

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037623.D
 Acq On : 16 Sep 2021 20:08
 Operator : SY/AP
 Sample : M3277-01DL 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:27:17 PM

Quant Time: Sep 17 09:12:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1688951	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4823604	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4751168	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	4150591	12.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	120.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	1882528	15.994	ppbv	98
11) Trichlorofluoromethane	3.94	101	2757983	11.240	ppbv	99
20) Methylene Chloride	4.33	84	38827m	0.463	ppbv	
24) 1,1-Dichloroethane	4.99	63	1562577	8.983	ppbv	98
26) Hexane	5.67	57	2305479	11.419	ppbv #	46
35) Carbon Tetrachloride	7.00	117	1596553	5.851	ppbv	94
39) 1,2-Dichloropropane	7.59	63	1227377	7.967	ppbv	96
42) Bromodichloromethane	7.77	83	3828627	13.503	ppbv	97
72) 4-Ethyltoluene	15.82	105	10892051	18.138	ppbv	96
74) 1,2,4-Trimethylbenzene	16.74	105	9605246	16.292	ppbv #	79
77) 1,2-Dichlorobenzene	17.79	146	4983709	14.345	ppbv	99

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

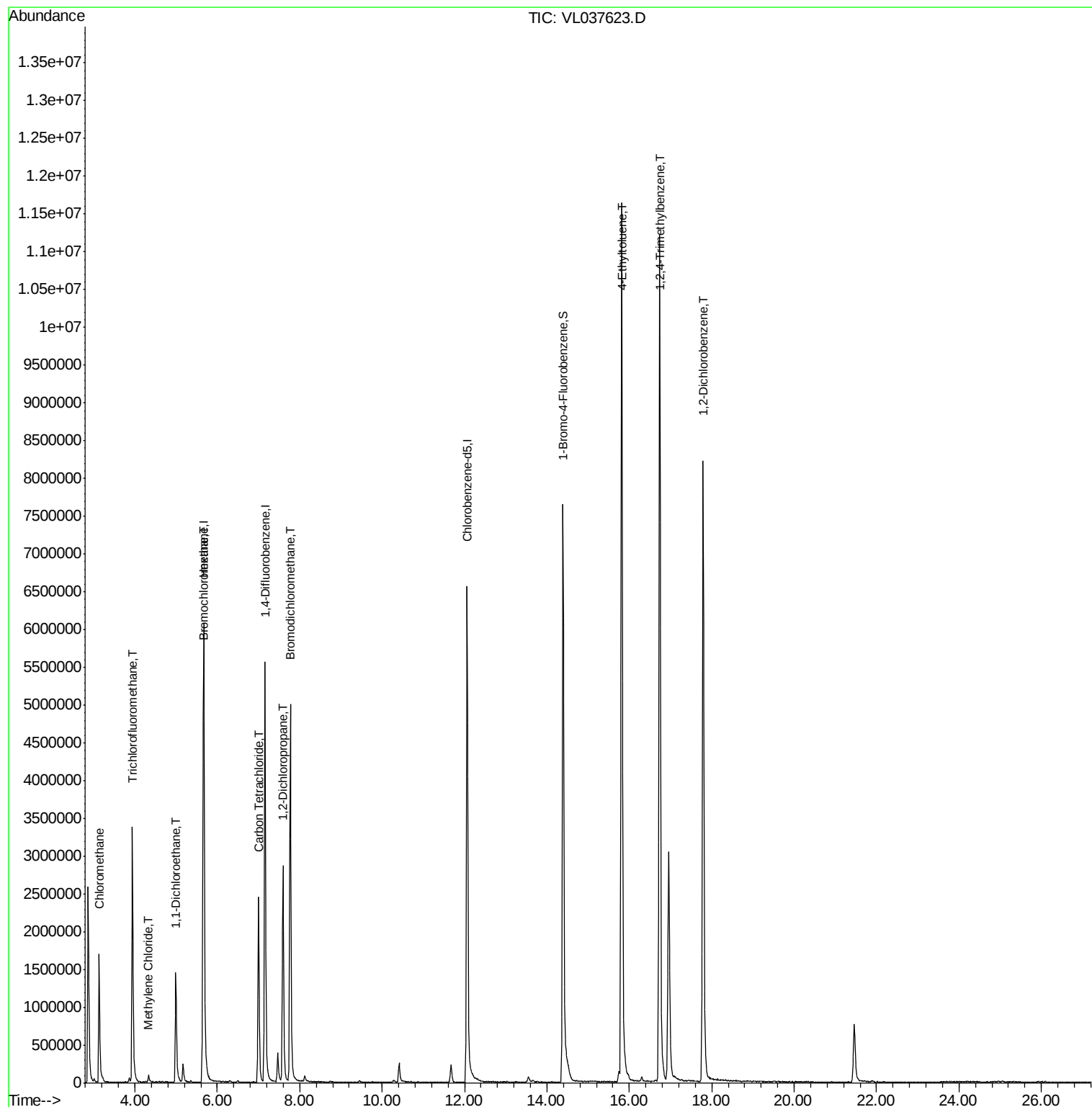
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
Data File : VL037623.D
Acq On : 16 Sep 2021 20:08
Operator : SY/AP
Sample : M3277-01DL 2X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

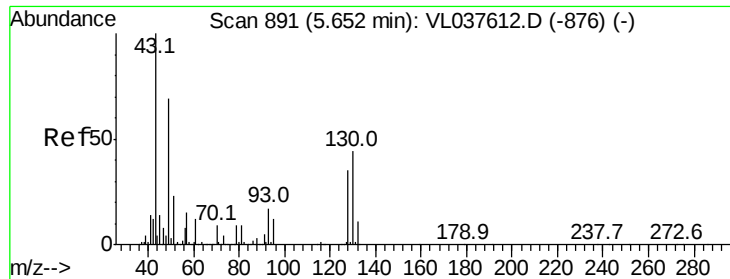
Instrument :
MSVOA_L
ClientSampleId :
E057-1100DL

Manual Integrations
APPROVED

MMDadoda
9/20/2021 5:27:17 PM

Quant Time: Sep 17 09:12:12 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037623.D

Acq: 16 Sep 2021 20:08

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

Tot Ion: 49 Resp: 1688951

Ion Ratio Lower Upper

49 100

128 52.6 27.9 83.6

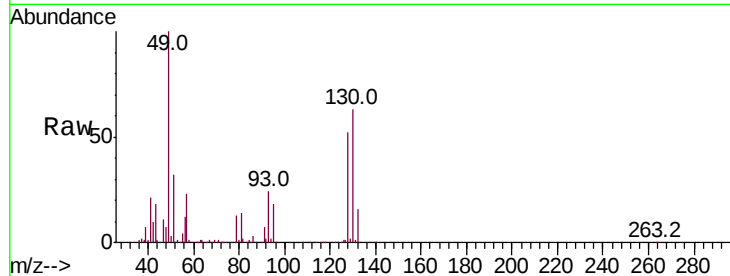
130 67.4 33.9 101.7

Manual Integrations

APPROVED

MMDadoda

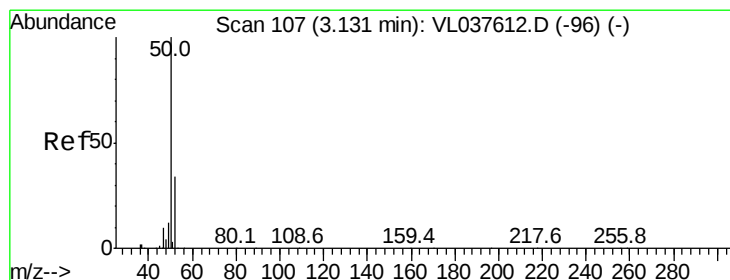
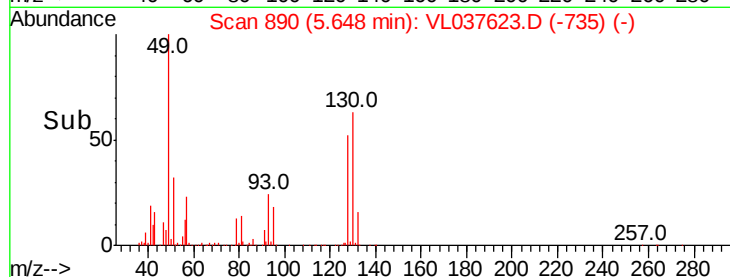
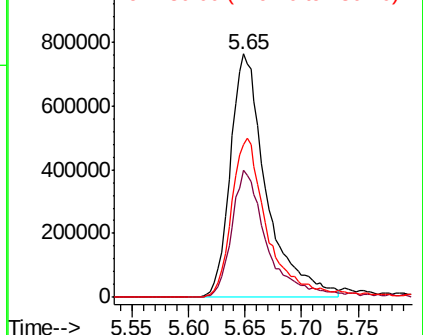
9/20/2021 5:27:17 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 15.994 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037623.D

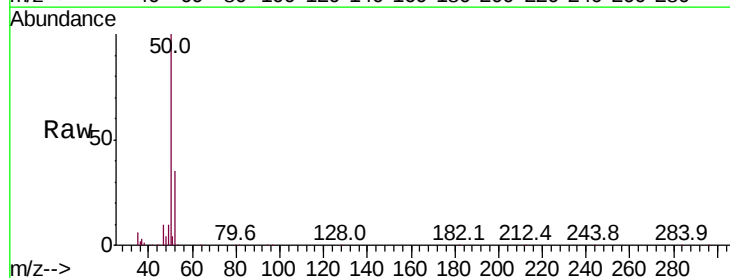
Acq: 16 Sep 2021 20:08

Tgt Ion: 50 Resp: 1882528

Ion Ratio Lower Upper

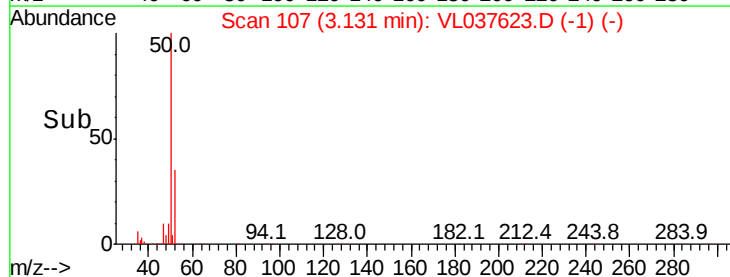
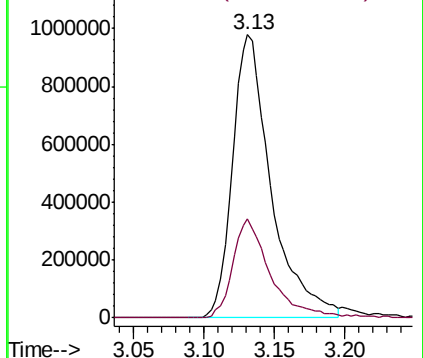
50 100

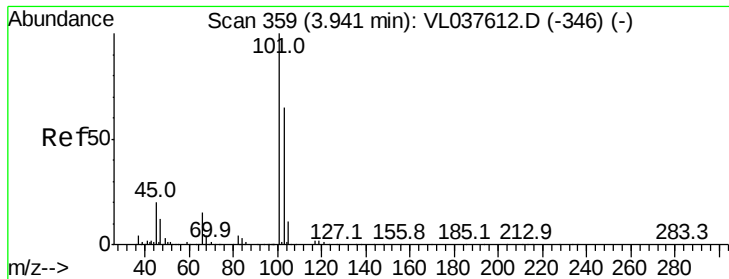
52 34.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#11

Trichlorofluoromethane

Concen: 11.240 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.00 min

Lab File: VL037623.D

Acq: 16 Sep 2021 20:08

Instrument :

MSVOA_L

ClientSampleId :

E057-1100DL

Tot Ion:101 Resp: 2757983

Ion Ratio Lower Upper

101 100

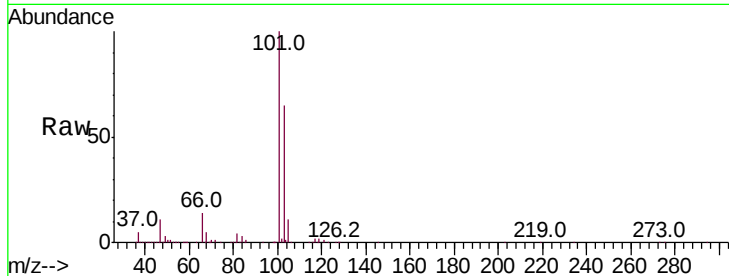
103 65.3 51.9 77.9

Manual Integrations

APPROVED

MMDadoda

9/20/2021 5:27:17 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

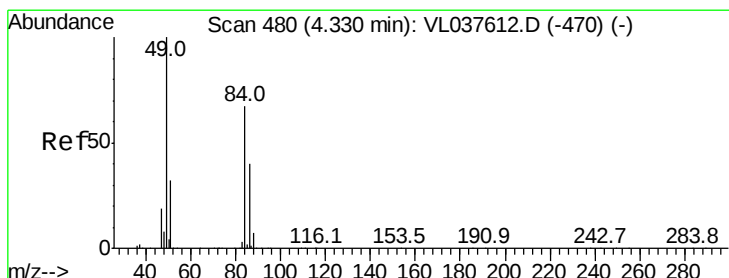
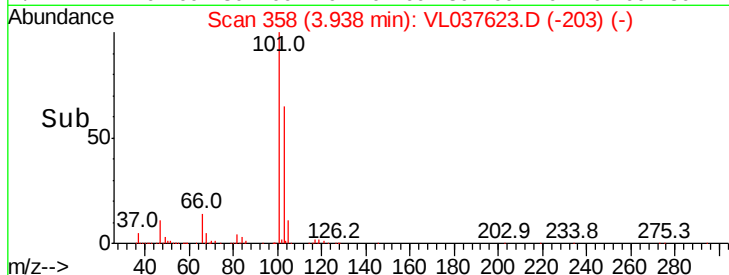
1000000

500000

0

3.85 3.90 3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: 0.463 ppbv m

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL037623.D

Acq: 16 Sep 2021 20:08

Tgt Ion: 84 Resp: 38827

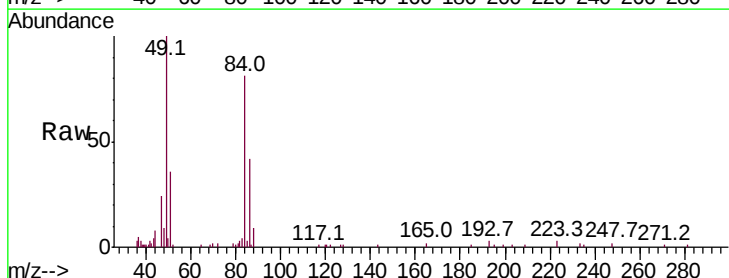
Ion Ratio Lower Upper

84 100

49 122.8 120.0 180.0

51 44.2 38.0 57.0

86 51.4 48.2 72.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

40000

30000

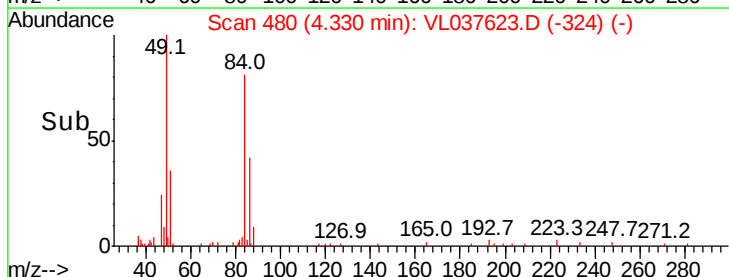
20000

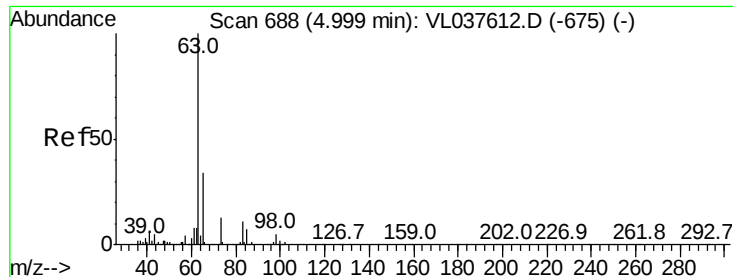
10000

0

4.30 4.35

Time-->





#24

1,1-Dichloroethane

Concen: 8.983 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL037623.D

Acq: 16 Sep 2021 20:08

Instrument :

MSVOA_L

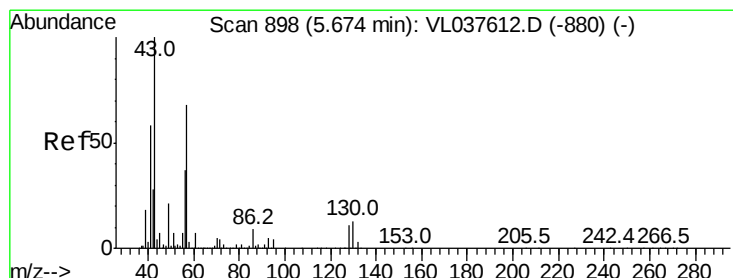
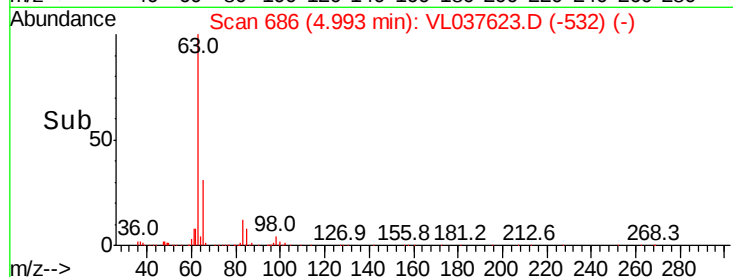
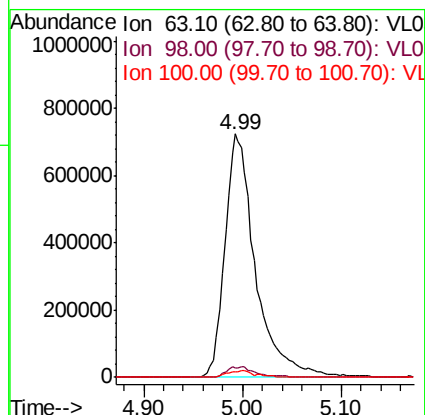
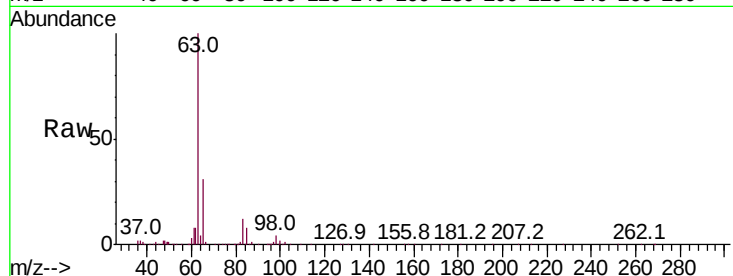
ClientSampleId :

E057-1100DL

Tot Ion:	63	Resp:	1562577
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.4	7.2
100	2.4	1.1	3.5

Manual Integrations
APPROVED

MMDadoda
9/20/2021 5:27:17 PM



#26

Hexane

Concen: 11.419 ppbv

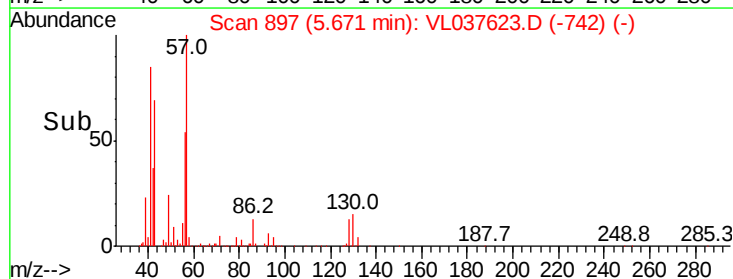
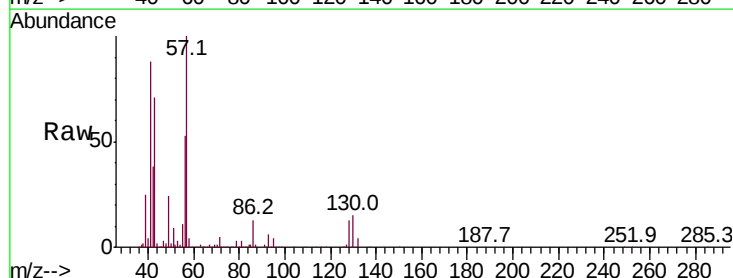
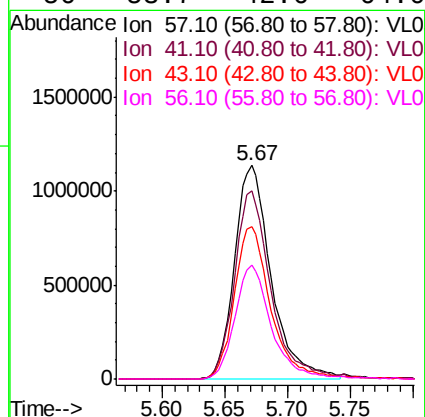
RT: 5.67 min Scan# 897

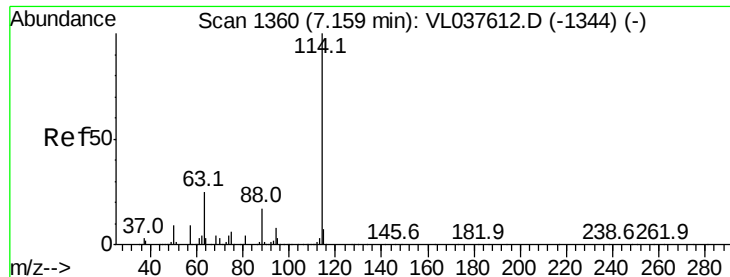
Delta R.T. -0.00 min

Lab File: VL037623.D

Acq: 16 Sep 2021 20:08

Tgt Ion:	57	Resp:	2305479
Ion	Ratio	Lower	Upper
57	100		
41	88.6	70.9	106.3
43	71.6	170.4	255.6#
56	53.7	42.6	64.0





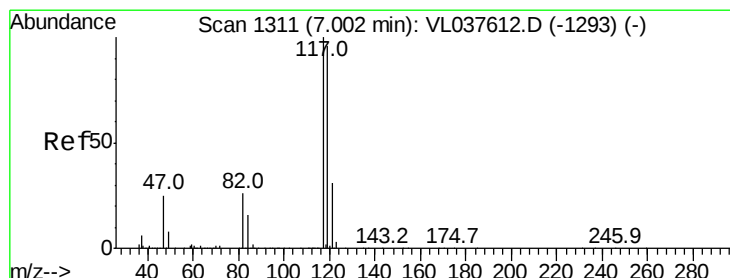
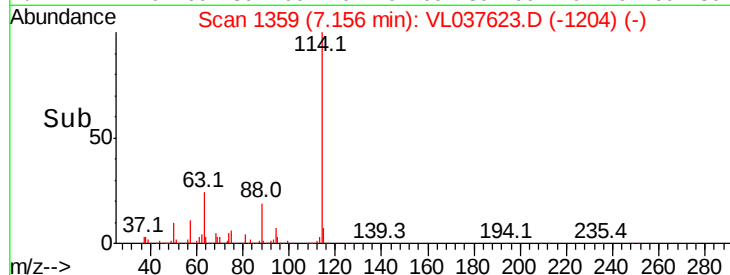
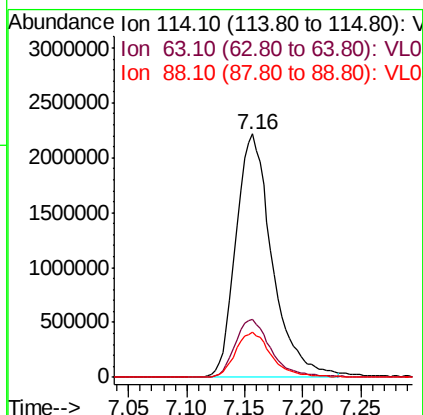
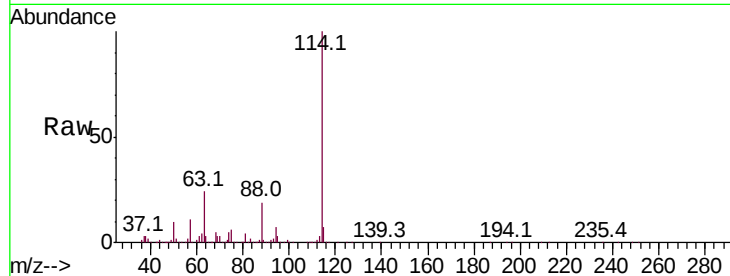
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL037623.D
 Acq: 16 Sep 2021 20:08

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.6	29.4
88	18.5	14.2	21.4

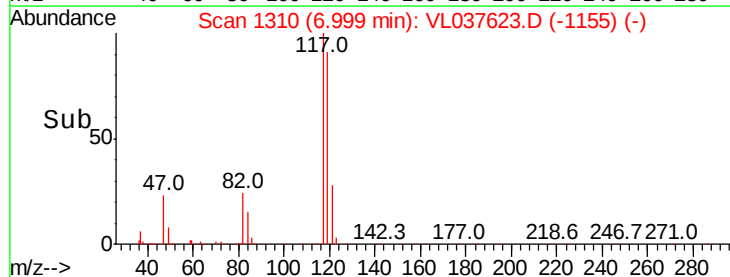
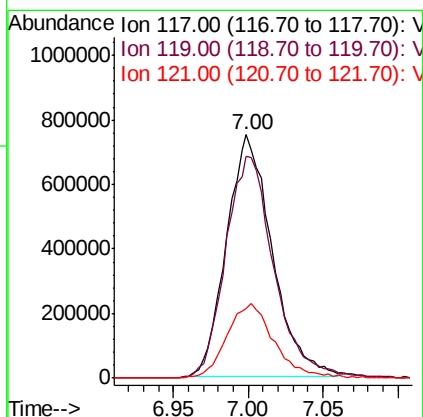
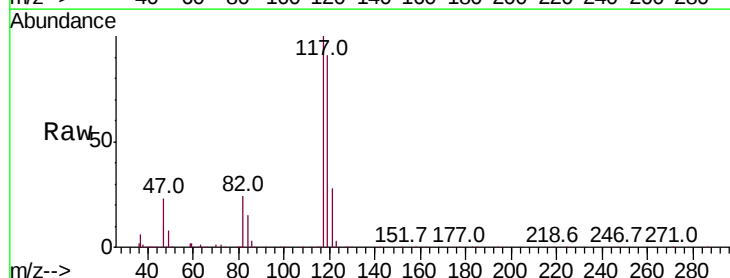
Manual Integrations
 APPROVED

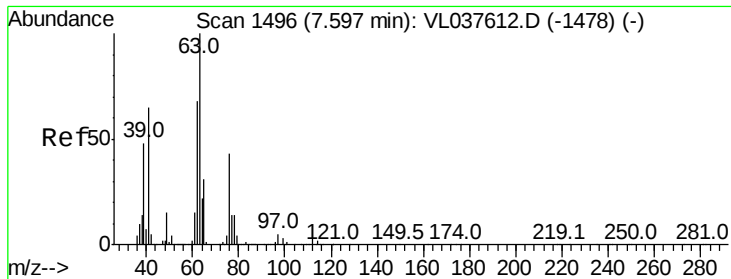
MMDadoda
 9/20/2021 5:27:17 PM



#35
 Carbon Tetrachloride
 Concen: 5.851 ppbv
 RT: 7.00 min Scan# 1310
 Delta R.T. -0.00 min
 Lab File: VL037623.D
 Acq: 16 Sep 2021 20:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.4	77.0	115.6
121	28.1	24.5	36.7





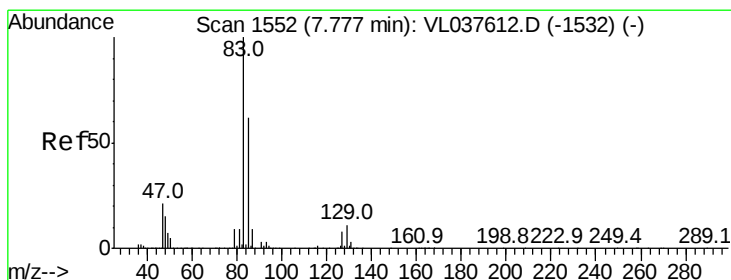
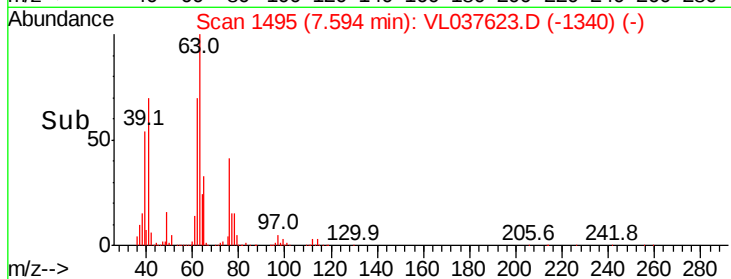
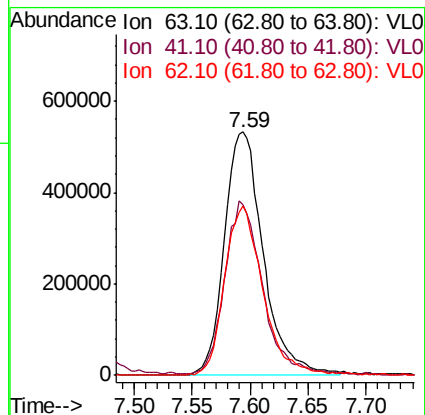
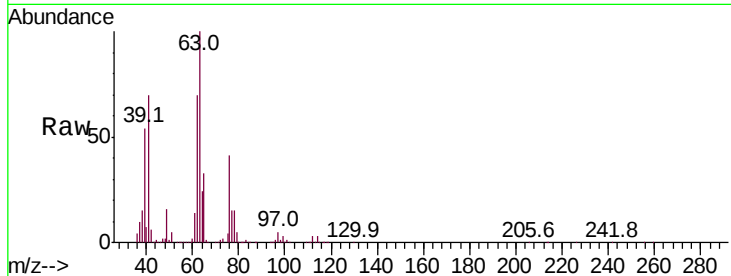
#39
 1,2-Dichloropropane
 Concen: 7.967 ppbv
 RT: 7.59 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: VL037623.D
 Acq: 16 Sep 2021 20:08

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.3	51.6	77.4
62	69.3	54.6	81.8

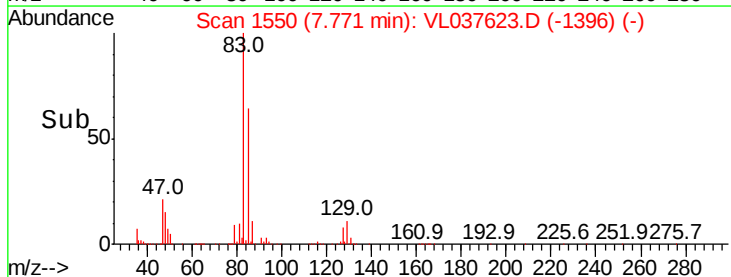
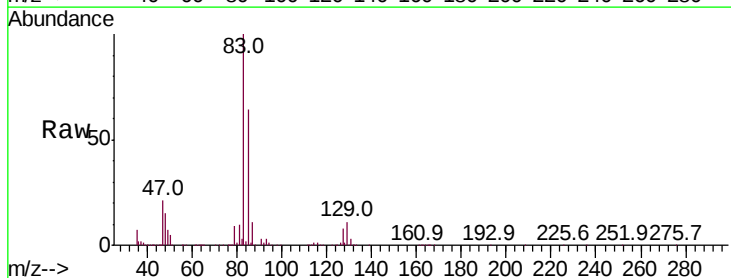
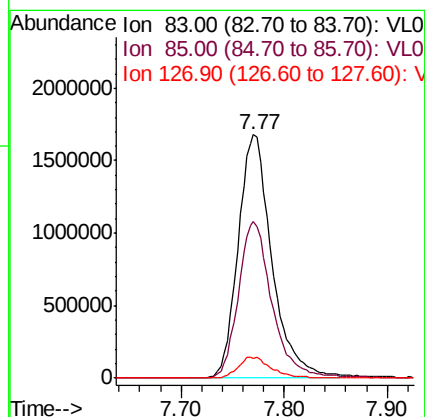
Manual Integrations
 APPROVED

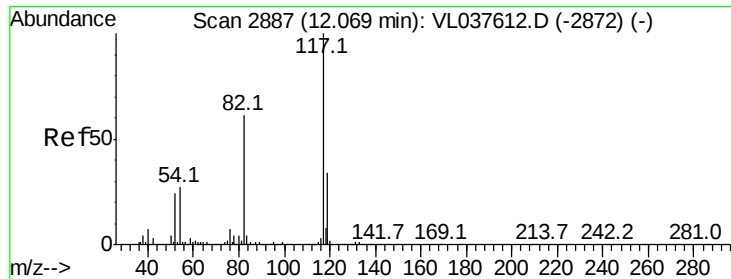
MMDadoda
 9/20/2021 5:27:17 PM



#42
 Bromodichloromethane
 Concen: 13.503 ppbv
 RT: 7.77 min Scan# 1550
 Delta R.T. -0.01 min
 Lab File: VL037623.D
 Acq: 16 Sep 2021 20:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	49.8	74.6
127	8.2	6.4	9.6





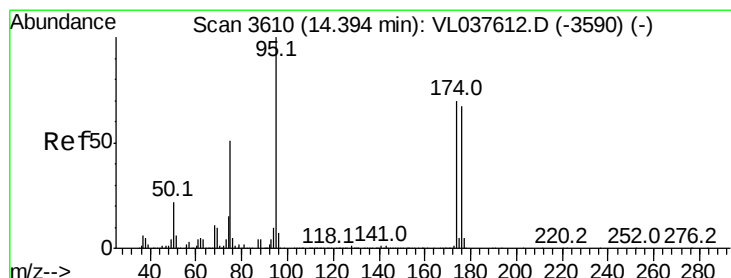
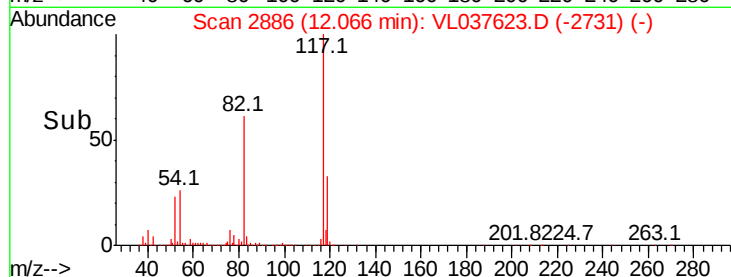
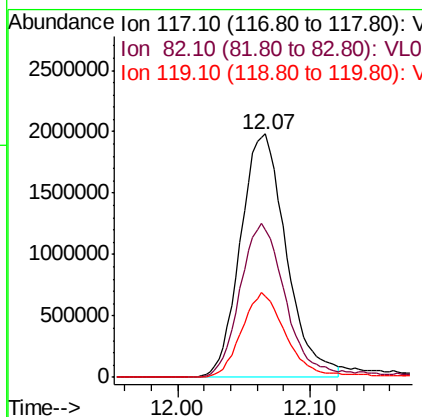
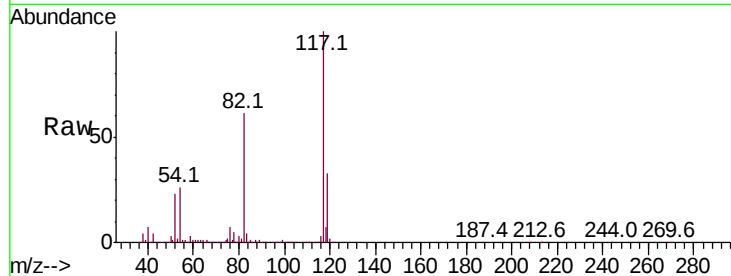
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.00 min
Lab File: VL037623.D
Acq: 16 Sep 2021 20:08

Instrument :
MSVOA_L
ClientSampleId :
E057-1100DL

Tot Ion:117 Resp: 4751168
Ion Ratio Lower Upper
117 100
82 66.3 50.6 75.8
119 35.0 26.2 39.2

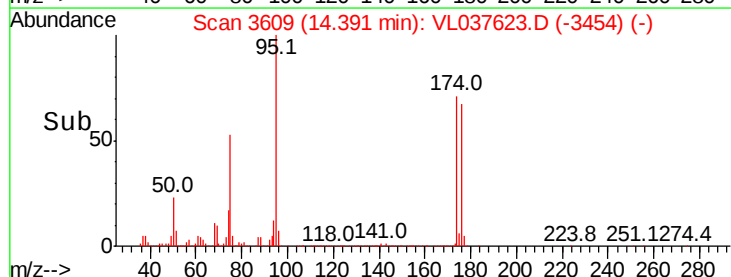
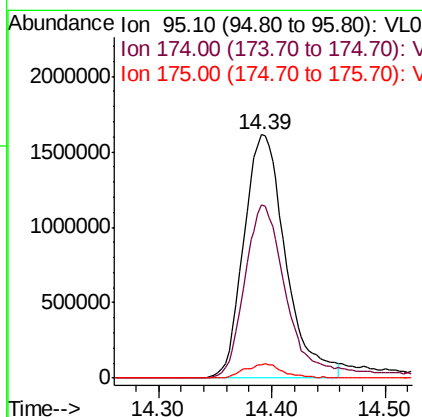
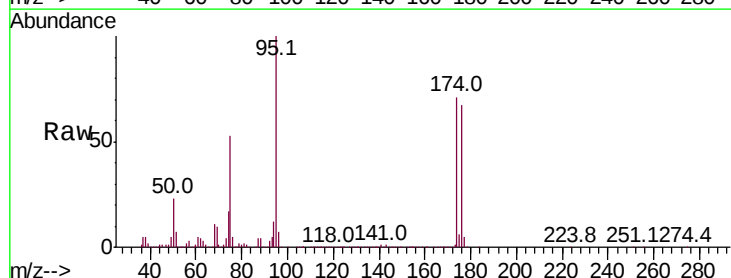
Manual Integrations
APPROVED

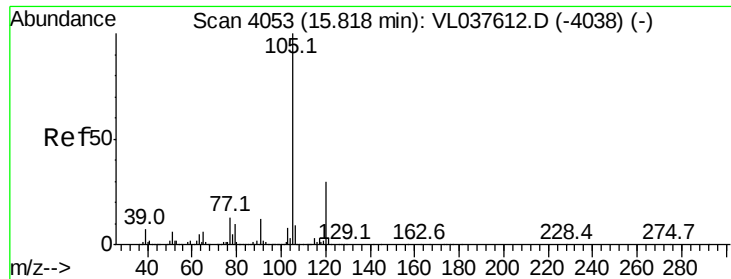
MMDadoda
9/20/2021 5:27:17 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 12.088 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.00 min
Lab File: VL037623.D
Acq: 16 Sep 2021 20:08

Tgt Ion: 95 Resp: 4150591
Ion Ratio Lower Upper
95 100
174 75.4 56.3 84.5
175 5.7 4.4 6.6





#72

4-Ethyltoluene

Concen: 18.138 ppbv

RT: 15.82 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VL037623.D

Acq: 16 Sep 2021 20:08

Instrument :

MSVOA_L

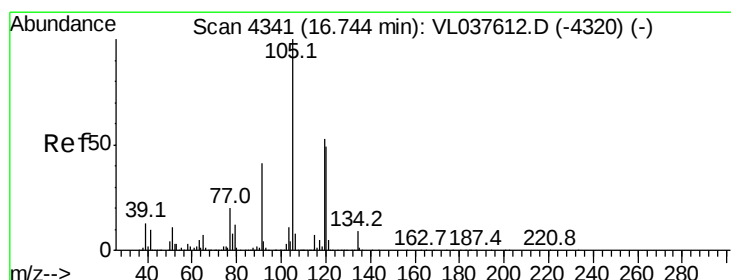
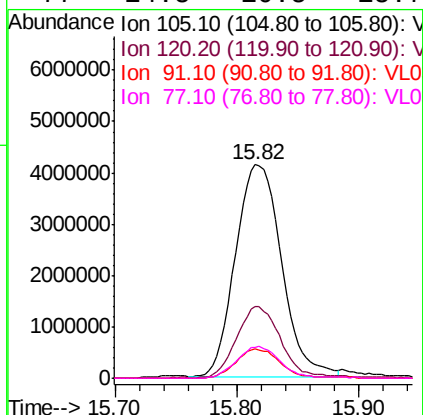
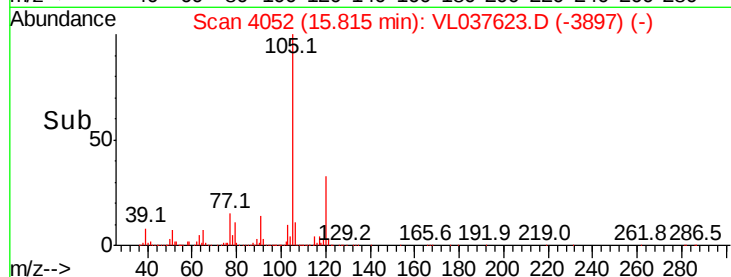
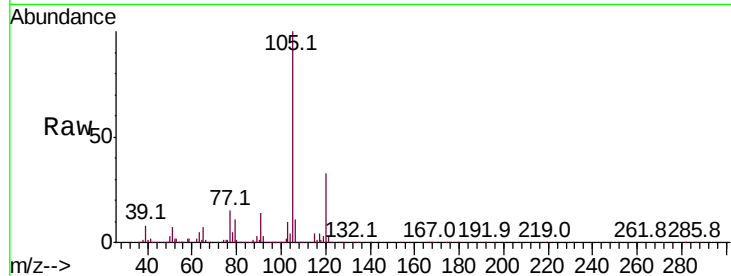
ClientSampleId :

E057-1100DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	33.5	24.7	37.1
91	13.7	9.9	14.9
77	14.5	10.5	15.7

Manual Integrations
APPROVED

MMDadoda
9/20/2021 5:27:17 PM



#74

1,2,4-Trimethylbenzene

Concen: 16.292 ppbv

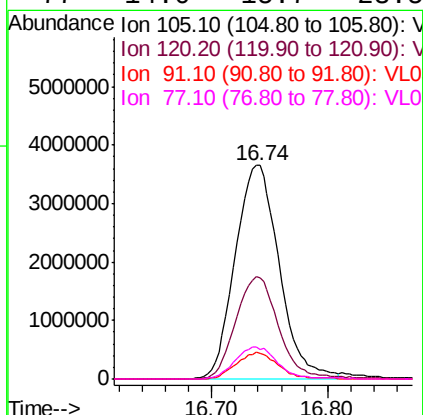
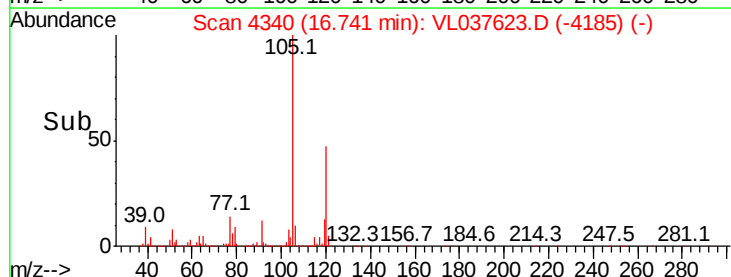
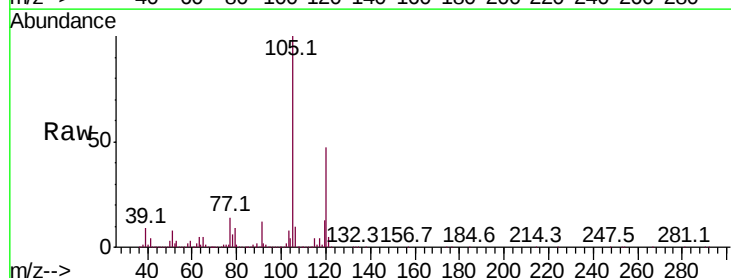
RT: 16.74 min Scan# 4340

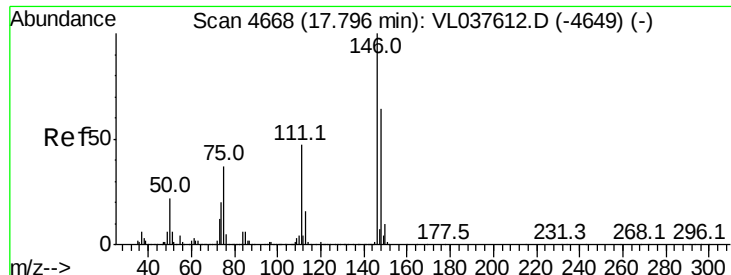
Delta R.T. -0.00 min

Lab File: VL037623.D

Acq: 16 Sep 2021 20:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	39.4	59.0
91	12.2	33.3	49.9#
77	14.0	15.7	23.5#





#77
 1,2-Dichlorobenzene
 Concen: 14.345 ppbv
 RT: 17.79 min Scan# 4667
 Delta R.T. -0.00 min
 Lab File: VL037623.D
 Acq: 16 Sep 2021 20:08

Instrument :
 MSVOA_L
 ClientSampleId :
 E057-1100DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	24.0	72.0
148	65.0	32.8	98.3

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:27:17 PM

