

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX061920\
 Data File : VX016914.D
 Acq On : 20 Jun 2020 07:24
 Operator : JC/SP
 Sample : L3066-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FD_061820

Manual Integrations
 APPROVED

MMDadoda
 6/22/2020 12:21:48 PM

Quant Time: Jul 03 06:27:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 19 12:07:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	323153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	519139	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	528177	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	280495	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	189411	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
35) Dibromofluoromethane	5.47	113	160400	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	8.70	98	643014	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
62) 4-Bromofluorobenzene	11.12	95	281900	55.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.76%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.31	50	1511	0.376	ug/l	94
11) Tert butyl alcohol	3.01	59	30753	46.807	ug/l	100
16) Acetone	2.42	43	10686	7.574	ug/l	97
17) Carbon Disulfide	2.56	76	2551	0.286	ug/l	98
25) 2-Butanone	4.64	43	4940	2.544	ug/l #	87
27) cis-1,2-Dichloroethene	4.57	96	55016	15.016	ug/l	91
31) Cyclohexane	5.56	56	3996	0.831	ug/l	92
39) Methylcyclohexane	7.44	83	21535	3.864	ug/l	92
44) Trichloroethene	7.19	130	1946	0.442	ug/l	94
64) Tetrachloroethene	9.32	164	4140	0.846	ug/l	99
67) Ethyl Benzene	10.24	91	2130703	118.072	ug/l	100
68) m/p-Xylenes	10.34	106	338140	48.153	ug/l	99
69) o-Xylene	10.68	106	58762	9.050	ug/l	98
73) Isopropylbenzene	11.01	105	2272872	125.853	ug/l	100
78) n-propylbenzene	11.35	91	4113349	204.085	ug/l	100
80) 1,3,5-Trimethylbenzene	11.49	105	763375	48.991	ug/l	99
83) tert-Butylbenzene	11.76	119	278993	18.096	ug/l	98
84) 1,2,4-Trimethylbenzene	11.79	105	14371755	895.375	ug/l	76
85) sec-Butylbenzene	11.93	105	1164485	65.035	ug/l	79
86) p-Isopropyltoluene	12.05	119	453942	27.670	ug/l	99
88) 1,4-Dichlorobenzene	12.08	146	6072m	0.667	ug/l	
89) n-Butylbenzene	12.37	91	389239m	27.668	ug/l	
95) Naphthalene	13.82	128	1432981	83.675	ug/l	99

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

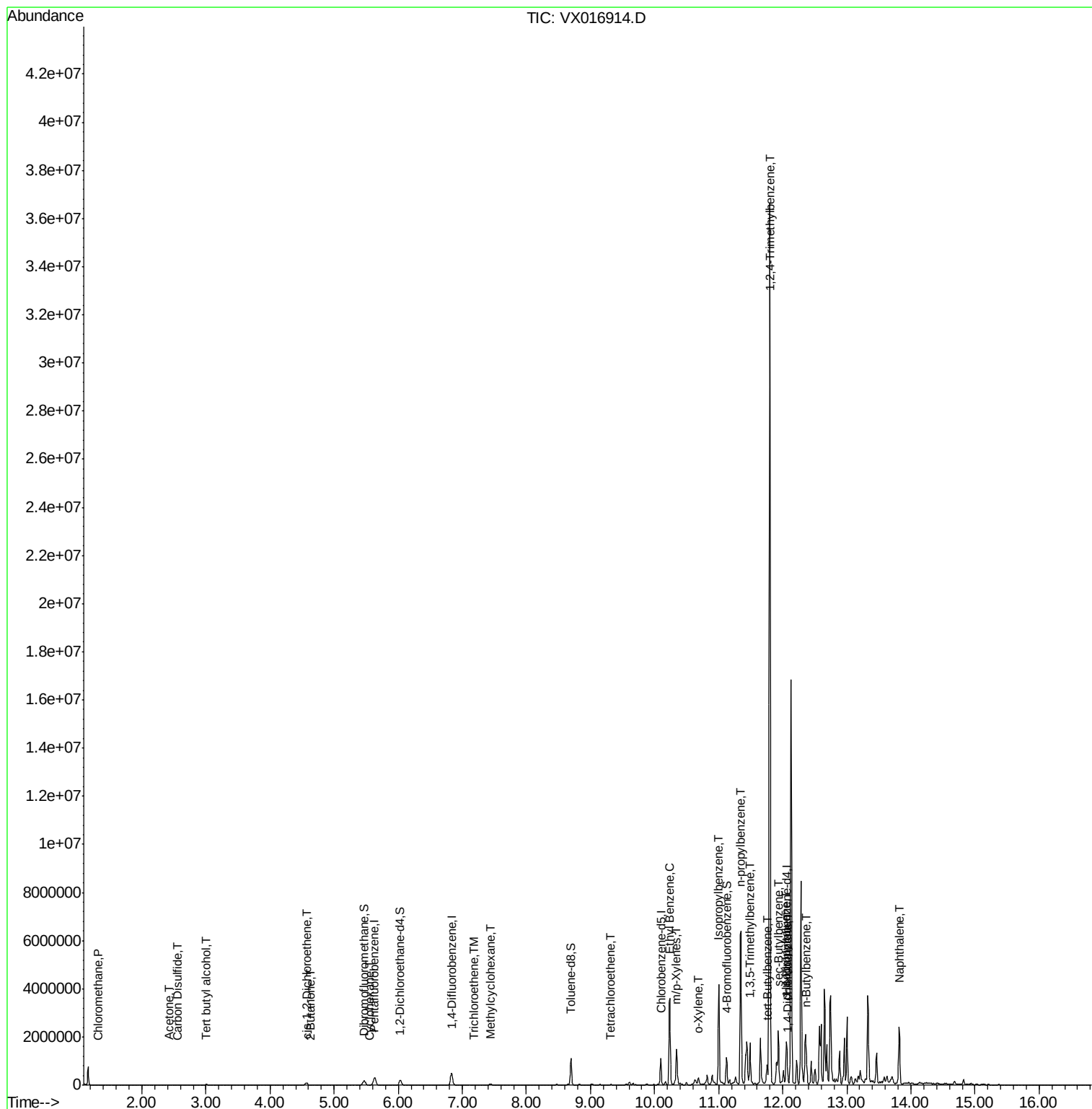
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061920\
Data File : VX016914.D
Acq On : 20 Jun 2020 07:24
Operator : JC/SP
Sample : L3066-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 47 Sample Multiplier: 1

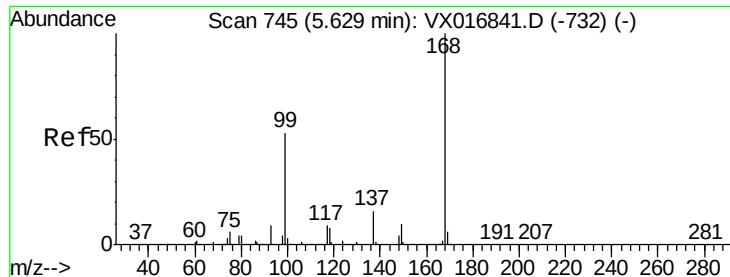
Instrument :
MSVOA_X
ClientSampleId :
FD_061820

Manual Integrations
APPROVED

MMDadoda
6/22/2020 12:21:48 PM

Quant Time: Jul 03 06:27:25 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 19 12:07:48 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Instrument :

MSVOA_X

ClientSampled :

FD_061820

Tgt Ion: 168 Resp: 323153

Ion Ratio Lower Upper

168 100

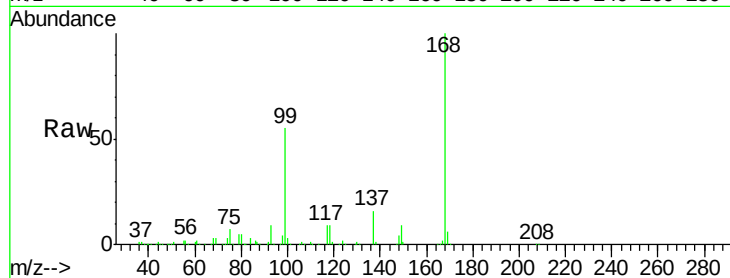
99 54.5 42.2 63.2

Manual Integrations

APPROVED

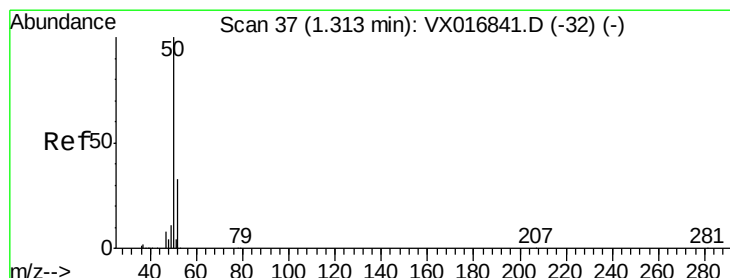
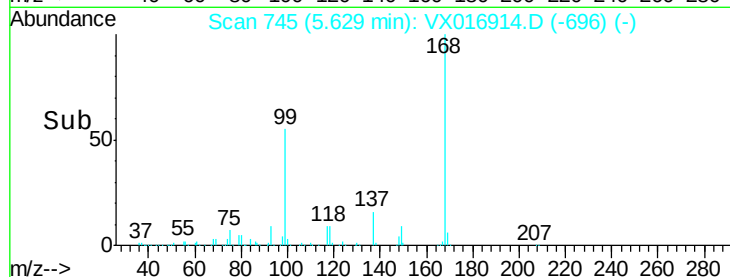
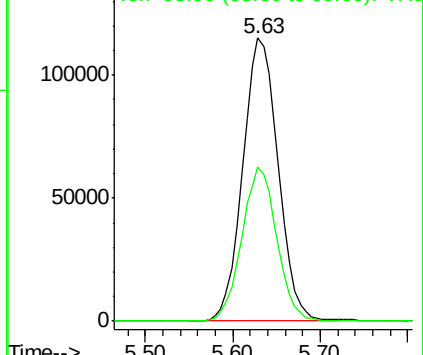
MMDadoda

6/22/2020 12:21:48 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.376 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016914.D

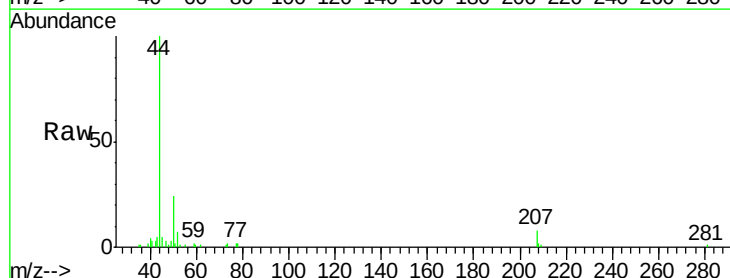
Acq: 20 Jun 2020 07:24

Tgt Ion: 50 Resp: 1511

Ion Ratio Lower Upper

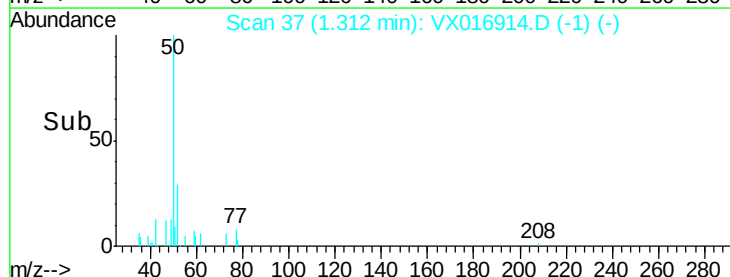
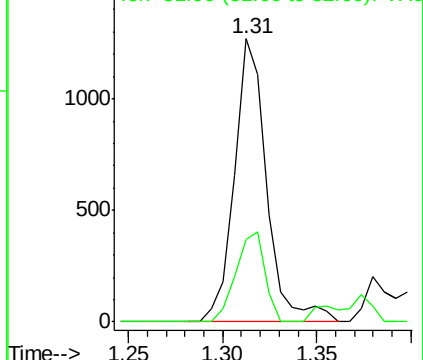
50 100

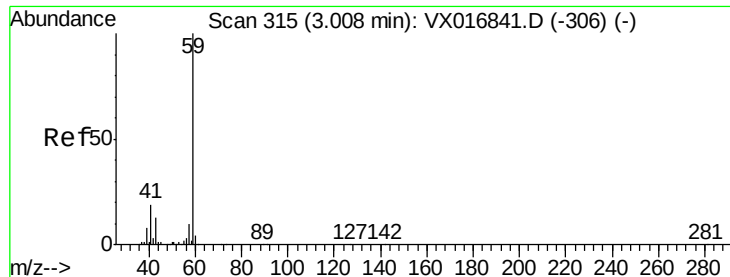
52 29.1 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





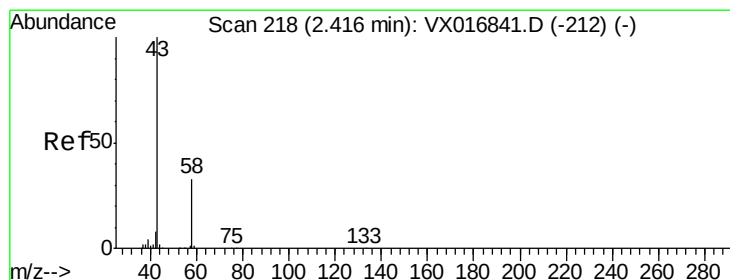
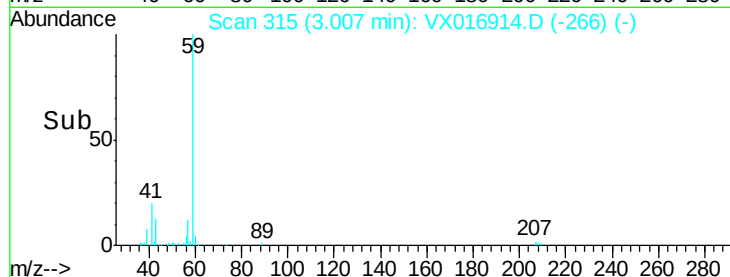
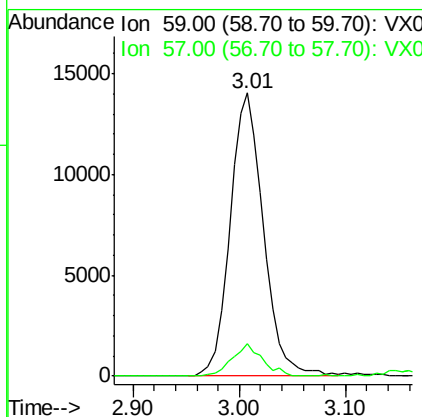
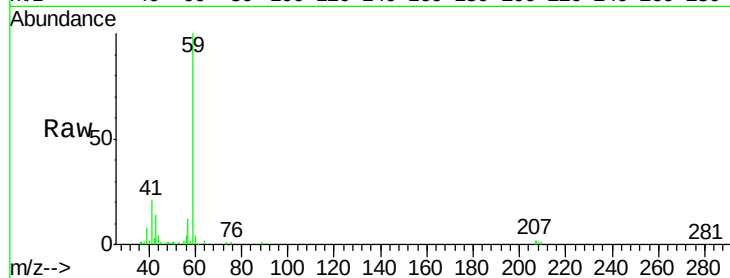
#11
Tert butyl alcohol
Concen: 46.807 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.00 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Instrument :
MSVOA_X
ClientSampleId :
FD_061820

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.4	12.6

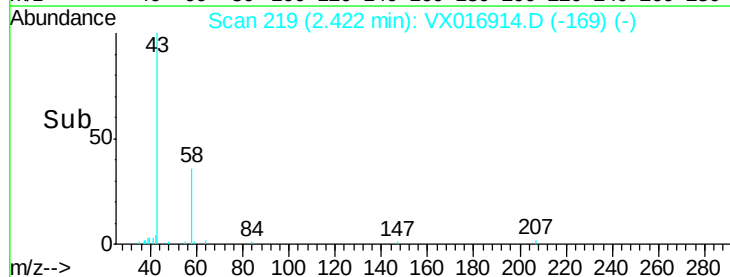
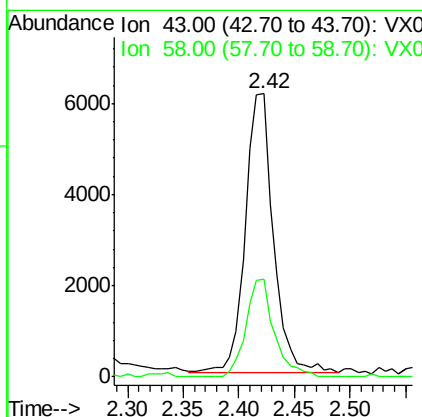
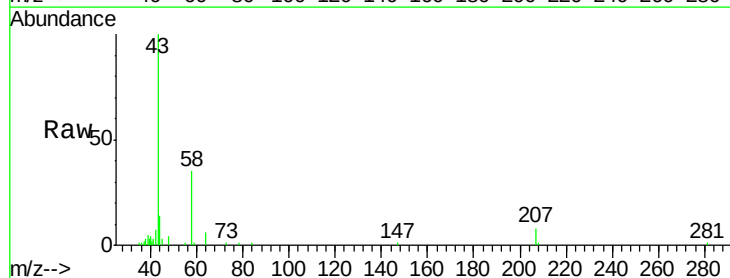
Manual Integrations
APPROVED

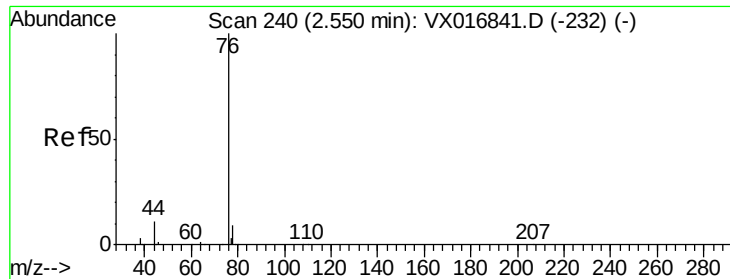
MMDadoda
6/22/2020 12:21:48 PM



#16
Acetone
Concen: 7.574 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.01 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.2	26.6	39.8





#17

Carbon Disulfide

Concen: 0.286 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Instrument :

MSVOA_X

ClientSampled :

FD_061820

Tgt Ion: 76 Resp: 2551

Ion Ratio Lower Upper

76 100

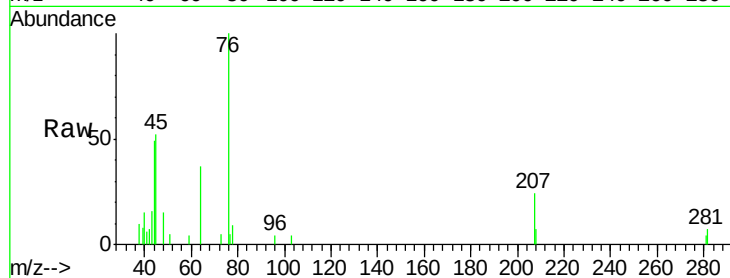
78 8.8 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

6/22/2020 12:21:48 PM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

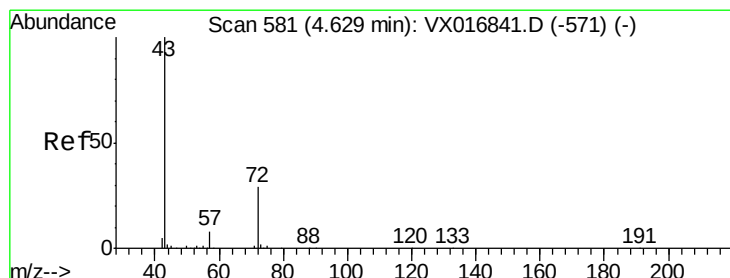
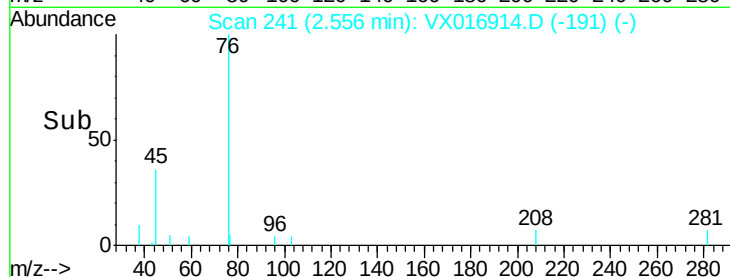
1500

1000

500

0

Time-->



#25

2-Butanone

Concen: 2.544 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016914.D

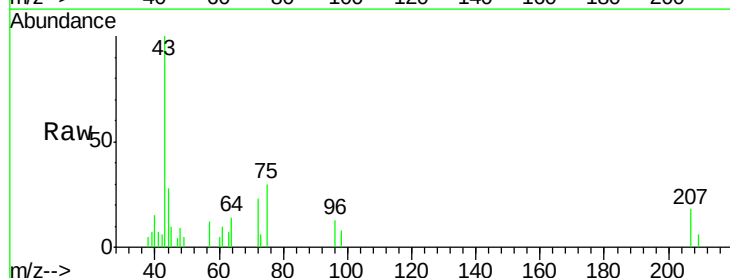
Acq: 20 Jun 2020 07:24

Tgt Ion: 43 Resp: 4940

Ion Ratio Lower Upper

43 100

72 22.6 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.64

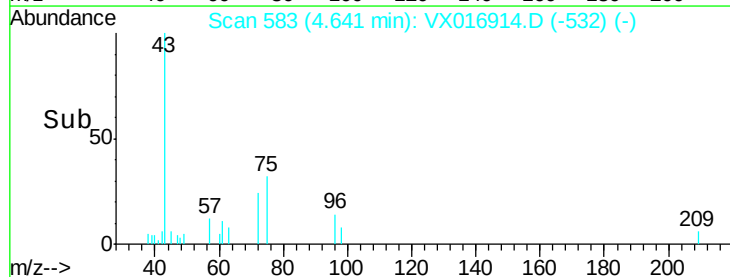
1500

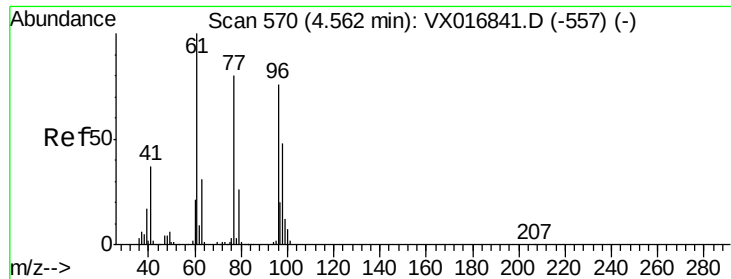
1000

500

0

Time-->





#27

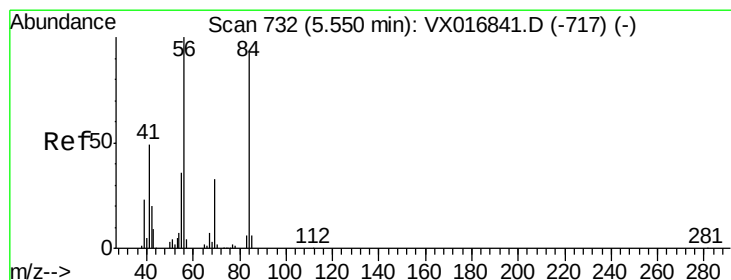
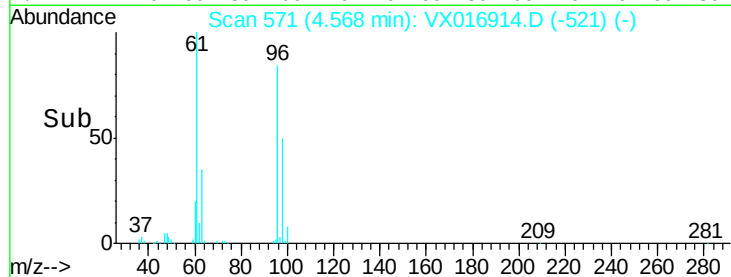
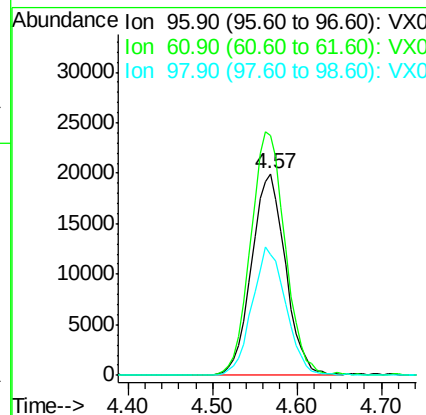
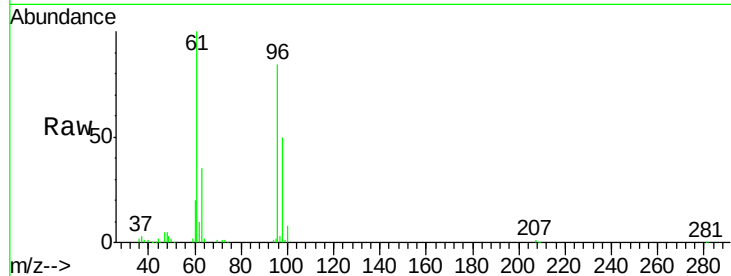
cis-1,2-Dichloroethene
 Concen: 15.016 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

Instrument :
 MSVOA_X
 ClientSampled :
 FD_061820

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	55016		
61	122.2	0.0	273.8	
98	63.4	0.0	129.0	

Manual Integrations
 APPROVED

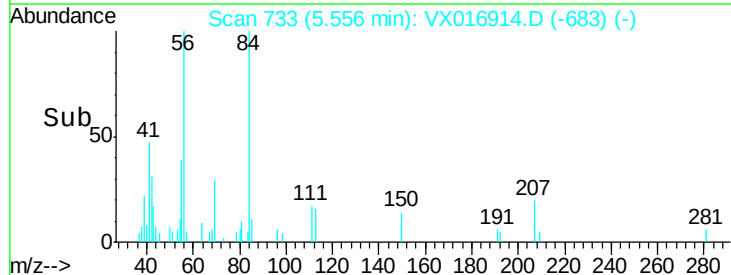
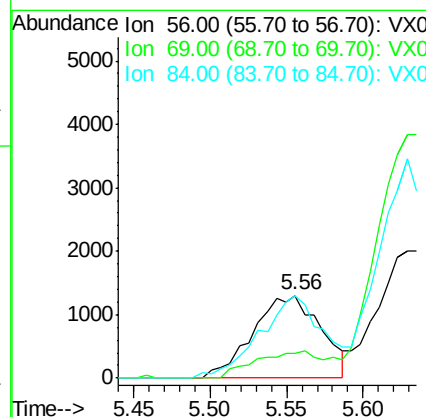
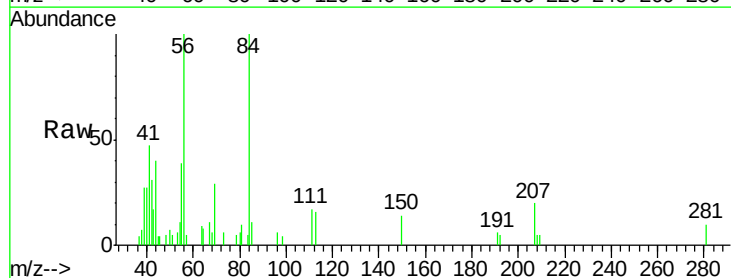
MMDadoda
 6/22/2020 12:21:48 PM

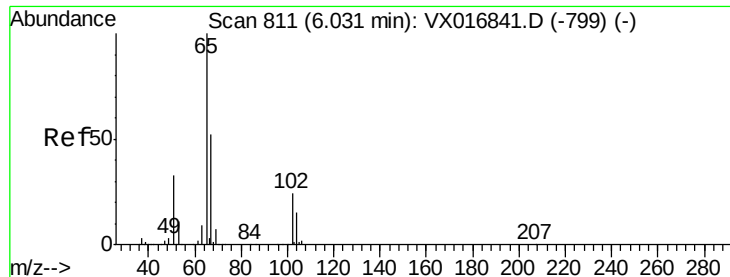


#31

Cyclohexane
 Concen: 0.831 ug/l
 RT: 5.56 min Scan# 733
 Delta R.T. 0.01 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

Tgt Ion	Ratio	Resp	Lower	Upper
56	100	3996		
69	29.3	26.1	39.1	
84	99.8	73.0	109.6	





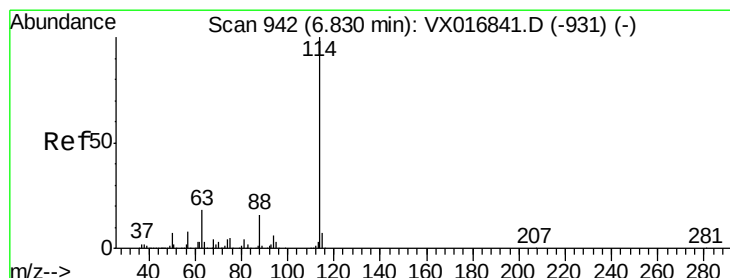
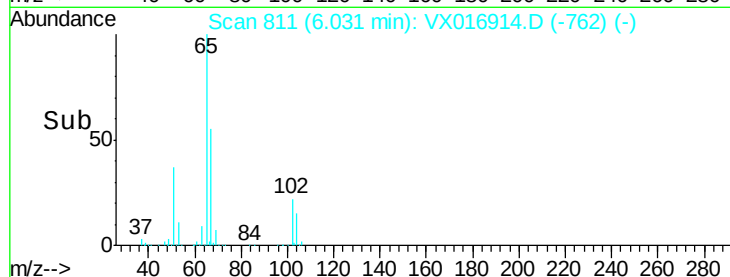
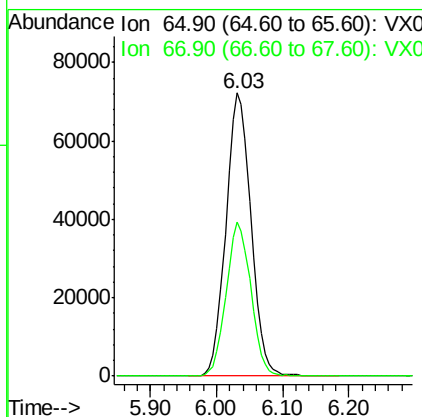
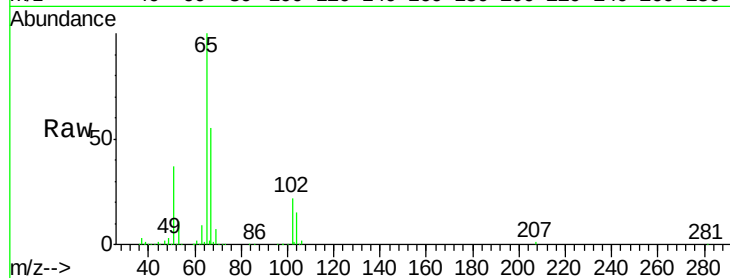
#33
 1,2-Dichloroethane-d4
 Concen: 48.736 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

Instrument :
 MSVOA_X
 ClientSampleId :
 FD_061820

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	189411		
67	53.5	0.0	102.6	

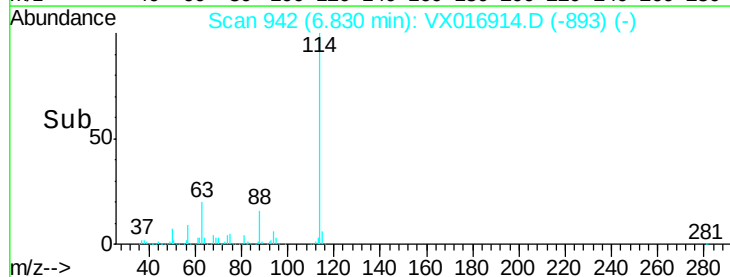
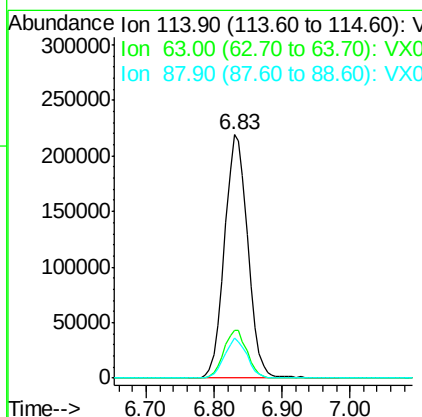
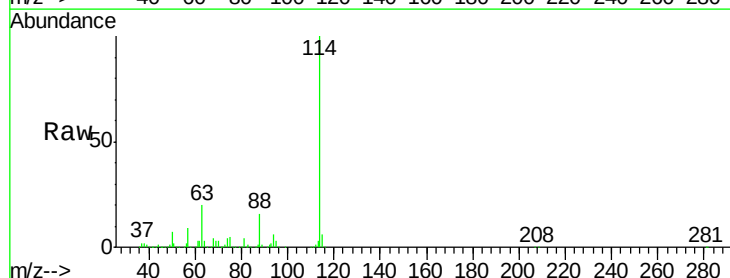
Manual Integrations
 APPROVED

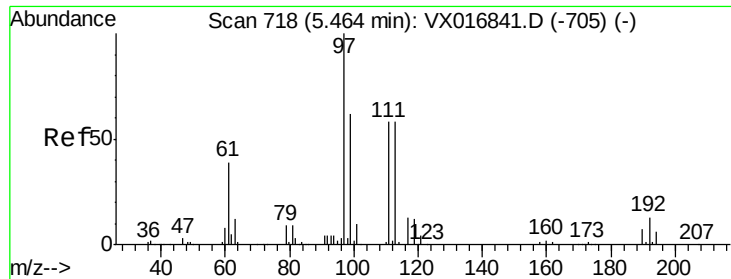
MMDadoda
 6/22/2020 12:21:48 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	519139		
63	19.7	0.0	37.0	
88	16.4	0.0	32.0	





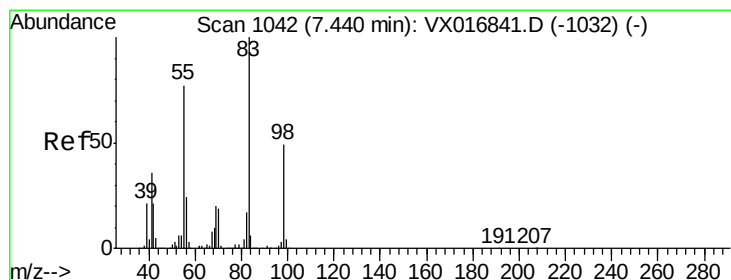
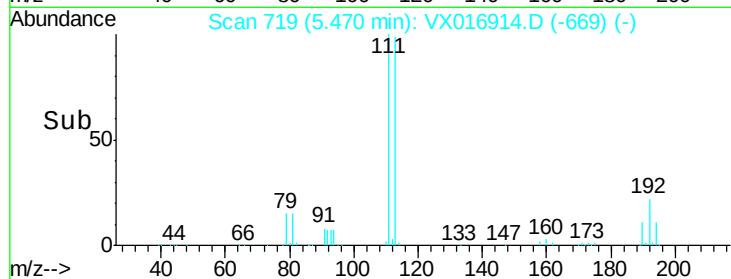
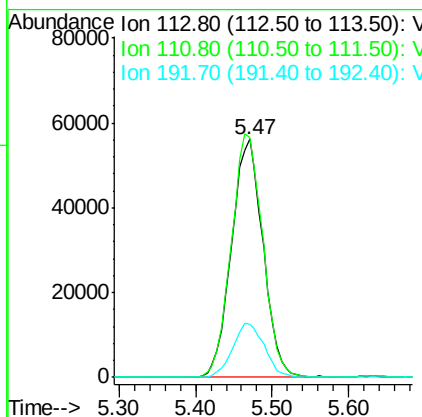
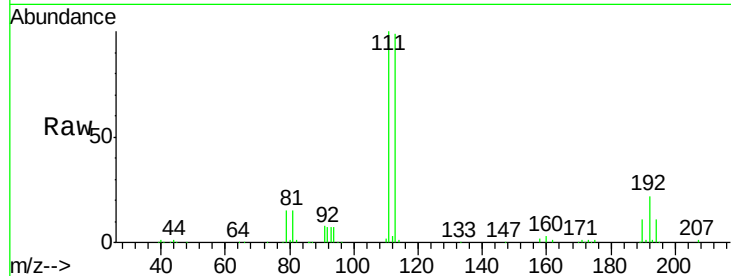
#35
Dibromofluoromethane
Concen: 48.300 ug/l
RT: 5.47 min Scan# 719
Delta R.T. 0.01 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Instrument :
MSVOA_X
ClientSampleId :
FD_061820

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	160400		
111	102.6	81.0	121.4	
192	22.7	18.5	27.7	

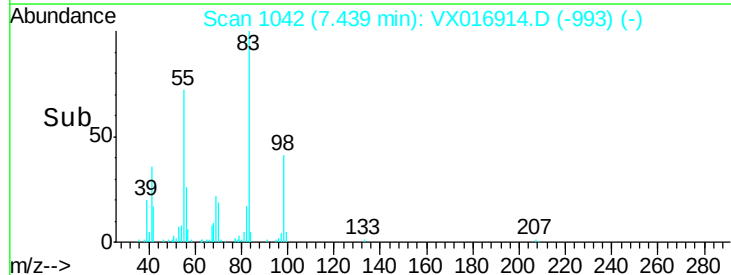
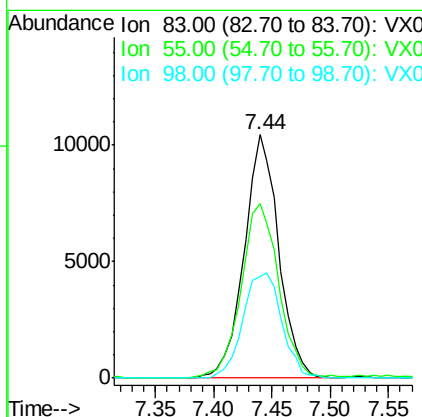
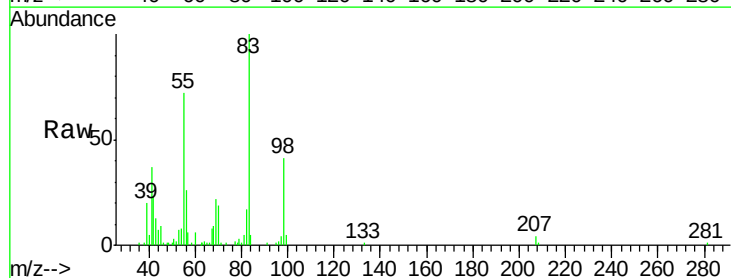
Manual Integrations
APPROVED

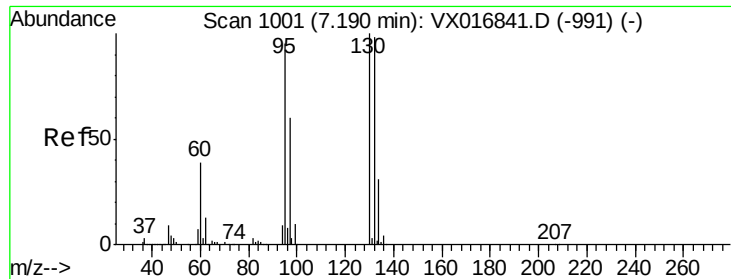
MMDadoda
6/22/2020 12:21:48 PM



#39
Methylcyclohexane
Concen: 3.864 ug/l
RT: 7.44 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	21535		
55	71.8	61.7	92.5	
98	41.5	39.0	58.6	





#44

Trichloroethene

Concen: 0.442 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Instrument :

MSVOA_X

ClientSampleId :

FD_061820

Tgt Ion:130 Resp: 1946

Ion Ratio Lower Upper

130 100

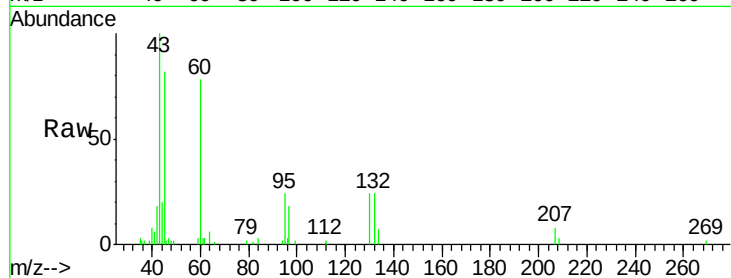
95 101.2 0.0 190.8

Manual Integrations

APPROVED

MMDadoda

6/22/2020 12:21:48 PM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

1000

800

600

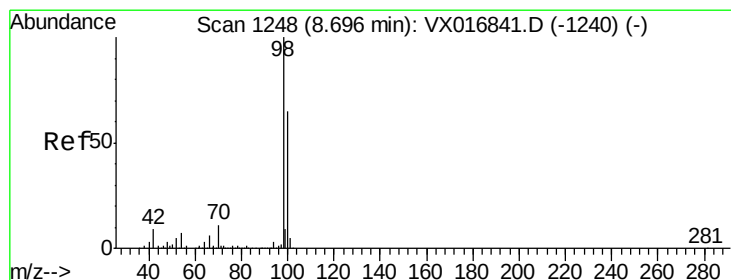
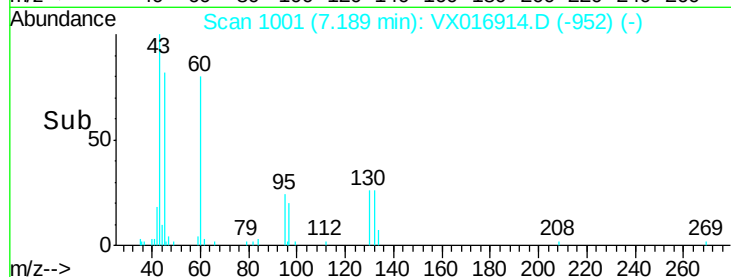
400

200

0

7.15 7.20 7.25

Time-->



#50

Toluene-d8

Concen: 48.396 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016914.D

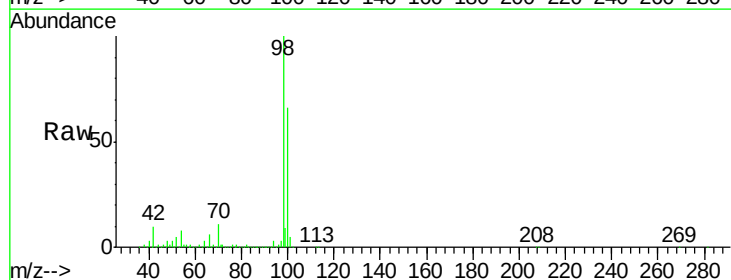
Acq: 20 Jun 2020 07:24

Tgt Ion: 98 Resp: 643014

Ion Ratio Lower Upper

98 100

100 67.0 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

500000

400000

300000

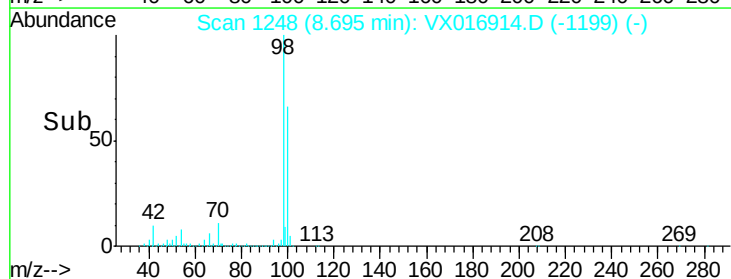
200000

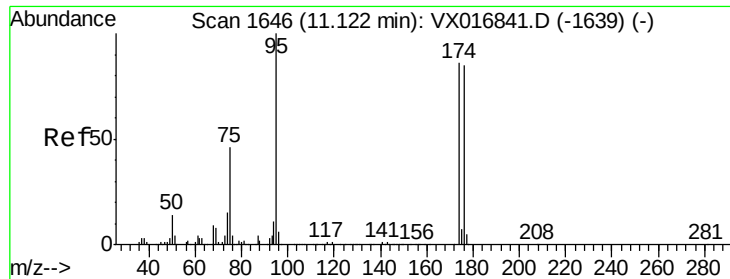
100000

0

8.60 8.70 8.80

Time-->





#62

4-Bromofluorobenzene

Concen: 55.376 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Instrument :

MSVOA_X

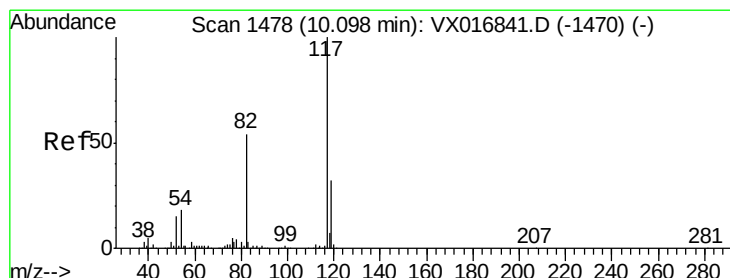
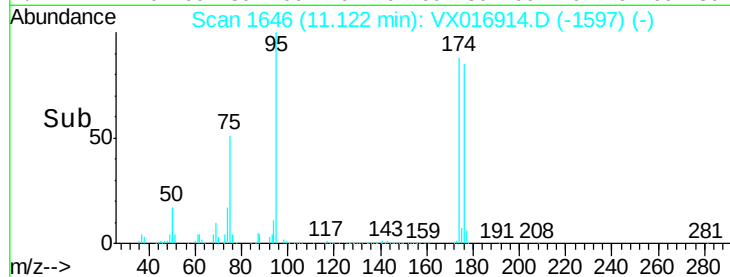
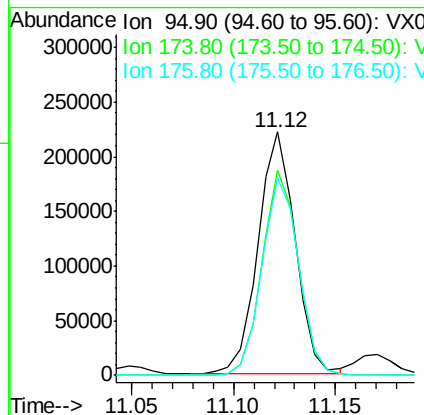
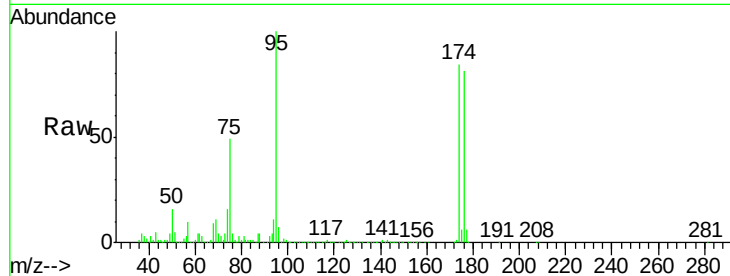
ClientSampleId :

FD_061820

Tgt Ion:	95	Resp:	281900
Ion Ratio	Lower	Upper	
95	100		
174	82.1	0.0	174.2
176	80.7	0.0	170.0

Manual Integrations
APPROVED

MMDadoda
6/22/2020 12:21:48 PM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

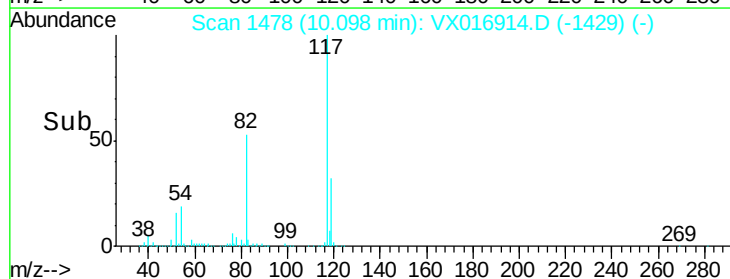
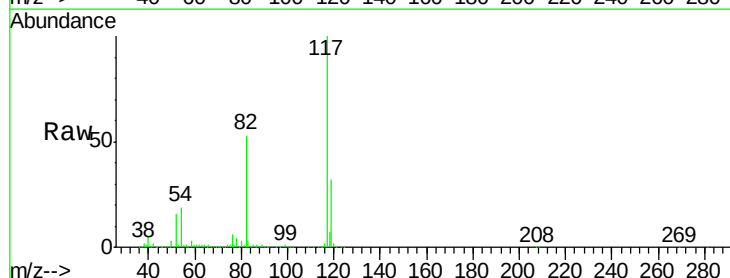
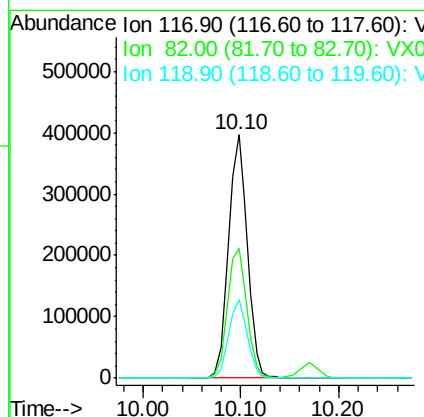
RT: 10.10 min Scan# 1478

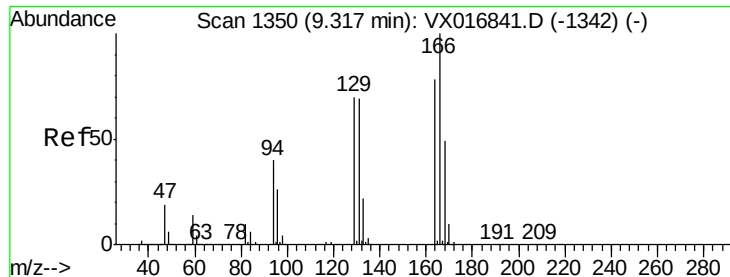
Delta R.T. -0.00 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Tgt Ion:	117	Resp:	528177
Ion Ratio	Lower	Upper	
117	100		
82	53.1	43.4	65.0
119	32.1	25.7	38.5





#64

Tetrachloroethene

Concen: 0.846 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Instrument :

MSVOA_X

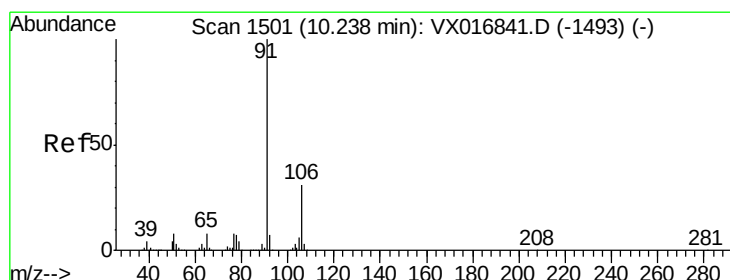
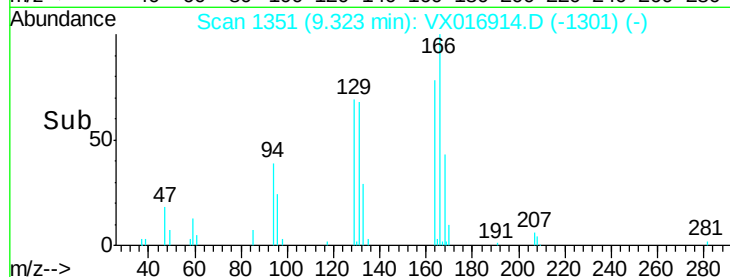
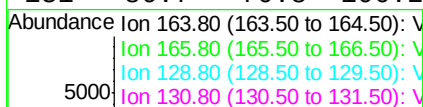
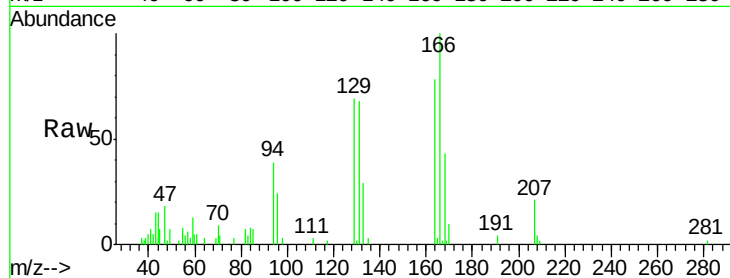
ClientSampled :

FD_061820

Tgt Ion:	164	Resp:	4140
Ion	Ratio	Lower	Upper
164	100		
166	128.3	102.6	153.8
129	88.7	72.2	108.2
131	86.7	70.8	106.2

Manual Integrations
APPROVED

MMDadoda
6/22/2020 12:21:48 PM



#67

Ethyl Benzene

Concen: 118.072 ug/l

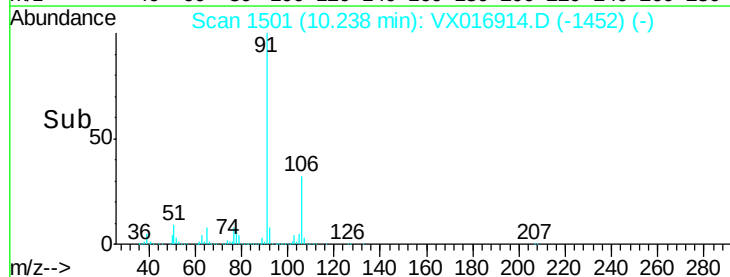
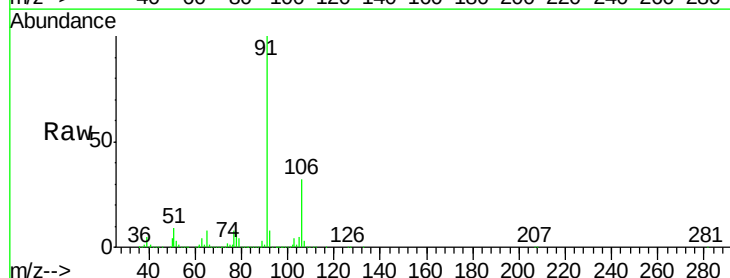
RT: 10.24 min Scan# 1501

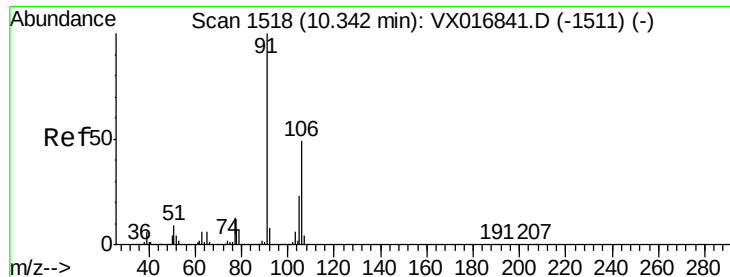
Delta R.T. -0.00 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Tgt Ion:	91	Resp:	2130703
Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.1	37.7





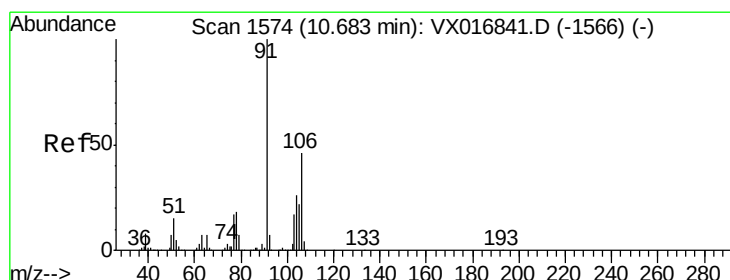
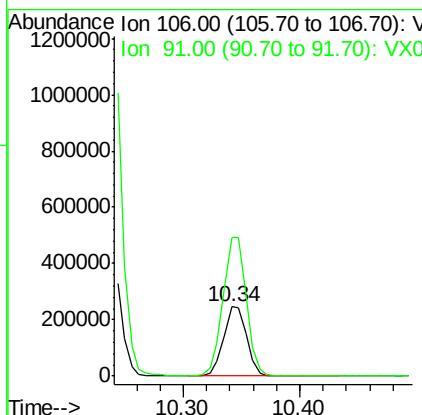
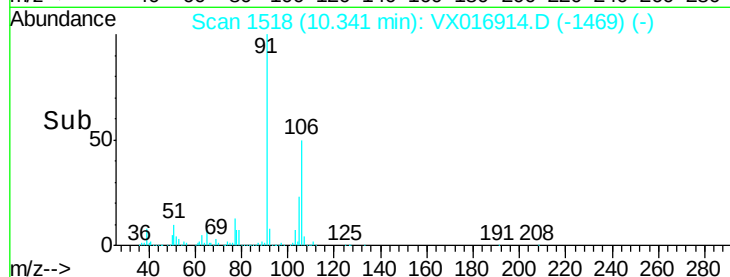
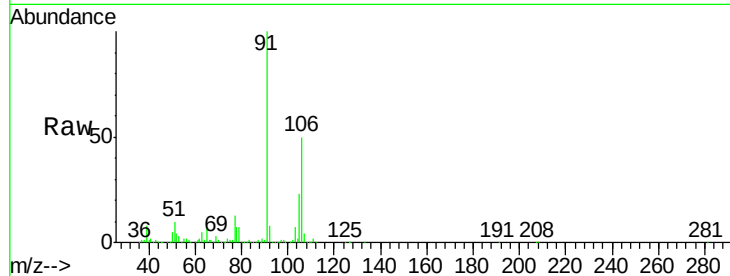
#68
m/p-Xylenes
Concen: 48.153 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Instrument :
MSVOA_X
ClientSampled :
FD_061820

Tgt Ion:106 Resp: 338140
Ion Ratio Lower Upper
106 100
91 202.9 161.5 242.3

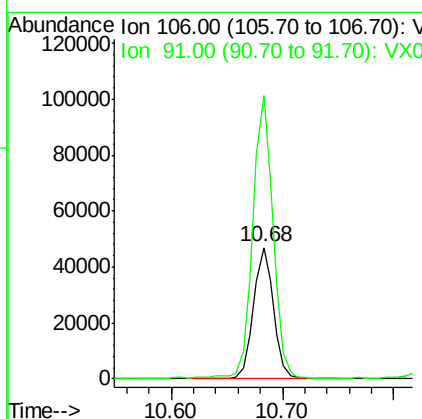
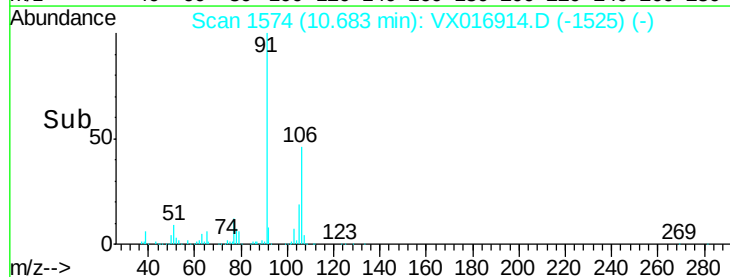
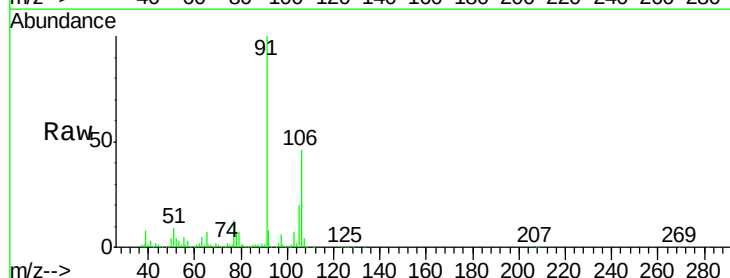
Manual Integrations
APPROVED

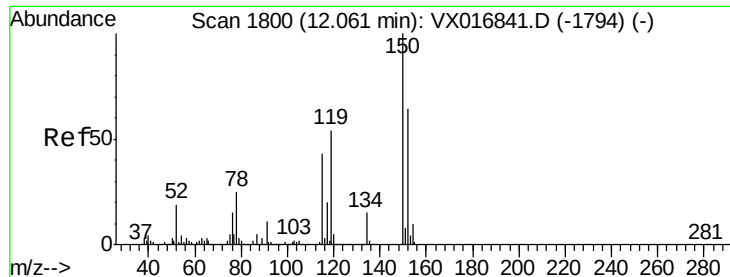
MMDadoda
6/22/2020 12:21:48 PM



#69
o-Xylene
Concen: 9.050 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Tgt Ion:106 Resp: 58762
Ion Ratio Lower Upper
106 100
91 218.7 107.9 323.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Instrument :

MSVOA_X

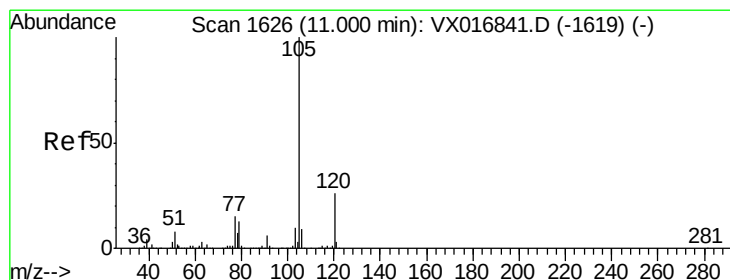
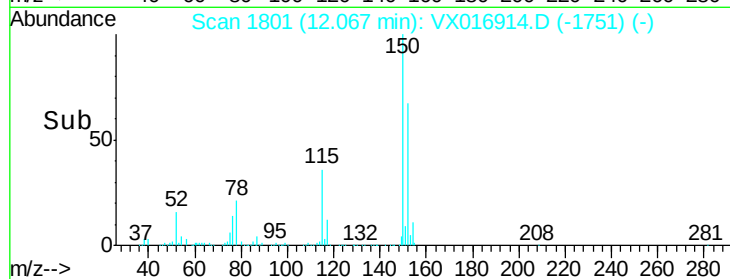
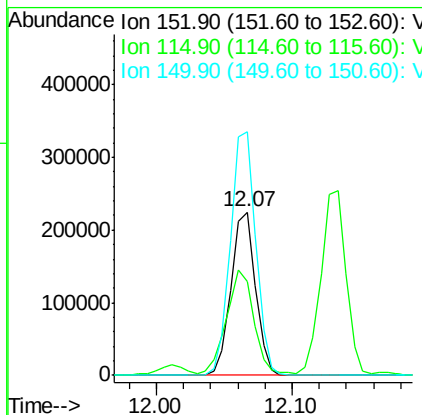
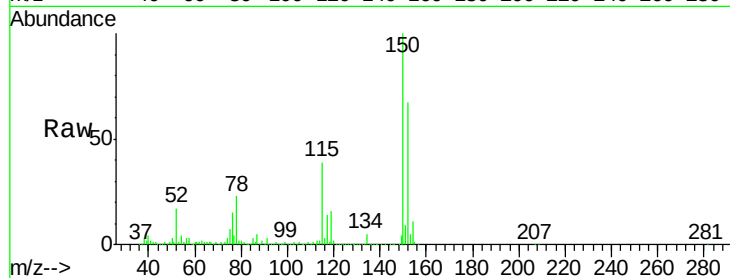
ClientSampleId :

FD_061820

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	280495		
115	70.9	40.9	122.8	
150	154.5	0.0	344.2	

Manual Integrations
APPROVED

MMDadoda
6/22/2020 12:21:48 PM



#73

Isopropylbenzene

Concen: 125.853 ug/l

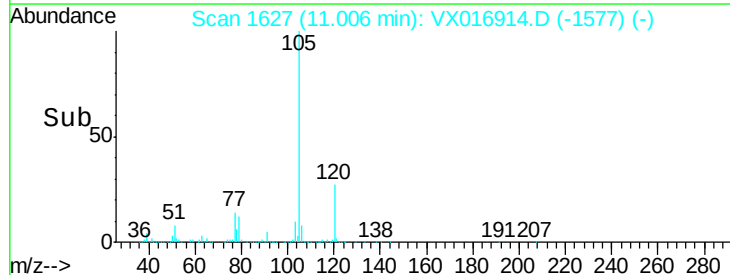
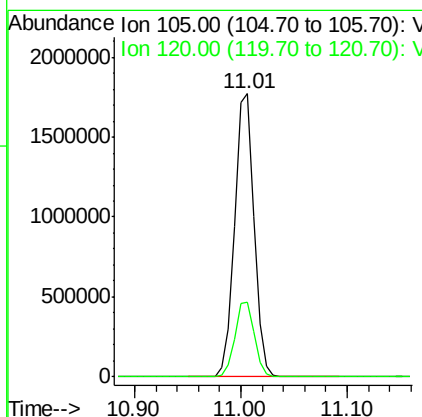
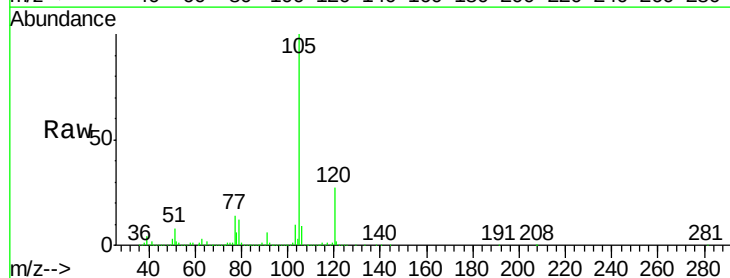
RT: 11.01 min Scan# 1627

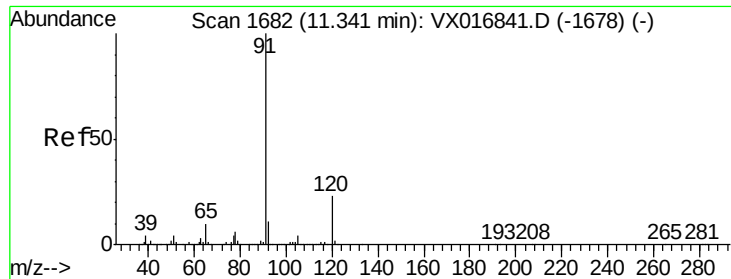
Delta R.T. 0.01 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	2272872		
120	26.6	13.2	39.6	





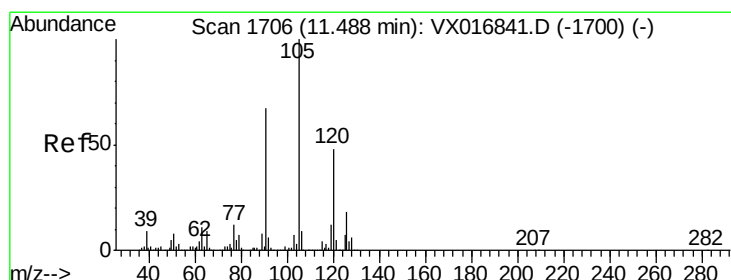
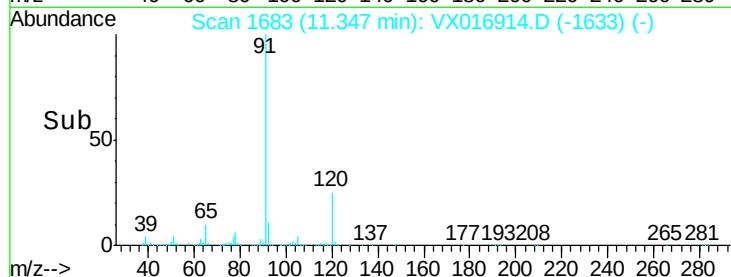
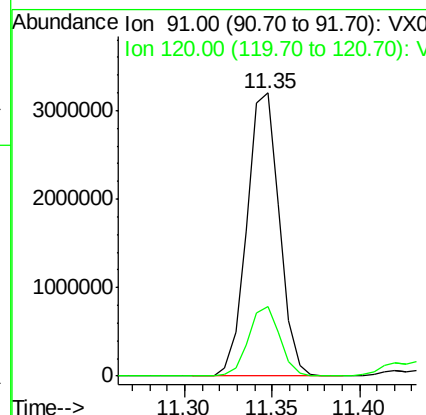
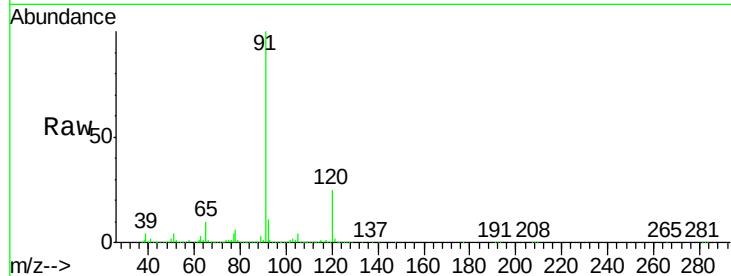
#78
n-propylbenzene
Concen: 204.085 ug/l
RT: 11.35 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Instrument :
MSVOA_X
ClientSampled :
FD_061820

Tgt Ion: 91 Resp: 4113349
Ion Ratio Lower Upper
91 100
120 23.7 11.9 35.5

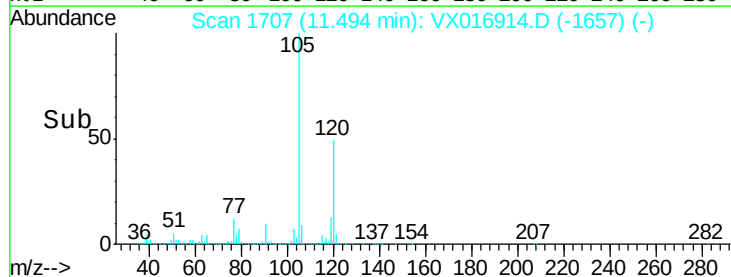
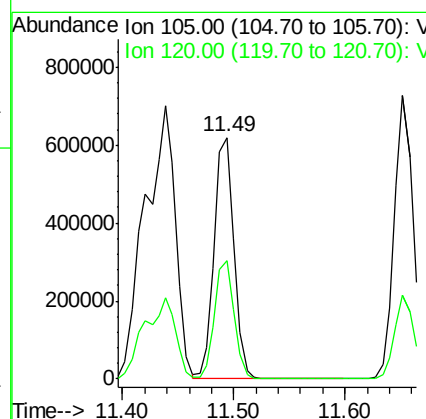
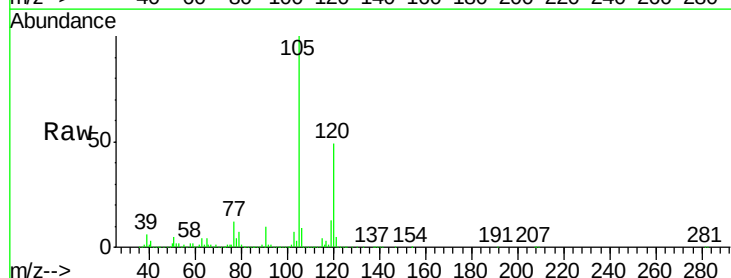
Manual Integrations
APPROVED

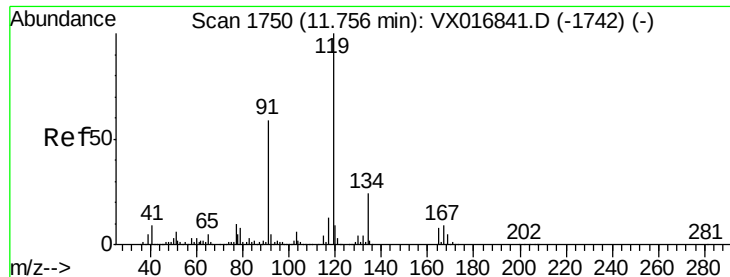
MMDadoda
6/22/2020 12:21:48 PM



#80
1,3,5-Trimethylbenzene
Concen: 48.991 ug/l
RT: 11.49 min Scan# 1707
Delta R.T. 0.01 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Tgt Ion: 105 Resp: 763375
Ion Ratio Lower Upper
105 100
120 48.6 24.6 74.0





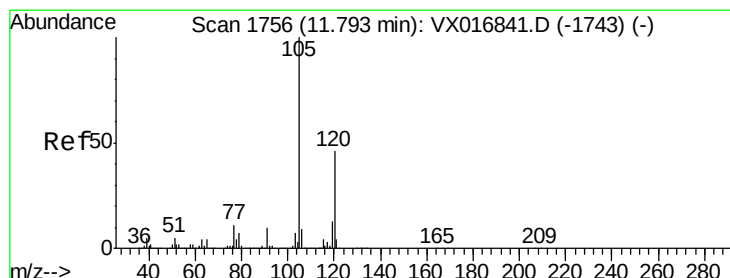
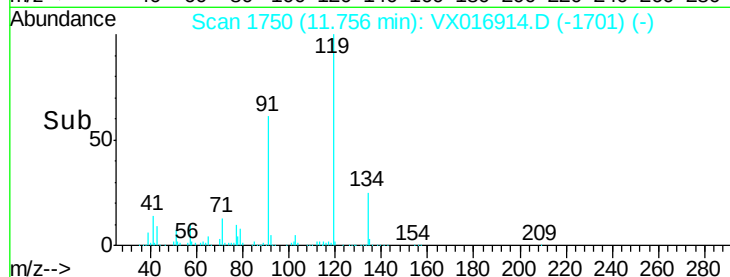
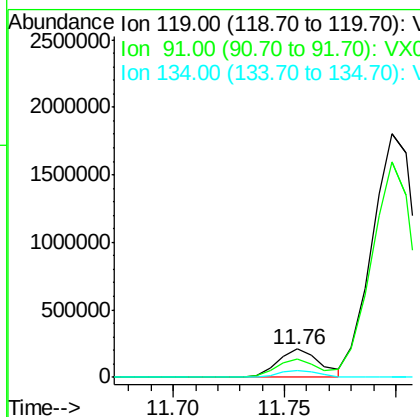
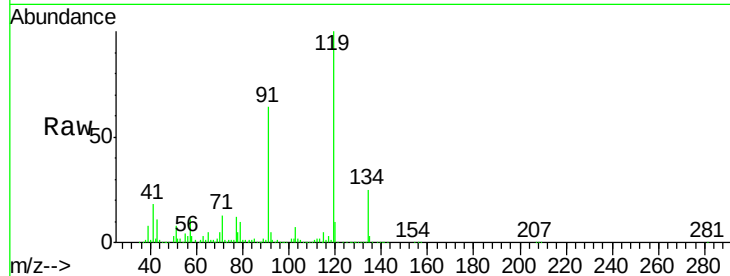
#83
 tert-Butylbenzene
 Concen: 18.096 ug/l
 RT: 11.76 min Scan# 1750
 Delta R.T. -0.00 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

Instrument :
 MSVOA_X
 ClientSampleId :
 FD_061820

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	278993		
91	59.3	28.5	85.5	
134	23.8	11.7	35.1	

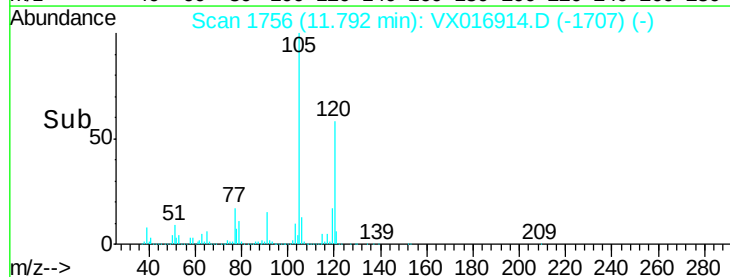
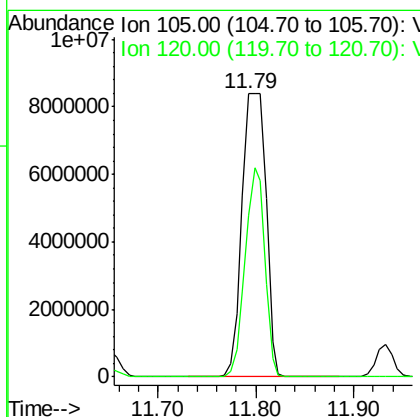
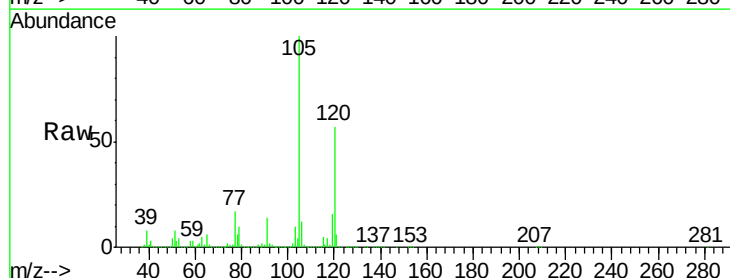
Manual Integrations
 APPROVED

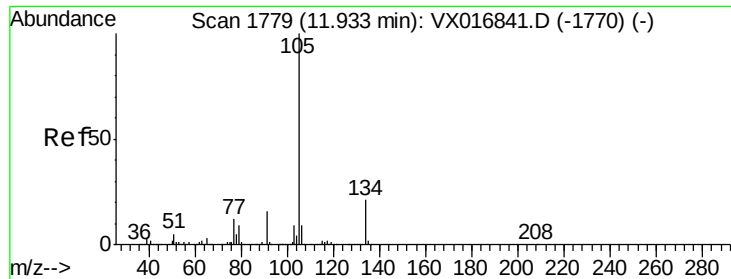
MMDadoda
 6/22/2020 12:21:48 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 895.375 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	14371755		
120	60.4	22.3	66.9	





#85

sec-Butylbenzene

Concen: 65.035 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

Instrument :

MSVOA_X

ClientSampleId :

FD_061820

Tgt Ion:105 Resp: 1164485

Ion Ratio Lower Upper

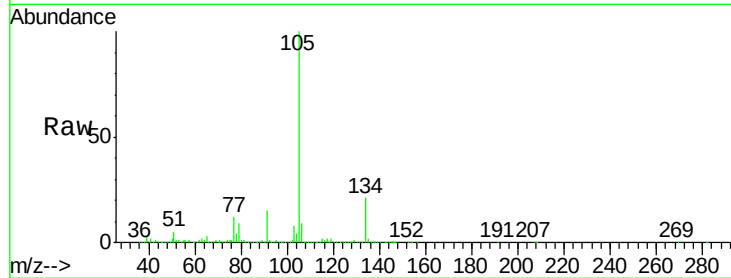
105 100

134 30.6 10.4 31.2

Manual Integrations
APPROVED

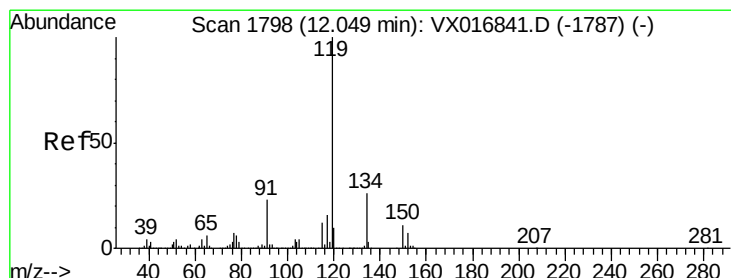
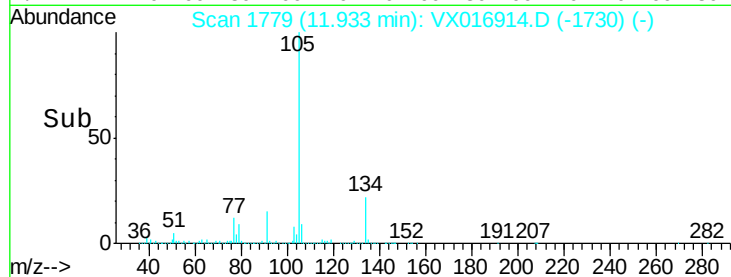
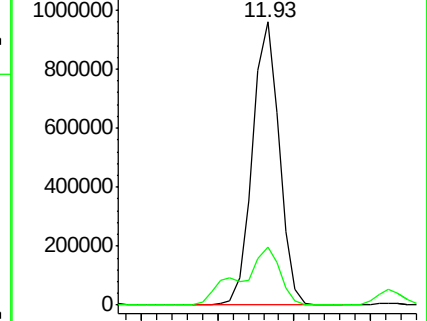
MMDadoda

6/22/2020 12:21:48 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 27.670 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VX016914.D

Acq: 20 Jun 2020 07:24

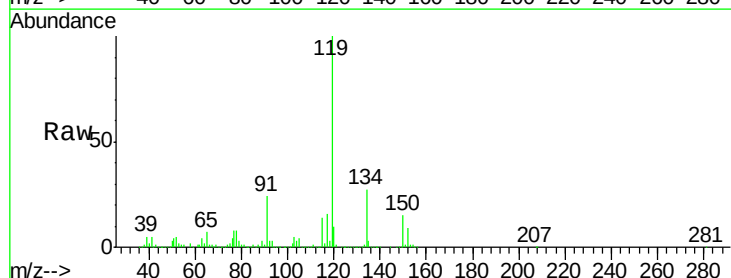
Tgt Ion:119 Resp: 453942

Ion Ratio Lower Upper

119 100

134 26.8 12.9 38.7

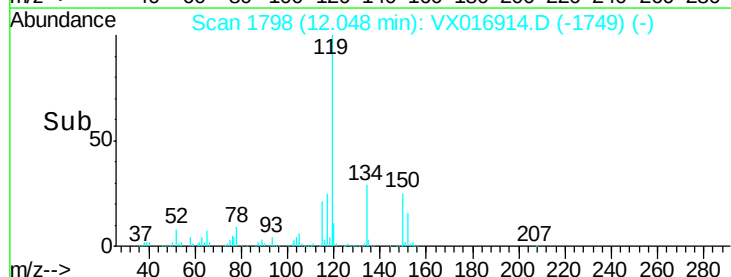
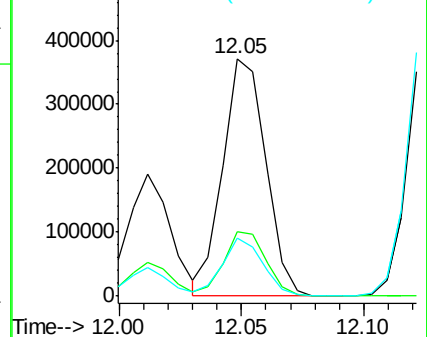
91 22.8 11.6 34.8

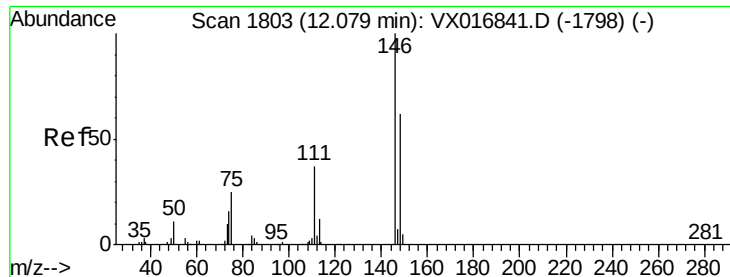


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





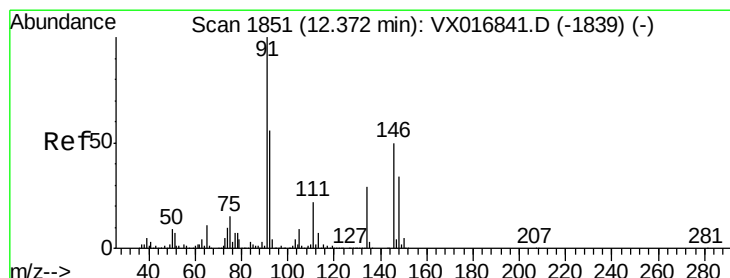
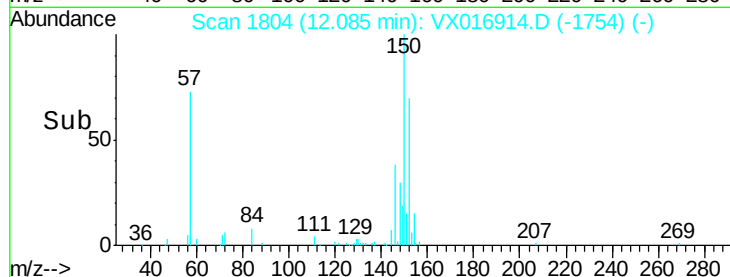
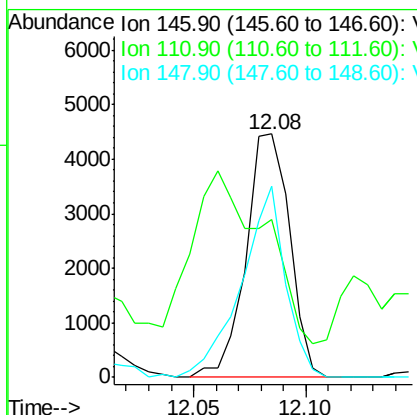
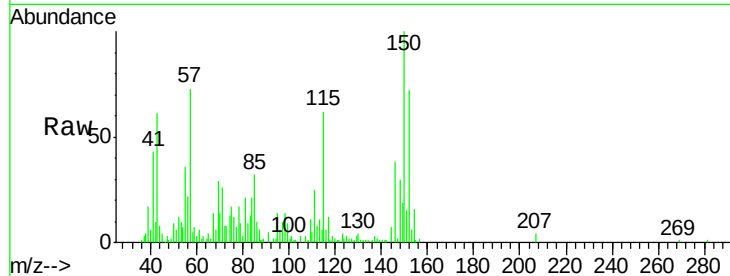
#88
 1,4-Dichlorobenzene
 Concen: 0.667 ug/l m
 RT: 12.08 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

Instrument :
 MSVOA_X
 ClientSampleId :
 FD_061820

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.0	57.0#
148	78.8	31.6	95.0

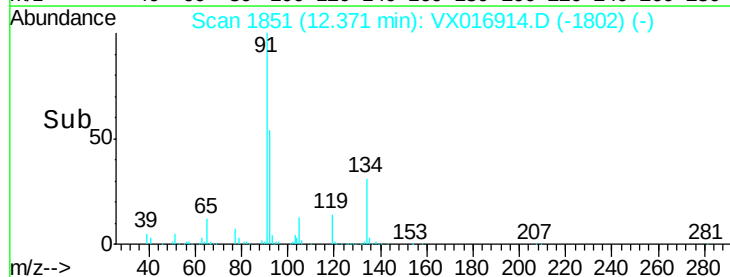
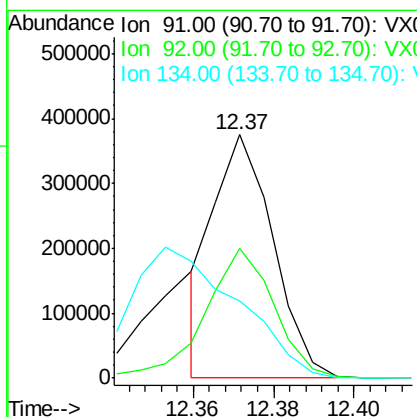
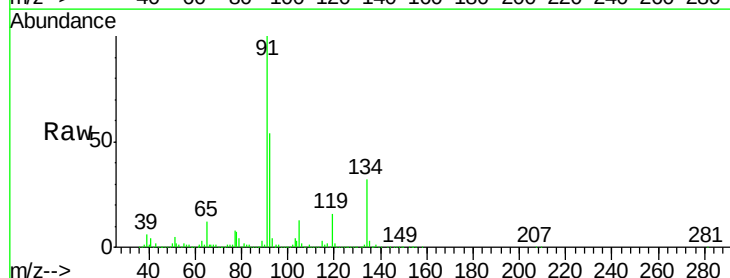
Manual Integrations
 APPROVED

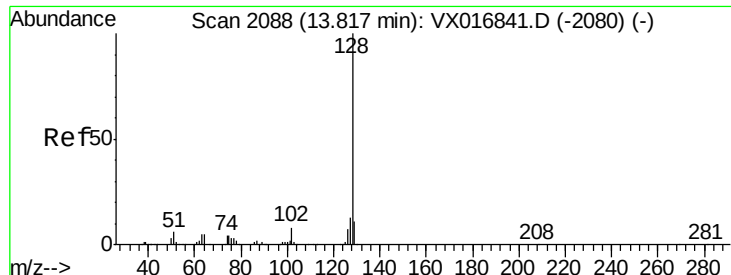
MMDadoda
 6/22/2020 12:21:48 PM



#89
 n-Butylbenzene
 Concen: 27.668 ug/l m
 RT: 12.37 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VX016914.D
 Acq: 20 Jun 2020 07:24

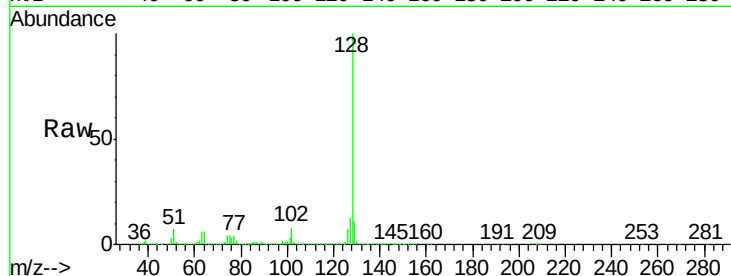
Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.7	27.4	82.2
134	95.2	13.9	41.6#





#95
Naphthalene
Concen: 83.675 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX016914.D
Acq: 20 Jun 2020 07:24

Instrument :
MSVOA_X
ClientSampleId :
FD_061820



Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
6/22/2020 12:21:48 PM

