

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
 Data File : VV016912.D
 Acq On : 13 Jun 2020 05:17
 Operator : SY/MD
 Sample : L2990-14MSD
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MSD

Manual Integrations
 APPROVED

MMDadoda
 6/15/2020 12:23:16 PM

Quant Time: Jun 13 07:21:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 13 06:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.65	114	363573	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	345921	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	185704	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	103546	40.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.72%
7) Chloroethane-d5	1.57	69	63337	41.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.28%
11) 1,1-Dichloroethene-d2	2.12	63	213635	49.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.18%
21) 2-Butanone-d5	3.90	46	164918	86.85	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	86.85%
24) Chloroform-d	4.38	84	228380	43.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.56%
26) 1,2-Dichloroethane-d4	5.06	65	172595	48.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.28%
32) Benzene-d6	5.08	84	438756	44.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.00%
36) 1,2-Dichloropropane-d6	6.10	67	135267	43.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.04%
41) Toluene-d8	7.38	98	429547m	46.94	ug/L	0.04
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.88%
43) trans-1,3-Dichloropropene-	7.67	79	66013	40.78	ug/L	0.03
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.56%
47) 2-Hexanone-d5	8.12	63	117640	86.81	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.81%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	176403	42.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.74%
64) 1,2-Dichlorobenzene-d4	11.65	152	181695	45.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	11010	4.247	ug/L	# 69
12) 1,1-Dichloroethene	2.13	96	93543	51.839	ug/L	98
13) Acetone	2.18	43	3731	2.982	ug/L	92
15) Methyl Acetate	2.44	43	57645	20.673	ug/L	96
19) 1,1-Dichloroethane	3.21	63	29196	6.304	ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	86515	32.254	ug/L	98
29) Cyclohexane	4.70	56	476182	110.776	ug/L	98
30) 1,1,1-Trichloroethane	4.64	97	4446	1.008	ug/L	96
33) Benzene	5.13	78	483855	47.275	ug/L	100
34) Trichloroethene	5.94	95	134375	48.954	ug/L	98
35) Methylcyclohexane	6.16	83	2708616	629.001	ug/L	98
42) Toluene	7.41	91	80411235m	7452.793	ug/L	
51) Chlorobenzene	8.92	112	364383	51.764	ug/L	98
52) Ethylbenzene	9.04	91	30892392m	2584.988	ug/L	
53) m,p-Xylene	9.18	106	39729301m	8928.691	ug/L	
54) o-xylene	9.59	106	18851382m	4295.680	ug/L	
56) Isopropylbenzene	9.96	105	1158347	98.234	ug/L	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
Data File : VV016912.D
Acq On : 13 Jun 2020 05:17
Operator : SY/MD
Sample : L2990-14MSD
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
E3YG8MSD

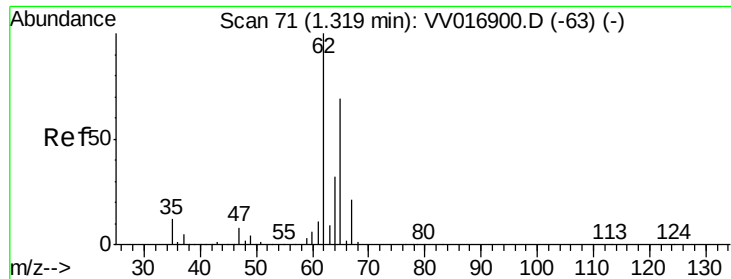
Manual Integrations
APPROVED

MMDadoda
6/15/2020 12:23:16 PM

Quant Time: Jun 13 07:21:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jun 13 06:09:05 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.67	146	27328	4.636	ug/L	91

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



#5

Vinyl chloride

Concen: 4.247 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016912.D

Acq: 13 Jun 2020 05:17

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MSD

Tot Ion: 62 Resp: 11010

Ion Ratio Lower Upper

62 100

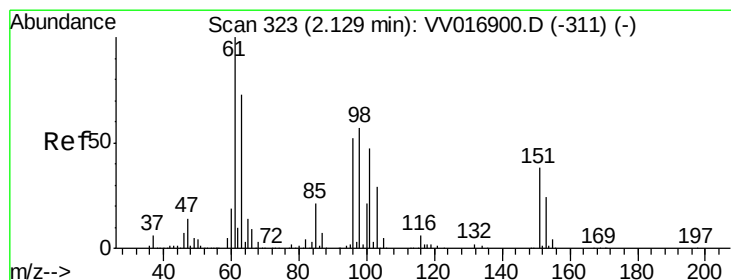
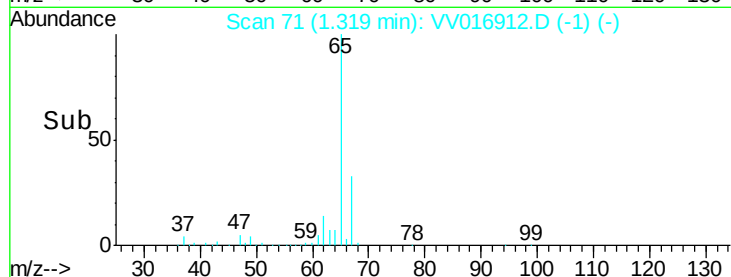
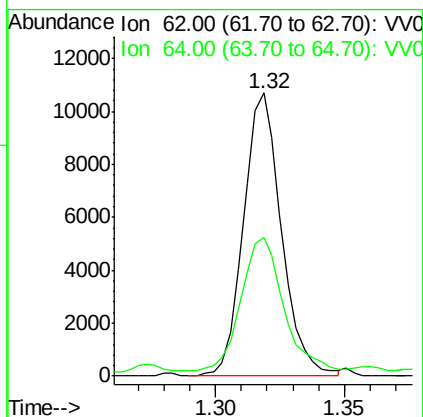
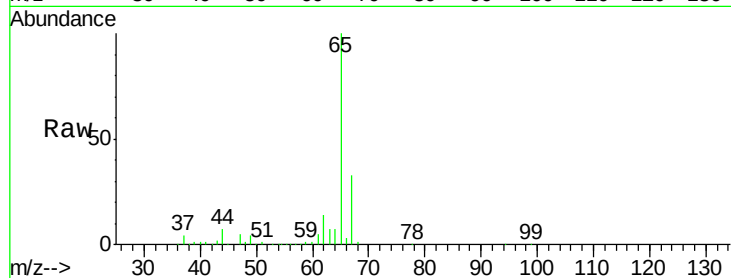
64 49.1 22.3 41.5#

Manual Integrations

APPROVED

MMDadoda

6/15/2020 12:23:16 PM



#12

1,1-Dichloroethene

Concen: 51.839 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV016912.D

Acq: 13 Jun 2020 05:17

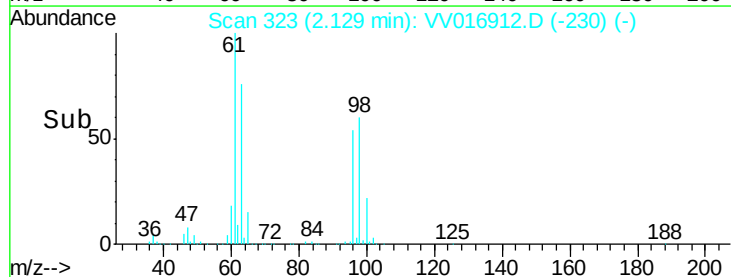
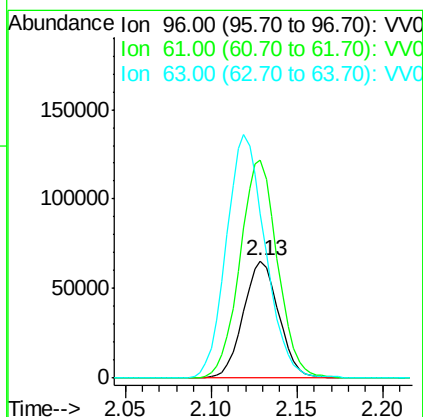
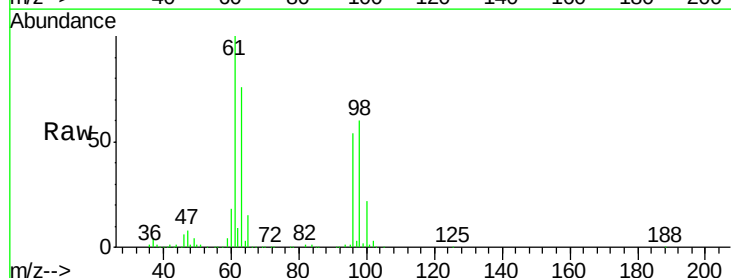
Tgt Ion: 96 Resp: 93543

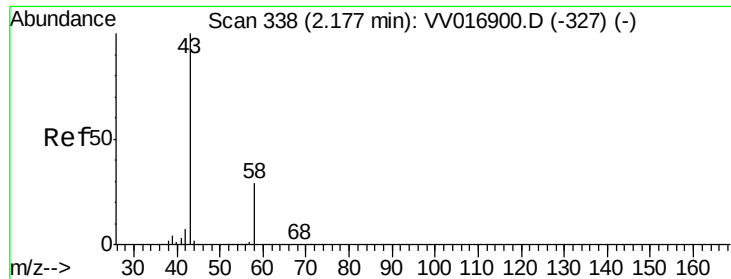
Ion Ratio Lower Upper

96 100

61 186.4 130.4 242.2

63 140.9 103.3 191.9





#13

Acetone

Concen: 2.982 ug/L

RT: 2.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: VV016912.D

Acq: 13 Jun 2020 05:17

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MSD

Tot Ion: 43 Resp: 3731

Ion Ratio Lower Upper

43 100

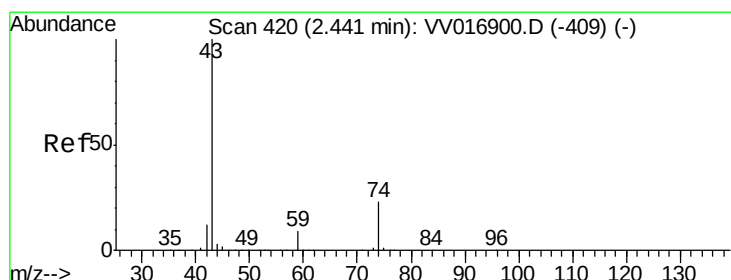
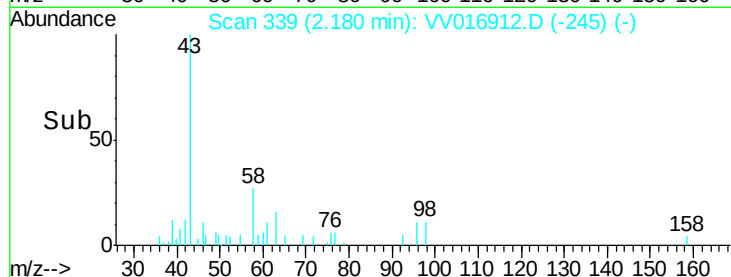
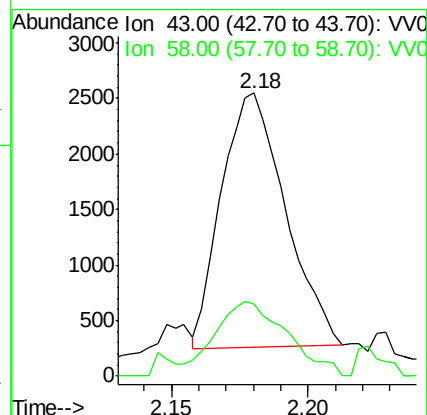
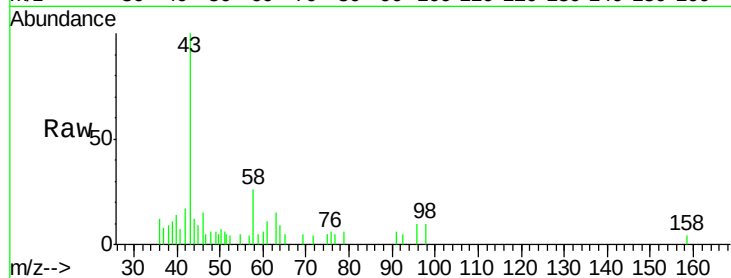
58 31.6 0.0 55.2

Manual Integrations

APPROVED

MMDadoda

6/15/2020 12:23:16 PM



#15

Methyl Acetate

Concen: 20.673 ug/L

RT: 2.44 min Scan# 421

Delta R.T. 0.00 min

Lab File: VV016912.D

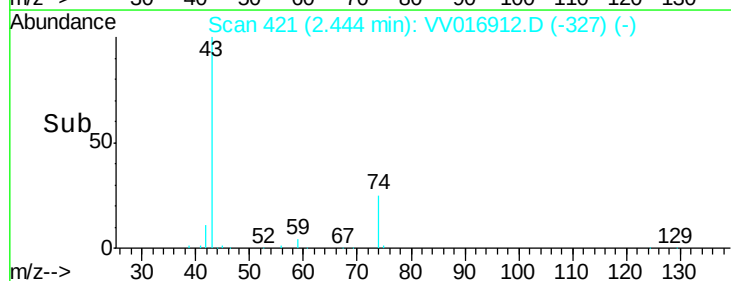
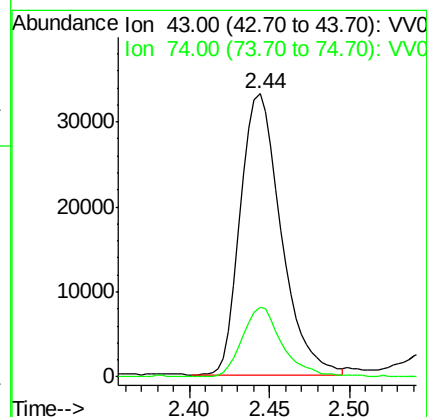
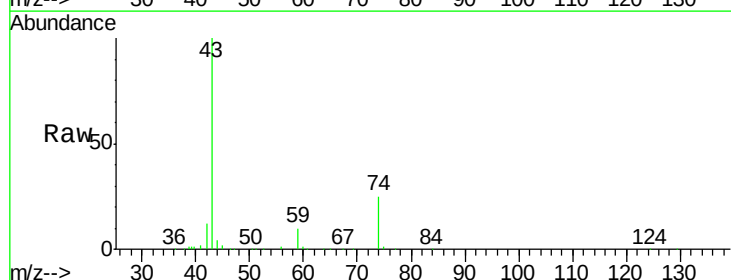
Acq: 13 Jun 2020 05:17

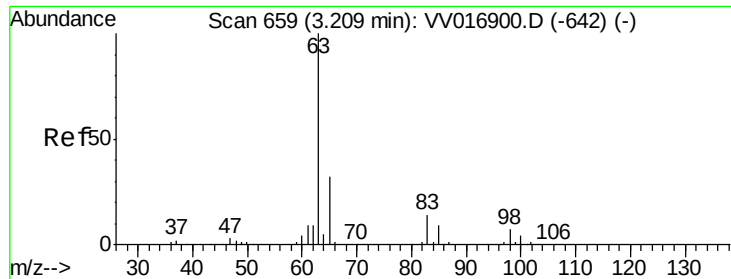
Tgt Ion: 43 Resp: 57645

Ion Ratio Lower Upper

43 100

74 24.4 17.9 26.9





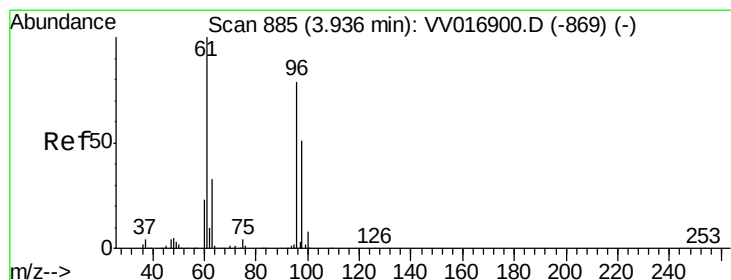
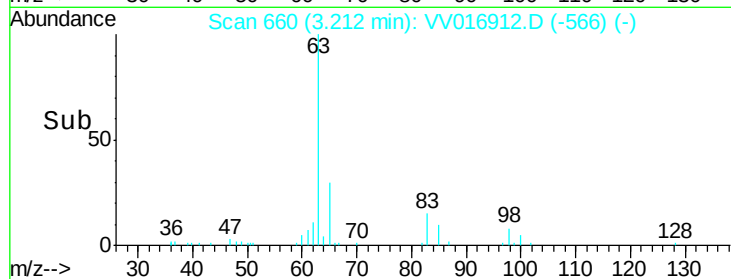
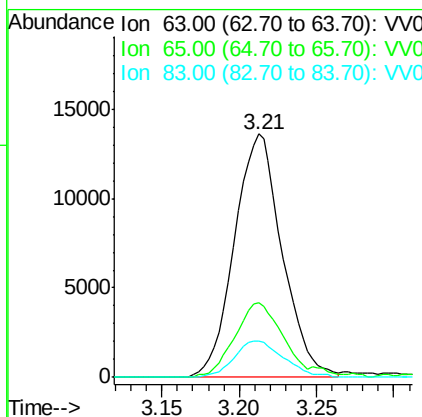
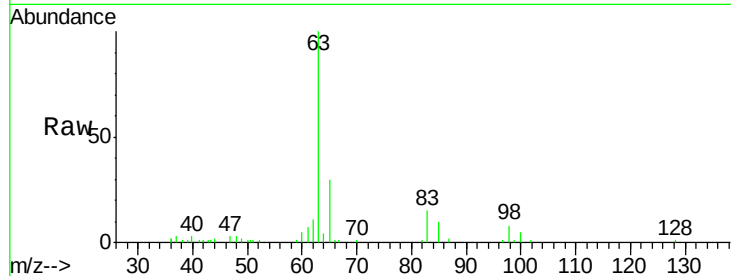
#19
 1,1-Dichloroethane
 Concen: 6.304 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV016912.D
 Acq: 13 Jun 2020 05:17

Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MSD

Tot Ion:	63	Resp:	29196
Ion	Ratio	Lower	Upper
63	100		
65	30.5	23.2	43.0
83	15.1	10.0	18.6

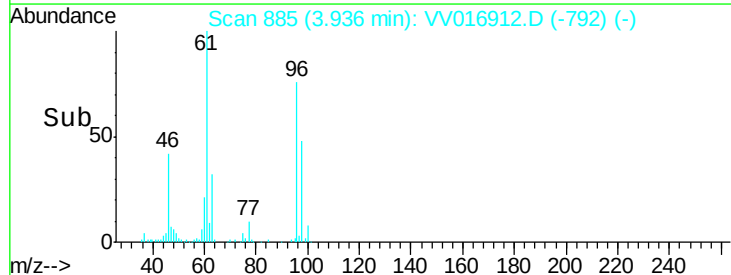
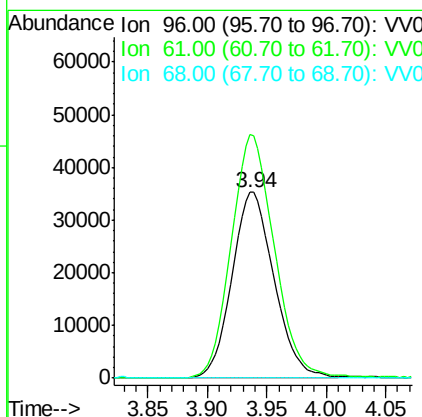
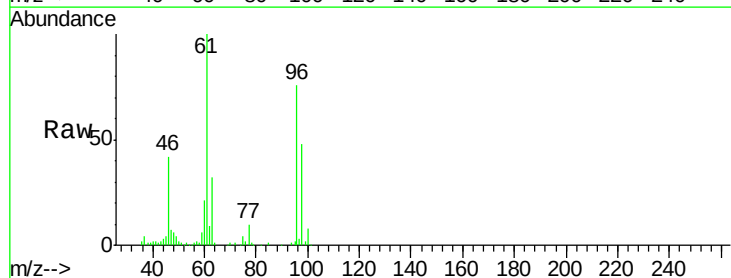
Manual Integrations
 APPROVED

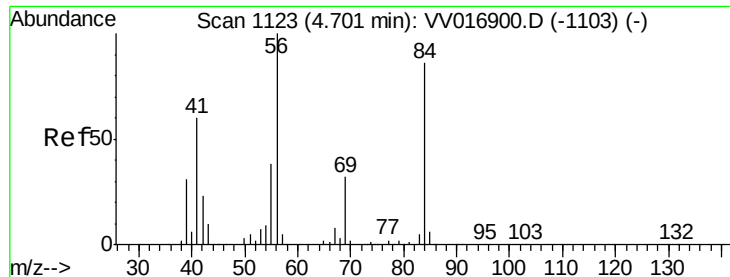
MMDadoda
 6/15/2020 12:23:16 PM



#20
 cis-1,2-Dichloroethene
 Concen: 32.254 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. -0.00 min
 Lab File: VV016912.D
 Acq: 13 Jun 2020 05:17

Tgt Ion:	96	Resp:	86515
Ion	Ratio	Lower	Upper
96	100		
61	131.1	93.4	173.4
68	0.0	0.0	0.0





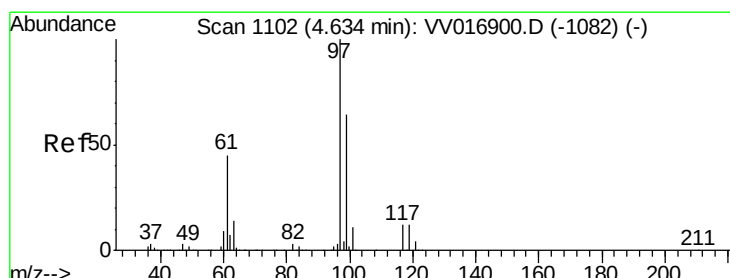
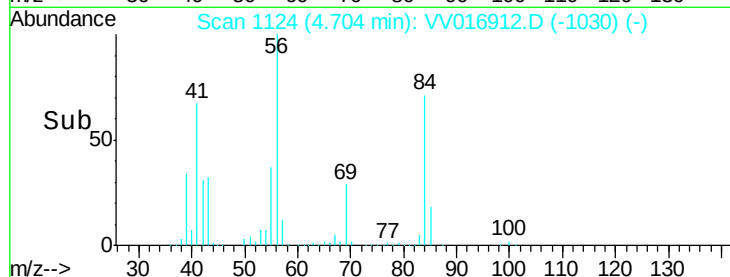
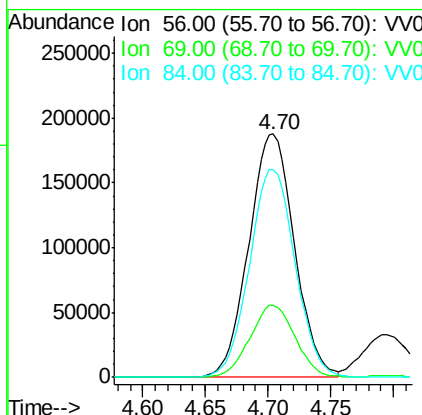
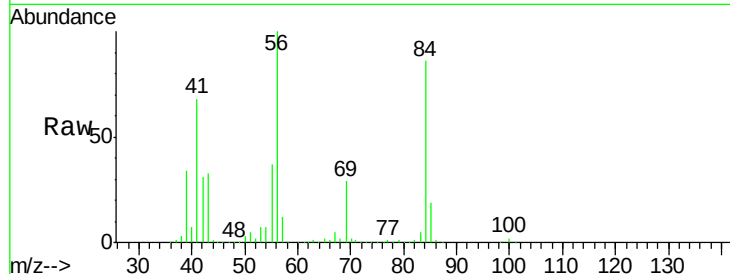
#29
Cyclohexane
Concen: 110.776 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. 0.00 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Instrument :
MSVOA_V
ClientSampleId :
E3YG8MSD

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.4	25.0	37.4
84	85.8	69.5	104.3

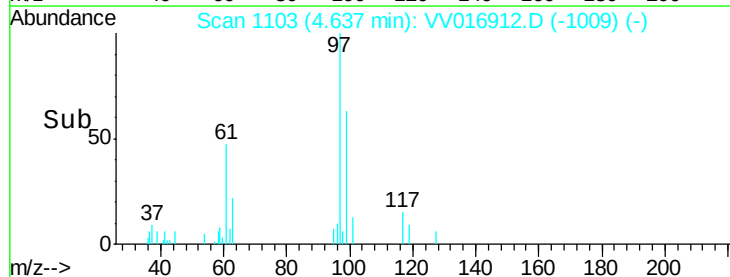
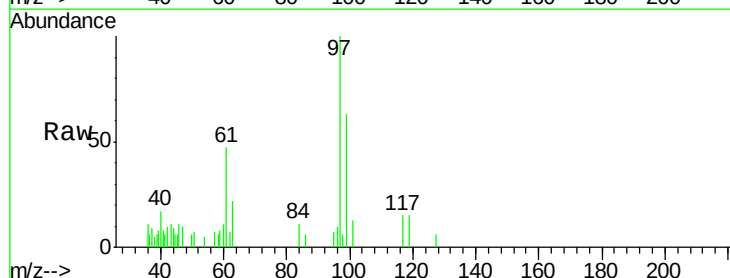
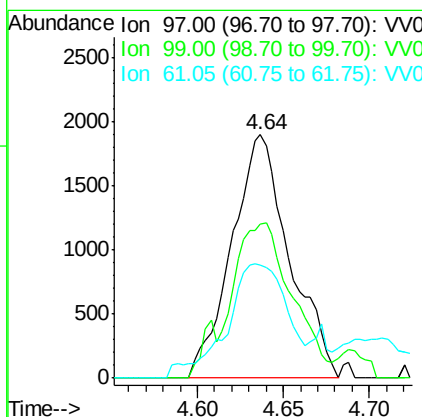
Manual Integrations
APPROVED

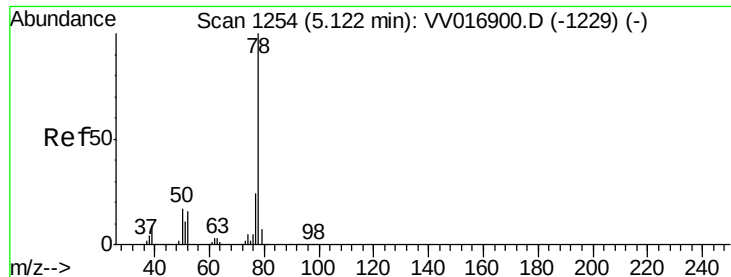
MMDadoda
6/15/2020 12:23:16 PM



#30
1,1,1-Trichloroethane
Concen: 1.008 ug/L
RT: 4.64 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.3	76.9
61	40.9	36.7	55.1





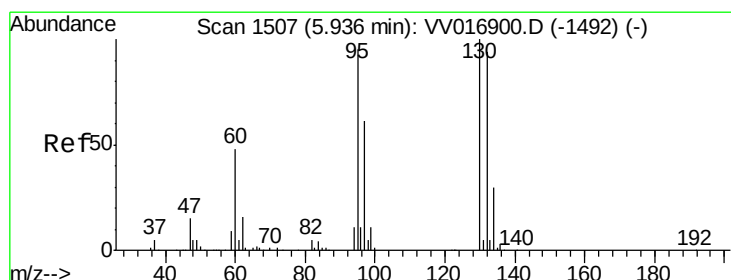
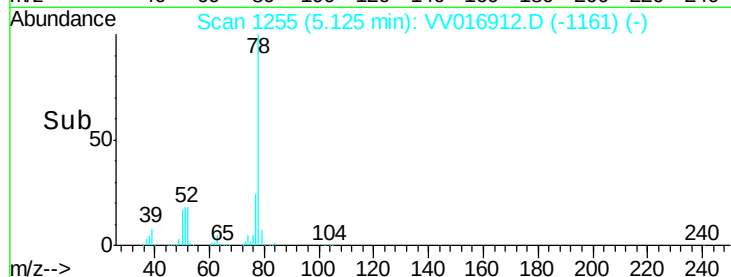
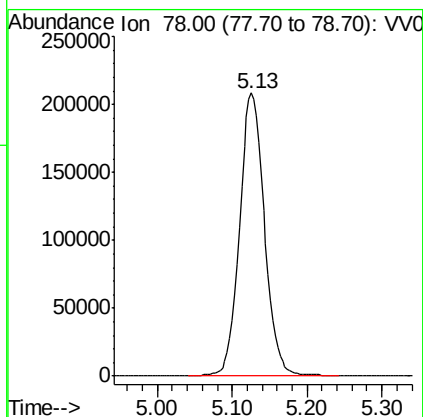
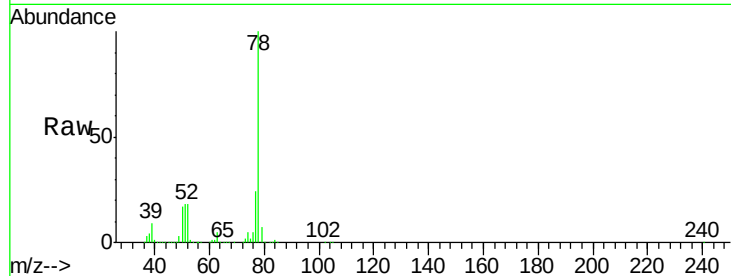
#33
Benzene
Concen: 47.275 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Instrument :
MSVOA_V
ClientSampleId :
E3YG8MSD

Tgt Ion: 78 Resp: 483855

Manual Integrations
APPROVED

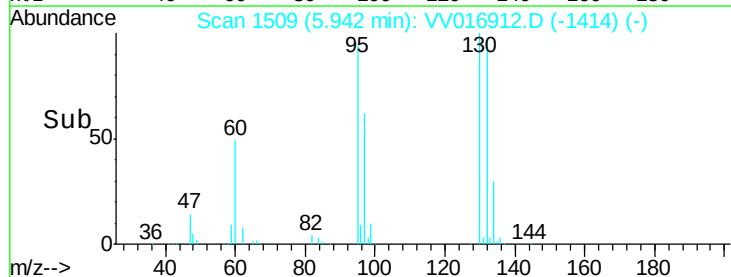
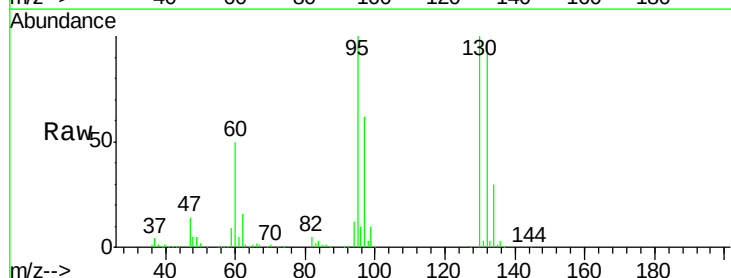
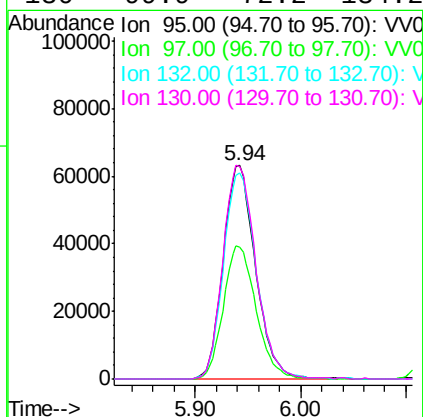
MMDadoda
6/15/2020 12:23:16 PM

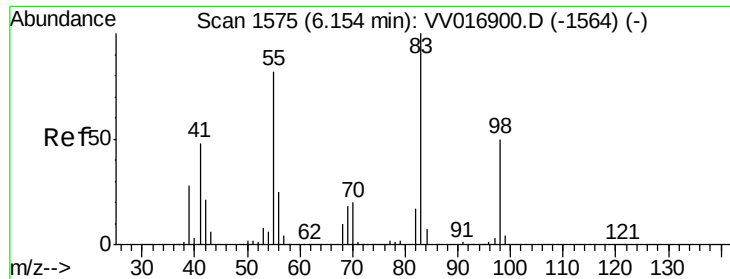


#34
Trichloroethene
Concen: 48.954 ug/L
RT: 5.94 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Tgt Ion: 95 Resp: 134375

Ion	Ratio	Lower	Upper
95	100		
97	62.0	44.3	82.3
132	96.9	67.9	126.1
130	99.9	72.2	134.2





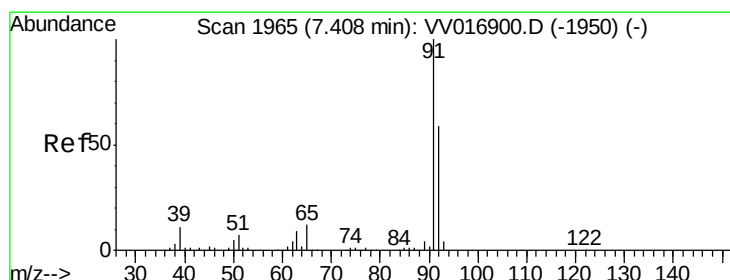
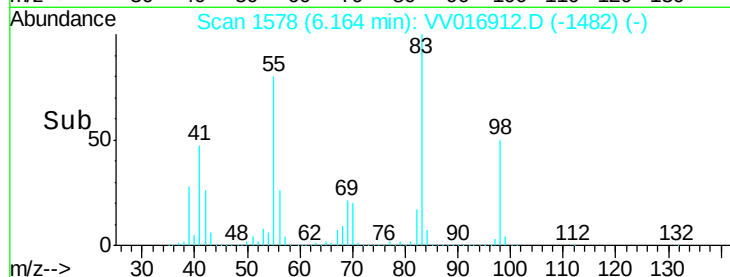
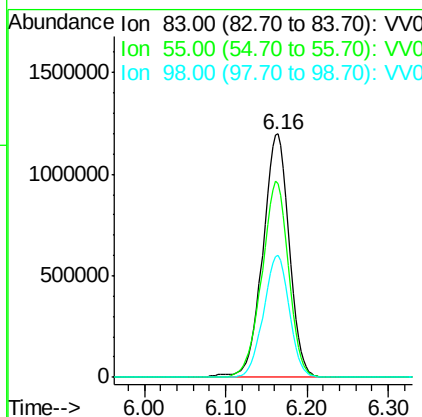
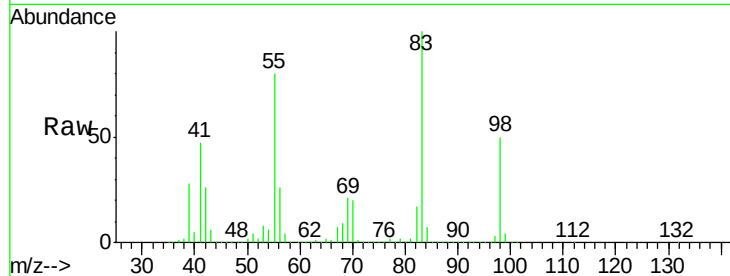
#35
Methylvlcyclohexane
Concen: 629.001 ug/L
RT: 6.16 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Instrument :
MSVOA_V
ClientSampleId :
E3YG8MSD

Tot Ion: 83 Resp: 2708616
Ion Ratio Lower Upper
83 100
55 81.3 64.2 96.2
98 49.0 40.3 60.5

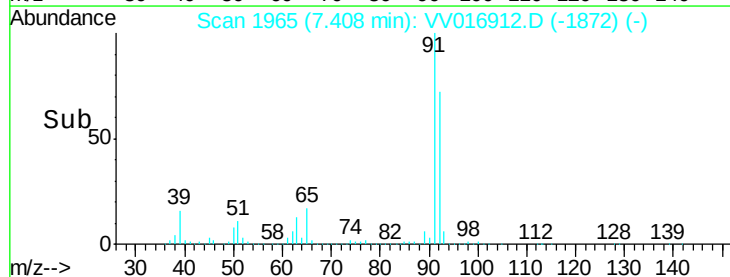
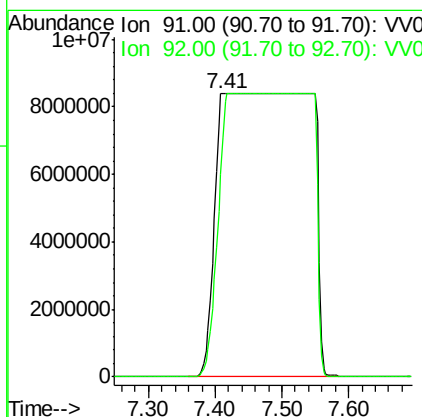
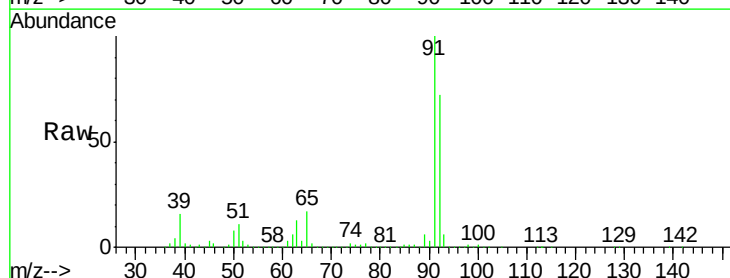
Manual Integrations
APPROVED

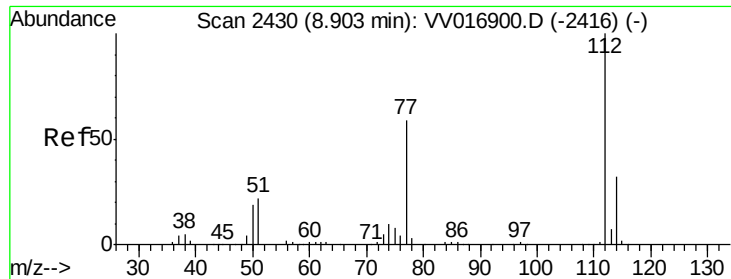
MMDadoda
6/15/2020 12:23:16 PM



#42
Toluene
Concen: 7452.793 ug/L m
RT: 7.41 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Tgt Ion: 91 Resp: 80411235
Ion Ratio Lower Upper
91 100
92 71.5 40.4 75.0





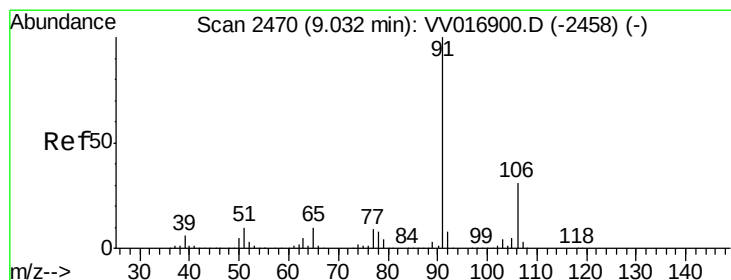
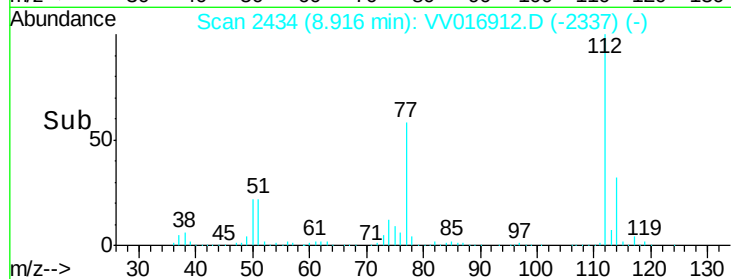
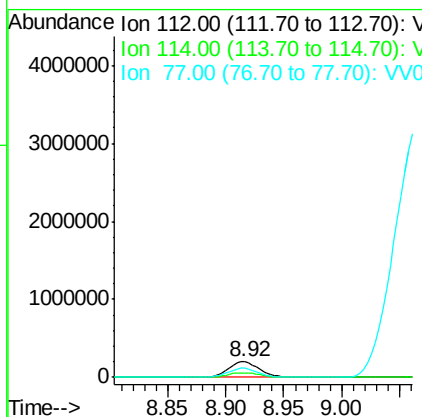
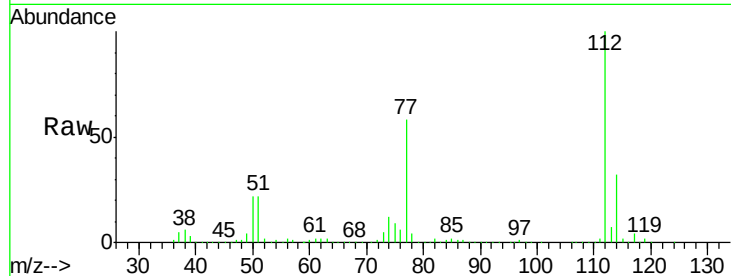
#51
Chlorobenzene
Concen: 51.764 ug/L
RT: 8.92 min Scan# 2434
Delta R.T. 0.01 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Instrument :
MSVOA_V
ClientSampleId :
E3YG8MSD

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.3	41.3
77	58.2	47.9	71.9

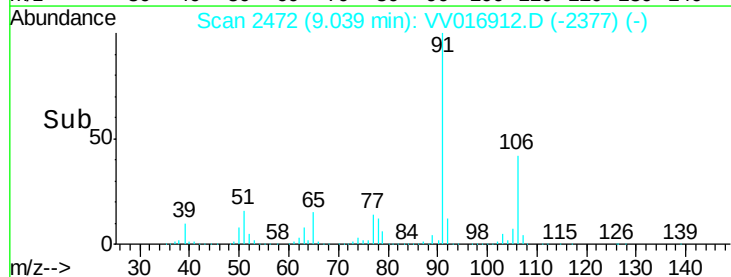
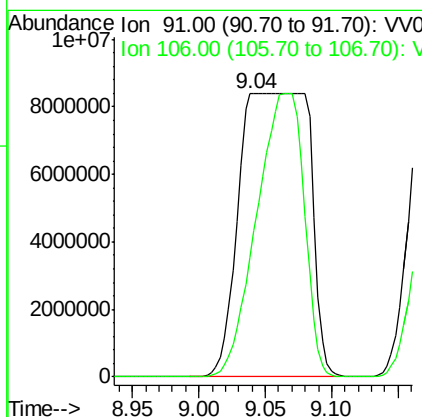
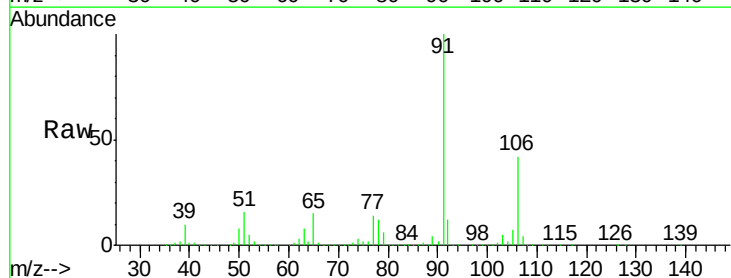
Manual Integrations
APPROVED

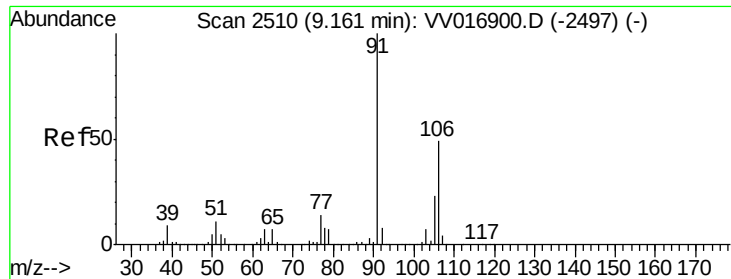
MMDadoda
6/15/2020 12:23:16 PM



#52
Ethylbenzene
Concen: 2584.988 ug/L m
RT: 9.04 min Scan# 2472
Delta R.T. 0.01 min
Lab File: VV016912.D
Acq: 13 Jun 2020 05:17

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.2	21.1	39.1#





#53

m,p-Xylene

Concen: 8928.691 ug/L m

RT: 9.18 min Scan# 2516

Delta R.T. 0.02 min

Lab File: VV016912.D

Acq: 13 Jun 2020 05:17

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MSD

Tot Ion:106 Resp:39729301

Ion Ratio Lower Upper

106 100

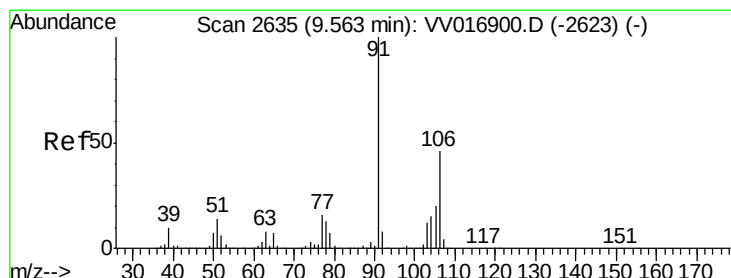
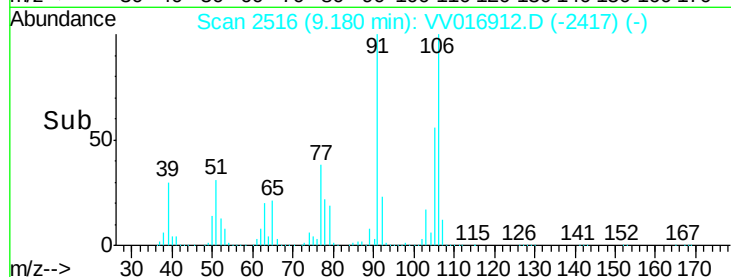
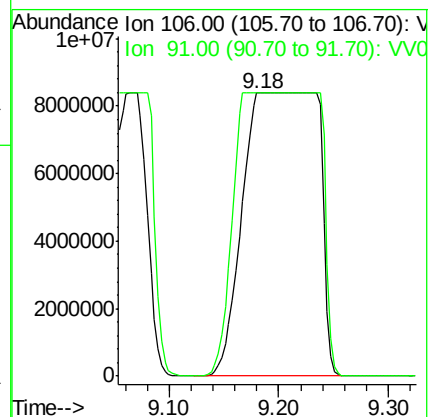
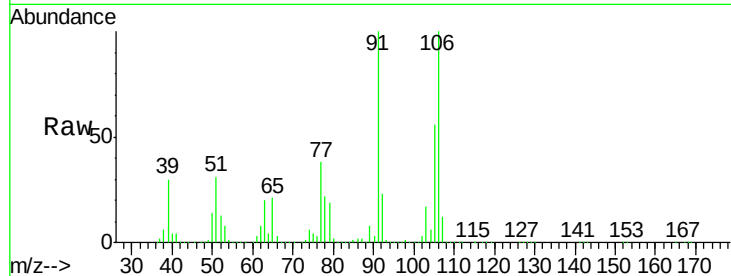
91 100.0 144.6 268.6#

Manual Integrations

APPROVED

MMDadoda

6/15/2020 12:23:16 PM



#54

o-xylene

Concen: 4295.680 ug/L m

RT: 9.59 min Scan# 2644

Delta R.T. 0.03 min

Lab File: VV016912.D

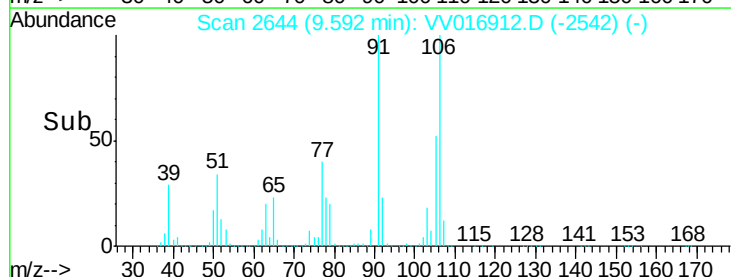
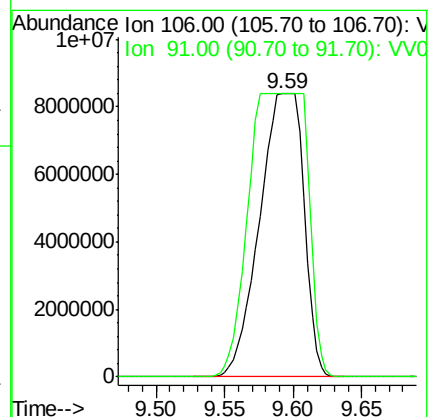
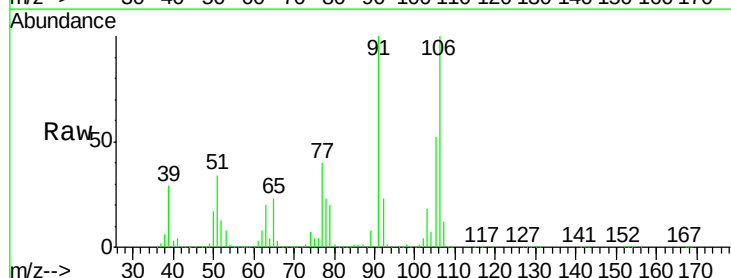
Acq: 13 Jun 2020 05:17

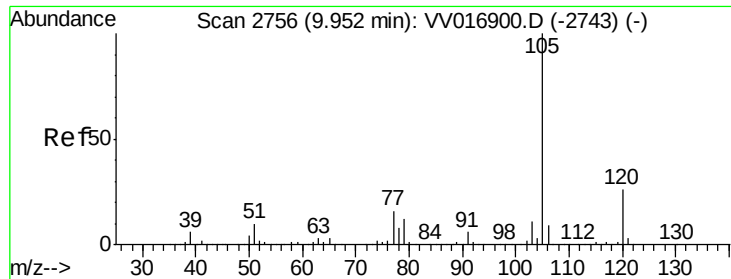
Tgt Ion:106 Resp:18851382

Ion Ratio Lower Upper

106 100

91 100.0 155.9 289.5#





#56

Isopropylbenzene

Concen: 98.234 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VV016912.D

Acq: 13 Jun 2020 05:17

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MSD

Tot Ion:105 Resp: 1158347

Ion Ratio Lower Upper

105 100

120 26.2 21.2 31.8

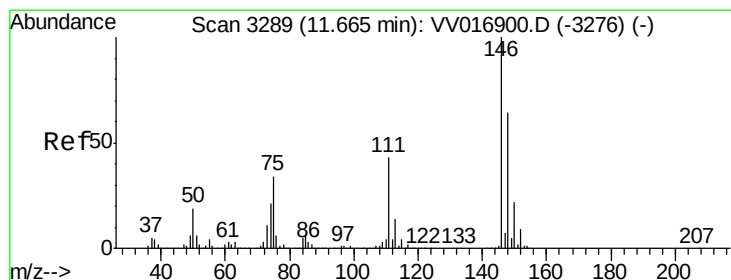
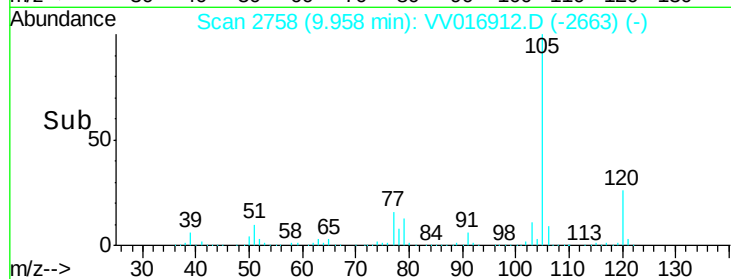
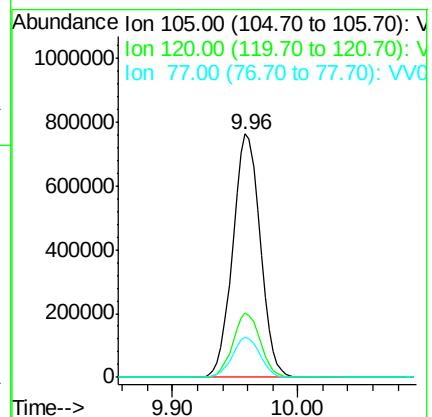
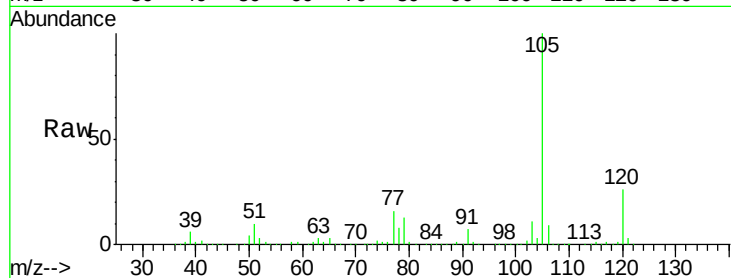
77 16.4 13.0 19.4

Manual Integrations

APPROVED

MMDadoda

6/15/2020 12:23:16 PM



#65

1,2-Dichlorobenzene

Concen: 4.636 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV016912.D

Acq: 13 Jun 2020 05:17

Tgt Ion:146 Resp: 27328

Ion Ratio Lower Upper

146 100

111 48.1 33.7 50.5

148 69.7 50.7 76.1

