

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092420\
 Data File : VV018431.D
 Acq On : 24 Sep 2020 15:59
 Operator : SY/MD
 Sample : L4109-10
 Misc : 6.37g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X0

Manual Integrations
 APPROVED

MMDadoda
 9/30/2020 3:43:15 PM

Quant Time: Sep 25 06:21:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 25 04:36:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	367976	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	359747	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.28	152	196826	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	86357	28.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	57.60%#
7) Chloroethane-d5	1.58	69	73016	29.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	59.52%#
11) 1,1-Dichloroethene-d2	2.10	63	130347	23.70	ug/L	-0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	47.40%#
21) 2-Butanone-d5	3.93	46	101325m	55.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	55.20%
24) Chloroform-d	4.37	84	182582	35.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	70.18%
26) 1,2-Dichloroethane-d4	5.05	65	121172	36.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.66%
32) Benzene-d6	5.07	84	378084	36.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	73.42%
36) 1,2-Dichloropropane-d6	6.09	67	124510	38.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	76.10%
41) Toluene-d8	7.34	98	361839	38.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	77.10%#
43) trans-1,3-Dichloropropene-	7.65	79	62300	37.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.94%
47) 2-Hexanone-d5	8.14	63	109015	87.95	ug/L	0.04
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.95%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	178661	43.50	ug/L	0.02
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.00%
64) 1,2-Dichlorobenzene-d4	11.65	152	166858	41.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.56%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
19) 1,1-Dichloroethane	3.21	63	8450	1.795	ug/L	92
20) cis-1,2-Dichloroethene	3.93	96	62241	23.383	ug/L	96
29) Cyclohexane	4.69	56	481352	115.873	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	499785	119.709	ug/L	99
34) Trichloroethene	5.94	95	5135	1.833	ug/L	97
35) Methylcyclohexane	6.15	83	18566	4.401	ug/L	97
42) Toluene	7.41	91	8333592	765.609	ug/L	95
46) Tetrachloroethene	8.00	164	2037	0.927	ug/L	93
51) Chlorobenzene	8.91	112	25399	3.593	ug/L	97
52) Ethylbenzene	9.04	91	2344280	197.269	ug/L	99
53) m,p-Xylene	9.16	106	3729339	840.768	ug/L	89
54) o-xylene	9.57	106	1597691	373.883	ug/L	96
56) Isopropylbenzene	9.95	105	1983930	172.265	ug/L	99
62) 1,3-Dichlorobenzene	11.21	146	23394	3.997	ug/L #	66
63) 1,4-Dichlorobenzene	11.30	146	25368	4.217	ug/L #	75
65) 1,2-Dichlorobenzene	11.67	146	150137	25.379	ug/L	97
68) 1,2,4-trichlorobenzene	13.29	180	19048	4.636	ug/L #	63

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092420\
Data File : VV018431.D
Acq On : 24 Sep 2020 15:59
Operator : SY/MD
Sample : L4109-10
Misc : 6.37g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BG3X0

Manual Integrations
APPROVED

MMDadoda
9/30/2020 3:43:15 PM

Quant Time: Sep 25 06:21:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 25 04:36:20 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	13.77	180	12159	3.005	ug/L #	52

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

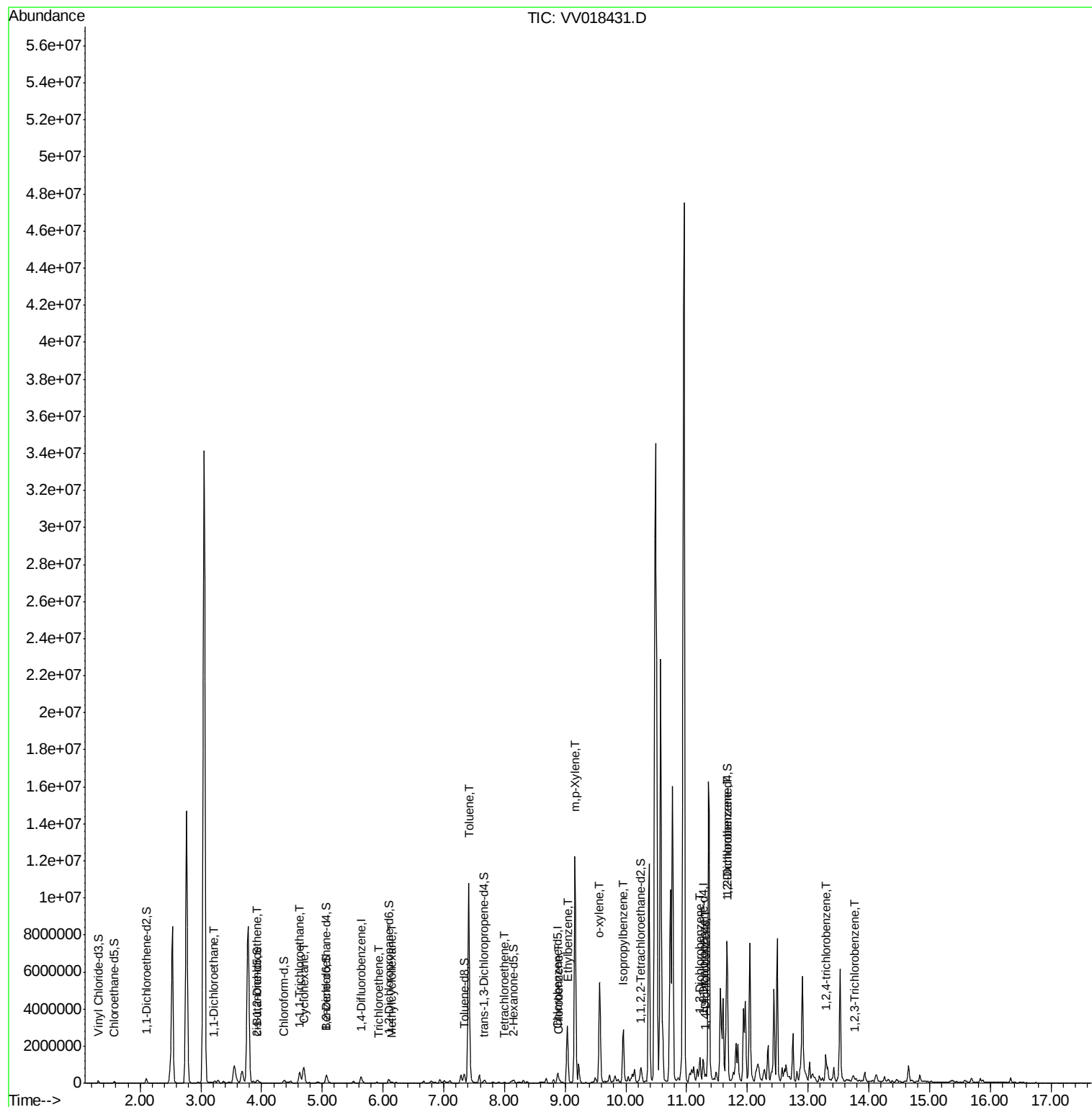
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV092420\
Data File : VV018431.D
Acq On : 24 Sep 2020 15:59
Operator : SY/MD
Sample : L4109-10
Misc : 6.37g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 16 Sample Multiplier: 1

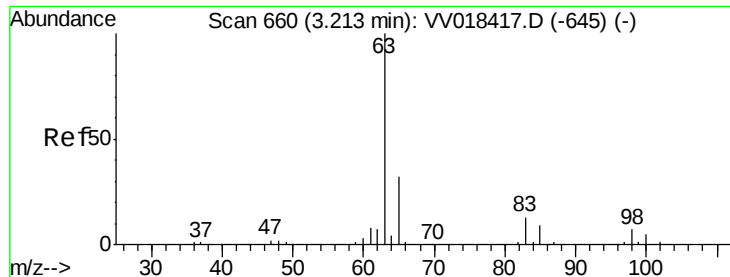
Instrument :
MSVOA_V
ClientSampleId :
BG3X0

Manual Integrations
APPROVED

MMDadoda
9/30/2020 3:43:15 PM

Quant Time: Sep 25 06:21:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 25 04:36:20 2020
Response via : Initial Calibration





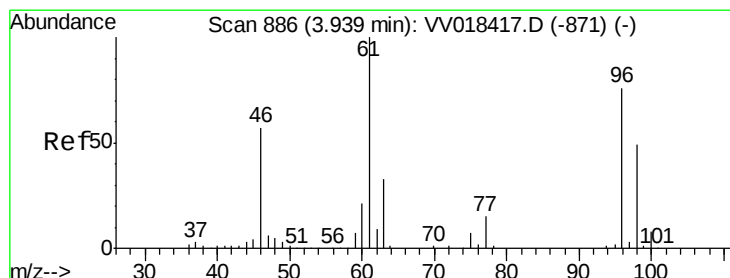
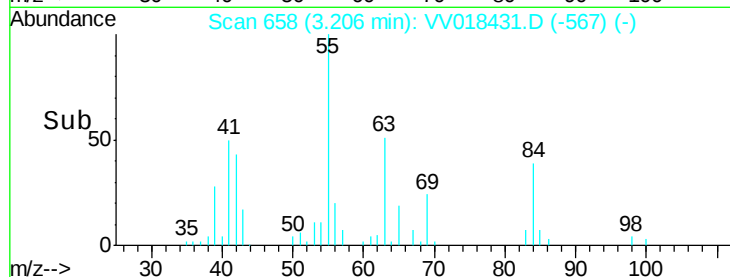
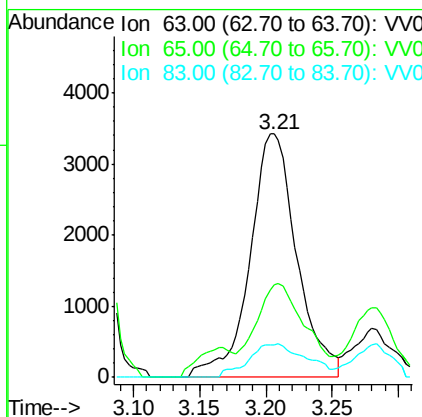
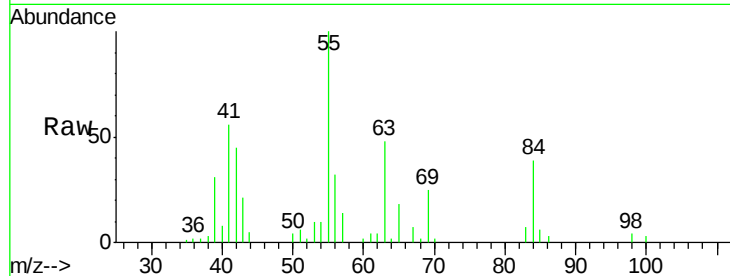
#19
 1,1-Dichloroethane
 Concen: 1.795 ug/L
 RT: 3.21 min Scan# 658
 Delta R.T. -0.01 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X0

Tot Ion	Ratio	Lower	Upper
63	100		
65	38.1	22.5	41.7
83	13.5	9.3	17.3

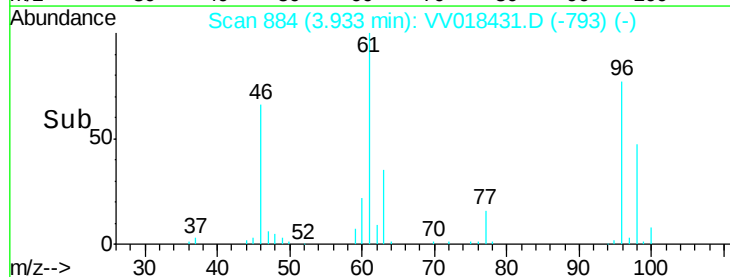
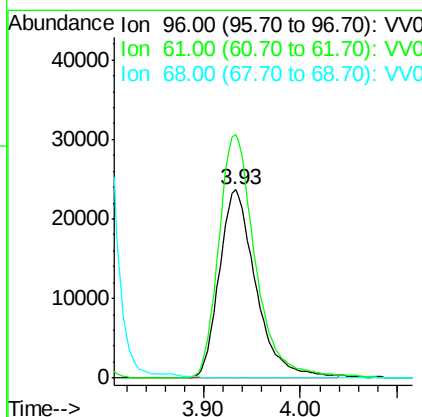
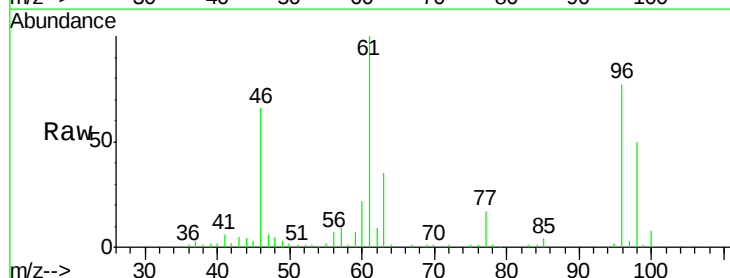
Manual Integrations
 APPROVED

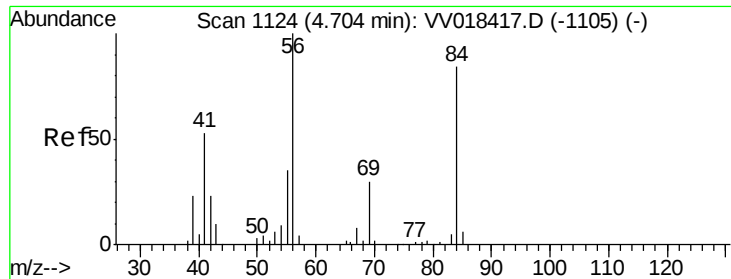
MMDadoda
 9/30/2020 3:43:15 PM



#20
 cis-1,2-Dichloroethene
 Concen: 23.383 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.3	93.6	173.8
68	0.0	0.0	0.0





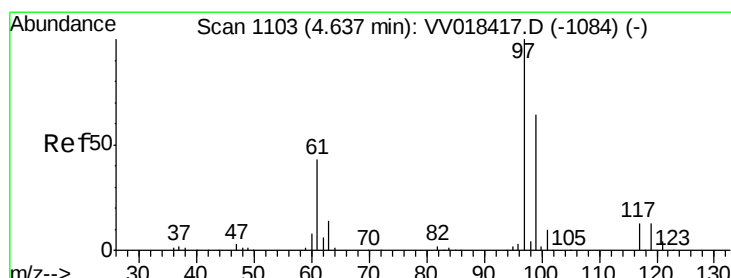
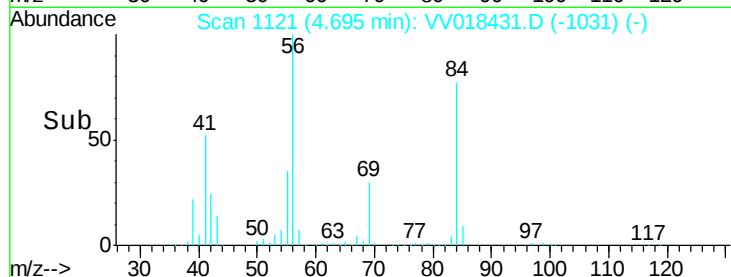
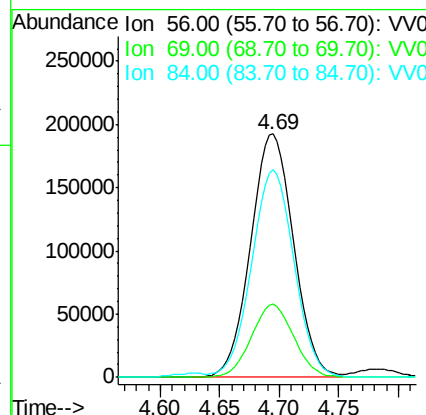
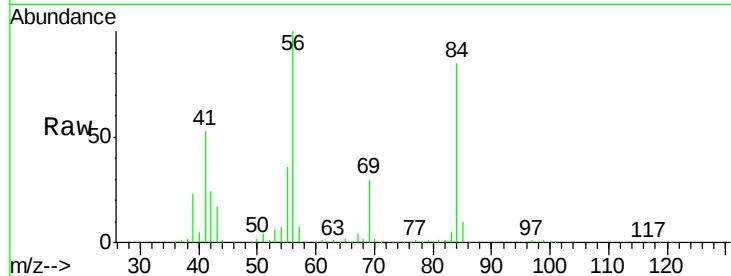
#29
Cvclohexane
Concen: 115.873 ug/L
RT: 4.69 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VV018431.D
Acq: 24 Sep 2020 15:59

Instrument :
MSVOA_V
ClientSampleId :
BG3X0

Tot Ion	Ratio	Resp	Lower	Upper
56	100	481352		
69	29.8		24.2	36.2
84	84.7		68.3	102.5

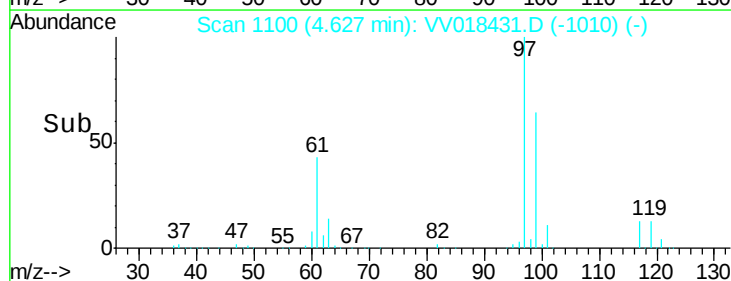
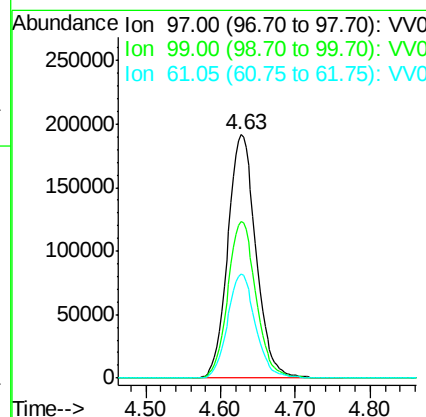
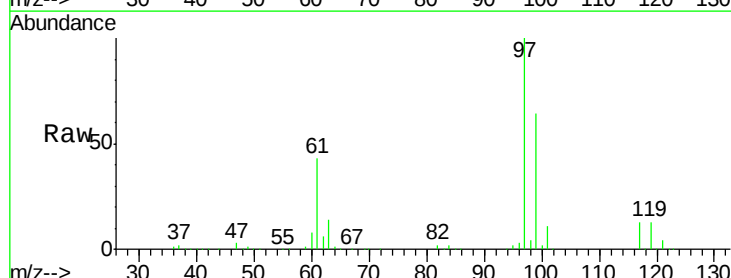
Manual Integrations
APPROVED

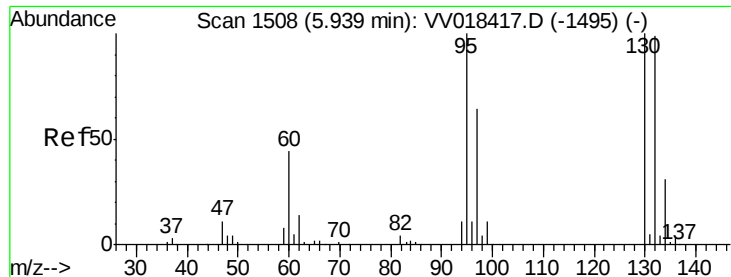
MMDadoda
9/30/2020 3:43:15 PM



#30
1,1,1-Trichloroethane
Concen: 119.709 ug/L
RT: 4.63 min Scan# 1100
Delta R.T. -0.01 min
Lab File: VV018431.D
Acq: 24 Sep 2020 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	499785		
99	64.5		51.6	77.4
61	42.4		34.9	52.3





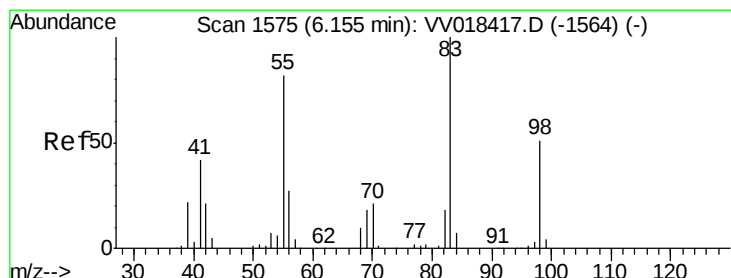
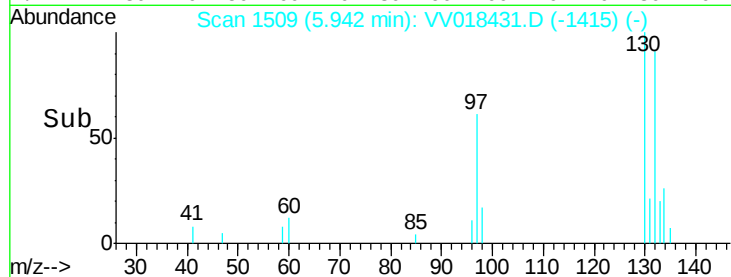
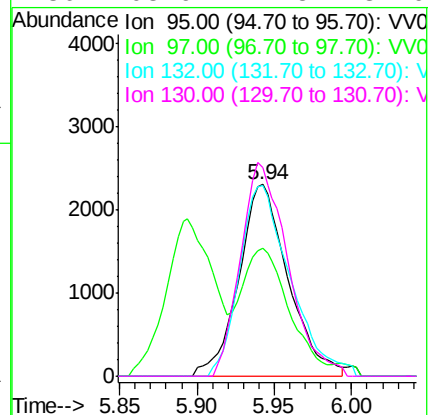
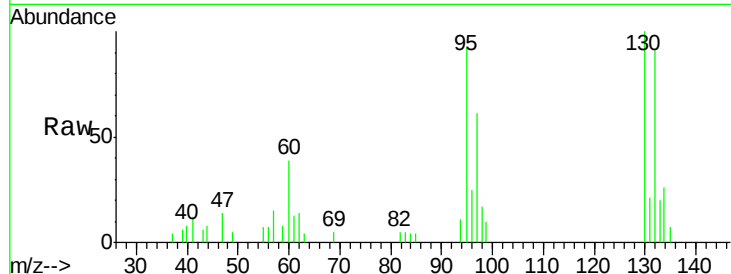
#34
 Trichloroethene
 Concen: 1.833 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.00 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Instrument :
 MSVOA_V
 ClientSampled :
 BG3X0

Tot Ion	95	Resp	5135
Ion	Ratio	Lower	Upper
95	100		
97	66.5	46.3	85.9
132	99.3	68.1	126.5
130	108.9	71.5	132.9

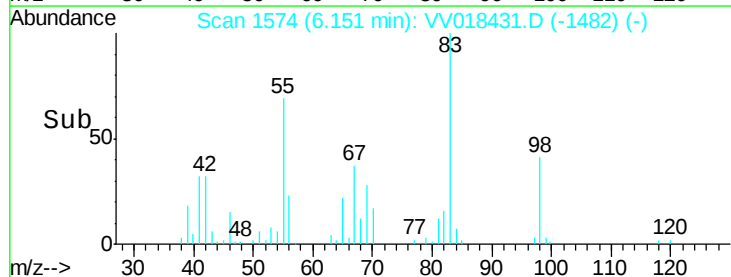
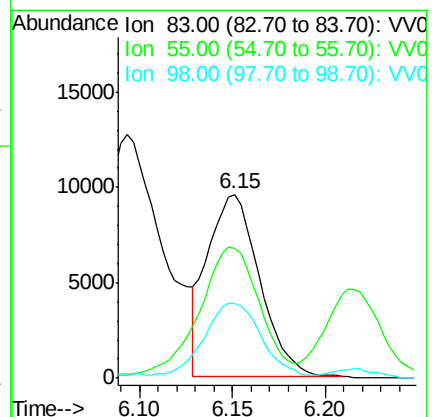
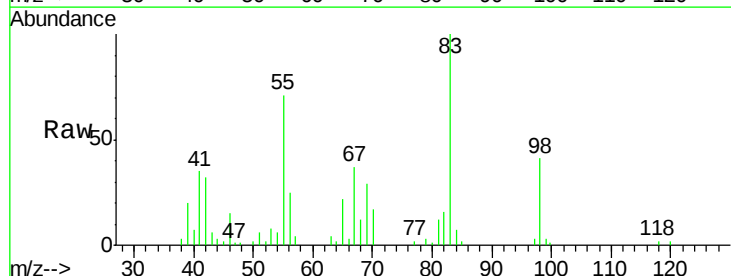
Manual Integrations
 APPROVED

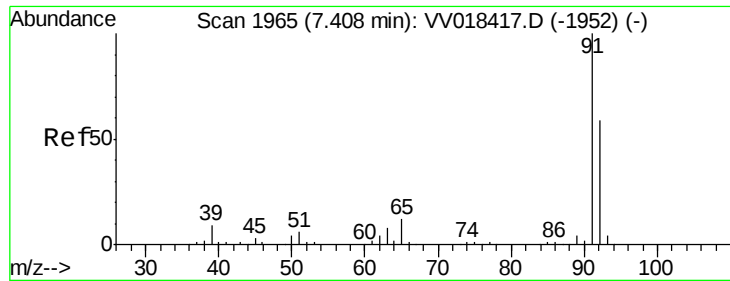
MMDadoda
 9/30/2020 3:43:15 PM



#35
 Methylcyclohexane
 Concen: 4.401 ug/L
 RT: 6.15 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Tgt Ion	83	Resp	18566
Ion	Ratio	Lower	Upper
83	100		
55	81.6	63.4	95.2
98	46.4	38.8	58.2





#42

Toluene

Concen: 765.609 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV018431.D

Acq: 24 Sep 2020 15:59

Instrument :

MSVOA_V

ClientSampleId :

BG3X0

Tot Ion: 91 Resp: 8333592

Ion Ratio Lower Upper

91 100

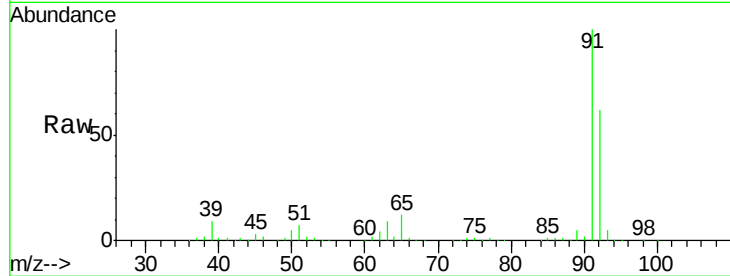
92 61.6 40.7 75.5

Manual Integrations

APPROVED

MMDadoda

9/30/2020 3:43:15 PM



Abundance Ion 91.00 (90.70 to 91.70): VV018431.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV018431.D (-1952) (-)

7.41

5000000

4000000

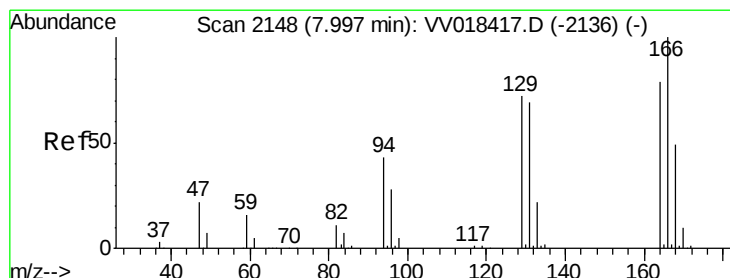
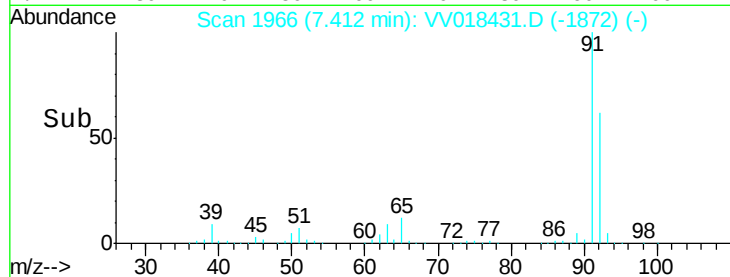
3000000

2000000

1000000

0

Time-->



#46

Tetrachloroethene

Concen: 0.927 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV018431.D

Acq: 24 Sep 2020 15:59

Tgt Ion:164 Resp: 2037

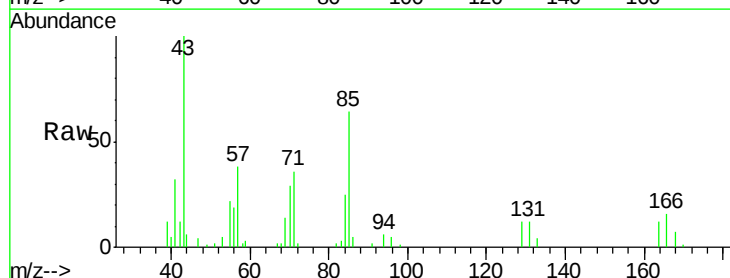
Ion Ratio Lower Upper

164 100

129 99.1 64.5 119.7

131 99.8 61.8 114.8

166 132.6 90.6 168.2



Abundance Ion 164.00 (163.70 to 164.70): VV018431.D (-2055) (-)

Ion 129.00 (128.70 to 129.70): VV018431.D (-2055) (-)

Ion 131.00 (130.70 to 131.70): VV018431.D (-2055) (-)

Ion 166.00 (165.70 to 166.70): VV018431.D (-2055) (-)

2000

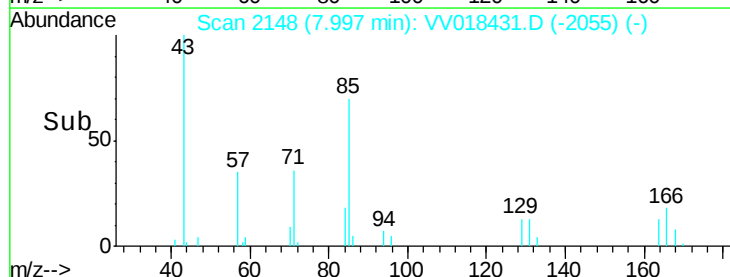
1500

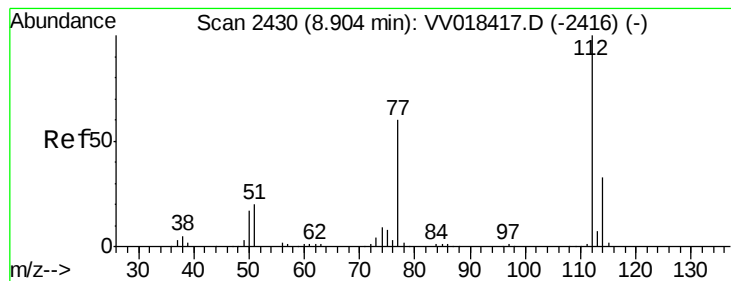
1000

500

0

Time-->





#51

Chlorobenzene

Concen: 3.593 ug/L

RT: 8.91 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VV018431.D

Acq: 24 Sep 2020 15:59

Instrument :

MSVOA_V

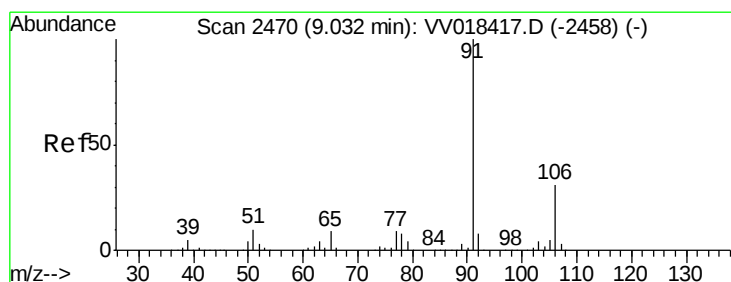
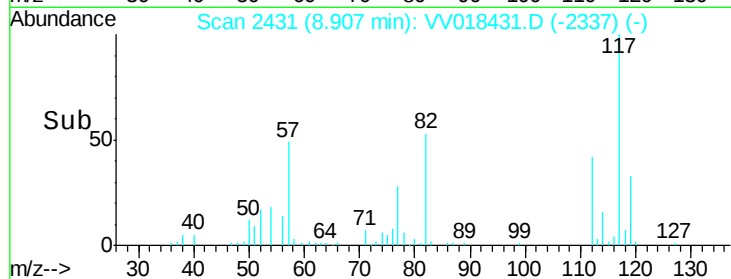
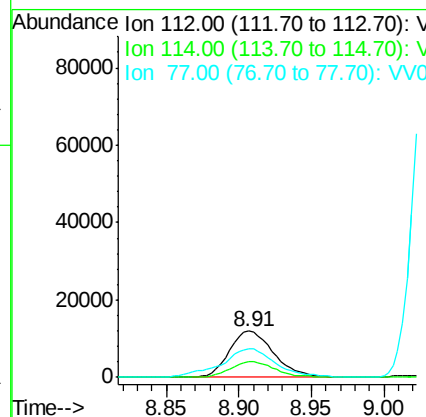
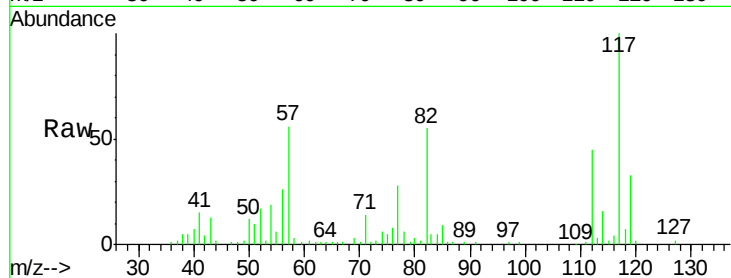
ClientSampled :

BG3X0

Tot Ion:	112	Resp:	25399
Ion Ratio	Lower	Upper	
112	100		
114	34.3	22.6	42.0
77	62.4	48.0	72.0

Manual Integrations
APPROVED

MMDadoda
9/30/2020 3:43:15 PM



#52

Ethylbenzene

Concen: 197.269 ug/L

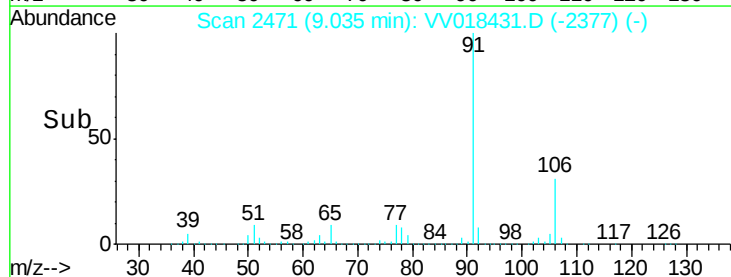
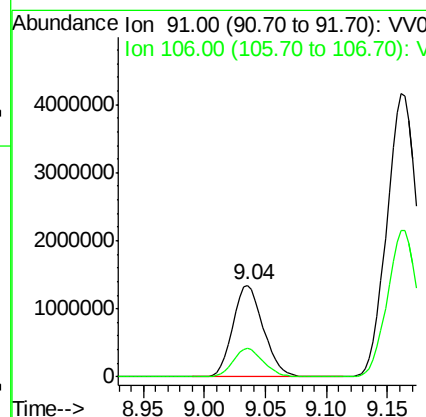
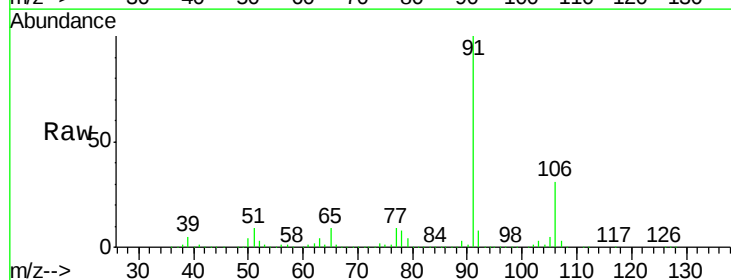
RT: 9.04 min Scan# 2471

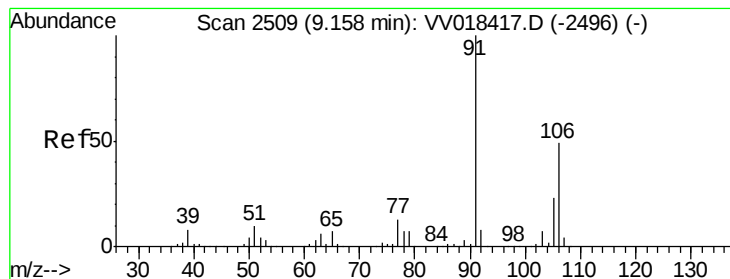
Delta R.T. 0.00 min

Lab File: VV018431.D

Acq: 24 Sep 2020 15:59

Tgt Ion:	91	Resp:	2344280
Ion Ratio	Lower	Upper	
91	100		
106	30.9	21.3	39.5





#53

m,p-Xylene

Concen: 840.768 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV018431.D

Acq: 24 Sep 2020 15:59

Instrument :

MSVOA_V

ClientSampleId :

BG3X0

Tot Ion:106 Resp: 3729339

Ion Ratio Lower Upper

106 100

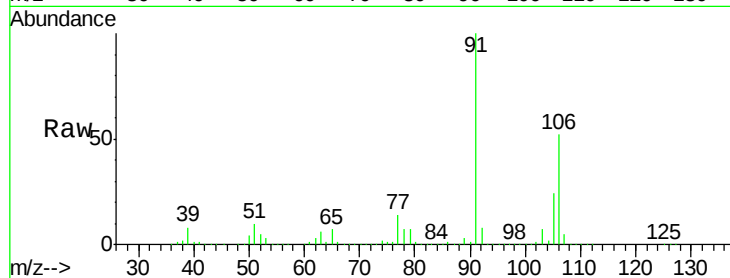
91 193.1 146.7 272.5

Manual Integrations

APPROVED

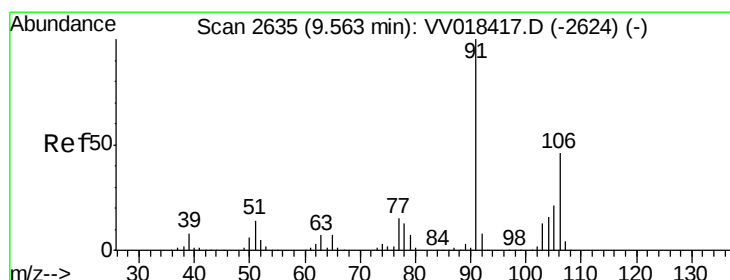
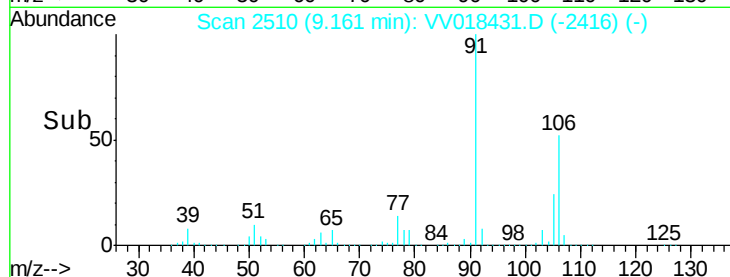
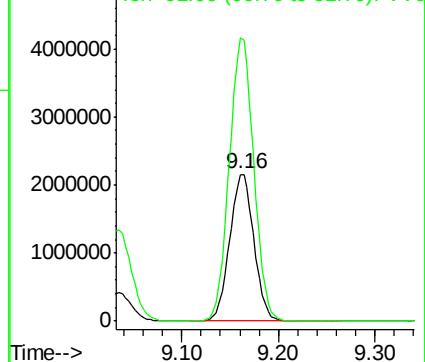
MMDadoda

9/30/2020 3:43:15 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 373.883 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. 0.01 min

Lab File: VV018431.D

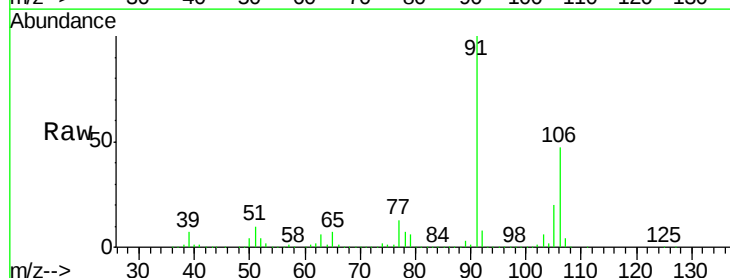
Acq: 24 Sep 2020 15:59

Tgt Ion:106 Resp: 1597691

Ion Ratio Lower Upper

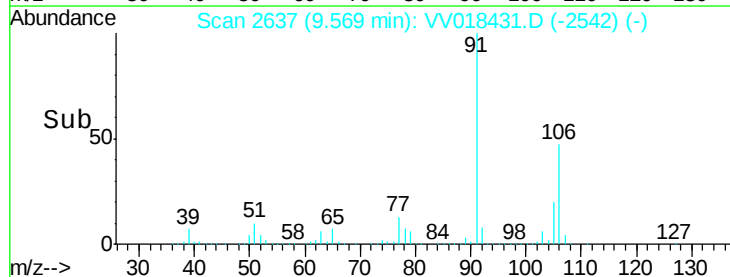
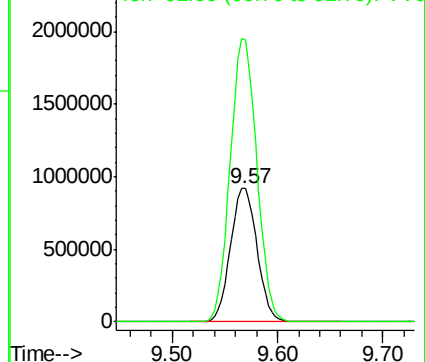
106 100

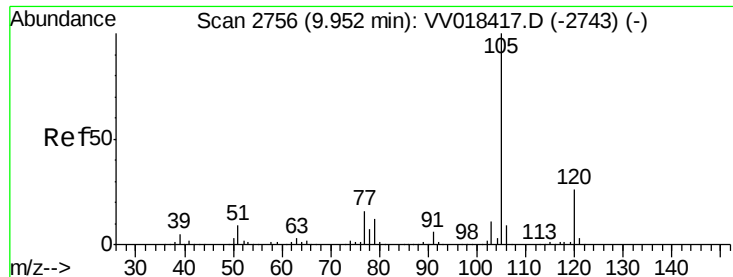
91 211.4 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





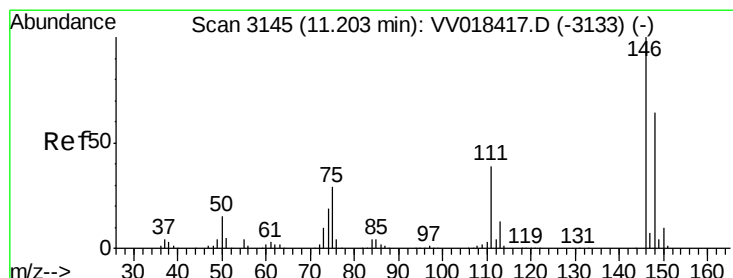
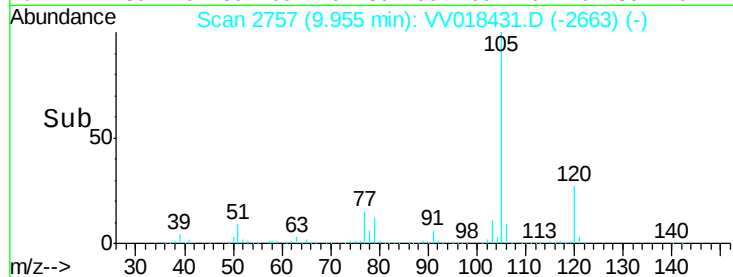
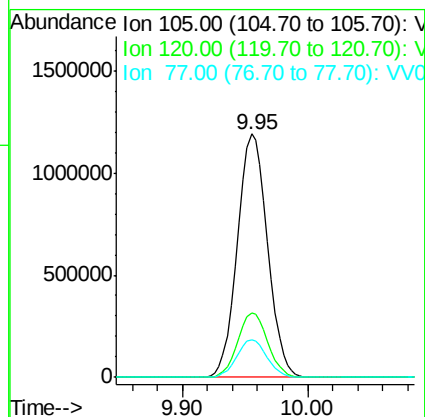
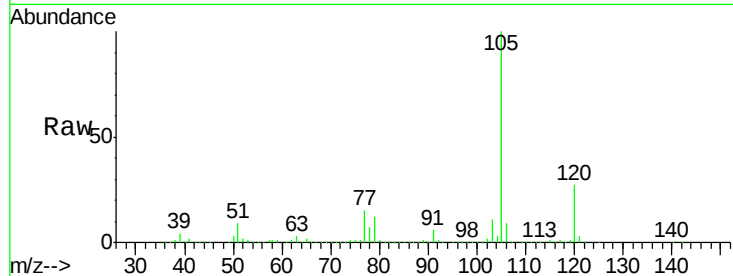
#56
Isopropylbenzene
Concen: 172.265 ug/L
RT: 9.95 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VV018431.D
Acq: 24 Sep 2020 15:59

Instrument :
MSVOA_V
ClientSampleId :
BG3X0

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.5	20.9	31.3
77	15.5	12.5	18.7

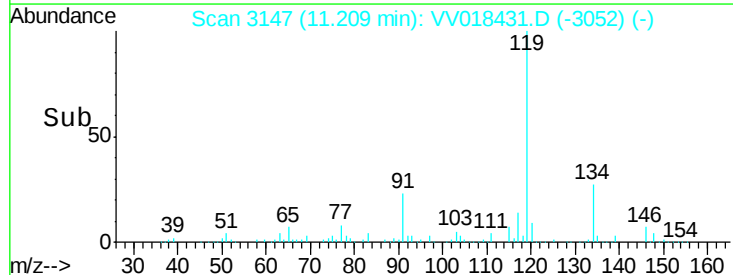
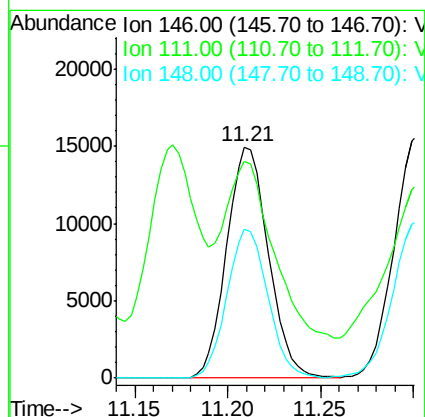
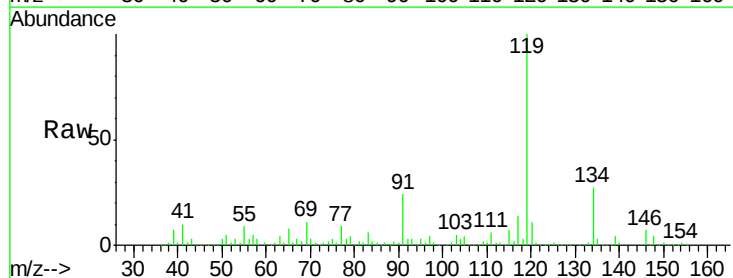
Manual Integrations
APPROVED

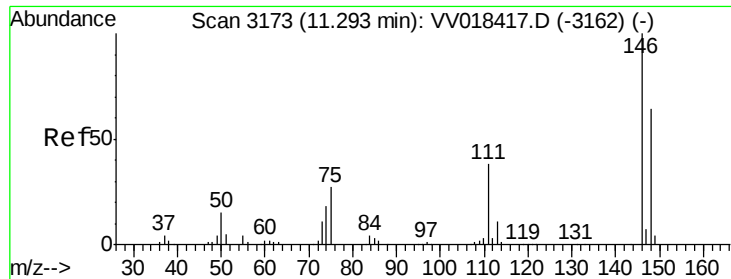
MMDadoda
9/30/2020 3:43:15 PM



#62
1,3-Dichlorobenzene
Concen: 3.997 ug/L
RT: 11.21 min Scan# 3147
Delta R.T. 0.01 min
Lab File: VV018431.D
Acq: 24 Sep 2020 15:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	93.9	27.6	51.2#
148	64.3	45.4	84.2





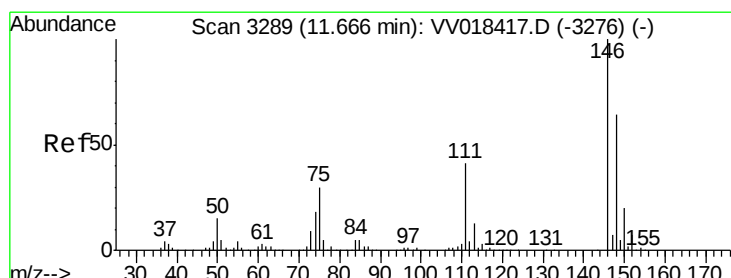
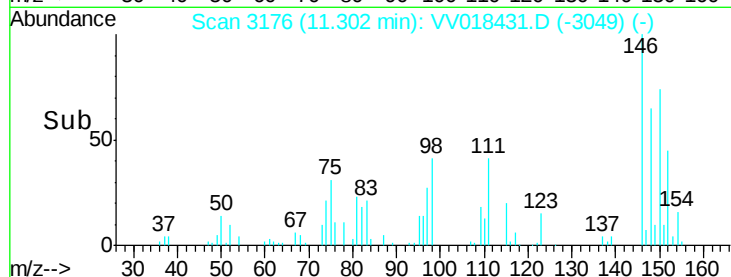
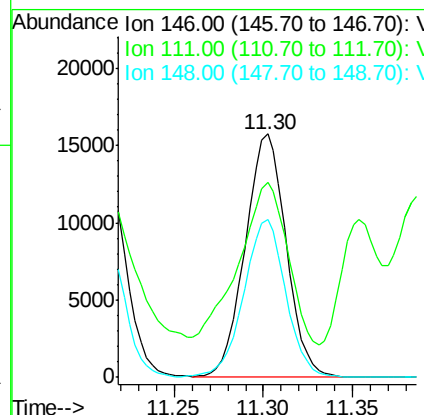
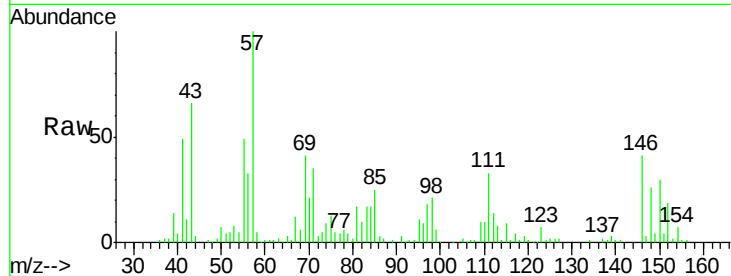
#63
 1,4-Dichlorobenzene
 Concen: 4.217 ug/L
 RT: 11.30 min Scan# 3176
 Delta R.T. 0.01 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X0

Tot Ion	Ratio	Lower	Upper
146	100		
111	79.9	27.1	50.3#
148	64.6	45.4	84.2

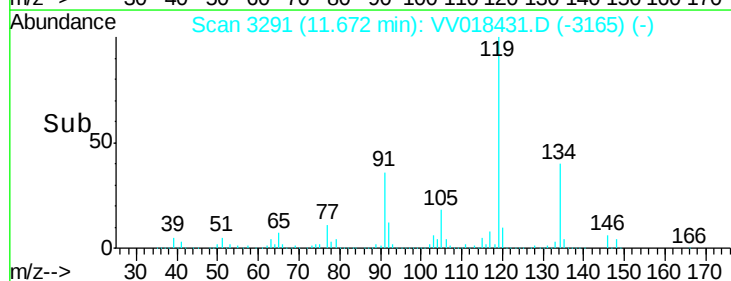
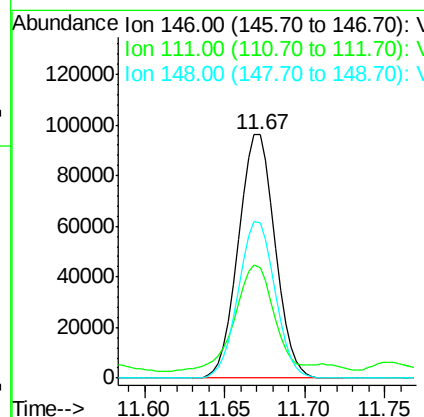
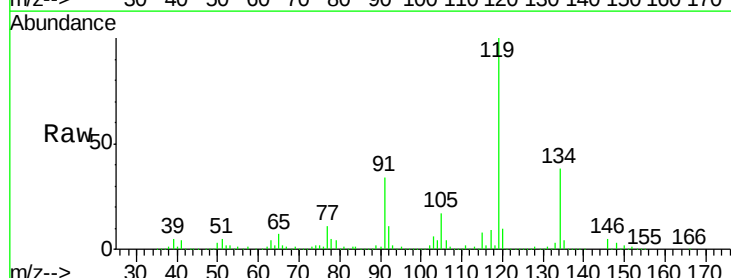
Manual Integrations
 APPROVED

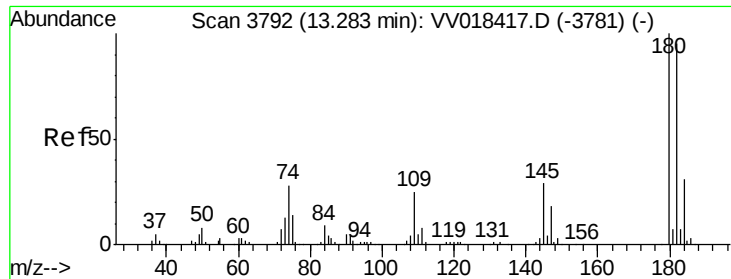
MMDadoda
 9/30/2020 3:43:15 PM



#65
 1,2-Dichlorobenzene
 Concen: 25.379 ug/L
 RT: 11.67 min Scan# 3291
 Delta R.T. 0.01 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.3	32.8	49.2
148	63.6	50.7	76.1





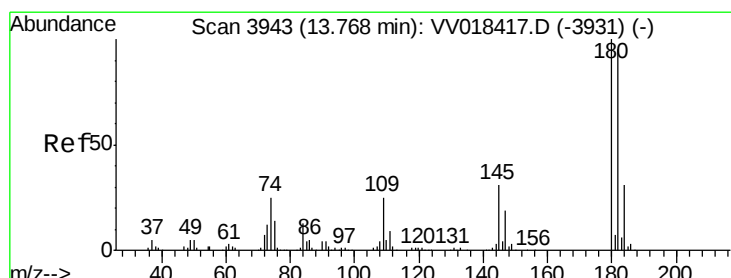
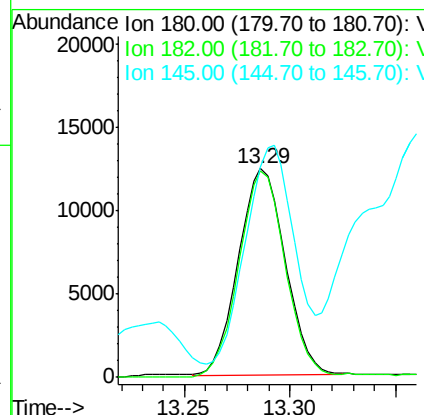
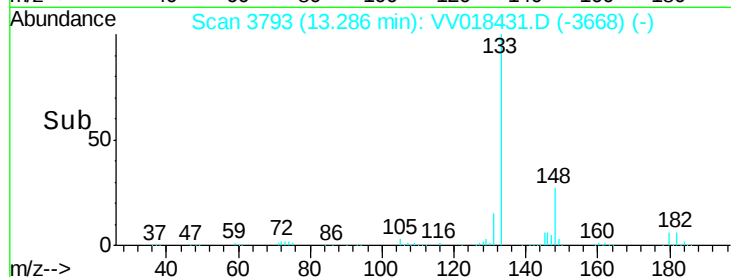
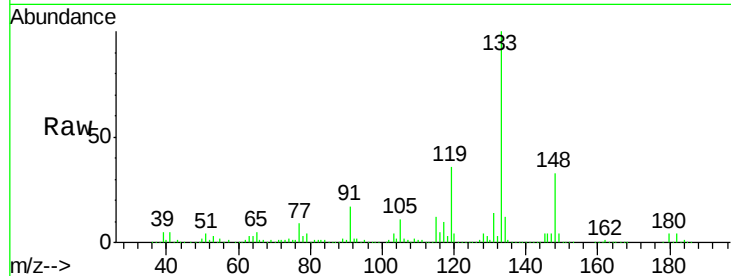
#68
 1,2,4-trichlorobenzene
 Concen: 4.636 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X0

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.5	77.4	116.2
145	110.2	23.2	34.8#

Manual Integrations
 APPROVED

MMDadoda
 9/30/2020 3:43:15 PM



#70
 1,2,3-Trichlorobenzene
 Concen: 3.005 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VV018431.D
 Acq: 24 Sep 2020 15:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.5	114.7
145	138.1	24.9	37.3#

