

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
 Data File : VX013033.D
 Acq On : 11 Oct 2019 21:46
 Operator : JC/SP
 Sample : K5306-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 391009760.2-VOA

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 1:35:43 PM

Quant Time: Oct 14 09:33:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	165639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	269842	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	230918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	89038	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	103874	50.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.34%	
35) Dibromofluoromethane	5.49	113	77913	50.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.62%	
50) Toluene-d8	8.71	98	320436	53.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.10%	
62) 4-Bromofluorobenzene	11.13	95	105977	45.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.30%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	732	0.386	ug/l #	69
8) Diethyl Ether	2.18	74	6745	6.528	ug/l	96
11) Tert butyl alcohol	3.03	59	2719011	4954.363	ug/l	99
16) Acetone	2.43	43	24203	22.179	ug/l	98
17) Carbon Disulfide	2.56	76	2091	0.438	ug/l #	93
19) Methyl tert-butyl Ether	3.18	73	14900	2.578	ug/l	94
29) Tetrahydrofuran	5.11	42	788871	846.763	ug/l	99
40) Benzene	6.14	78	19939	2.846	ug/l	96
49) 1,4-Dioxane	7.73	88	6171	142.021	ug/l	98
51) 4-Methyl-2-Pentanone	8.64	43	26788m	10.091	ug/l	
52) Toluene	8.78	92	11600	2.588	ug/l	99
65) Chlorobenzene	10.14	112	3705	0.808	ug/l #	76
67) Ethyl Benzene	10.24	91	5732	0.704	ug/l	100
68) m/p-Xylenes	10.35	106	30200	9.924	ug/l	99
69) o-Xylene	10.70	106	17647	5.947	ug/l	92
73) Isopropylbenzene	11.01	105	7409	1.132	ug/l	97
80) 1,3,5-Trimethylbenzene	11.50	105	5668	1.037	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	18429	3.329	ug/l	93
88) 1,4-Dichlorobenzene	12.09	146	12438	4.287	ug/l	85
91) 1,2-Dichlorobenzene	12.38	146	1322	0.471	ug/l #	81
95) Naphthalene	13.83	128	9722	1.594	ug/l	98

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

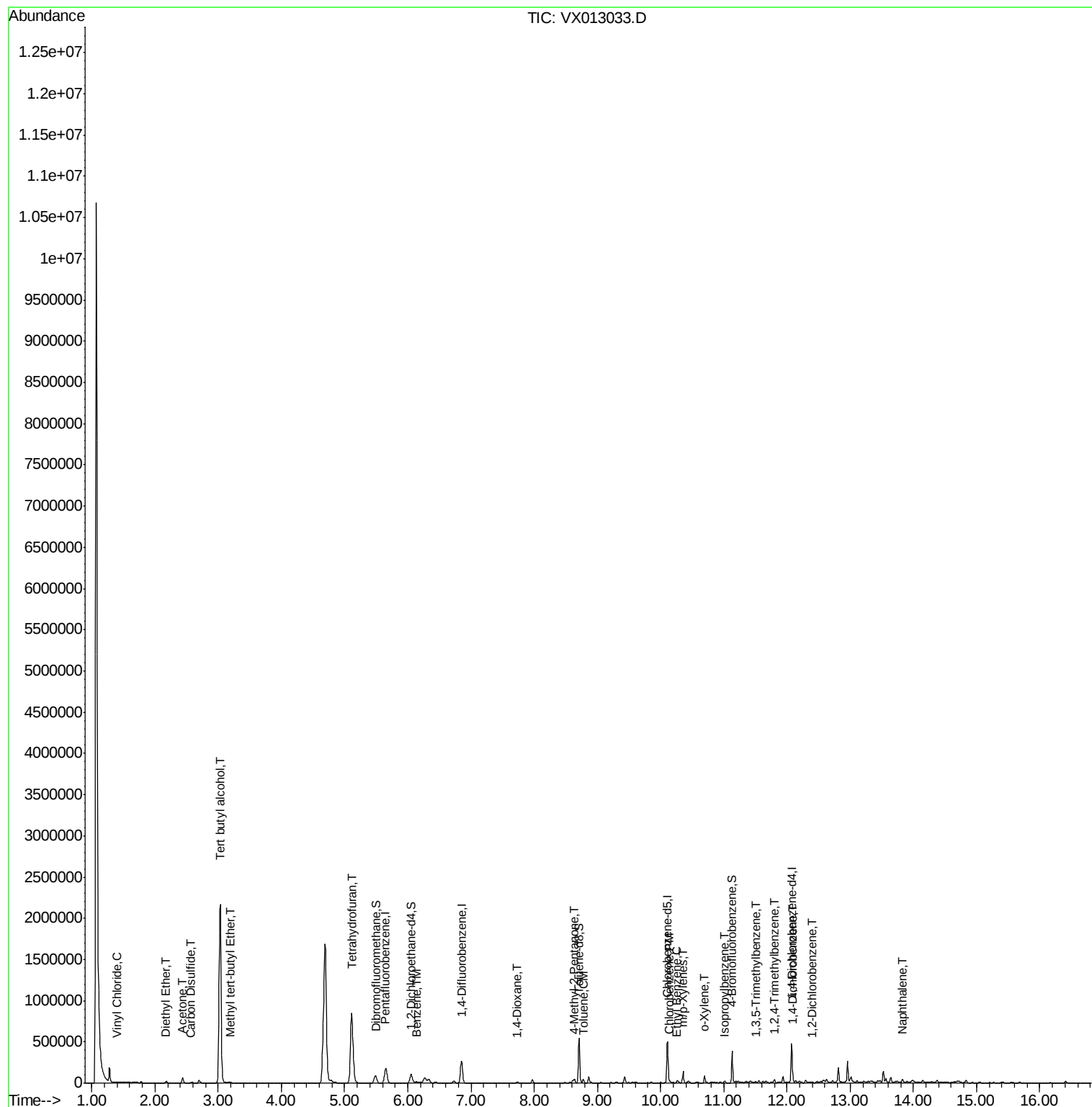
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
Data File : VX013033.D
Acq On : 11 Oct 2019 21:46
Operator : JC/SP
Sample : K5306-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 25 Sample Multiplier: 1

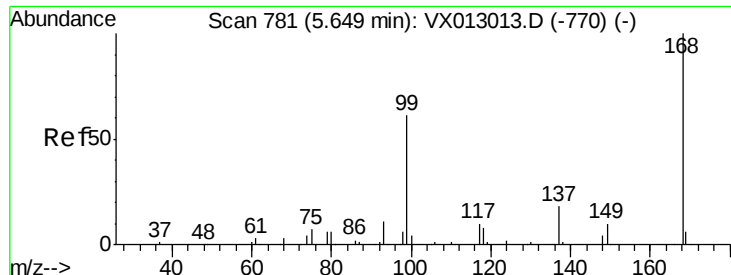
Instrument :
MSVOA_X
ClientSampleId :
391009760.2-VOA

Manual Integrations
APPROVED

MMDadoda
10/16/2019 1:35:43 PM

Quant Time: Oct 14 09:33:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:48:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

Instrument :

MSVOA_X

ClientSampleId :

391009760.2-VOA

Tot Ion:168 Resp: 165639

Ion Ratio Lower Upper

168 100

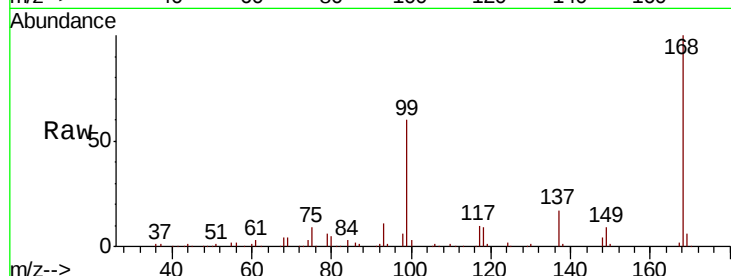
99 59.9 49.4 74.0

Manual Integrations

APPROVED

MMDadoda

10/16/2019 1:35:43 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

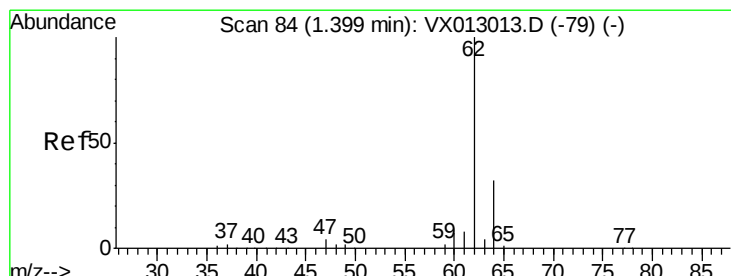
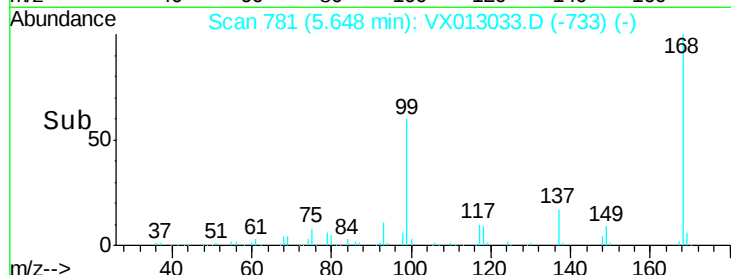
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#4

Vinyl Chloride

Concen: 0.386 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013033.D

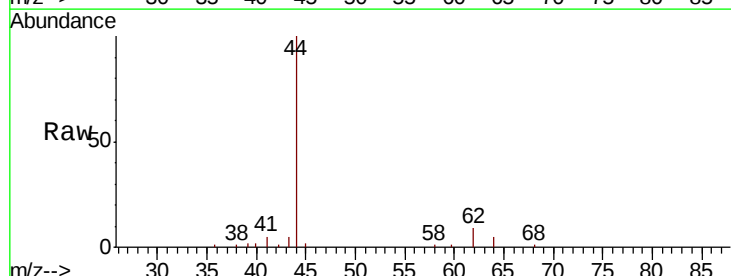
Acq: 11 Oct 2019 21:46

Tgt Ion: 62 Resp: 732

Ion Ratio Lower Upper

62 100

64 48.7 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

800

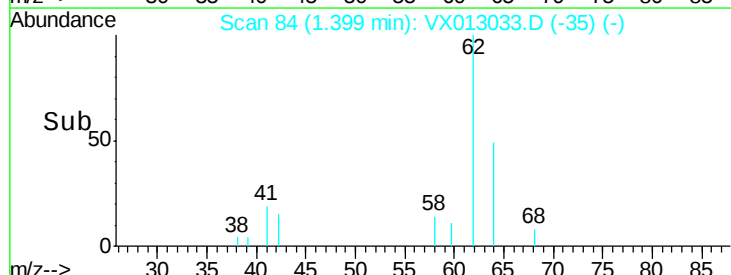
600

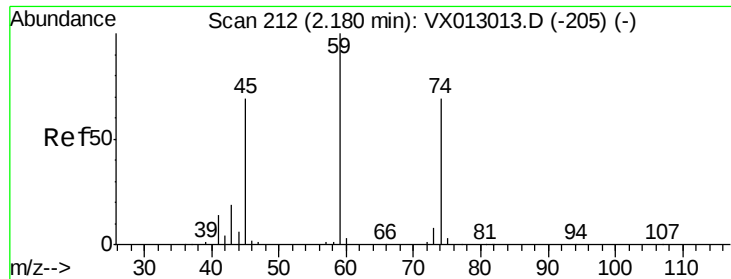
400

200

0

Time--> 1.35 1.40 1.45





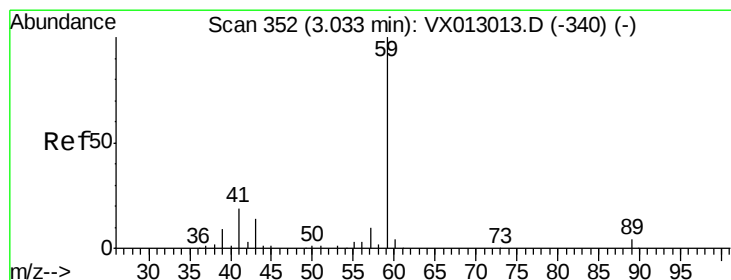
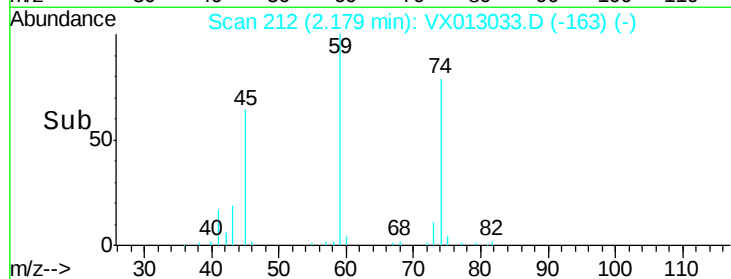
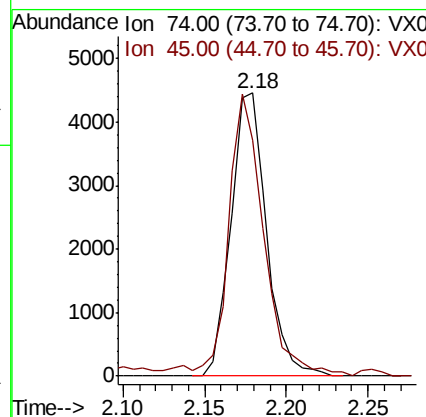
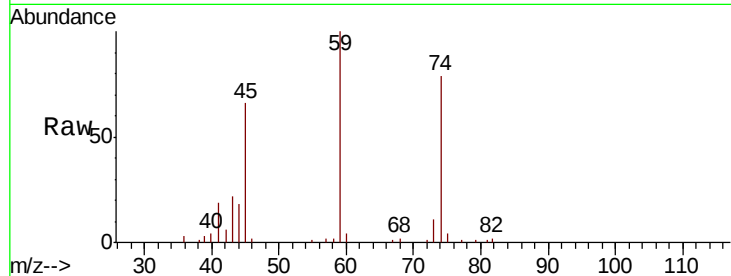
#8
 Diethyl Ether
 Concen: 6.528 ug/l
 RT: 2.18 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX013033.D
 Acq: 11 Oct 2019 21:46

Instrument :
 MSVOA_X
 ClientSampleId :
 391009760.2-VOA

Tot Ion: 74 Resp: 6745
 Ion Ratio Lower Upper
 74 100
 45 99.6 47.8 143.4

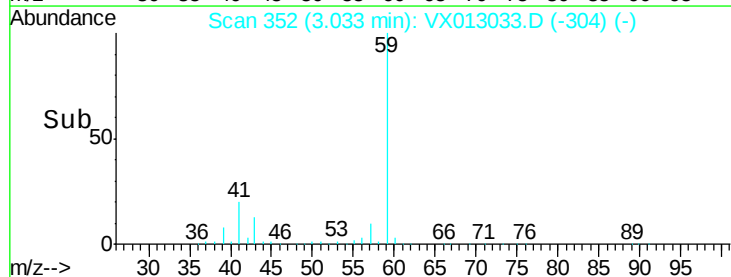
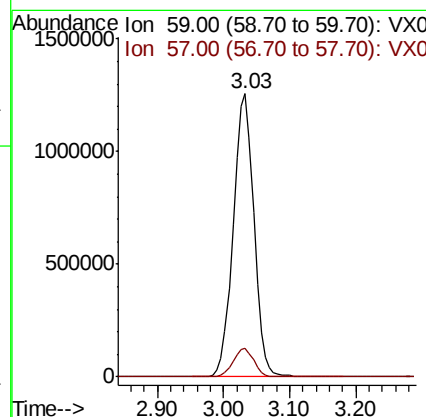
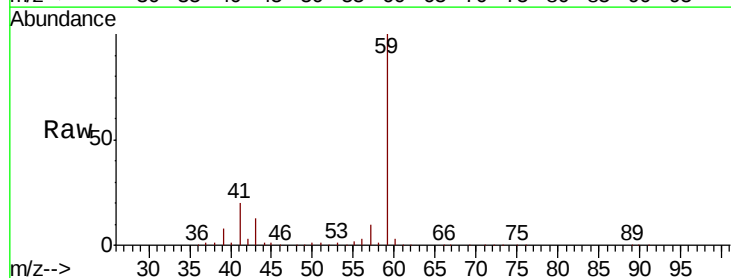
Manual Integrations
 APPROVED

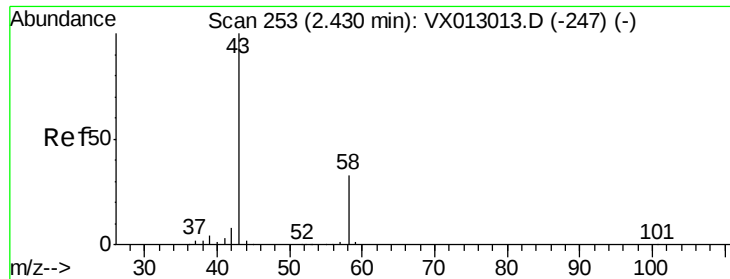
MMDadoda
 10/16/2019 1:35:43 PM



#11
 Tert butyl alcohol
 Concen: 4954.363 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX013033.D
 Acq: 11 Oct 2019 21:46

Tgt Ion: 59 Resp: 2719011
 Ion Ratio Lower Upper
 59 100
 57 10.1 8.3 12.5





#16

Acetone

Concen: 22.179 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

Instrument :

MSVOA_X

ClientSampleId :

391009760.2-VOA

Tot Ion: 43 Resp: 24203

Ion Ratio Lower Upper

43 100

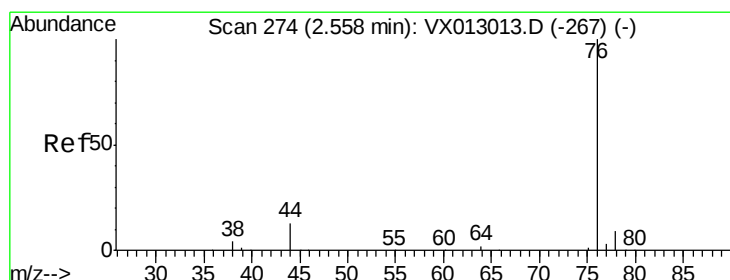
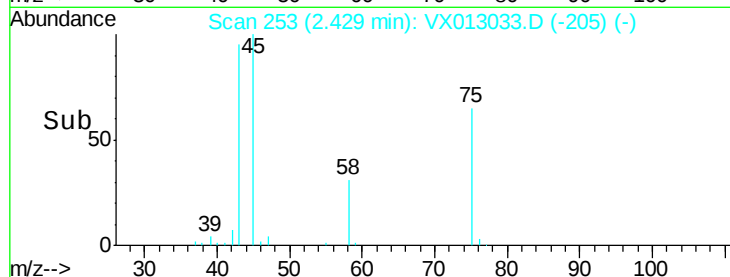
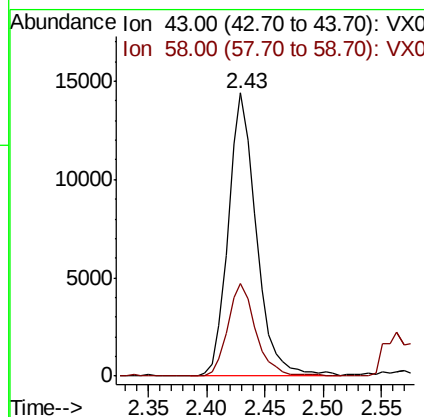
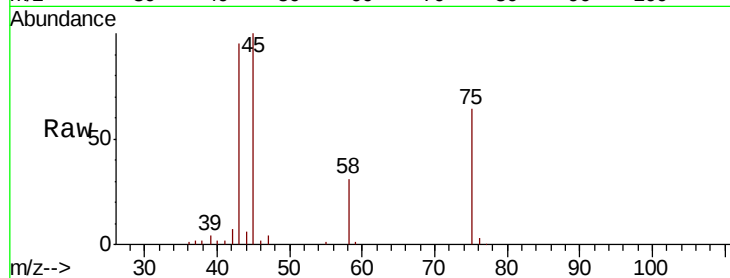
58 32.7 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

10/16/2019 1:35:43 PM



#17

Carbon Disulfide

Concen: 0.438 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013033.D

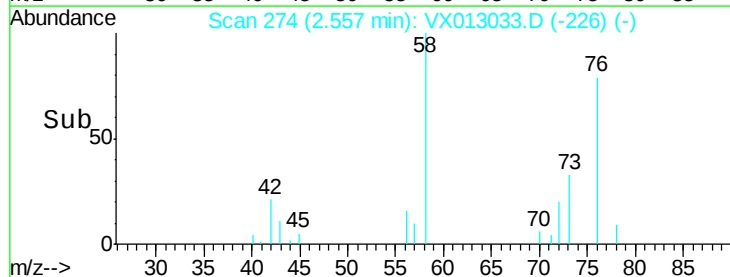
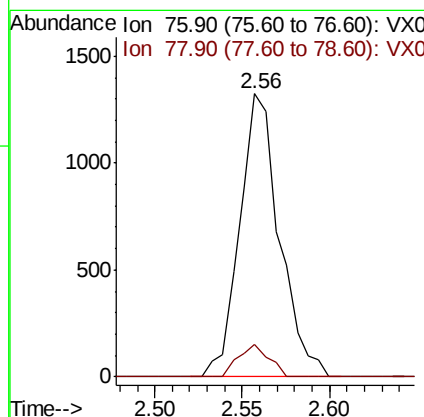
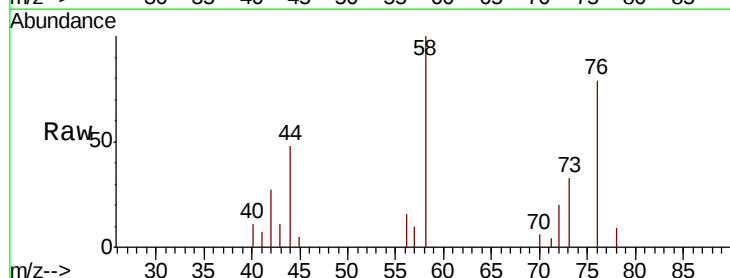
Acq: 11 Oct 2019 21:46

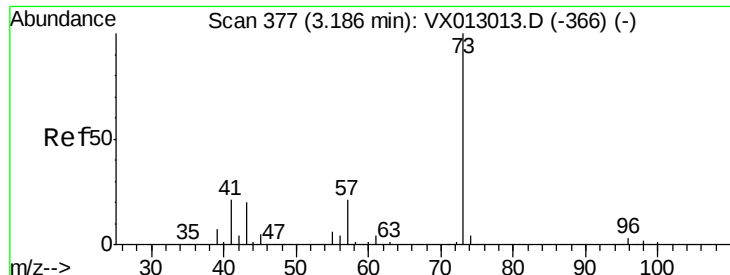
Tgt Ion: 76 Resp: 2091

Ion Ratio Lower Upper

76 100

78 11.3 7.1 10.7#





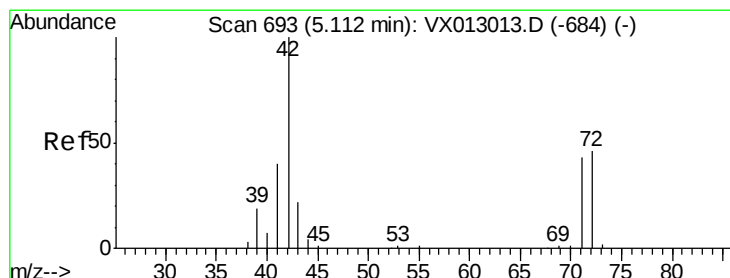
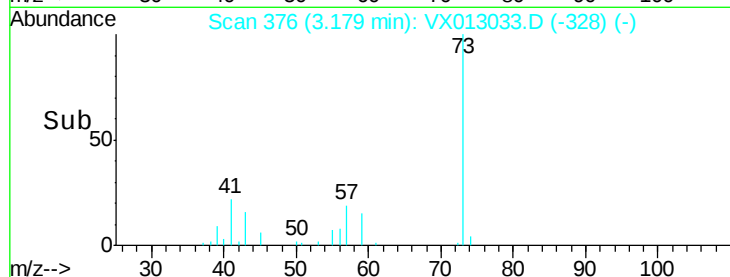
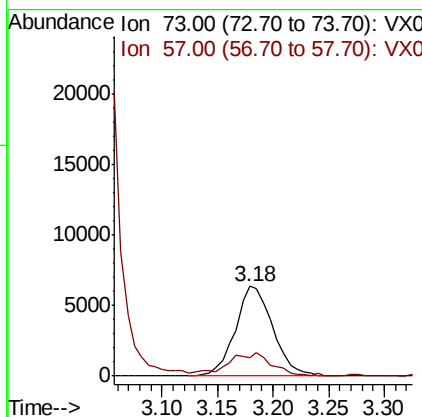
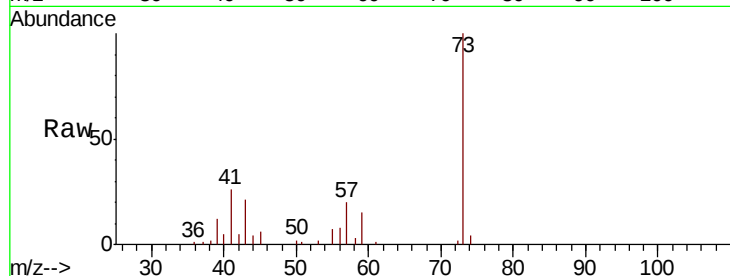
#19
Methvl tert-butvl Ether
Concen: 2.578 ug/l
RT: 3.18 min Scan# 376
Delta R.T. -0.01 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Instrument :
MSVOA_X
ClientSampleId :
391009760.2-VOA

Tot Ion: 73 Resp: 14900
Ion Ratio Lower Upper
73 100
57 19.1 17.8 26.6

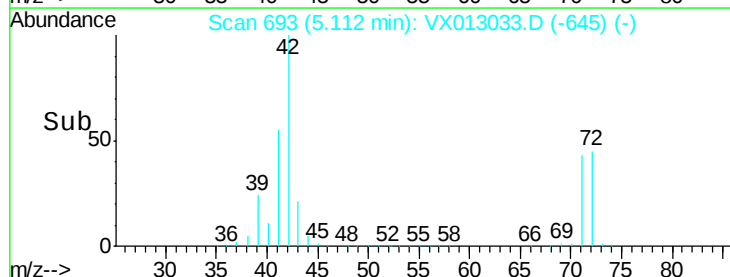
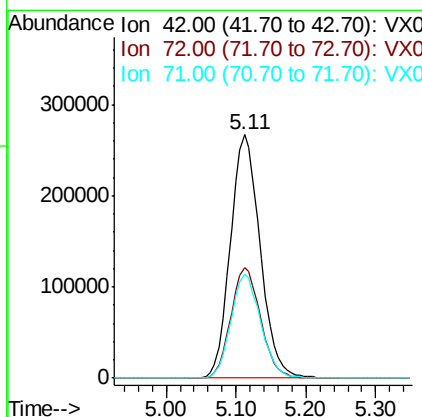
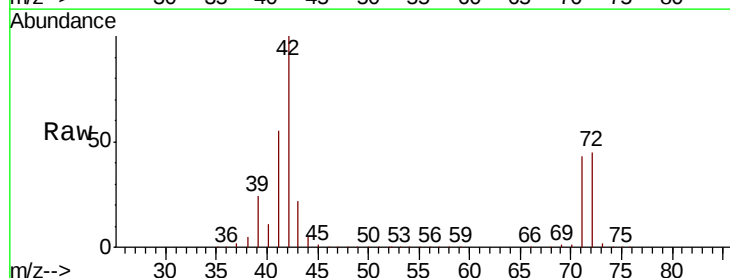
Manual Integrations
APPROVED

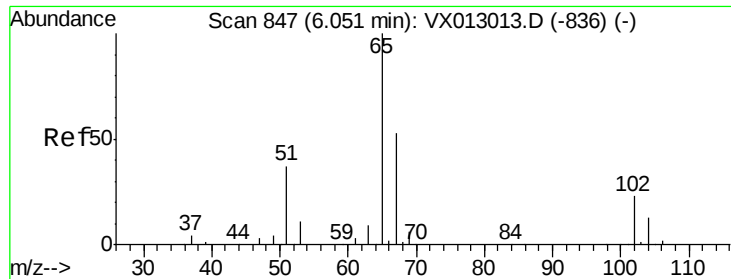
MMDadoda
10/16/2019 1:35:43 PM



#29
Tetrahydrofuran
Concen: 846.763 ug/l
RT: 5.11 min Scan# 693
Delta R.T. -0.01 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Tgt Ion: 42 Resp: 788871
Ion Ratio Lower Upper
42 100
72 45.5 36.9 55.3
71 42.8 33.5 50.3





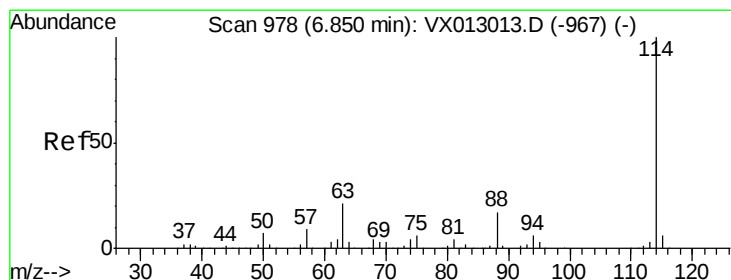
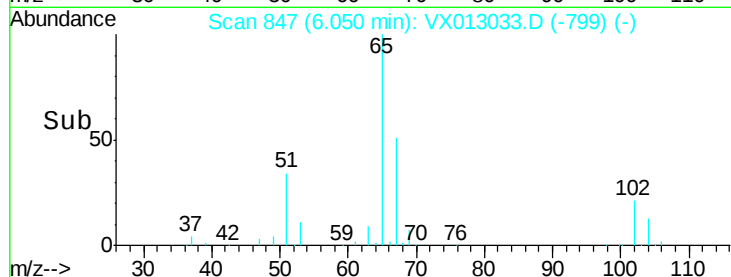
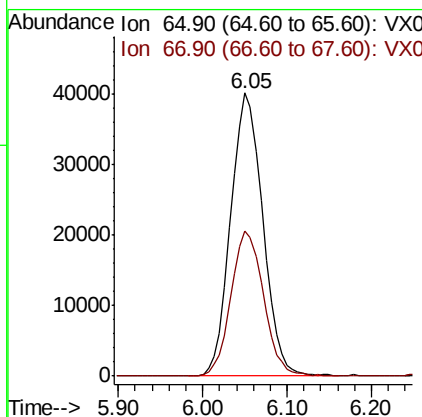
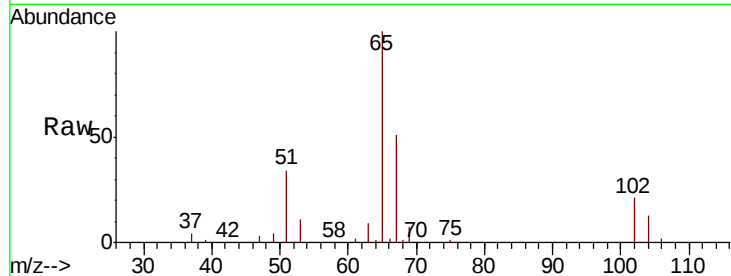
#33
 1,2-Dichloroethane-d4
 Concen: 50.174 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013033.D
 Acq: 11 Oct 2019 21:46

Instrument :
 MSVOA_X
 ClientSampleId :
 391009760.2-VOA

Tot Ion	Ratio	Resp	Lower	Upper
65	100	103874		
67	51.9	0.0	104.4	

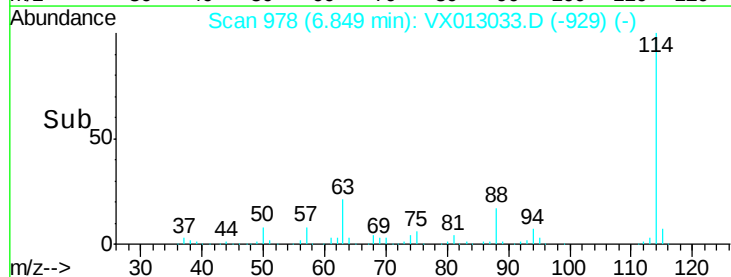
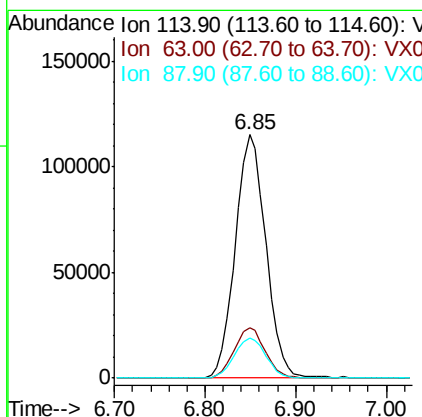
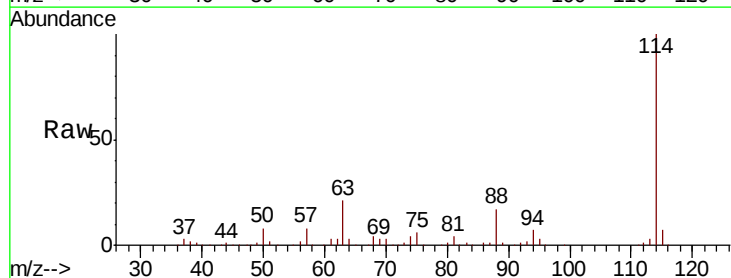
Manual Integrations
 APPROVED

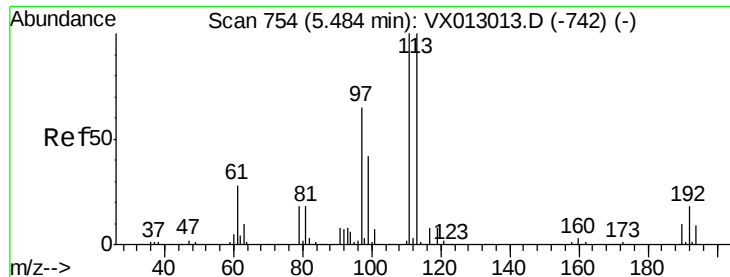
MMDadoda
 10/16/2019 1:35:43 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013033.D
 Acq: 11 Oct 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	269842		
63	20.6	0.0	40.8	
88	16.6	0.0	33.8	





#35

Dibromofluoromethane

Concen: 50.307 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

Instrument :

MSVOA_X

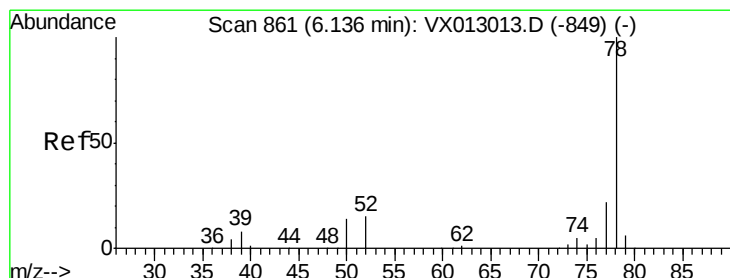
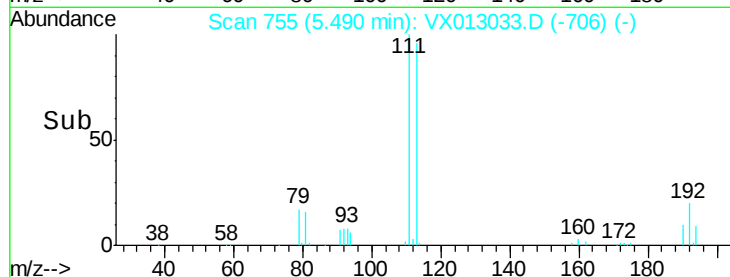
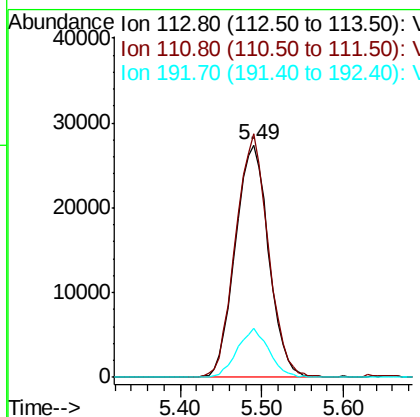
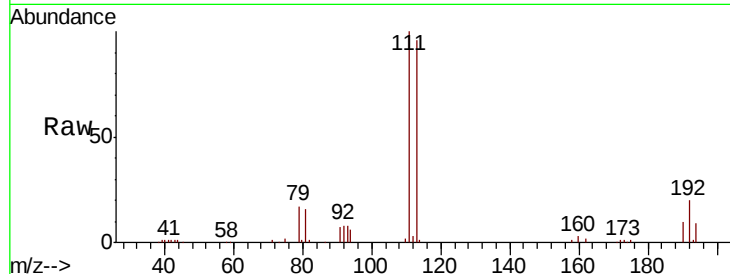
ClientSampleId :

391009760.2-VOA

Tot Ion:	113	Resp:	77913
Ion Ratio	Lower	Upper	
113	100		
111	102.4	83.2	124.8
192	19.9	15.4	23.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 1:35:43 PM



#40

Benzene

Concen: 2.846 ug/l

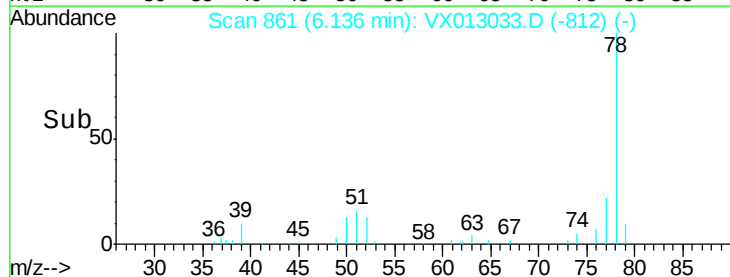
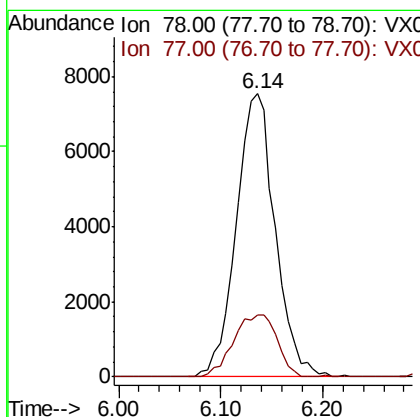
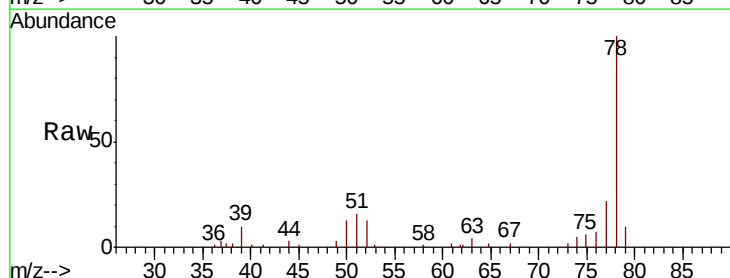
RT: 6.14 min Scan# 861

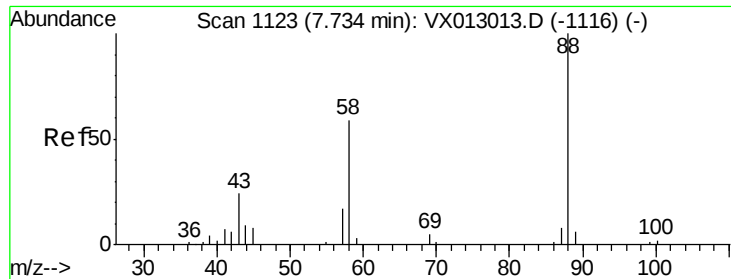
Delta R.T. -0.00 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

Tgt Ion:	78	Resp:	19939
Ion Ratio	Lower	Upper	
78	100		
77	21.8	19.0	28.4





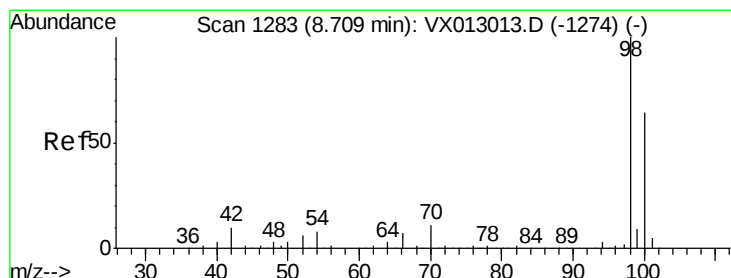
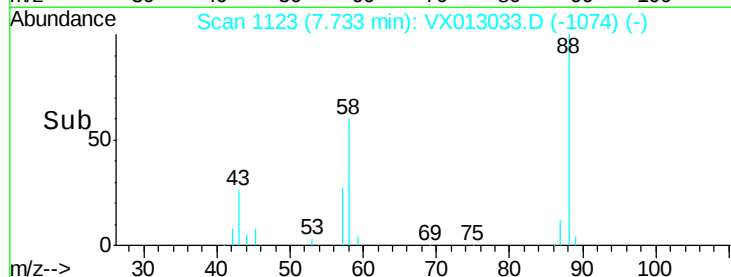
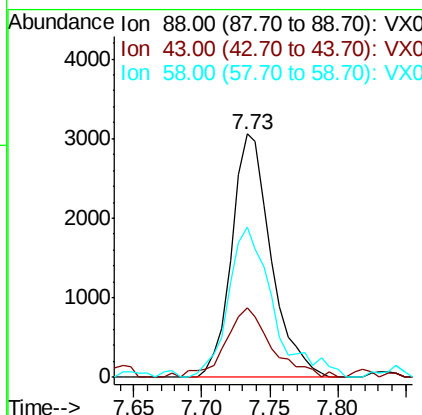
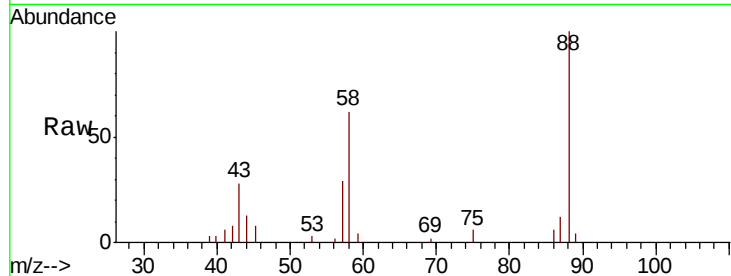
#49
1,4-Dioxane
Concen: 142.021 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Instrument :
MSVOA_X
ClientSampleId :
391009760.2-VOA

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.4	25.0	37.6
58	70.2	55.4	83.2

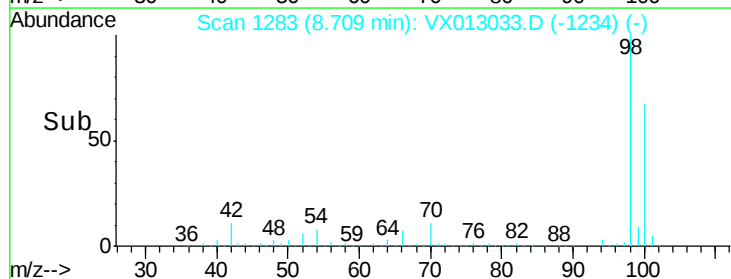
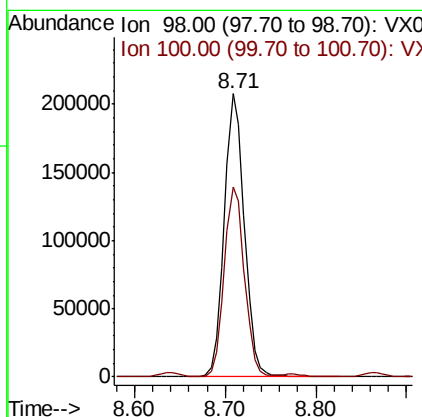
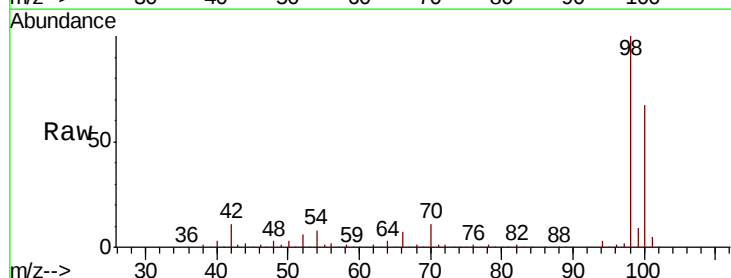
Manual Integrations
APPROVED

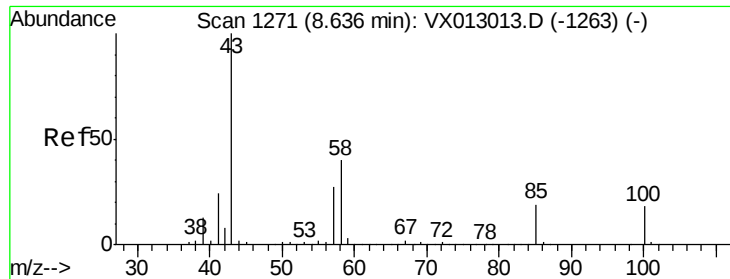
MMDadoda
10/16/2019 1:35:43 PM



#50
Toluene-d8
Concen: 53.048 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.4	80.2





#51

4-Methyl-2-Pentanone

Concen: 10.091 ug/l m

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

Instrument :

MSVOA_X

ClientSampled :

391009760.2-VOA

Tot Ion: 43 Resp: 26788

Ion Ratio Lower Upper

43 100

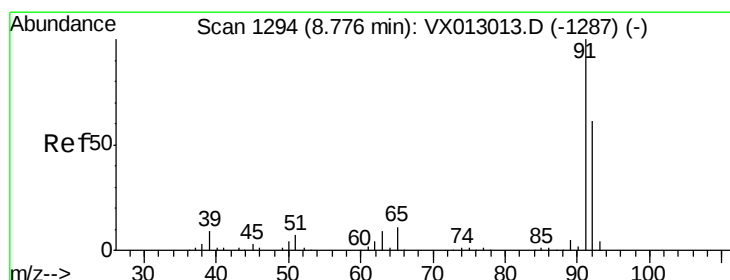
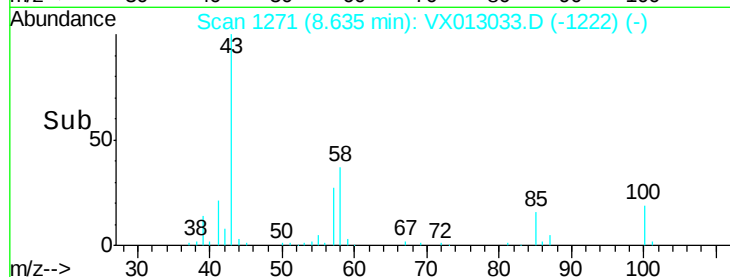
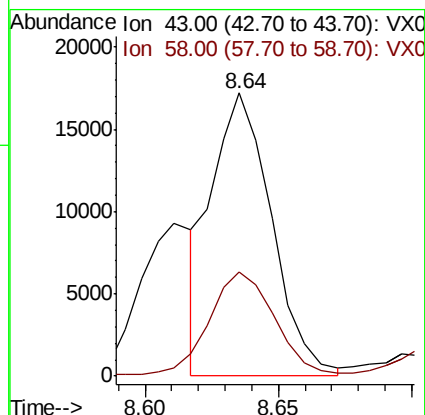
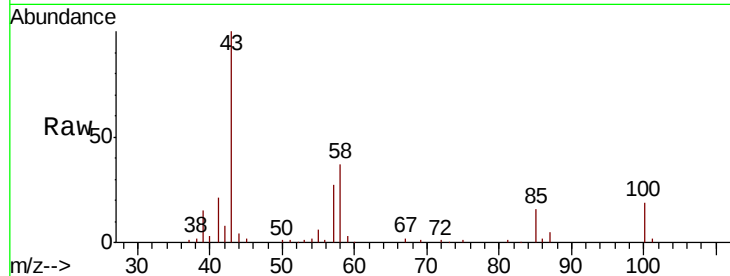
58 40.3 32.4 48.6

Manual Integrations

APPROVED

MMDadoda

10/16/2019 1:35:43 PM



#52

Toluene

Concen: 2.588 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013033.D

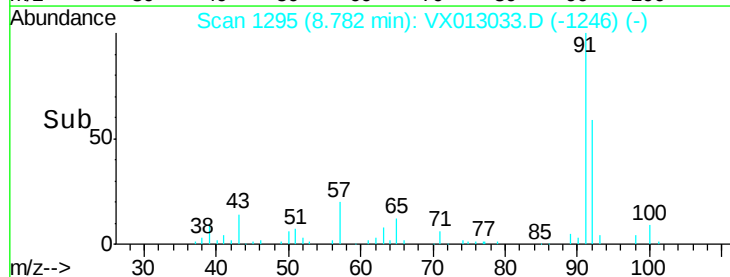
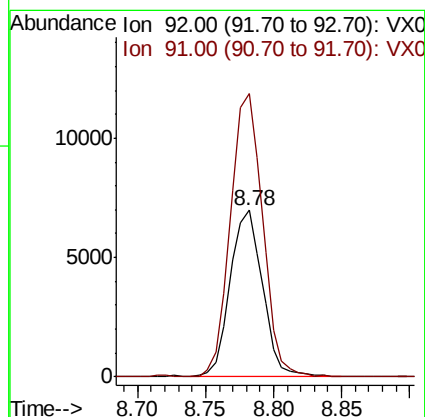
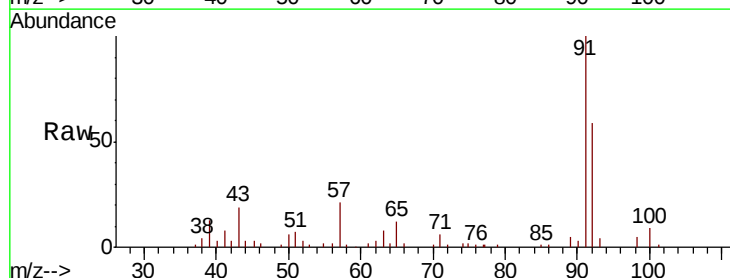
Acq: 11 Oct 2019 21:46

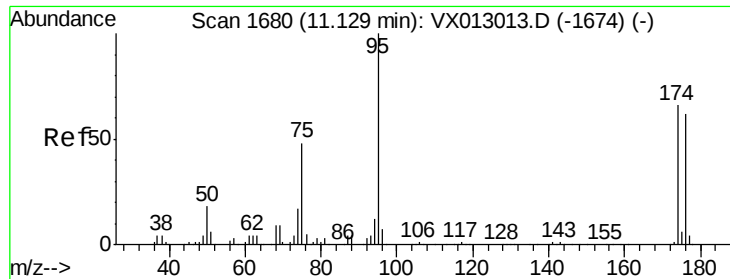
Tgt Ion: 92 Resp: 11600

Ion Ratio Lower Upper

92 100

91 168.8 135.9 203.9





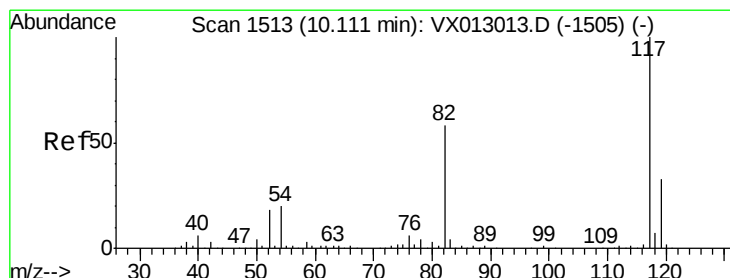
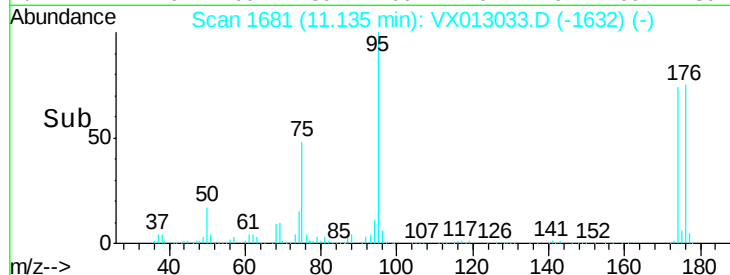
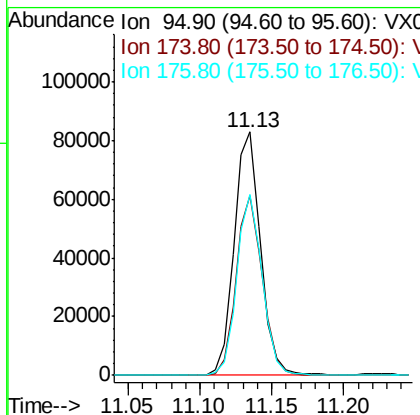
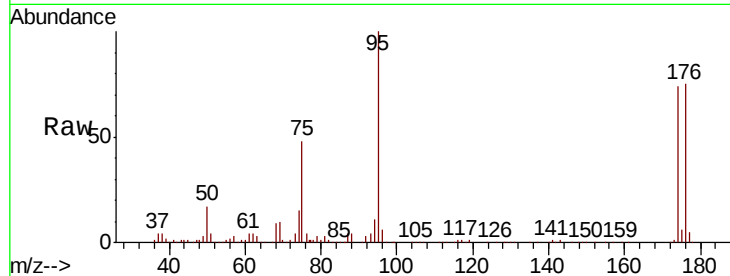
#62
4-Bromofluorobenzene
Concen: 45.153 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Instrument :
MSVOA_X
ClientSampleId :
391009760.2-VOA

Tot Ion	Ratio	Resp	Lower	Upper
95	100	105977		
174	73.0	0.0	143.4	
176	71.7	0.0	136.0	

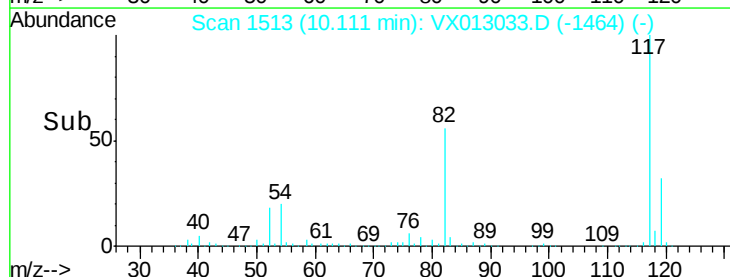
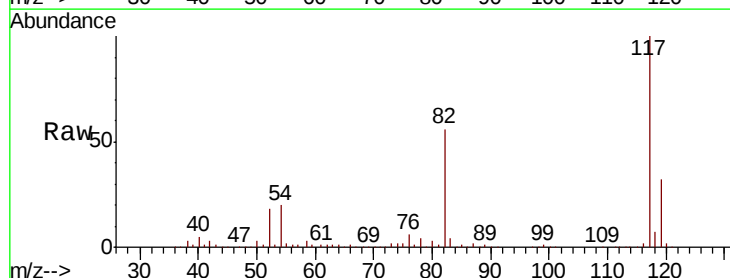
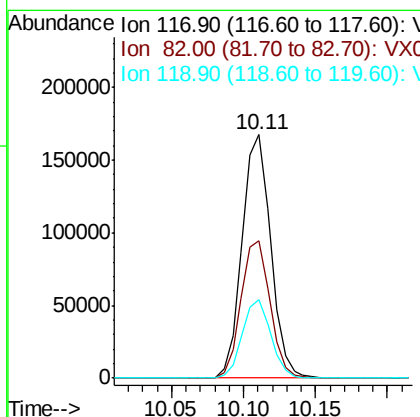
Manual Integrations
APPROVED

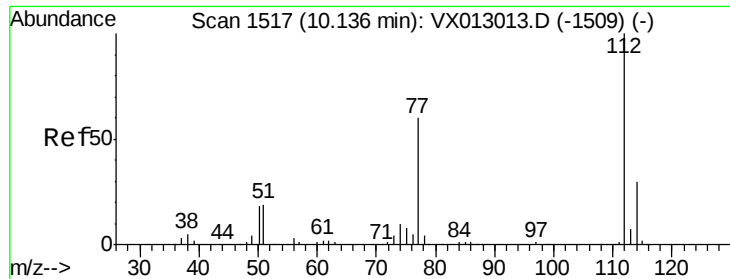
MMDadoda
10/16/2019 1:35:43 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	230918		
82	56.2	44.1	66.1	
119	32.0	25.8	38.8	





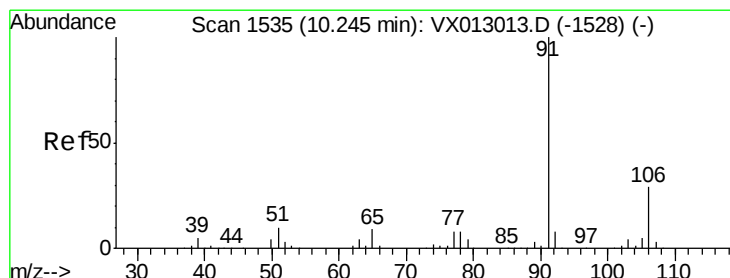
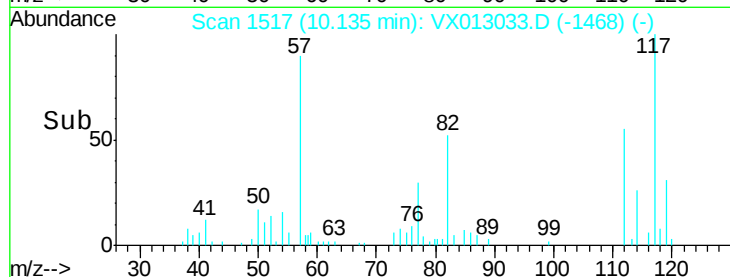
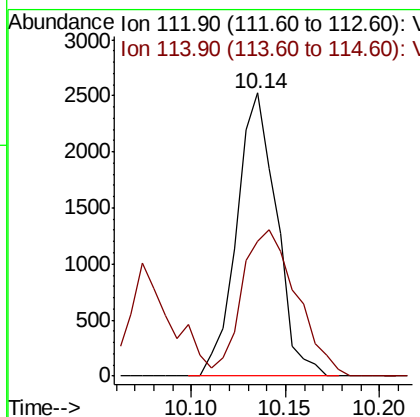
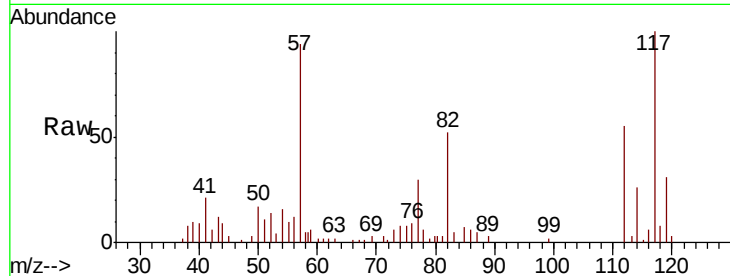
#65
Chlorobenzene
Concen: 0.808 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Instrument :
MSVOA_X
ClientSampleId :
391009760.2-VOA

Tot Ion: 112 Resp: 3705
Ion Ratio Lower Upper
112 100
114 45.4 25.7 38.5#

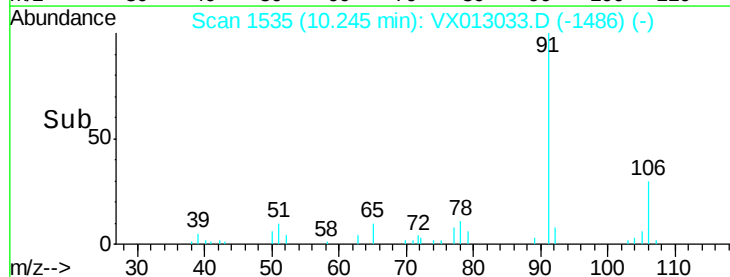
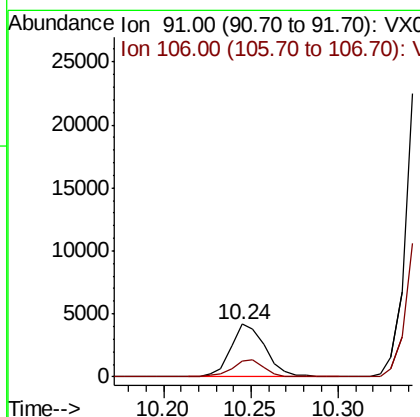
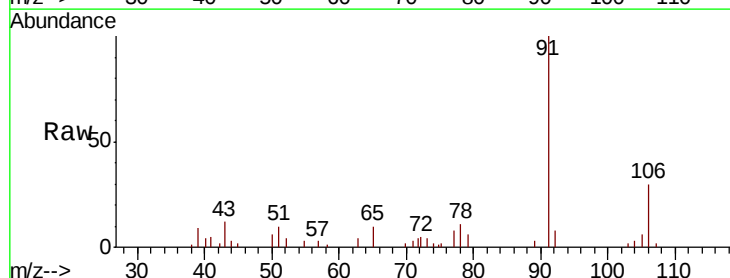
Manual Integrations
APPROVED

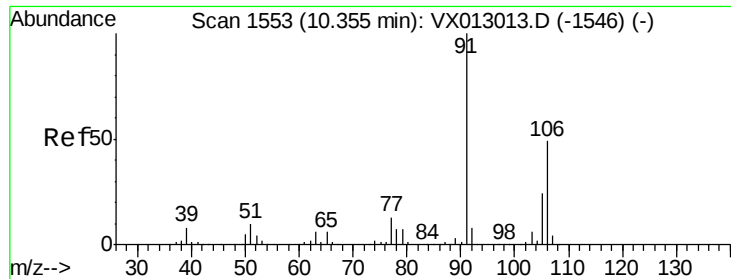
MMDadoda
10/16/2019 1:35:43 PM



#67
Ethyl Benzene
Concen: 0.704 ug/l
RT: 10.24 min Scan# 1535
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Tgt Ion: 91 Resp: 5732
Ion Ratio Lower Upper
91 100
106 29.7 23.9 35.9





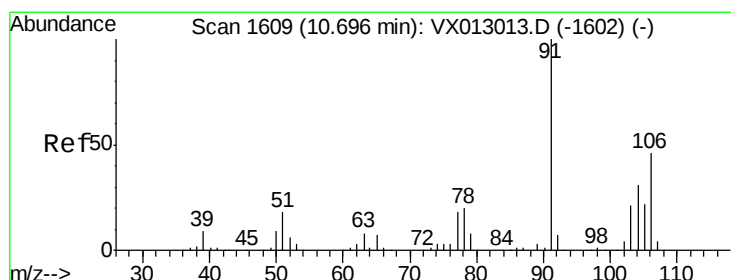
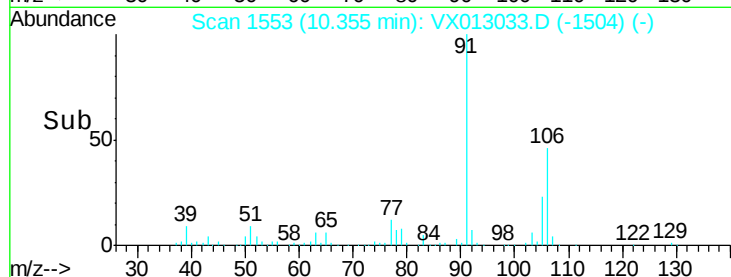
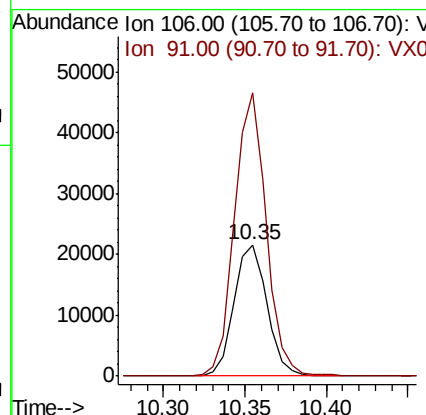
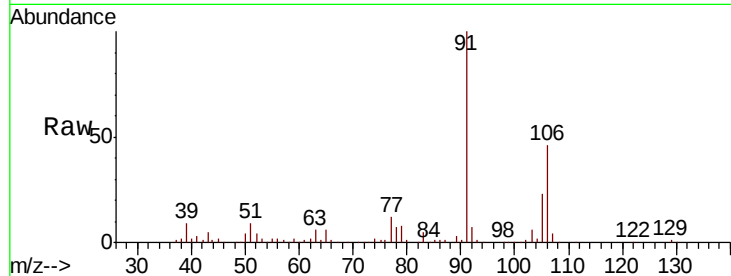
#68
m/p-Xvlenes
Concen: 9.924 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Instrument :
MSVOA_X
ClientSampleId :
391009760.2-VOA

Tot Ion:106 Resp: 30200
Ion Ratio Lower Upper
106 100
91 208.5 165.3 247.9

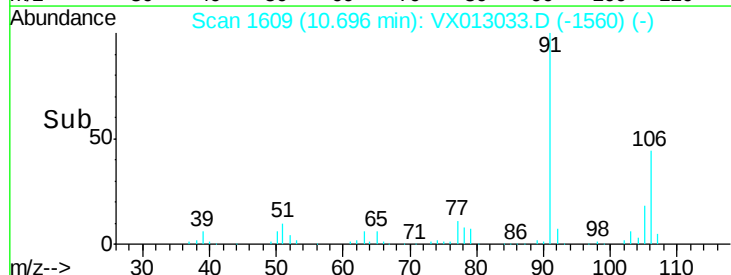
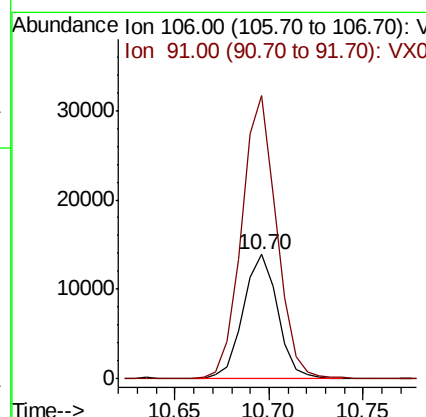
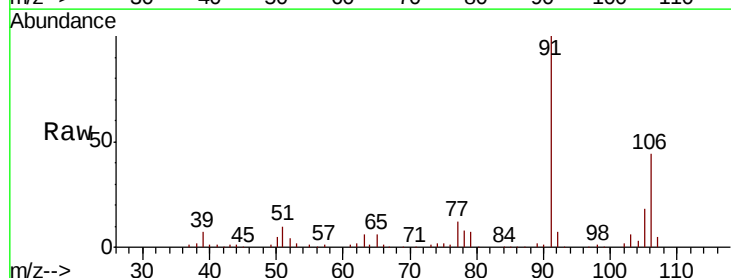
Manual Integrations
APPROVED

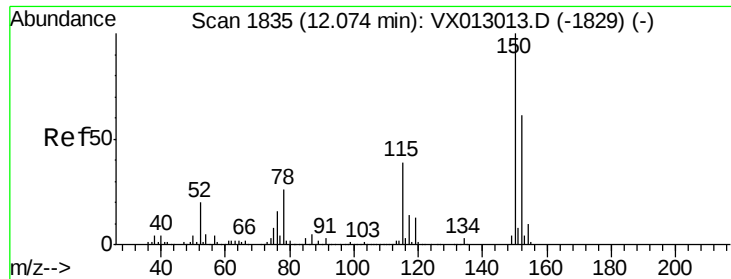
MMDadoda
10/16/2019 1:35:43 PM



#69
o-Xylene
Concen: 5.947 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Tgt Ion:106 Resp: 17647
Ion Ratio Lower Upper
106 100
91 230.4 109.1 327.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

Instrument :

MSVOA_X

ClientSampleId :

391009760.2-VOA

Tot Ion:152 Resp: 89038

Ion Ratio Lower Upper

152 100

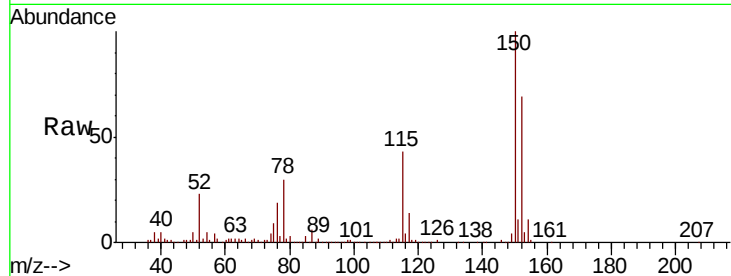
115 64.4 44.5 133.5

150 157.7 0.0 353.4

Manual Integrations
APPROVED

MMDadoda

10/16/2019 1:35:43 PM

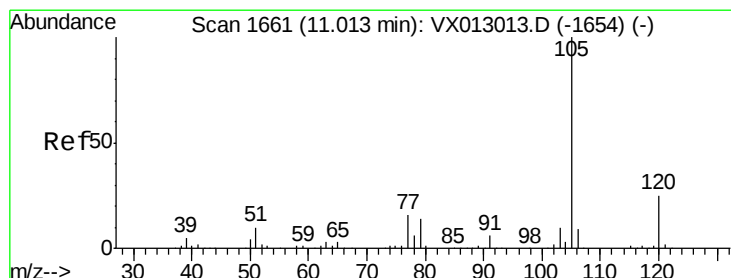
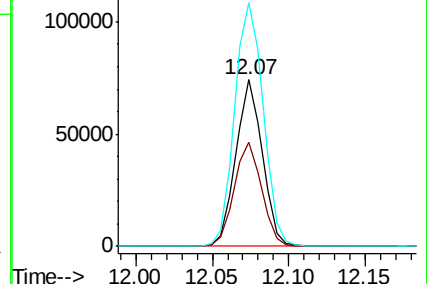
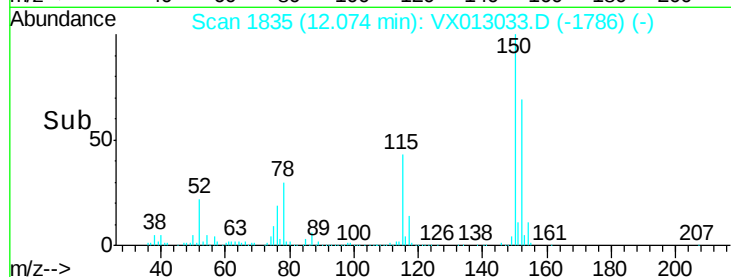


Abundance

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: 1.132 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013033.D

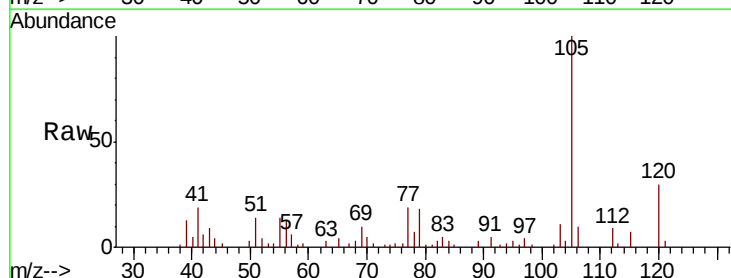
Acq: 11 Oct 2019 21:46

Tgt Ion:105 Resp: 7409

Ion Ratio Lower Upper

105 100

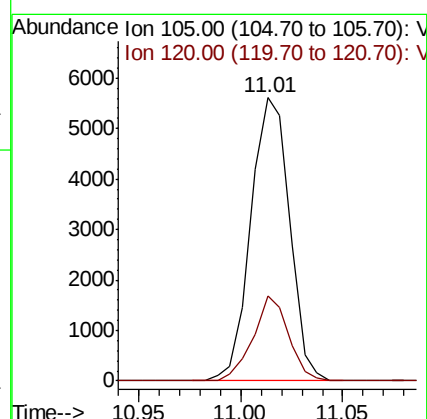
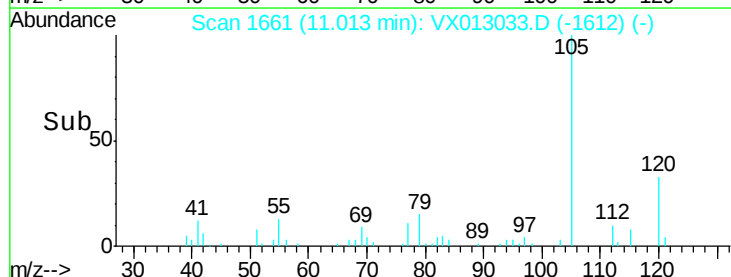
120 27.7 13.0 39.0

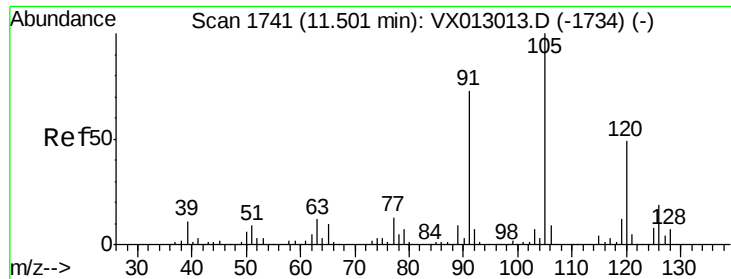


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





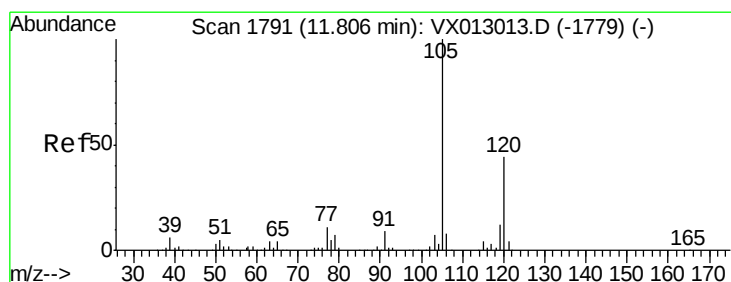
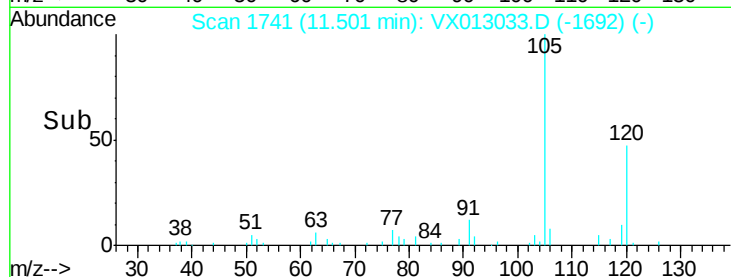
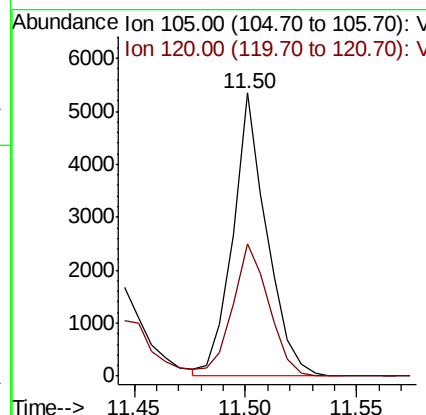
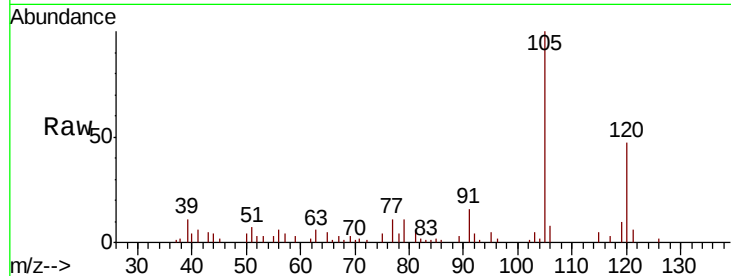
#80
 1,3,5-Trimethylbenzene
 Concen: 1.037 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VX013033.D
 Acq: 11 Oct 2019 21:46

Instrument :
 MSVOA_X
 ClientSampleId :
 391009760.2-VOA

Tot Ion:105 Resp: 5668
 Ion Ratio Lower Upper
 105 100
 120 50.2 24.8 74.3

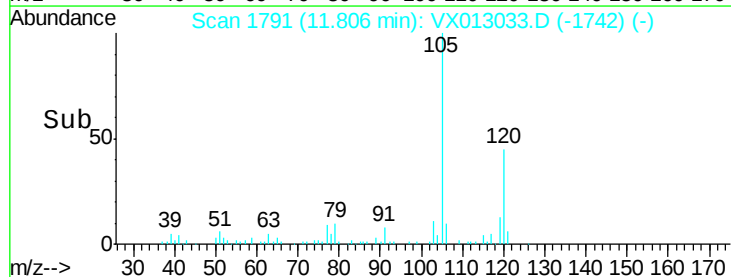
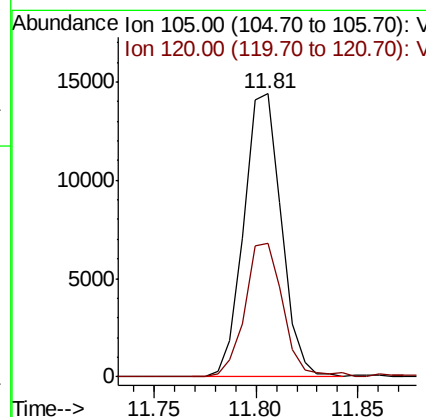
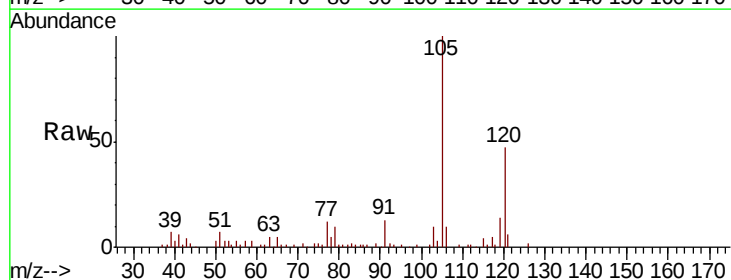
Manual Integrations
 APPROVED

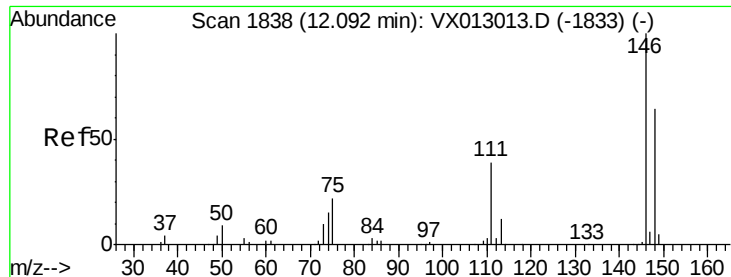
MMDadoda
 10/16/2019 1:35:43 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 3.329 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX013033.D
 Acq: 11 Oct 2019 21:46

Tgt Ion:105 Resp: 18429
 Ion Ratio Lower Upper
 105 100
 120 48.0 21.8 65.3





#88

1,4-Dichlorobenzene

Concen: 4.287 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

Instrument :

MSVOA_X

ClientSampleId :

391009760.2-VOA

Tot Ion:146 Resp: 12438

Ion Ratio Lower Upper

146 100

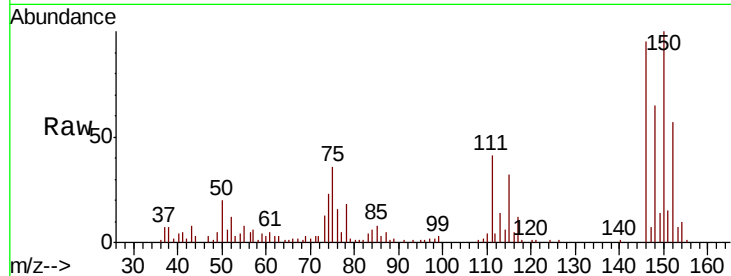
111 56.4 21.4 64.3

148 72.3 32.1 96.5

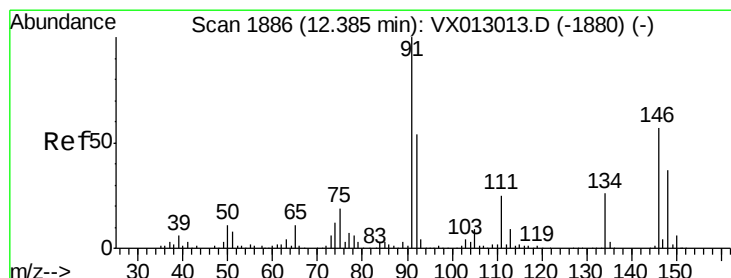
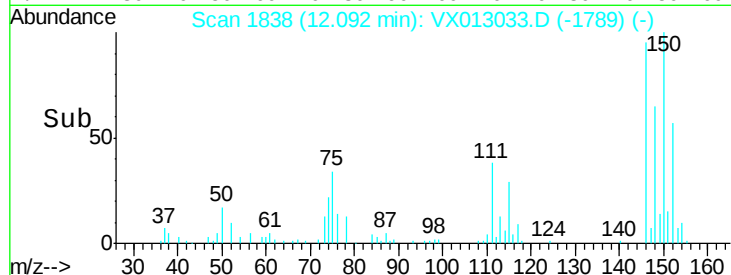
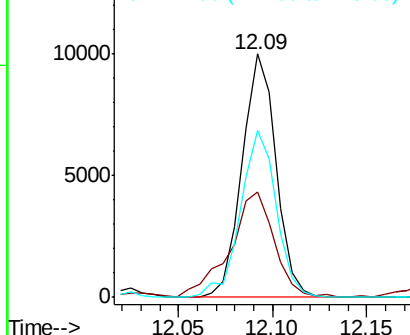
Manual Integrations
APPROVED

MMDadoda

10/16/2019 1:35:43 PM



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.471 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013033.D

Acq: 11 Oct 2019 21:46

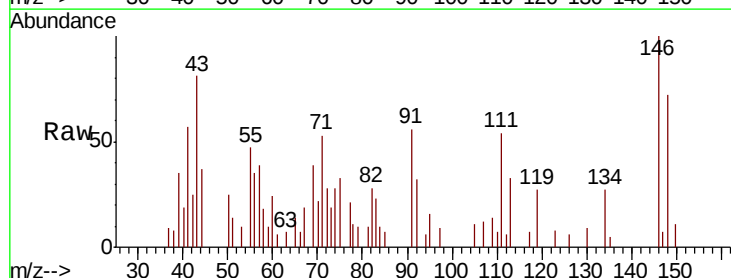
Tgt Ion:146 Resp: 1322

Ion Ratio Lower Upper

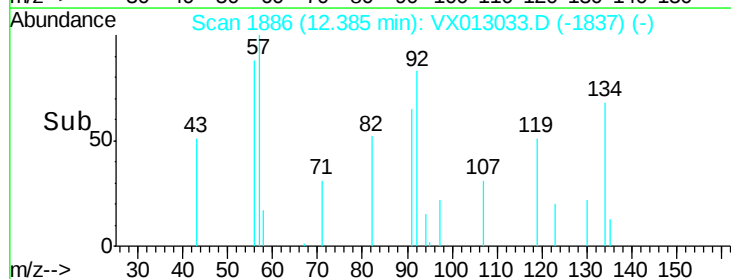
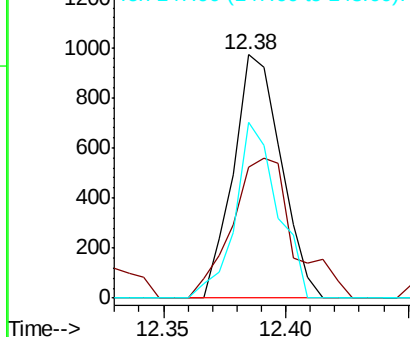
146 100

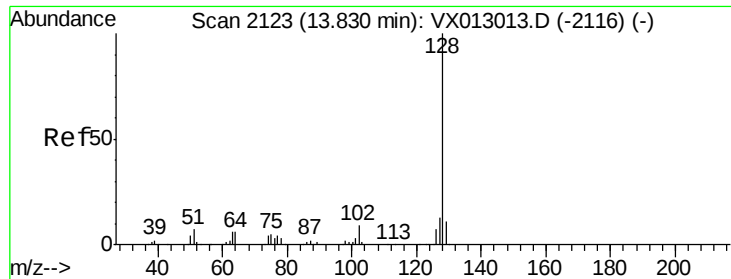
111 74.2 22.7 68.0#

148 64.0 31.6 94.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#95
Naphthalene
Concen: 1.594 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013033.D
Acq: 11 Oct 2019 21:46

Instrument :
MSVOA_X
ClientSampleId :
391009760.2-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.2	15.4
129	11.5	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 1:35:43 PM

