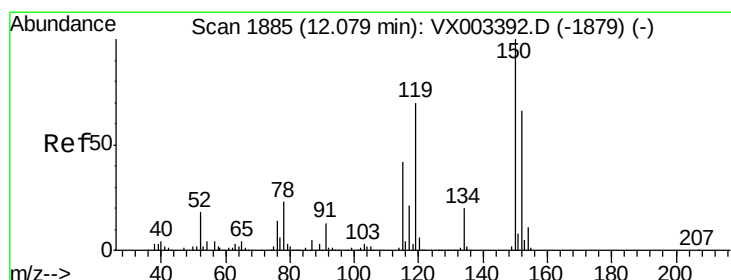
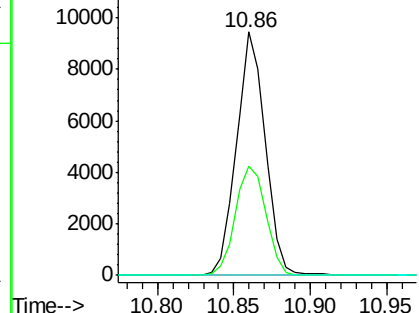
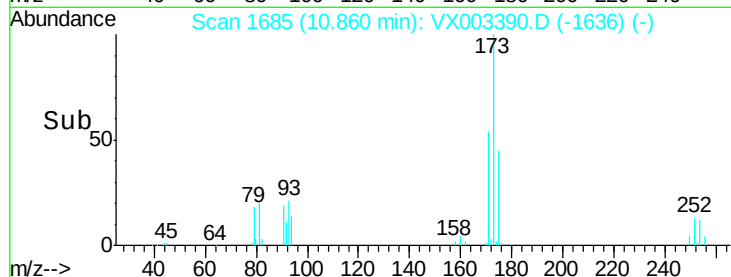
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.7	74.1
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM

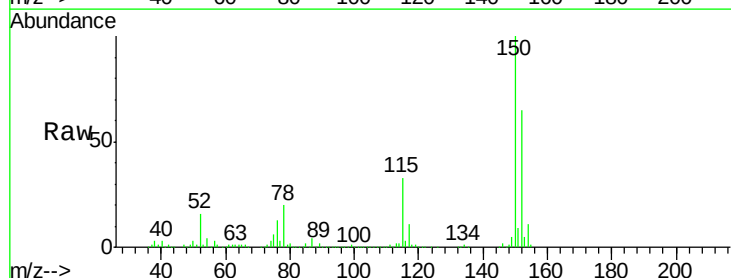


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

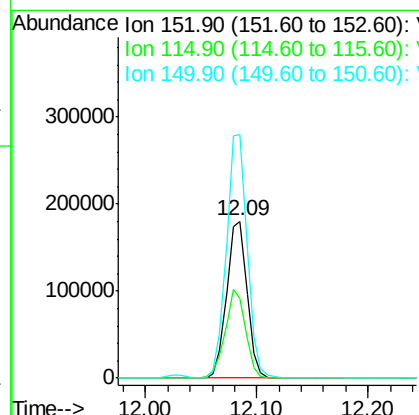
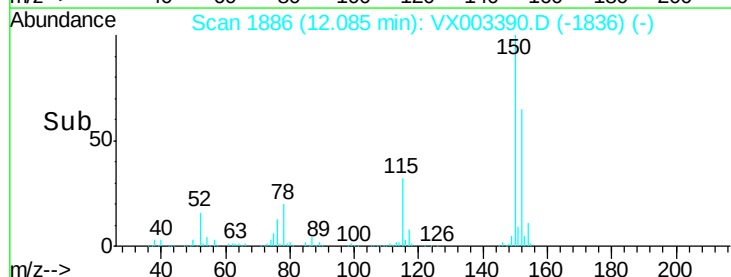


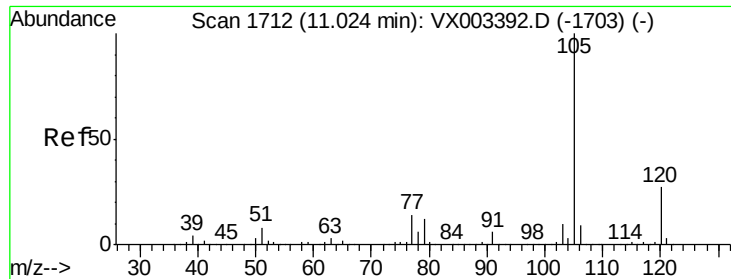
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	40.1	120.2
150	158.3	0.0	347.2



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





#73

Isopropylbenzene

Concen: 4.83 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 76031

Ion Ratio Lower Upper

105 100

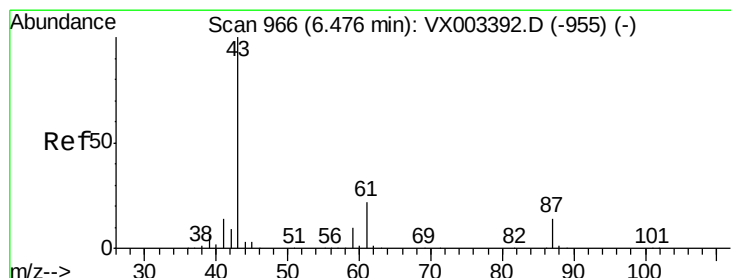
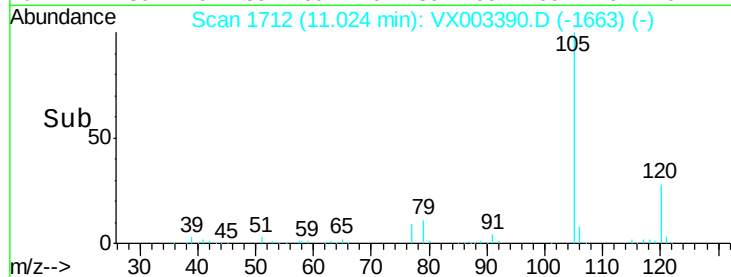
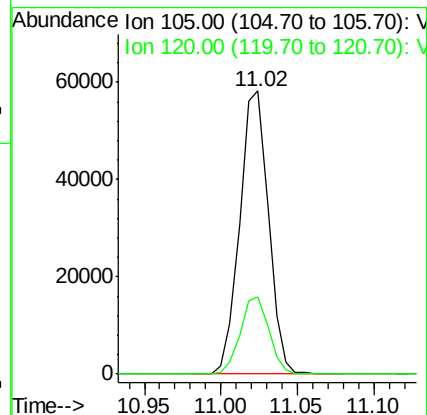
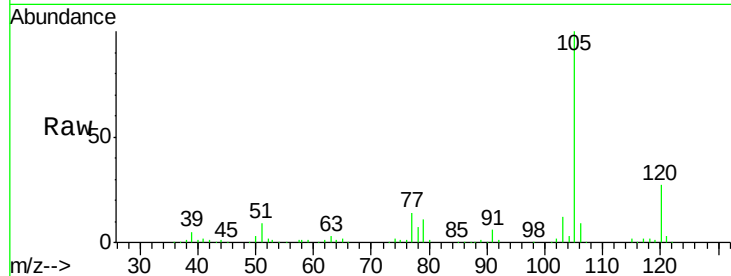
120 27.1 13.5 40.4

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#74

N-ethyl acetate

Concen: 5.18 ug/l

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion: 43 Resp: 37806

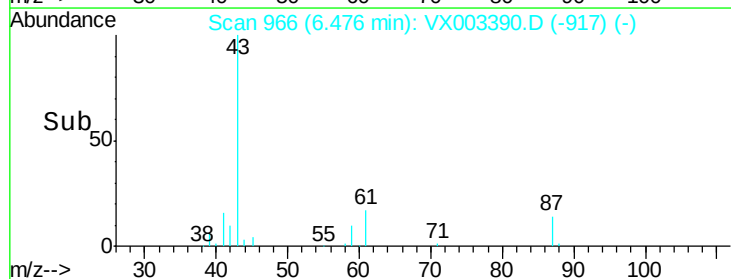
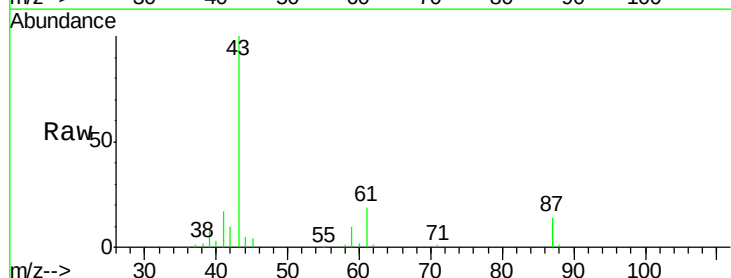
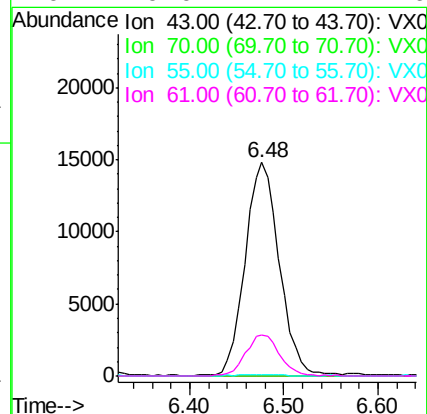
Ion Ratio Lower Upper

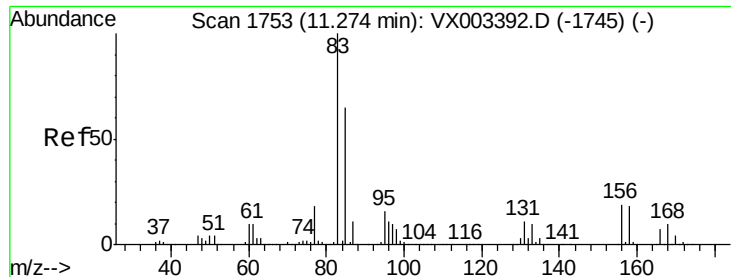
43 100

70 0.0 0.0 0.0

55 0.6 0.0 0.0#

61 19.0 14.4 21.6





#75

1,1,2,2-Tetrachloroethane

Concen: 5.13 ug/l

RT: 11.27 min Scan# 1752

Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

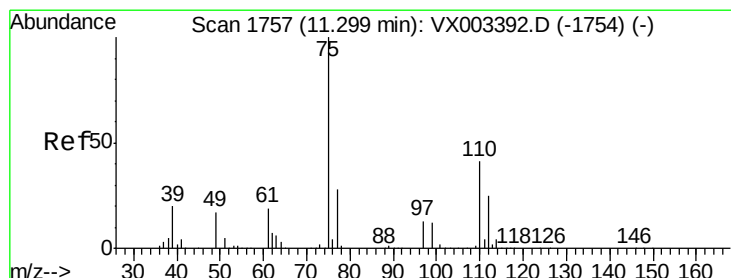
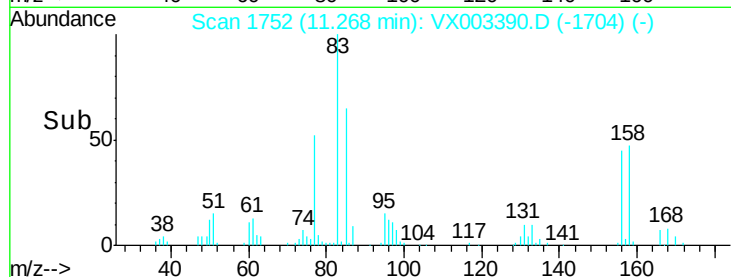
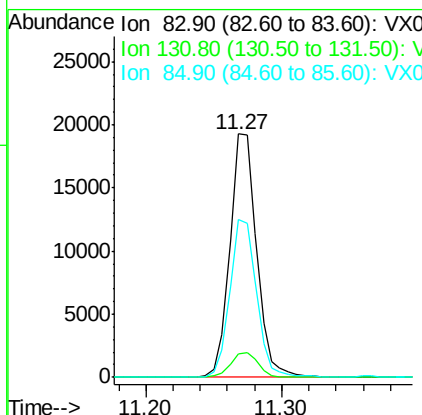
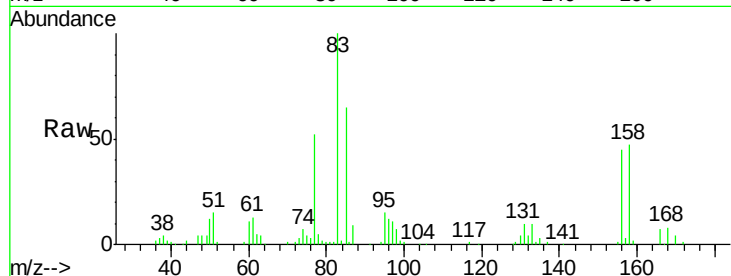
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	26348
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.6	16.8
85	64.9	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#76

1,2,3-Trichloropropane

Concen: 4.98 ug/l m

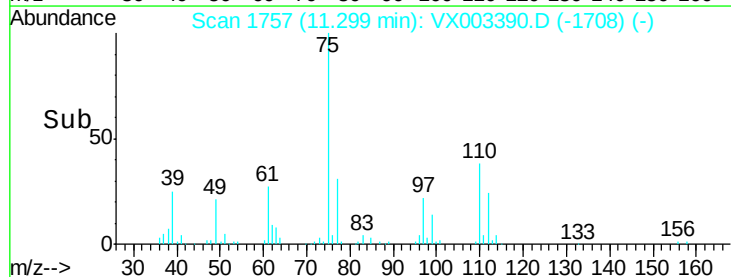
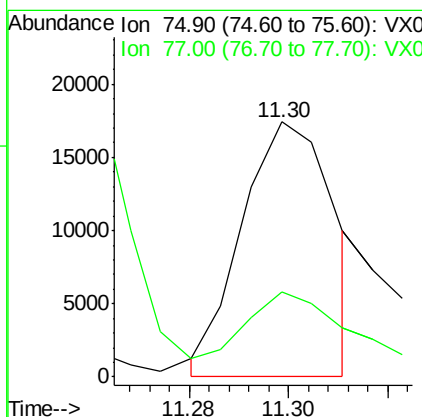
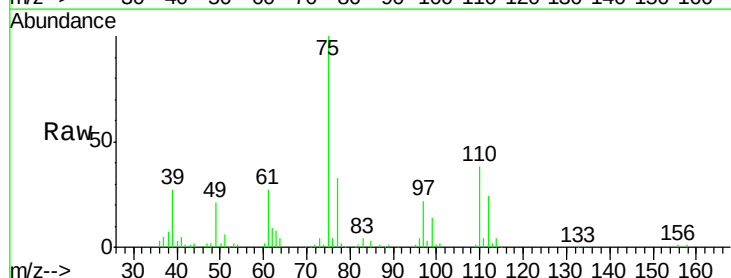
RT: 11.30 min Scan# 1757

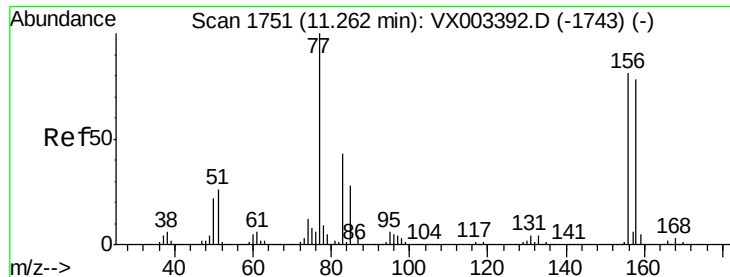
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	75	Resp:	22399
Ion	Ratio	Lower	Upper
75	100		
77	41.7	22.8	68.3





#77

Bromobenzene

Concen: 4.91 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

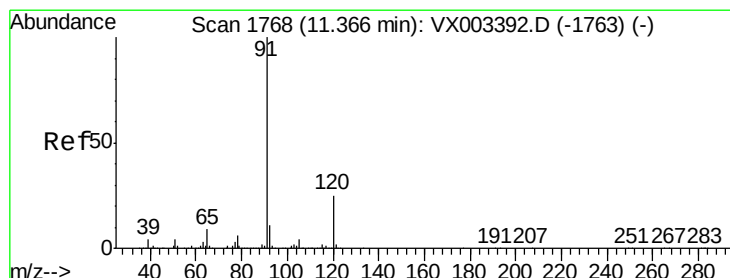
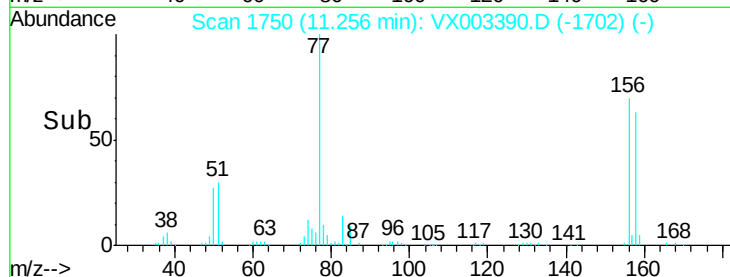
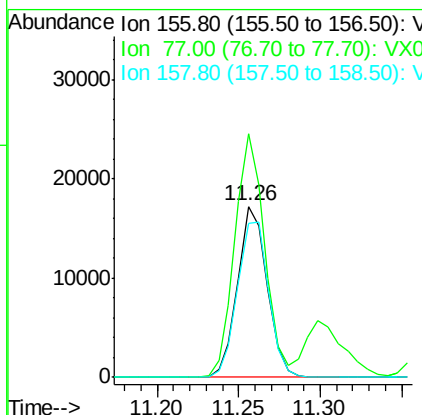
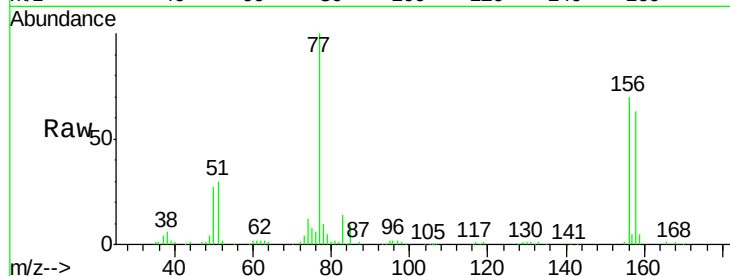
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	142.7	71.4	214.2
158	96.8	48.9	146.6

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#78

n-propylbenzene

Concen: 4.67 ug/l

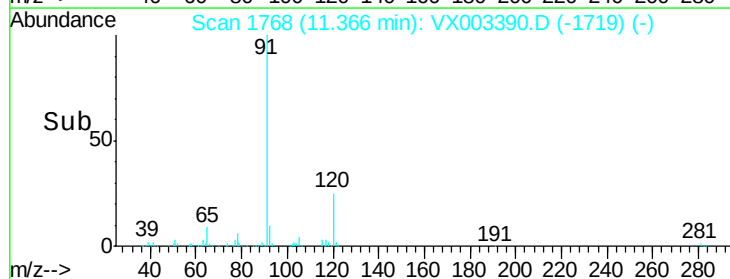
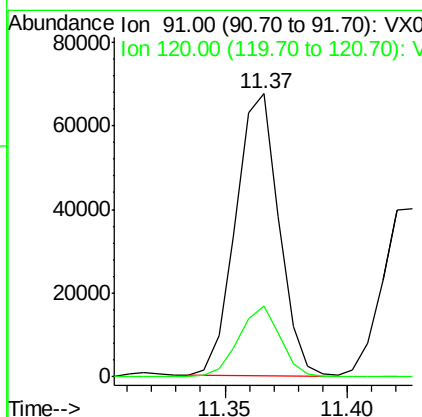
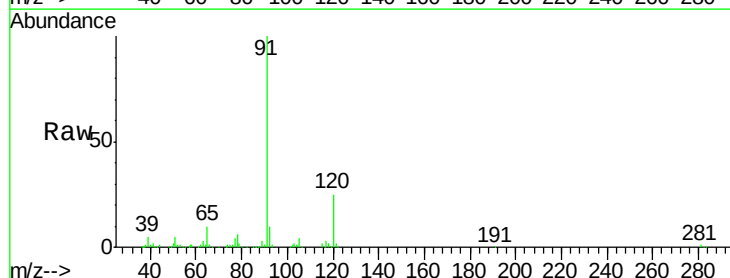
RT: 11.37 min Scan# 1768

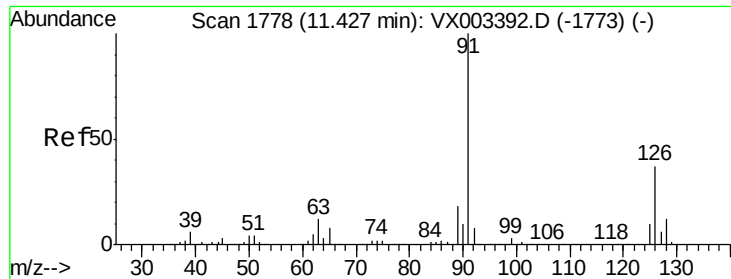
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.8	35.4





#79

2-Chlorotoluene

Concen: 4.82 ug/l

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 52929

Ion Ratio Lower Upper

91 100

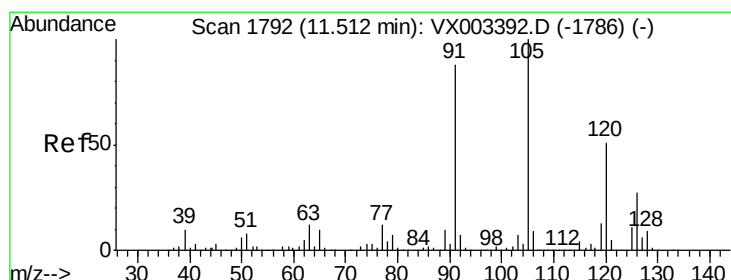
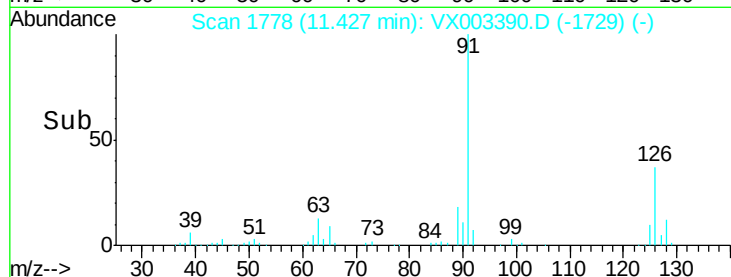
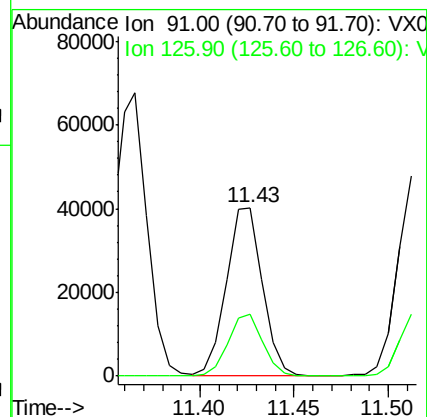
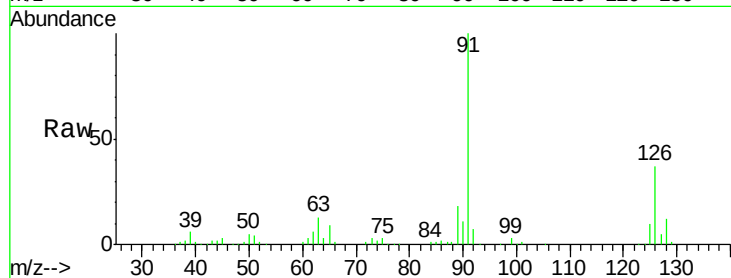
126 35.7 17.7 53.1

Manual Integrations

APPROVED

MMDadoda

7/17/2018 1:46:29 PM



#80

1,3,5-Trimethylbenzene

Concen: 4.68 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX003390.D

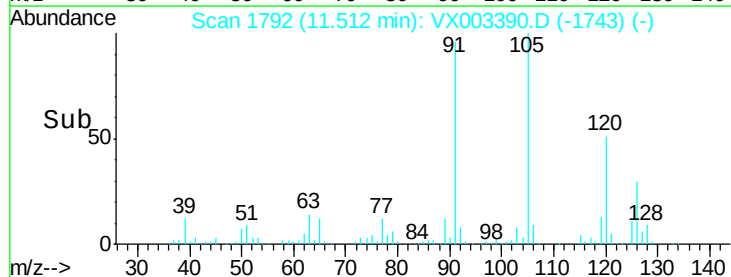
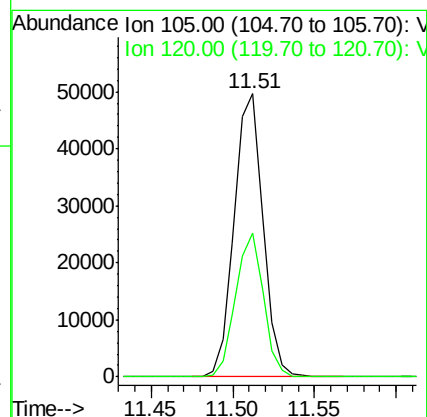
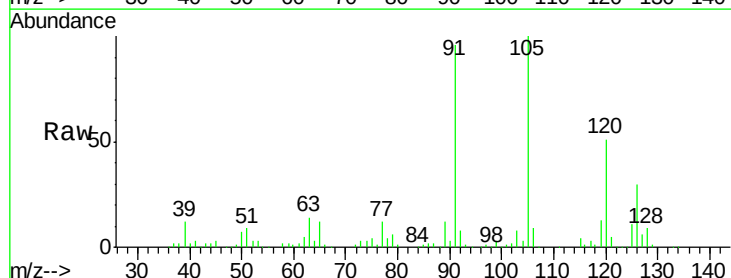
Acq: 16 Jul 2018 10:53

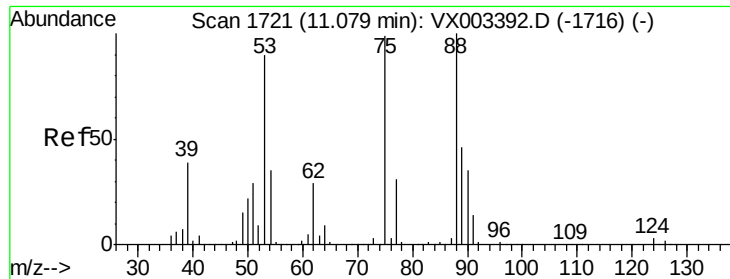
Tgt Ion: 105 Resp: 61028

Ion Ratio Lower Upper

105 100

120 49.3 24.4 73.4





#81

trans-1,4-Dichloro-2-butene

Concen: 4.31 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

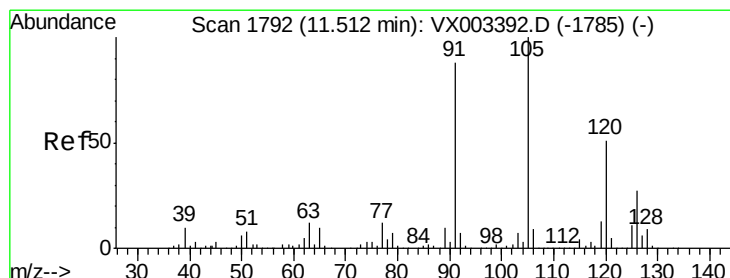
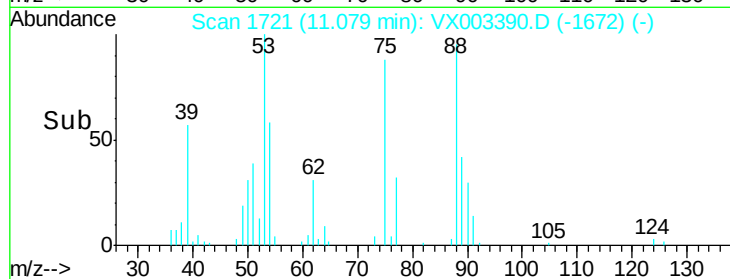
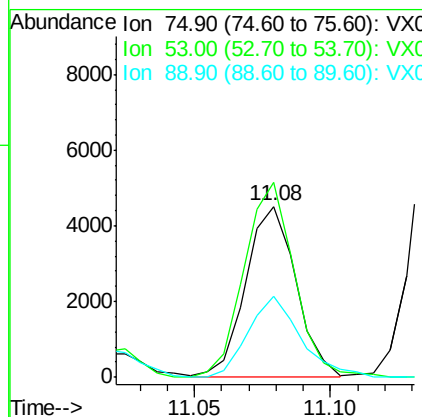
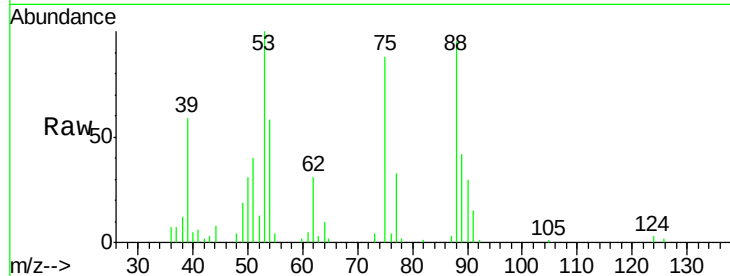
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	5811
Ion Ratio	Lower	Upper	
75	100		
53	113.5	86.8	130.2
89	49.0	38.2	57.2

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#82

4-Chlorotoluene

Concen: 4.70 ug/l

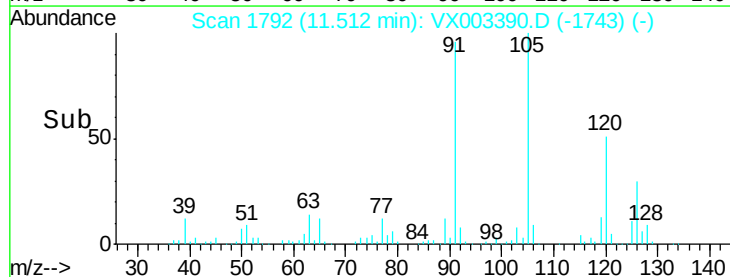
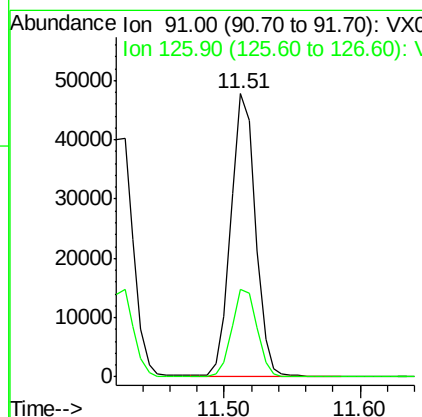
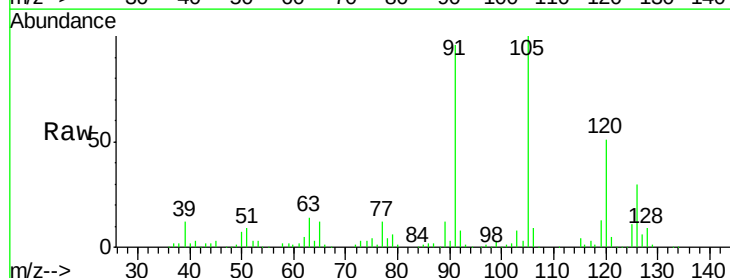
RT: 11.51 min Scan# 1792

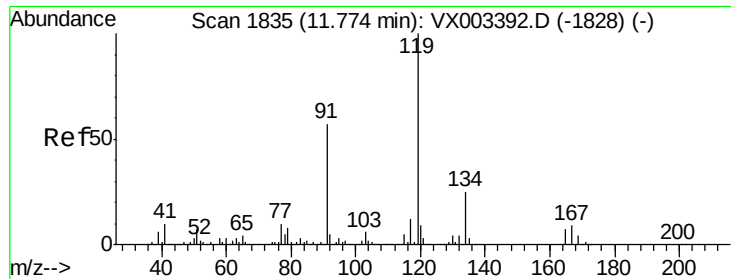
Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Tgt Ion:	91	Resp:	60225
Ion Ratio	Lower	Upper	
91	100		
126	31.7	15.4	46.4





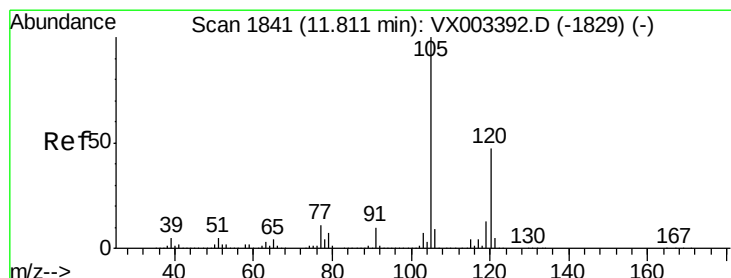
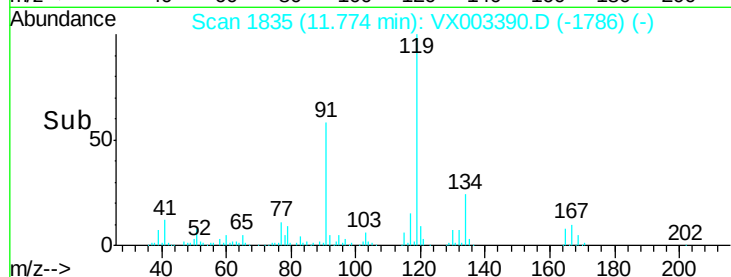
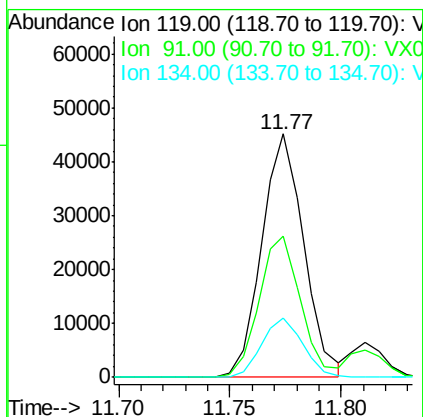
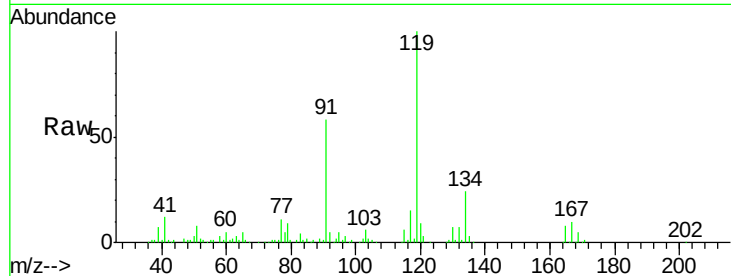
#83
 tert-Butylbenzene
 Concen: 4.58 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	57.7	30.3	90.9
134	24.3	11.7	35.1

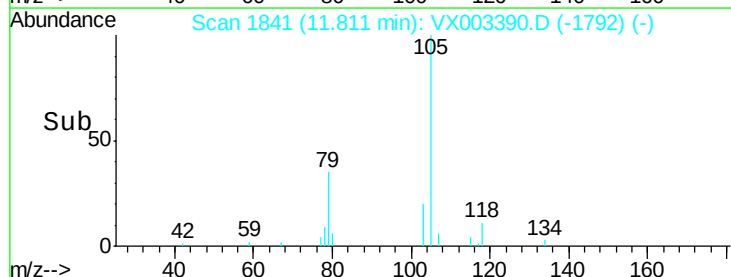
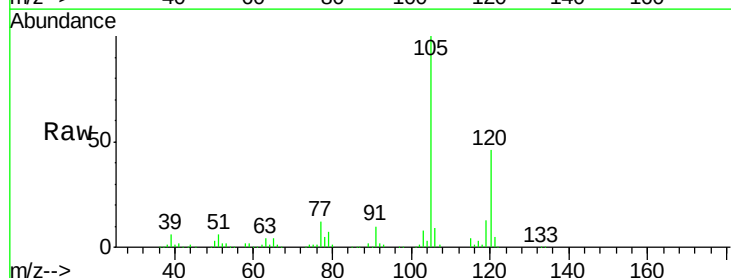
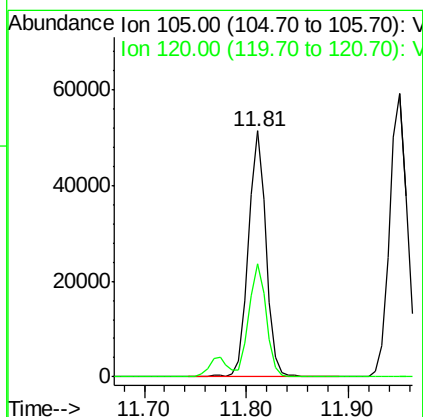
Manual Integrations
 APPROVED

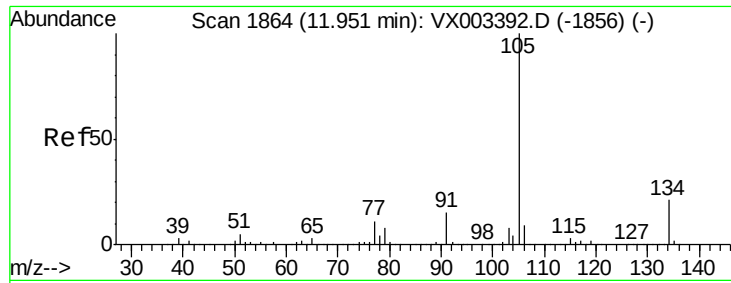
MMDadoda
 7/17/2018 1:46:29 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 4.69 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	22.3	66.8





#85

sec-Butylbenzene

Concen: 4.67 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 72113

Ion Ratio Lower Upper

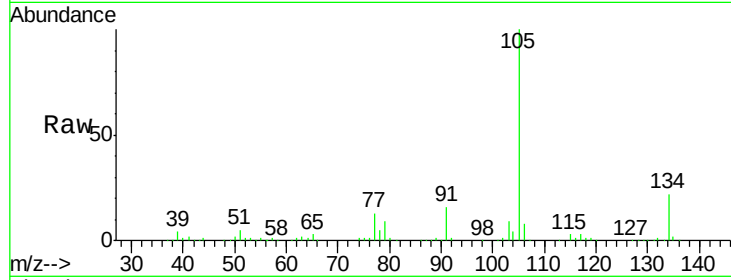
105 100

134 21.1 10.4 31.1

Manual Integrations
APPROVED

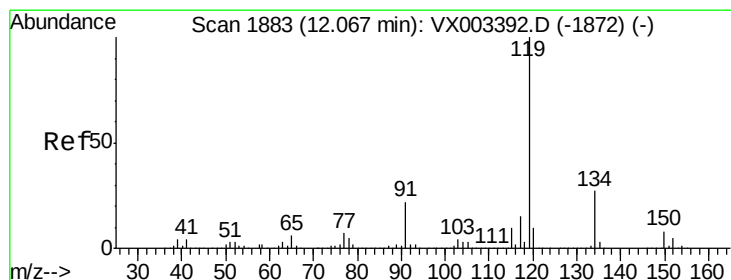
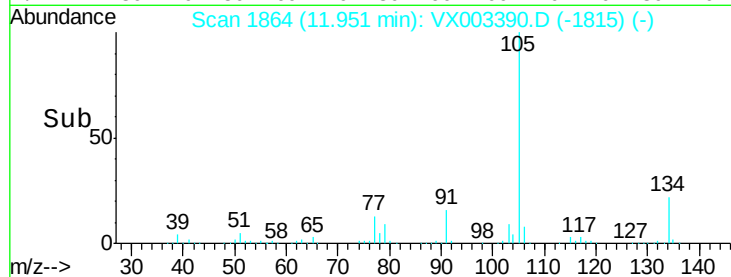
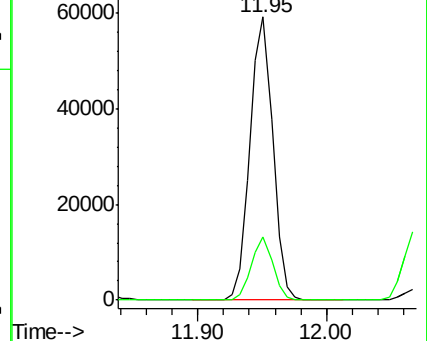
MMDadoda

7/17/2018 1:46:29 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.60 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX003390.D

Acq: 16 Jul 2018 10:53

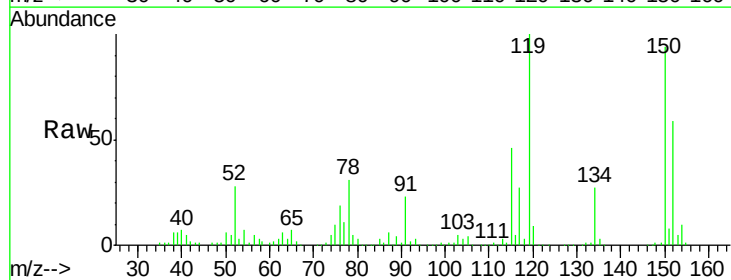
Tgt Ion:119 Resp: 63567

Ion Ratio Lower Upper

119 100

134 27.4 13.4 40.1

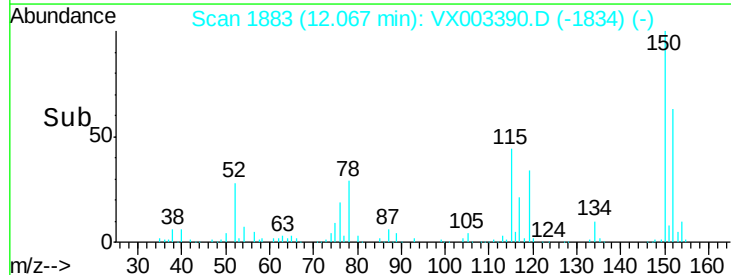
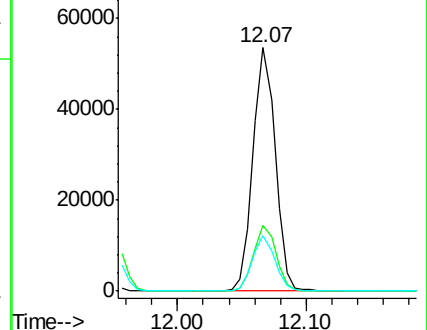
91 23.2 11.9 35.7

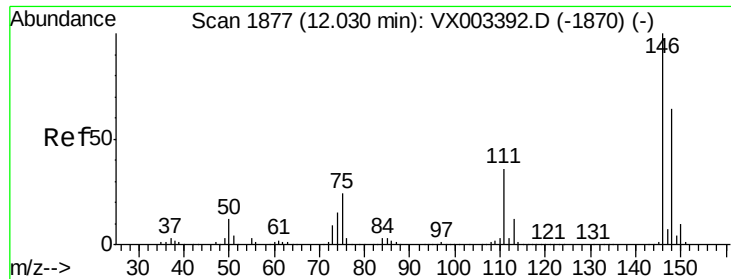


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





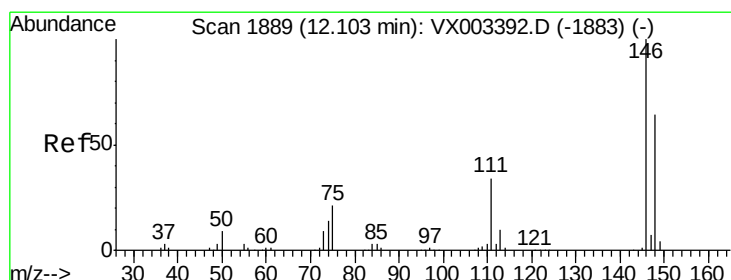
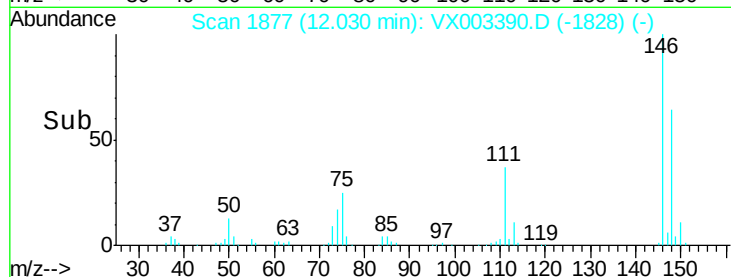
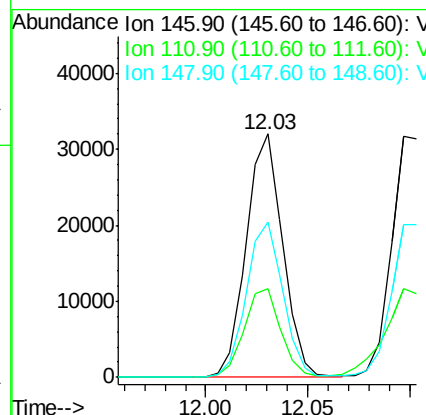
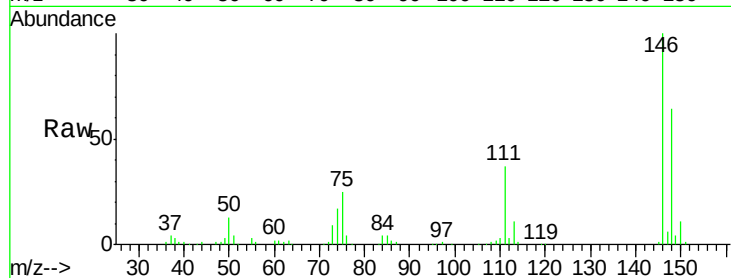
#87
 1,3-Dichlorobenzene
 Concen: 4.80 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.9	56.7
148	63.6	32.1	96.3

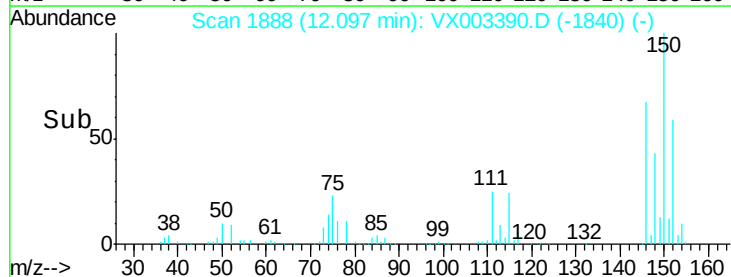
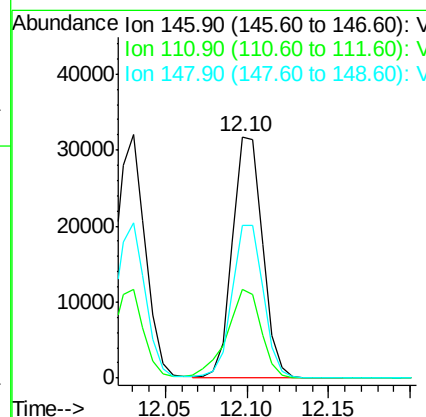
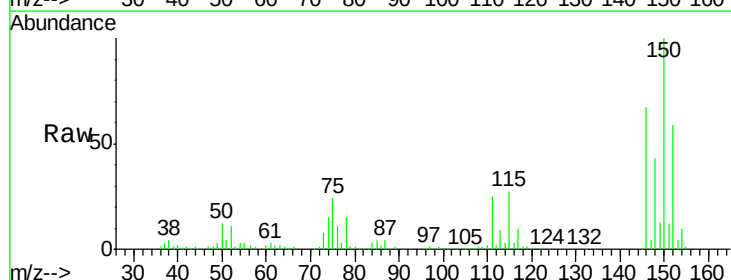
Manual Integrations
 APPROVED

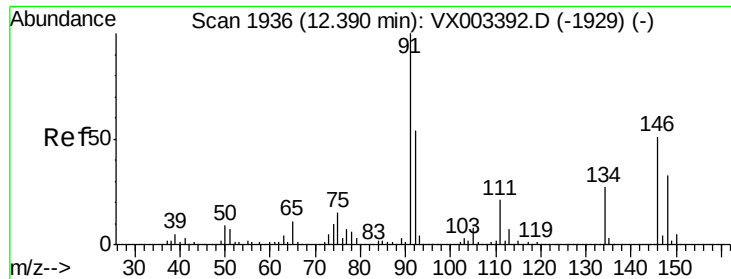
MMDadoda
 7/17/2018 1:46:29 PM



#88
 1,4-Dichlorobenzene
 Concen: 4.85 ug/l
 RT: 12.10 min Scan# 1888
 Delta R.T. -0.01 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	18.7	56.1
148	66.0	32.4	97.0





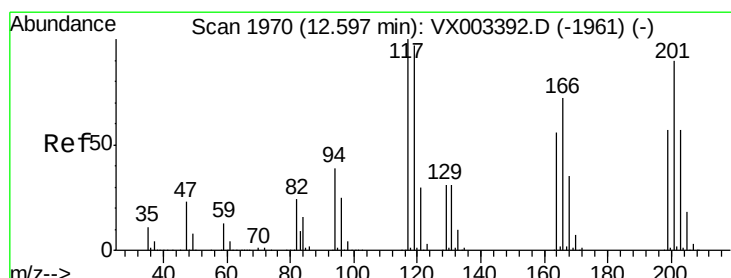
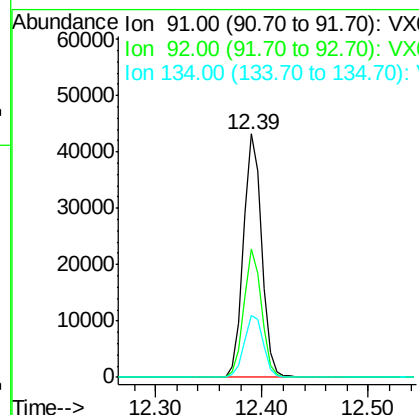
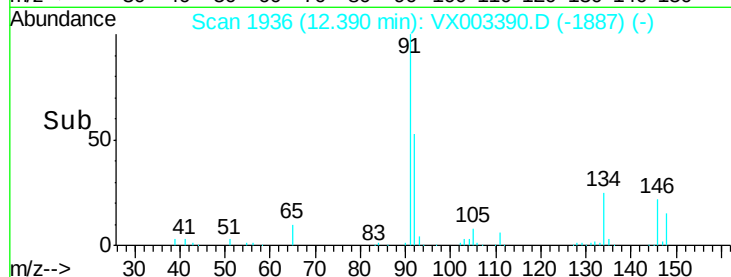
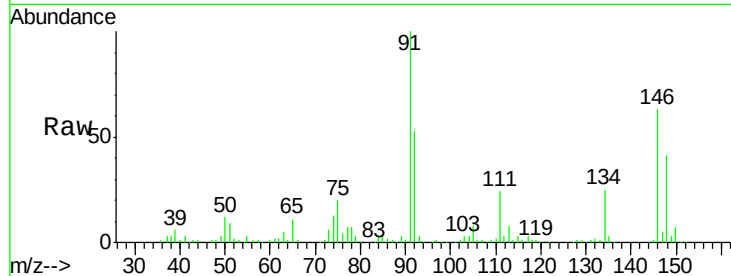
#89
n-Butylbenzene
Concen: 4.44 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.0	78.0
134	26.5	13.5	40.5

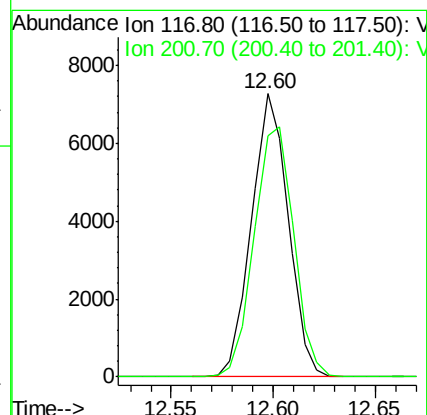
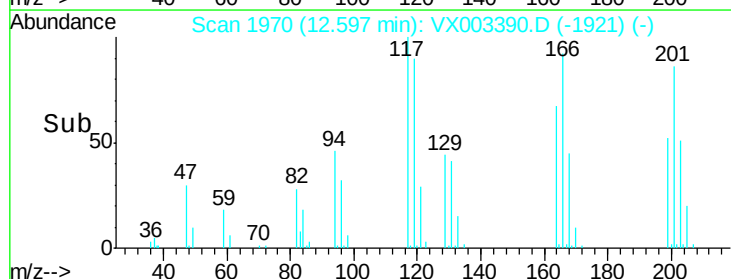
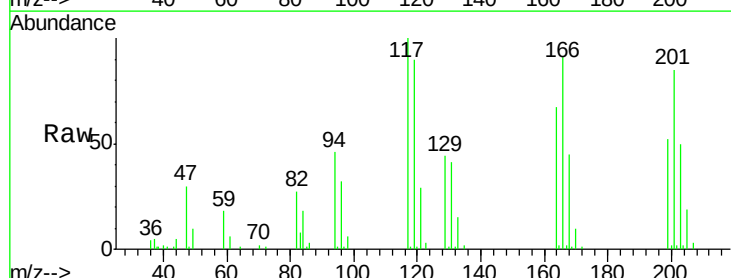
Manual Integrations
APPROVED

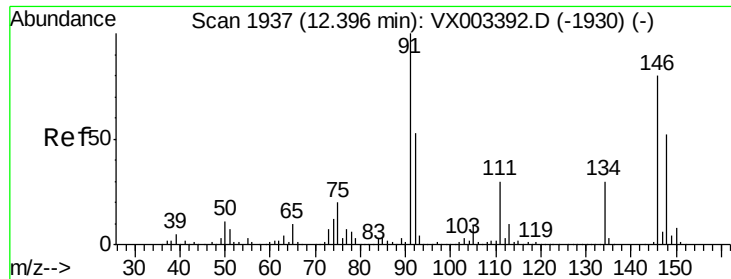
MMDadoda
7/17/2018 1:46:29 PM



#90
Hexachloroethane
Concen: 4.40 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.5	49.0	147.0





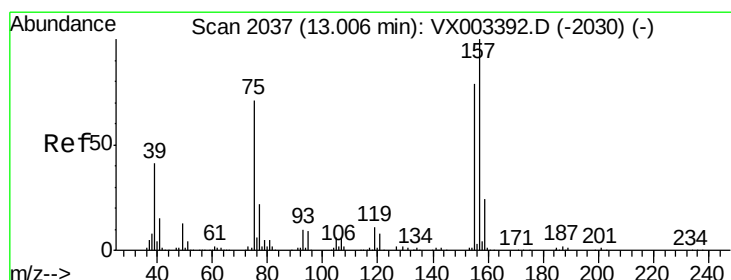
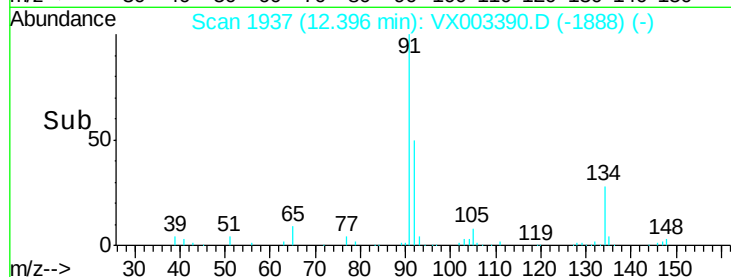
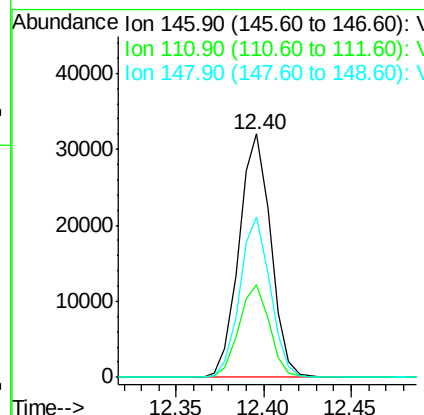
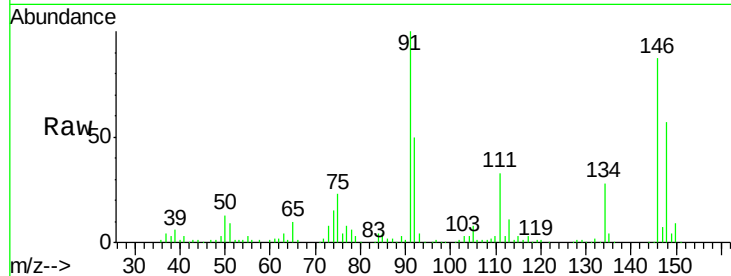
#91
 1,2-Dichlorobenzene
 Concen: 4.87 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.7	19.4	58.1
148	63.6	31.7	95.1

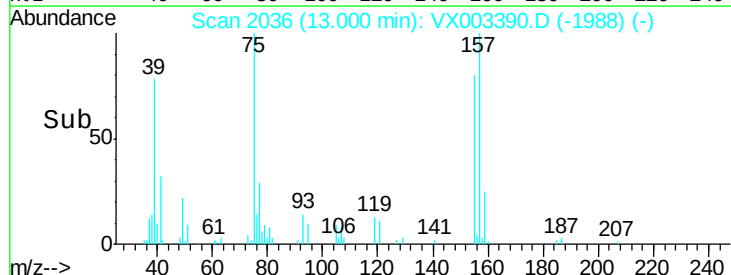
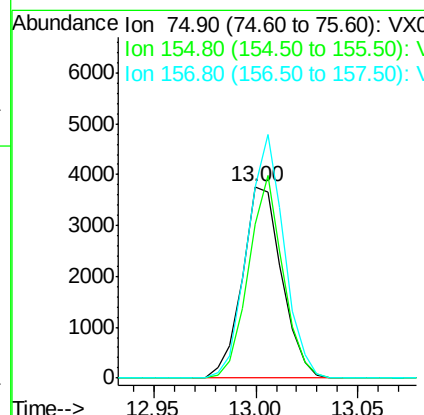
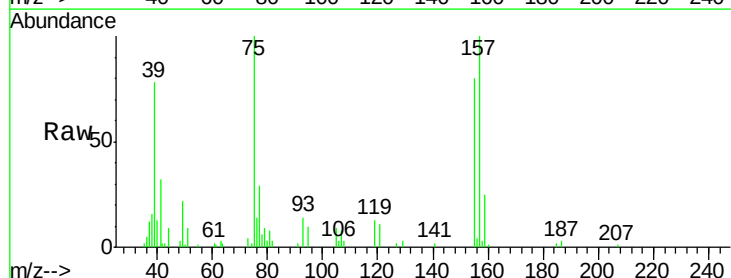
Manual Integrations
 APPROVED

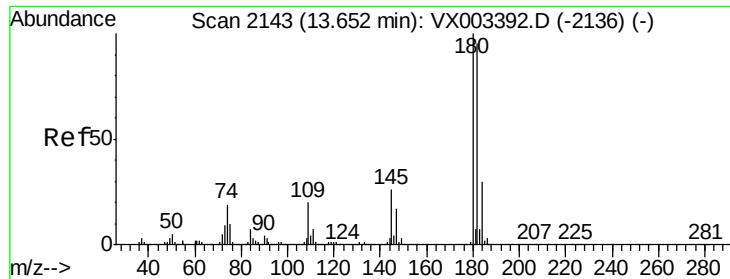
MMDadoda
 7/17/2018 1:46:29 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.92 ug/l
 RT: 13.00 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.4	45.8	137.4
157	118.4	60.1	180.3





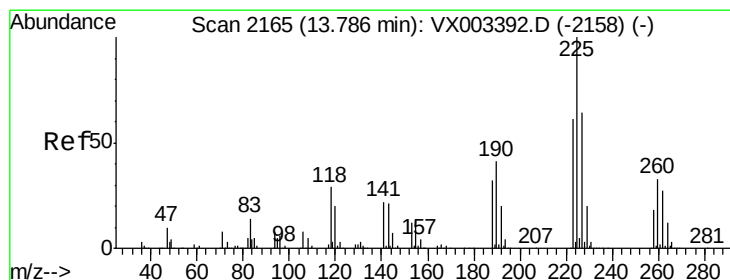
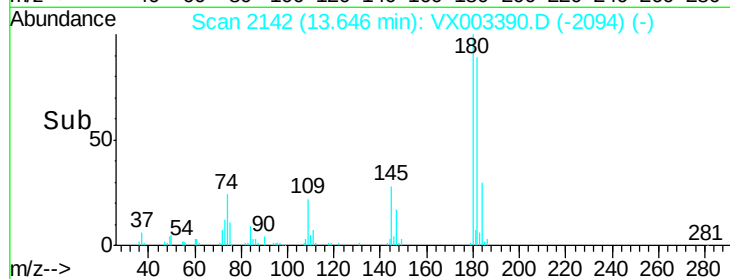
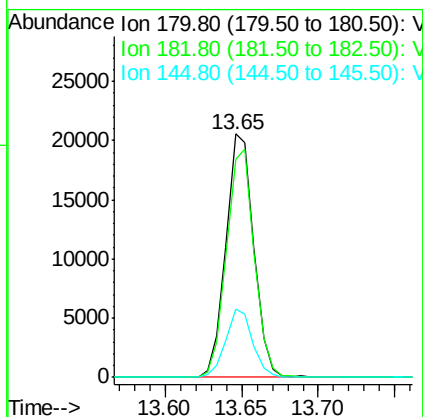
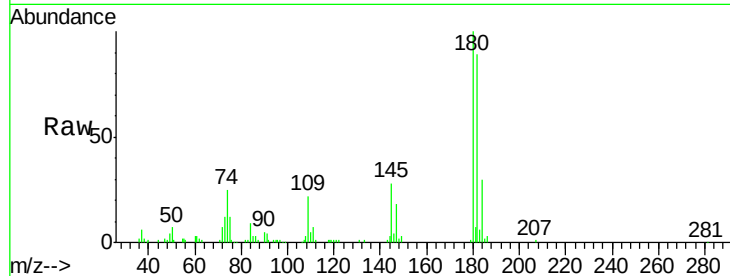
#93
 1,2,4-Trichlorobenzene
 Concen: 4.56 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.01 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.7	143.1
145	26.9	14.1	42.4

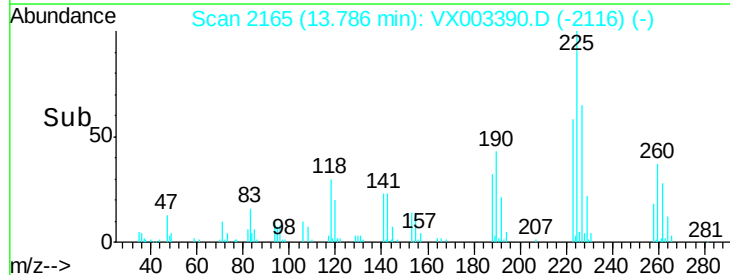
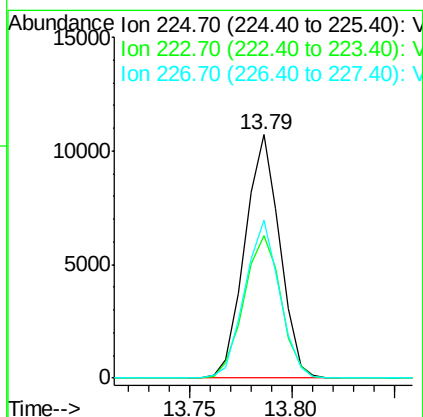
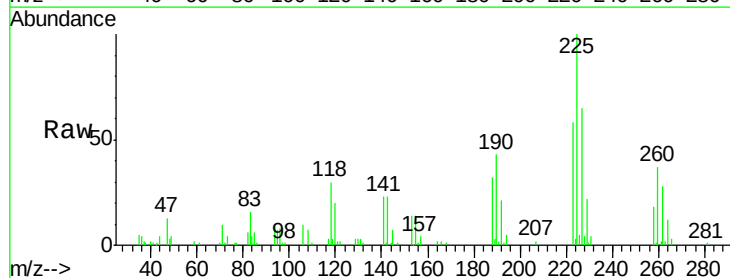
Manual Integrations
 APPROVED

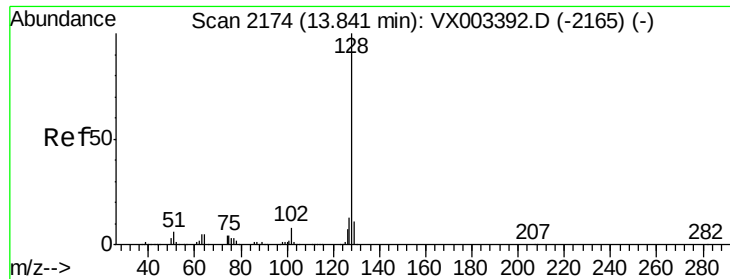
MMDadoda
 7/17/2018 1:46:29 PM



#94
 Hexachlorobutadiene
 Concen: 4.74 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003390.D
 Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.6	95.0
227	64.6	32.4	97.2





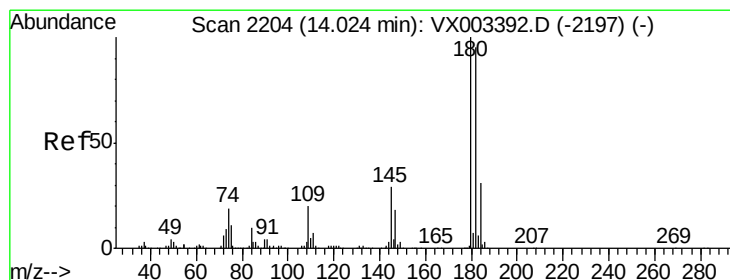
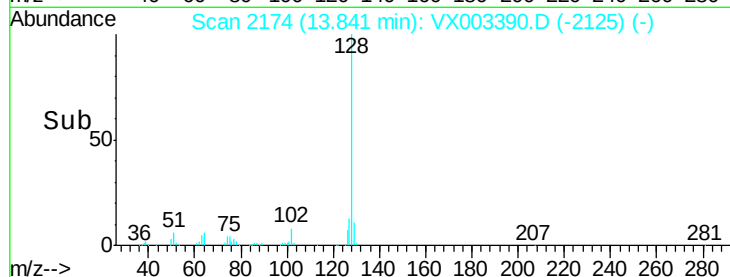
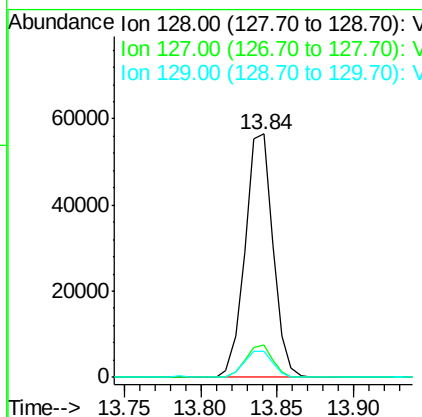
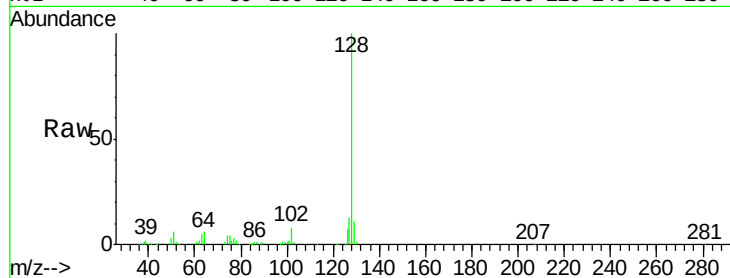
#95
Naphthalene
Concen: 4.49 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/17/2018 1:46:29 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.69 ug/l
RT: 14.02 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VX003390.D
Acq: 16 Jul 2018 10:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.6	48.0	144.0
145	29.7	14.8	44.3

