

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037398.D
 Acq On : 11 Aug 2021 20:35
 Operator : SY/AP
 Sample : M3157-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DDC-2-EFFLUENT

Manual Integrations
 APPROVED

apatel
 8/12/2021 10:17:17 AM

Quant Time: Aug 12 05:59:57 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 11 2021
 QLast Update : Wed Aug 11 09:01:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1115857	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3432066	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2882934	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2170204	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	33091	0.164	ppbv	96
3) Chlorodifluoromethane	2.99	51	54791m	0.264	ppbv	
4) Chloromethane	3.14	50	37072	0.485	ppbv	98
9) Propene	3.02	41	60174m	0.852	ppbv	
11) Trichlorofluoromethane	3.95	101	38340m	0.226	ppbv	
13) Ethanol	3.60	45	429105	50.328	ppbv	100
15) Acetone	3.84	43	1119462	10.530	ppbv	96
19) Isopropyl Alcohol	3.97	45	158939m	2.597	ppbv	
20) Methylene Chloride	4.34	84	864054	14.967	ppbv	92
26) Hexane	5.68	57	1420848	10.308	ppbv #	44
29) Chloroform	5.74	83	26809m	0.136	ppbv	
34) 2-Butanone	5.24	43	238227	1.827	ppbv	95
35) Carbon Tetrachloride	7.02	117	14440m	0.075	ppbv	
36) Benzene	6.88	78	96859m	0.356	ppbv	
41) Tetrahydrofuran	6.06	42	32690m	0.533	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	77759m	0.171	ppbv	
52) Tetrachloroethene	11.21	164	33669m	0.303	ppbv	
53) Toluene	9.80	91	265504	0.841	ppbv	99
59) m/p-Xylene	12.96	91	68039m	0.205	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	39340m	0.116	ppbv	

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

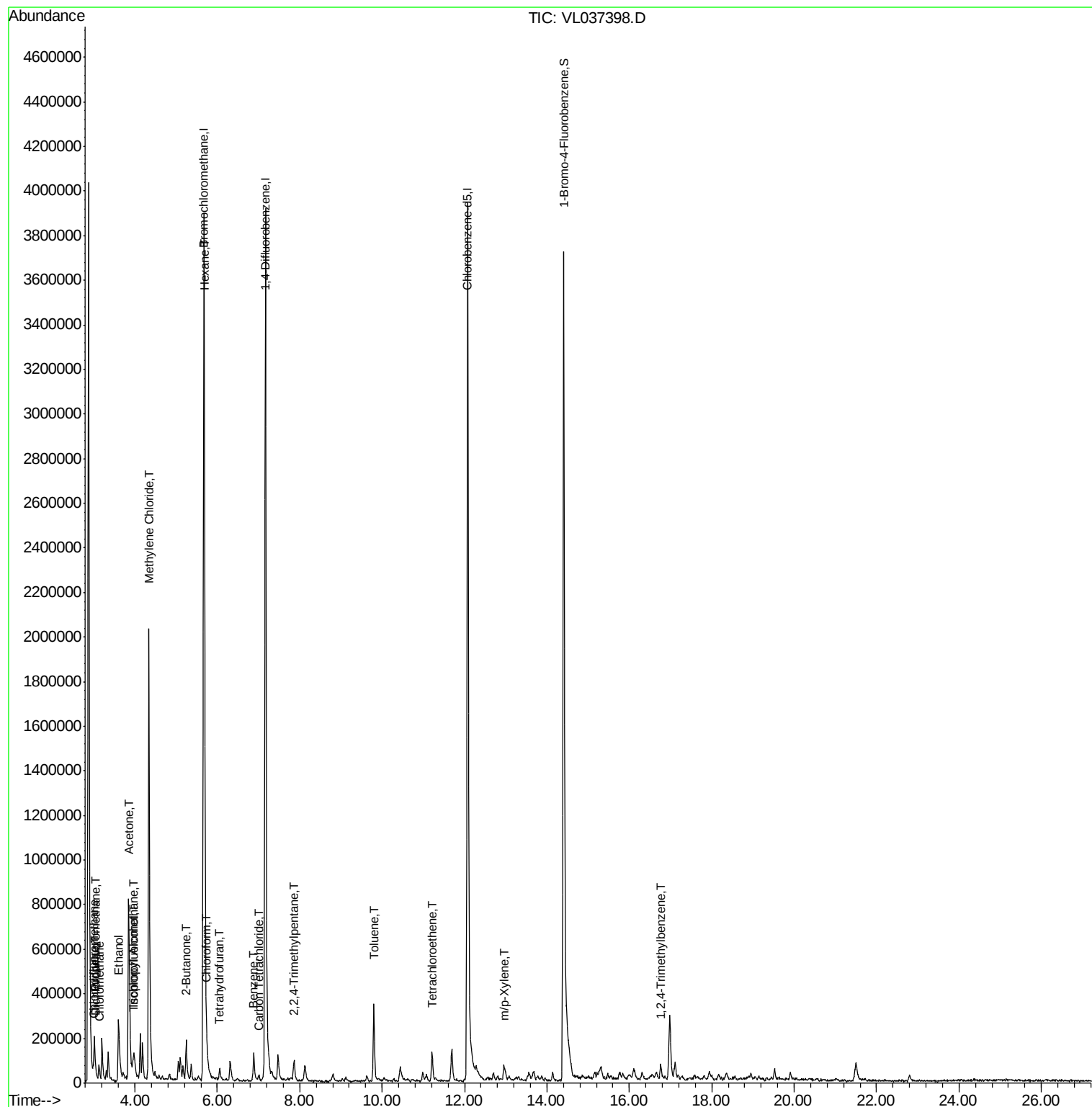
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081121\
Data File : VL037398.D
Acq On : 11 Aug 2021 20:35
Operator : SY/AP
Sample : M3157-07
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

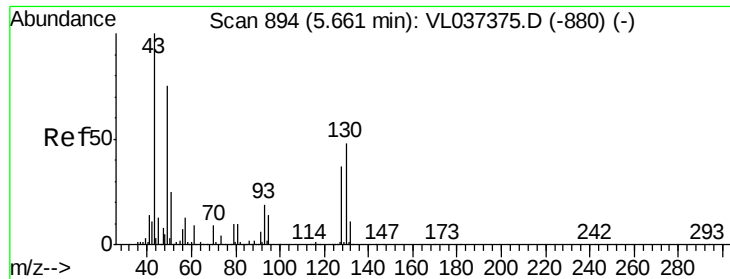
Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Manual Integrations
APPROVED

apatel
8/12/2021 10:17:17 AM

Quant Time: Aug 12 05:59:57 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 11 09:01:07 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL037398.D

Acq: 11 Aug 2021 20:35

Instrument :

MSVOA_L

ClientSampleId :

DDC-2-EFFLUENT

Tot Ion: 49 Resp: 1115857

Ion Ratio Lower Upper

49 100

128 55.6 28.1 84.4

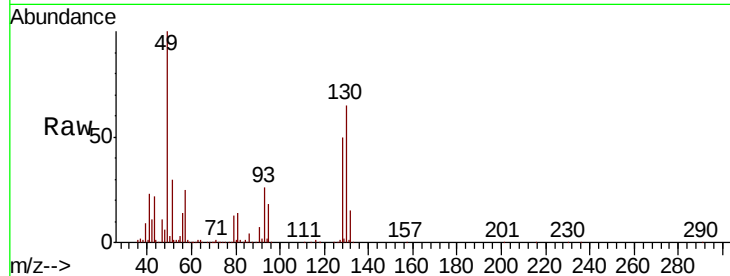
130 72.2 34.3 102.8

Manual Integrations

APPROVED

apatel

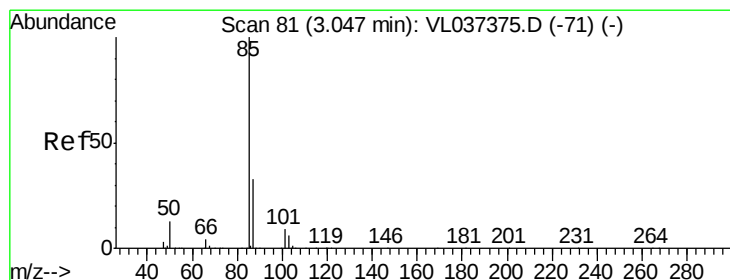
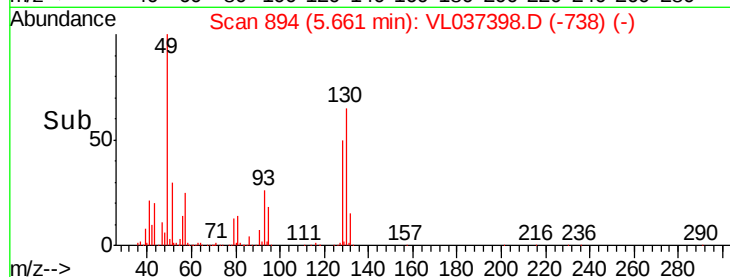
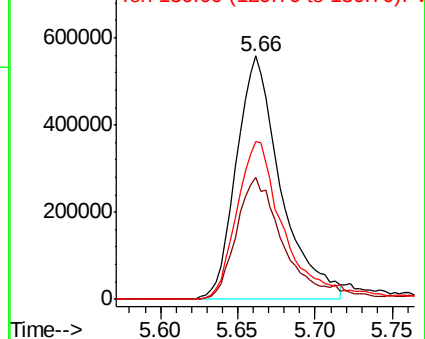
8/12/2021 10:17:17 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.164 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL037398.D

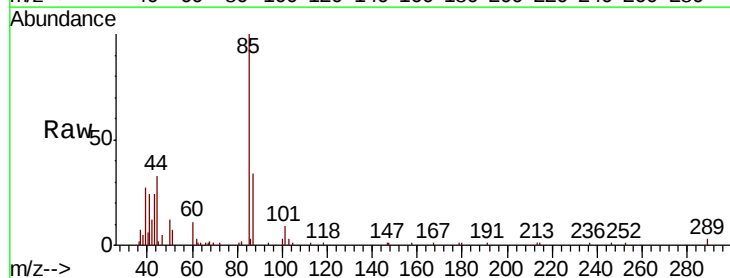
Acq: 11 Aug 2021 20:35

Tgt Ion: 85 Resp: 33091

Ion Ratio Lower Upper

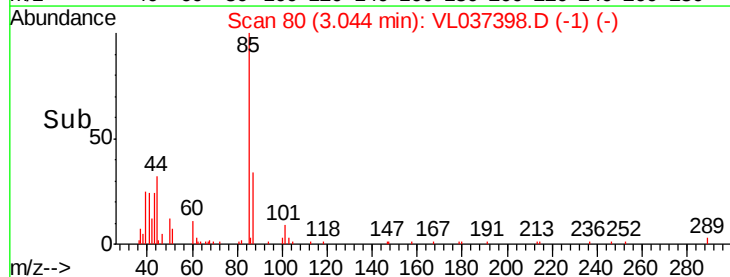
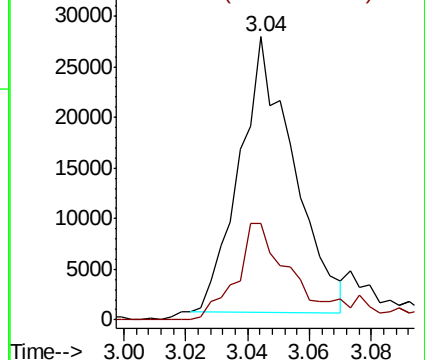
85 100

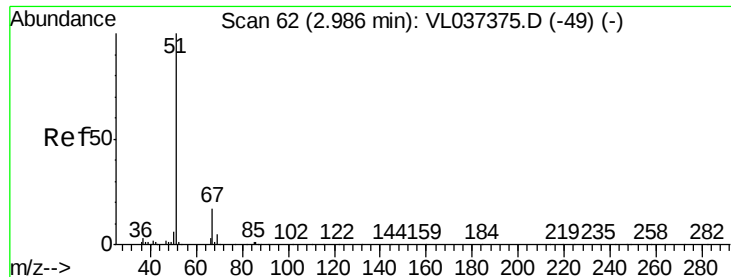
87 35.2 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





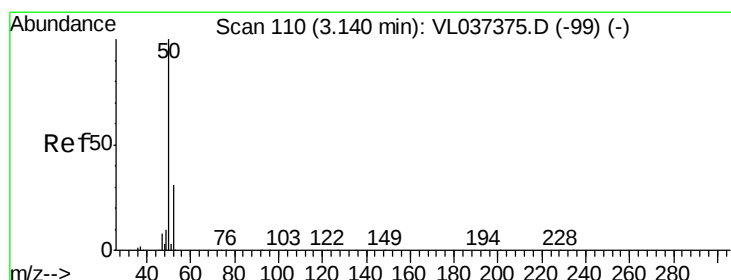
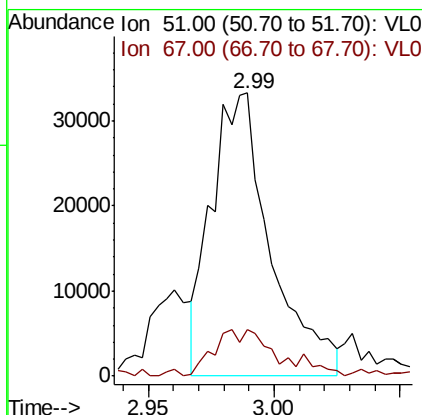
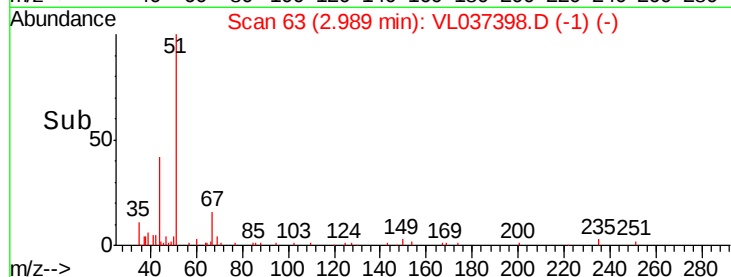
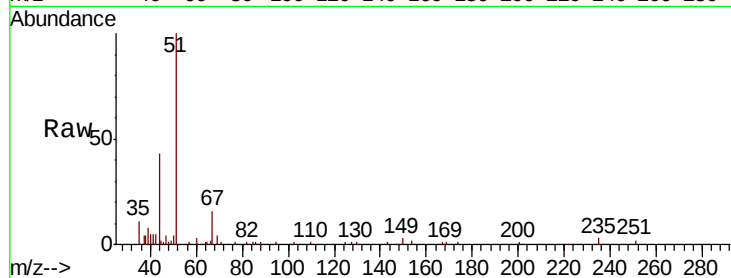
#3
Chlorodifluoromethane
Concen: 0.264 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.00 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.3	14.3	21.5

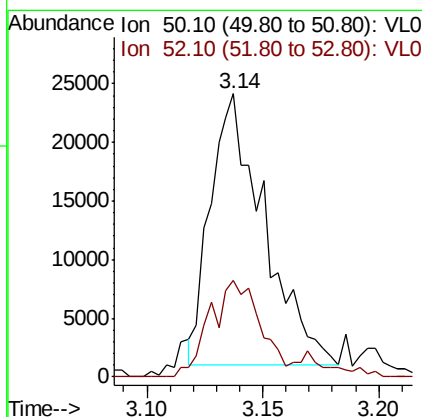
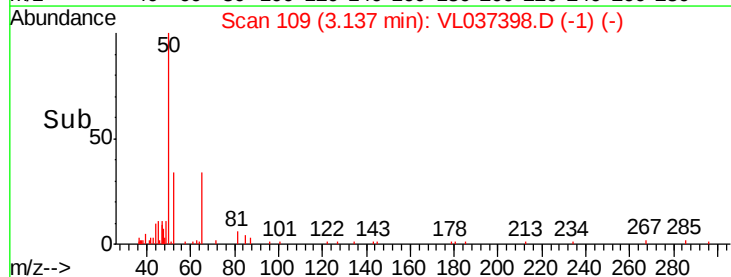
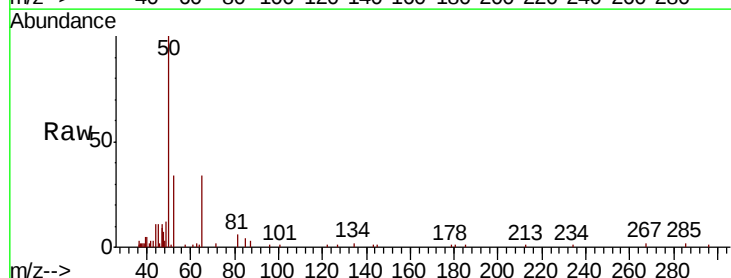
Manual Integrations
APPROVED

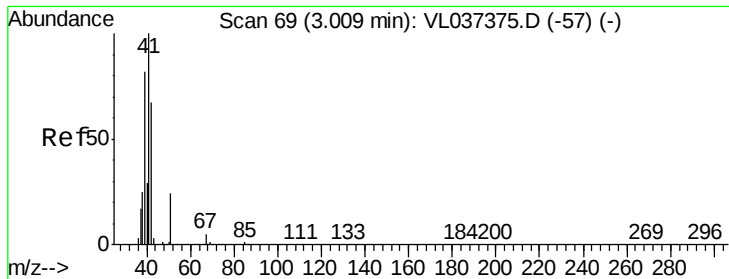
apatel
8/12/2021 10:17:17 AM



#4
Chloromethane
Concen: 0.485 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.00 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.0	37.4





#9

Propene

Concen: 0.852 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037398.D

Acq: 11 Aug 2021 20:35

Instrument :

MSVOA_L

ClientSampleId :

DDC-2-EFFLUENT

Tot Ion: 41 Resp: 60174

Ion Ratio Lower Upper

41 100

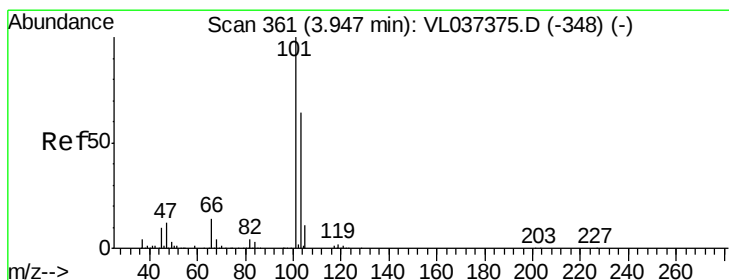
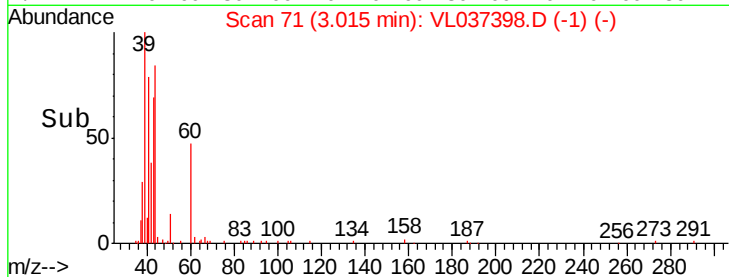
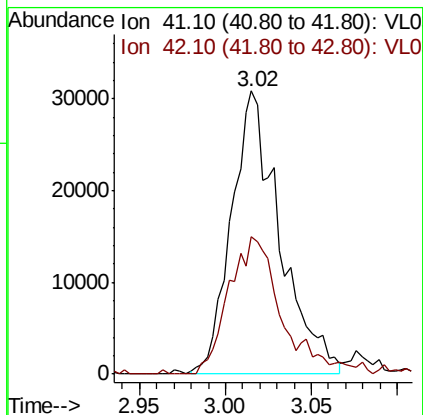
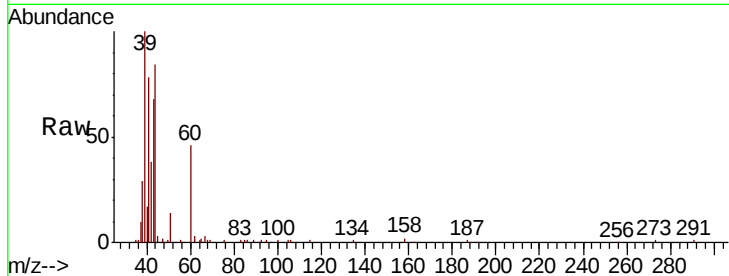
42 55.0 55.5 83.3#

Manual Integrations

APPROVED

apatel

8/12/2021 10:17:17 AM



#11

Trichlorofluoromethane

Concen: 0.226 ppbv m

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL037398.D

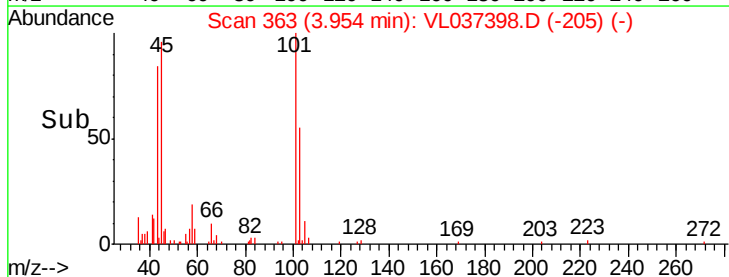
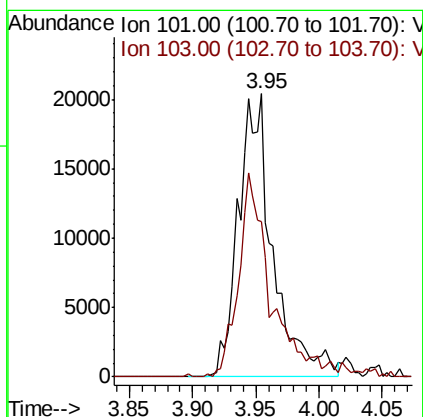
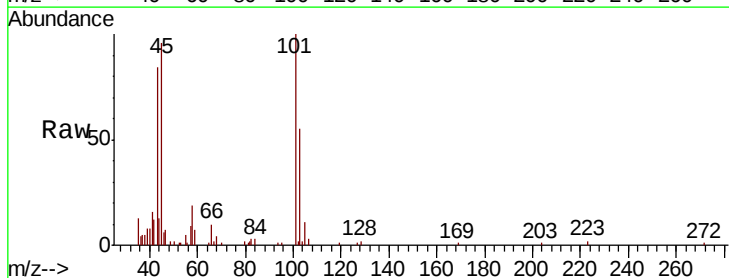
Acq: 11 Aug 2021 20:35

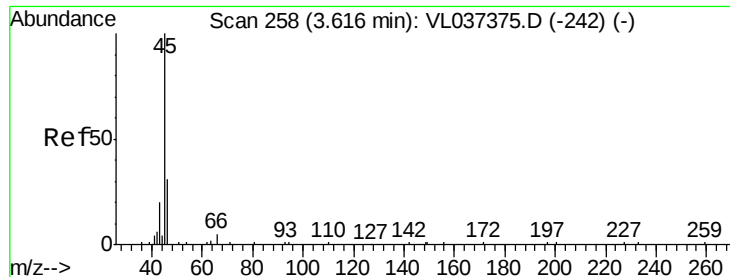
Tgt Ion: 101 Resp: 38340

Ion Ratio Lower Upper

101 100

103 55.0 51.2 76.8





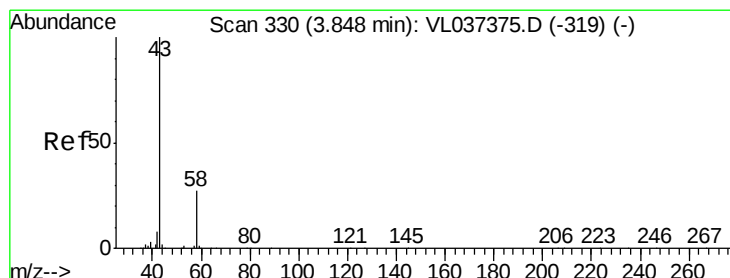
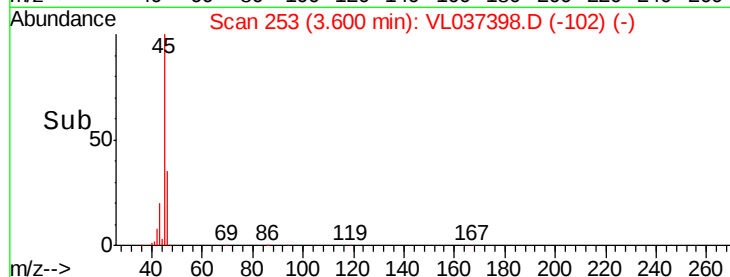
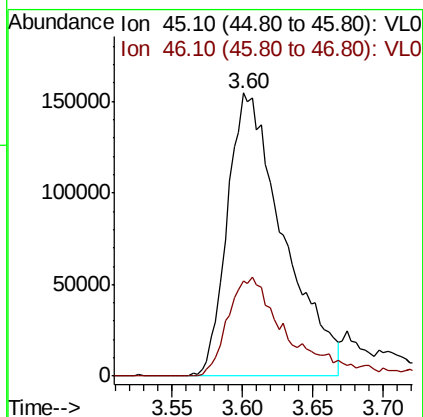
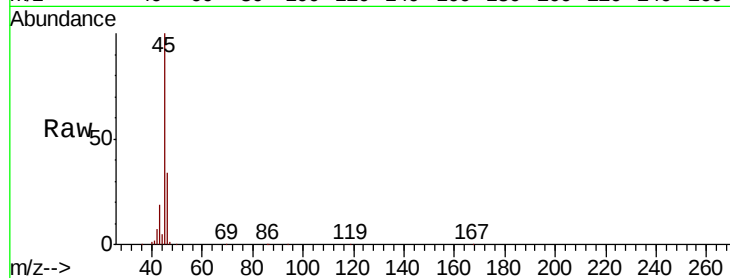
#13
Ethanol
Concen: 50.328 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.02 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.6	15.8	63.4

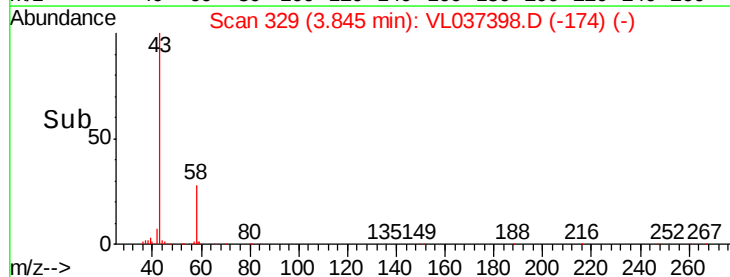
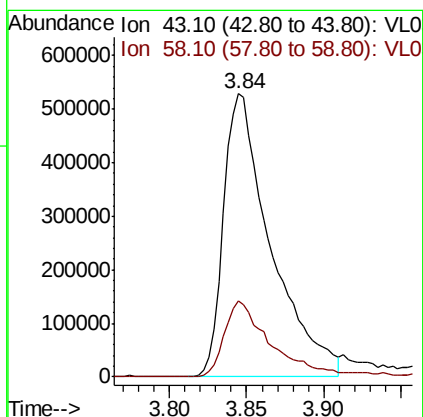
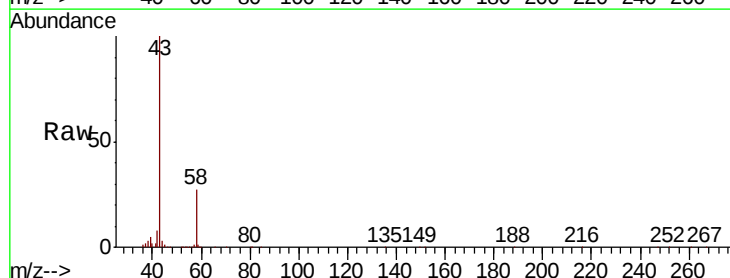
Manual Integrations
APPROVED

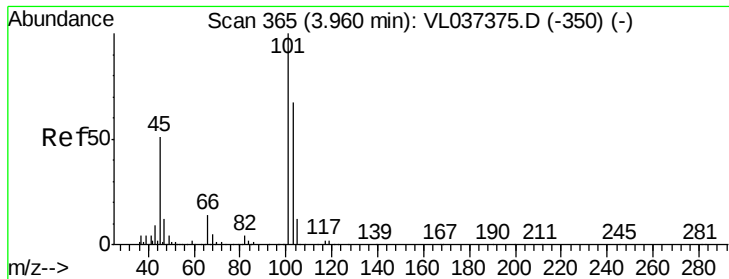
apatel
8/12/2021 10:17:17 AM



#15
Acetone
Concen: 10.530 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.8	24.6	37.0





#19

Isopropyl Alcohol

Concen: 2.597 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037398.D

Acq: 11 Aug 2021 20:35

Instrument :

MSVOA_L

ClientSampleId :

DDC-2-EFFLUENT

Tot Ion: 45 Resp: 158939

Ion Ratio Lower Upper

45 100

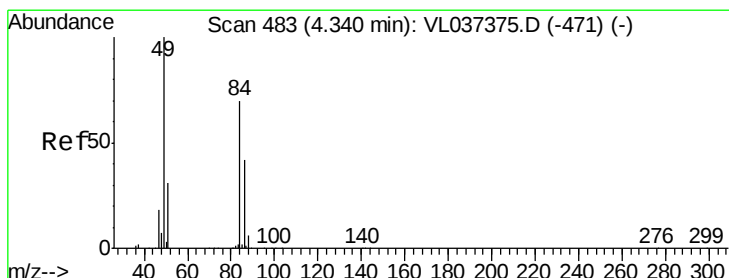
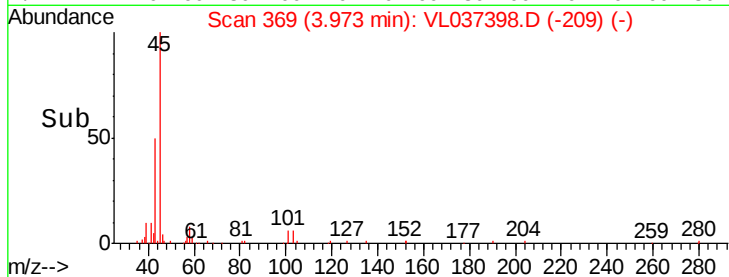
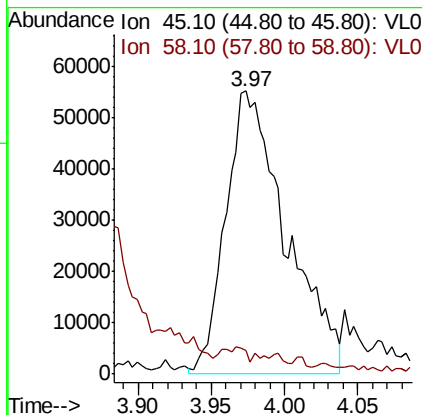
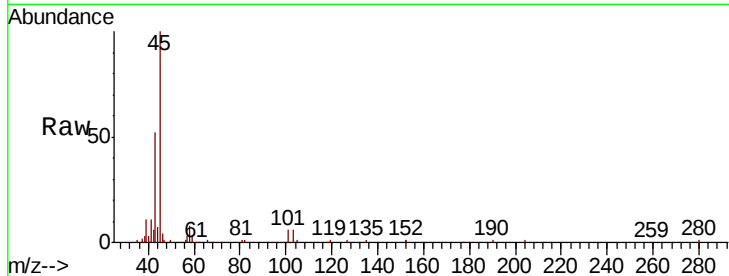
58 8.9 38.7 58.1#

Manual Integrations

APPROVED

apatel

8/12/2021 10:17:17 AM



#20

Methylene Chloride

Concen: 14.967 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL037398.D

Acq: 11 Aug 2021 20:35

Tgt Ion: 84 Resp: 864054

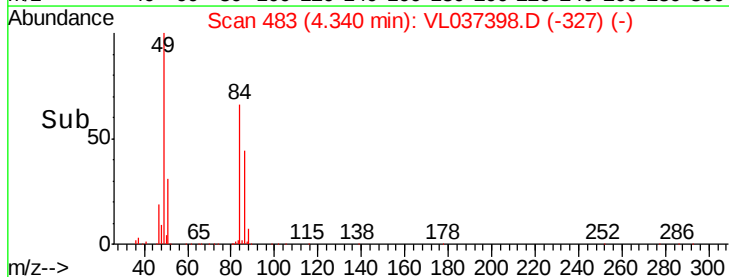
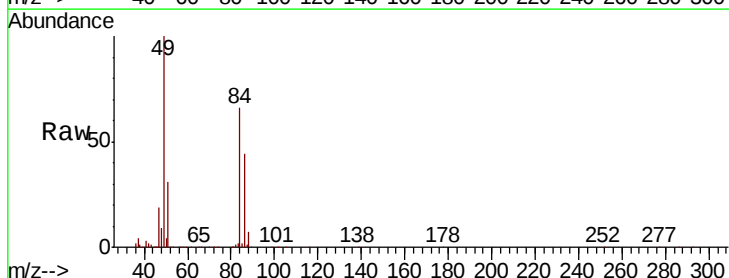
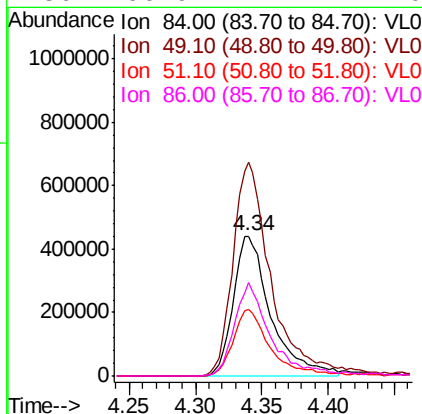
Ion Ratio Lower Upper

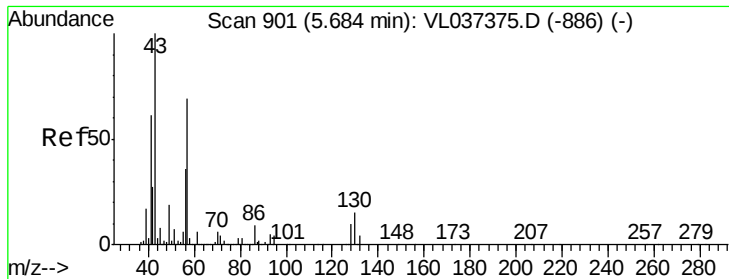
84 100

49 152.4 113.8 170.6

51 47.7 34.7 52.1

86 66.9 47.4 71.0





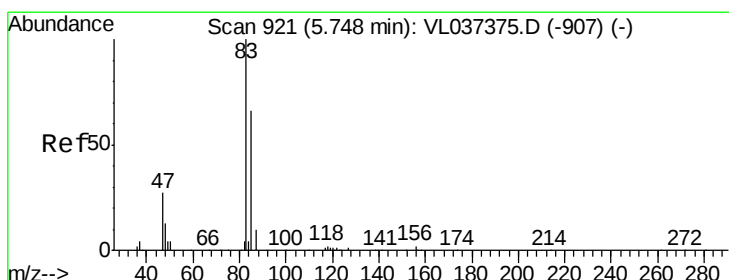
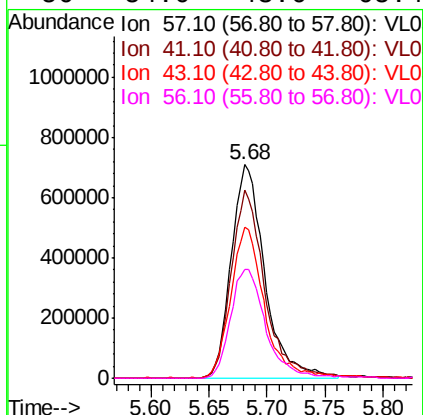
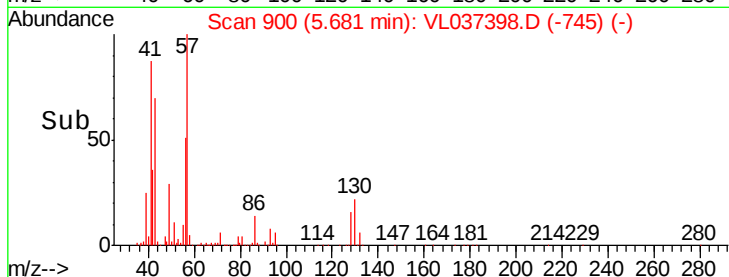
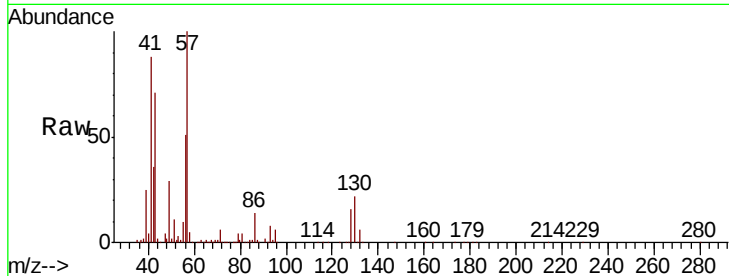
#26
Hexane
Concen: 10.308 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
57	100		
41	88.7	73.4	110.0
43	71.2	174.4	261.6#
56	54.0	43.6	65.4

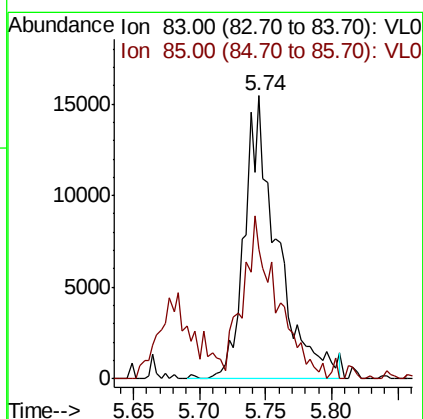
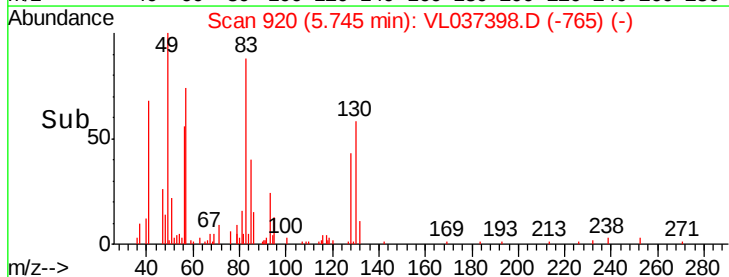
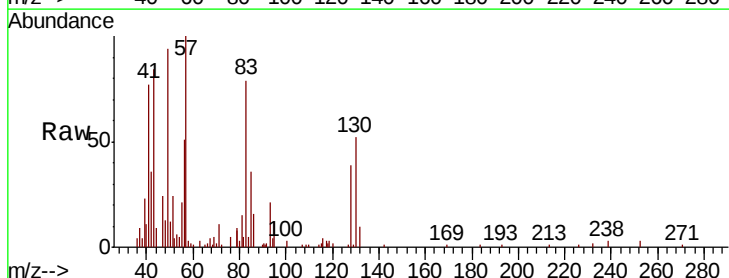
Manual Integrations
APPROVED

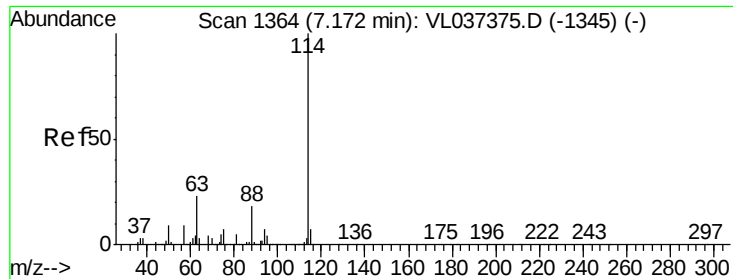
apatel
8/12/2021 10:17:17 AM



#29
Chloroform
Concen: 0.136 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	45.8	52.8	79.2#





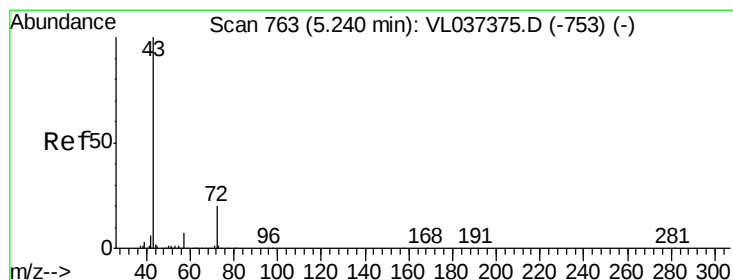
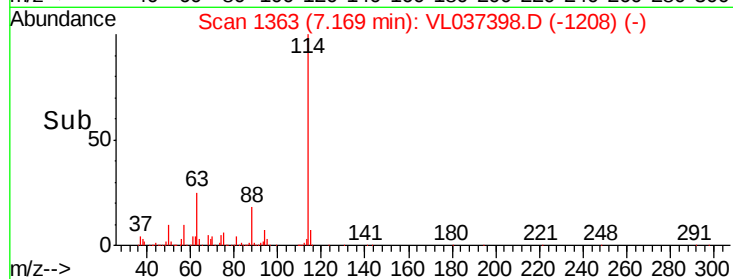
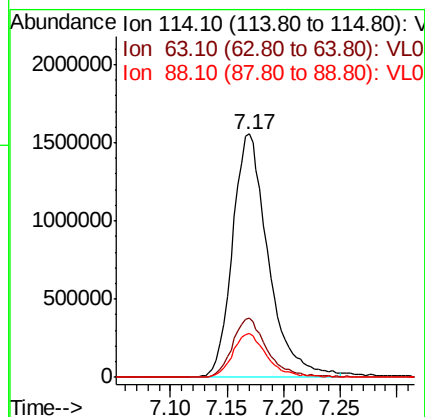
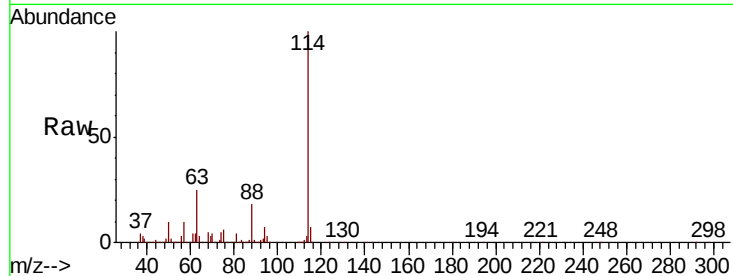
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL037398.D
 Acq: 11 Aug 2021 20:35

Instrument :
 MSVOA_L
 ClientSampleId :
 DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.5	29.3
88	17.7	14.3	21.5

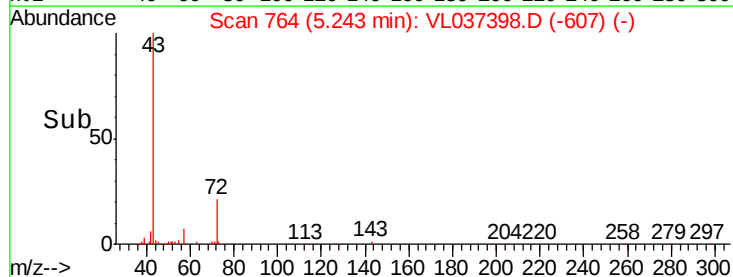
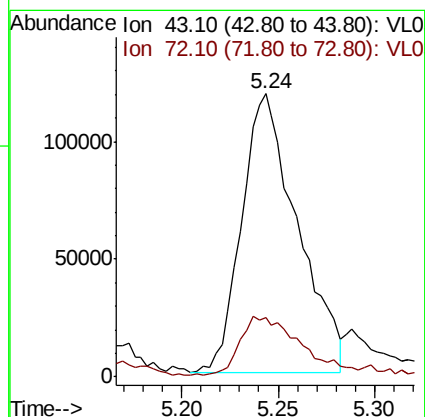
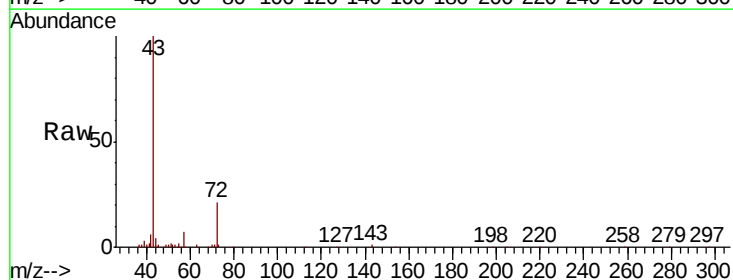
Manual Integrations
 APPROVED

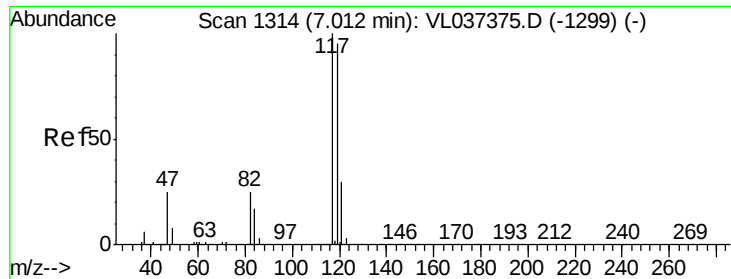
apatel
 8/12/2021 10:17:17 AM



#34
 2-Butanone
 Concen: 1.827 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: VL037398.D
 Acq: 11 Aug 2021 20:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.8	19.6	29.4





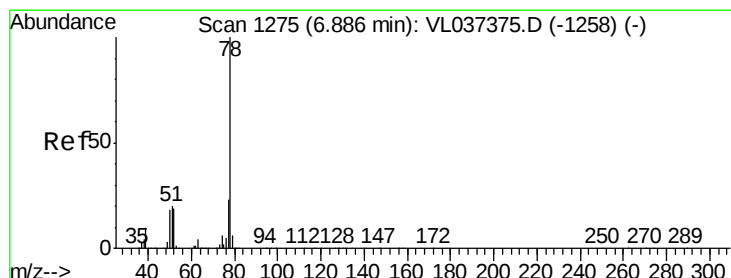
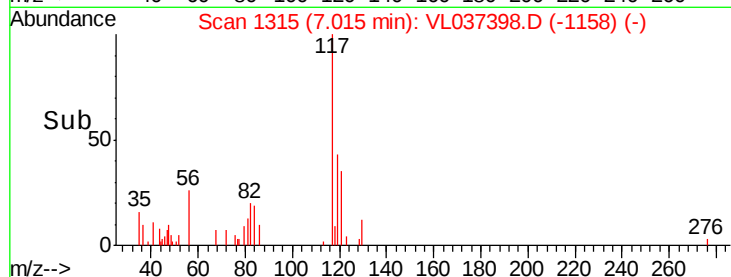
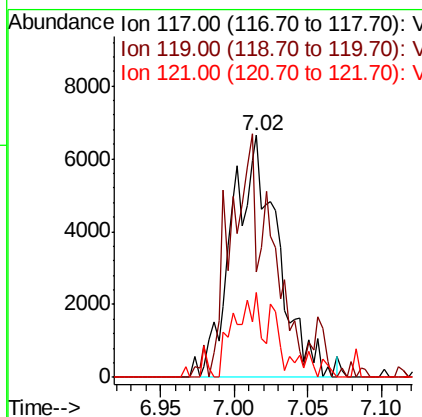
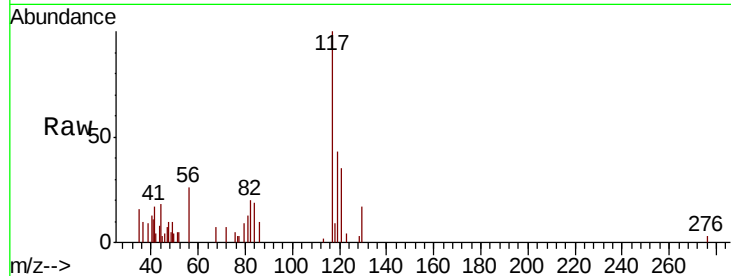
#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 7.02 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
119	43.3	76.1	114.1#
121	35.2	24.4	36.6

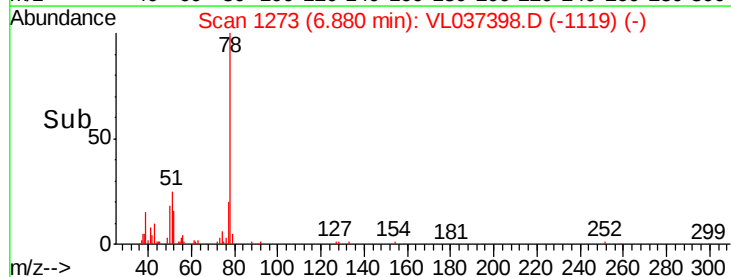
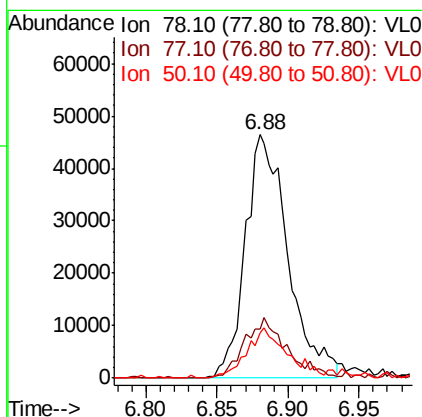
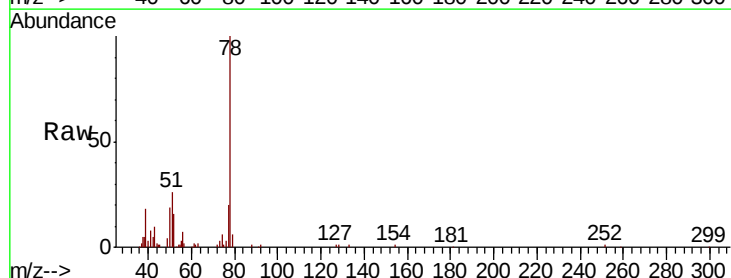
Manual Integrations
APPROVED

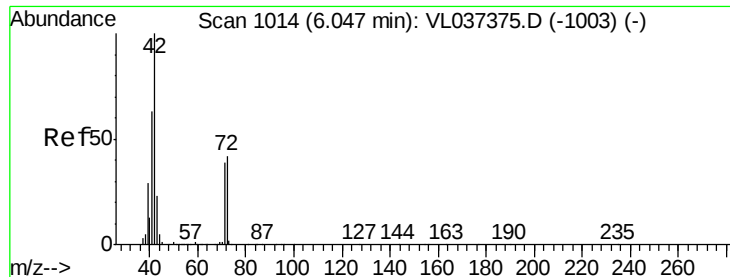
apatel
8/12/2021 10:17:17 AM



#36
Benzene
Concen: 0.356 ppbv m
RT: 6.88 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.2	18.6	28.0
50	18.8	14.3	21.5





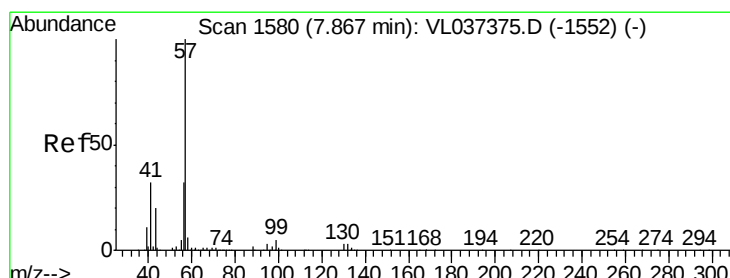
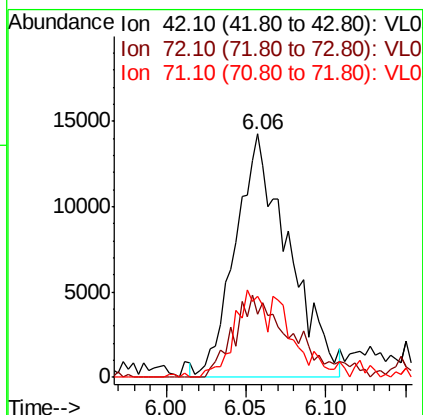
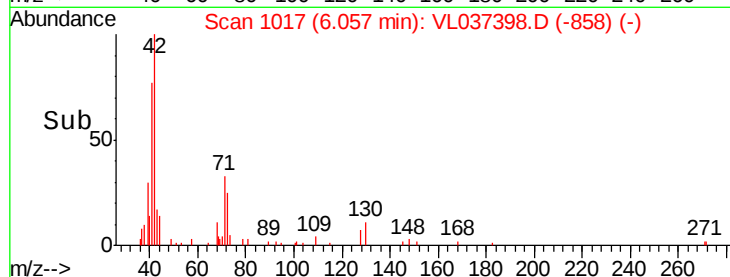
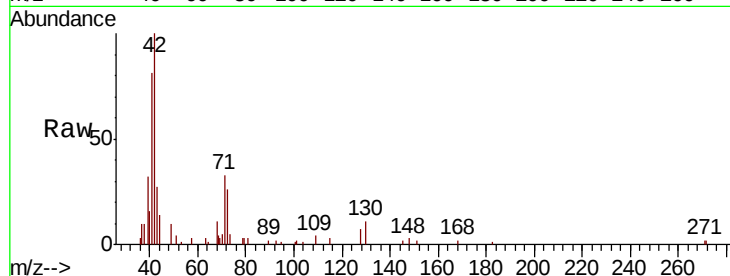
#41
Tetrahydrofuran
Concen: 0.533 ppbv m
RT: 6.06 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	34.4	51.6
71	38.0	32.3	48.5

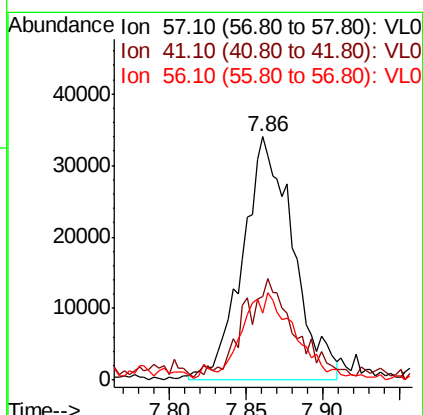
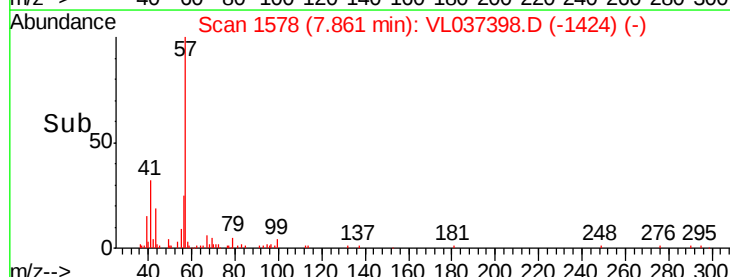
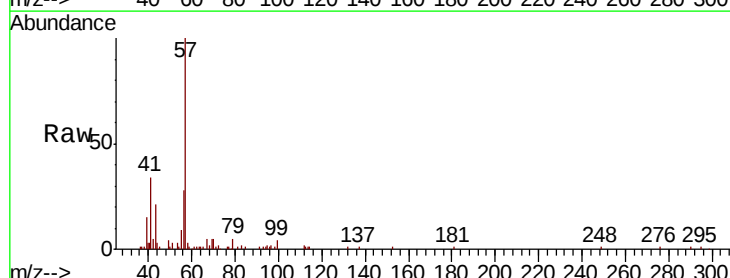
Manual Integrations
APPROVED

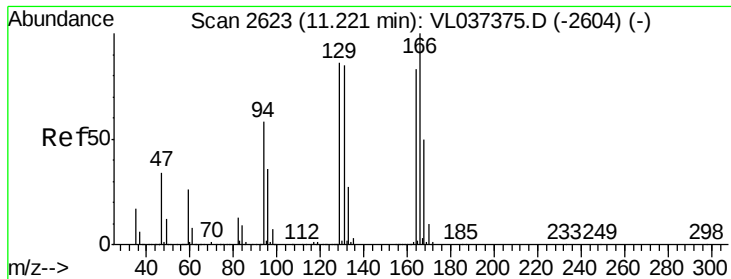
apatel
8/12/2021 10:17:17 AM



#44
2,2,4-Trimethylpentane
Concen: 0.171 ppbv m
RT: 7.86 min Scan# 1578
Delta R.T. -0.01 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Tgt Ion	Ratio	Lower	Upper
57	100		
41	44.2	26.1	39.1#
56	39.8	25.1	37.7#





#52

Tetrachloroethene

Concen: 0.303 ppbv m

RT: 11.21 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL037398.D

Acq: 11 Aug 2021 20:35

Instrument :

MSVOA_L

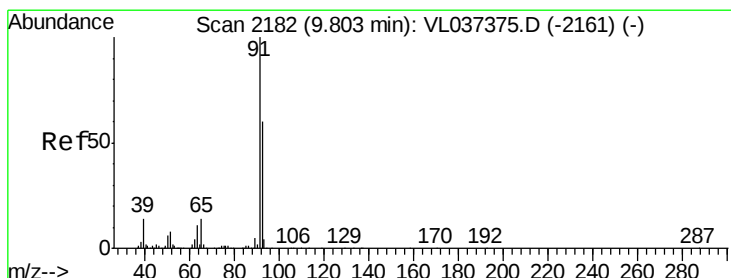
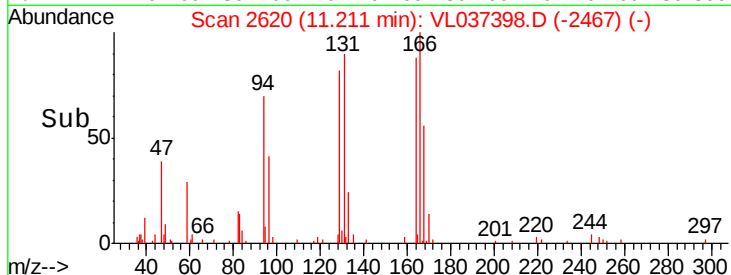
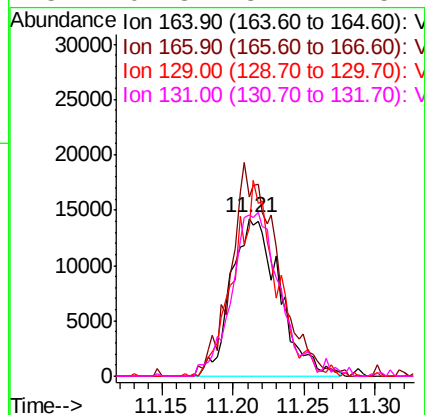
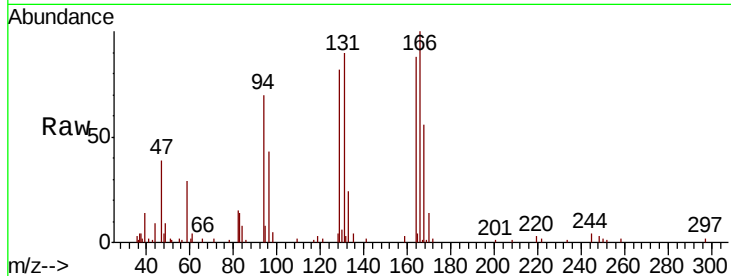
ClientSampleId :

DDC-2-EFFLUENT

Tot Ion:	164	Resp:	33669
Ion	Ratio	Lower	Upper
164	100		
166	113.8	96.5	144.7
129	93.8	83.2	124.8
131	102.3	82.2	123.2

Manual Integrations
APPROVED

apatel
8/12/2021 10:17:17 AM



#53

Toluene

Concen: 0.841 ppbv

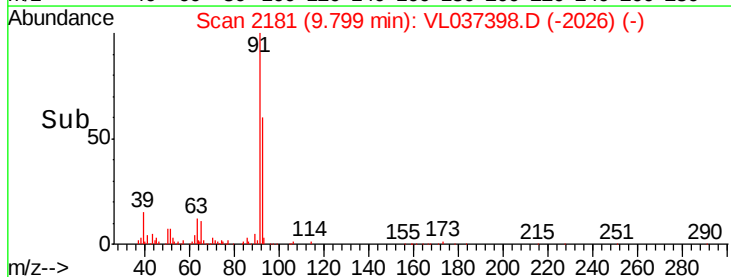
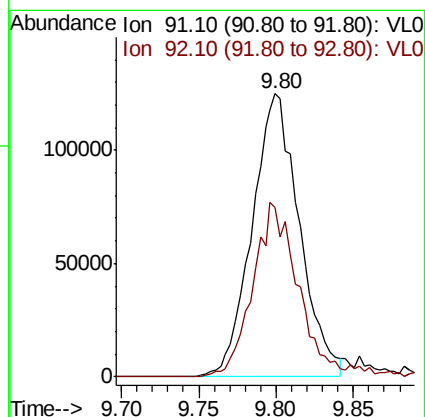
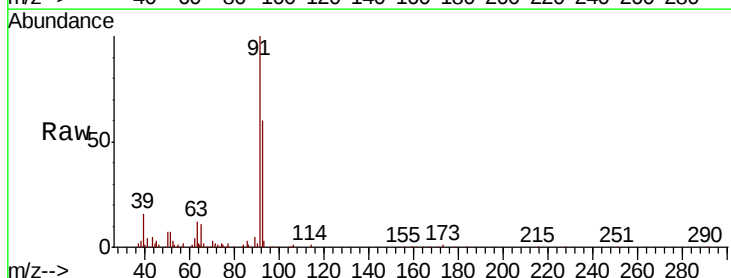
RT: 9.80 min Scan# 2181

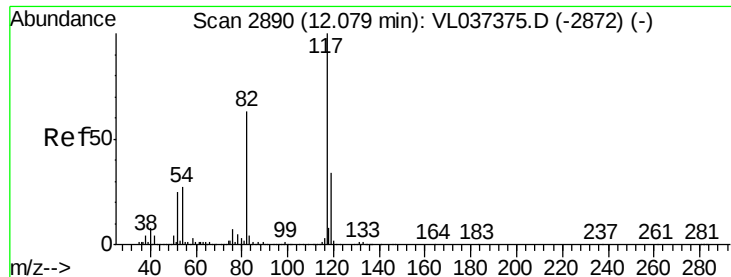
Delta R.T. -0.00 min

Lab File: VL037398.D

Acq: 11 Aug 2021 20:35

Tgt Ion:	91	Resp:	265504
Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.1	72.1





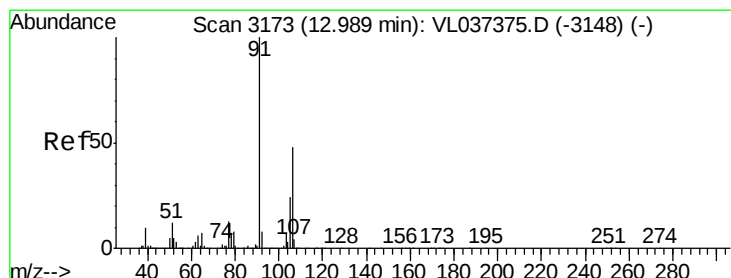
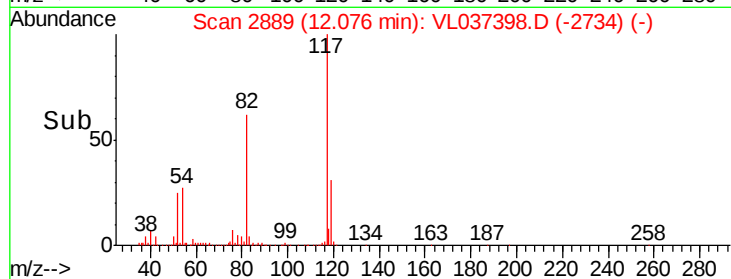
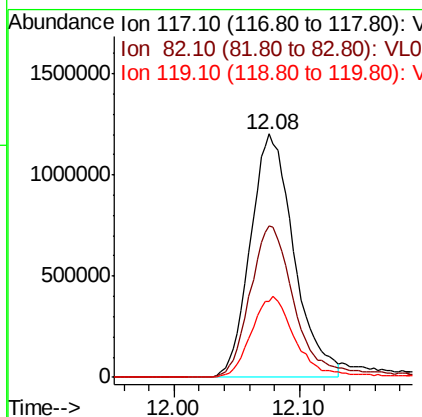
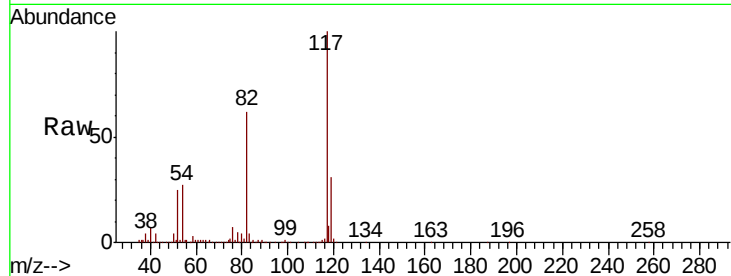
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.8	52.6	78.8
119	34.3	46.7	70.1

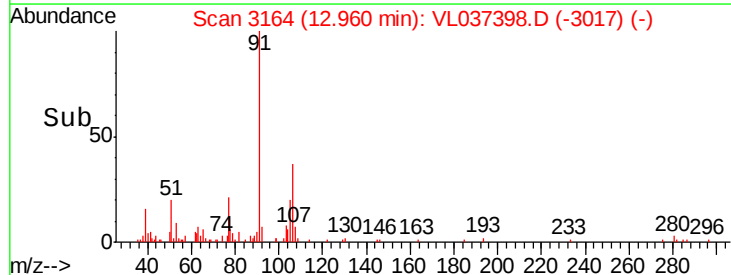
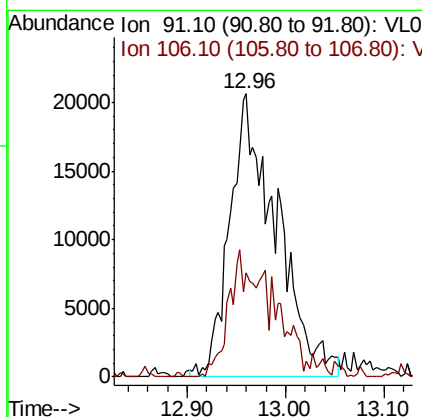
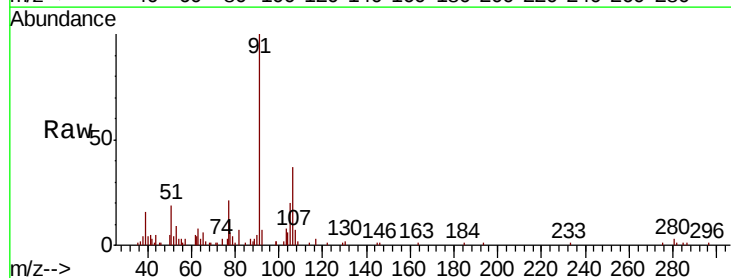
Manual Integrations
APPROVED

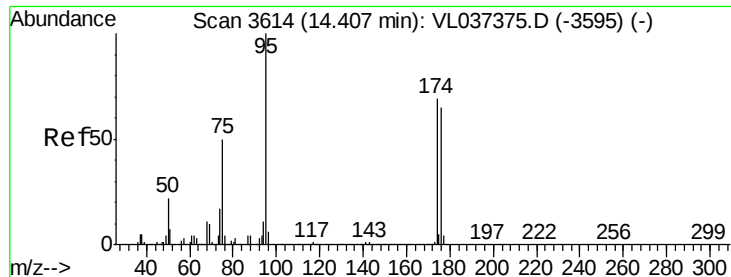
apatel
8/12/2021 10:17:17 AM



#59
m/p-Xylene
Concen: 0.205 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.03 min
Lab File: VL037398.D
Acq: 11 Aug 2021 20:35

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0





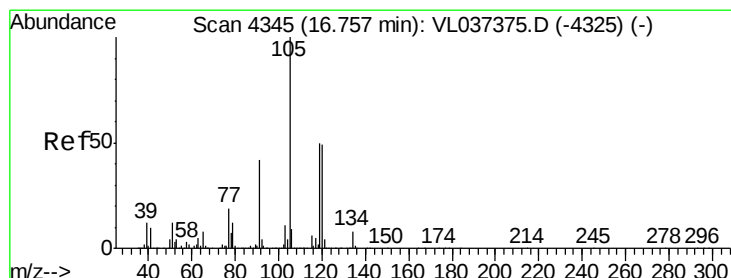
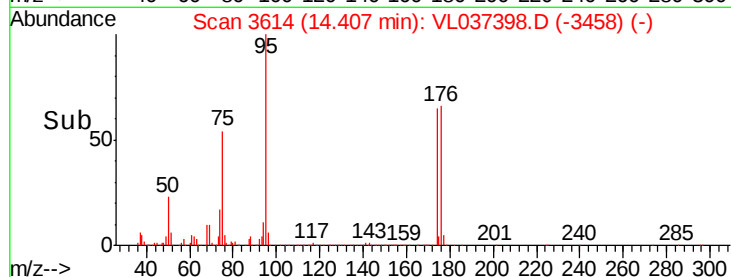
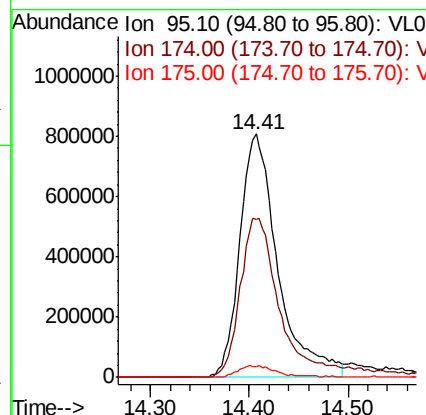
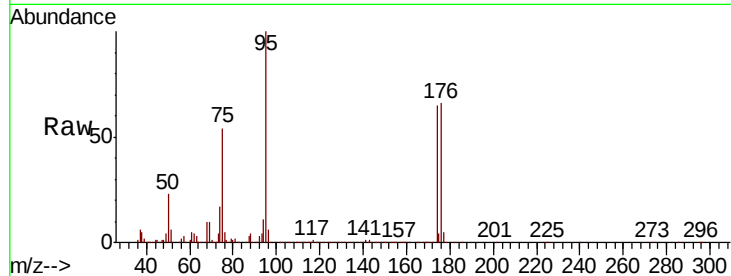
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.094 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. 0.00 min
 Lab File: VL037398.D
 Acq: 11 Aug 2021 20:35

Instrument :
 MSVOA_L
 ClientSampleId :
 DDC-2-EFFLUENT

Tot Ion: 95 Resp: 2170204
 Ion Ratio Lower Upper
 95 100
 174 72.4 58.3 87.5
 175 4.8 4.3 6.5

Manual Integrations
 APPROVED

apatel
 8/12/2021 10:17:17 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.116 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. -0.00 min
 Lab File: VL037398.D
 Acq: 11 Aug 2021 20:35

Tgt Ion: 105 Resp: 39340
 Ion Ratio Lower Upper
 105 100
 120 37.6 39.0 58.4#
 91 19.6 34.4 51.6#
 77 12.4 15.7 23.5#

