

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081418\
 Data File : VX004023.D
 Acq On : 14 Aug 2018 11:08
 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
 8/15/2018 4:49:51 PM

Quant Time: Aug 14 13:03:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 12:59:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	319487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	456702	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	419364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	250408	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	23984	5.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.32%	
35) Dibromofluoromethane	5.51	113	17676	5.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.22%	
50) Toluene-d8	8.71	98	69116	5.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.28%	
62) 4-Bromofluorobenzene	11.14	95	22334	5.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	13828	4.27	ug/l	94
3) Chloromethane	1.32	50	18292	4.15	ug/l	98
4) Vinyl Chloride	1.40	62	19581	4.46	ug/l	99
5) Bromomethane	1.64	94	11621	4.15	ug/l	96
6) Chloroethane	1.72	64	17078	6.08	ug/l	93
7) Trichlorofluoromethane	1.93	101	28151	4.85	ug/l	99
8) Diethyl Ether	2.18	74	12185	4.67	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	17806	4.91	ug/l	99
10) Methyl Iodide	2.51	142	12781	2.83	ug/l	97
11) Tert butyl alcohol	3.04	59	22891	22.49	ug/l	98
12) 1,1-Dichloroethene	2.37	96	16466	4.80	ug/l	96
13) Acrolein	2.29	56	8471	15.10	ug/l	93
14) Allyl chloride	2.73	41	30950	4.68	ug/l	98
15) Acrylonitrile	3.14	53	55957	23.04	ug/l	100
16) Acetone	2.44	43	58215	23.11	ug/l	99
17) Carbon Disulfide	2.57	76	43526	4.16	ug/l	99
18) Methyl Acetate	2.77	43	25019	4.56	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	56772	4.67	ug/l	100
20) Methylene Chloride	2.86	84	21281	3.48	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	18338	4.71	ug/l	99
22) Diisopropyl ether	3.86	45	60762	5.00	ug/l	91
23) Vinyl Acetate	3.82	43	243709	24.11	ug/l	100
24) 1,1-Dichloroethane	3.70	63	35259	4.89	ug/l	99
25) 2-Butanone	4.70	43	93725	24.74	ug/l	97
26) 2,2-Dichloropropane	4.58	77	27189	5.22	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	21399	5.07	ug/l	85
28) Bromochloromethane	5.02	49	15751	5.10	ug/l	94
29) Tetrahydrofuran	5.15	42	46761	24.02	ug/l	99
30) Chloroform	5.21	83	34165	5.03	ug/l	98
31) Cyclohexane	5.57	56	29839	4.89	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	27941	4.90	ug/l	98
36) 1,1-Dichloropropene	5.80	75	24500	4.79	ug/l	99
37) Ethyl Acetate	4.85	43	28586	5.08	ug/l	98
38) Carbon Tetrachloride	5.78	117	24347	5.00	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081418\
 Data File : VX004023.D
 Acq On : 14 Aug 2018 11:08
 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
 8/15/2018 4:49:51 PM

Quant Time: Aug 14 13:03:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 12:59:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	26219	4.35	ug/l	95
40) Benzene	6.15	78	76573	4.99	ug/l	98
41) Methacrylonitrile	5.06	41	15759	5.09	ug/l	97
42) 1,2-Dichloroethane	6.20	62	27646	5.32	ug/l	100
43) Isopropyl Acetate	6.46	43	39296	4.64	ug/l	100
44) Trichloroethene	7.21	130	20523	4.89	ug/l	99
45) 1,2-Dichloropropane	7.52	63	19858	5.01	ug/l	98
46) Dibromomethane	7.67	93	12888	5.00	ug/l	99
47) Bromodichloromethane	7.90	83	23568	4.86	ug/l	98
48) Methyl methacrylate	7.78	41	18586	4.32	ug/l	99
49) 1,4-Dioxane	7.76	88	8435	83.19	ug/l	90
51) 4-Methyl-2-Pentanone	8.65	43	160689	22.90	ug/l	98
52) Toluene	8.79	92	48409	4.99	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	23245	4.24	ug/l	92
54) cis-1,3-Dichloropropene	8.44	75	26514	4.48	ug/l	97
55) 1,1,2-Trichloroethane	9.22	97	20380	5.14	ug/l	98
56) Ethyl methacrylate	9.18	69	23301	4.05	ug/l	97
57) 1,3-Dichloropropane	9.37	76	33613	5.06	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.32	63	61583	21.77	ug/l	100
59) 2-Hexanone	9.50	43	120060	22.88	ug/l	95
60) Dibromochloromethane	9.59	129	17521	4.74	ug/l	99
61) 1,2-Dibromoethane	9.67	107	20215	5.09	ug/l	99
64) Tetrachloroethene	9.34	164	20180	4.89	ug/l	95
65) Chlorobenzene	10.14	112	52829	4.84	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.23	131	17989	4.80	ug/l	98
67) Ethyl Benzene	10.25	91	80160	4.49	ug/l	97
68) m/p-Xylenes	10.36	106	60603	8.68	ug/l	99
69) o-Xylene	10.70	106	29338	4.45	ug/l	95
70) Styrene	10.71	104	47397	4.39	ug/l	97
71) Bromoform	10.86	173	12933	4.61	ug/l #	98
73) Isopropylbenzene	11.02	105	80552	4.35	ug/l	98
74) N-amyl acetate	6.46	43	39296	4.08	ug/l #	100
75) 1,1,2,2-Tetrachloroethane	11.27	83	29612	4.66	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	24872m	4.50	ug/l	
77) Bromobenzene	11.26	156	22713	4.60	ug/l	99
78) n-propylbenzene	11.36	91	89287	4.29	ug/l	97
79) 2-Chlorotoluene	11.42	91	55496	4.38	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	64440	4.27	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.07	75	6516	3.59	ug/l #	82
82) 4-Chlorotoluene	11.51	91	64193	4.32	ug/l	99
83) tert-Butylbenzene	11.77	119	64627	4.35	ug/l	98
84) 1,2,4-Trimethylbenzene	11.81	105	67094	4.42	ug/l	100
85) sec-Butylbenzene	11.94	105	75323	4.30	ug/l	99
86) p-Isopropyltoluene	12.07	119	67466	4.29	ug/l	98
87) 1,3-Dichlorobenzene	12.02	146	44769	4.90	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	45979	4.85	ug/l	96
89) n-Butylbenzene	12.39	91	50568	3.69	ug/l	96
90) Hexachloroethane	12.60	117	10066	3.94	ug/l	97
91) 1,2-Dichlorobenzene	12.39	146	40111	4.43	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.00	75	4849	3.73	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081418\
Data File : VX004023.D
Acq On : 14 Aug 2018 11:08
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

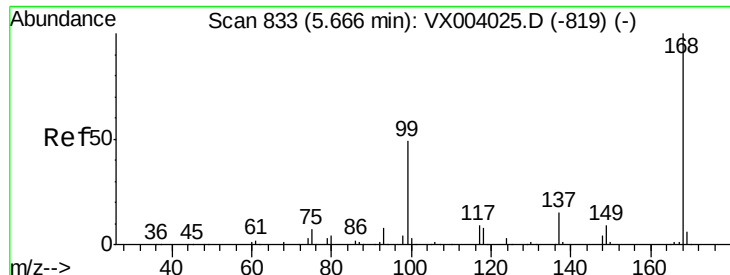
Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM

Quant Time: Aug 14 13:03:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 12:59:03 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	23024	3.54	ug/l	99
94) Hexachlorobutadiene	13.79	225	12093	3.96	ug/l	98
95) Naphthalene	13.83	128	60852	3.26	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	25243	3.88	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: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 319487

Ion Ratio Lower Upper

168 100

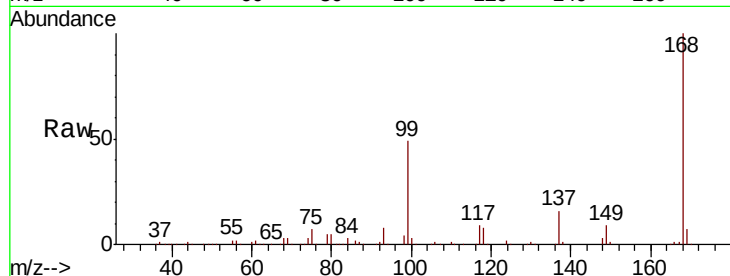
99 49.4 40.1 60.1

Manual Integrations

APPROVED

MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

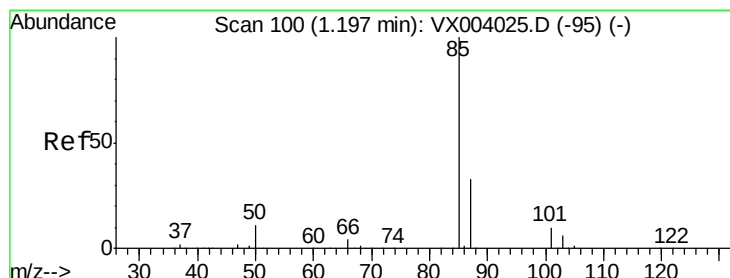
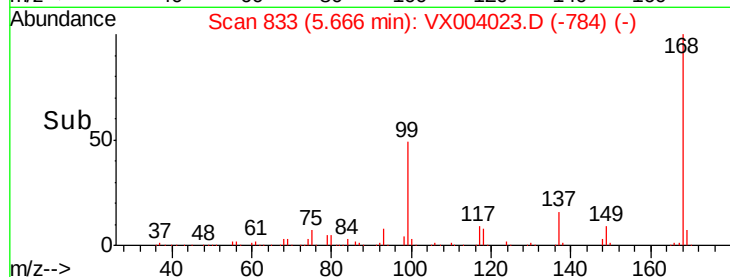
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 4.27 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX004023.D

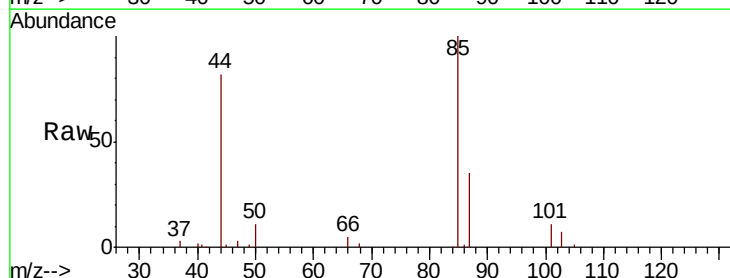
Acq: 14 Aug 2018 11:08

Tgt Ion: 85 Resp: 13828

Ion Ratio Lower Upper

85 100

87 35.1 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

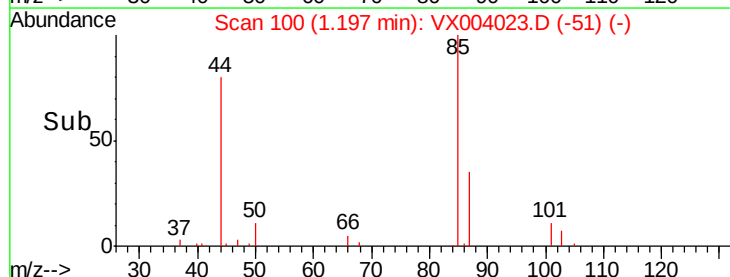
15000

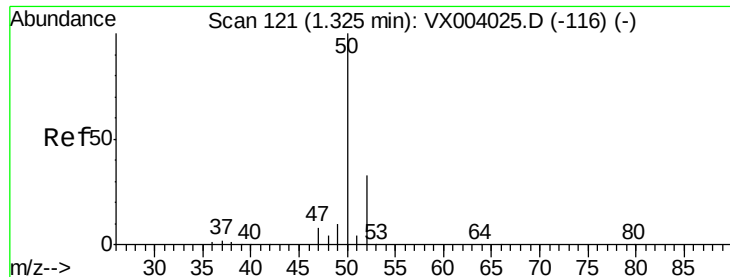
10000

5000

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 4.15 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 18292

Ion Ratio Lower Upper

50 100

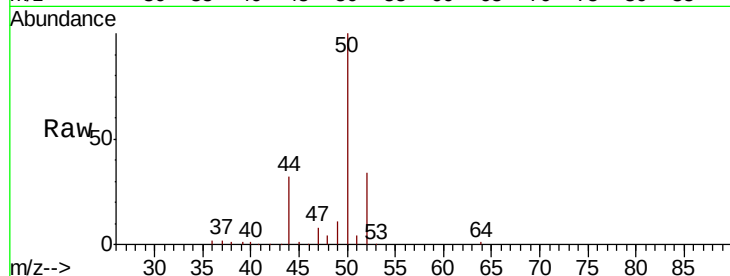
52 34.3 26.6 39.8

Manual Integrations

APPROVED

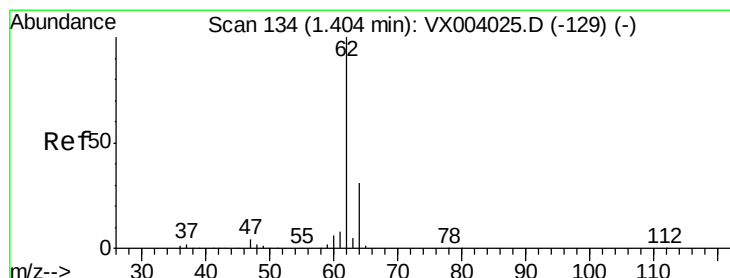
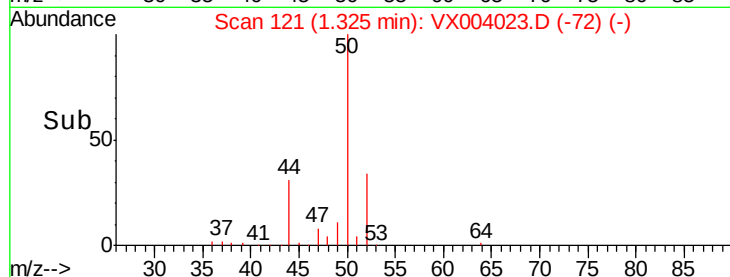
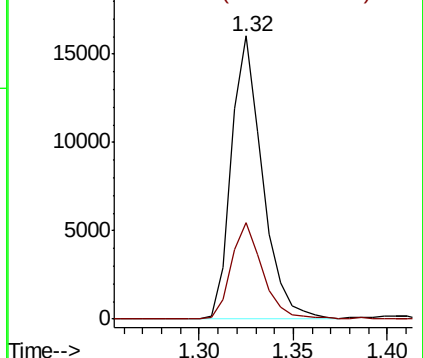
MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 4.46 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004023.D

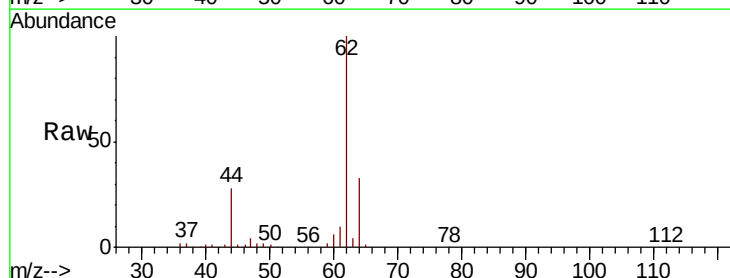
Acq: 14 Aug 2018 11:08

Tgt Ion: 62 Resp: 19581

Ion Ratio Lower Upper

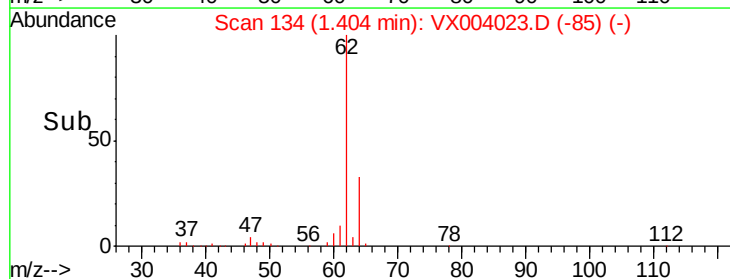
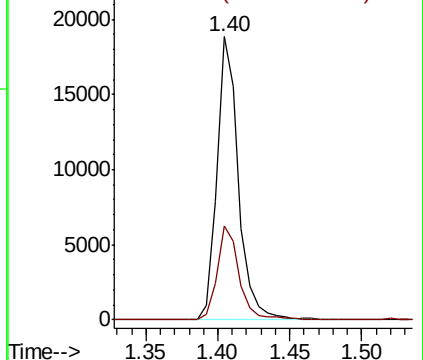
62 100

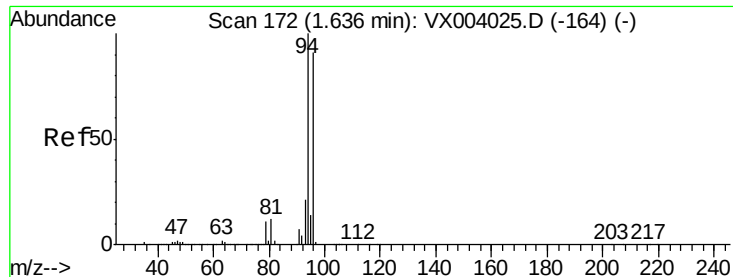
64 33.0 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 4.15 ug/l

RT: 1.64 min Scan# 172

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 11621

Ion Ratio Lower Upper

94 100

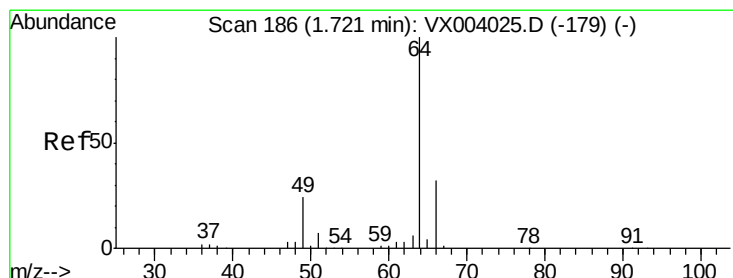
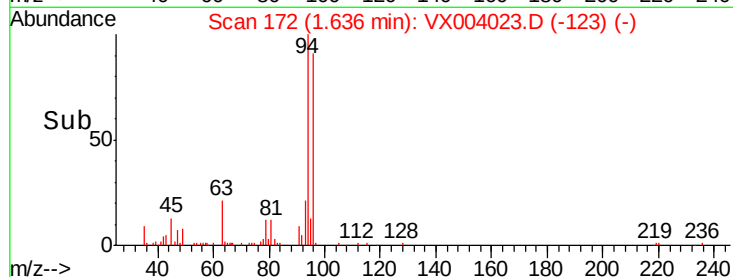
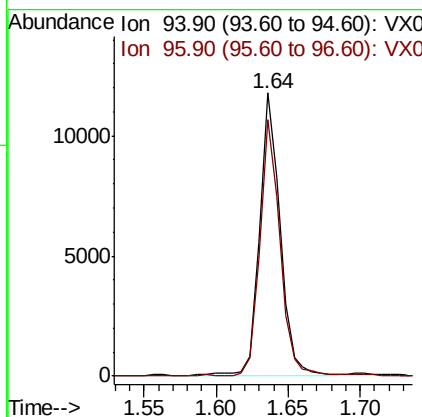
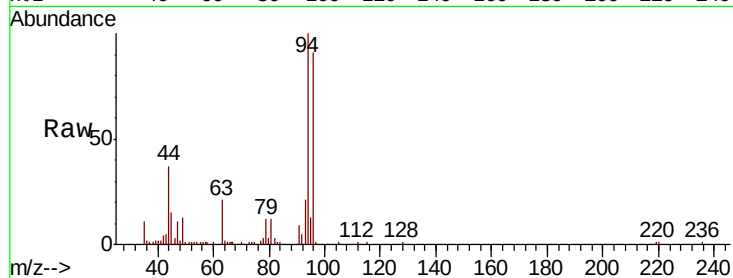
96 90.5 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

8/15/2018 4:49:51 PM



#6

Chloroethane

Concen: 6.08 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX004023.D

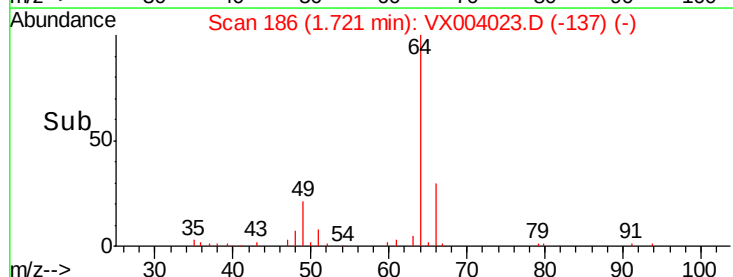
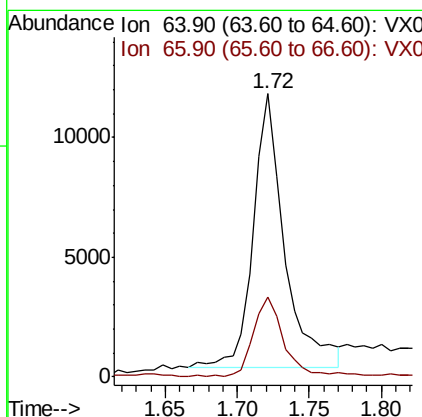
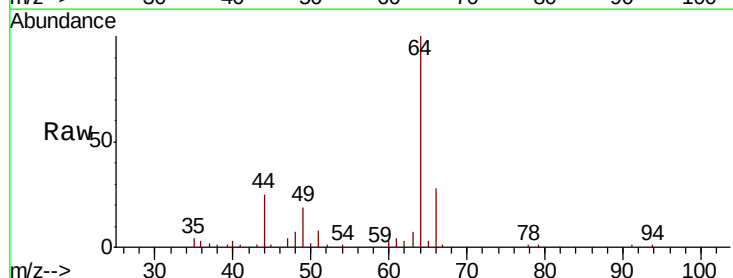
Acq: 14 Aug 2018 11:08

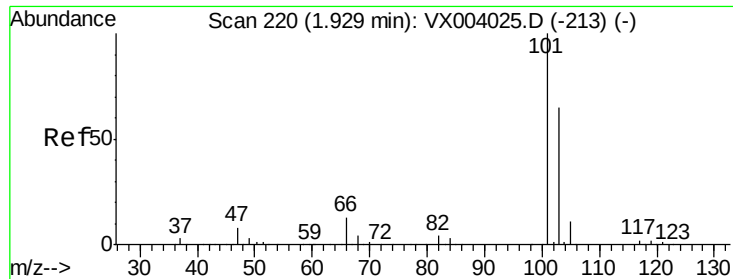
Tgt Ion: 64 Resp: 17078

Ion Ratio Lower Upper

64 100

66 29.1 26.5 39.7





#7

Trichlorofluoromethane

Concen: 4.85 ug/l

RT: 1.93 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 28151

Ion Ratio Lower Upper

101 100

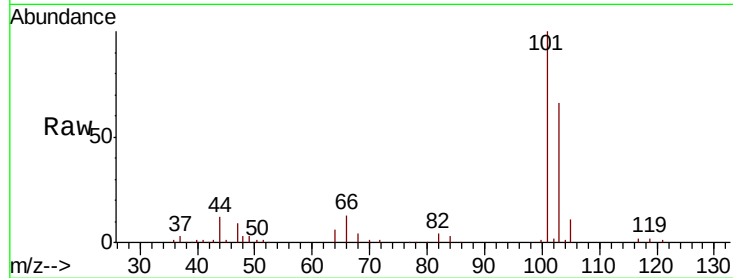
103 65.9 52.3 78.5

Manual Integrations

APPROVED

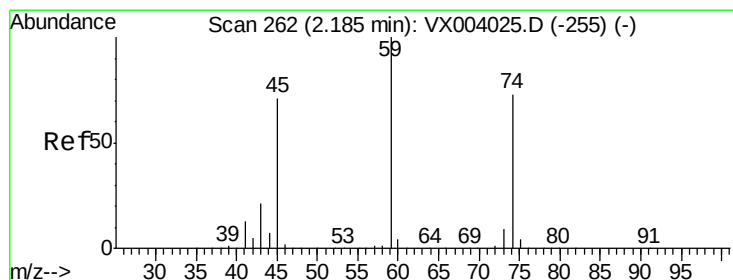
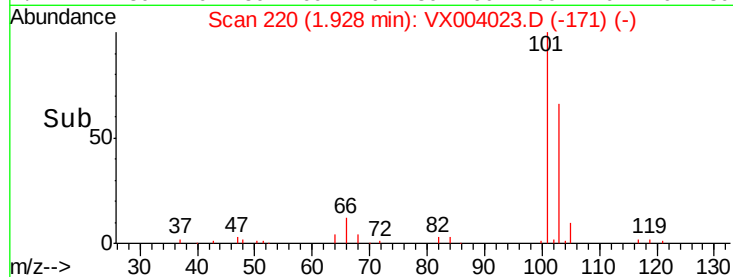
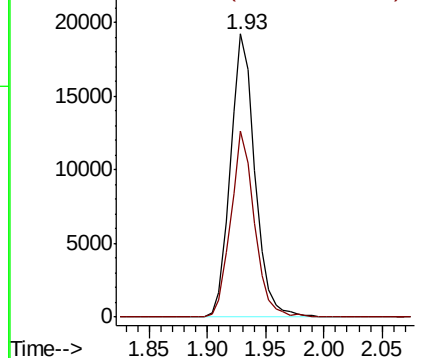
MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 4.67 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.00 min

Lab File: VX004023.D

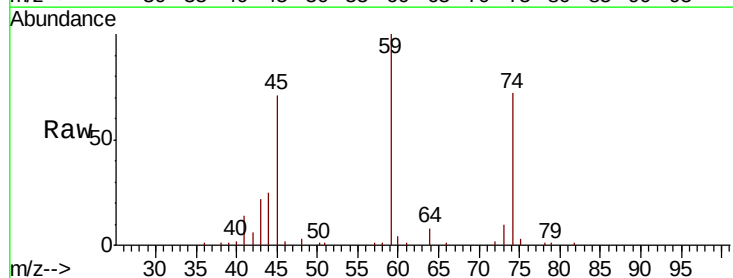
Acq: 14 Aug 2018 11:08

Tgt Ion: 74 Resp: 12185

Ion Ratio Lower Upper

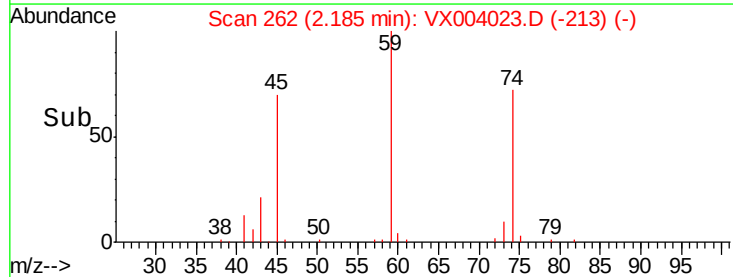
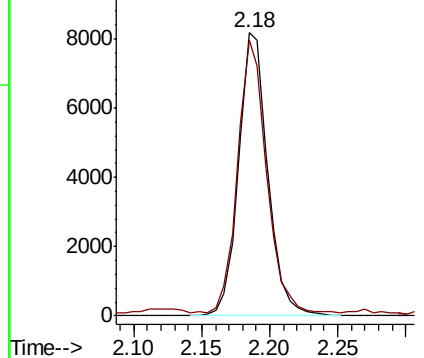
74 100

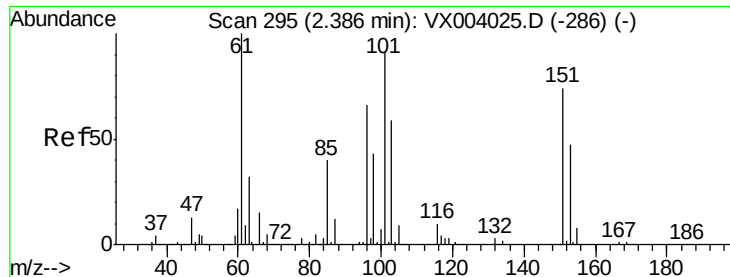
45 95.7 48.3 144.9



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: 4.91 ug/l

RT: 2.39 min Scan# 295

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

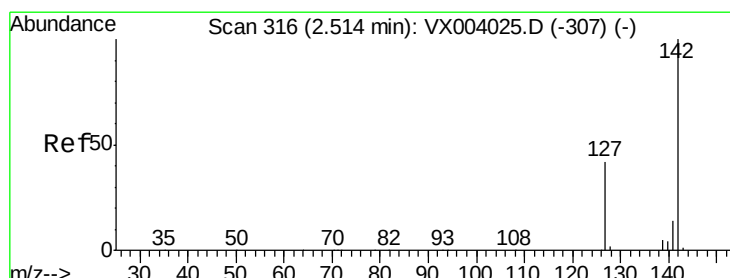
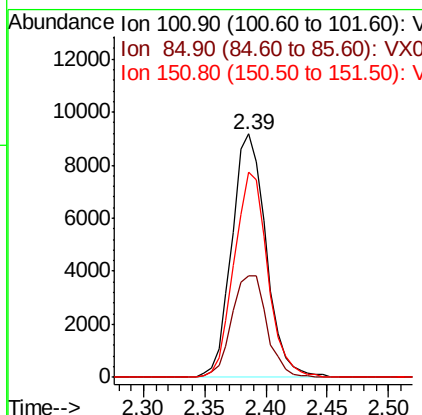
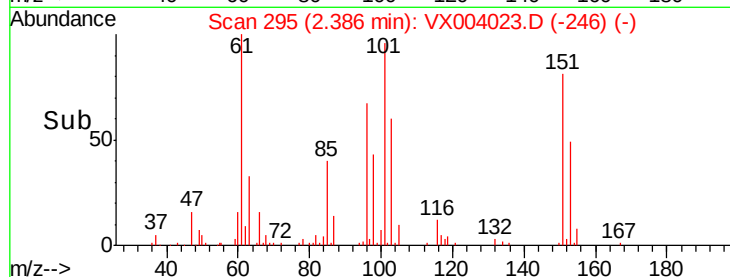
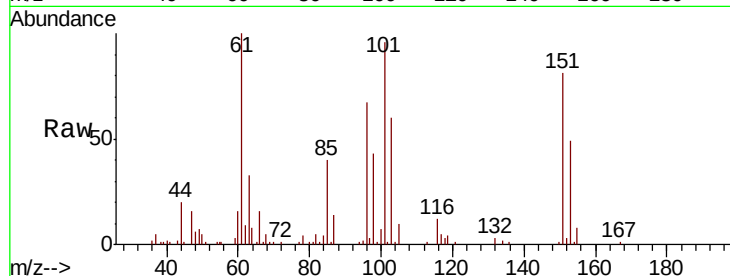
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	17806
Ion Ratio	Lower	Upper	
101	100		
85	42.8	34.2	51.4
151	82.8	65.0	97.4

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#10

Methyl Iodide

Concen: 2.83 ug/l

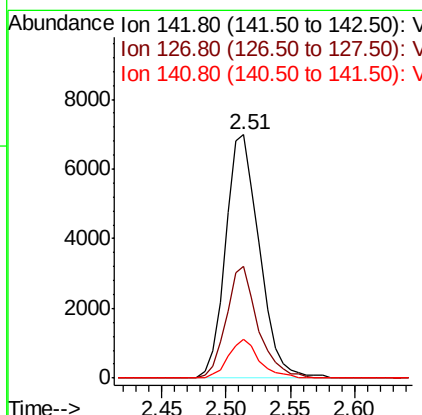
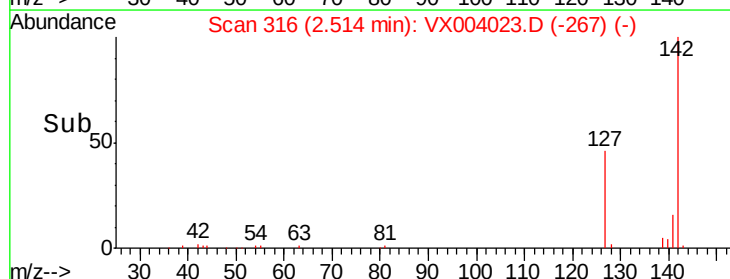
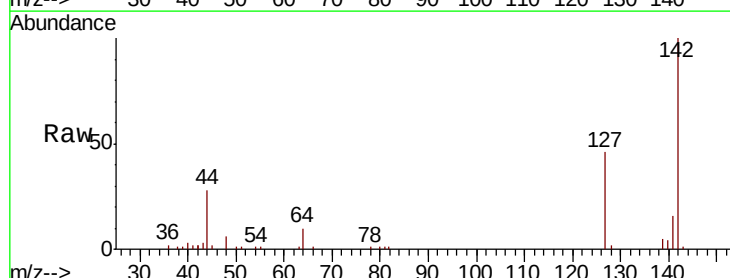
RT: 2.51 min Scan# 316

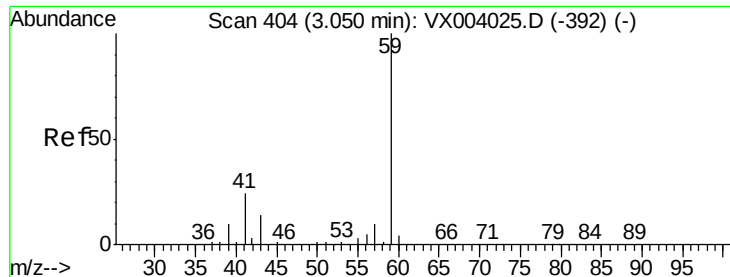
Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion:	142	Resp:	12781
Ion Ratio	Lower	Upper	
142	100		
127	43.2	33.1	49.7
141	14.5	11.1	16.7





#11

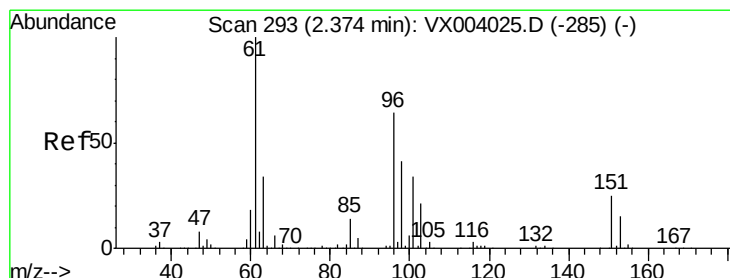
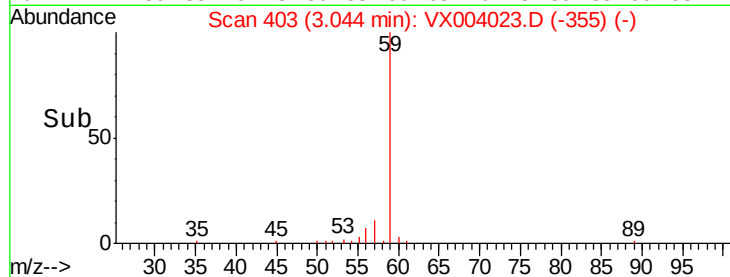
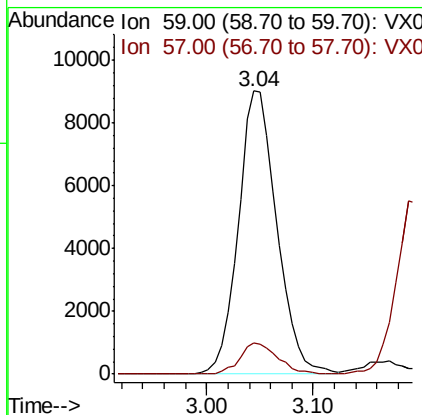
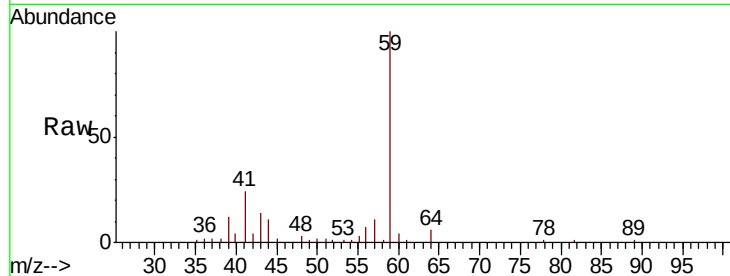
Tert butyl alcohol
Concen: 22.49 ug/l
RT: 3.04 min Scan# 403
Delta R.T. -0.01 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.1	12.1

Manual Integrations
APPROVED

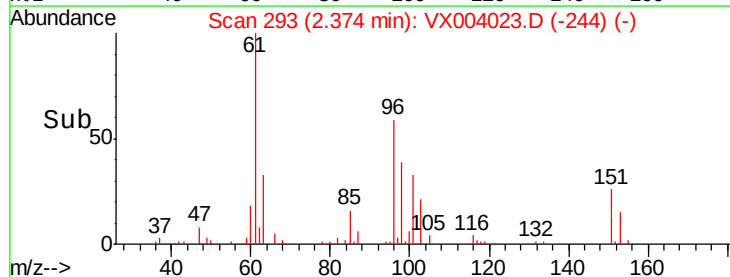
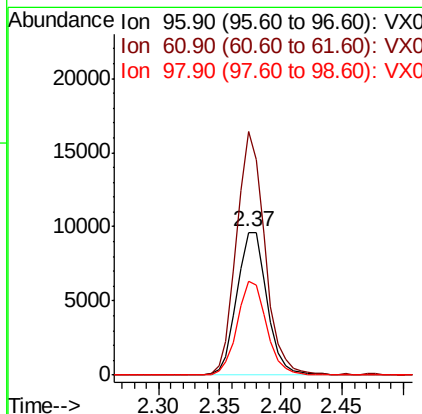
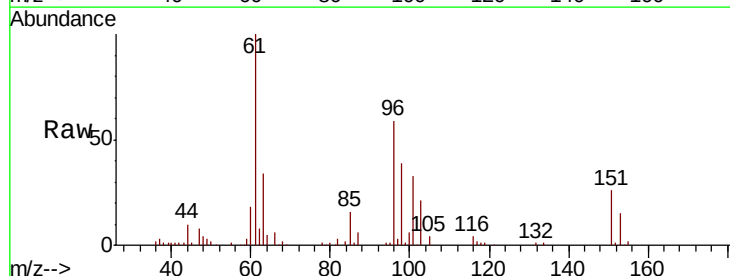
MMDadoda
8/15/2018 4:49:51 PM

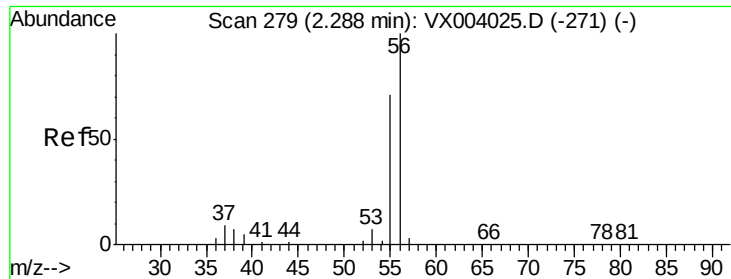


#12

1,1-Dichloroethene
Concen: 4.80 ug/l
RT: 2.37 min Scan# 293
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.2	131.3	196.9
98	65.7	51.8	77.6





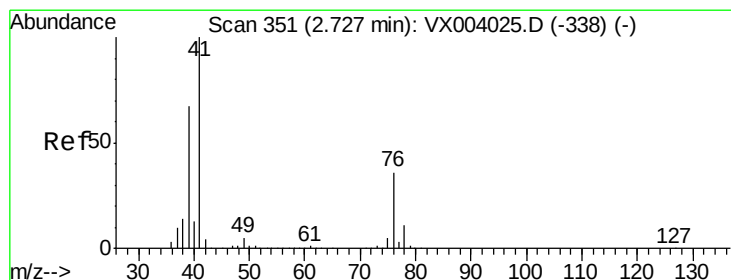
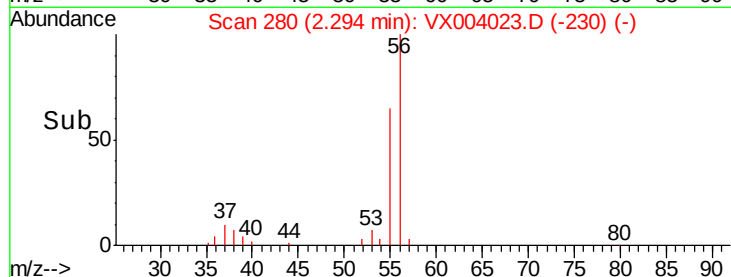
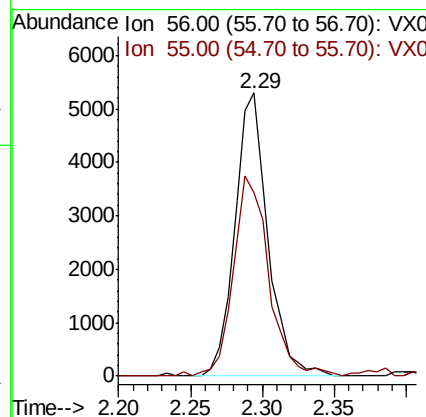
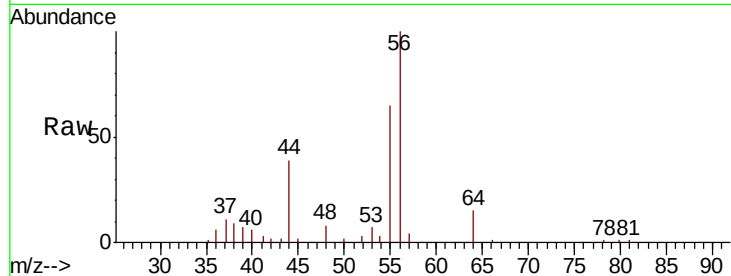
#13
Acrolein
Concen: 15.10 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
55	76.2	56.1	84.1

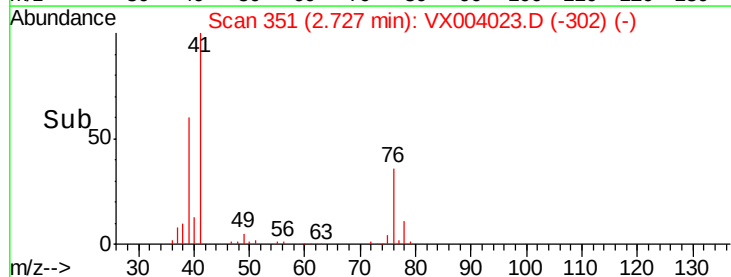
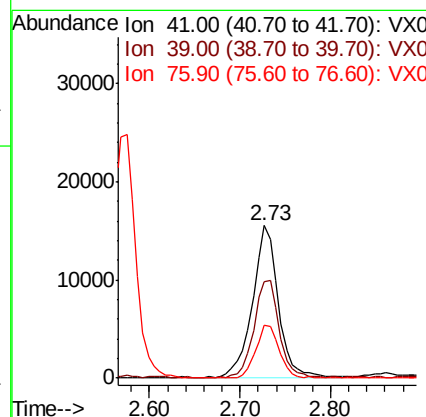
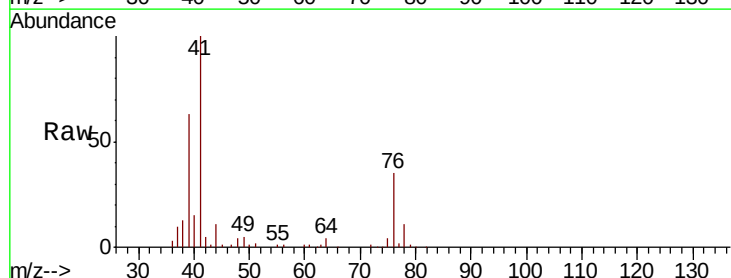
Manual Integrations
APPROVED

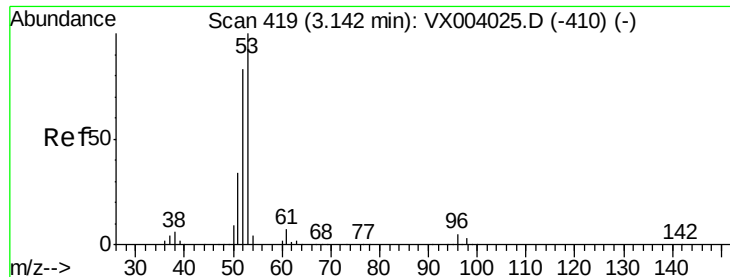
MMDadoda
8/15/2018 4:49:51 PM



#14
Allyl chloride
Concen: 4.68 ug/l
RT: 2.73 min Scan# 351
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
41	100		
39	60.5	47.4	71.0
76	31.1	26.0	39.0





#15

Acrylonitrile

Concen: 23.04 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

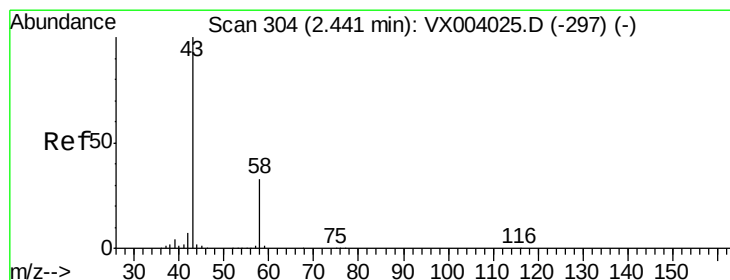
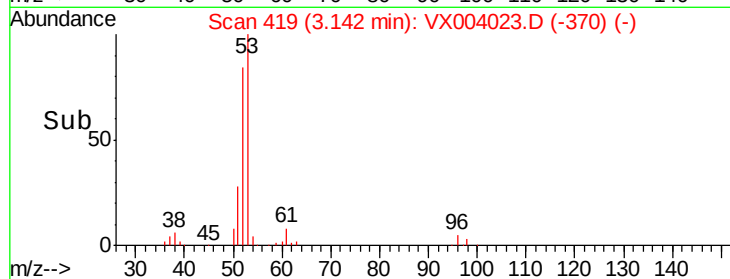
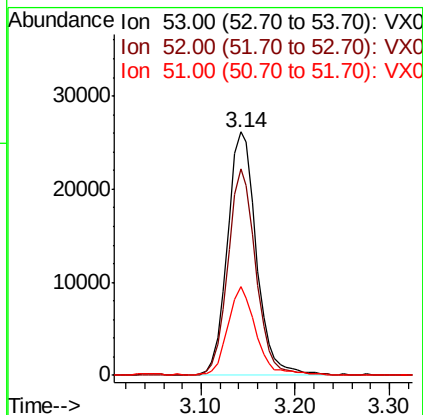
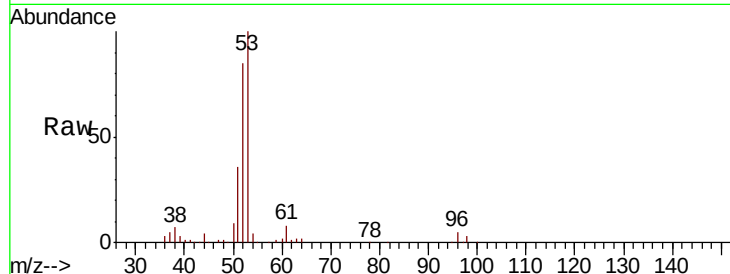
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	55957
Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.3	97.9
51	35.0	27.9	41.9

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#16

Acetone

Concen: 23.11 ug/l

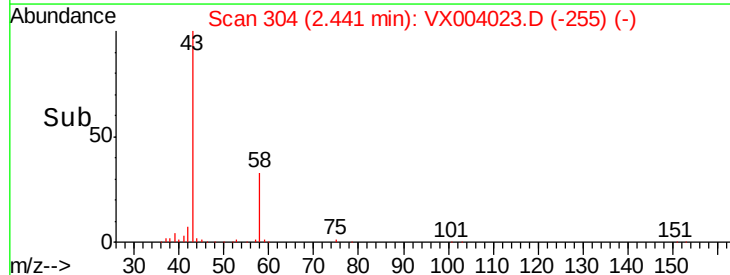
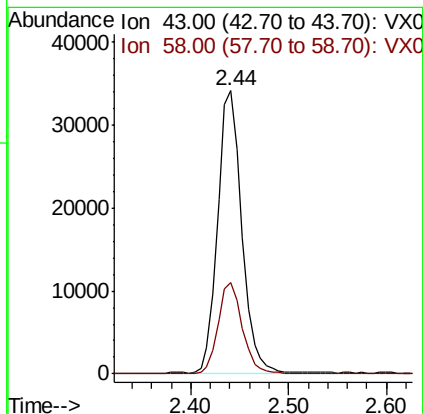
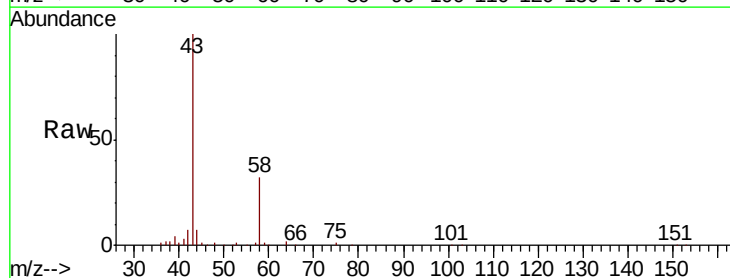
RT: 2.44 min Scan# 304

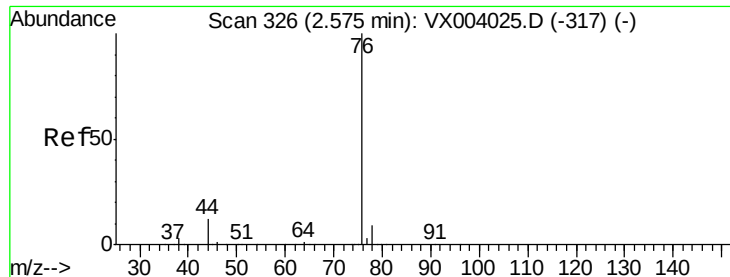
Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion:	43	Resp:	58215
Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.4	39.6





#17

Carbon Disulfide

Concen: 4.16 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 76 Resp: 43526

Ion Ratio Lower Upper

76 100

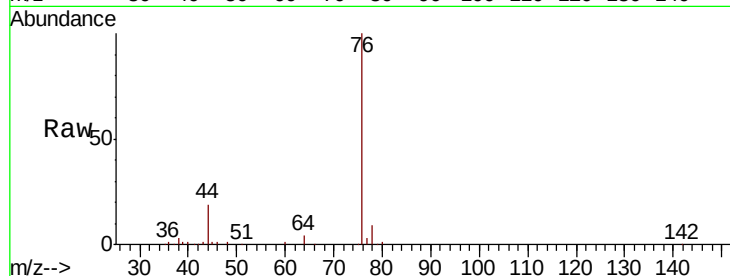
78 9.2 7.5 11.3

Manual Integrations

APPROVED

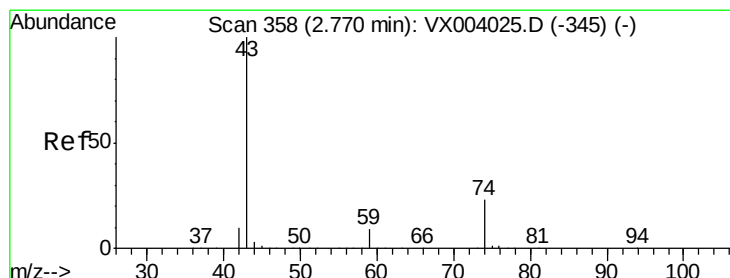
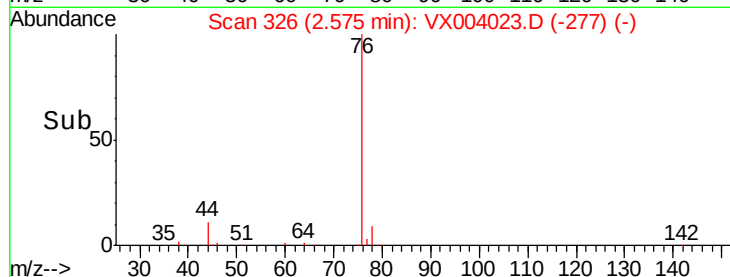
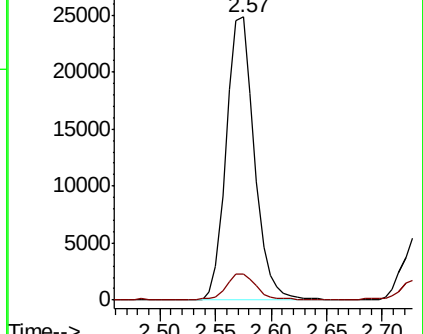
MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 4.56 ug/l

RT: 2.77 min Scan# 358

Delta R.T. -0.00 min

Lab File: VX004023.D

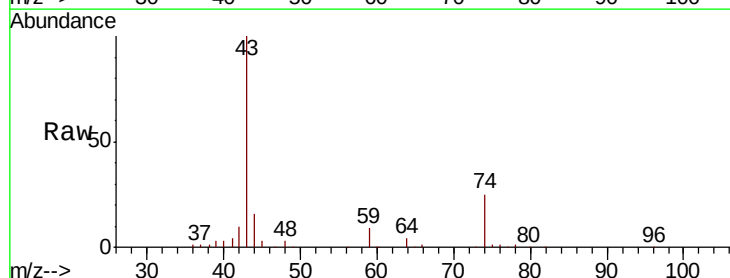
Acq: 14 Aug 2018 11:08

Tgt Ion: 43 Resp: 25019

Ion Ratio Lower Upper

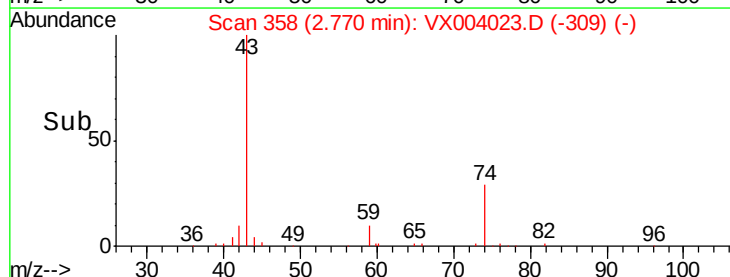
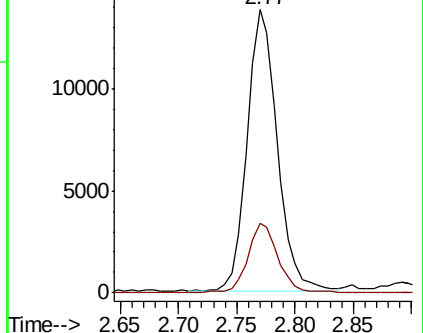
43 100

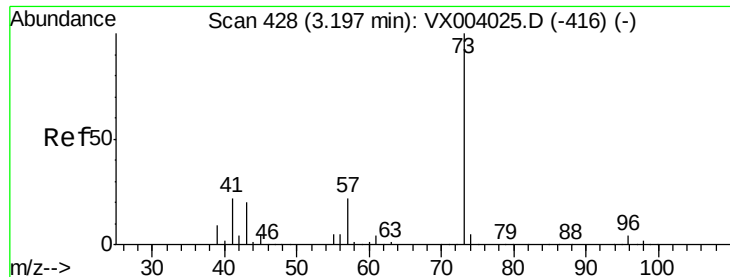
74 24.9 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#19

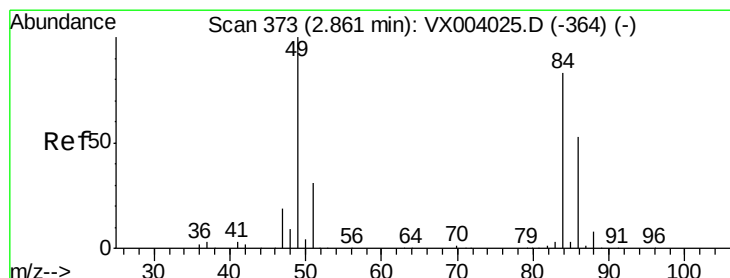
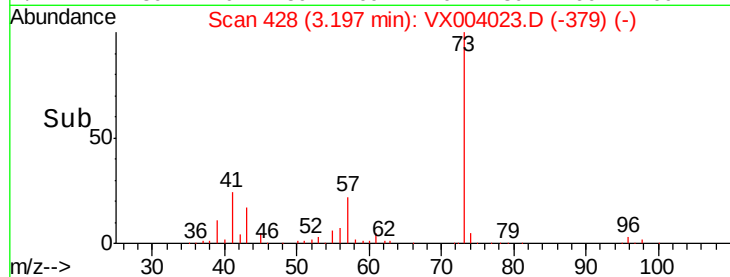
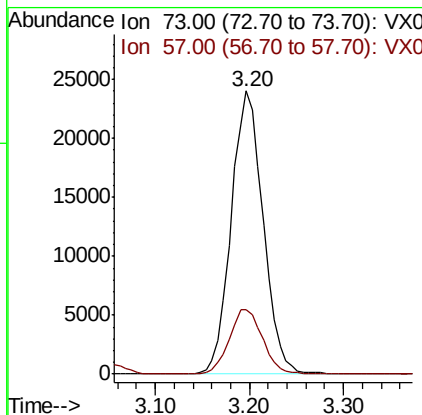
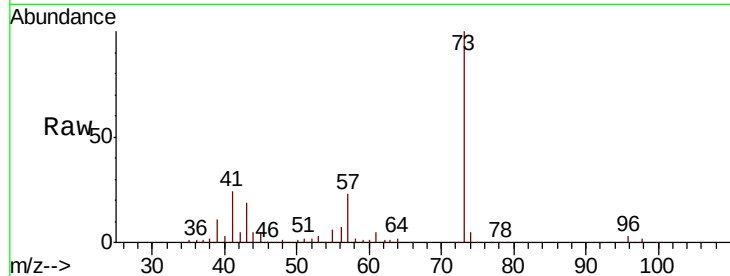
Methyl tert-butyl Ether
 Concen: 4.67 ug/l
 RT: 3.20 min Scan# 428
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC005

Tot Ion	73	Resp	56772
Ion Ratio	100	Lower	Upper
73	100	18.0	27.0
57	22.7		

Manual Integrations
 APPROVED

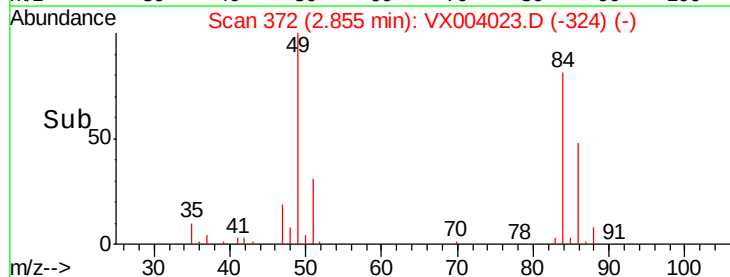
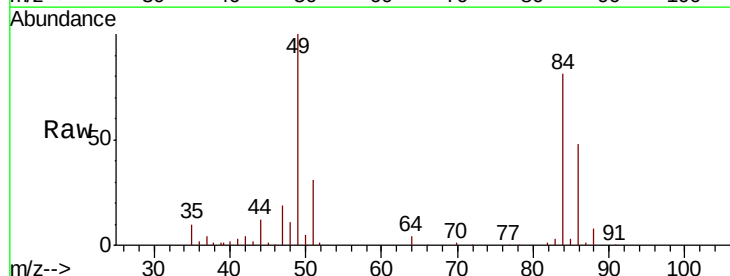
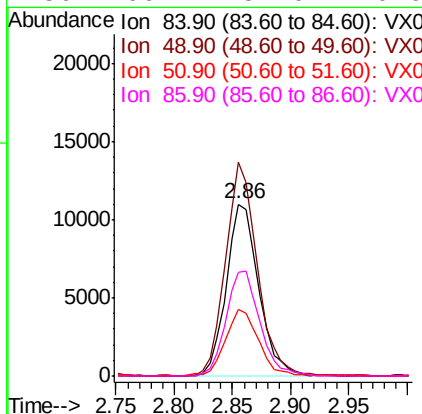
MMDadoda
 8/15/2018 4:49:51 PM

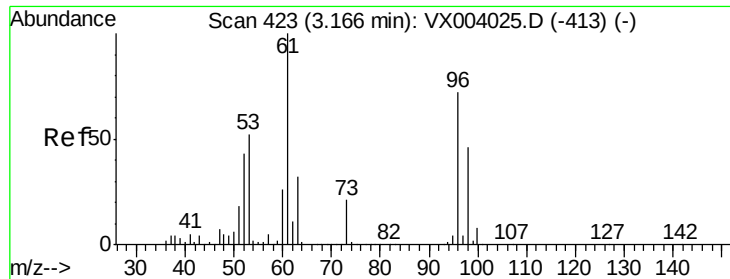


#20

Methylene Chloride
 Concen: 3.48 ug/l
 RT: 2.86 min Scan# 372
 Delta R.T. -0.01 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	84	Resp	21281
Ion Ratio	100	Lower	Upper
84	100	98.9	148.3
49	124.2	29.9	44.9
51	38.2	51.0	76.6
86	60.1		





#21

trans-1,2-Dichloroethene

Concen: 4.71 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 18338

Ion Ratio Lower Upper

96 100

61 140.7 111.8 167.6

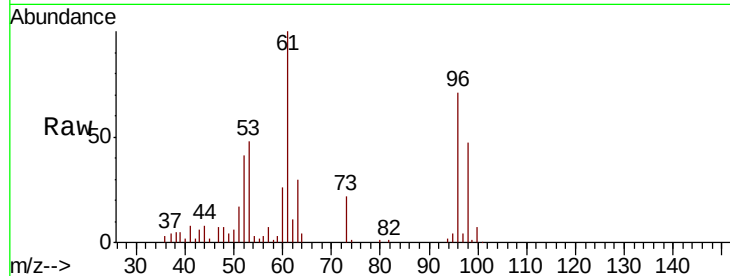
98 66.6 51.8 77.6

Manual Integrations

APPROVED

MMDadoda

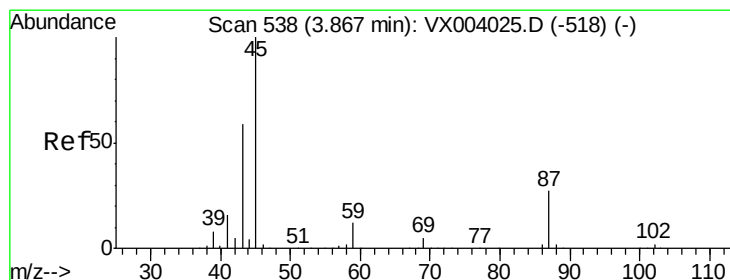
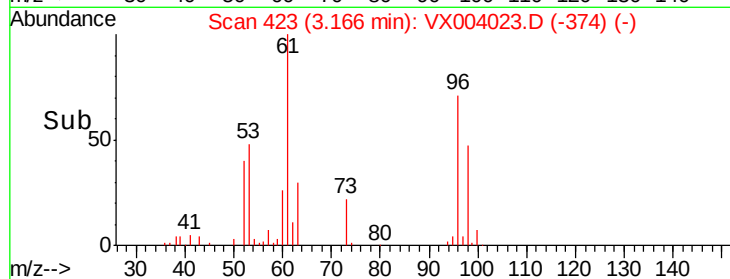
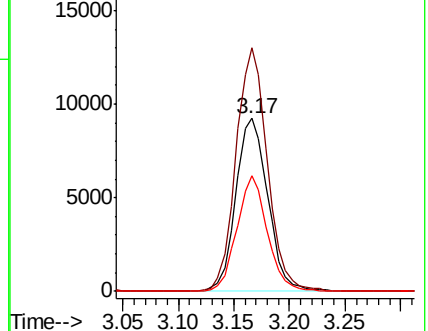
8/15/2018 4:49:51 PM



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 5.00 ug/l

RT: 3.86 min Scan# 537

Delta R.T. -0.01 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion: 45 Resp: 60762

Ion Ratio Lower Upper

45 100

43 67.1 45.3 67.9

87 28.0 22.7 34.1

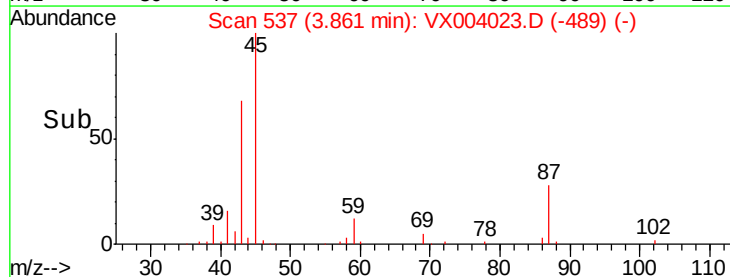
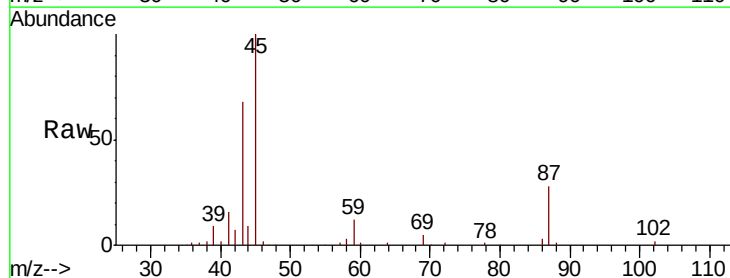
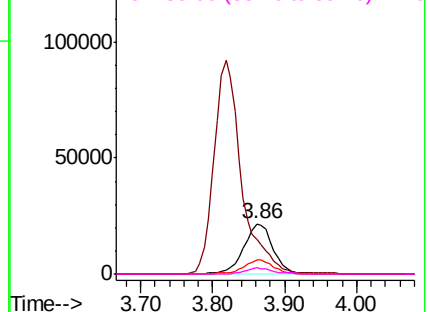
59 11.8 9.6 14.4

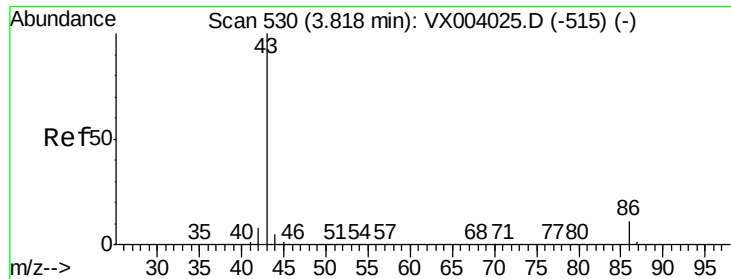
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 24.11 ug/l

RT: 3.82 min Scan# 530

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 243709

Ion Ratio Lower Upper

43 100

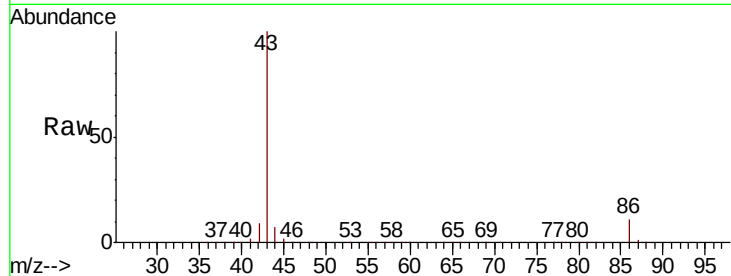
86 11.3 8.9 13.3

Manual Integrations

APPROVED

MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

3.82

100000

80000

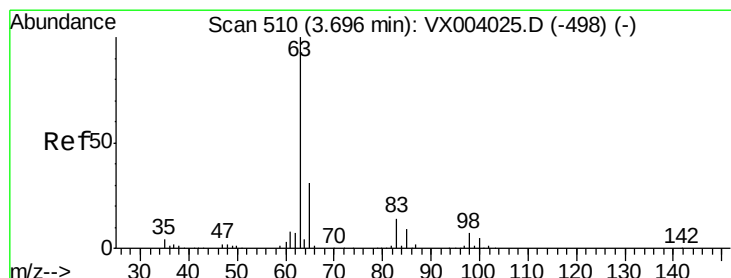
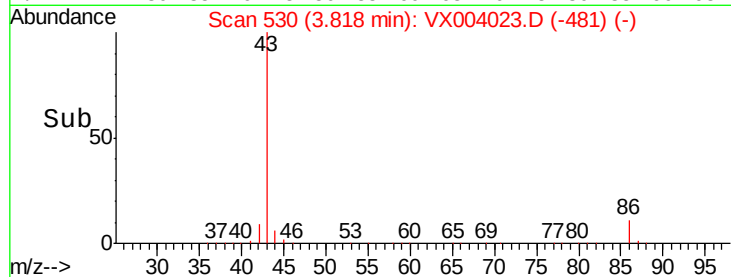
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 4.89 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

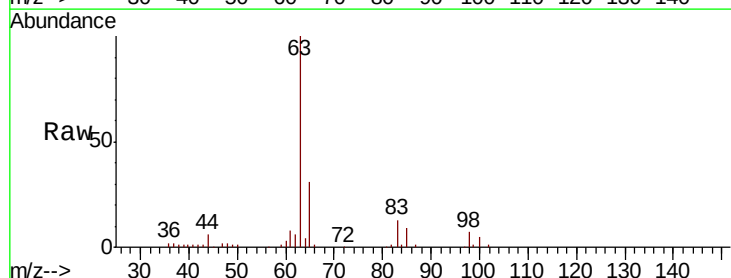
Tgt Ion: 63 Resp: 35259

Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.5

100 5.2 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

20000

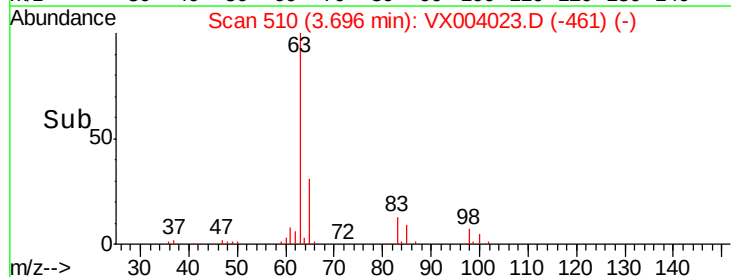
15000

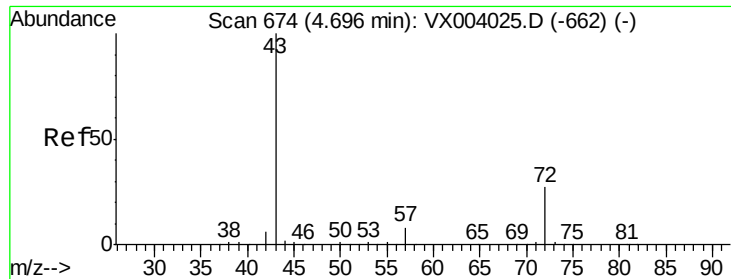
10000

5000

0

Time-->





#25

2-Butanone

Concen: 24.74 ug/l

RT: 4.70 min Scan# 674

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 93725

Ion Ratio Lower Upper

43 100

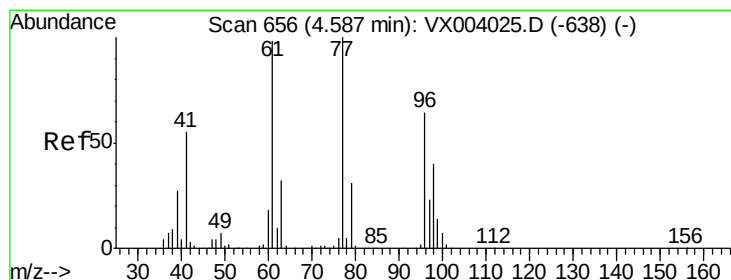
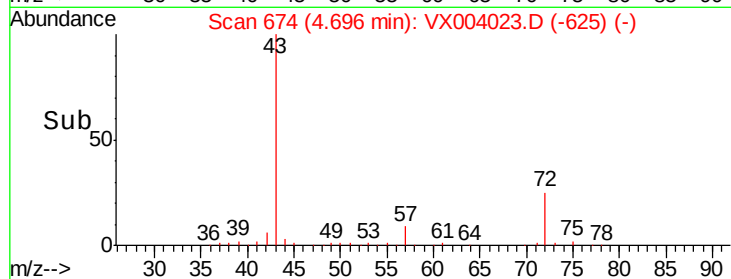
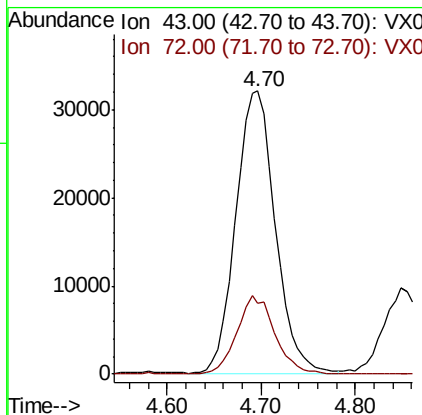
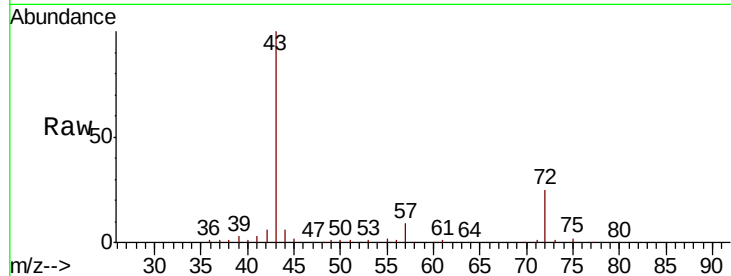
72 25.2 21.4 32.0

Manual Integrations

APPROVED

MMDadoda

8/15/2018 4:49:51 PM



#26

2,2-Dichloropropane

Concen: 5.22 ug/l

RT: 4.58 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX004023.D

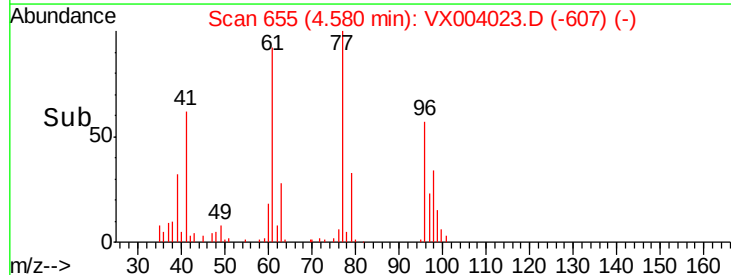
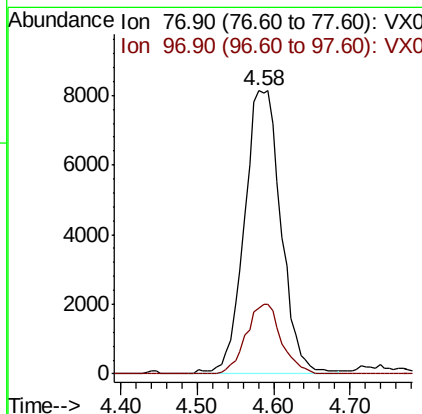
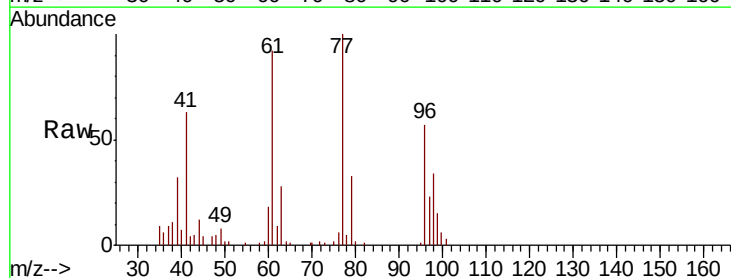
Acq: 14 Aug 2018 11:08

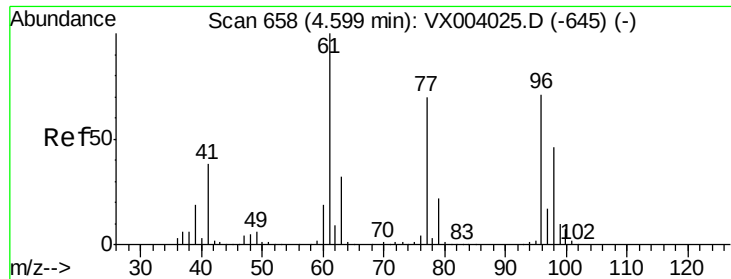
Tgt Ion: 77 Resp: 27189

Ion Ratio Lower Upper

77 100

97 23.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 5.07 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

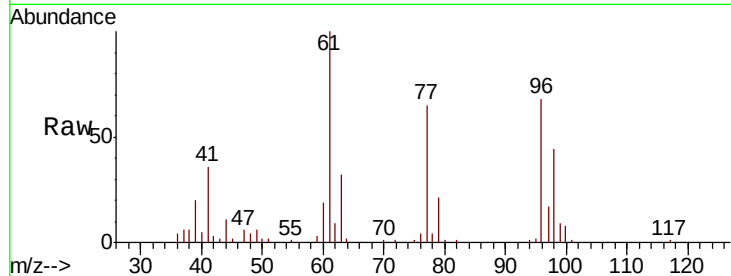
ClientSampleId :

VSTDIC005

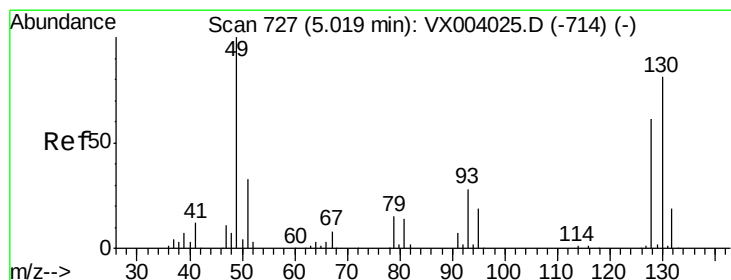
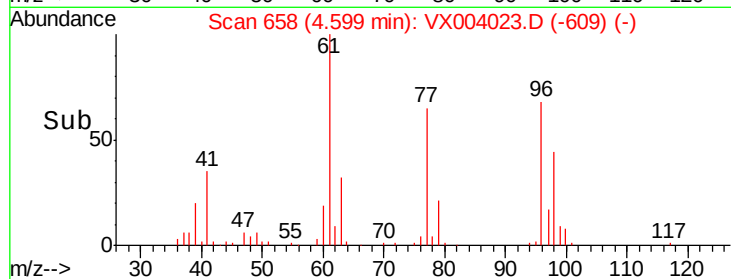
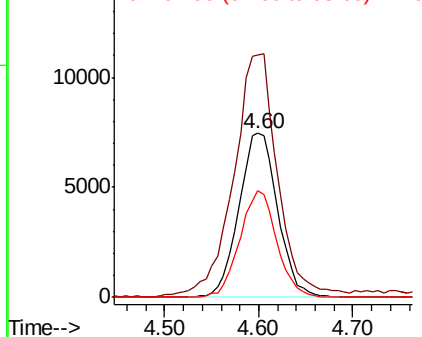
Tot Ion:	96	Resp:	21399
Ion	Ratio	Lower	Upper
96	100		
61	170.6	0.0	293.0
98	61.9	0.0	131.8

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: 5.10 ug/l

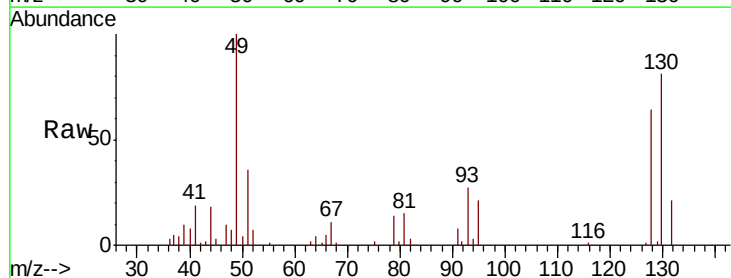
RT: 5.02 min Scan# 727

Delta R.T. -0.00 min

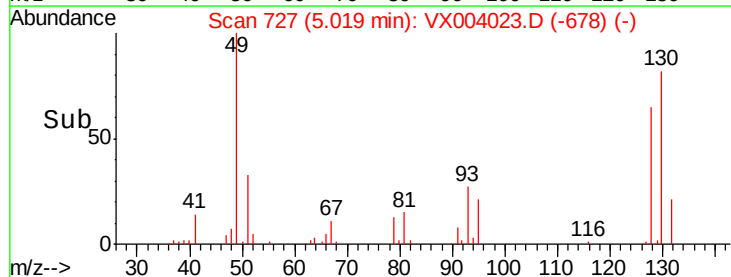
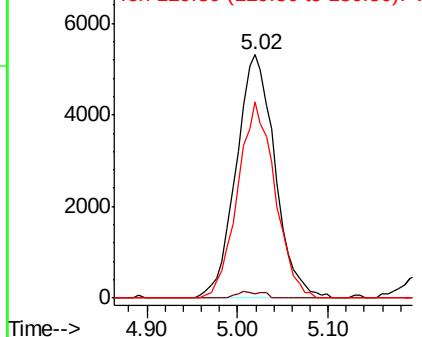
Lab File: VX004023.D

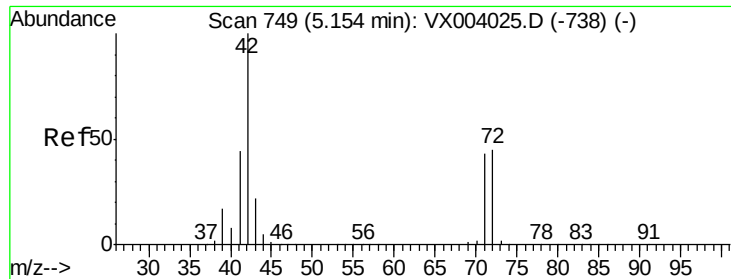
Acq: 14 Aug 2018 11:08

Tgt Ion:	49	Resp:	15751
Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	4.2
130	77.6	66.5	99.7



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





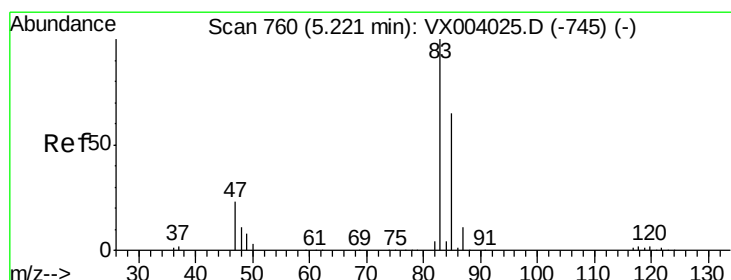
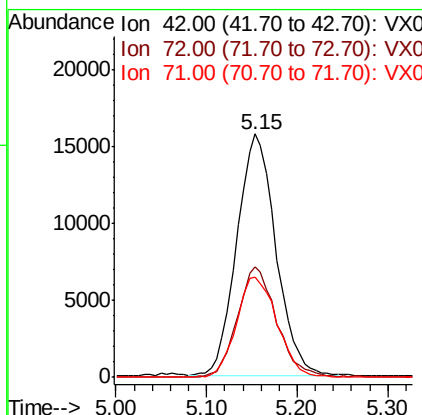
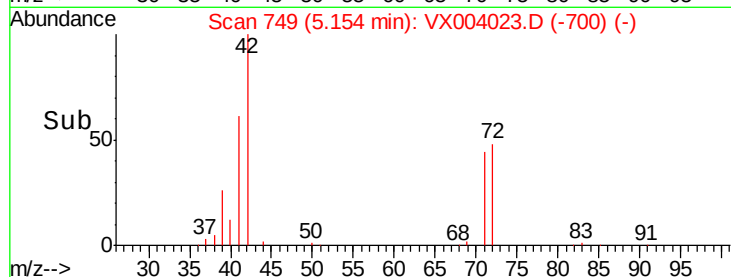
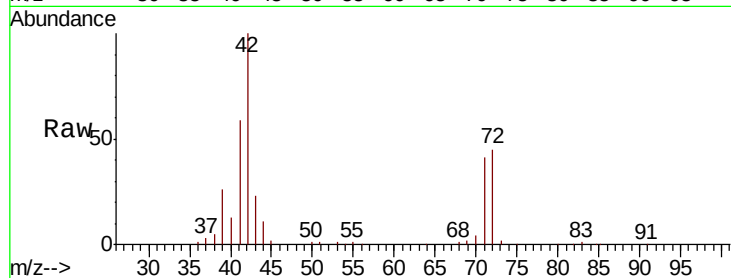
#29
Tetrahydrofuran
Concen: 24.02 ug/l
RT: 5.15 min Scan# 749
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	37.7	56.5
71	43.4	35.0	52.6

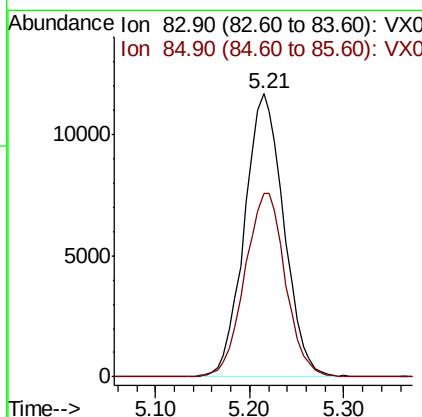
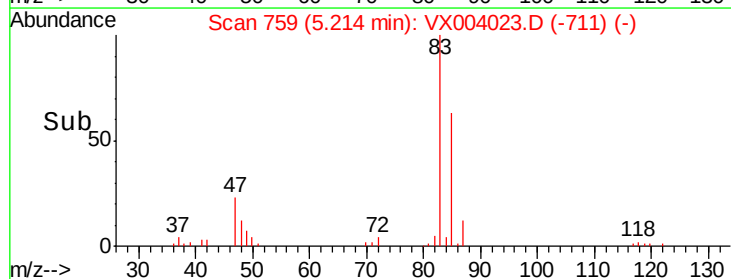
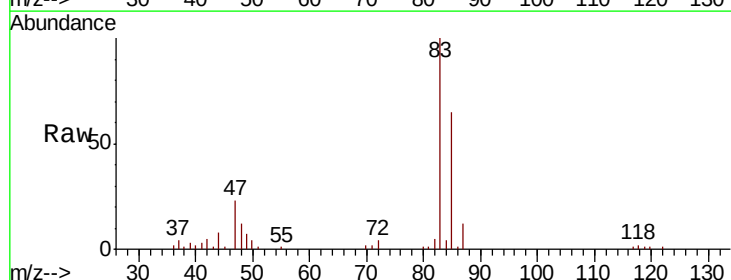
Manual Integrations
APPROVED

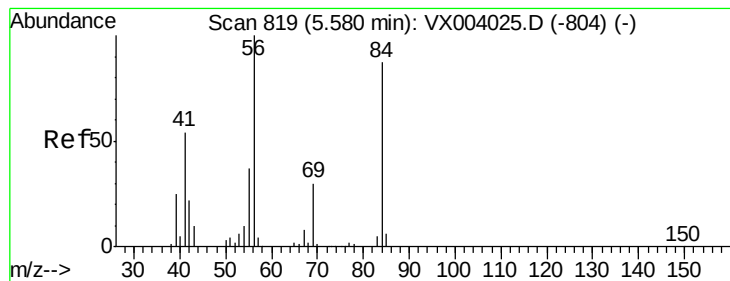
MMDadoda
8/15/2018 4:49:51 PM



#30
Chloroform
Concen: 5.03 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.7	76.1





#31

Cyclohexane

Concen: 4.89 ug/l

RT: 5.57 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

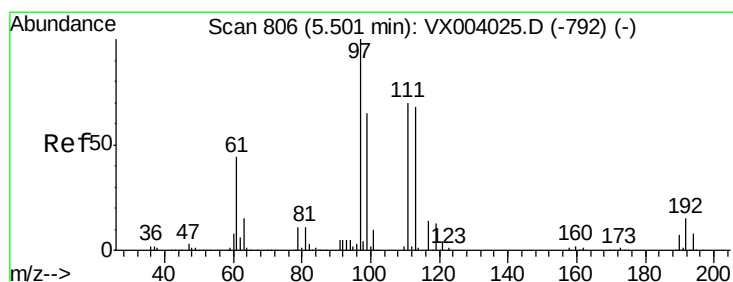
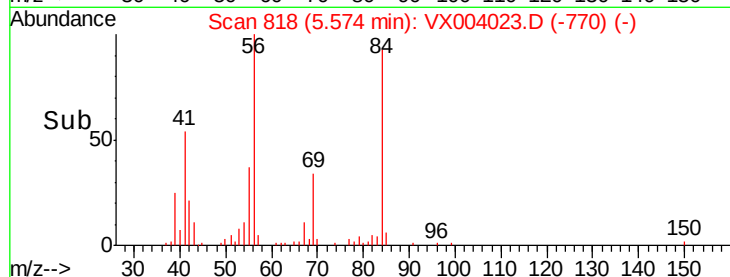
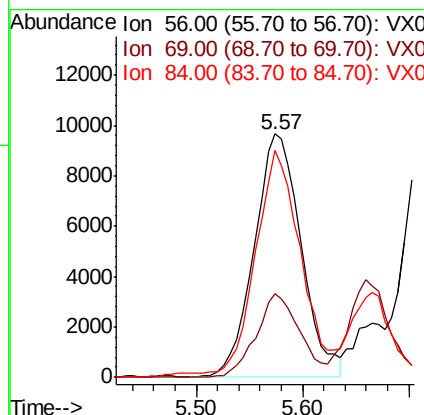
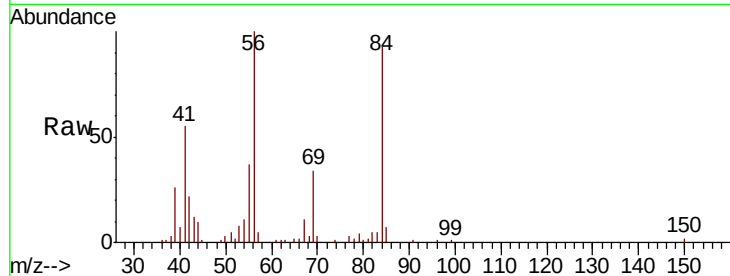
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	29839
Ion Ratio	Lower	Upper	
56	100		
69	34.1	24.9	37.3
84	91.4	71.7	107.5

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#32

1,1,1-Trichloroethane

Concen: 4.90 ug/l

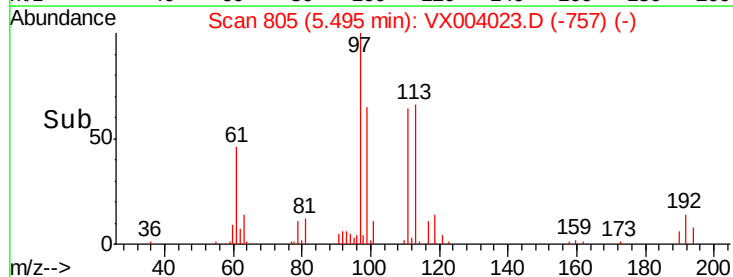
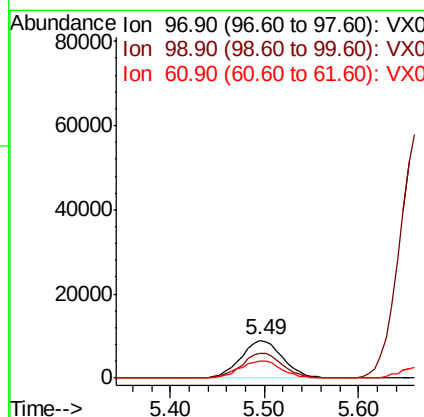
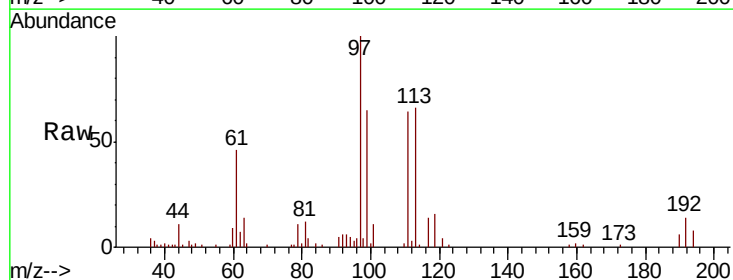
RT: 5.49 min Scan# 805

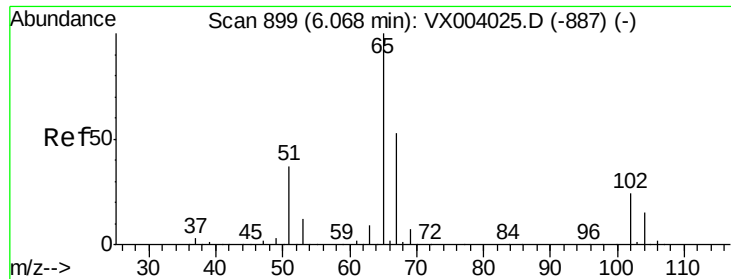
Delta R.T. -0.01 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion:	97	Resp:	27941
Ion Ratio	Lower	Upper	
97	100		
99	65.1	51.8	77.8
61	46.6	34.4	51.6





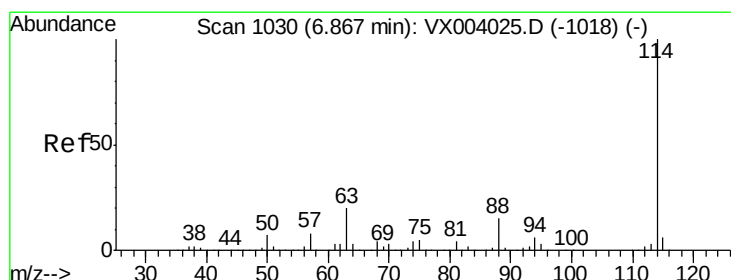
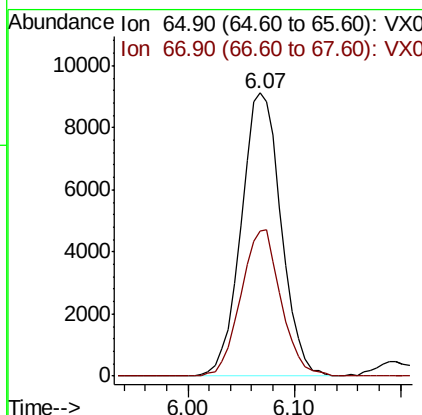
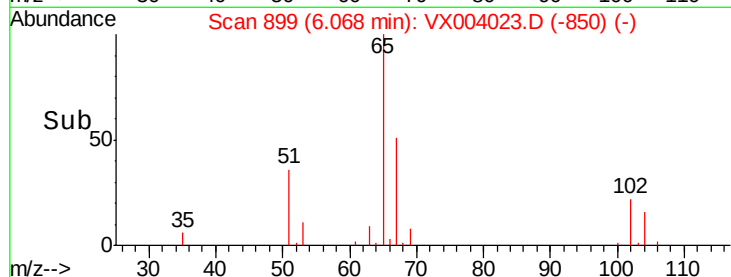
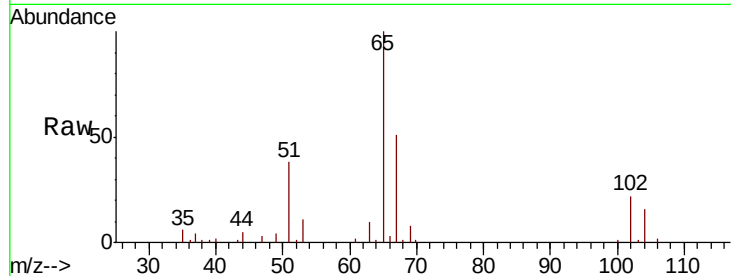
#33
 1,2-Dichloroethane-d4
 Concen: 5.66 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	105.8

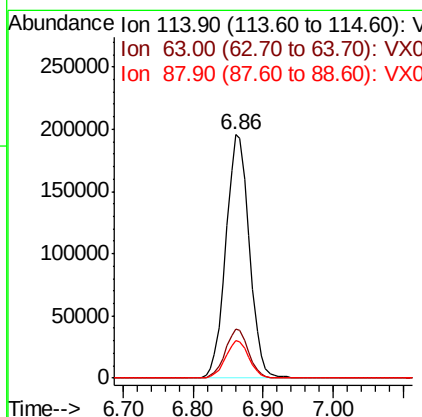
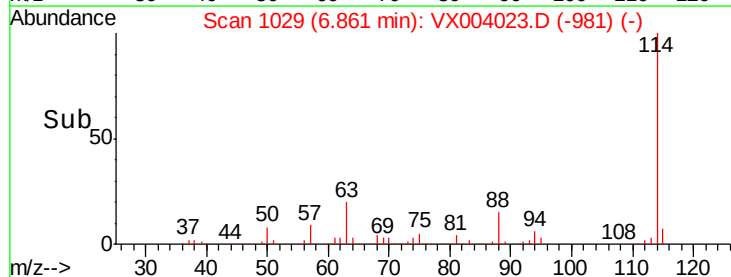
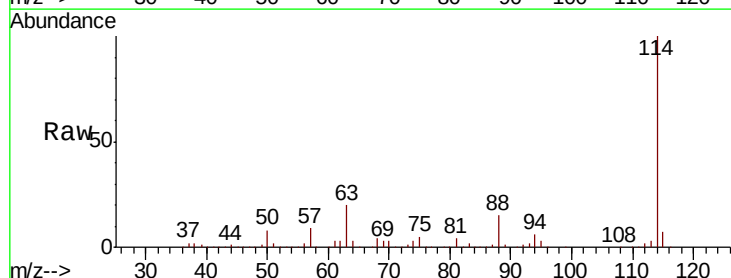
Manual Integrations
 APPROVED

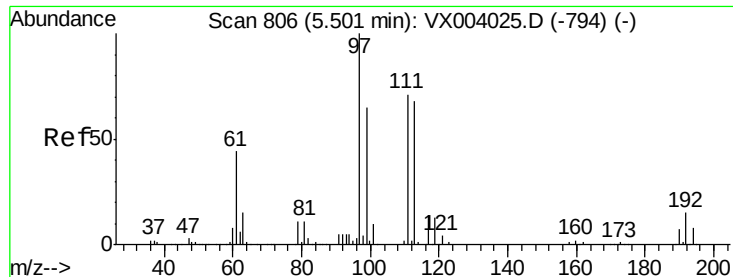
MMDadoda
 8/15/2018 4:49:51 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.0
88	15.4	0.0	32.0





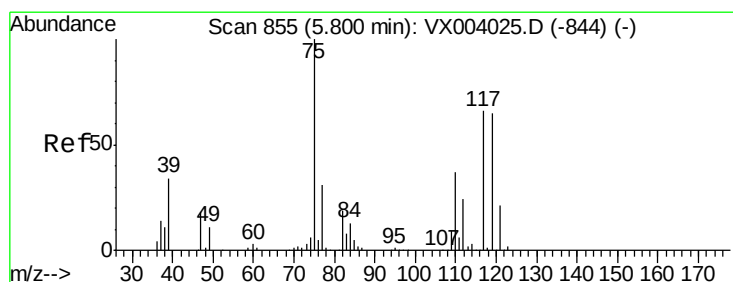
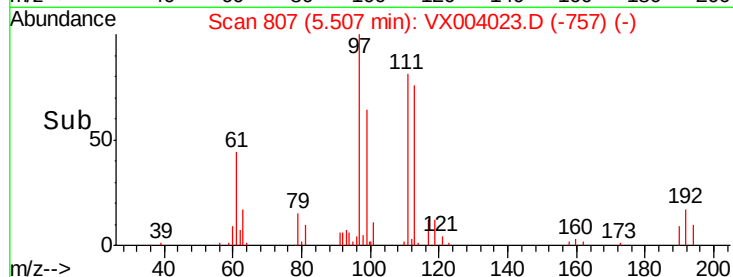
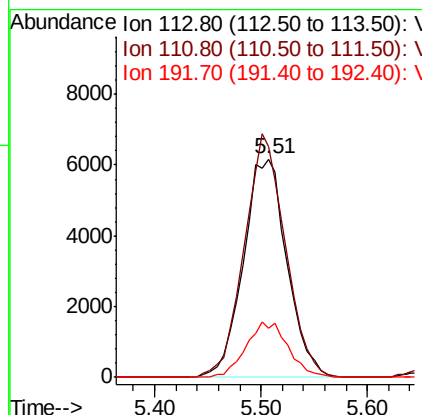
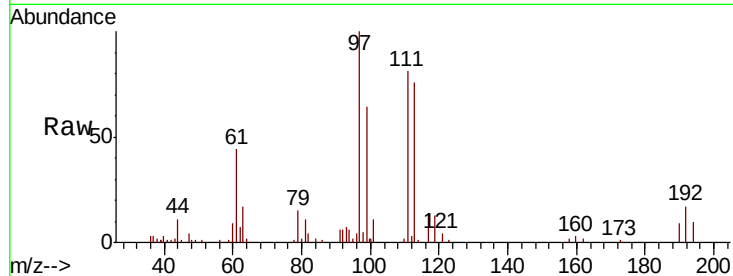
#35
Dibromofluoromethane
Concen: 5.11 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	17676		
111	105.3	82.0	123.0	
192	24.4	19.0	28.4	

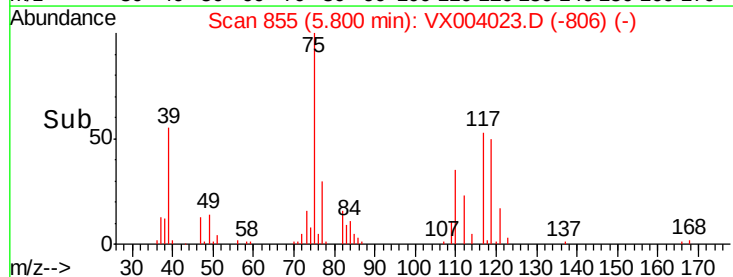
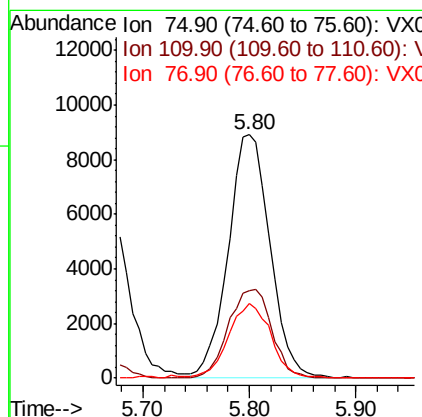
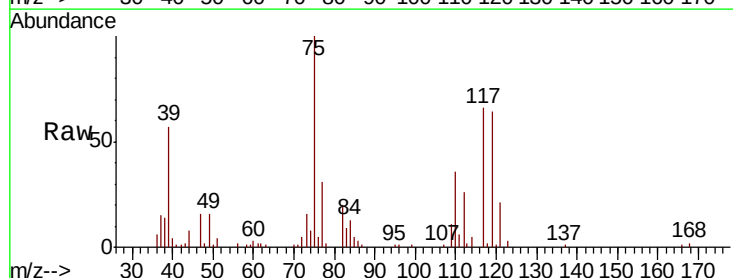
Manual Integrations
APPROVED

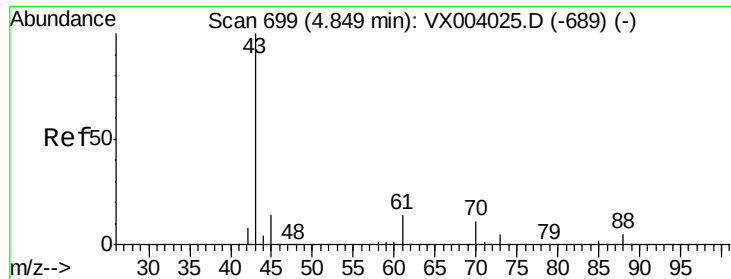
MMDadoda
8/15/2018 4:49:51 PM



#36
1,1-Dichloropropene
Concen: 4.79 ug/l
RT: 5.80 min Scan# 855
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	24500		
110	37.7	18.2	54.6	
77	31.5	25.0	37.4	





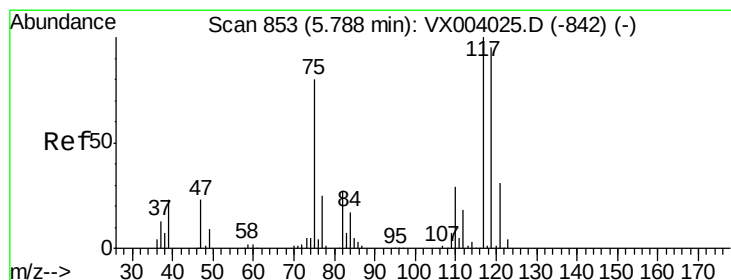
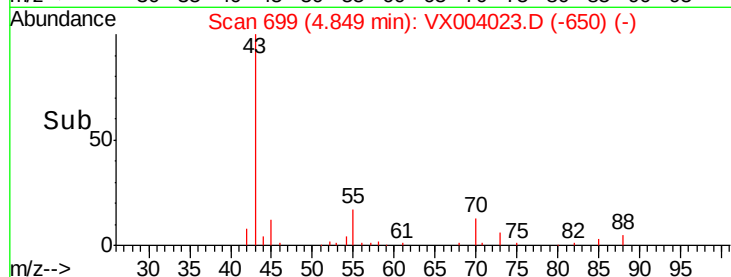
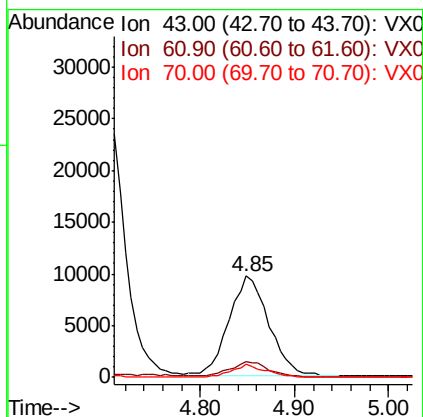
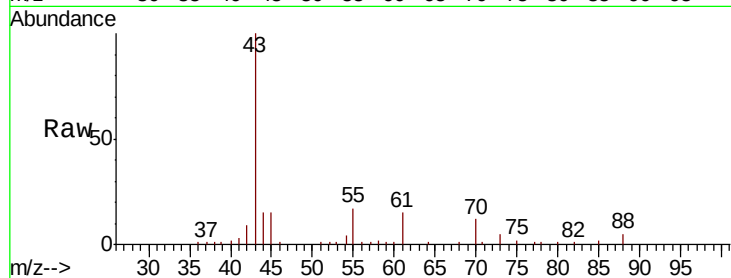
#37
Ethyl Acetate
Concen: 5.08 ug/l
RT: 4.85 min Scan# 699
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.1	11.5	17.3
70	11.2	9.0	13.4

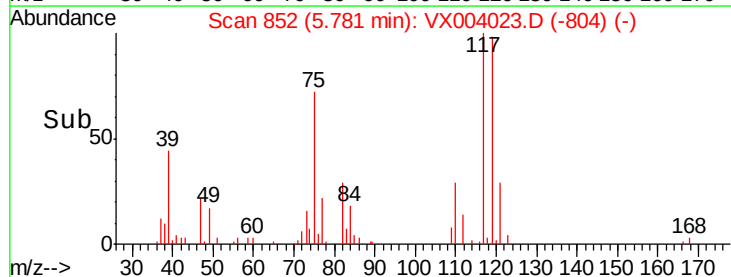
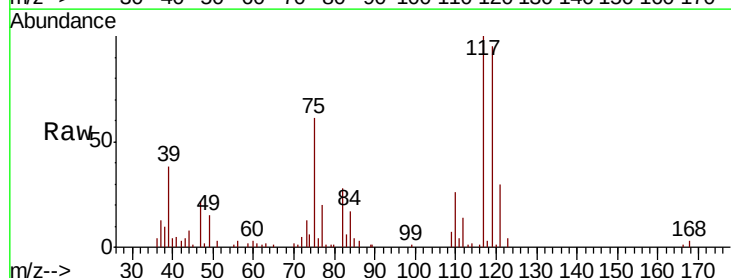
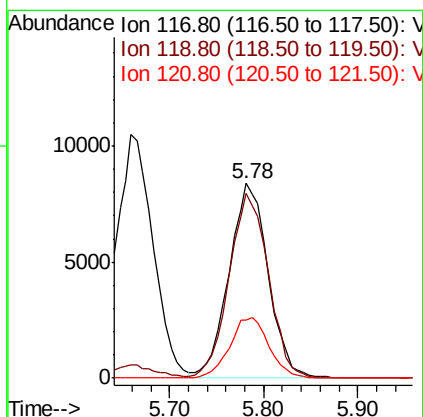
Manual Integrations
APPROVED

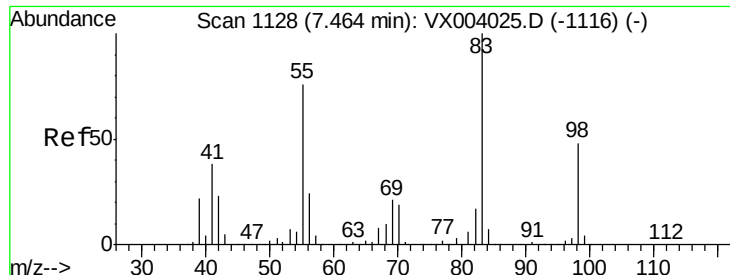
MMDadoda
8/15/2018 4:49:51 PM



#38
Carbon Tetrachloride
Concen: 5.00 ug/l
RT: 5.78 min Scan# 852
Delta R.T. -0.01 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	79.5	119.3
121	29.6	25.0	37.4





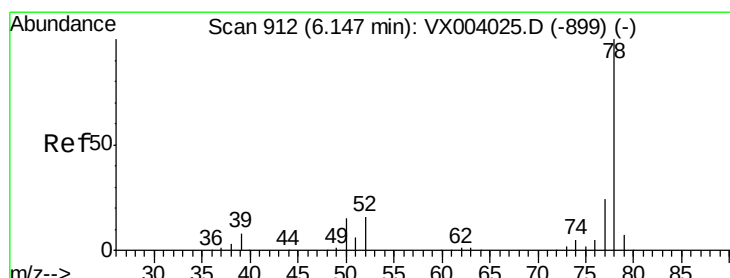
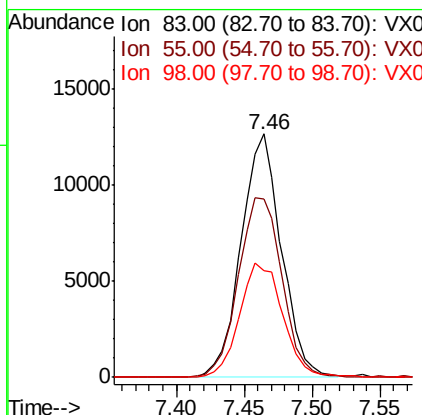
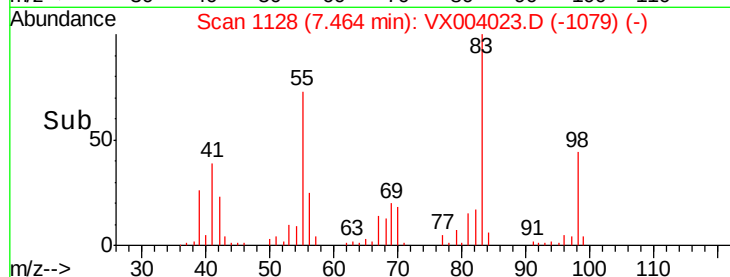
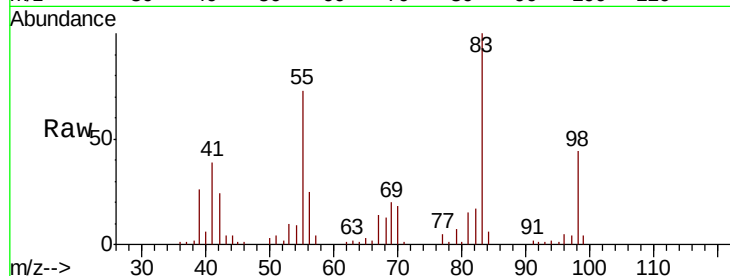
#39
Methylvlcyclohexane
Concen: 4.35 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.2	61.0	91.6
98	44.0	38.6	57.8

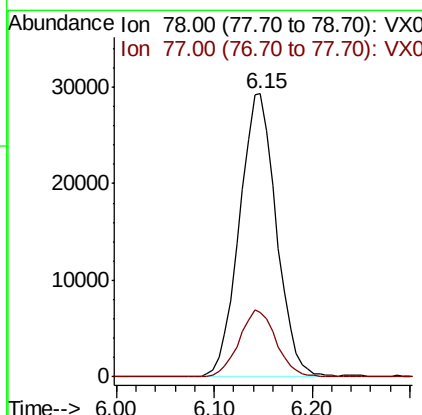
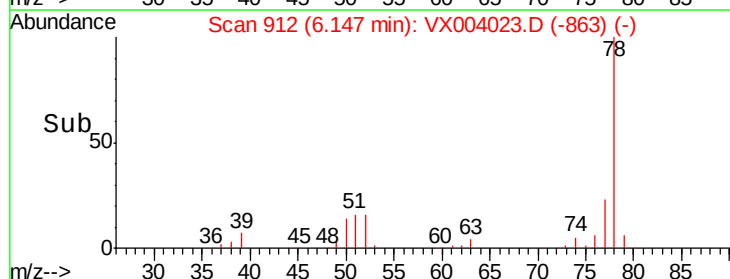
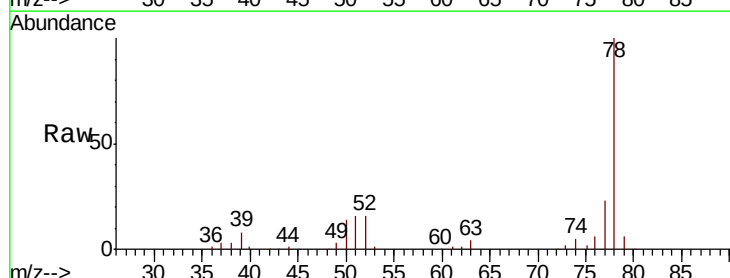
Manual Integrations
APPROVED

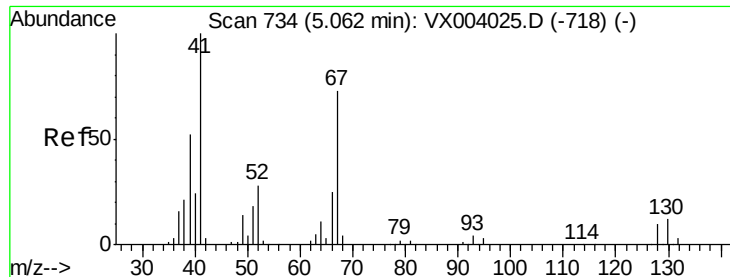
MMDadoda
8/15/2018 4:49:51 PM



#40
Benzene
Concen: 4.99 ug/l
RT: 6.15 min Scan# 912
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.4





#41

Methacrylonitrile

Concen: 5.09 ug/l

RT: 5.06 min Scan# 734

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

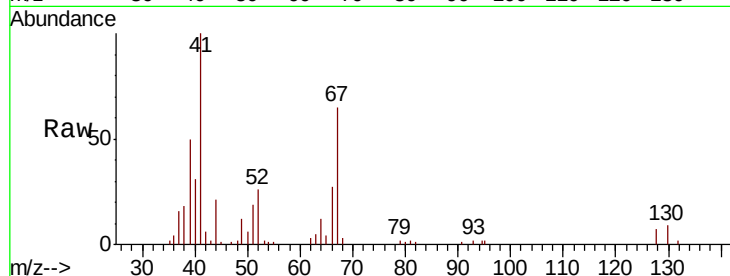
ClientSampled :

VSTDIC005

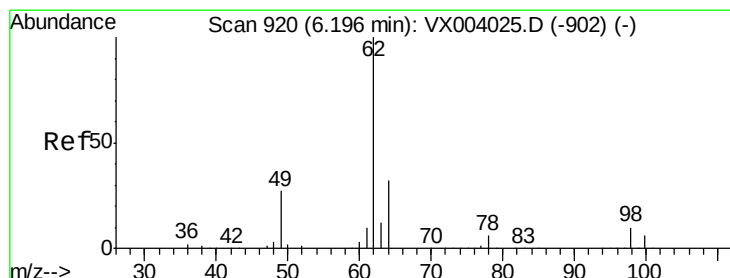
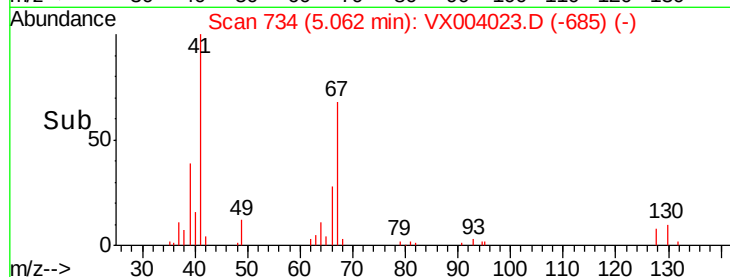
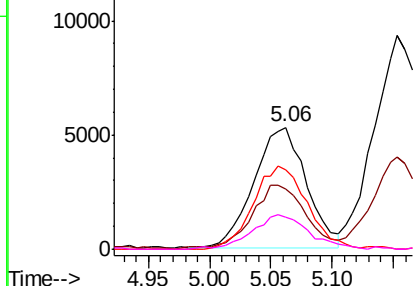
Tot Ion:	41	Resp:	15759
Ion	Ratio	Lower	Upper
41	100		
39	55.4	42.7	64.1
67	70.8	58.9	88.3
52	30.8	22.6	33.8

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 5.32 ug/l

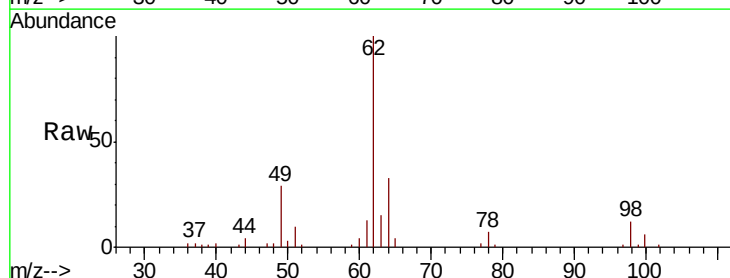
RT: 6.20 min Scan# 920

Delta R.T. -0.00 min

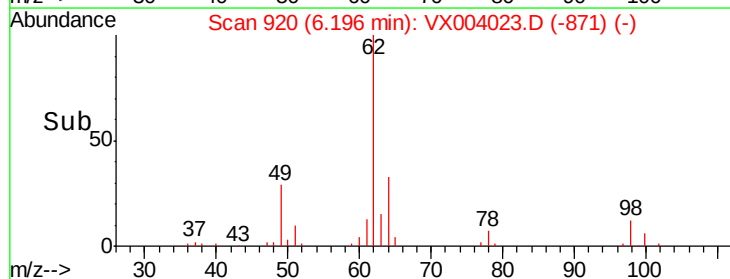
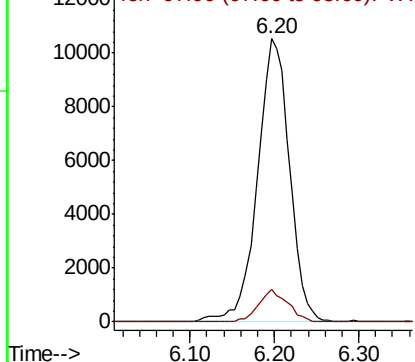
Lab File: VX004023.D

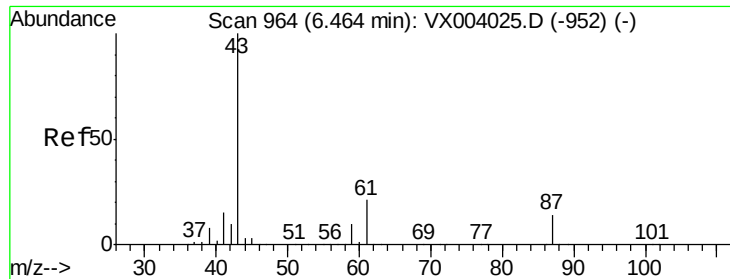
Acq: 14 Aug 2018 11:08

Tgt Ion:	62	Resp:	27646
Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.4



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 4.64 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

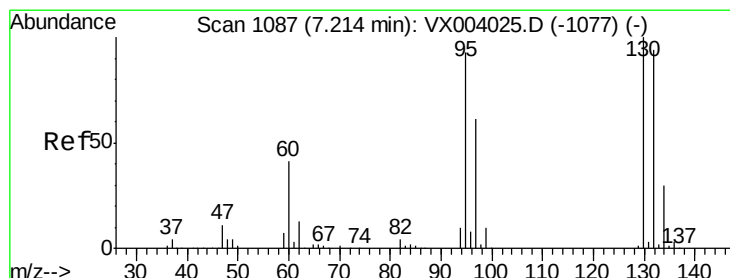
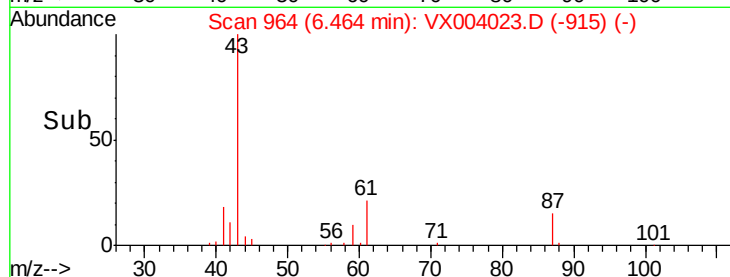
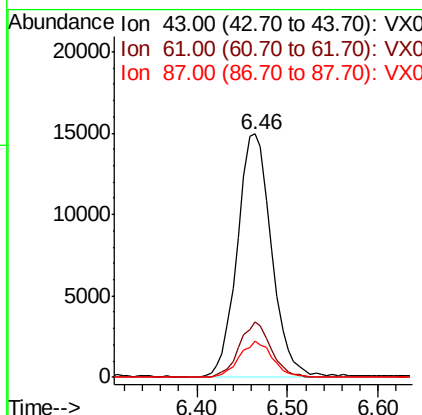
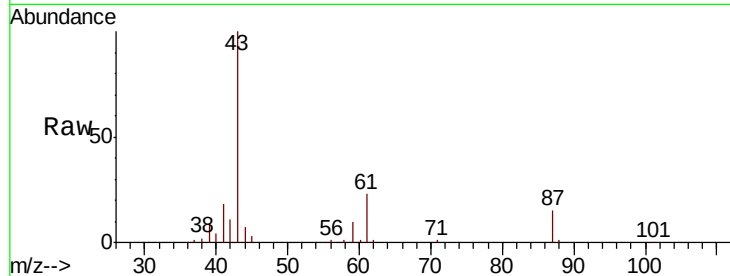
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	39296
Ion	Ratio	Lower	Upper
43	100		
61	21.1	16.9	25.3
87	14.2	11.3	16.9

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#44

Trichloroethene

Concen: 4.89 ug/l

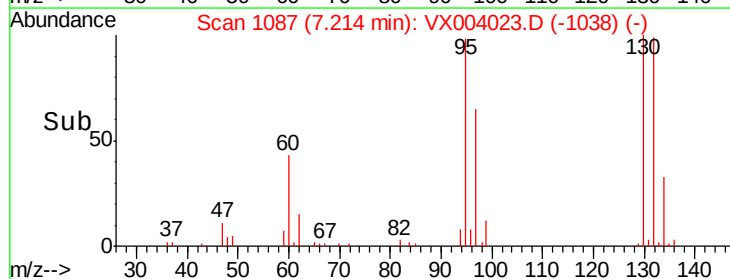
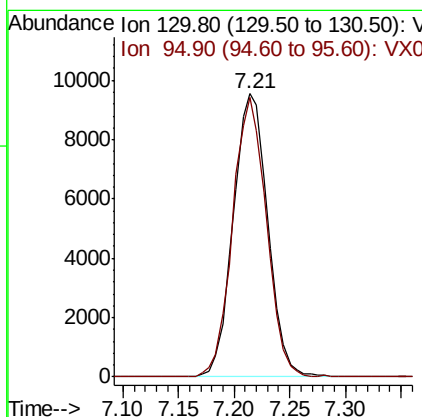
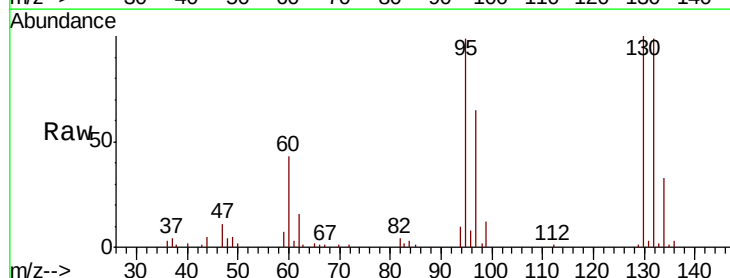
RT: 7.21 min Scan# 1087

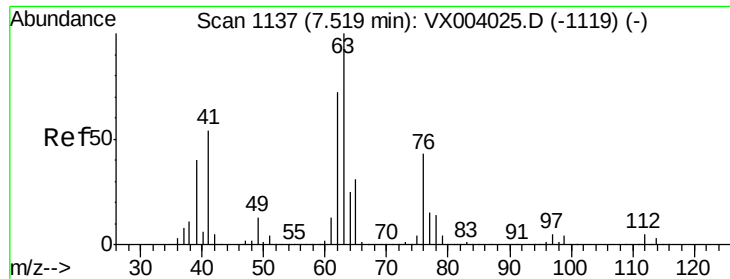
Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion:	130	Resp:	20523
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	199.4





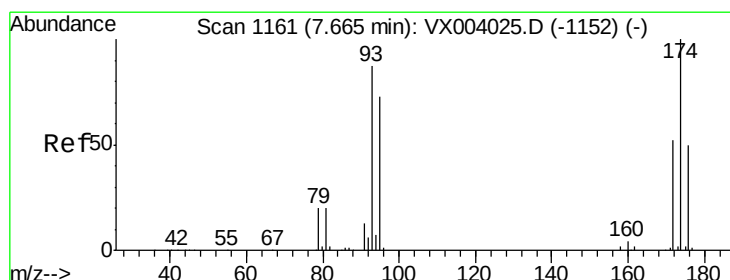
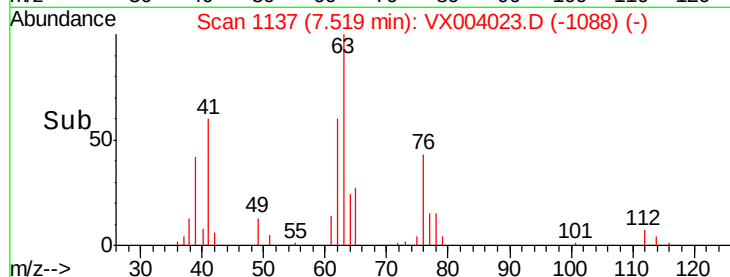
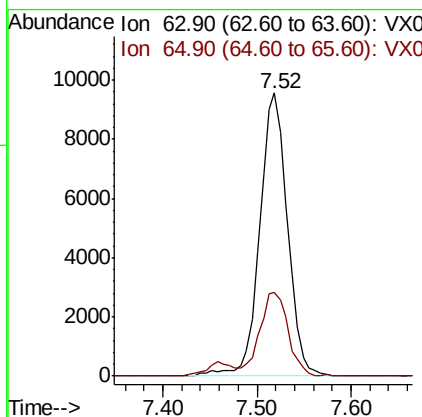
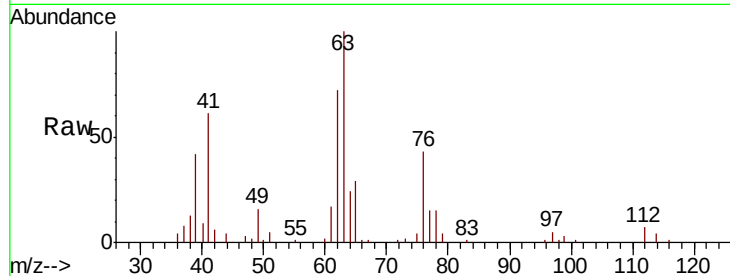
#45
 1,2-Dichloropropane
 Concen: 5.01 ug/l
 RT: 7.52 min Scan# 1137
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.6	36.8

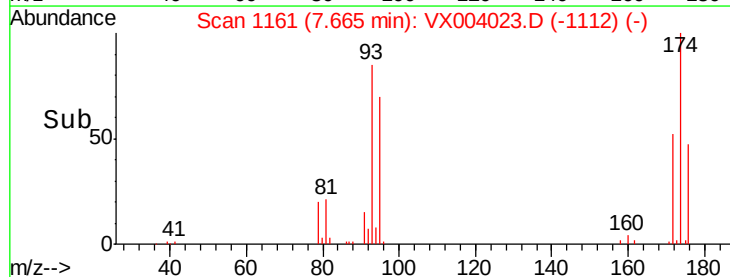
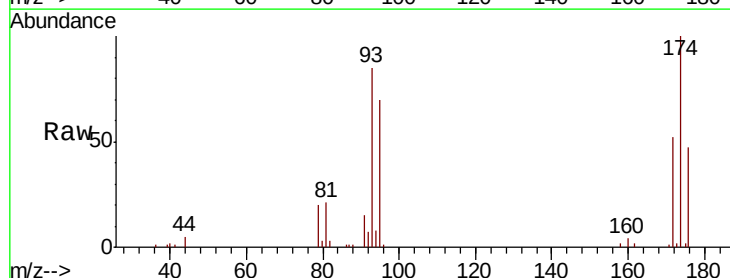
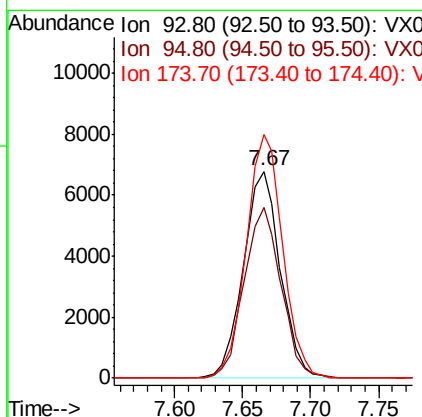
Manual Integrations
 APPROVED

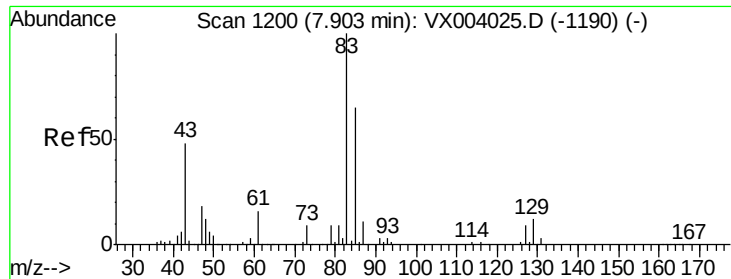
MMDadoda
 8/15/2018 4:49:51 PM



#46
 Dibromomethane
 Concen: 5.00 ug/l
 RT: 7.67 min Scan# 1161
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.4	99.6
174	116.1	94.3	141.5





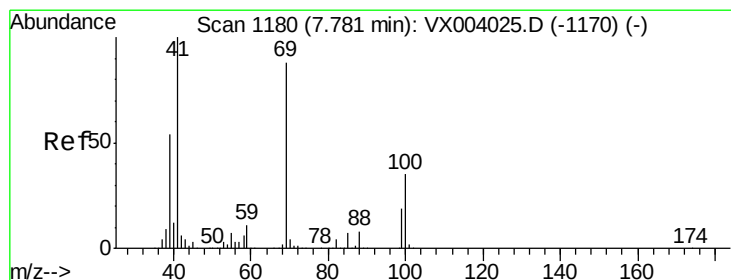
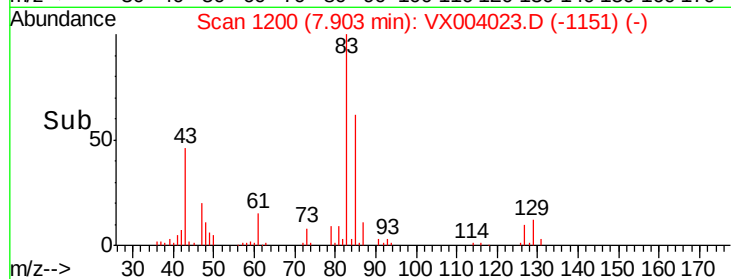
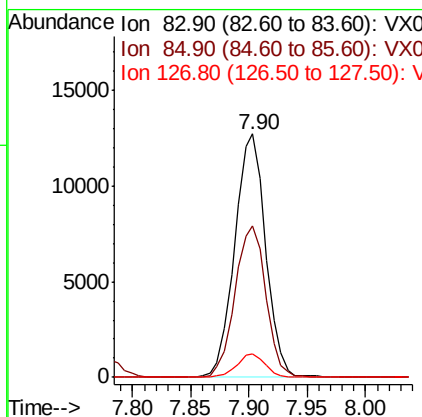
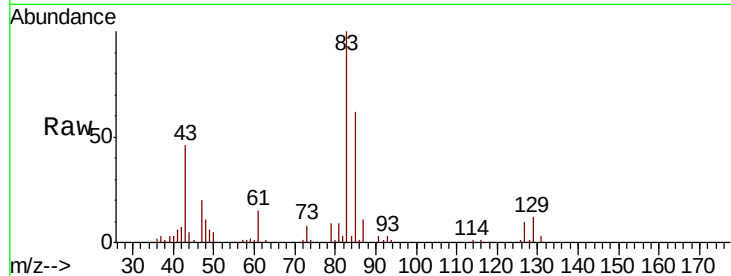
#47
Bromodichloromethane
Concen: 4.86 ug/l
RT: 7.90 min Scan# 1200
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.2	76.8
127	9.5	7.2	10.8

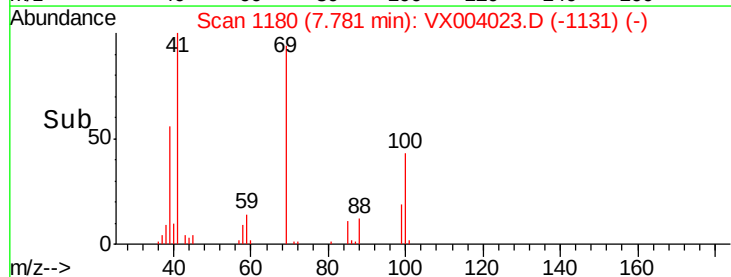
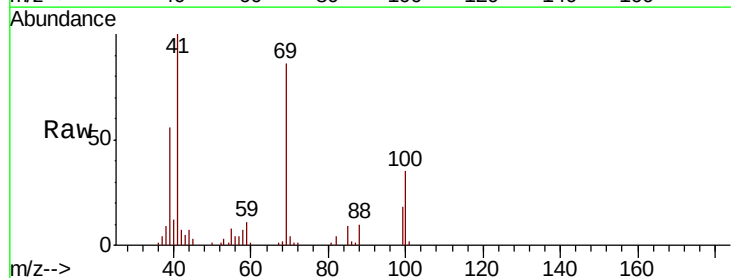
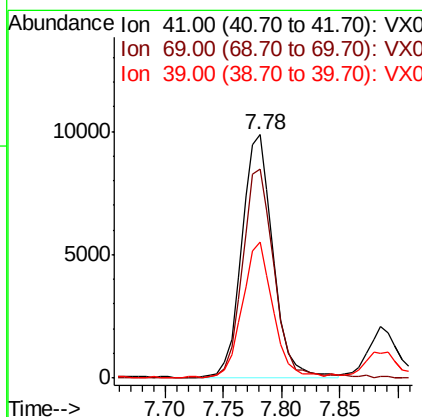
Manual Integrations
APPROVED

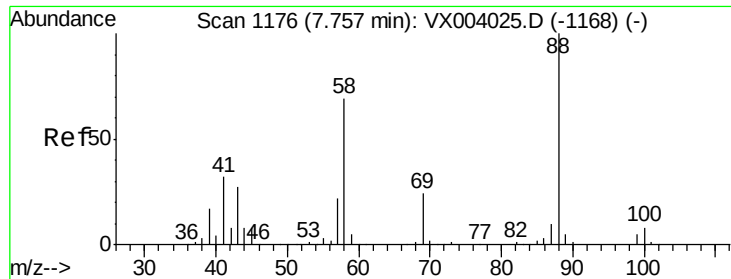
MMDadoda
8/15/2018 4:49:51 PM



#48
Methyl methacrylate
Concen: 4.32 ug/l
RT: 7.78 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
41	100		
69	86.7	68.8	103.2
39	54.7	42.3	63.5





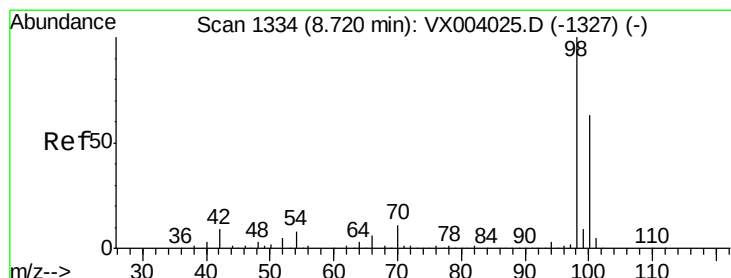
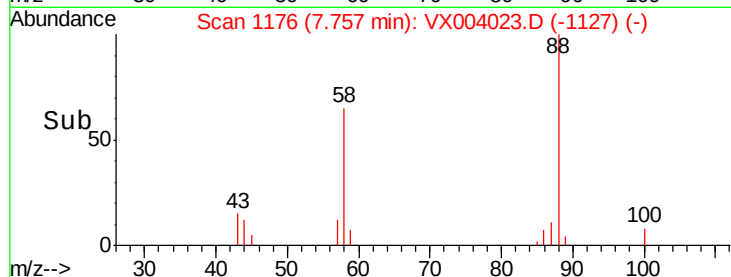
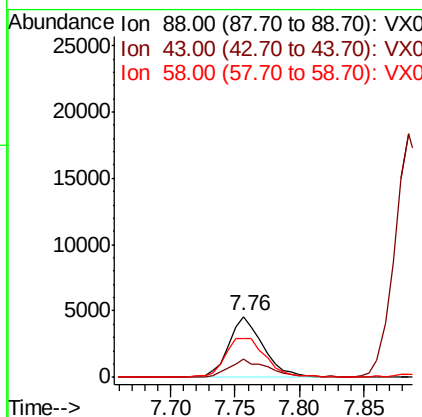
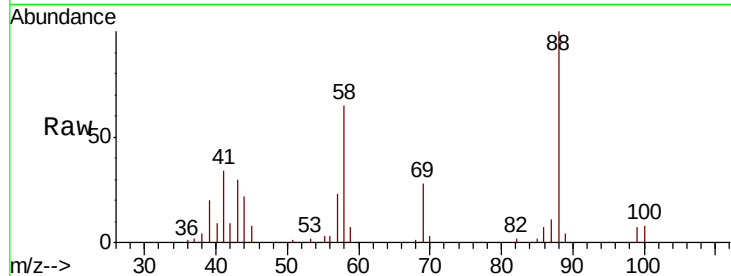
#49
1,4-Dioxane
Concen: 83.19 ug/l
RT: 7.76 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.8	23.8	35.8
58	77.3	55.4	83.0

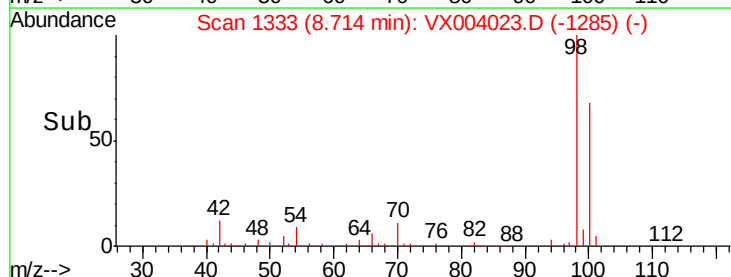
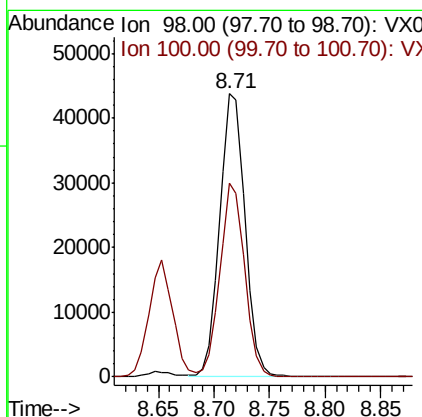
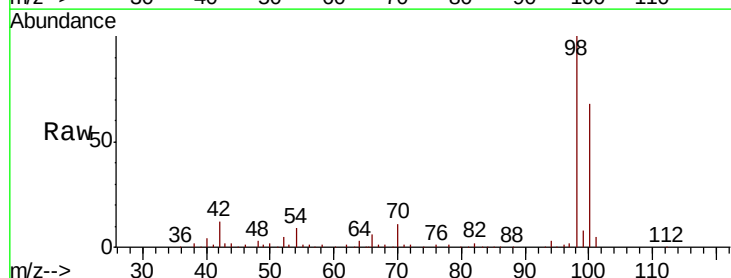
Manual Integrations
APPROVED

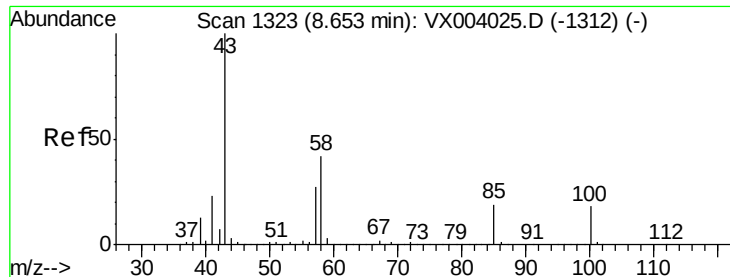
MMDadoda
8/15/2018 4:49:51 PM



#50
Toluene-d8
Concen: 5.14 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 22.90 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 160689

Ion Ratio Lower Upper

43 100

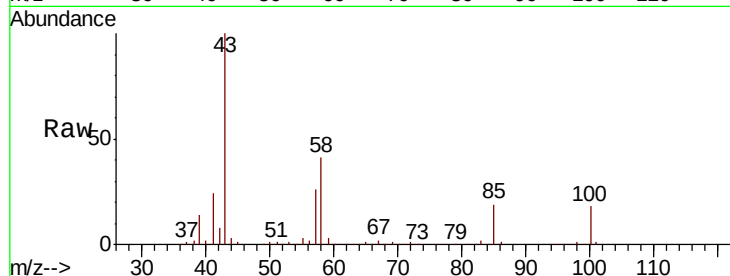
58 40.3 33.0 49.6

Manual Integrations

APPROVED

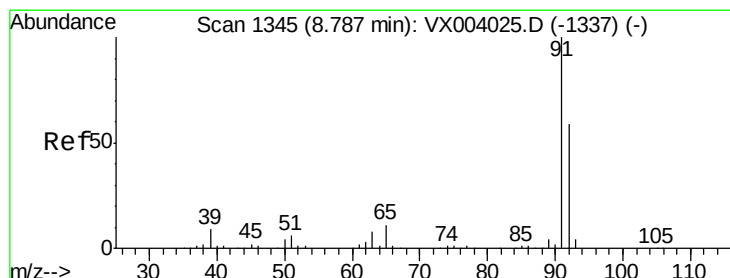
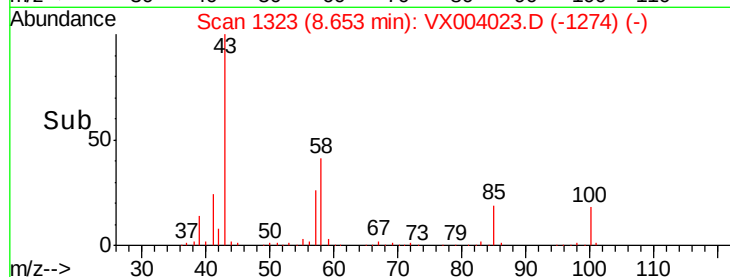
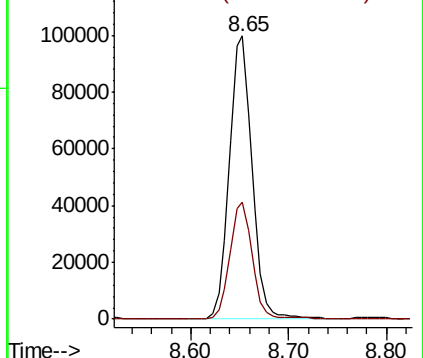
MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 4.99 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004023.D

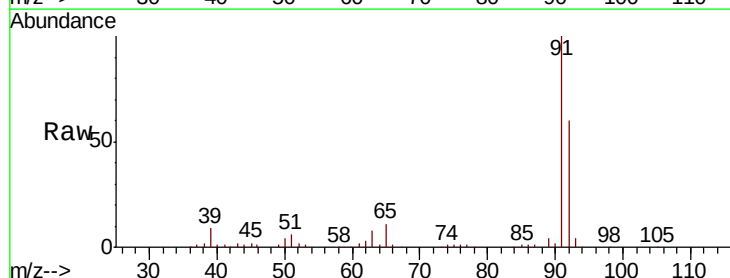
Acq: 14 Aug 2018 11:08

Tgt Ion: 92 Resp: 48409

Ion Ratio Lower Upper

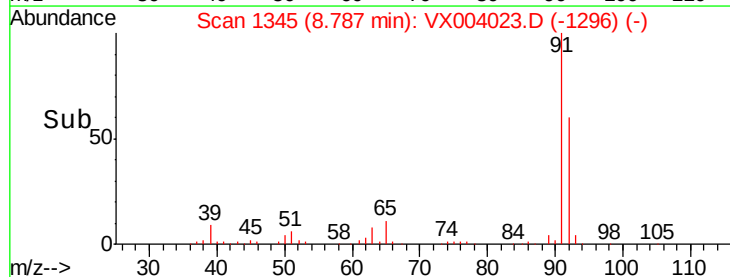
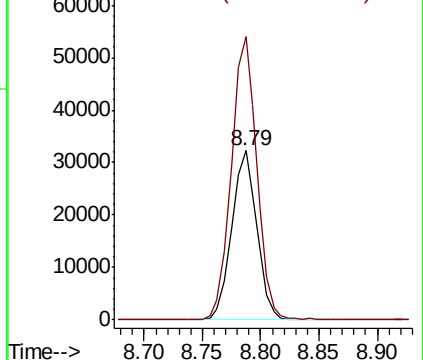
92 100

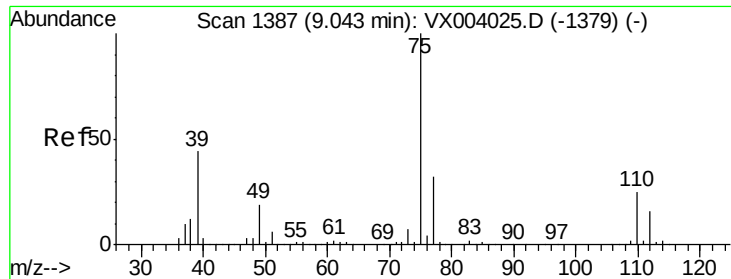
91 169.9 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





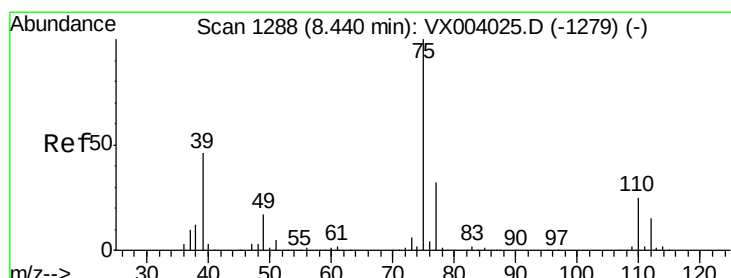
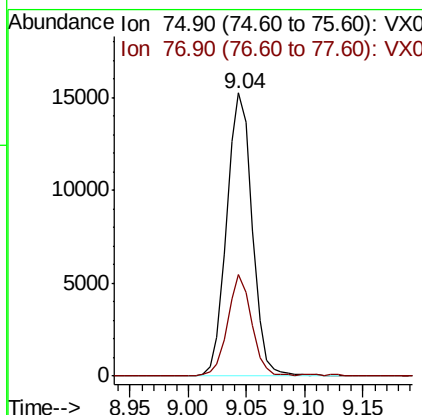
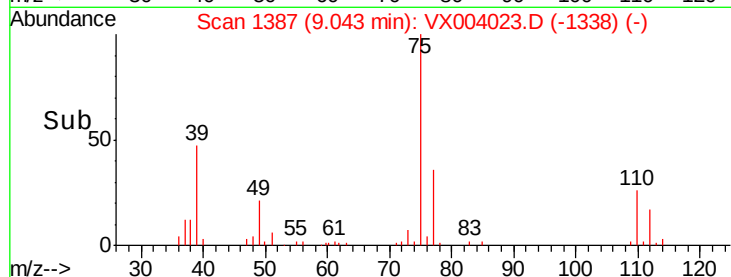
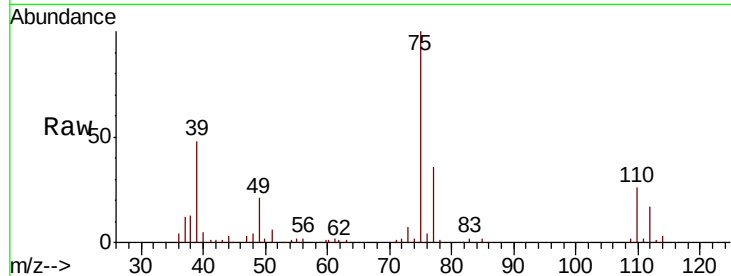
#53
t-1,3-Dichloropropene
Concen: 4.24 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	35.8	25.1	37.7

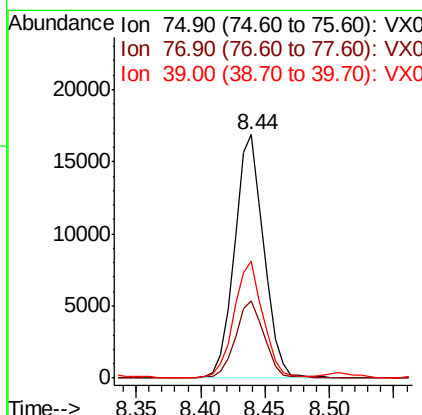
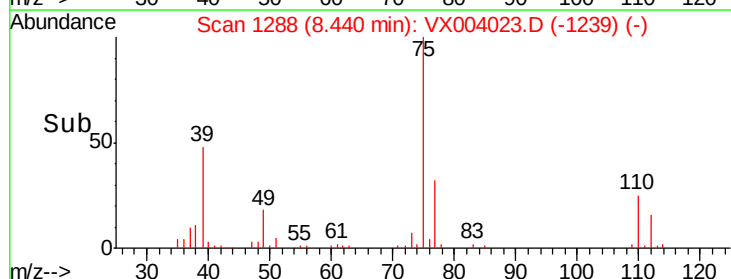
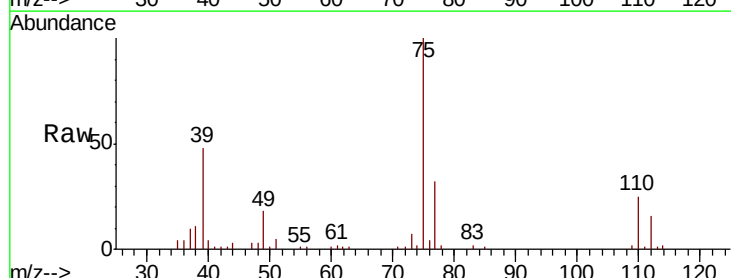
Manual Integrations
APPROVED

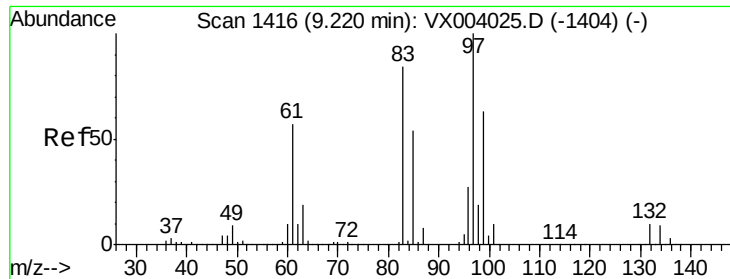
MMDadoda
8/15/2018 4:49:51 PM



#54
cis-1,3-Dichloropropene
Concen: 4.48 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.3	37.9
39	48.0	36.2	54.2





#55

1,1,2-Trichloroethane

Concen: 5.14 ug/l

RT: 9.22 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

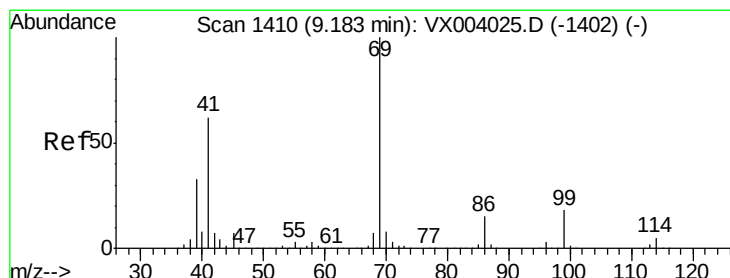
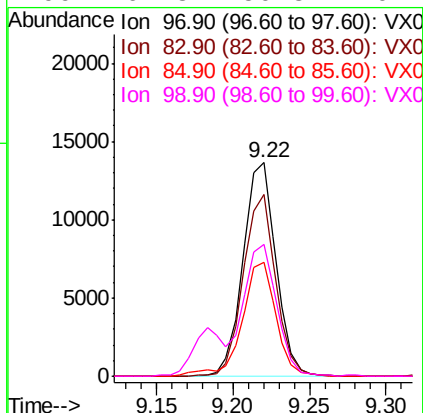
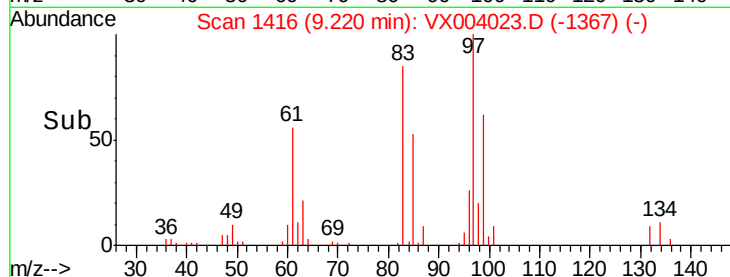
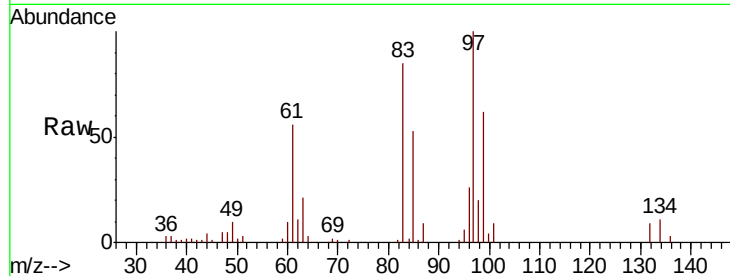
ClientSampleId :

VSTDIC005

Tot Ion:	97	Resp:	20380
Ion	Ratio	Lower	Upper
97	100		
83	85.0	67.8	101.6
85	53.2	44.2	66.2
99	61.8	50.8	76.2

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#56

Ethyl methacrylate

Concen: 4.05 ug/l

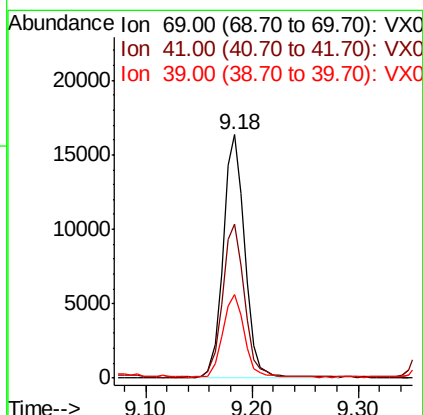
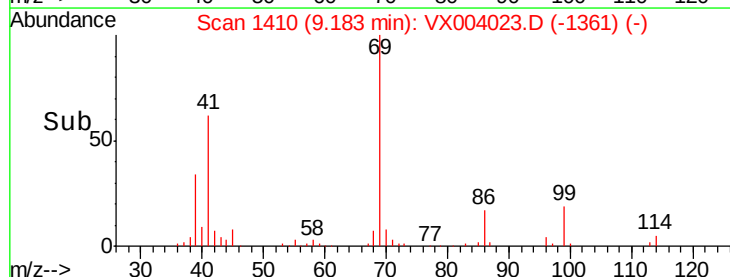
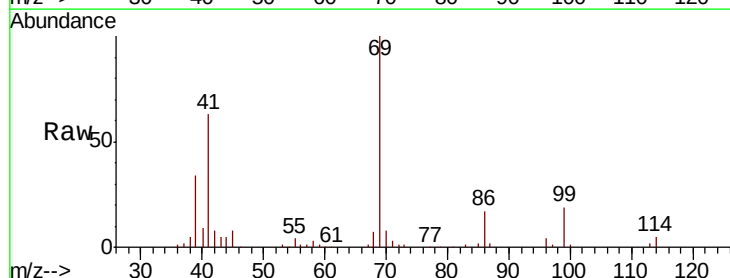
RT: 9.18 min Scan# 1410

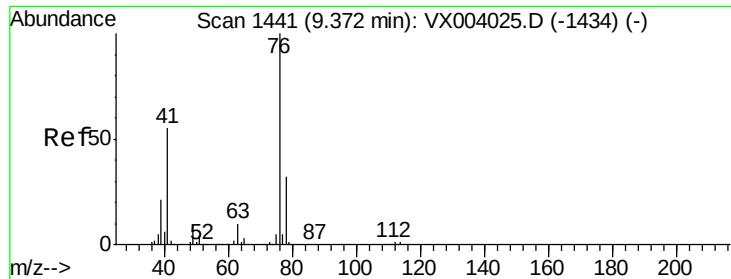
Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion:	69	Resp:	23301
Ion	Ratio	Lower	Upper
69	100		
41	63.6	50.6	76.0
39	36.0	25.8	38.6





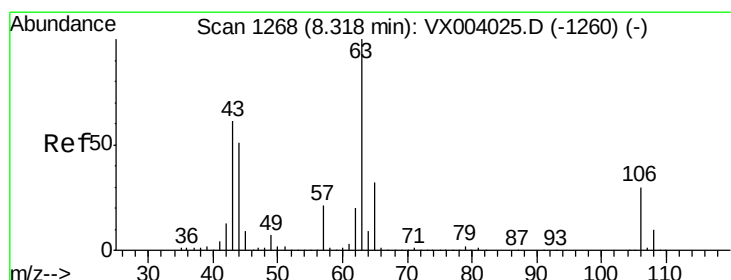
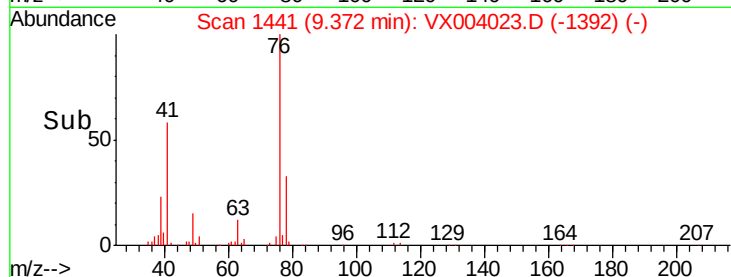
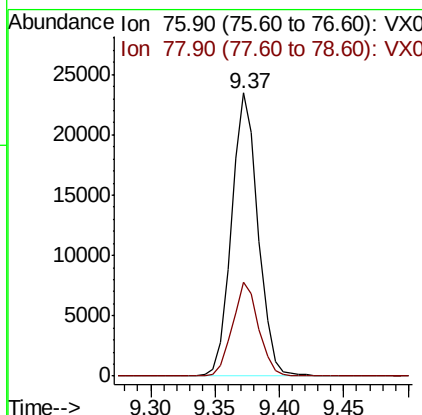
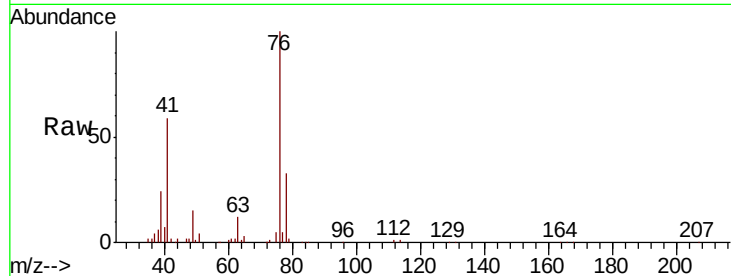
#57
 1,3-Dichloropropane
 Concen: 5.06 ug/l
 RT: 9.37 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.0	25.9	38.9

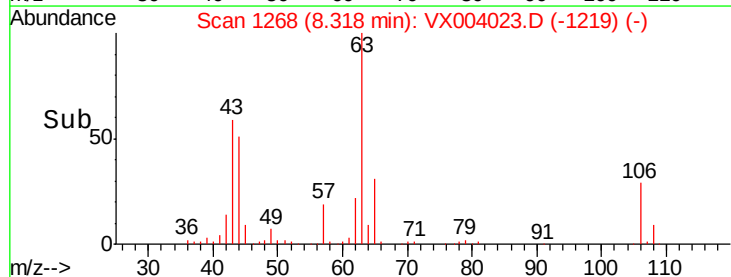
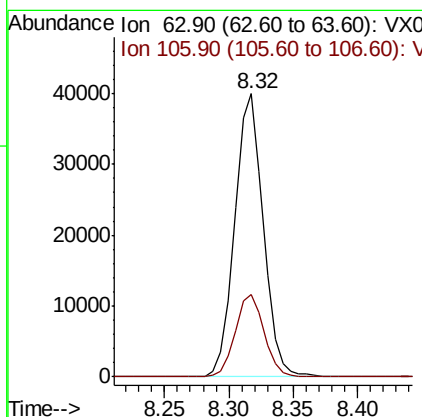
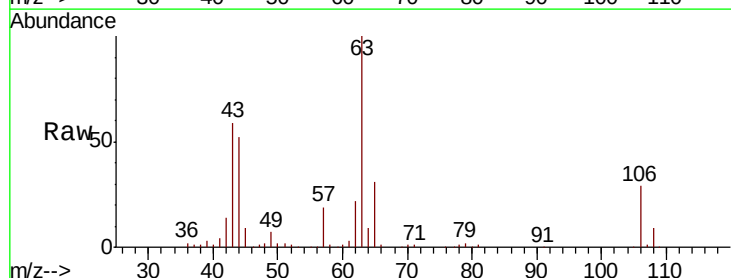
Manual Integrations
 APPROVED

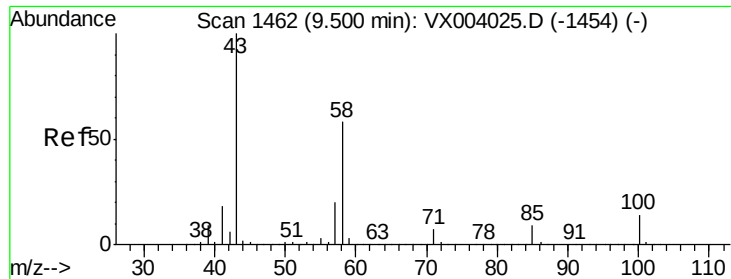
MMDadoda
 8/15/2018 4:49:51 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 21.77 ug/l
 RT: 8.32 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.7	23.8	35.8





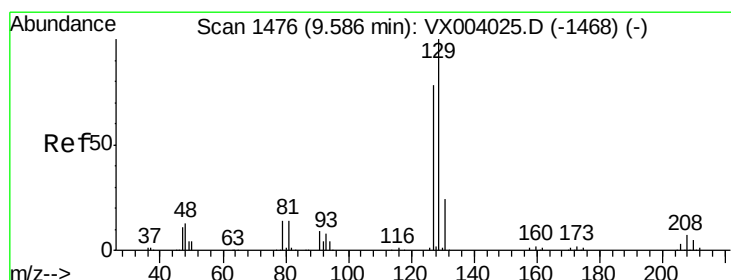
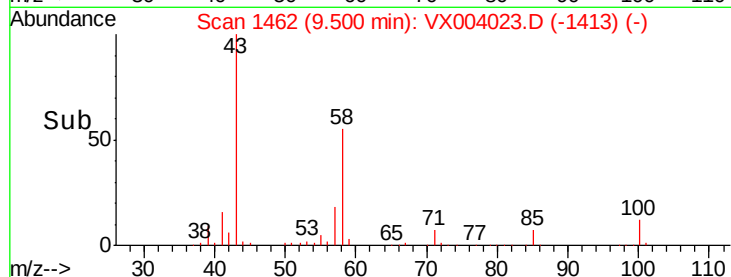
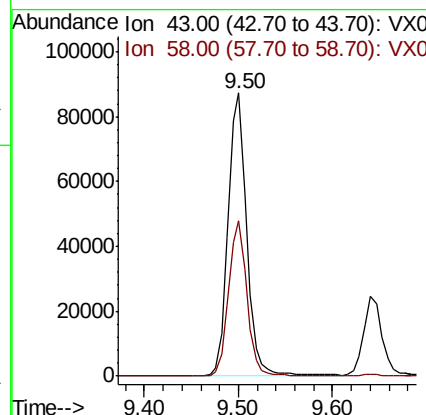
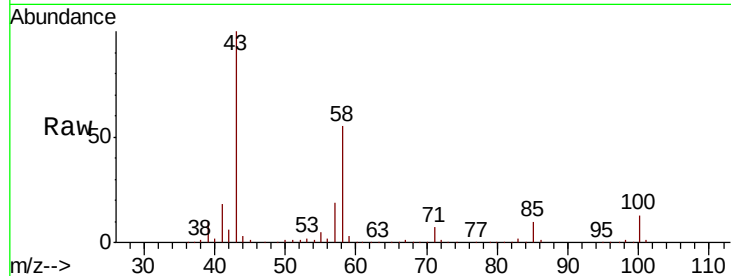
#59
2-Hexanone
Concen: 22.88 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.0	29.0	87.0

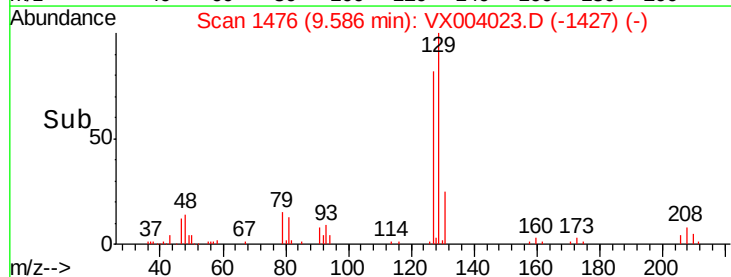
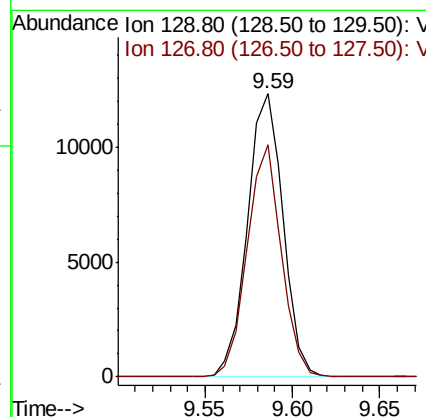
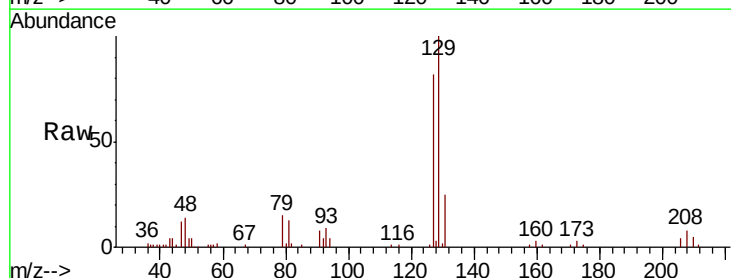
Manual Integrations
APPROVED

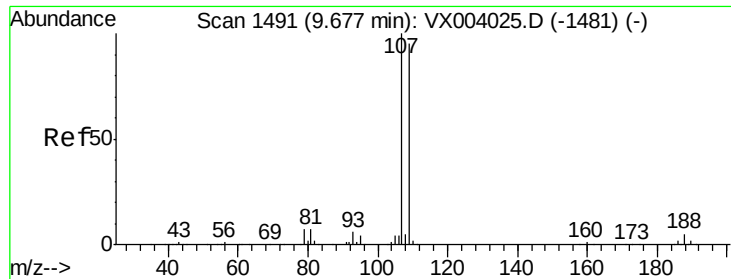
MMDadoda
8/15/2018 4:49:51 PM



#60
Dibromochloromethane
Concen: 4.74 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.8	116.3





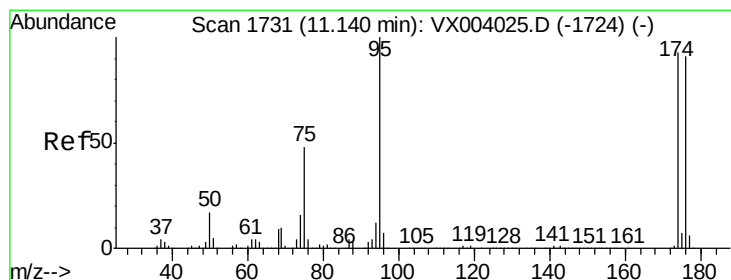
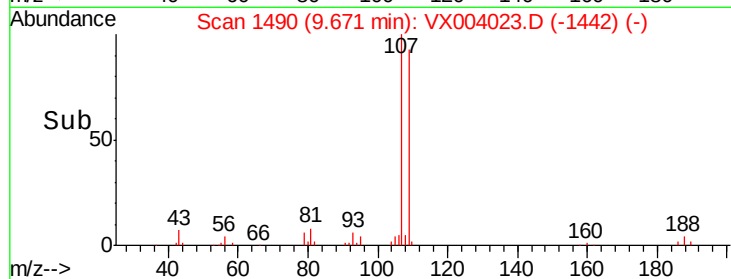
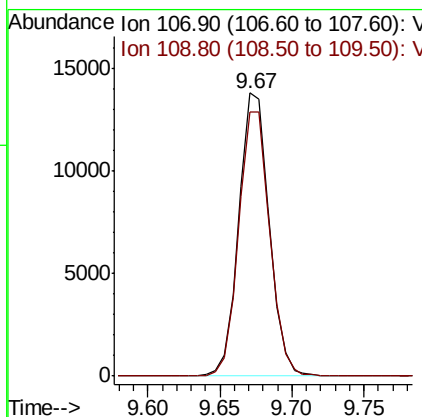
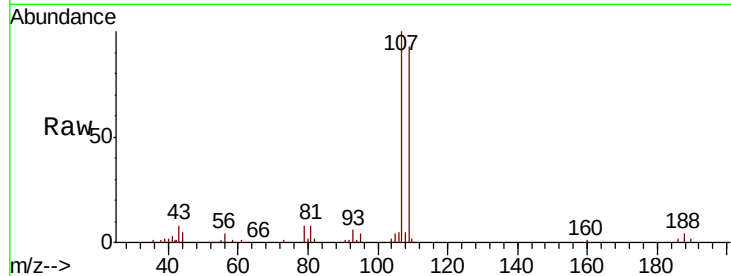
#61
 1,2-Dibromoethane
 Concen: 5.09 ug/l
 RT: 9.67 min Scan# 1490
 Delta R.T. -0.01 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.8	113.8

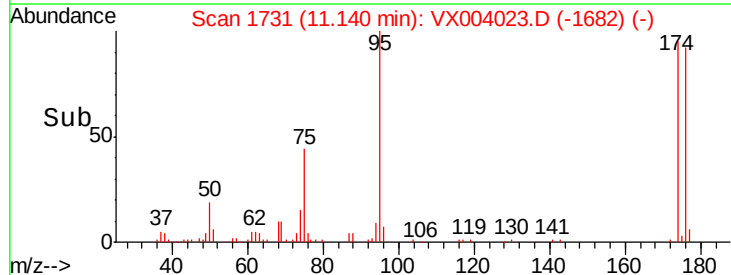
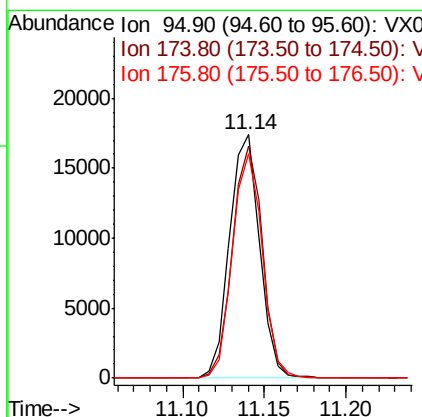
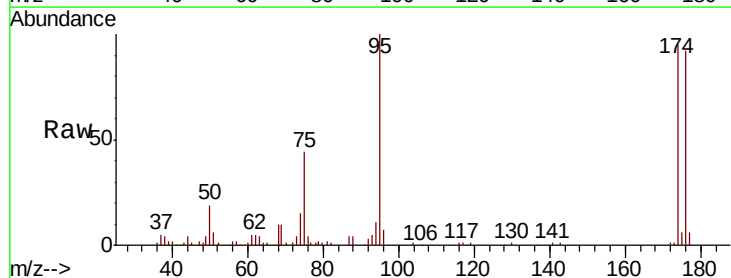
Manual Integrations
 APPROVED

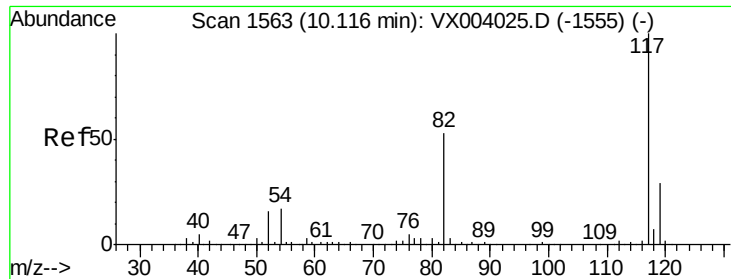
MMDadoda
 8/15/2018 4:49:51 PM



#62
 4-Bromofluorobenzene
 Concen: 5.13 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.2	0.0	182.8
176	91.5	0.0	179.0





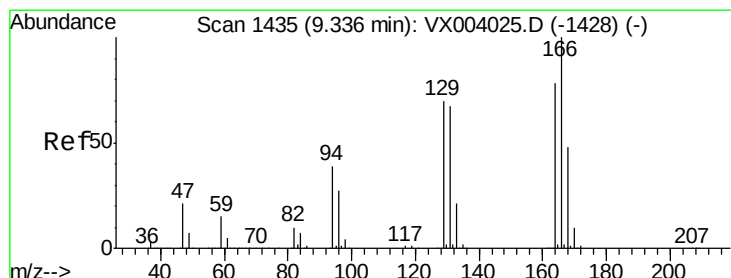
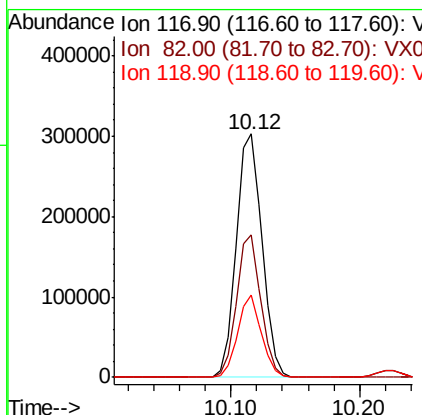
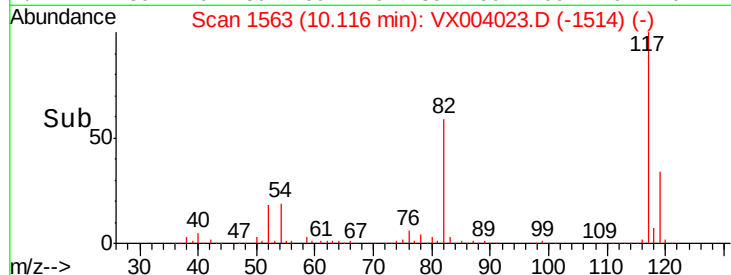
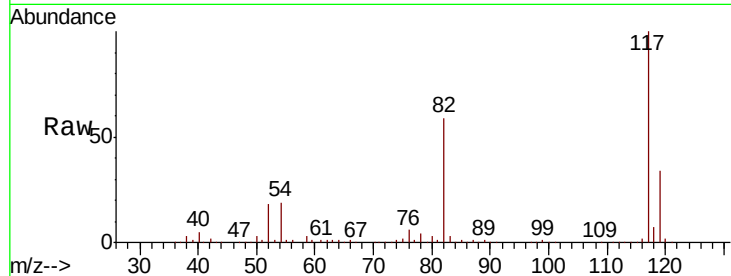
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.7	45.4	68.0
119	34.0	26.6	40.0

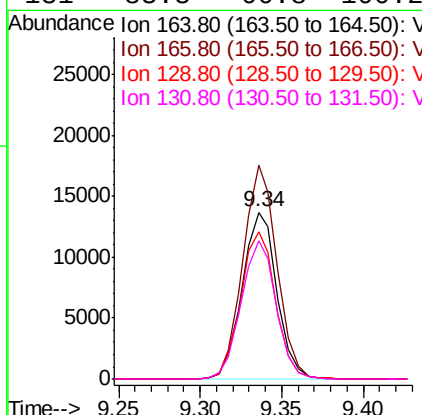
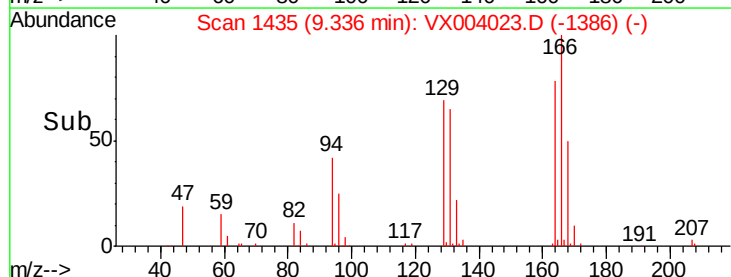
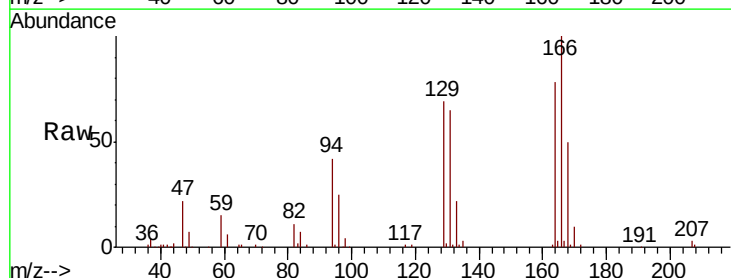
Manual Integrations
APPROVED

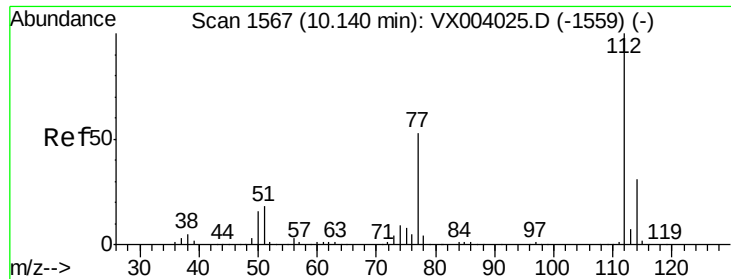
MMDadoda
8/15/2018 4:49:51 PM



#64
Tetrachloroethene
Concen: 4.89 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.2	98.0	147.0
129	88.5	64.3	96.5
131	83.3	66.8	100.2





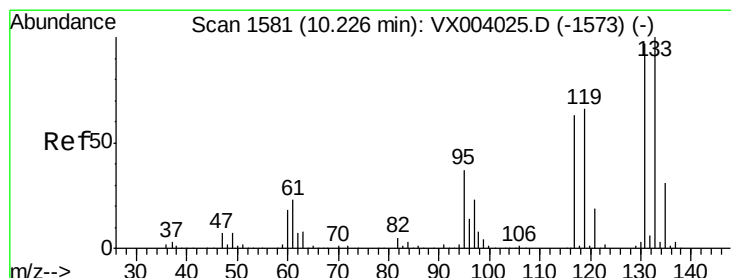
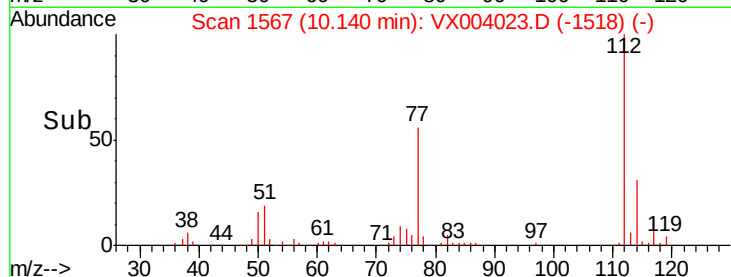
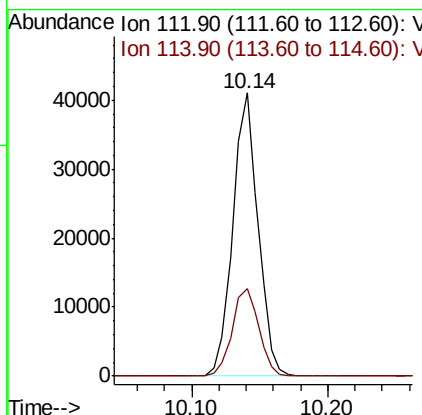
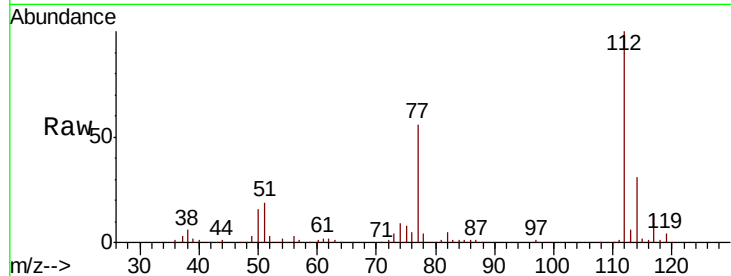
#65
Chlorobenzene
Concen: 4.84 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 52829
Ion Ratio Lower Upper
112 100
114 30.8 23.6 35.4

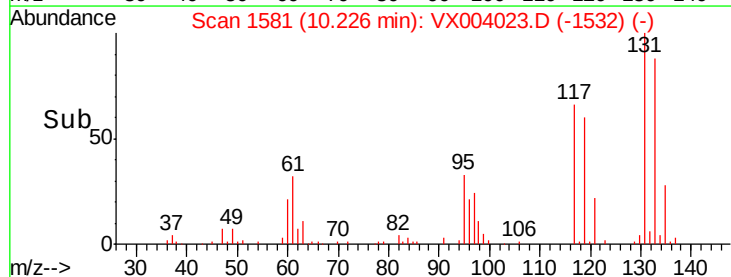
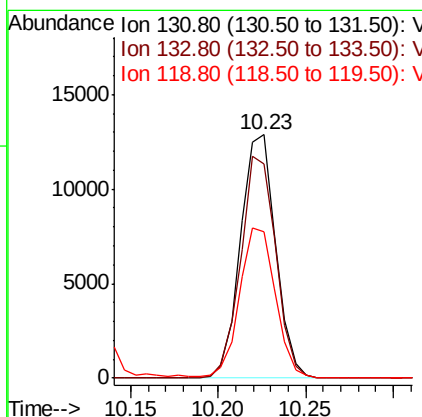
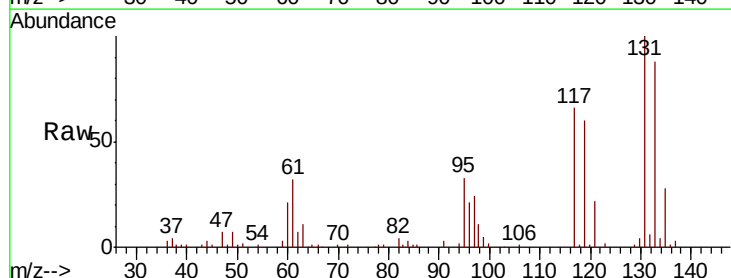
Manual Integrations
APPROVED

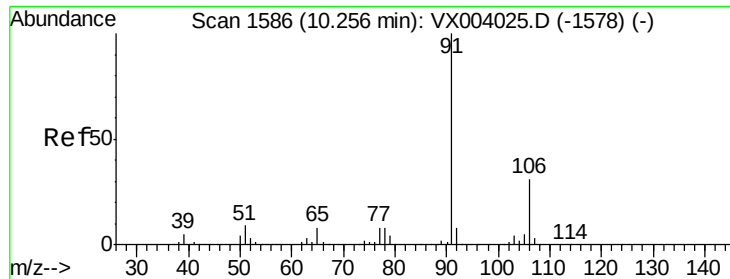
MMDadoda
8/15/2018 4:49:51 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.80 ug/l
RT: 10.23 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion:131 Resp: 17989
Ion Ratio Lower Upper
131 100
133 91.0 47.3 141.8
119 63.0 31.6 94.8





#67

Ethyl Benzene

Concen: 4.49 ug/l

RT: 10.25 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 80160

Ion Ratio Lower Upper

91 100

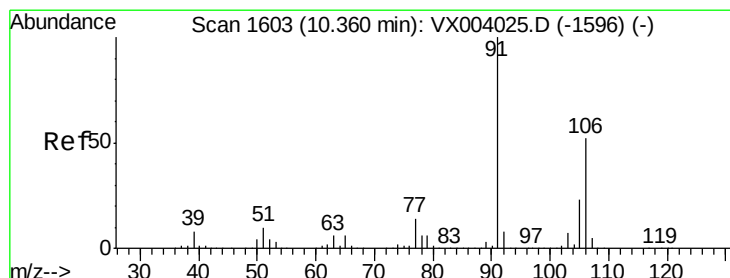
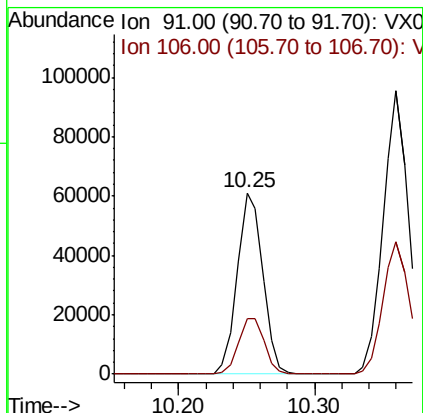
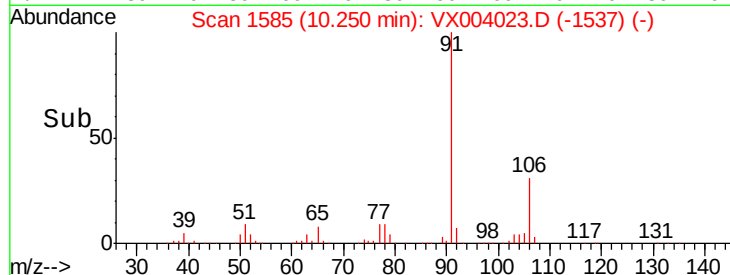
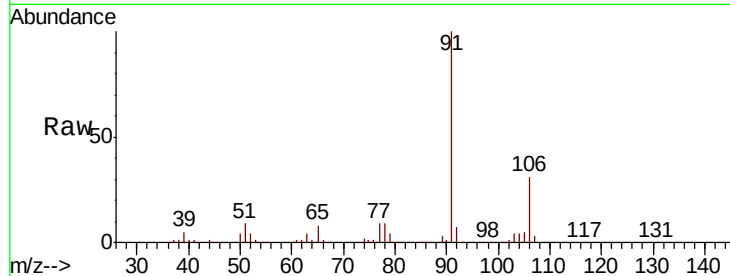
106 30.8 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

8/15/2018 4:49:51 PM



#68

m/p-Xylenes

Concen: 8.68 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VX004023.D

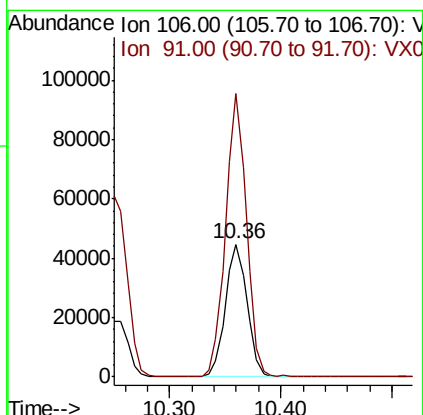
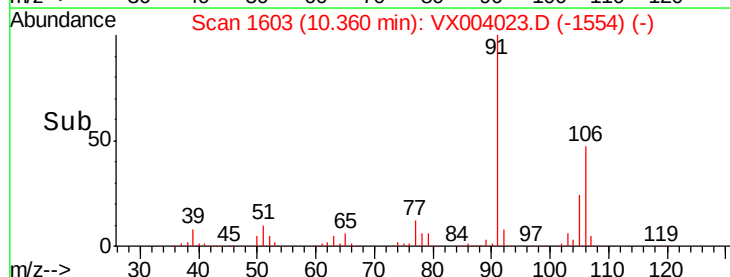
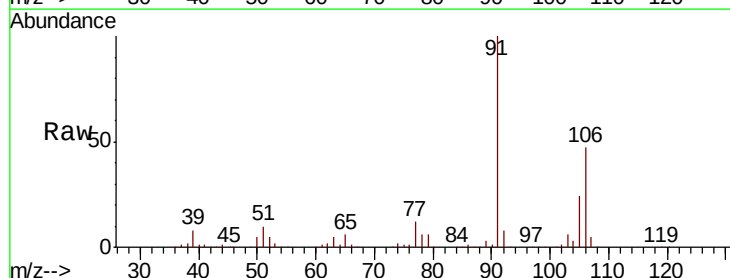
Acq: 14 Aug 2018 11:08

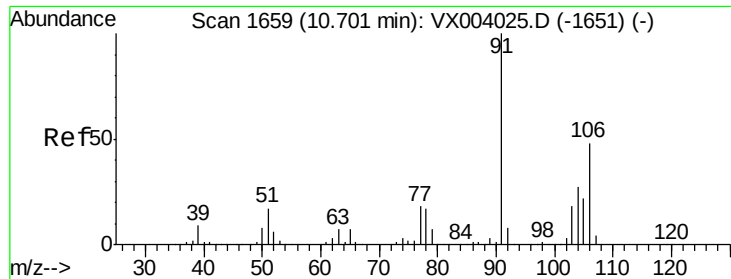
Tgt Ion: 106 Resp: 60603

Ion Ratio Lower Upper

106 100

91 204.2 162.3 243.5





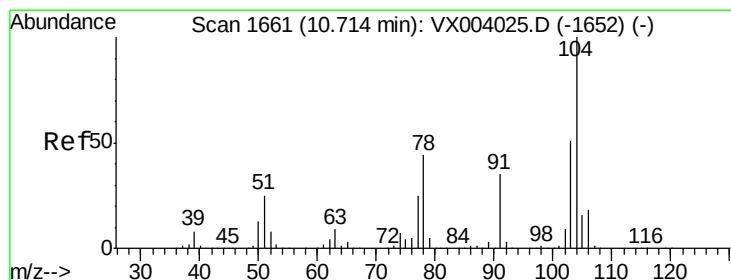
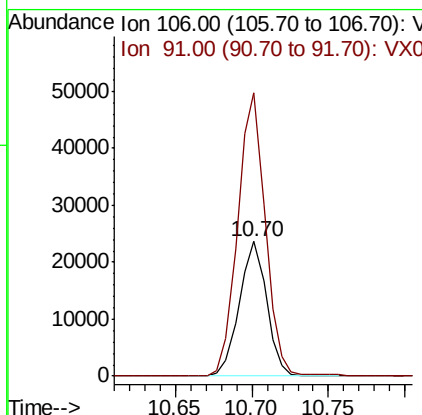
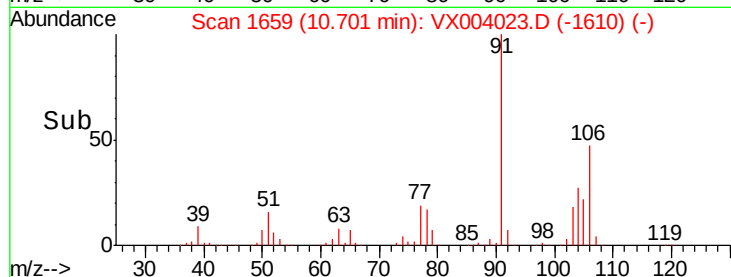
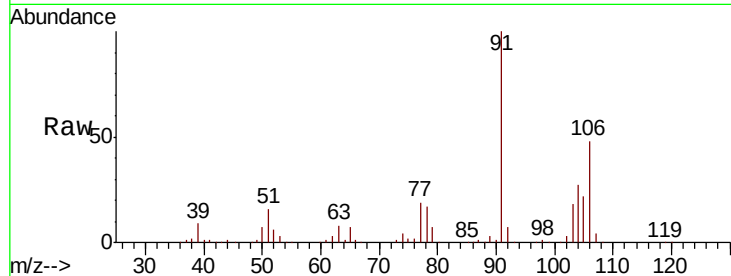
#69
o-Xylene
Concen: 4.45 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.7	101.9	305.7

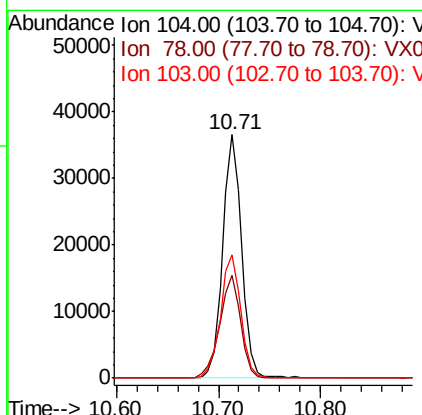
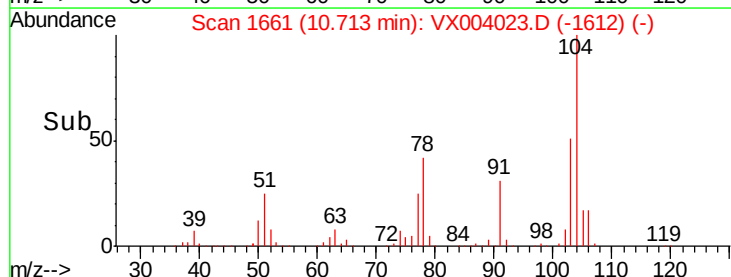
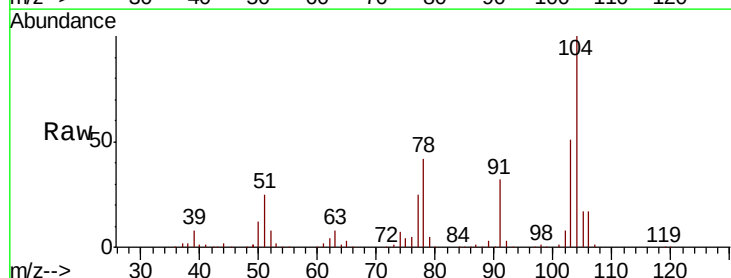
Manual Integrations
APPROVED

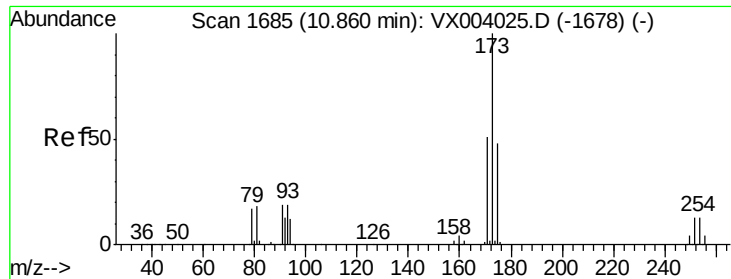
MMDadoda
8/15/2018 4:49:51 PM



#70
Styrene
Concen: 4.39 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.9	39.8	59.6
103	54.4	44.3	66.5





#71

Bromoform

Concen: 4.61 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

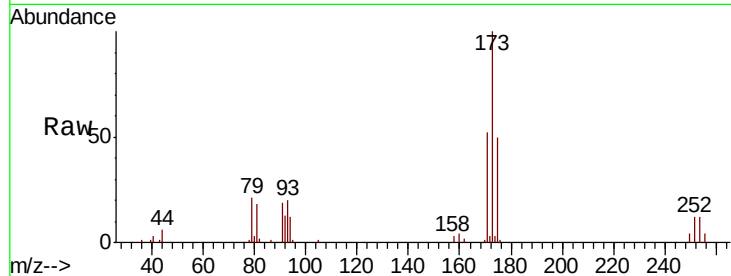
ClientSampleId :

VSTDIC005

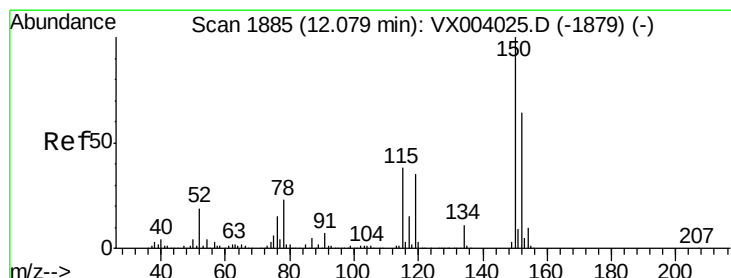
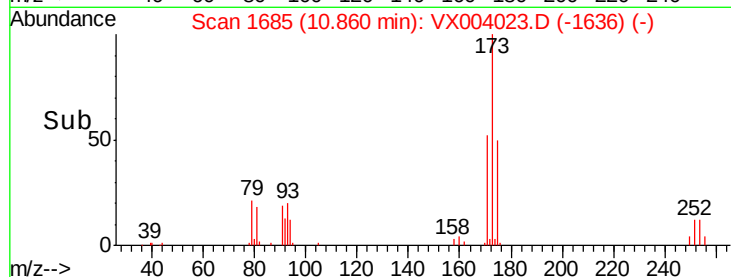
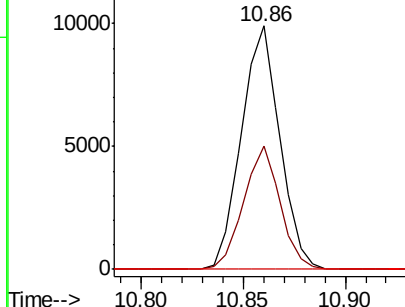
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.9	74.7
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 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: 12.08 min Scan# 1885

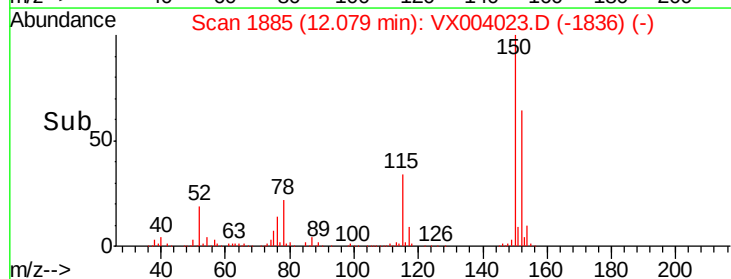
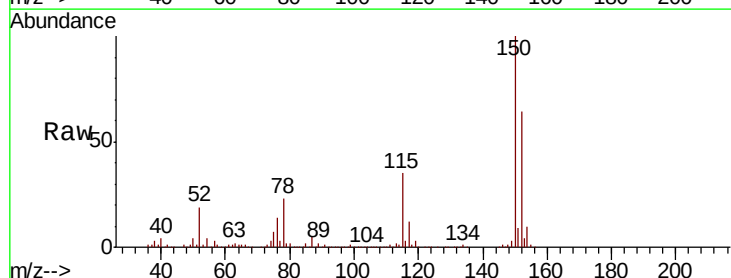
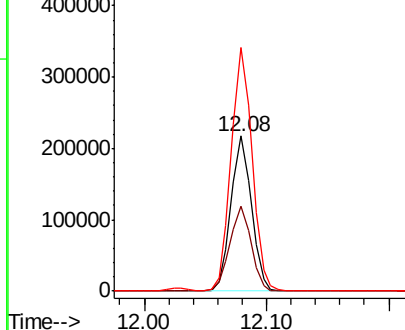
Delta R.T. -0.00 min

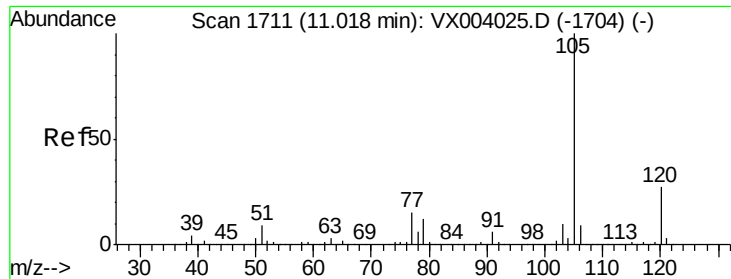
Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.2	39.1	117.3
150	160.6	0.0	349.2

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: 4.35 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 80552

Ion Ratio Lower Upper

105 100

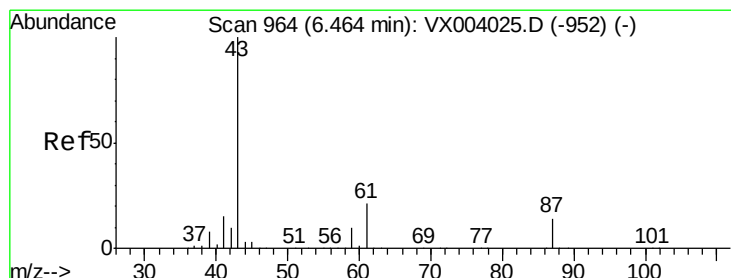
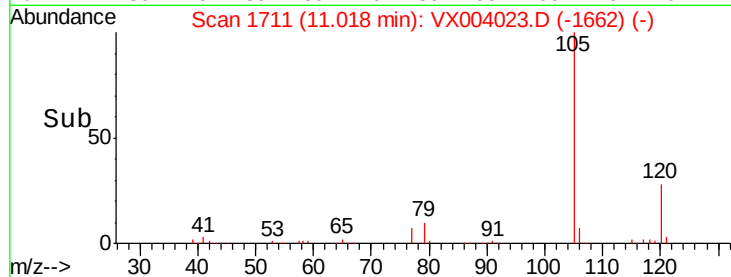
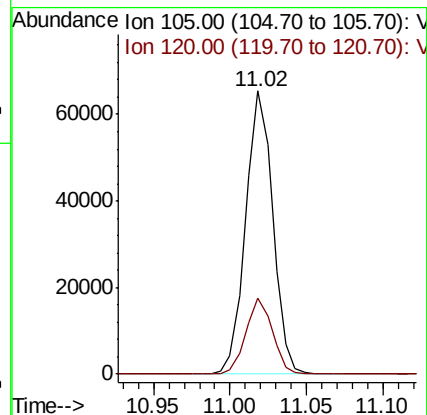
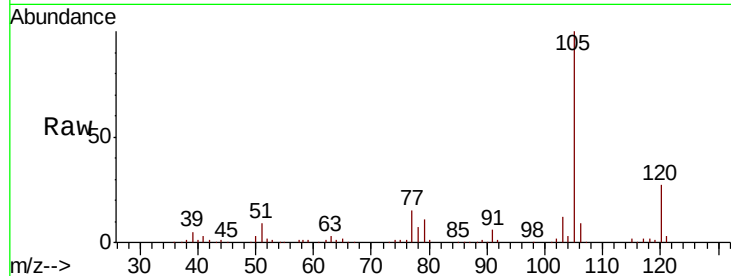
120 26.3 12.6 37.8

Manual Integrations

APPROVED

MMDadoda

8/15/2018 4:49:51 PM



#74

N-ethyl acetate

Concen: 4.08 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion: 43 Resp: 39296

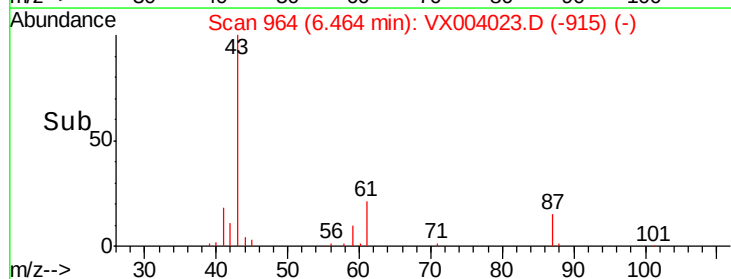
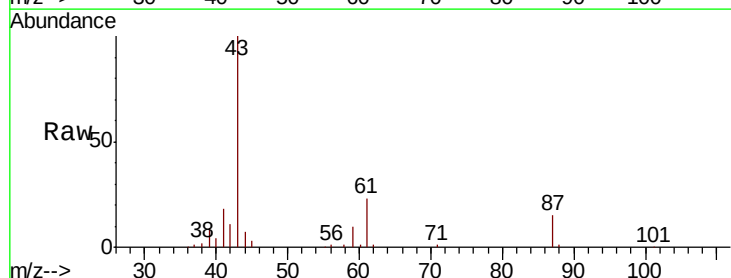
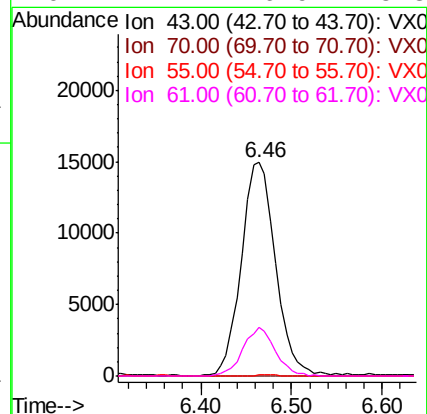
Ion Ratio Lower Upper

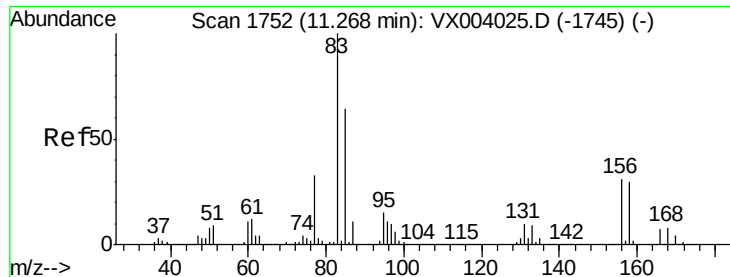
43 100

70 0.0 0.0 0.0

55 0.2 0.1 0.1#

61 21.1 16.9 25.3





#75

1,1,2,2-Tetrachloroethane

Concen: 4.66 ug/l

RT: 11.27 min Scan# 1752

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

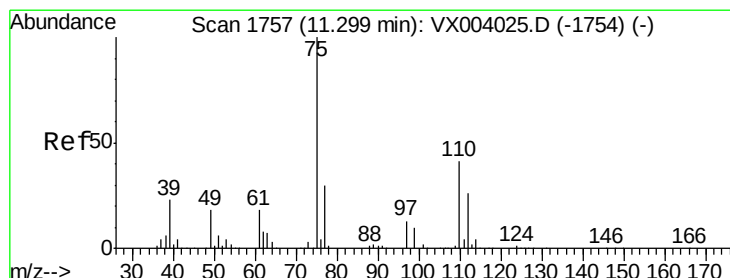
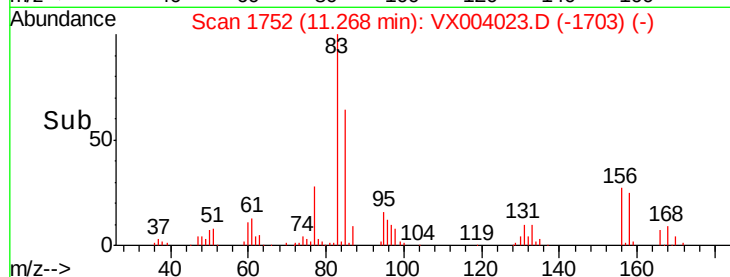
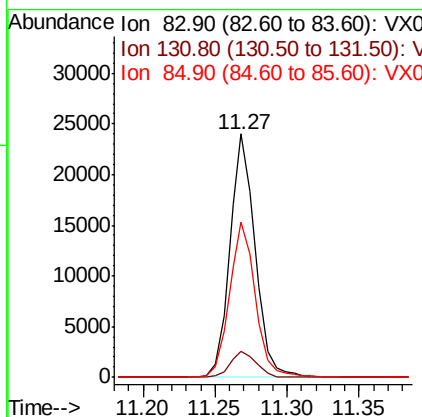
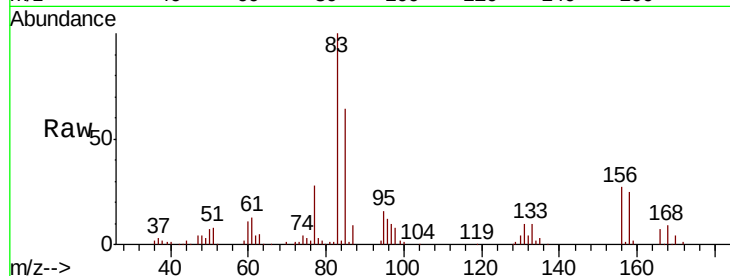
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	29612
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.2	15.6
85	65.1	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#76

1,2,3-Trichloropropane

Concen: 4.50 ug/l m

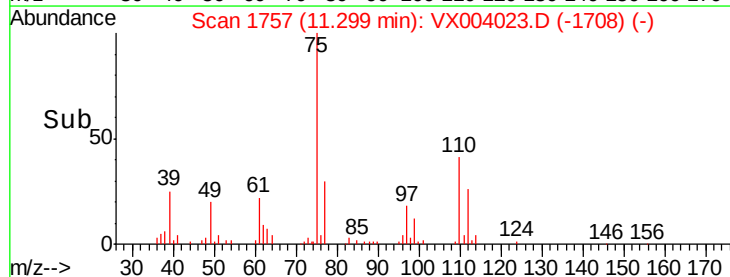
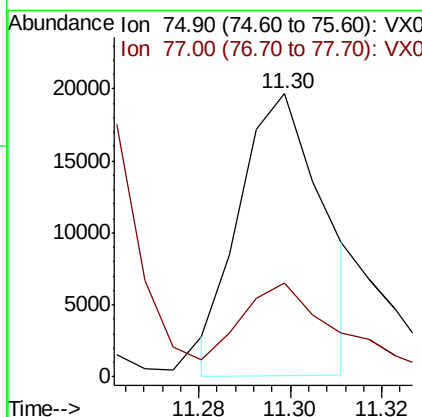
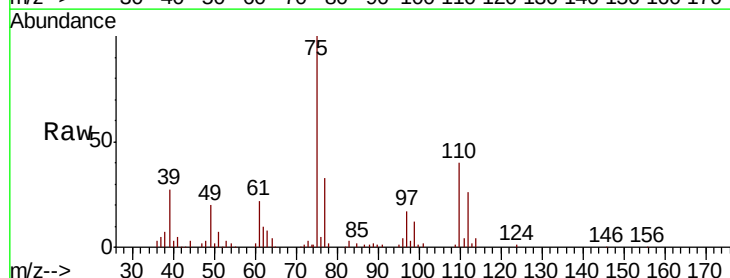
RT: 11.30 min Scan# 1757

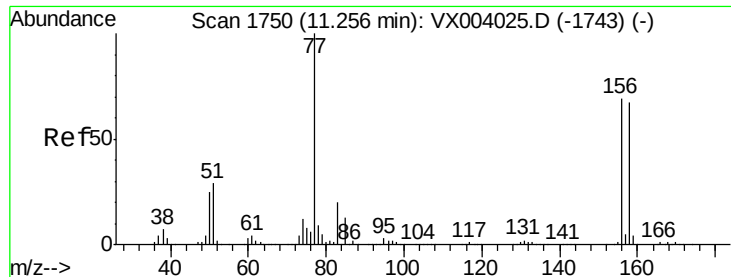
Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Tgt Ion:	75	Resp:	24872
Ion Ratio	Lower	Upper	
75	100		
77	40.5	20.8	62.5





#77

Bromobenzene

Concen: 4.60 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 22713

Ion Ratio Lower Upper

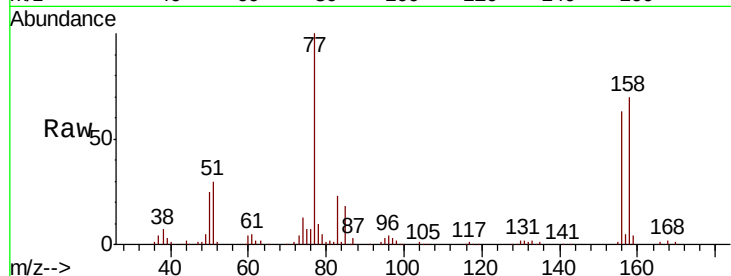
156 100

77 149.4 74.1 222.2

158 97.0 48.6 145.9

Manual Integrations
APPROVED

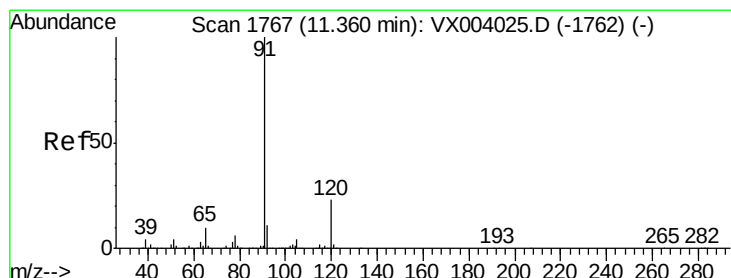
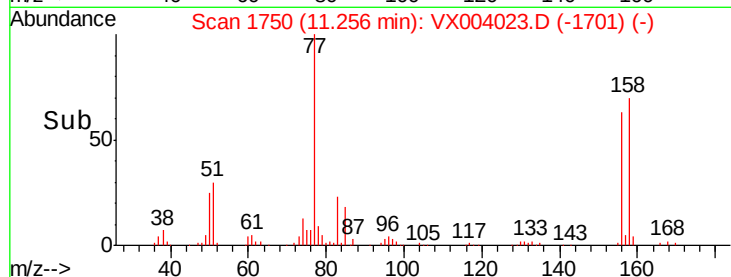
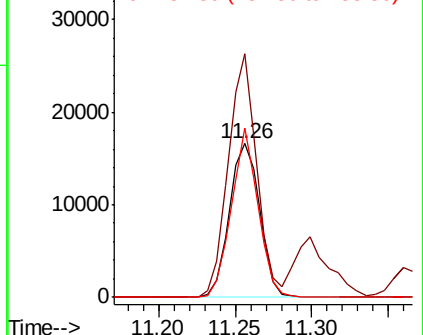
MMDadoda
8/15/2018 4:49:51 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.29 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004023.D

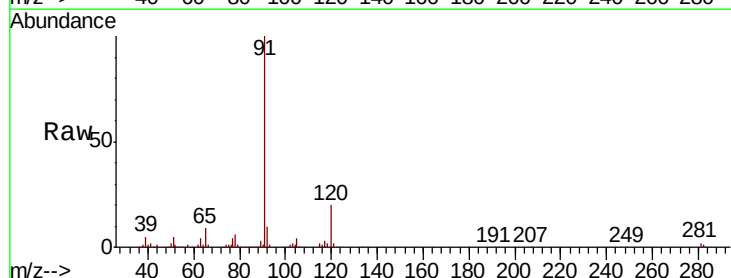
Acq: 14 Aug 2018 11:08

Tgt Ion: 91 Resp: 89287

Ion Ratio Lower Upper

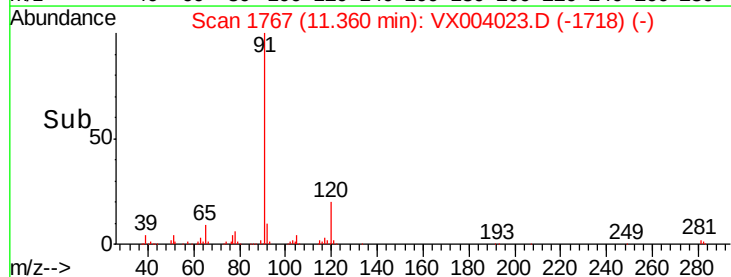
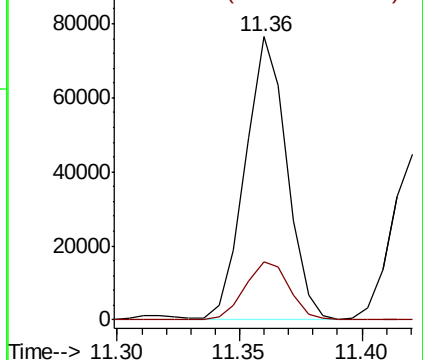
91 100

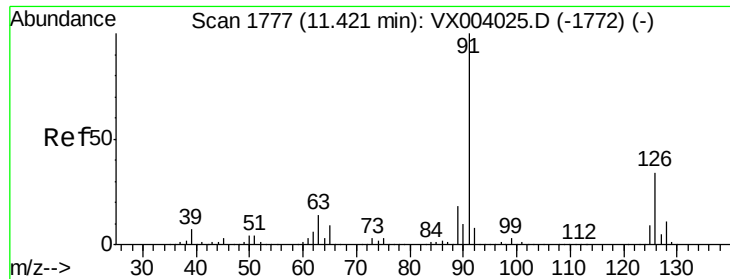
120 22.1 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





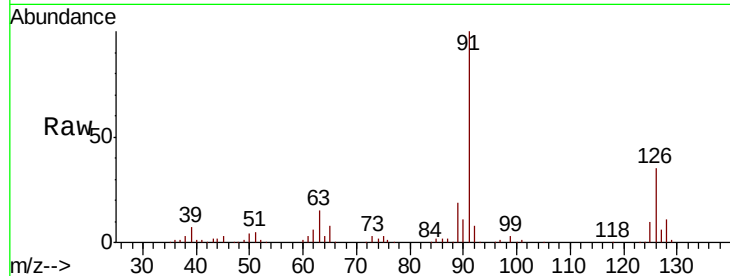
#79
 2-Chlorotoluene
 Concen: 4.38 ug/l
 RT: 11.42 min Scan# 1777
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

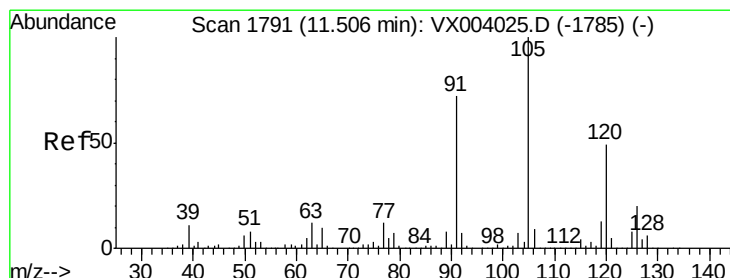
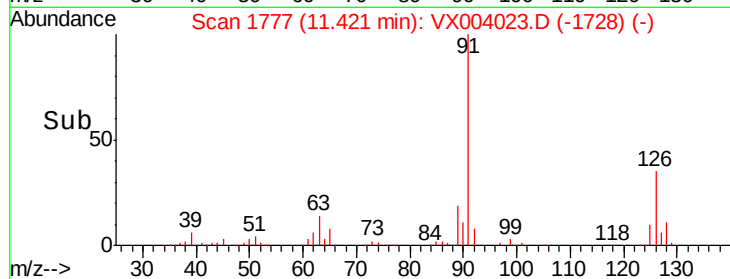
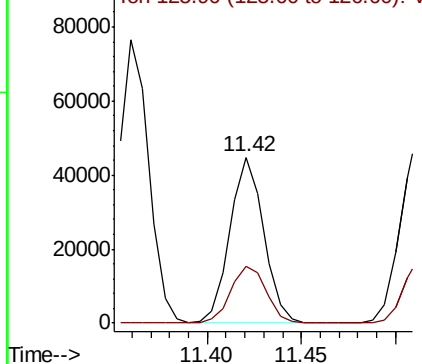
Tot Ion: 91 Resp: 55496
 Ion Ratio Lower Upper
 91 100
 126 36.3 17.4 52.3

Manual Integrations
 APPROVED

MMDadoda
 8/15/2018 4:49:51 PM

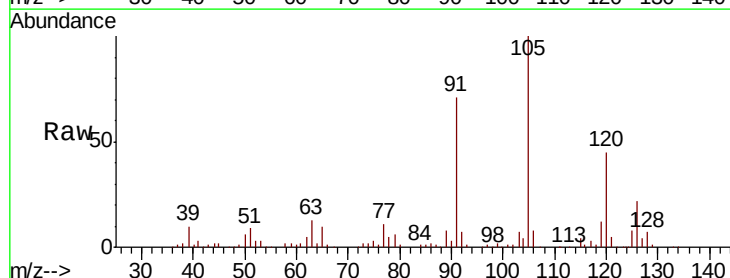


Abundance Ion 91.00 (90.70 to 91.70): VX0
 Ion 125.90 (125.60 to 126.60): V

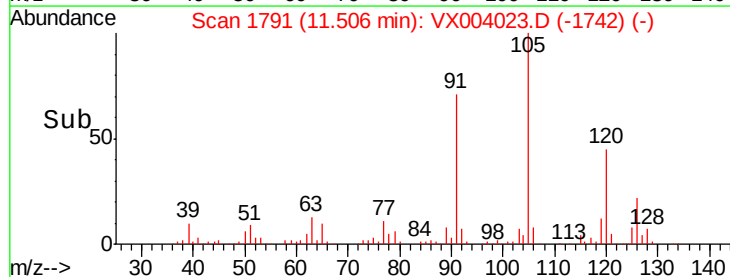
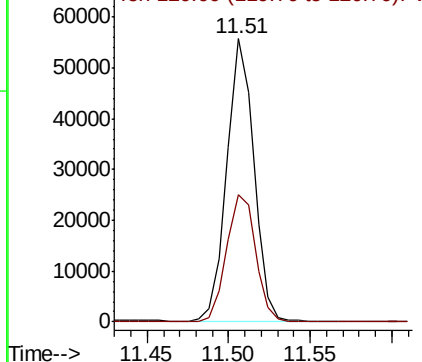


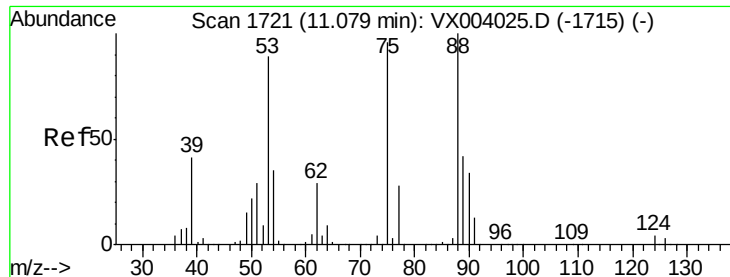
#80
 1,3,5-Trimethylbenzene
 Concen: 4.27 ug/l
 RT: 11.51 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion: 105 Resp: 64440
 Ion Ratio Lower Upper
 105 100
 120 48.4 25.4 76.2



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





#81

trans-1,4-Dichloro-2-butene

Concen: 3.59 ug/l

RT: 11.07 min Scan# 1720

Delta R.T. -0.01 min

Lab File: VX004023.D

Acq: 14 Aug 2018 11:08

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 75 Resp: 6516

Ion Ratio Lower Upper

75 100

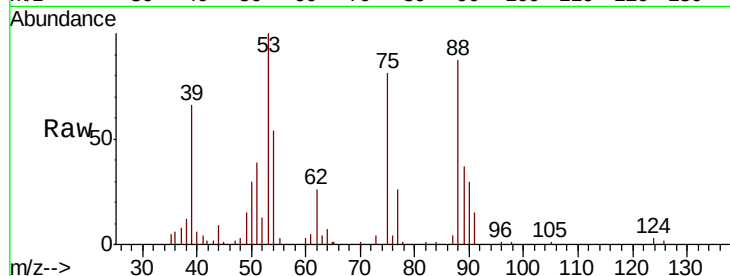
53 122.6 80.3 120.5#

89 52.7 37.8 56.8

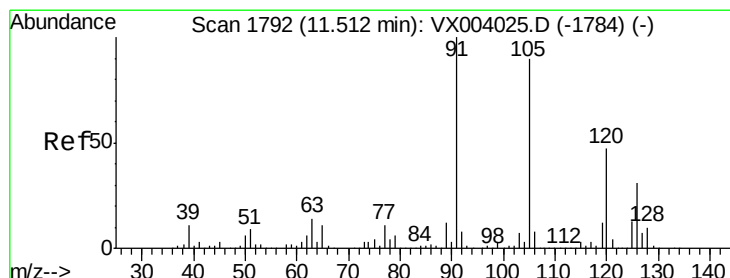
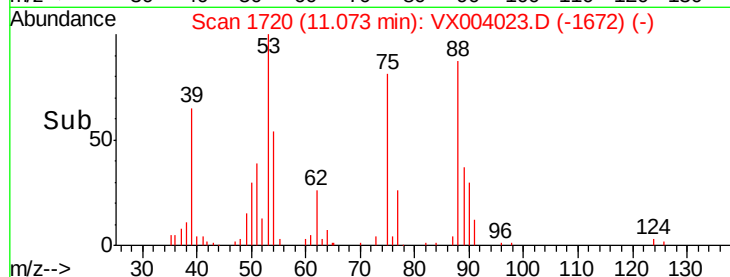
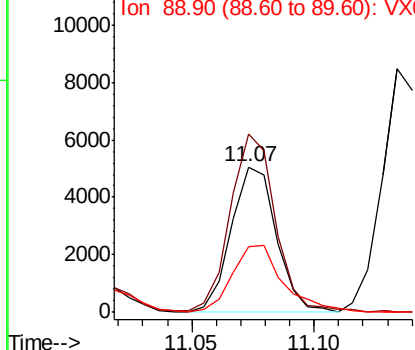
Manual Integrations
APPROVED

MMDadoda

8/15/2018 4:49:51 PM



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 4.32 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004023.D

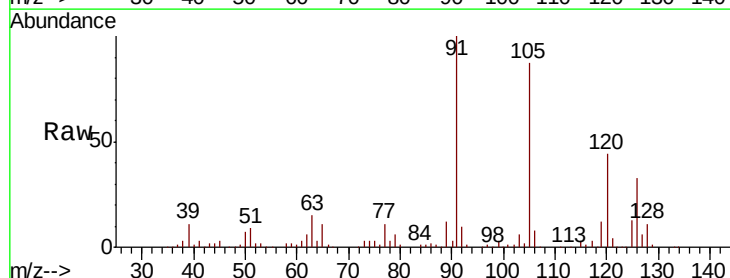
Acq: 14 Aug 2018 11:08

Tgt Ion: 91 Resp: 64193

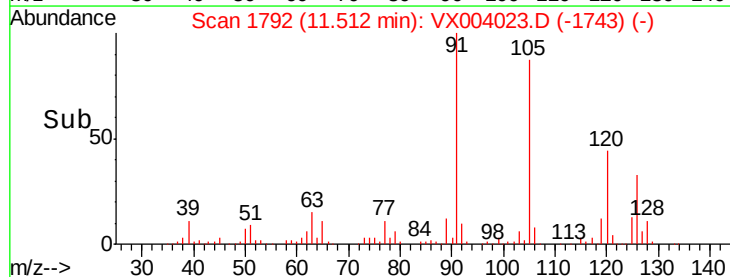
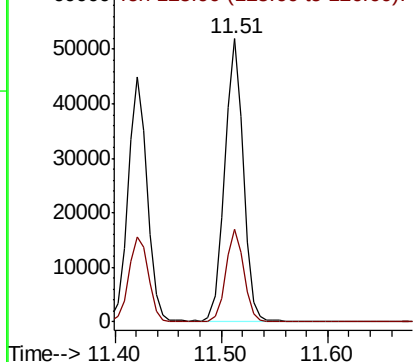
Ion Ratio Lower Upper

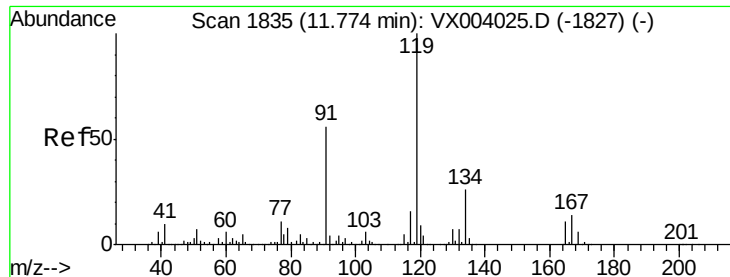
91 100

126 31.6 15.6 46.7



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 125.90 (125.60 to 126.60): V





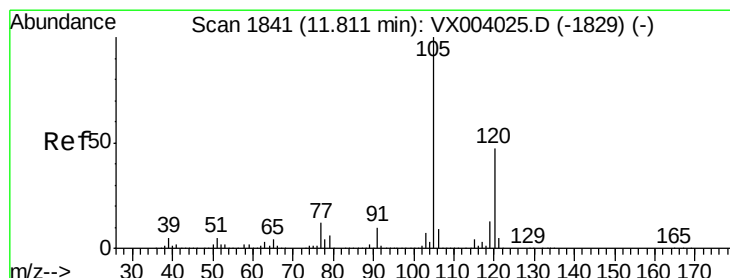
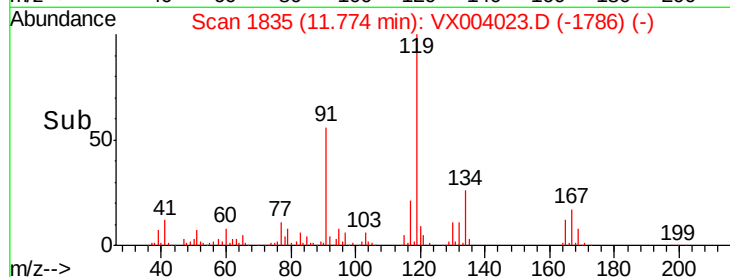
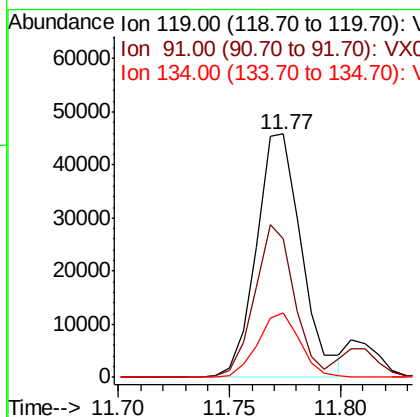
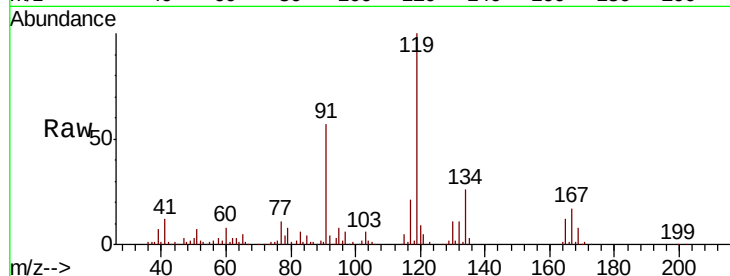
#83
 tert-Butylbenzene
 Concen: 4.35 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	55.4	26.9	80.7
134	24.8	12.0	36.0

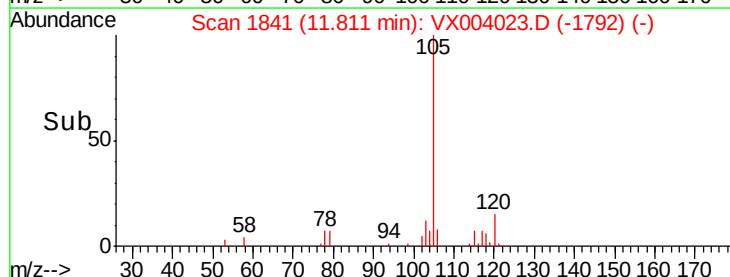
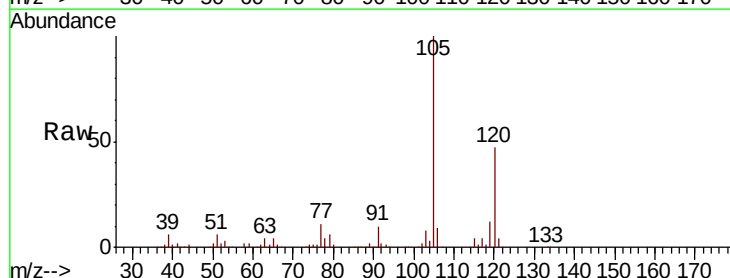
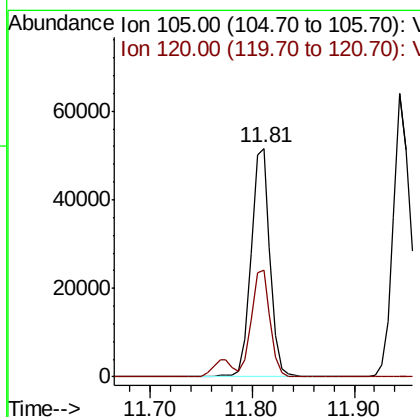
Manual Integrations
 APPROVED

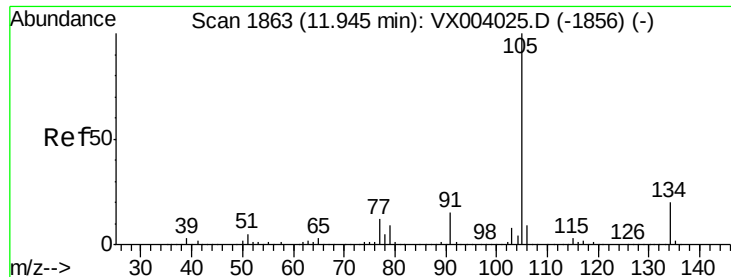
MMDadoda
 8/15/2018 4:49:51 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 4.42 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.1	69.2





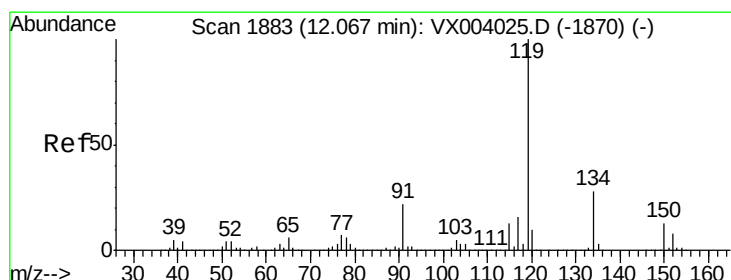
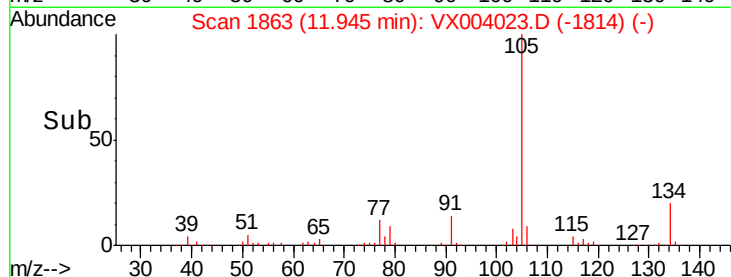
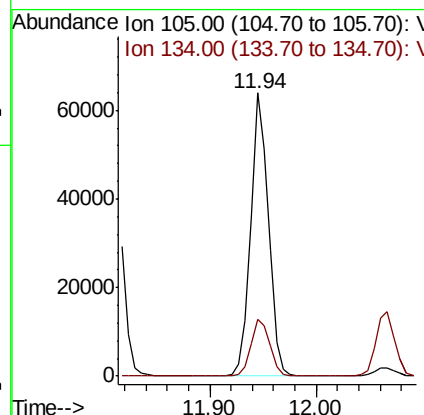
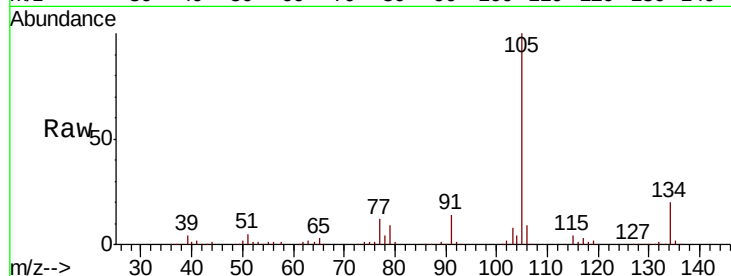
#85
 sec-Butylbenzene
 Concen: 4.30 ug/l
 RT: 11.94 min Scan# 1863
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC005

Tot Ion:105 Resp: 75323
 Ion Ratio Lower Upper
 105 100
 134 21.2 10.3 30.9

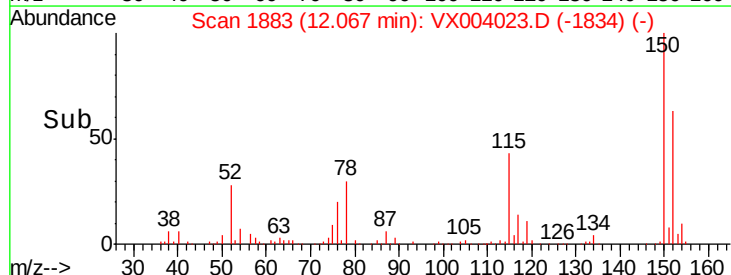
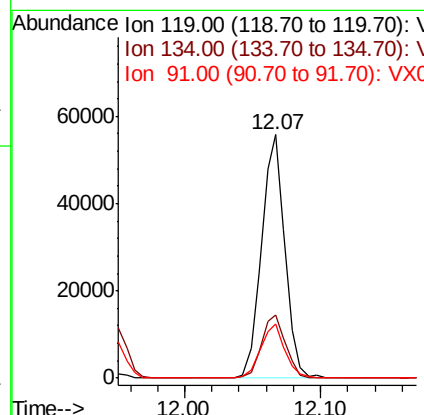
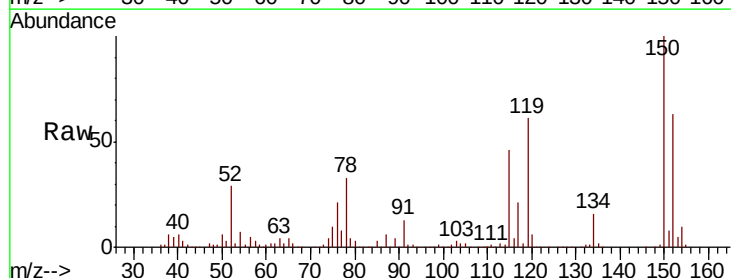
Manual Integrations
 APPROVED

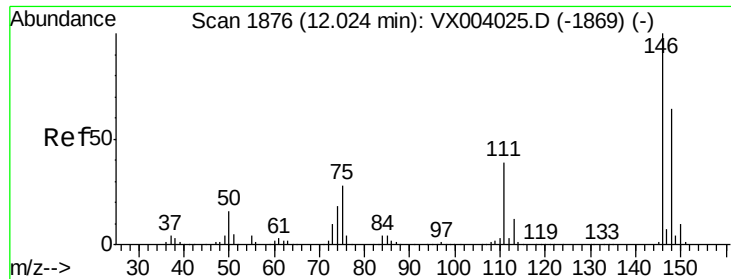
MMDadoda
 8/15/2018 4:49:51 PM



#86
 p-Isopropyltoluene
 Concen: 4.29 ug/l
 RT: 12.07 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion:119 Resp: 67466
 Ion Ratio Lower Upper
 119 100
 134 26.9 13.3 39.8
 91 23.2 10.9 32.7





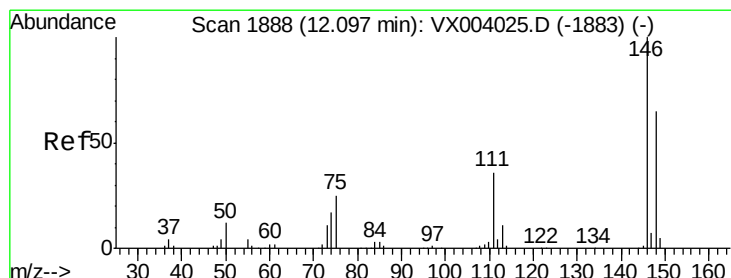
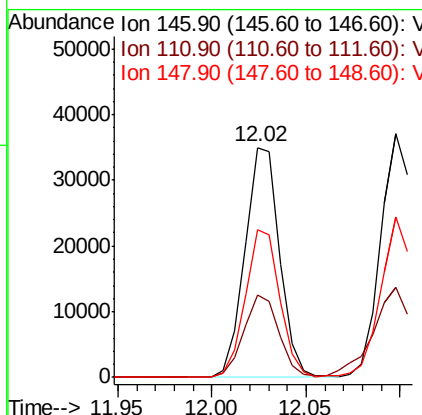
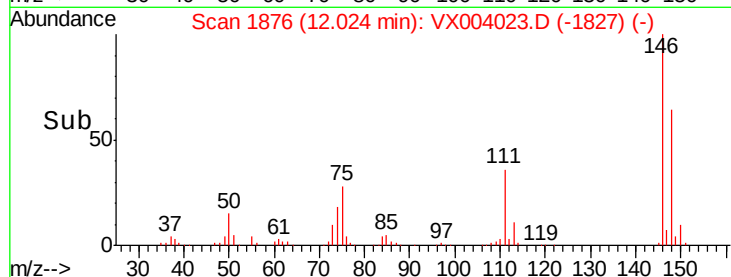
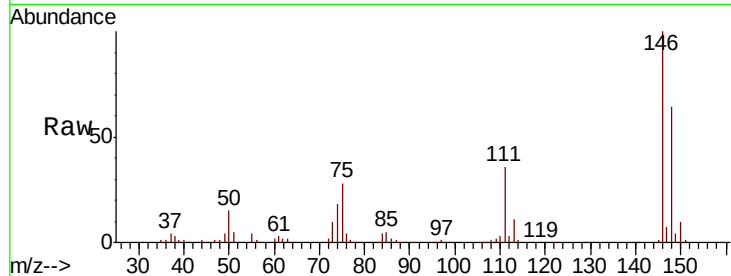
#87
 1,3-Dichlorobenzene
 Concen: 4.90 ug/l
 RT: 12.02 min Scan# 1876
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.8	56.4
148	63.6	31.9	95.5

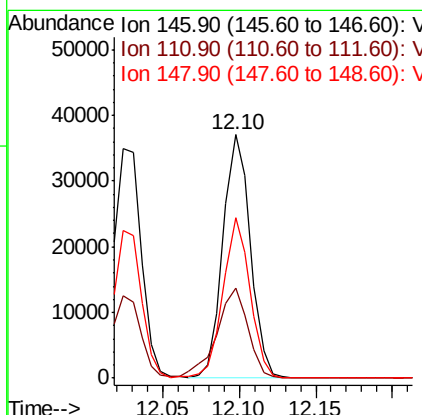
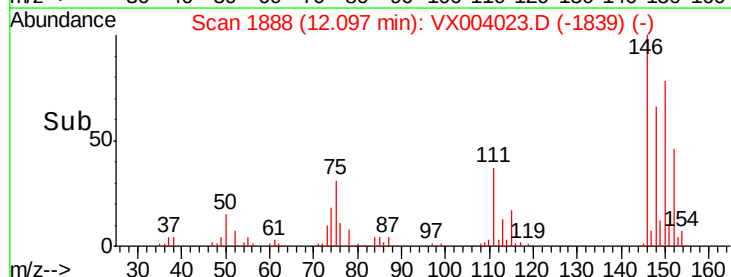
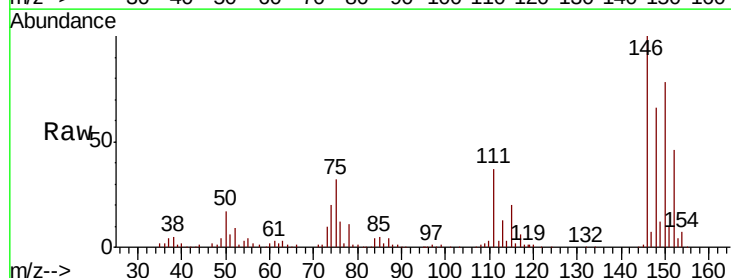
Manual Integrations
 APPROVED

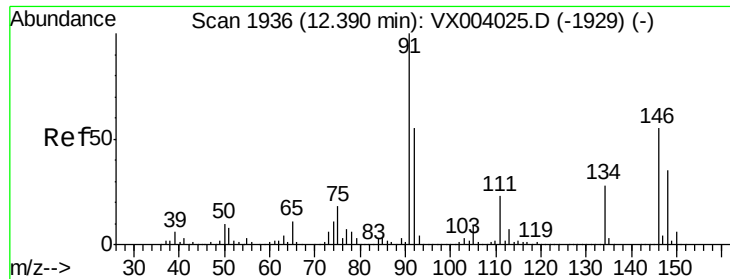
MMDadoda
 8/15/2018 4:49:51 PM



#88
 1,4-Dichlorobenzene
 Concen: 4.85 ug/l
 RT: 12.10 min Scan# 1888
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	18.4	55.0
148	65.0	32.3	96.8





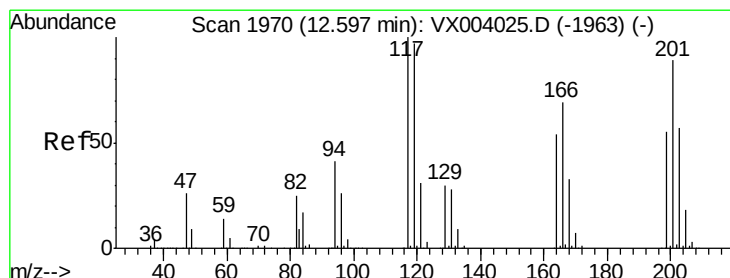
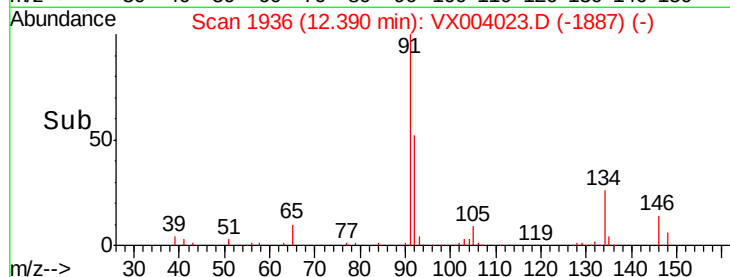
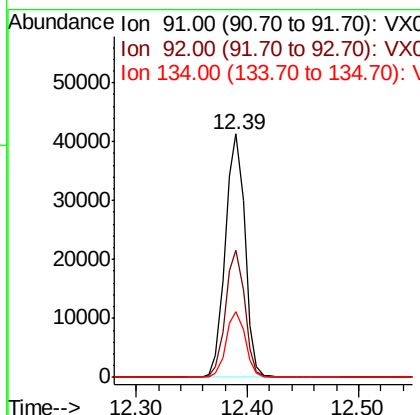
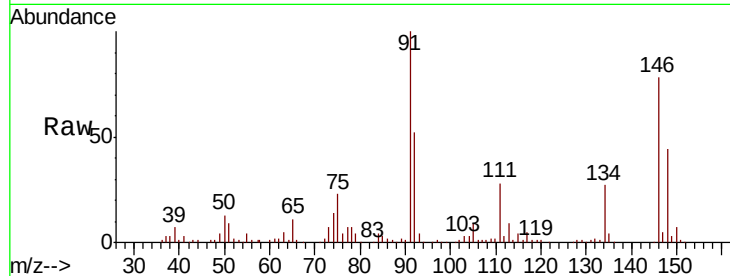
#89
n-Butylbenzene
Concen: 3.69 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.0	27.1	81.3
134	26.2	13.6	40.7

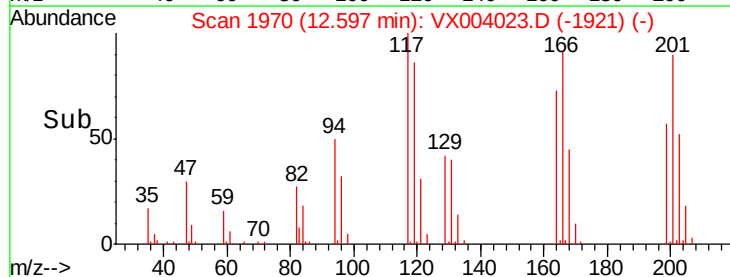
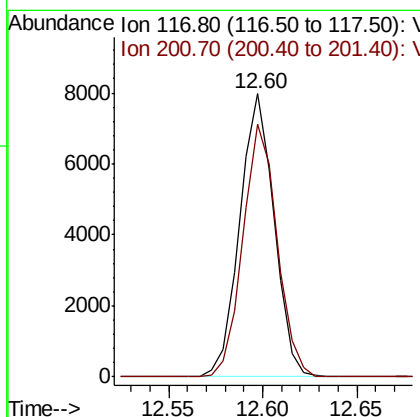
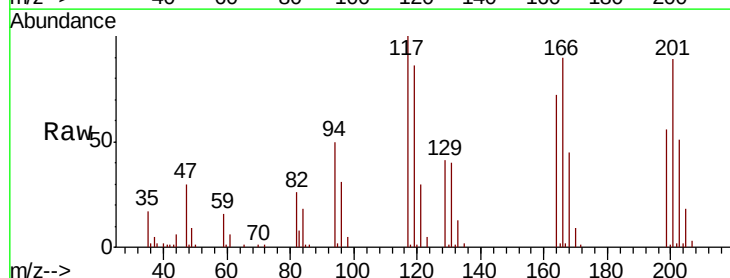
Manual Integrations
APPROVED

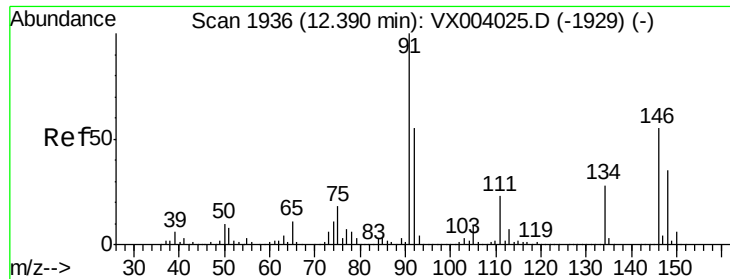
MMDadoda
8/15/2018 4:49:51 PM



#90
Hexachloroethane
Concen: 3.94 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.9	46.1	138.2





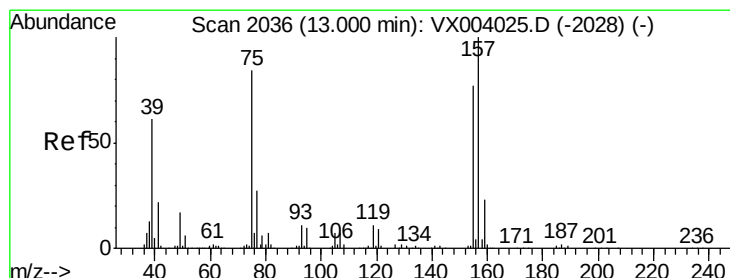
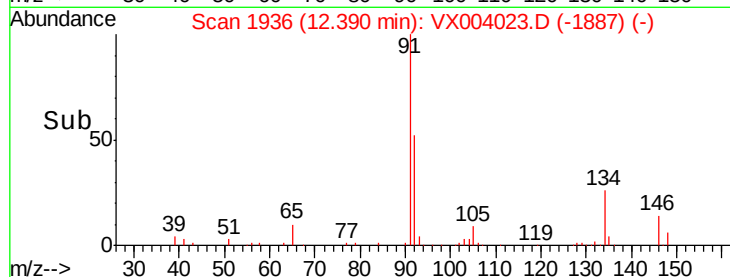
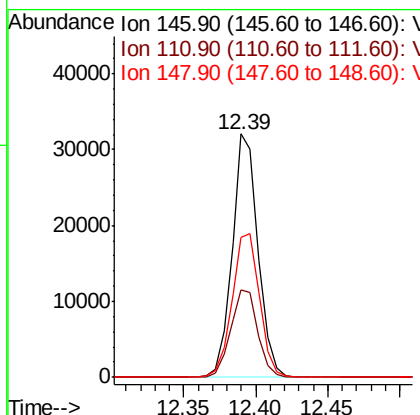
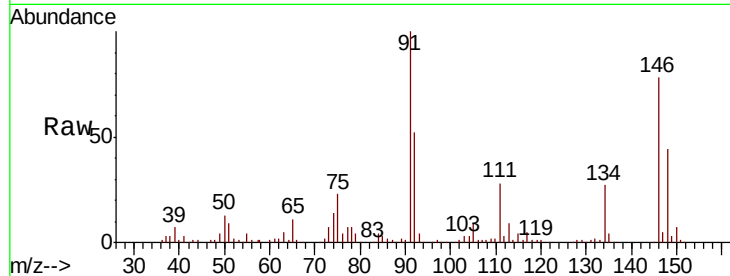
#91
 1,2-Dichlorobenzene
 Concen: 4.43 ug/l
 RT: 12.39 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.7	59.0
148	62.6	31.9	95.5

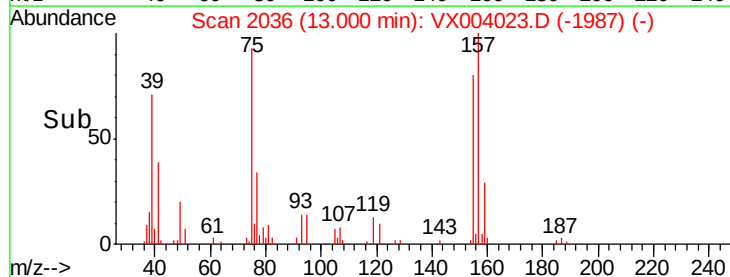
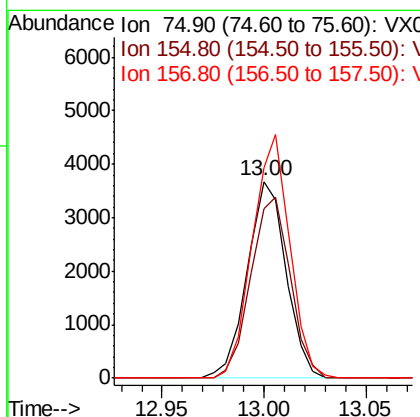
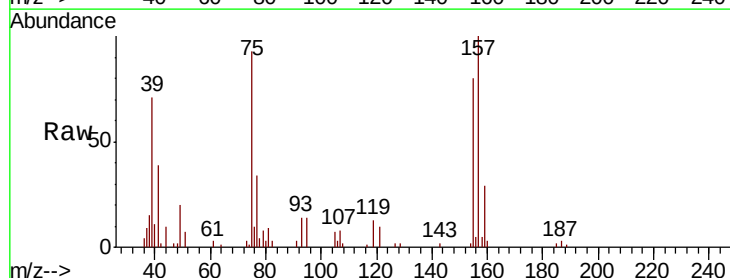
Manual Integrations
 APPROVED

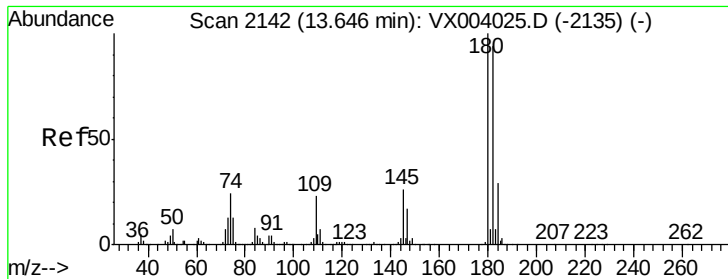
MMDadoda
 8/15/2018 4:49:51 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.73 ug/l
 RT: 13.00 min Scan# 2036
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.9	48.7	146.1
157	119.6	62.6	187.8





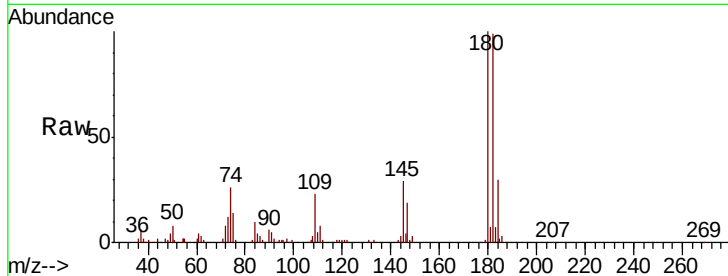
#93
 1,2,4-Trichlorobenzene
 Concen: 3.54 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.7	143.1
145	27.5	13.9	41.6

Manual Integrations
 APPROVED

MMDadoda
 8/15/2018 4:49:51 PM

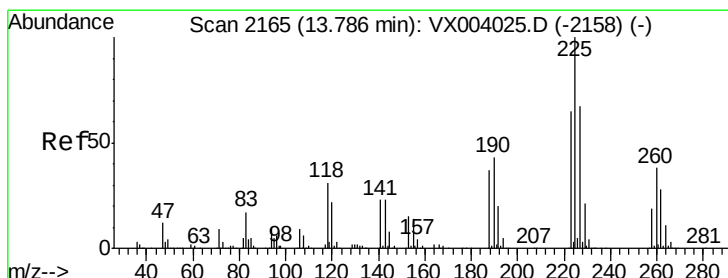
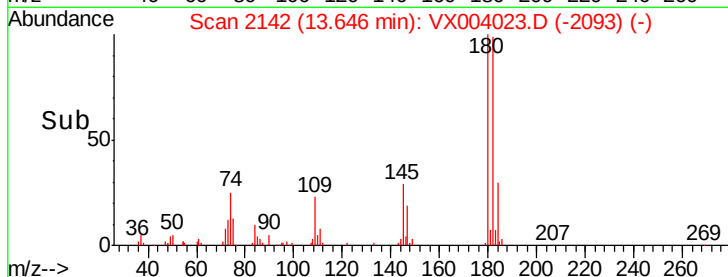
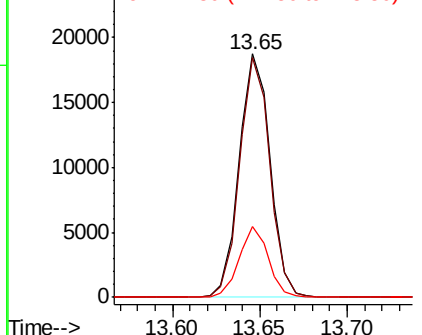


Abundance

Ion 179.80 (179.50 to 180.50): V

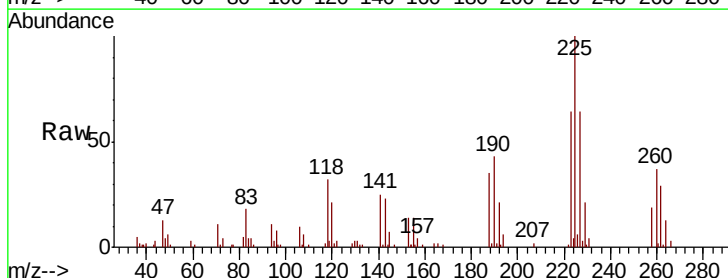
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 3.96 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VX004023.D
 Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.4	94.0
227	61.6	32.1	96.5

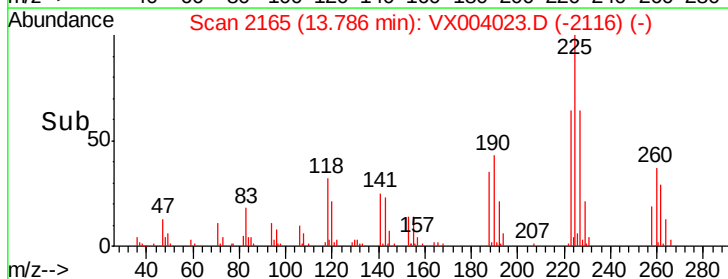
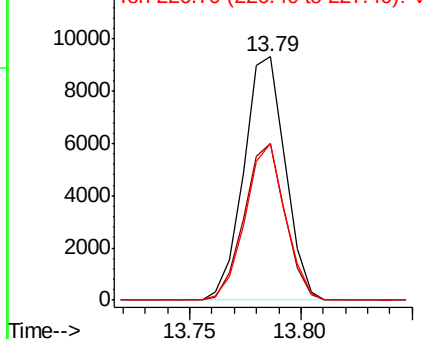


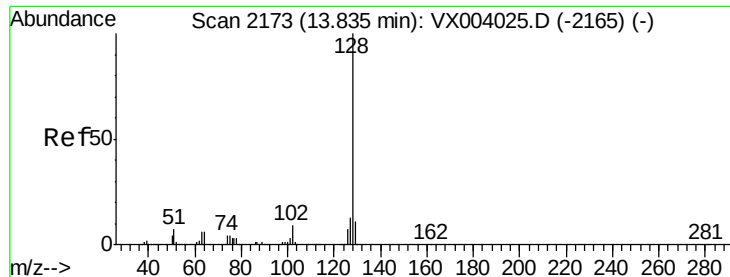
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





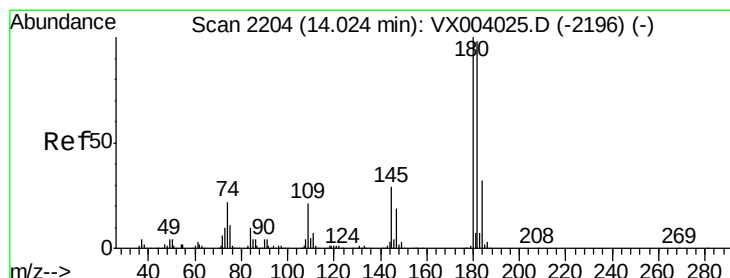
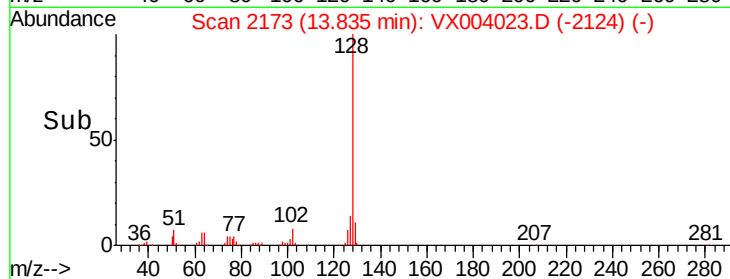
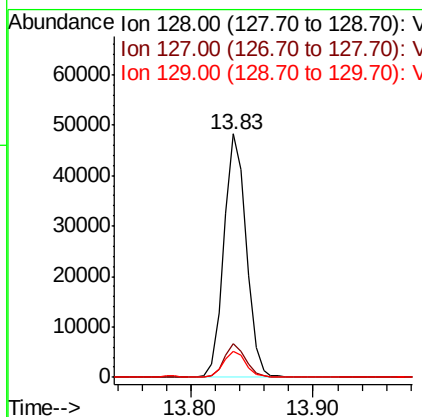
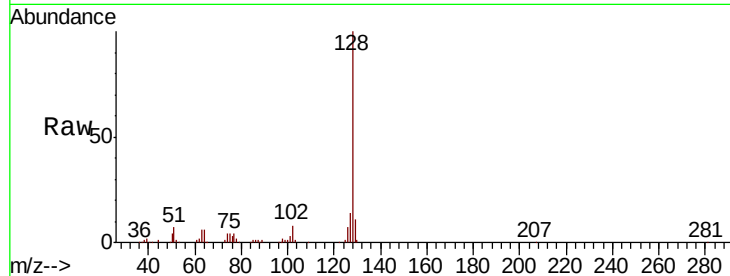
#95
Naphthalene
Concen: 3.26 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.2
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/15/2018 4:49:51 PM



#96
1,2,3-Trichlorobenzene
Concen: 3.88 ug/l
RT: 14.02 min Scan# 2204
Delta R.T. -0.00 min
Lab File: VX004023.D
Acq: 14 Aug 2018 11:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.1	144.4
145	29.3	14.9	44.7

