

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037291.D
 Acq On : 30 Jul 2021 19:14
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/2/2021 8:57:38 AM

Quant Time: Jul 30 23:09:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 2021
 QLast Update : Fri Jul 30 22:49:48 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1210289	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3908781	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3492163	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2550610	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	121200	0.601	ppbv	95
3) Chlorodifluoromethane	2.98	51	134840	0.570	ppbv	97
4) Chloromethane	3.13	50	45402	0.576	ppbv	89
5) Vinyl Chloride	3.25	62	44243	0.511	ppbv	90
6) Bromomethane	3.47	94	26926	0.522	ppbv	97
7) Chloroethane	3.55	64	17774m	0.574	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	119398	0.554	ppbv	96
9) Propene	3.01	41	47588	0.630	ppbv	95
10) Heptane	8.12	43	97375	0.530	ppbv	95
11) Trichlorofluoromethane	3.95	101	117868	0.530	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.48	101	86403m	0.546	ppbv	
13) Ethanol	3.62	45	12958m	1.074	ppbv	
14) Bromoethene	3.74	108	34915m	0.525	ppbv	
15) Acetone	3.86	43	152706m	1.105	ppbv	
16) 1,3-Butadiene	3.32	39	44312m	0.552	ppbv	
17) tert-Butyl alcohol	4.31	59	74782m	0.593	ppbv	
18) 1,1-Dichloroethene	4.29	96	38049	0.541	ppbv	98
19) Isopropyl Alcohol	3.98	45	43338m	0.526	ppbv	
20) Methylene Chloride	4.34	84	53281	0.618	ppbv	98
21) Allyl Chloride	4.41	41	47580m	0.463	ppbv	
22) trans-1,2-Dichloroethene	4.89	96	33976	0.484	ppbv	92
23) Vinyl Acetate	5.08	43	84710	0.442	ppbv #	88
24) 1,1-Dichloroethane	5.01	63	70552	0.458	ppbv	96
25) Ethyl Acetate	5.69	43	161558	0.537	ppbv #	96
26) Hexane	5.69	57	88718	0.574	ppbv	95
27) Carbon Disulfide	4.55	76	52753	0.362	ppbv #	62
28) Methyl tert-Butyl Ether	5.05	73	92736	0.535	ppbv	100
29) Chloroform	5.75	83	132718m	0.573	ppbv	
30) Cyclohexane	7.13	84	60528	0.479	ppbv #	86
31) cis-1,2-Dichloroethene	5.55	61	71840	0.518	ppbv	92
32) 1,1,1-Trichloroethane	6.51	97	117648	0.476	ppbv	99
34) 2-Butanone	5.26	43	83876	0.552	ppbv #	82
35) Carbon Tetrachloride	7.02	117	115909	0.446	ppbv	99
36) Benzene	6.89	78	165541	0.522	ppbv	99
37) 1,2-Dichloroethane	6.30	62	78487m	0.432	ppbv	
38) Trichloroethene	7.84	130	72972	0.482	ppbv #	86
39) 1,2-Dichloropropane	7.61	63	65176m	0.555	ppbv	
40) 1,4-Dioxane	7.87	88	19801m	0.619	ppbv	
41) Tetrahydrofuran	6.09	42	33480m	0.474	ppbv	
42) Bromodichloromethane	7.80	83	106871	0.426	ppbv	99
43) Methyl Methacrylate	8.03	69	49253m	0.452	ppbv	

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 ClientSampleId :
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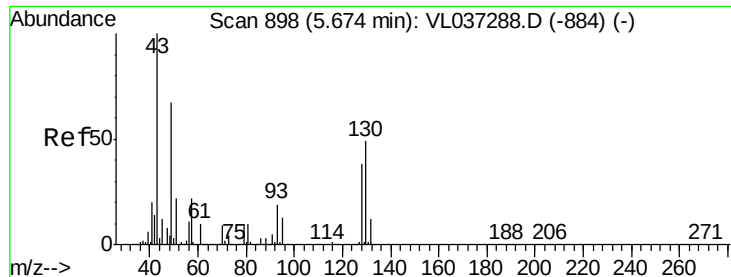
Manual Integrations
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 8/2/2021 8:57:38 AM

Quant Time: Jul 30 23:09:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 2021
 QLast Update : Fri Jul 30 22:49:48 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	273797	0.514	ppbv	97
45) t-1,3-Dichloropropene	9.28	75	35034m	0.369	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	45858	0.352	ppbv	90
47) 1,1,2-Trichloroethane	9.48	97	70269m	0.522	ppbv	
48) Dibromochloromethane	10.32	129	88287m	0.418	ppbv	
49) Bromoform	13.05	173	55926	0.350	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	99801m	0.483	ppbv	
51) 2-Hexanone	10.17	43	43599m	0.434	ppbv	
52) Tetrachloroethene	11.23	164	71330m	0.483	ppbv	
53) Toluene	9.81	91	183136m	0.482	ppbv	
54) 1,2-Dibromoethane	10.62	107	91714	0.475	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.14	131	77656	0.512	ppbv #	1
57) Chlorobenzene	12.15	112	156493	0.552	ppbv	96
58) Ethyl Benzene	12.72	91	244728m	0.511	ppbv	
59) m/p-Xylene	13.00	91	434654m	1.071	ppbv	
60) o-Xylene	13.70	91	209196	0.541	ppbv	99
61) Styrene	13.54	104	86052	0.432	ppbv	93
62) Isopropylbenzene	14.68	105	295456m	0.536	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	147269m	0.567	ppbv	
64) n-propylbenzene	15.57	120	69757m	0.504	ppbv	
65) tert-Butylbenzene	16.76	119	265337	0.539	ppbv	92
66) Benzyl Chloride	17.00	91	10943m	0.482	ppbv	
67) sec-Butylbenzene	17.30	105	349577	0.532	ppbv	99
69) p-Isopropyltoluene	17.66	119	282774	0.509	ppbv	96
70) n-Butylbenzene	18.56	91	276581m	0.538	ppbv	
71) 2-Chlorotoluene	15.46	91	200639m	0.520	ppbv	
72) 4-Ethyltoluene	15.85	105	225700	0.507	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	215897	0.504	ppbv	92
74) 1,2,4-Trimethylbenzene	16.78	105	247340	0.561	ppbv #	85
75) 1,3-Dichlorobenzene	17.00	146	142554	0.527	ppbv	92
76) 1,4-Dichlorobenzene	17.15	146	153767m	0.566	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	139034	0.530	ppbv	94
78) Hexachloro-1,3-Butadiene	23.39	225	117970m	0.535	ppbv	
79) Naphthalene	22.22	128	169900m	0.478	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	40697	0.439	ppbv #	78
81) 1,2,4-Trichlorobenzene	21.94	180	109506m	0.526	ppbv	

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



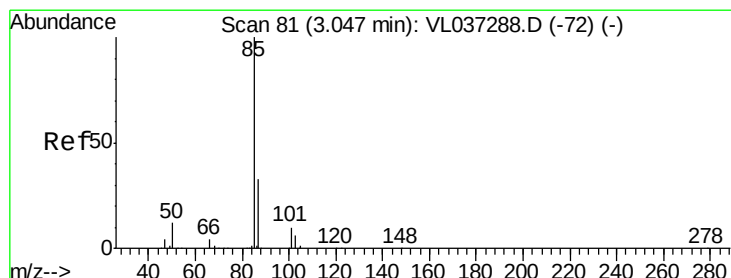
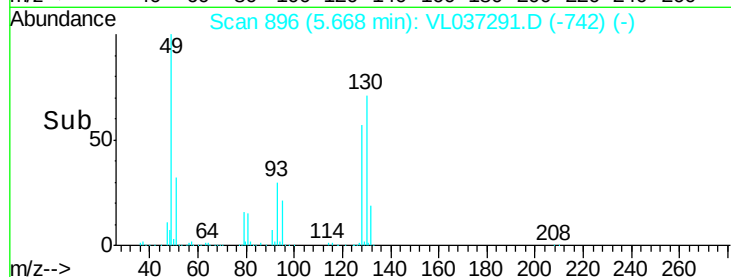
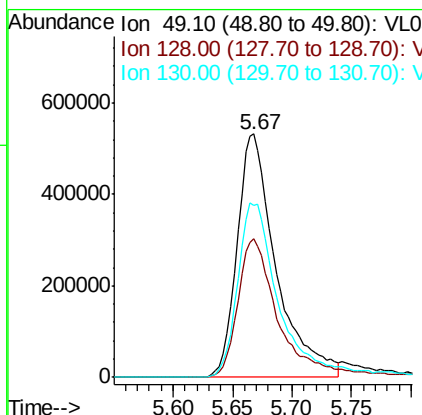
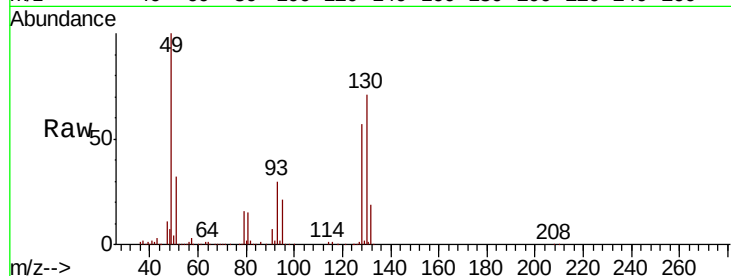
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 49 Resp: 1210289
Ion Ratio Lower Upper
49 100
128 61.8 30.6 92.0
130 77.7 37.8 113.4

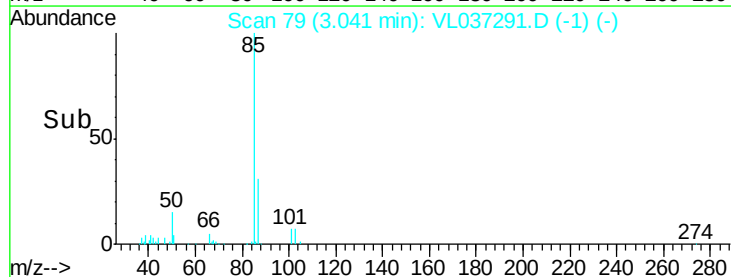
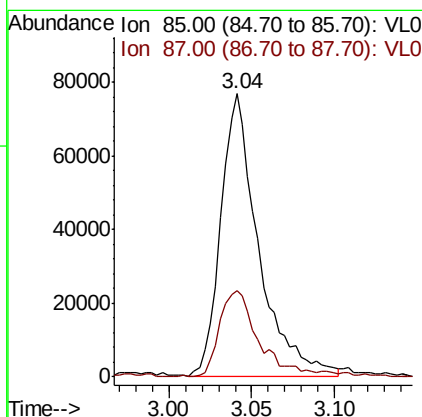
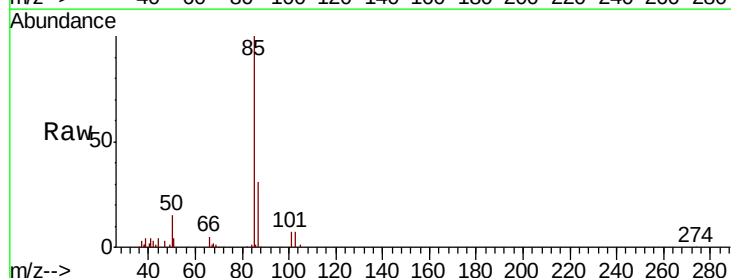
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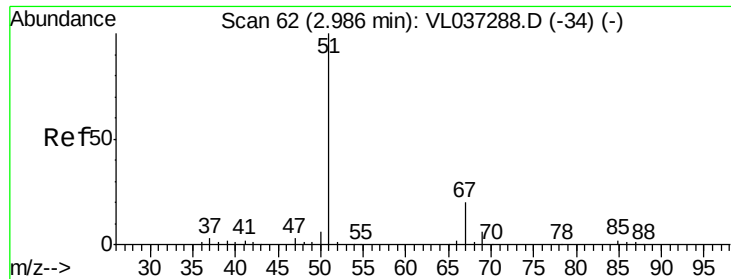
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#2
Dichlorodifluoromethane
Concen: 0.601 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion: 85 Resp: 121200
Ion Ratio Lower Upper
85 100
87 30.5 26.6 40.0





#3

Chlorodifluoromethane

Concen: 0.570 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 134840

Ion Ratio Lower Upper

51 100

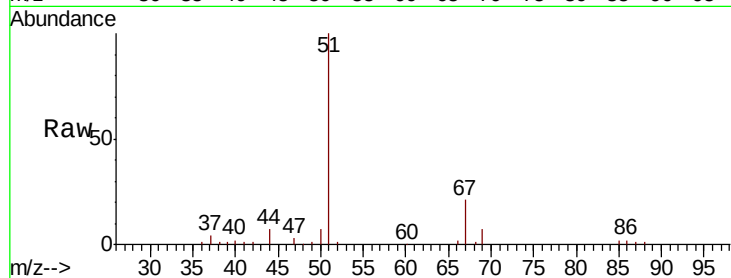
67 20.2 15.2 22.8

Manual Integrations

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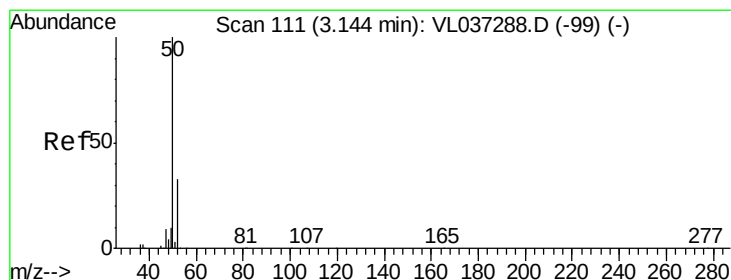
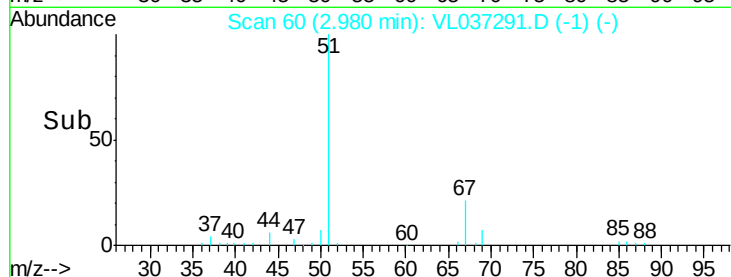
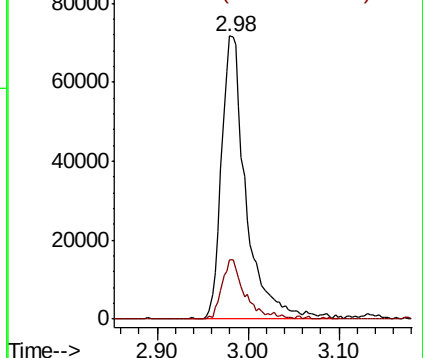
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.576 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037291.D

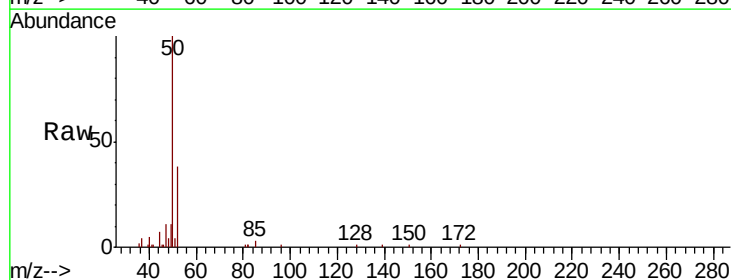
Acq: 30 Jul 2021 19:14

Tgt Ion: 50 Resp: 45402

Ion Ratio Lower Upper

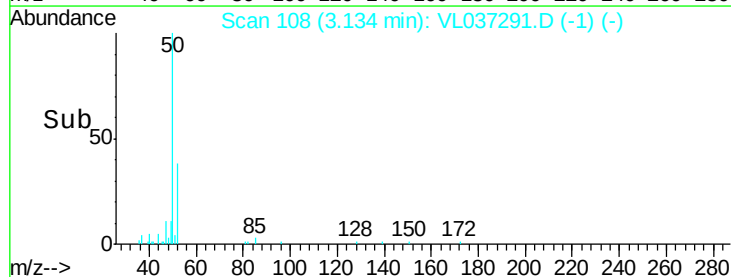
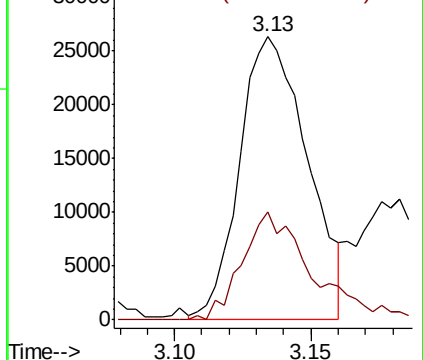
50 100

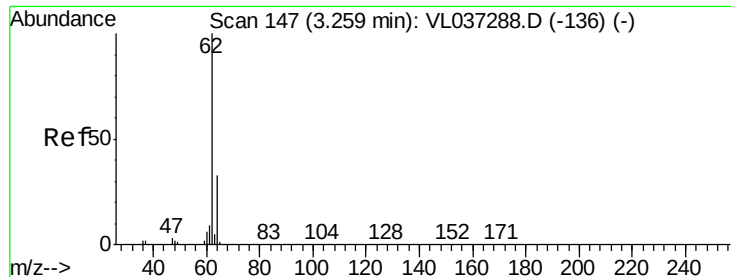
52 38.8 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.511 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 44243

Ion Ratio Lower Upper

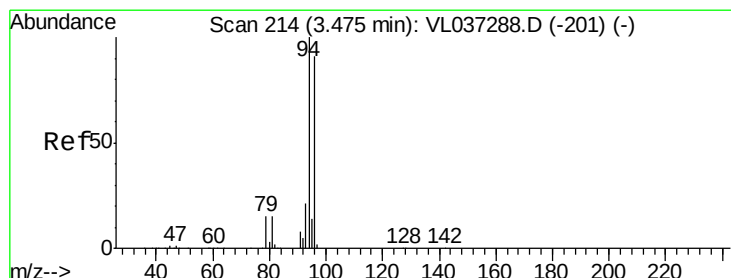
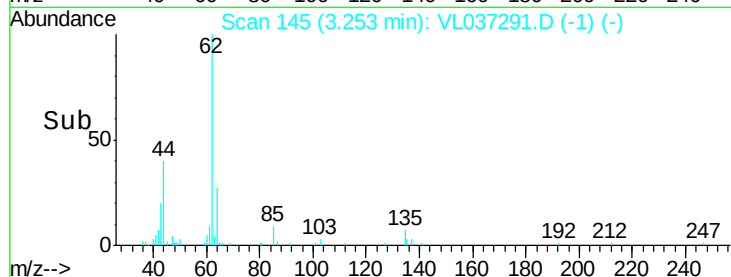
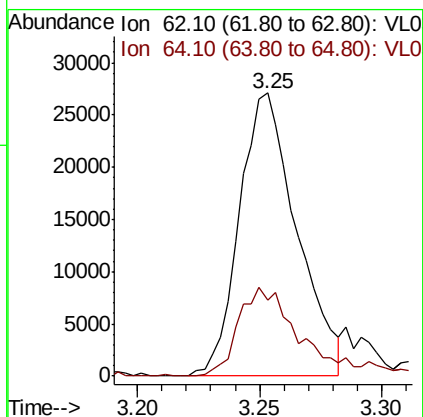
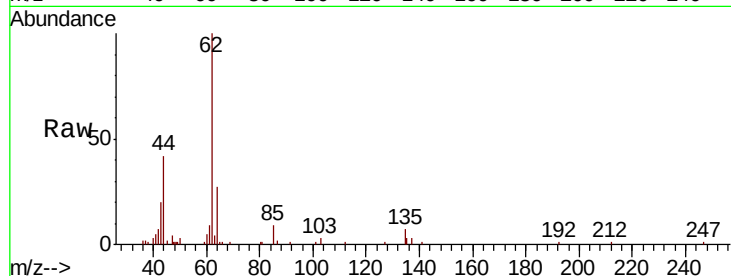
62 100

64 26.9 26.1 39.1

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#6

Bromomethane

Concen: 0.522 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL037291.D

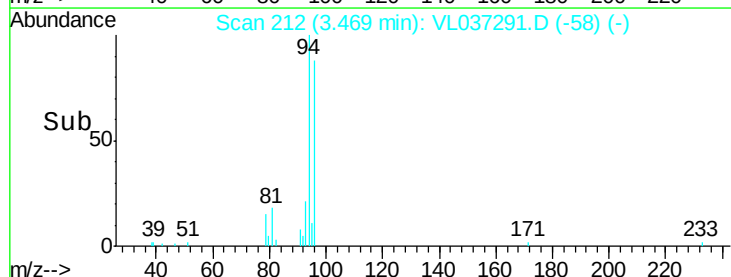
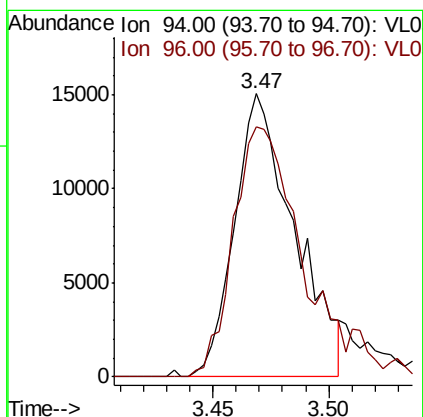
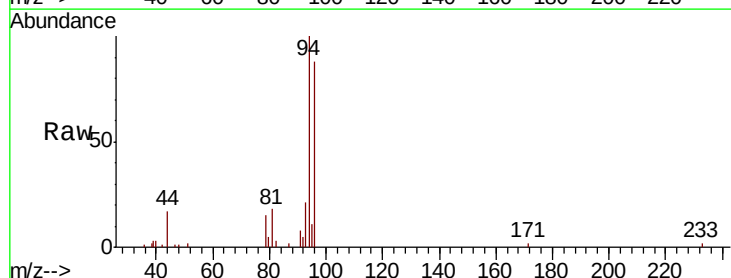
Acq: 30 Jul 2021 19:14

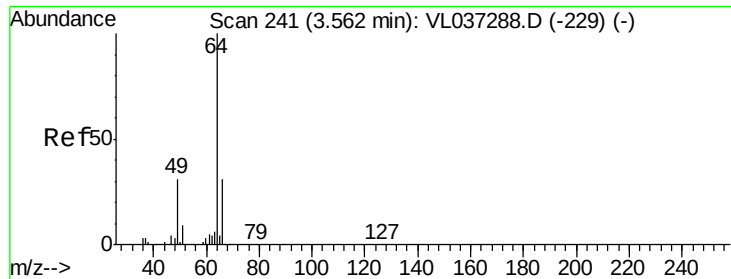
Tgt Ion: 94 Resp: 26926

Ion Ratio Lower Upper

94 100

96 88.4 72.7 109.1





#7

Chloroethane

Concen: 0.574 ppbv m

RT: 3.55 min Scan# 238

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 17774

Ion Ratio Lower Upper

64 100

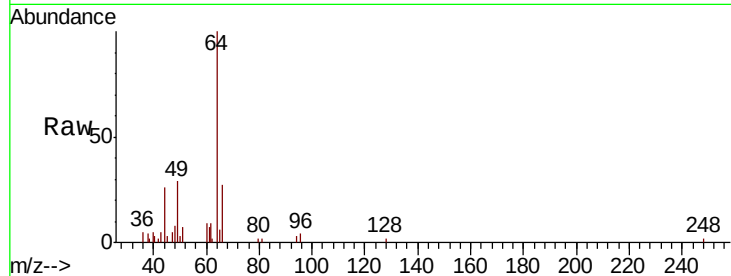
66 26.5 24.9 37.3

Manual Integrations

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8/2/2021 8:57:38 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

12000

10000

8000

6000

4000

2000

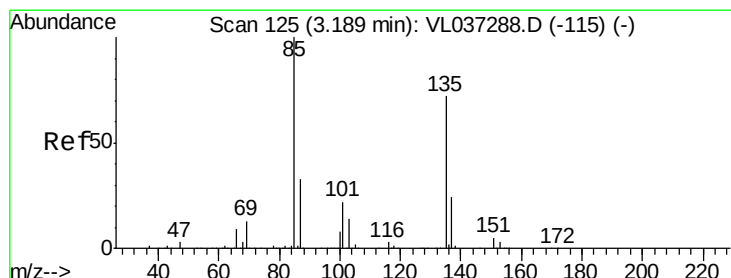
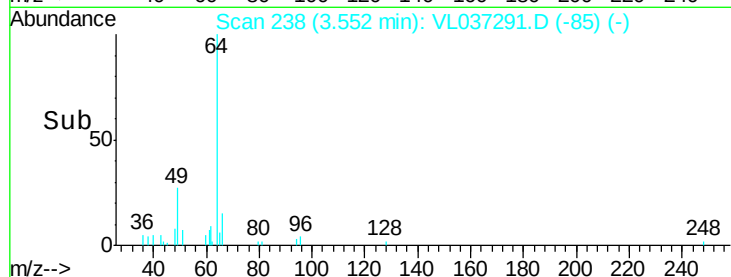
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Time-->

3.50

3.55

3.60



#8

Dichlorotetrafluoroethane

Concen: 0.554 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.01 min

Lab File: VL037291.D

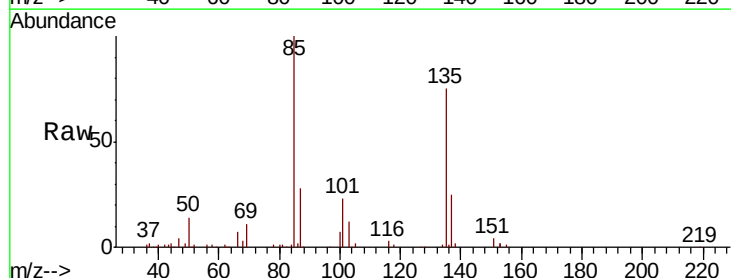
Acq: 30 Jul 2021 19:14

Tgt Ion: 85 Resp: 119398

Ion Ratio Lower Upper

85 100

135 79.6 61.0 91.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

80000

60000

40000

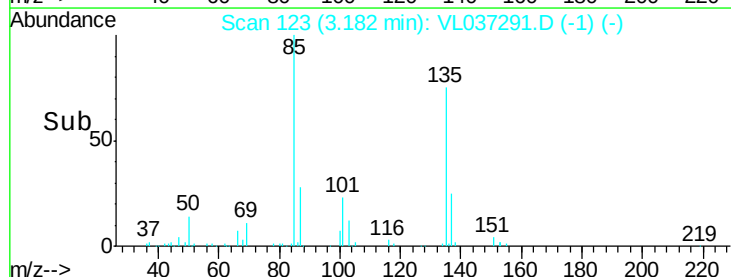
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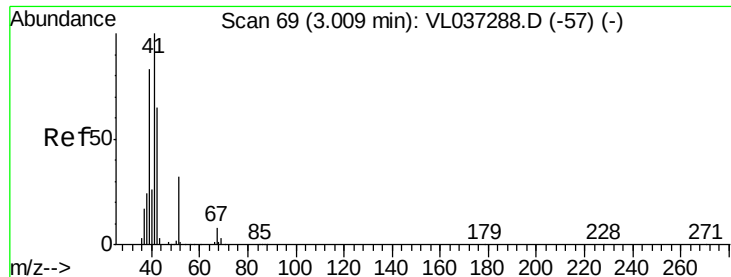
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Time-->

3.15

3.20





#9

Propene

Concen: 0.630 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 47588

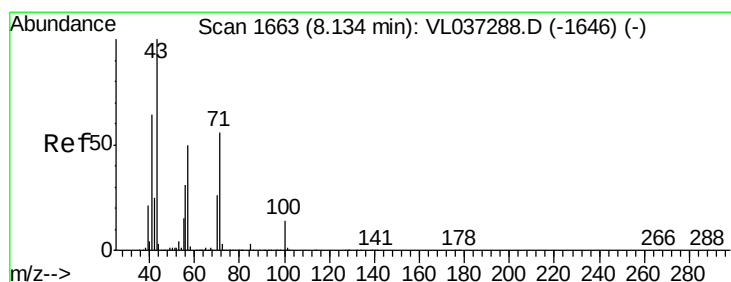
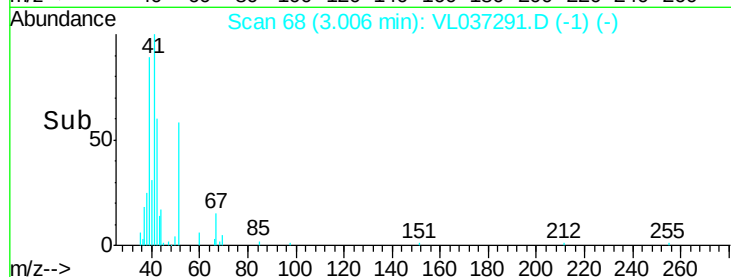
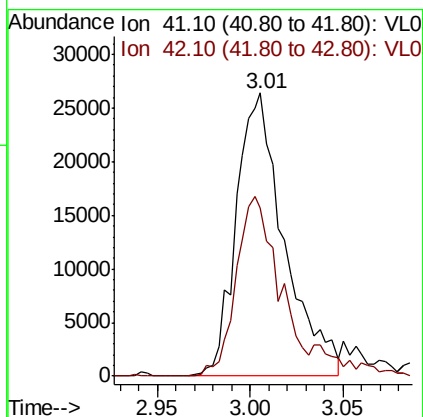
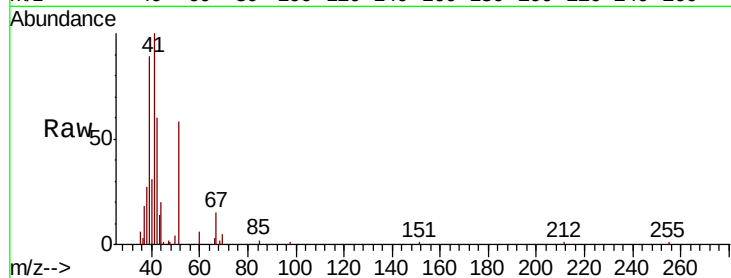
Ion Ratio Lower Upper

41 100

42 63.7 54.0 81.0

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#10

Heptane

Concen: 0.530 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL037291.D

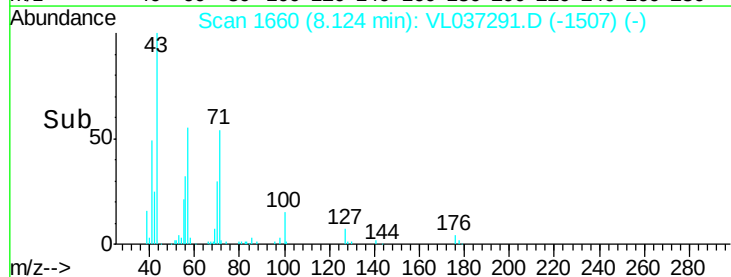
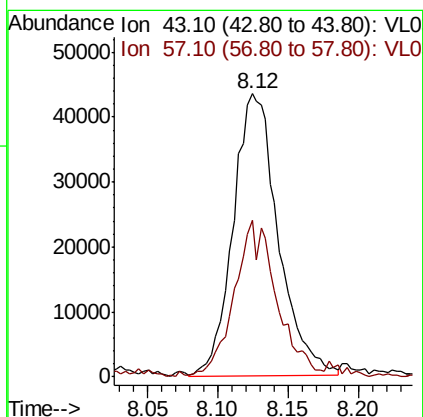
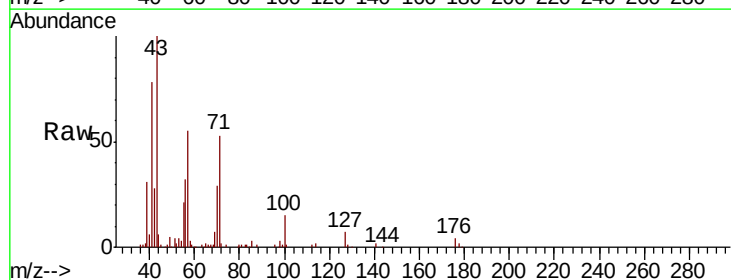
Acq: 30 Jul 2021 19:14

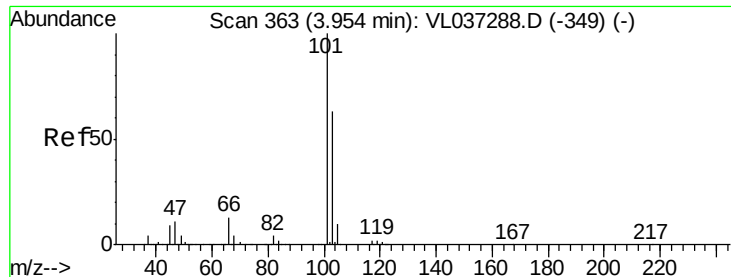
Tgt Ion: 43 Resp: 97375

Ion Ratio Lower Upper

43 100

57 54.8 40.9 61.3





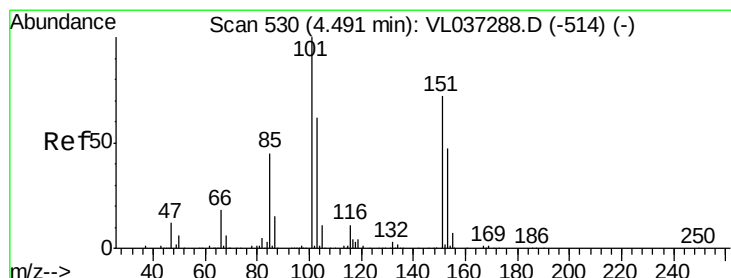
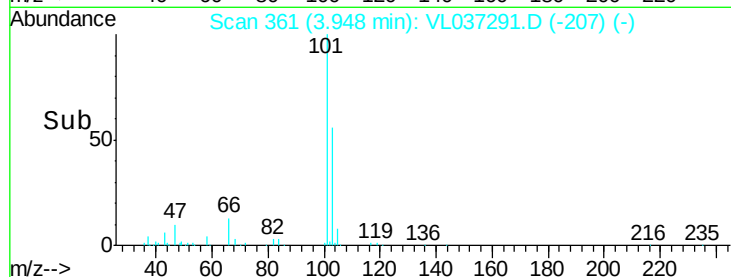
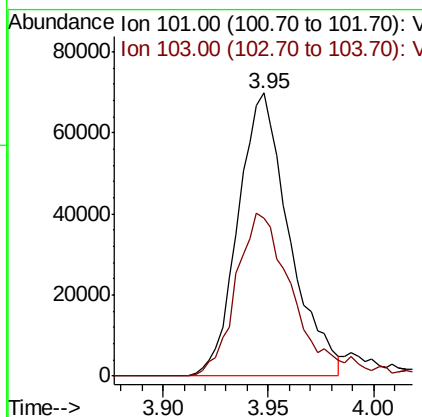
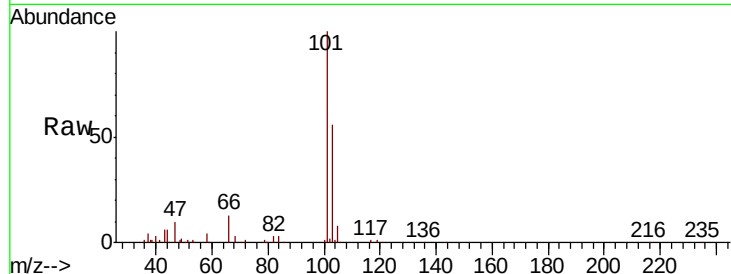
#11
 Trichlorofluoromethane
 Concen: 0.530 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.0	50.6	75.8

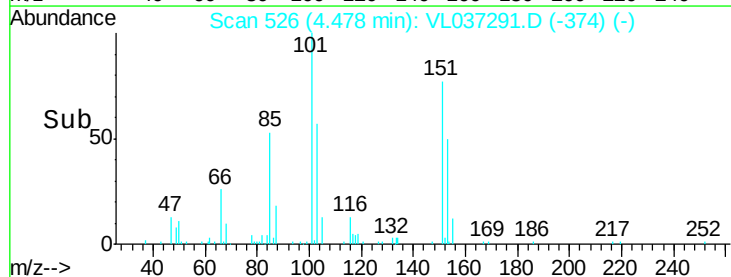
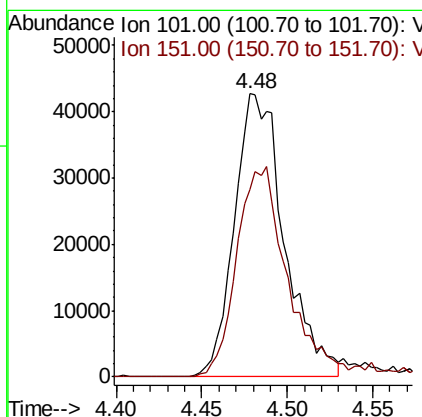
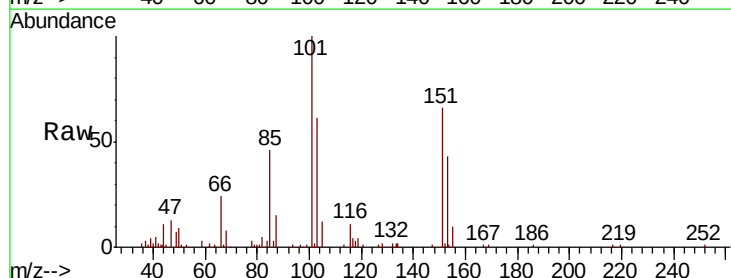
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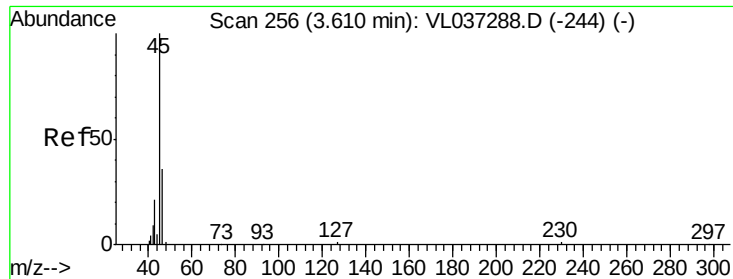
MMDadoda
 8/2/2021 8:57:38 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.546 ppbv m
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
101	100		
151	78.2	61.4	92.0





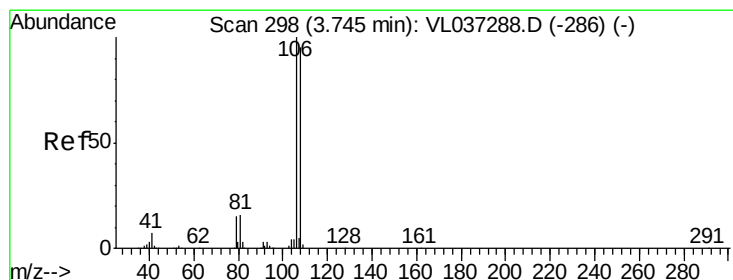
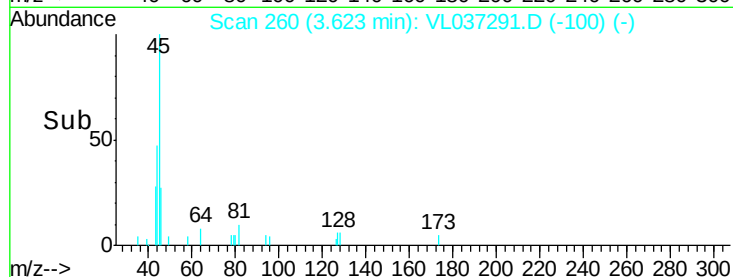
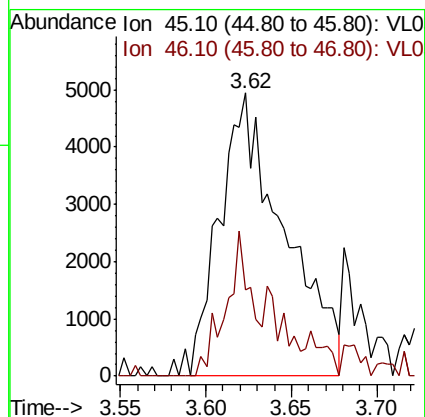
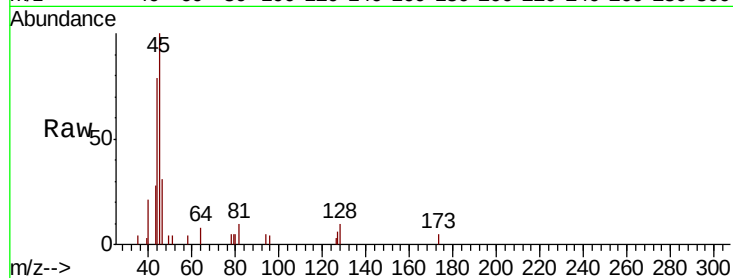
#13
Ethanol
Concen: 1.074 ppbv m
RT: 3.62 min Scan# 260
Delta R.T. 0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	16.2	64.8#

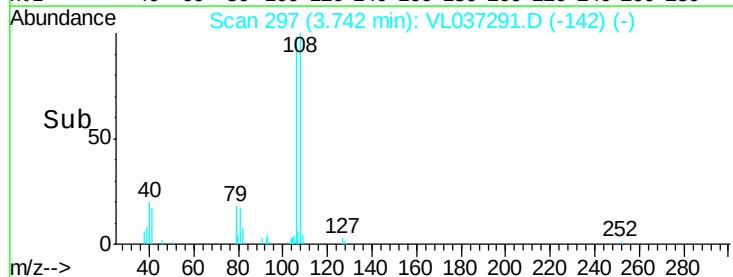
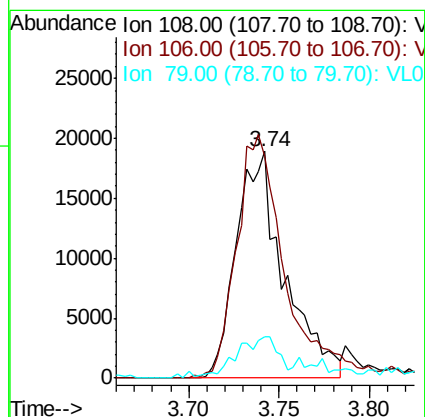
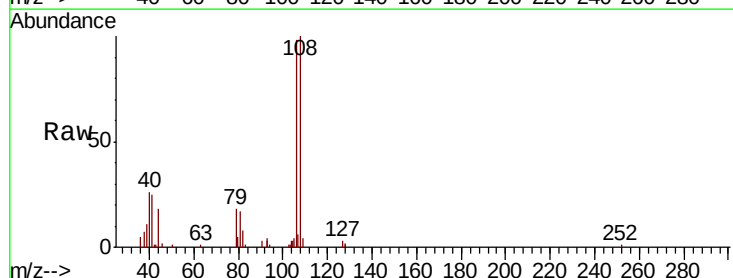
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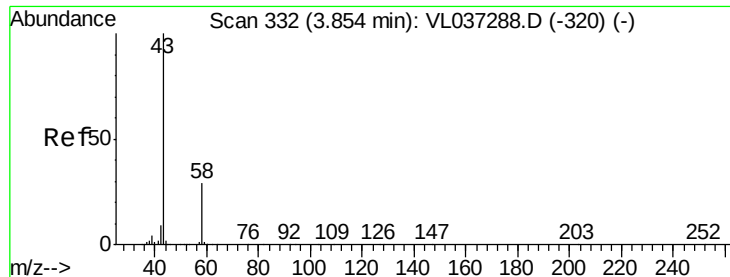
MMDadoda
8/2/2021 8:57:38 AM



#14
Bromoethene
Concen: 0.525 ppbv m
RT: 3.74 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
108	100		
106	111.9	86.2	129.2
79	27.1	13.3	19.9#





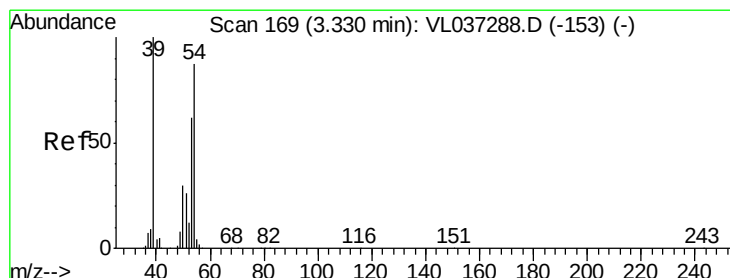
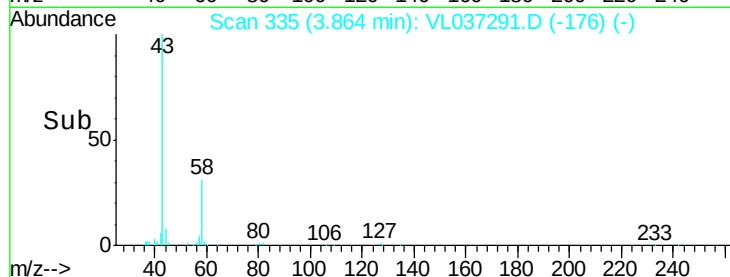
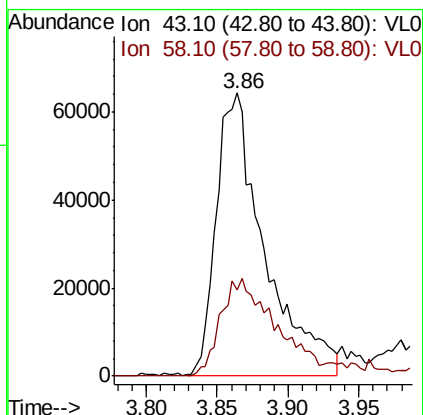
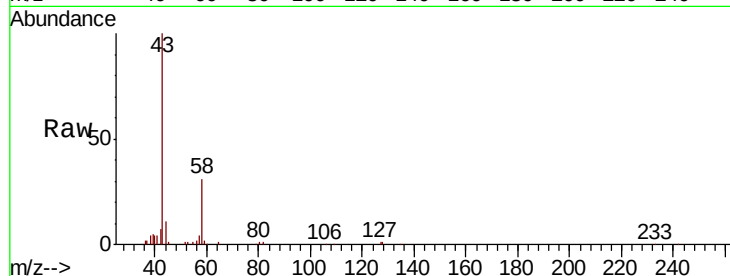
#15
Acetone
Concen: 1.105 ppbv m
RT: 3.86 min Scan# 335
Delta R.T. 0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 152706
Ion Ratio Lower Upper
43 100
58 45.8 24.2 36.4#

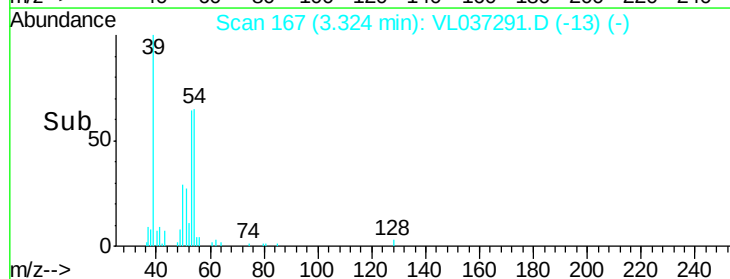
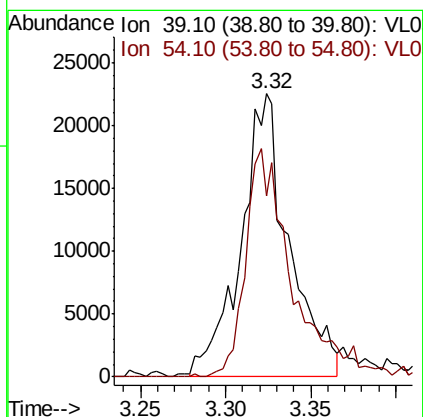
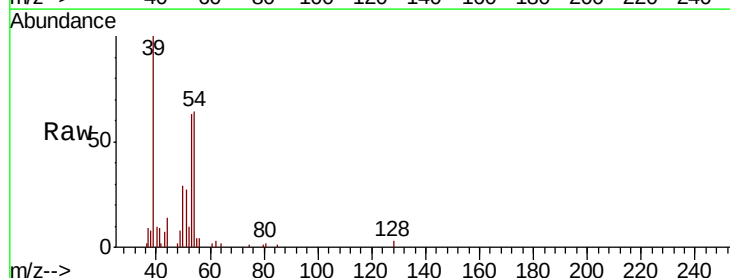
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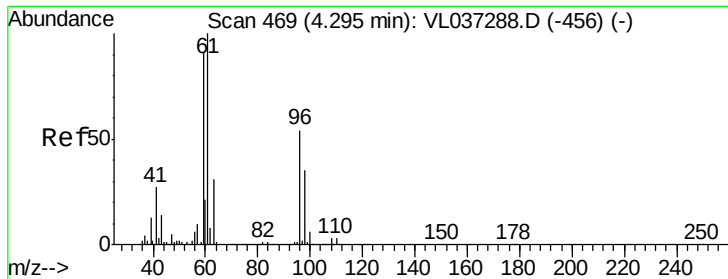
MMDadoda
8/2/2021 8:57:38 AM



#16
1,3-Butadiene
Concen: 0.552 ppbv m
RT: 3.32 min Scan# 167
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion: 39 Resp: 44312
Ion Ratio Lower Upper
39 100
54 79.6 63.9 95.9





#17

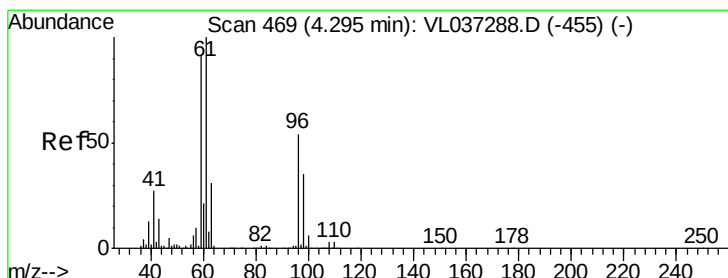
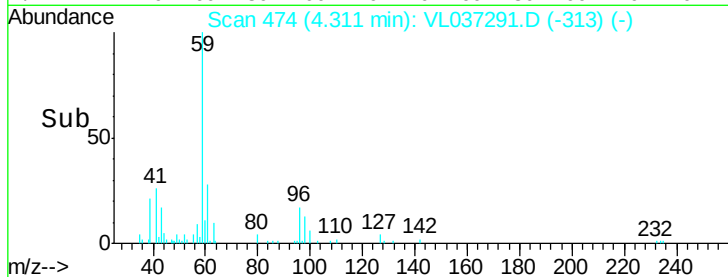
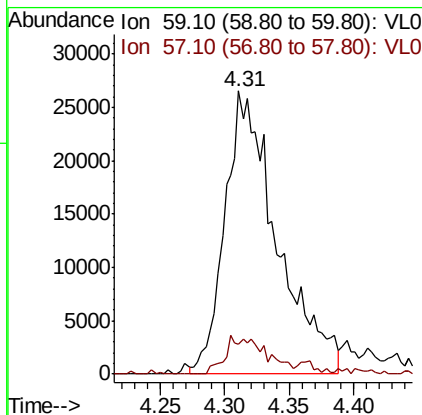
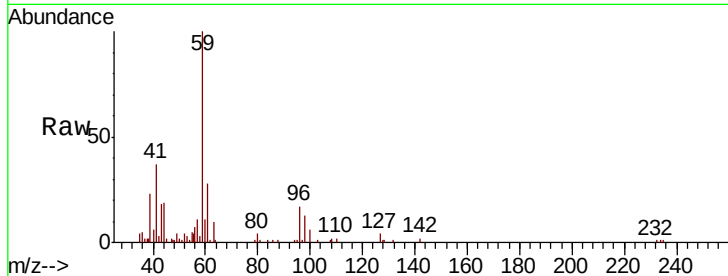
tert-Butyl alcohol
Concen: 0.593 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.02 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	59	Resp	74782
Ion Ratio	Lower	Upper	
59	100		
57	12.3	8.6	13.0

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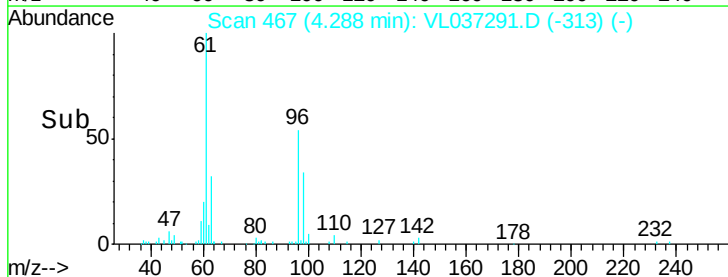
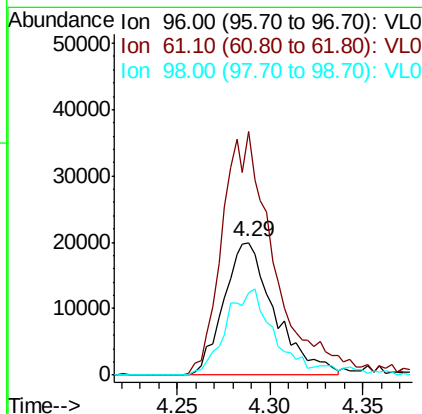
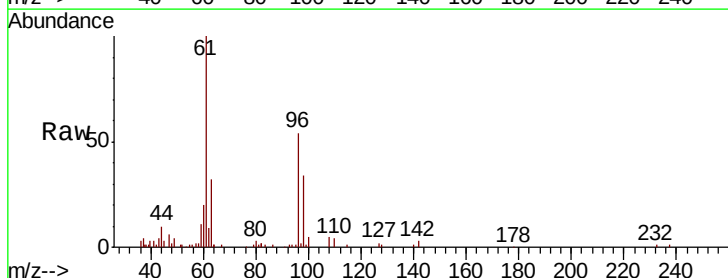
MMDadoda
8/2/2021 8:57:38 AM

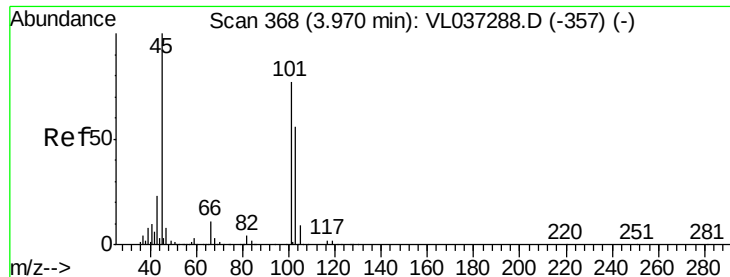


#18

1,1-Dichloroethene
Concen: 0.541 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	96	Resp	38049
Ion Ratio	Lower	Upper	
96	100		
61	182.5	148.3	222.5
98	61.9	51.4	77.0





#19

Isopropyl Alcohol

Concen: 0.526 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 43338

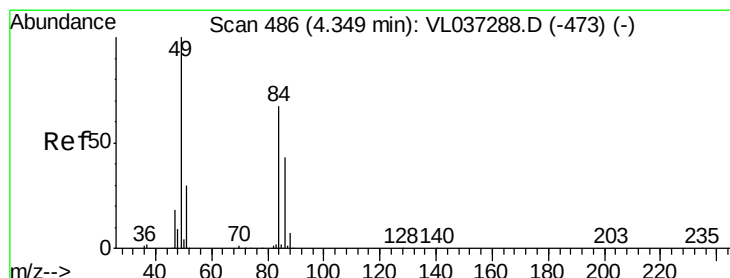
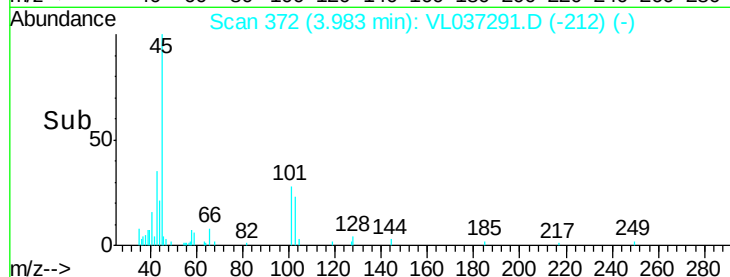
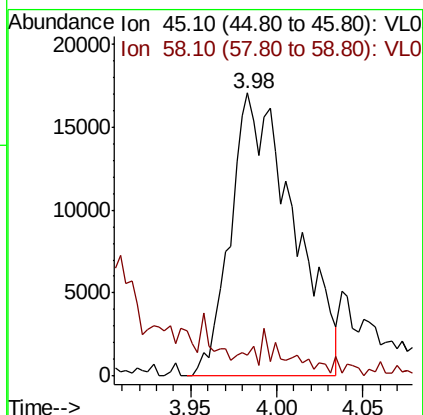
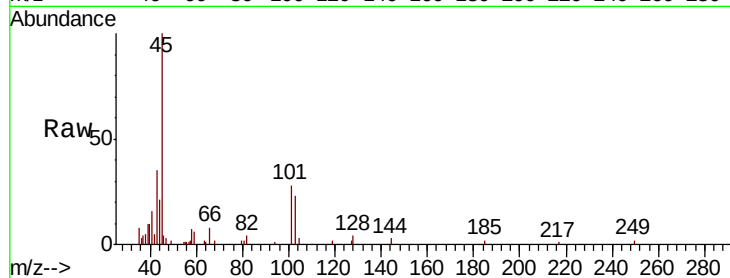
Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.2#

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#20

Methylene Chloride

Concen: 0.618 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion: 84 Resp: 53281

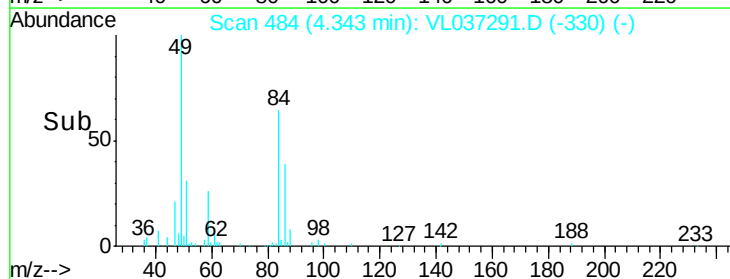
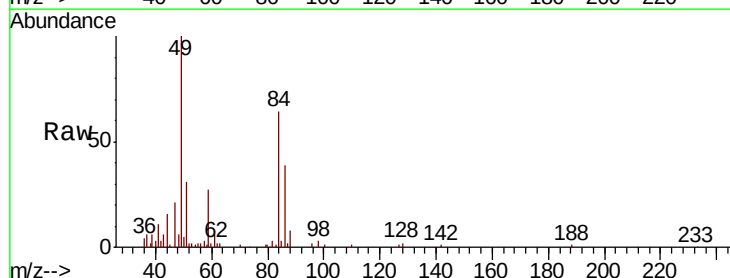
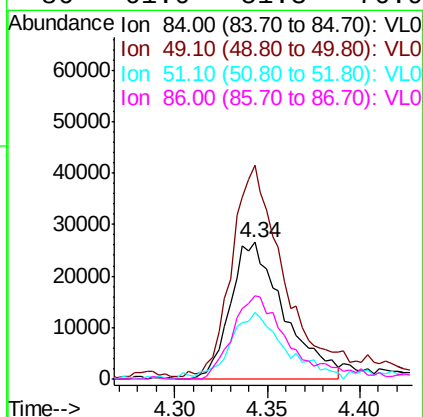
Ion Ratio Lower Upper

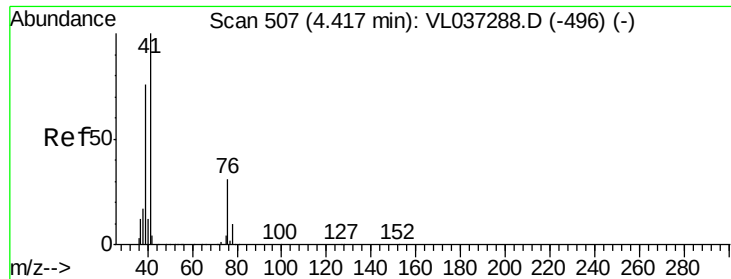
84 100

49 148.2 120.2 180.4

51 45.9 36.5 54.7

86 61.0 51.3 76.9





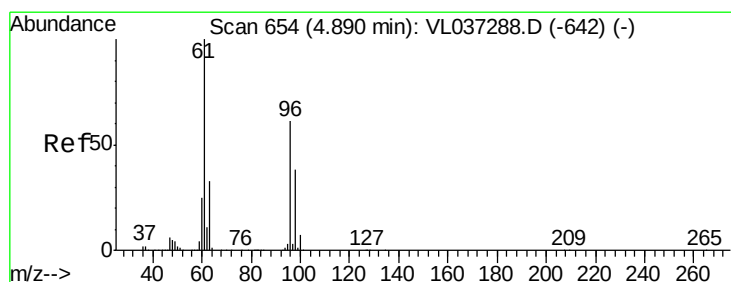
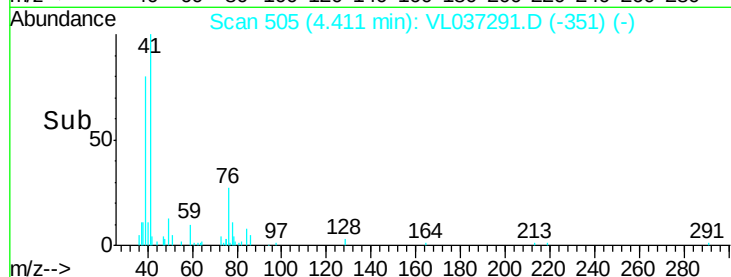
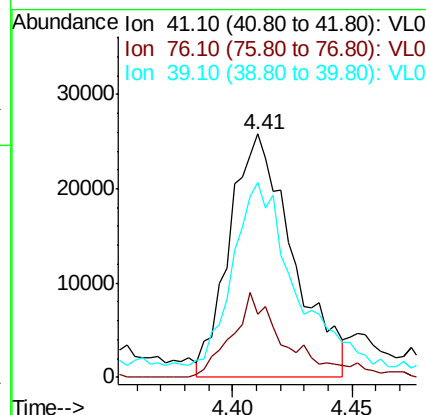
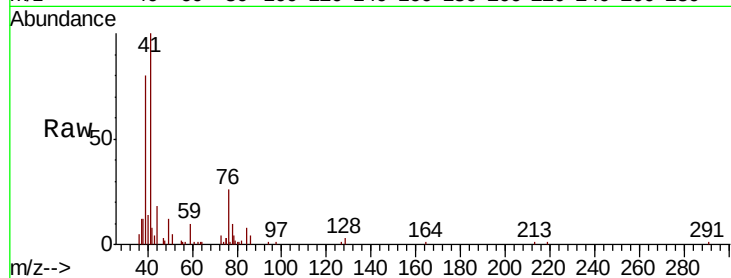
#21
Allvl Chloride
Concen: 0.463 ppbv m
RT: 4.41 min Scan# 505
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.3	24.7	37.1
39	94.8	64.5	96.7

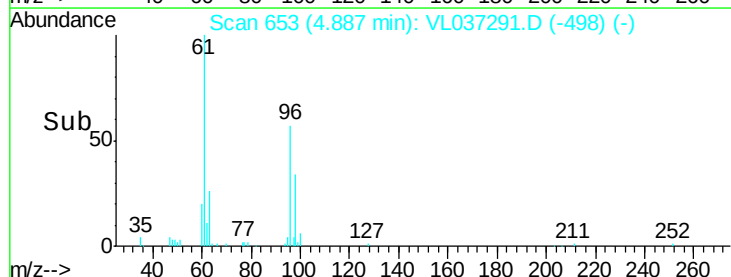
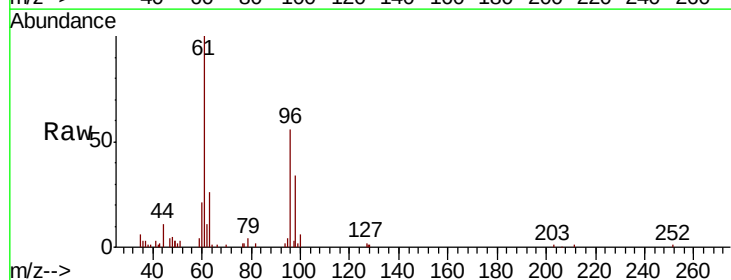
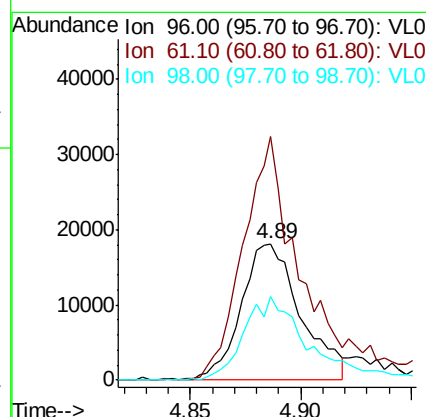
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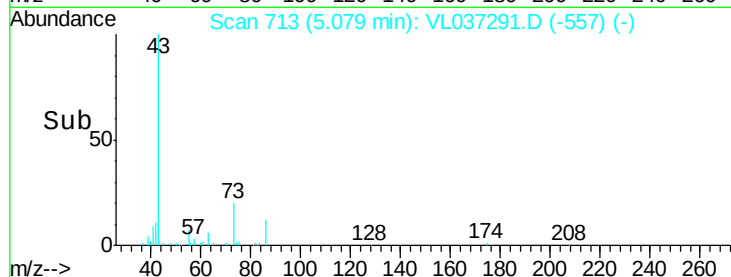
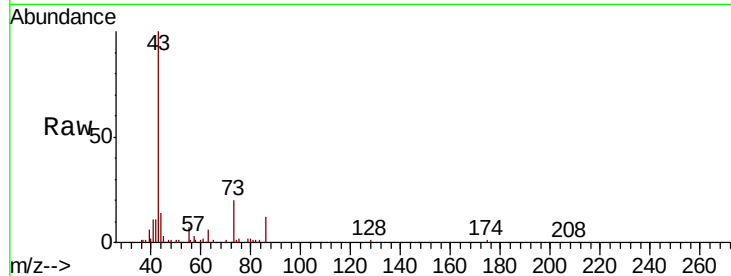
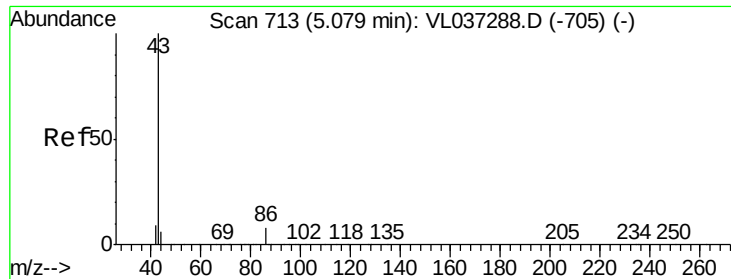
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 0.484 ppbv
RT: 4.89 min Scan# 653
Delta R.T. -0.00 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.8	131.1	196.7
98	60.1	49.9	74.9





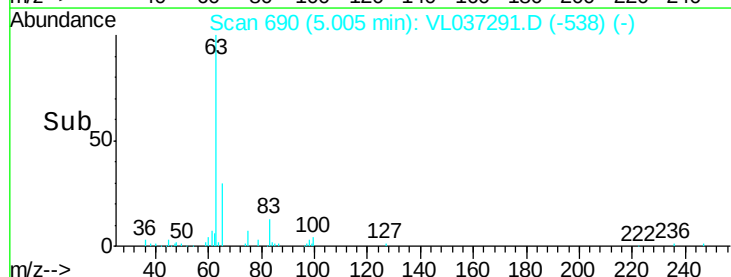
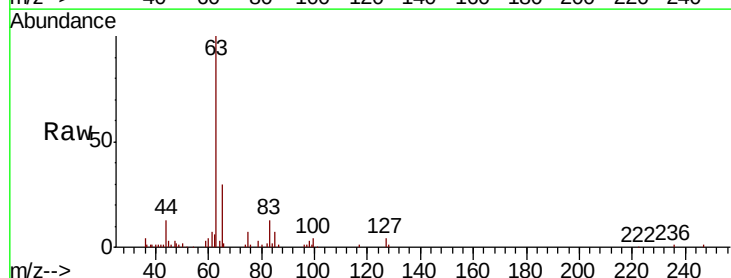
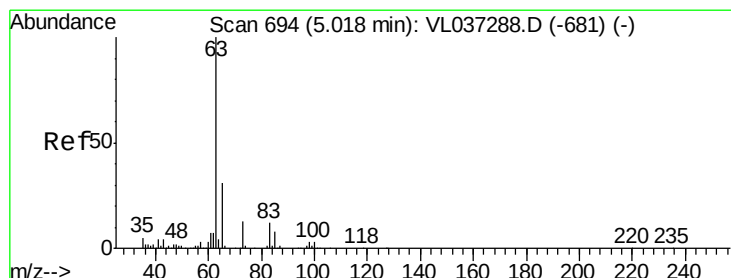
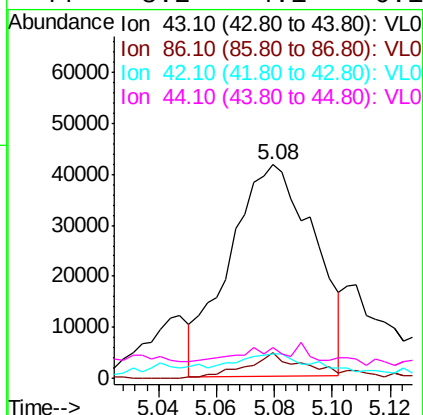
#23
 Vinyl Acetate
 Concen: 0.442 ppbv
 RT: 5.08 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tot Ion	43	Resp	84710
Ion Ratio	Lower	Upper	
43	100		
86	15.0	5.7	8.5#
42	8.3	8.1	12.1
44	8.2	4.1	6.1#

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

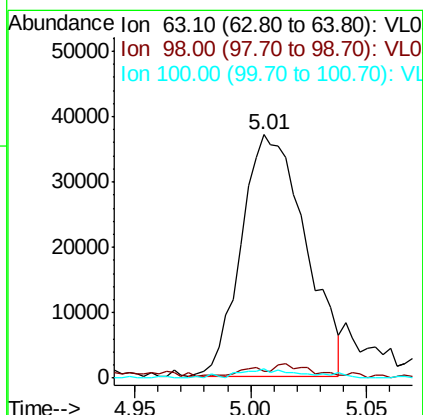
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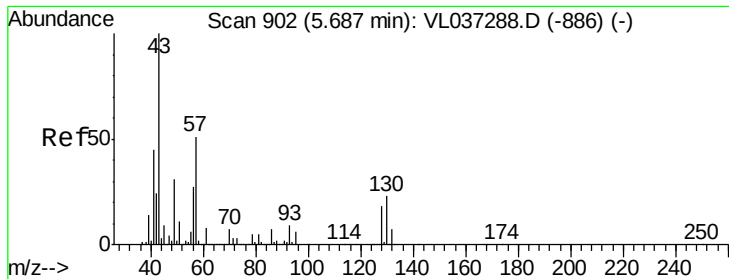
MMDadoda
 8/2/2021 8:57:38 AM



#24
 1,1-Dichloroethane
 Concen: 0.458 ppbv
 RT: 5.01 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	63	Resp	70552
Ion Ratio	Lower	Upper	
63	100		
98	2.0	2.0	5.8
100	3.2	1.4	4.2





#25

Ethyl Acetate

Concen: 0.537 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 161558

Ion Ratio Lower Upper

43 100

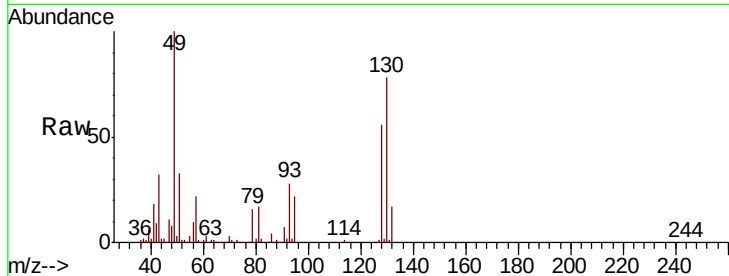
45 9.6 7.4 11.2

61 13.4 7.8 11.6#

70 6.6 5.4 8.2

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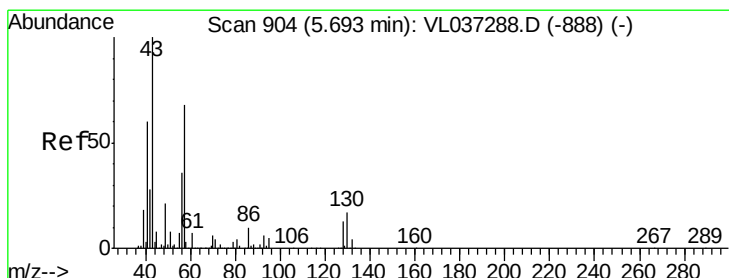
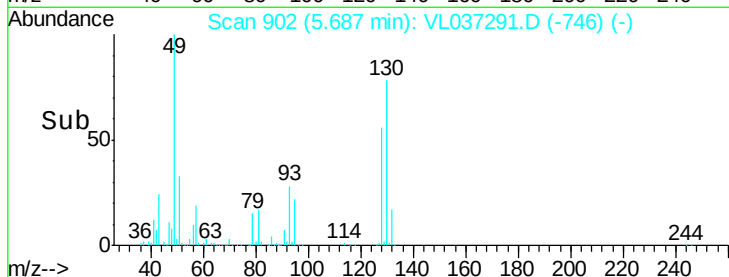
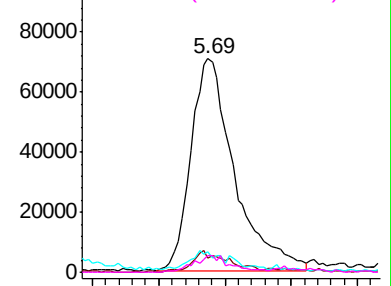


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.574 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion: 57 Resp: 88718

Ion Ratio Lower Upper

57 100

41 98.3 71.0 106.6

43 189.1 155.0 232.4

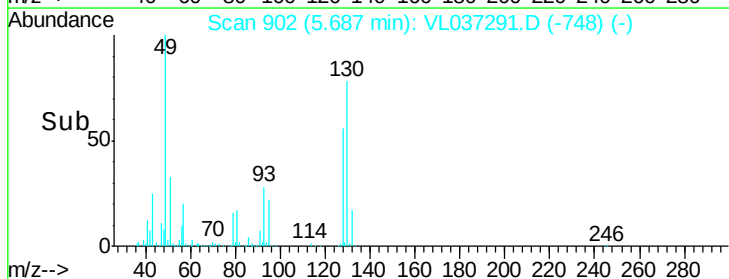
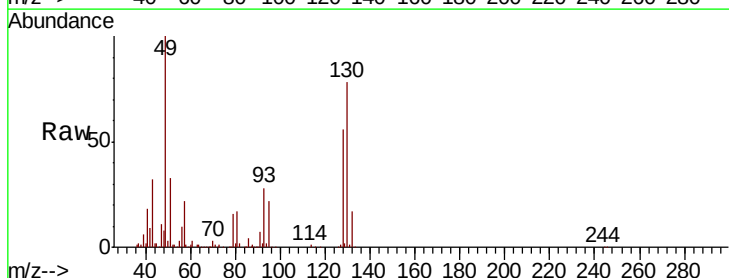
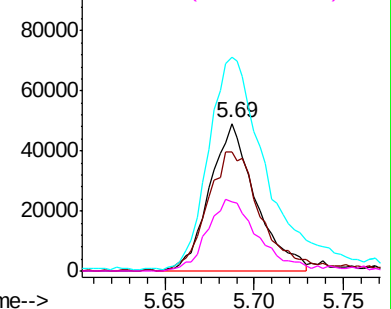
56 56.7 42.0 63.0

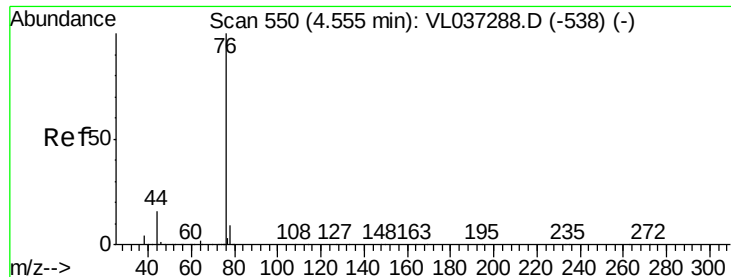
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.362 ppbv

RT: 4.55 min Scan# 549

Delta R.T. -0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

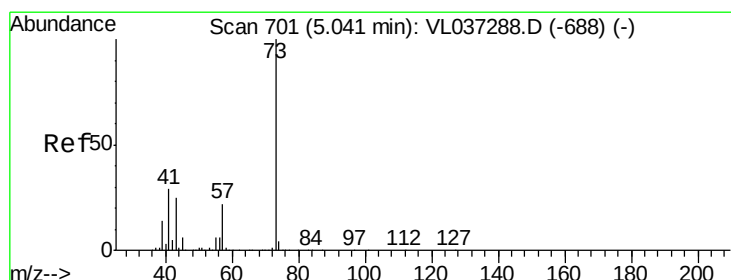
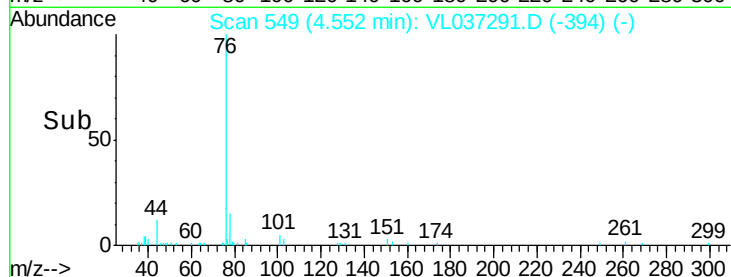
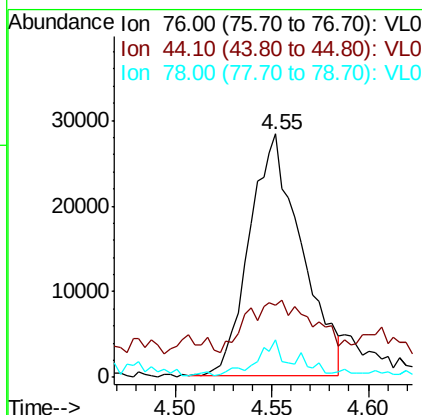
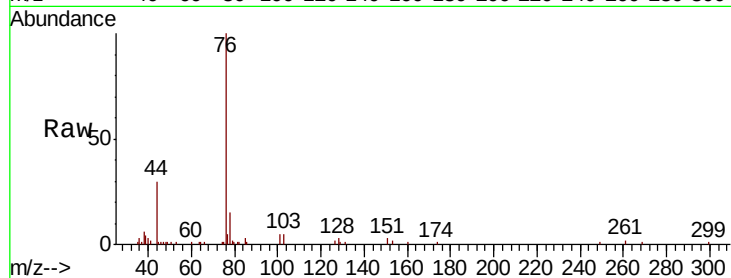
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	52753
Ion	Ratio	Lower	Upper
76	100		
44	41.4	14.1	21.1#
78	13.4	8.0	12.0#

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#28

Methyl tert-Butyl Ether

Concen: 0.535 ppbv

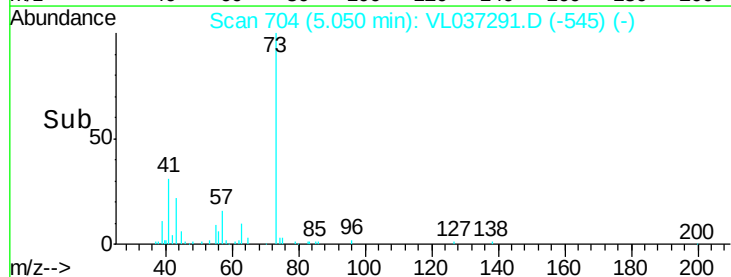
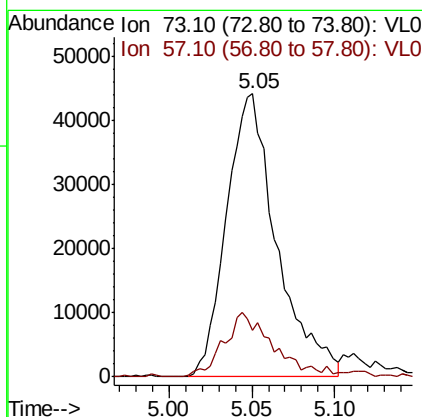
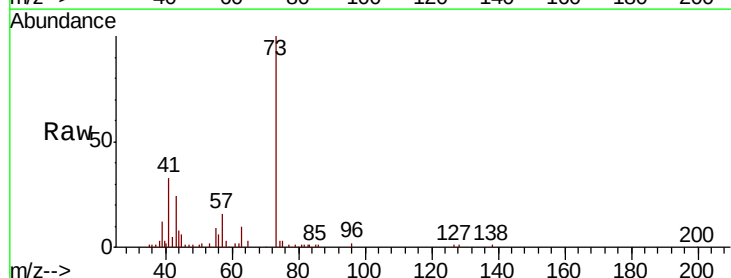
RT: 5.05 min Scan# 704

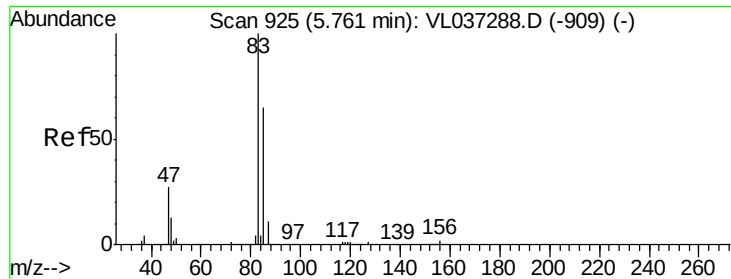
Delta R.T. 0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	73	Resp:	92736
Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.0	28.6





#29

Chloroform

Concen: 0.573 ppbv m

RT: 5.75 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tot Ion: 83 Resp: 132718

Ion Ratio Lower Upper

83 100

85 64.2 51.9 77.9

Instrument :

MSVOA_L

ClientSampleId :

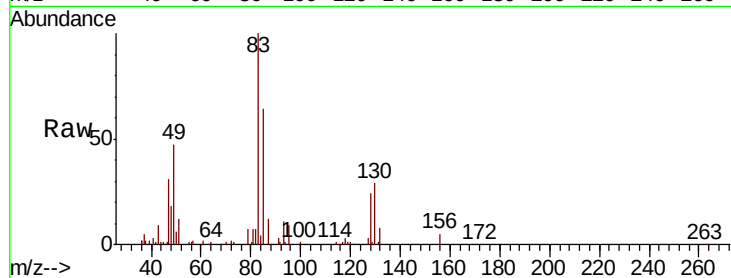
VSTDIC0.5

Manual Integrations

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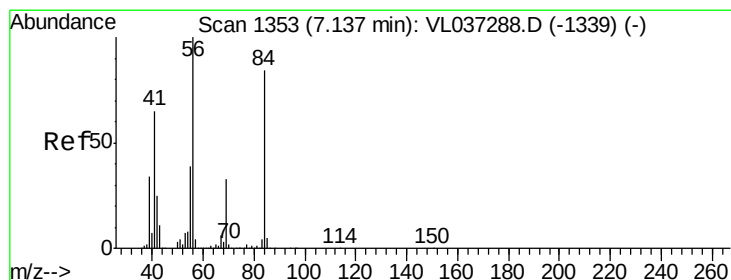
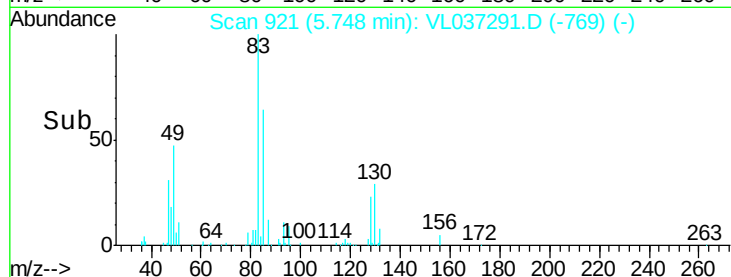
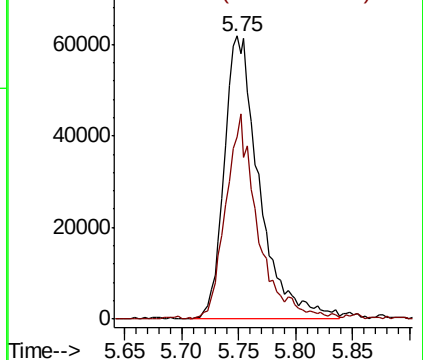
MMDadoda

8/2/2021 8:57:38 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.479 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. -0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

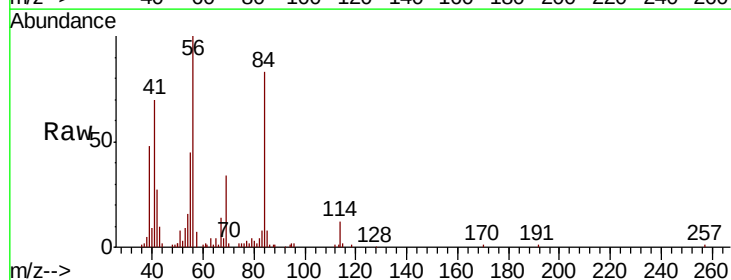
Tgt Ion: 84 Resp: 60528

Ion Ratio Lower Upper

84 100

56 118.0 104.1 156.1

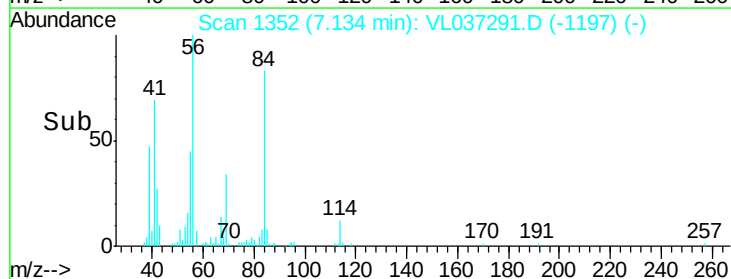
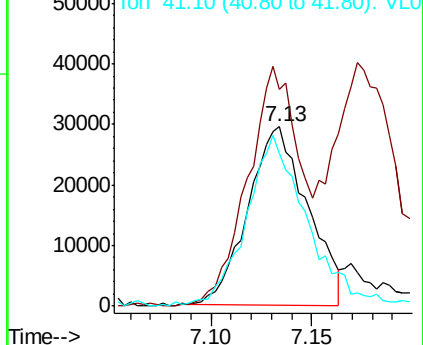
41 98.7 64.7 97.1#

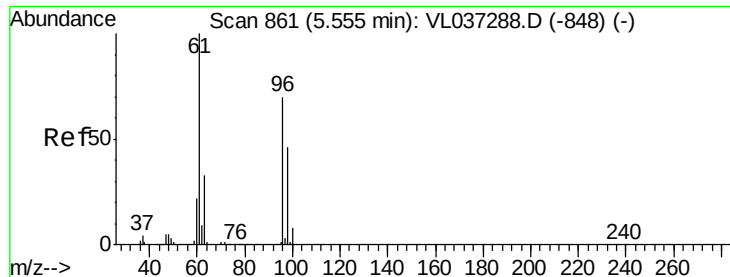


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





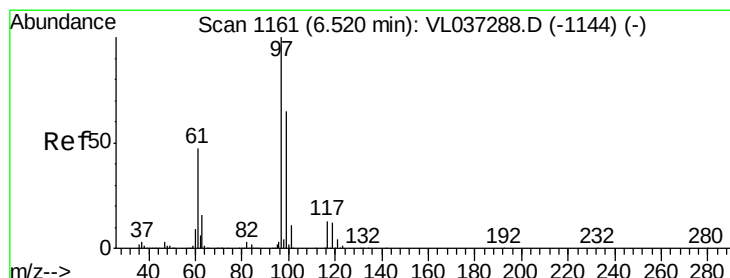
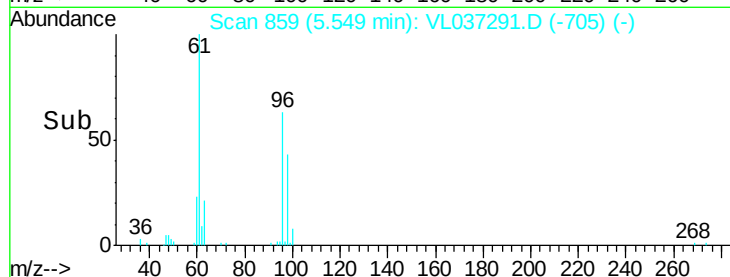
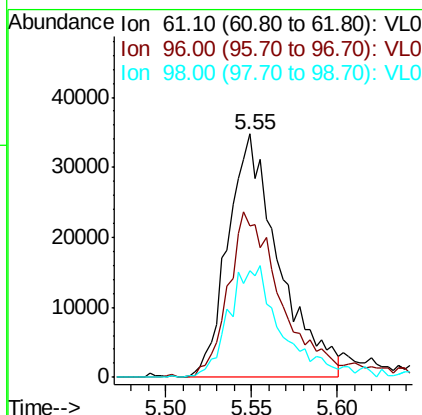
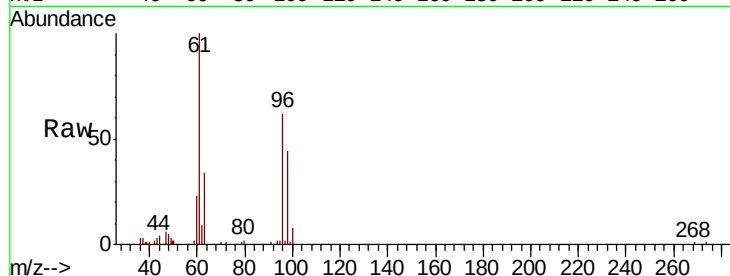
#31
 cis-1,2-Dichloroethene
 Concen: 0.518 ppbv
 RT: 5.55 min Scan# 859
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.4	55.9	83.9
98	43.0	37.1	55.7

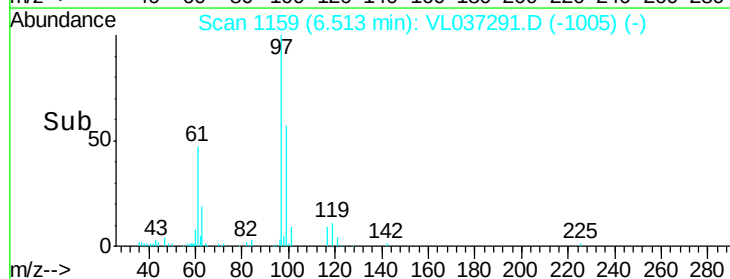
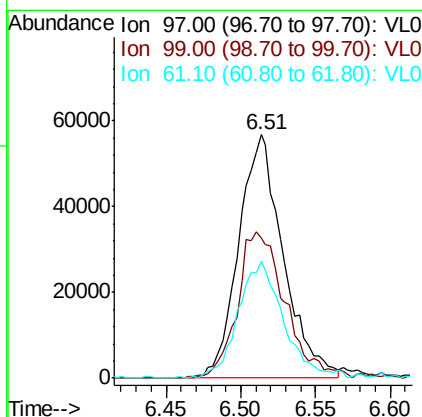
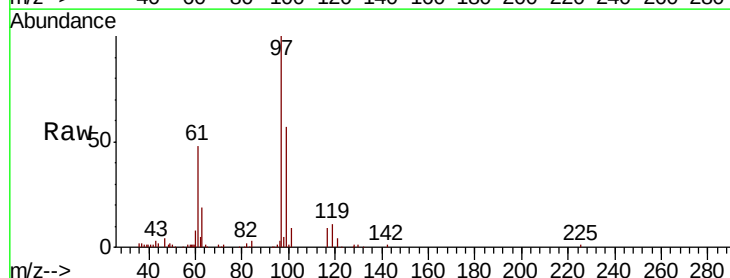
Manual Integrations
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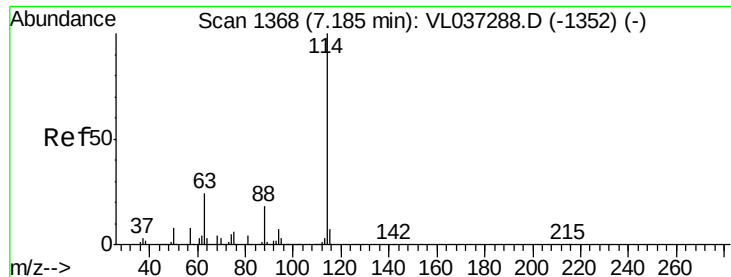
MMDadoda
 8/2/2021 8:57:38 AM



#32
 1,1,1-Trichloroethane
 Concen: 0.476 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.5	78.7
61	49.5	38.2	57.4





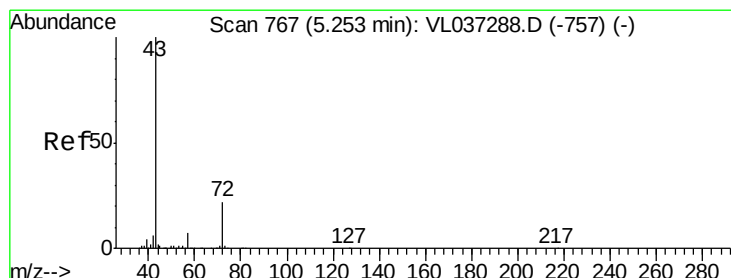
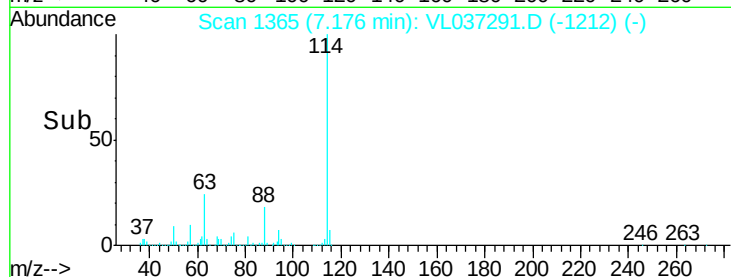
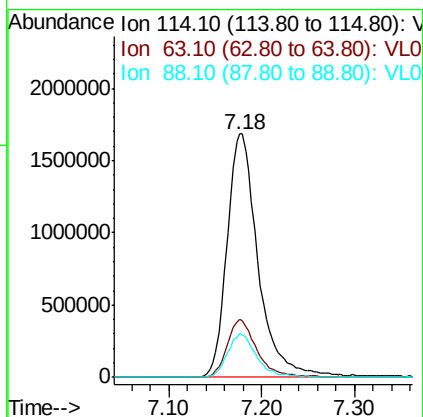
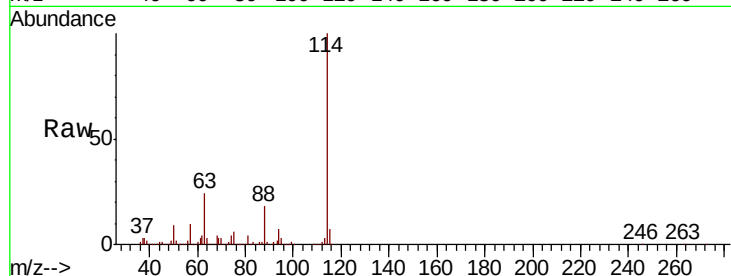
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.2	19.0	28.4
88	17.2	14.0	21.0

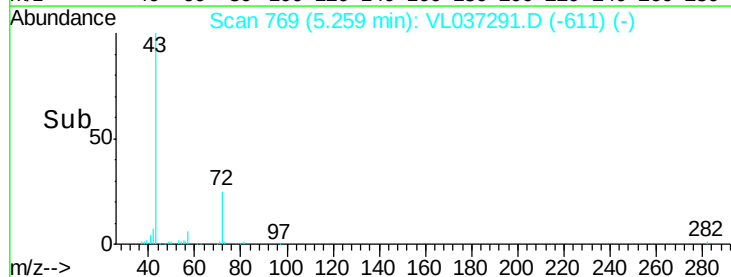
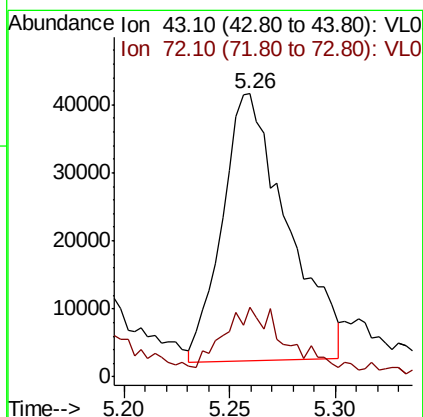
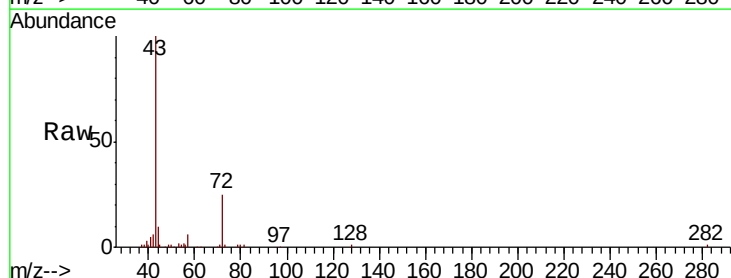
Manual Integrations
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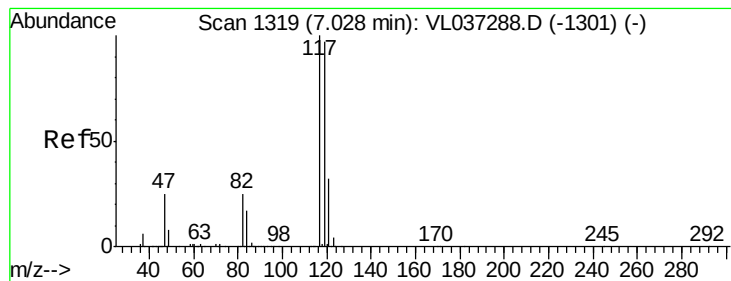
MMDadoda
 8/2/2021 8:57:38 AM



#34
 2-Butanone
 Concen: 0.552 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.6	18.5	27.7#





#35

Carbon Tetrachloride

Concen: 0.446 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

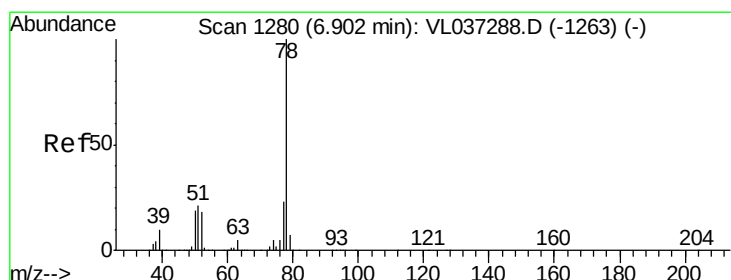
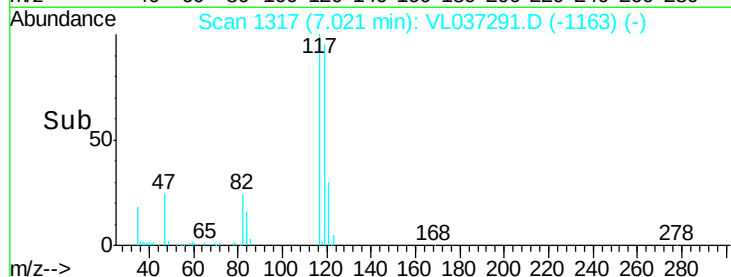
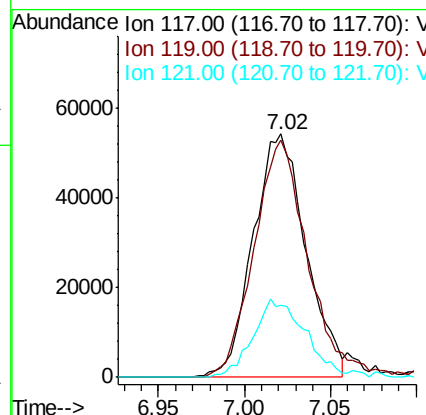
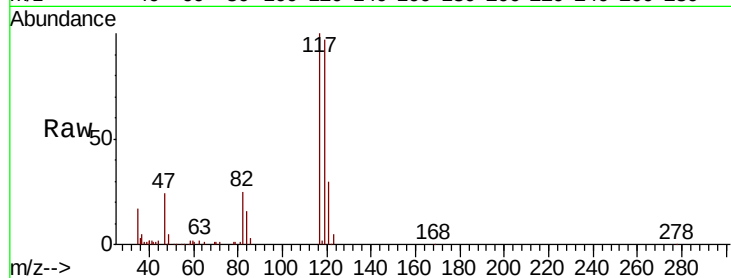
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	115909
Ion Ratio	Lower	Upper	
117	100		
119	97.3	77.4	116.2
121	29.8	25.8	38.8

Manual Integrations
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#36

Benzene

Concen: 0.522 ppbv

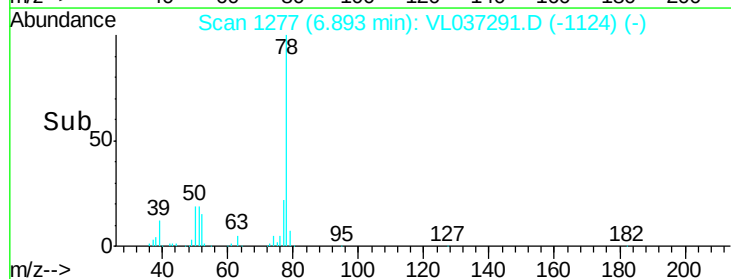
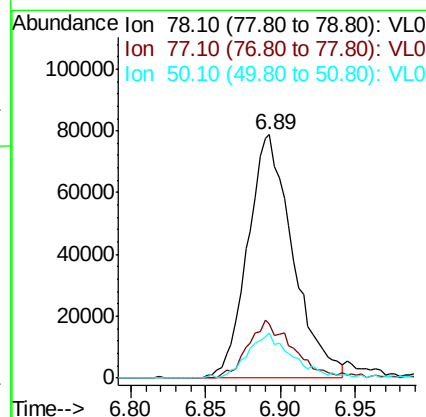
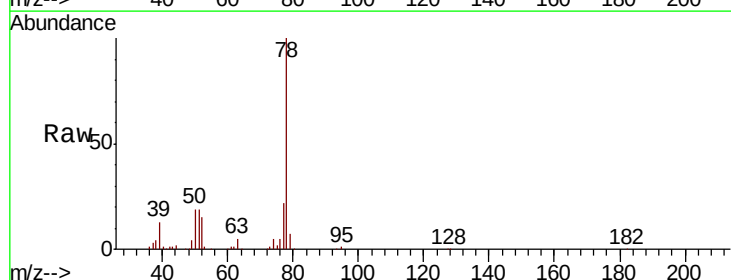
RT: 6.89 min Scan# 1277

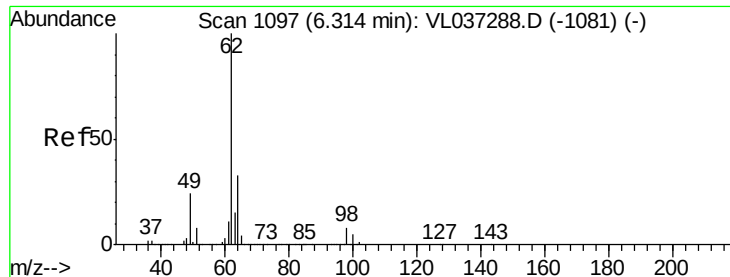
Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	78	Resp:	165541
Ion Ratio	Lower	Upper	
78	100		
77	22.3	18.3	27.5
50	18.7	15.5	23.3





#37

1,2-Dichloroethane

Concen: 0.432 ppbv m

RT: 6.30 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 78487

Ion Ratio Lower Upper

62 100

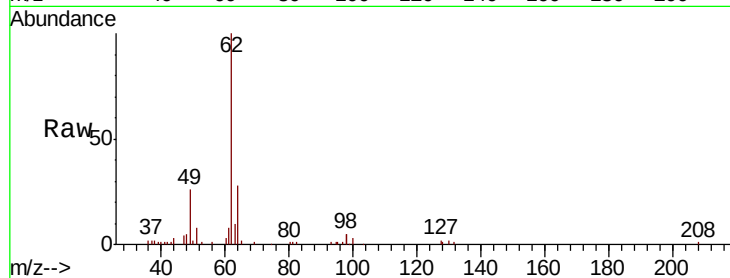
98 9.1 5.8 8.6#

Manual Integrations

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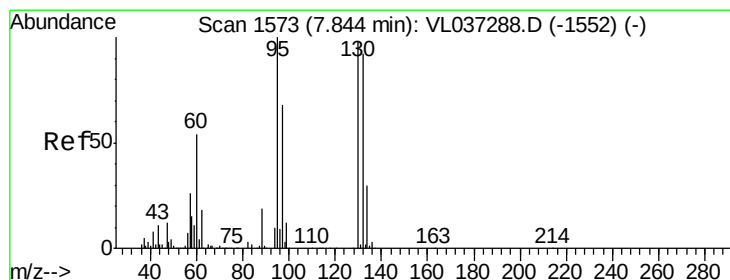
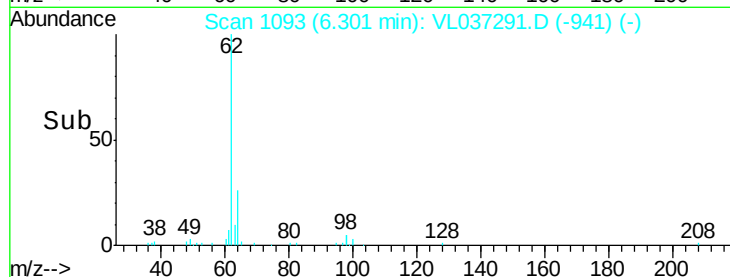
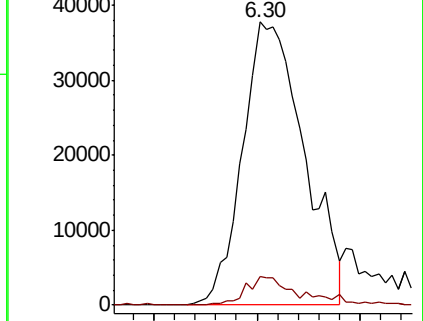
MMDadoda

8/2/2021 8:57:38 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.482 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion: 130 Resp: 72972

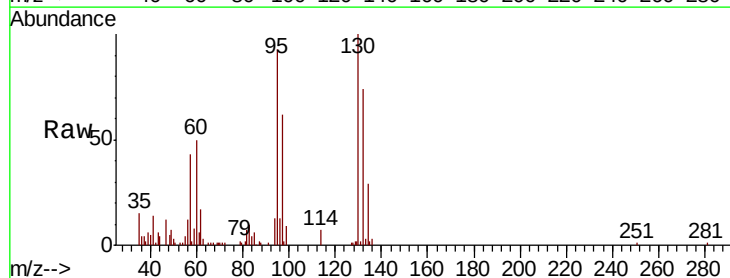
Ion Ratio Lower Upper

130 100

95 93.1 82.0 123.0

132 73.8 75.0 112.6#

97 61.6 56.0 84.0

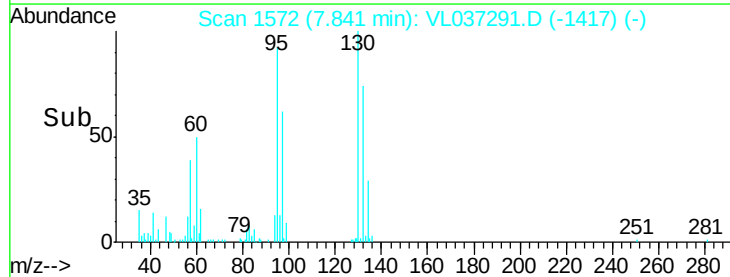
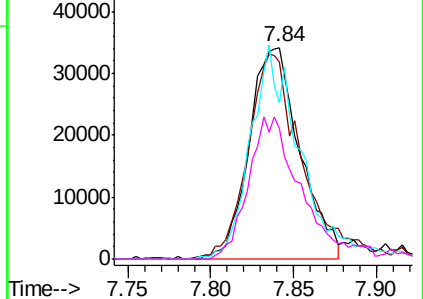


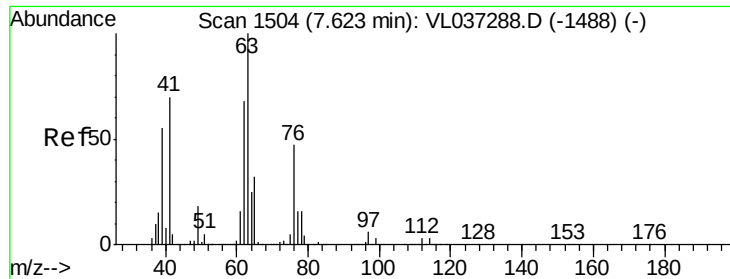
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.555 ppbv m

RT: 7.61 min Scan# 1499

Delta R.T. -0.02 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 63 Resp: 65176

Ion Ratio Lower Upper

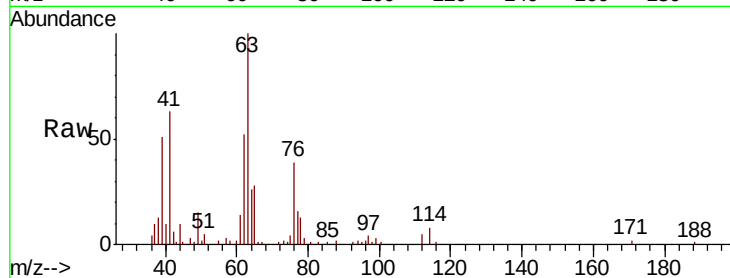
63 100

41 63.3 56.4 84.6

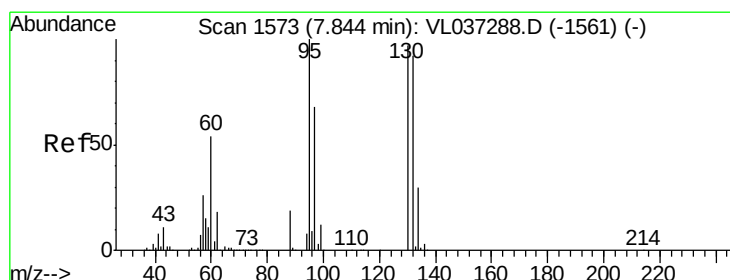
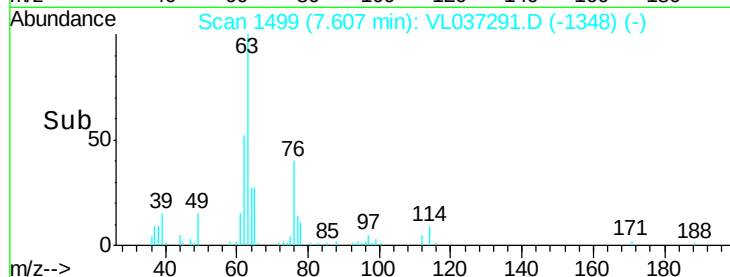
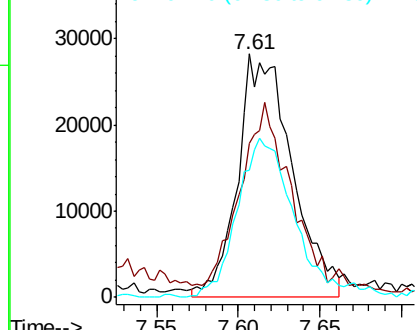
62 52.2 54.6 82.0#

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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.619 ppbv m

RT: 7.87 min Scan# 1582

Delta R.T. 0.03 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion: 88 Resp: 19801

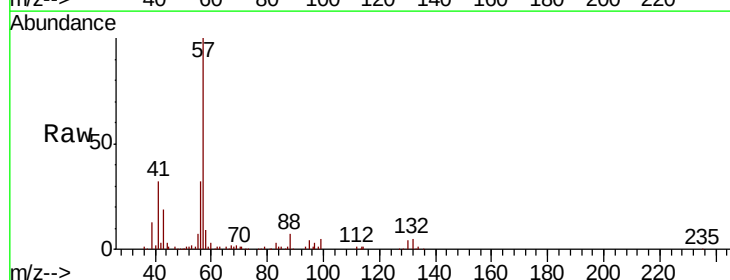
Ion Ratio Lower Upper

88 100

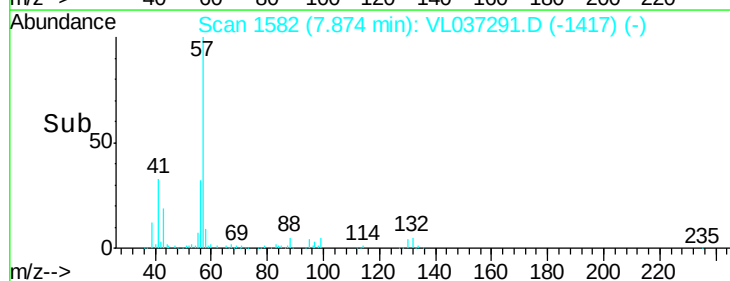
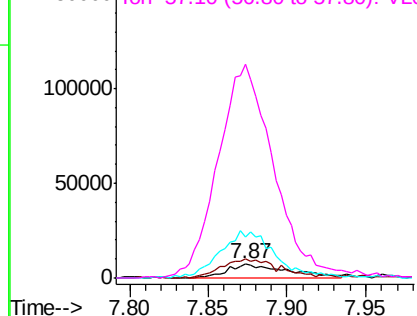
58 0.0 119.2 178.8#

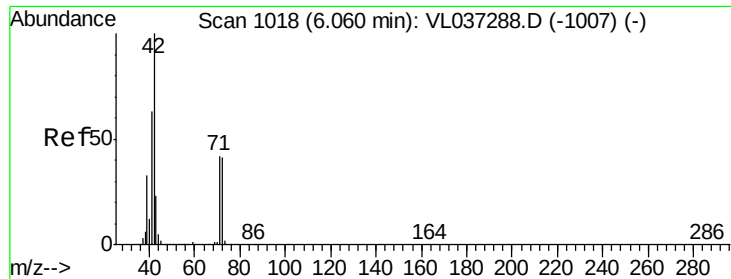
43 0.0 282.2 423.2#

57 0.0 1288.7 1933.1#



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





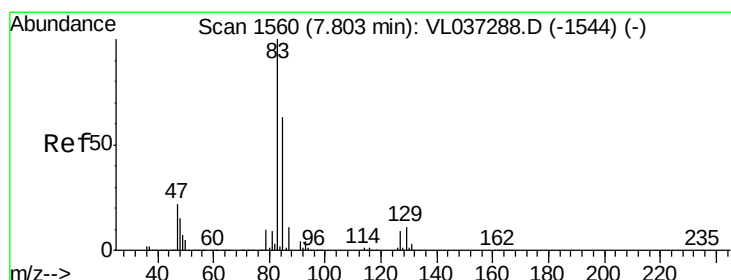
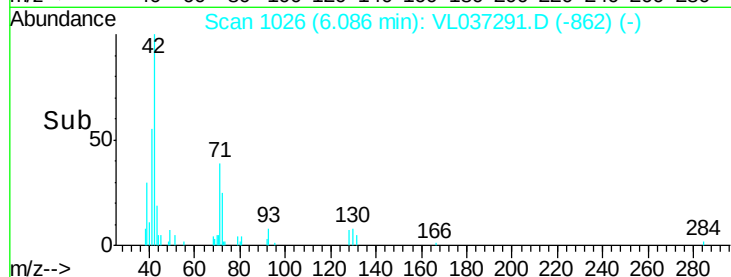
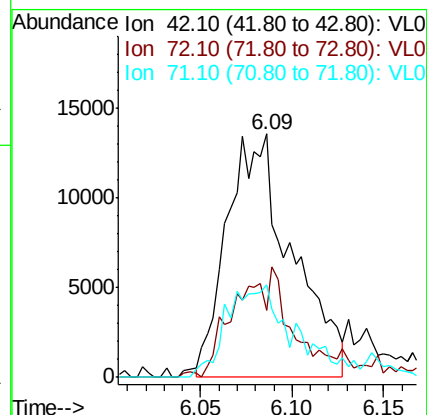
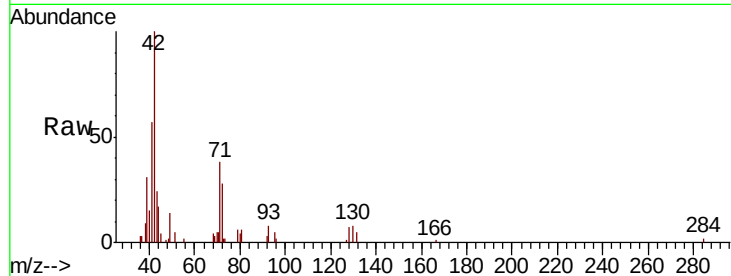
#41
Tetrahydrofuran
Concen: 0.474 ppbv m
RT: 6.09 min Scan# 1026
Delta R.T. 0.03 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.0	49.6#
71	0.0	32.7	49.1#

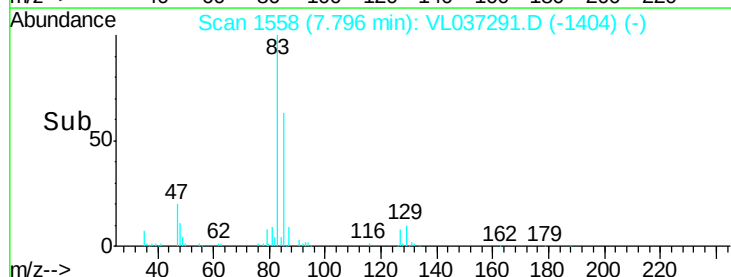
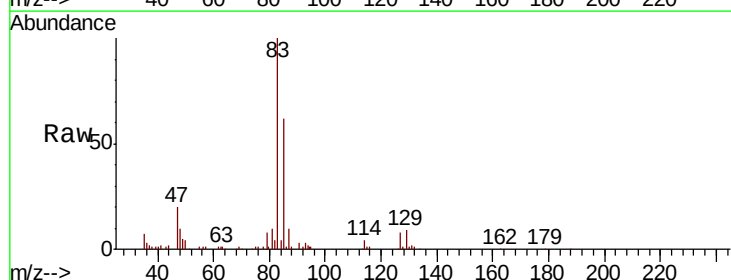
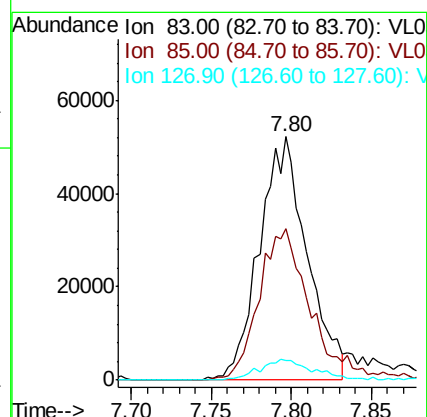
Manual Integrations
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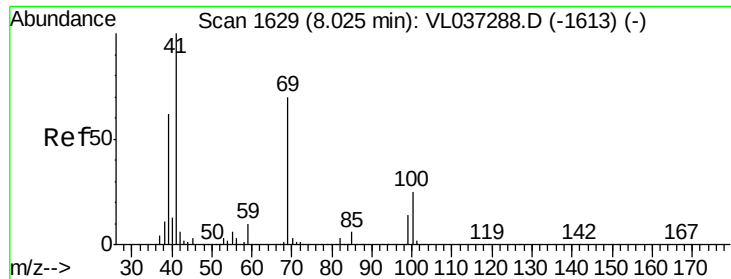
MMDadoda
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#42
Bromodichloromethane
Concen: 0.426 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.5	75.7
127	8.2	7.0	10.6





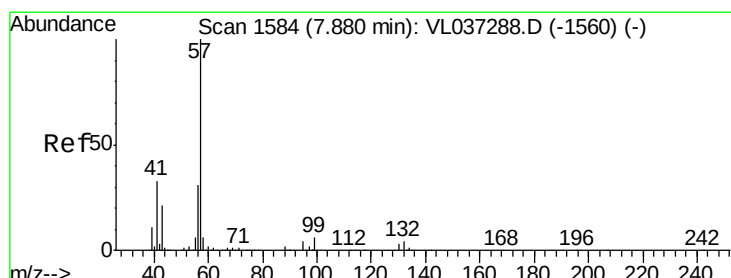
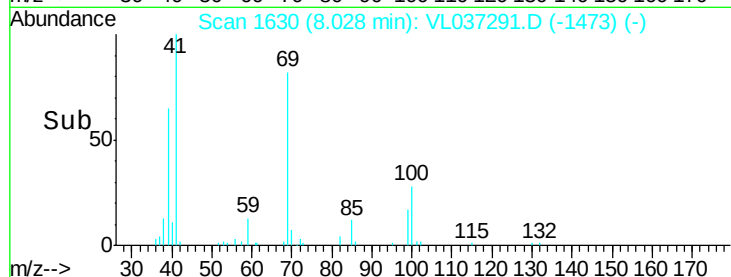
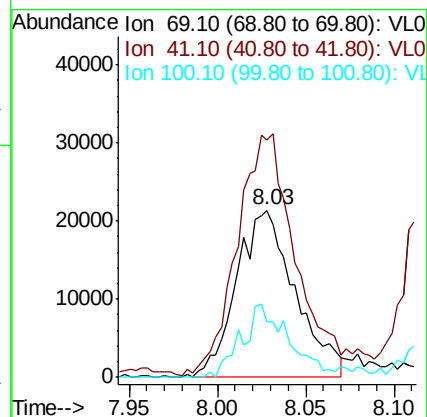
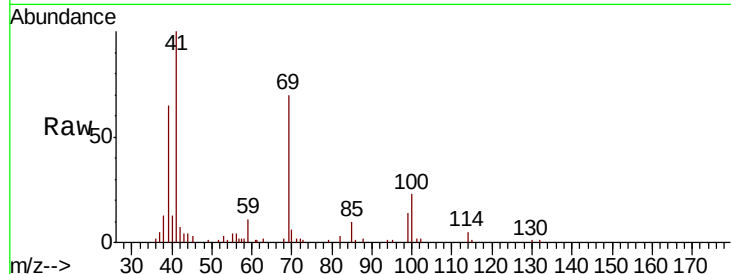
#43
Methyl Methacrylate
Concen: 0.452 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	116.5	174.7#
100	0.0	28.7	43.1#

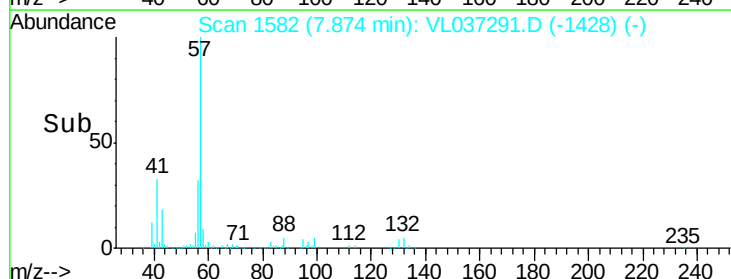
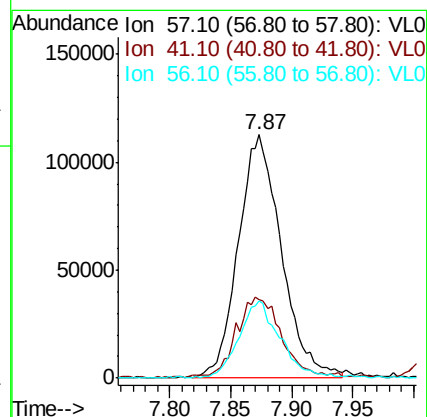
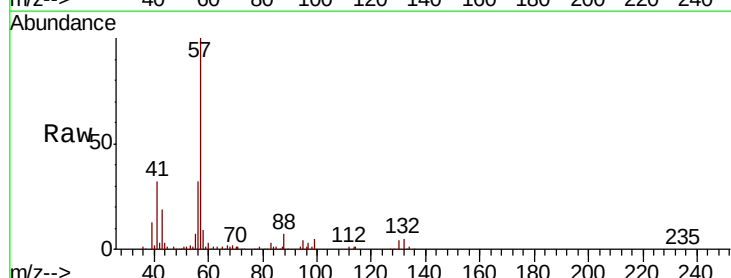
Manual Integrations
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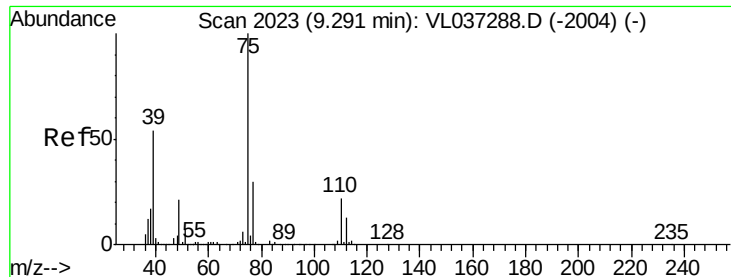
MMDadoda
8/2/2021 8:57:38 AM



#44
2,2,4-Trimethylpentane
Concen: 0.514 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.9	26.6	40.0
56	31.2	25.3	37.9





#45

t-1,3-Dichloropropene

Concen: 0.369 ppbv m

RT: 9.28 min Scan# 2020

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 35034

Ion Ratio Lower Upper

75 100

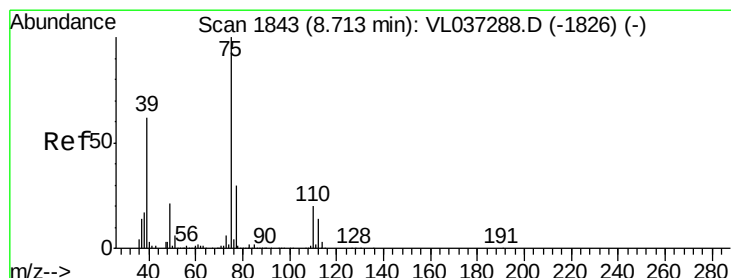
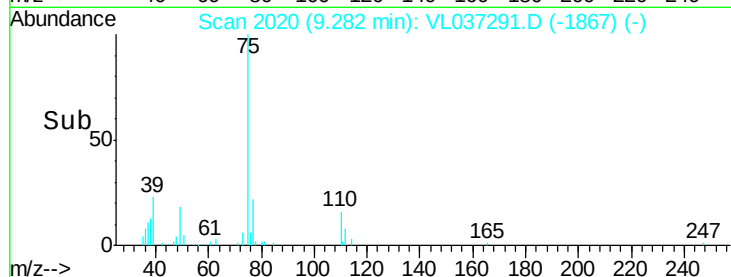
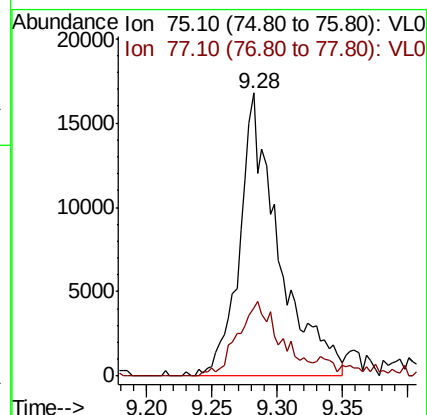
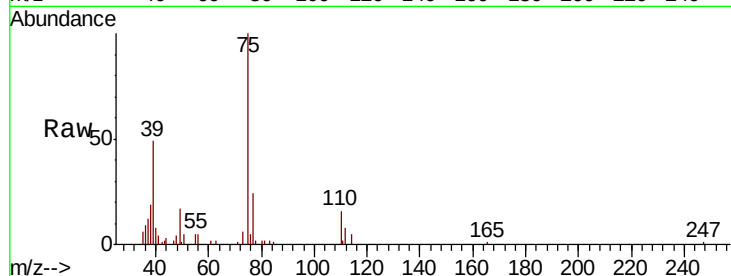
77 24.1 24.3 36.5#

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#46

cis-1,3-Dichloropropene

Concen: 0.352 ppbv

RT: 8.71 min Scan# 1841

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

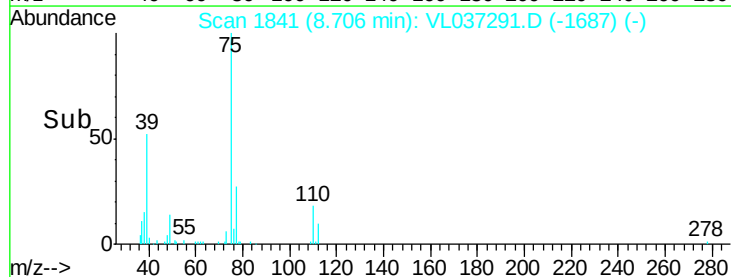
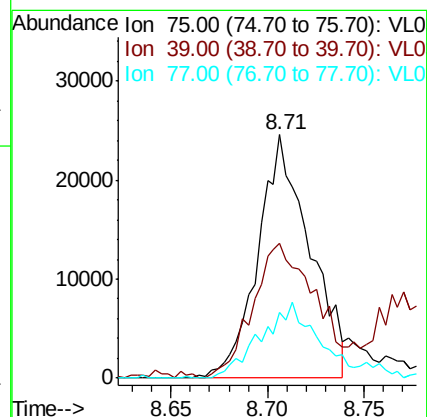
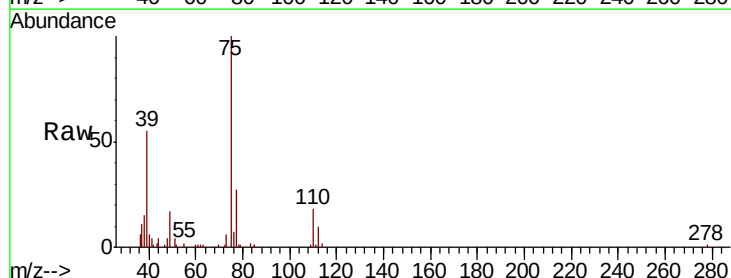
Tgt Ion: 75 Resp: 45858

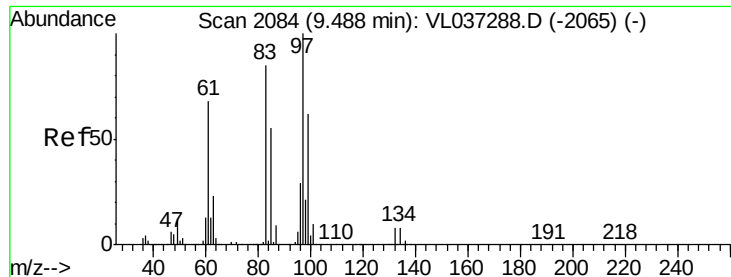
Ion Ratio Lower Upper

75 100

39 53.7 49.8 74.6

77 26.8 24.3 36.5





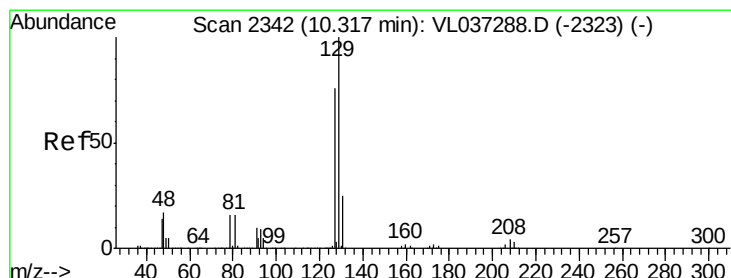
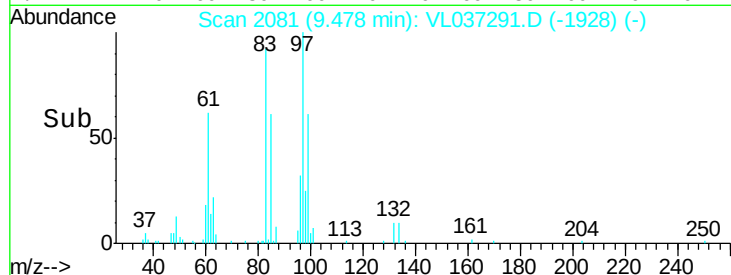
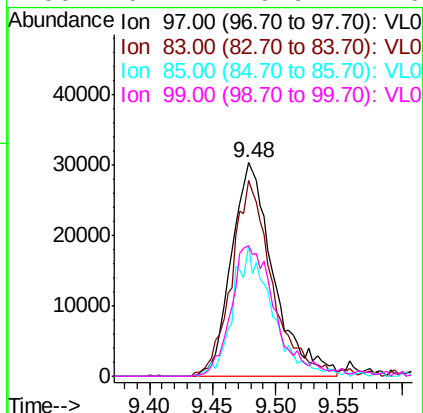
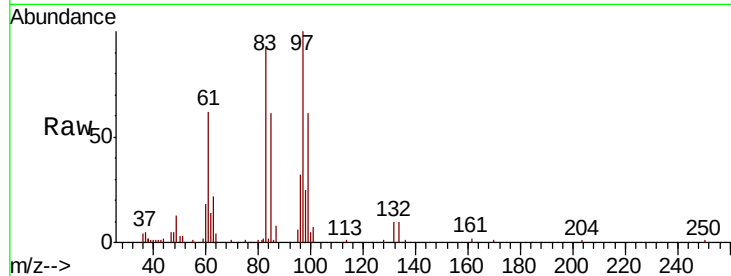
#47
 1,1,2-Trichloroethane
 Concen: 0.522 ppbv m
 RT: 9.48 min Scan# 2081
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	97	Resp	70269
Ion	Ratio	Lower	Upper
97	100		
83	91.6	67.7	101.5
85	60.9	43.8	65.6
99	61.2	49.9	74.9

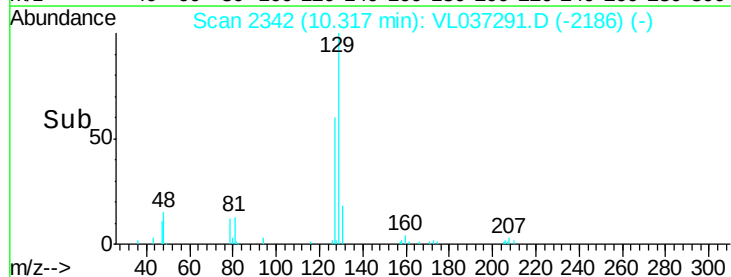
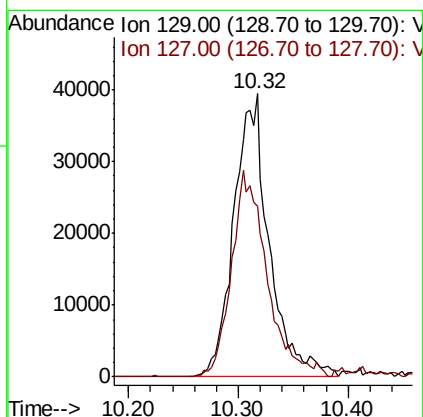
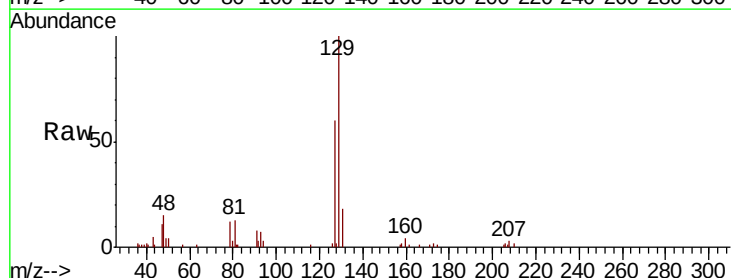
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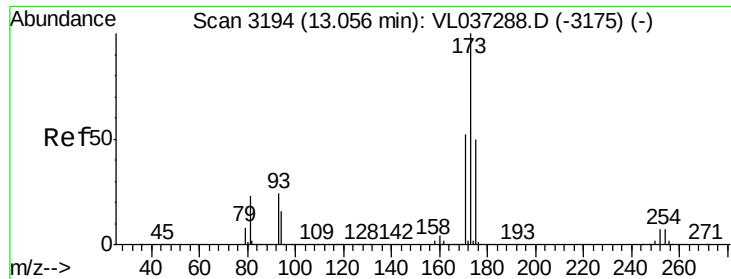
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#48
 Dibromochloromethane
 Concen: 0.418 ppbv m
 RT: 10.32 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	129	Resp	88287
Ion	Ratio	Lower	Upper
129	100		
127	74.4	39.5	118.3





#49

Bromoform

Concen: 0.350 ppbv

RT: 13.05 min Scan# 3191

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

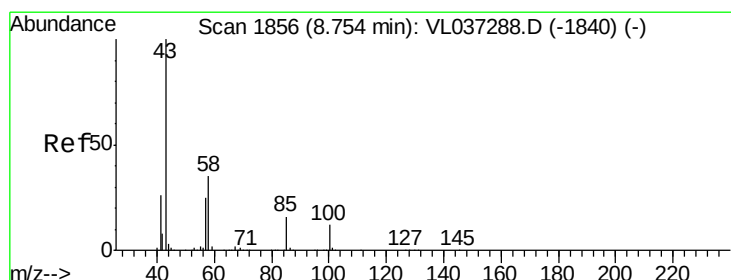
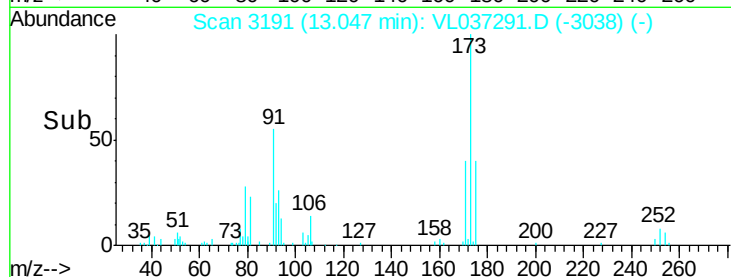
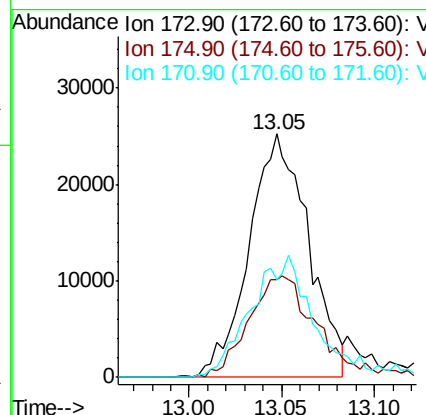
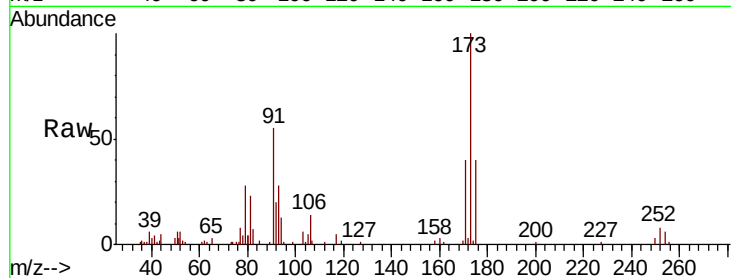
ClientSampleId :

VSTDIC0.5

Tot Ion:	173	Resp:	55926
Ion	Ratio	Lower	Upper
173	100		
175	49.3	40.4	60.6
171	55.5	43.3	64.9

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#50

4-Methyl-2-Pentanone

Concen: 0.483 ppbv m

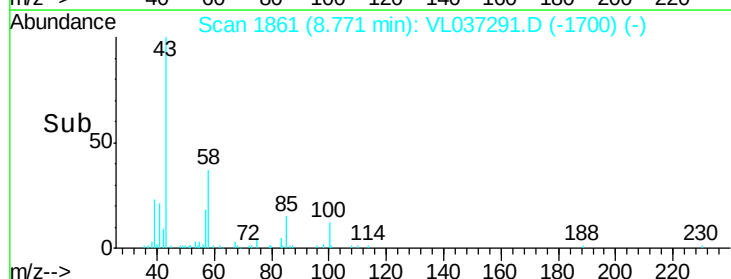
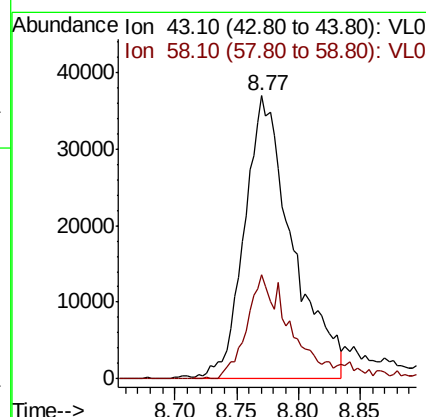
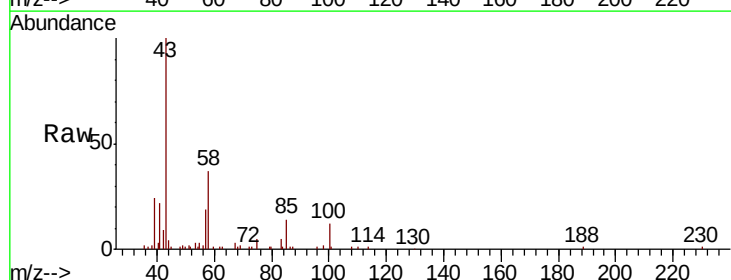
RT: 8.77 min Scan# 1861

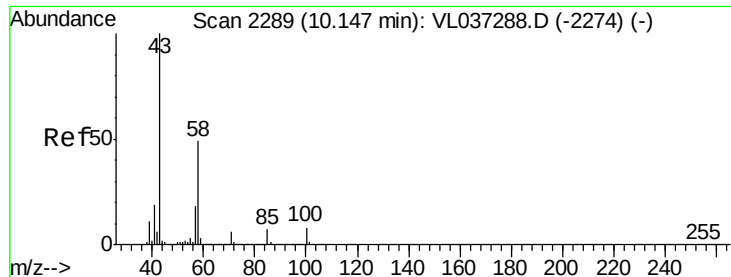
Delta R.T. 0.02 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	43	Resp:	99801
Ion	Ratio	Lower	Upper
43	100		
58	35.3	29.2	43.8





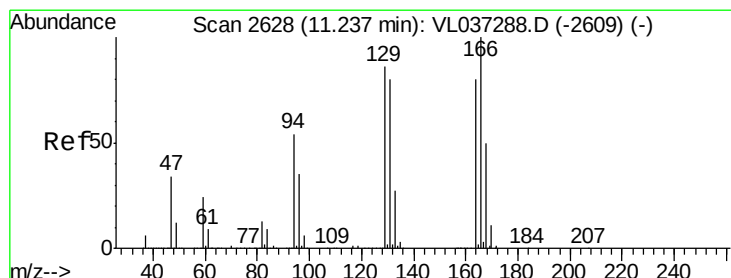
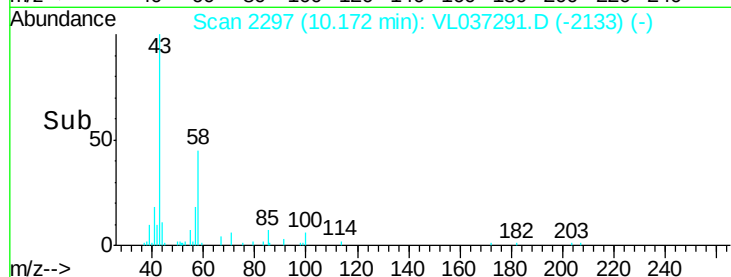
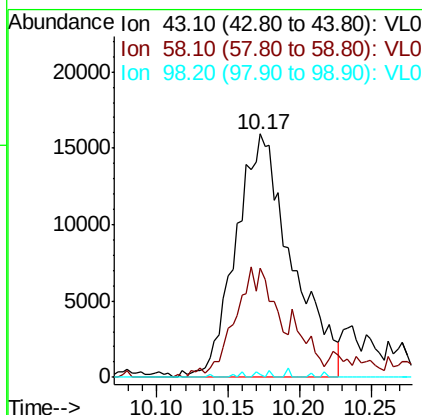
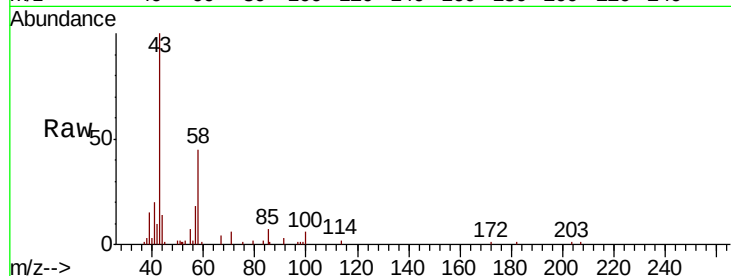
#51
2-Hexanone
Concen: 0.434 ppbv m
RT: 10.17 min Scan# 2297
Delta R.T. 0.03 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.4	39.0	58.4
98	0.3	0.4	0.6#

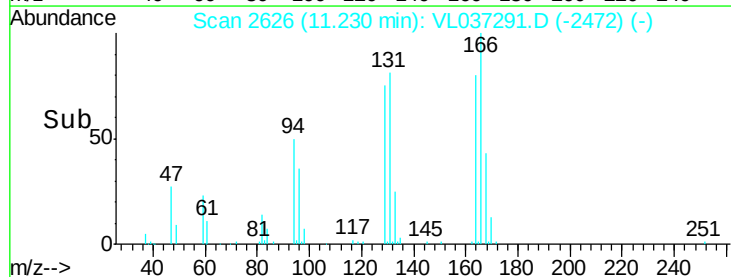
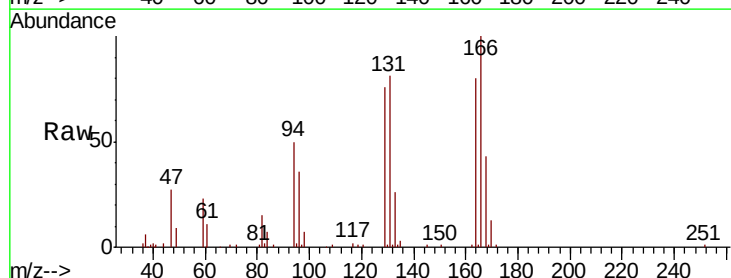
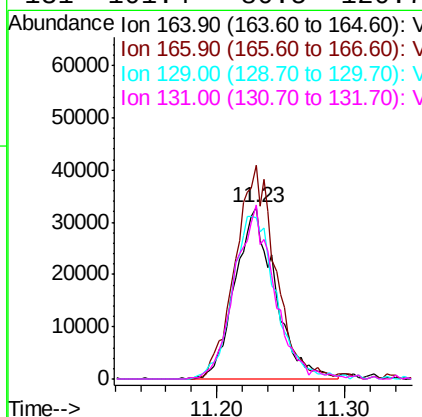
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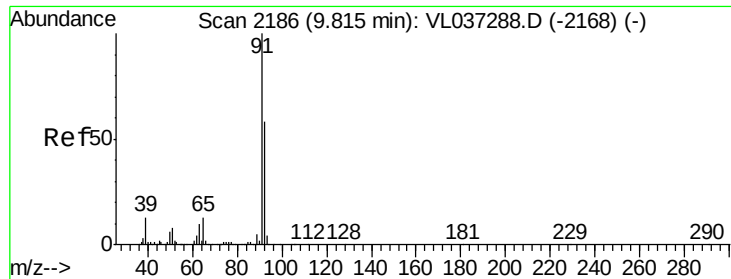
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#52
Tetrachloroethene
Concen: 0.483 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.6	100.4	150.6
129	94.4	86.2	129.4
131	101.4	80.5	120.7





#53

Toluene

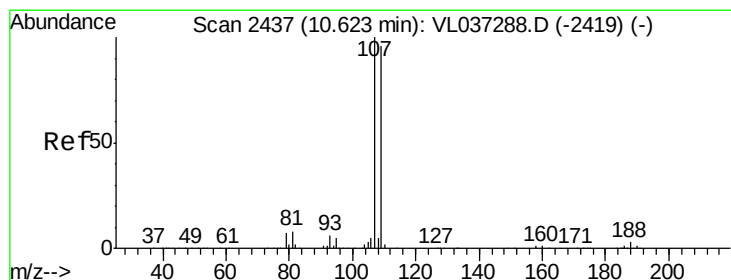
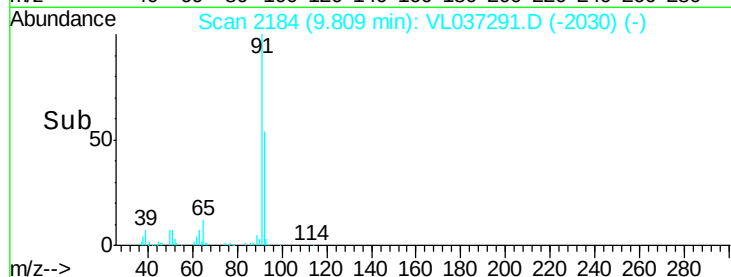
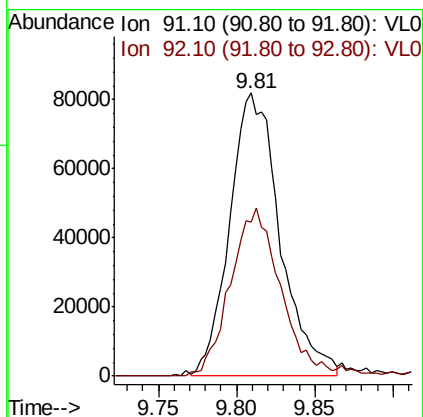
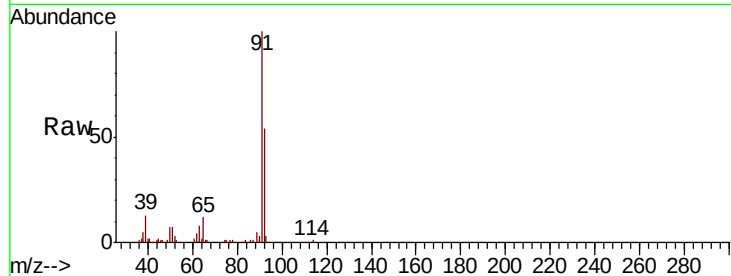
Concen: 0.482 ppbv m
RT: 9.81 min Scan# 2184
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.2	72.2#

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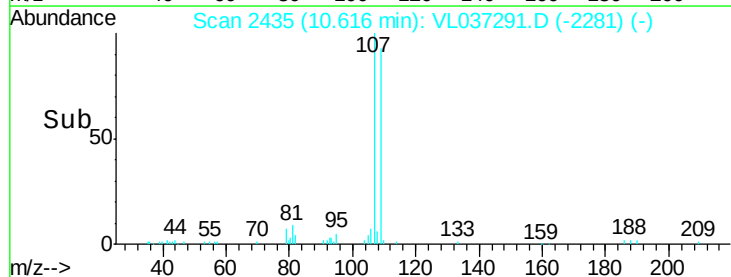
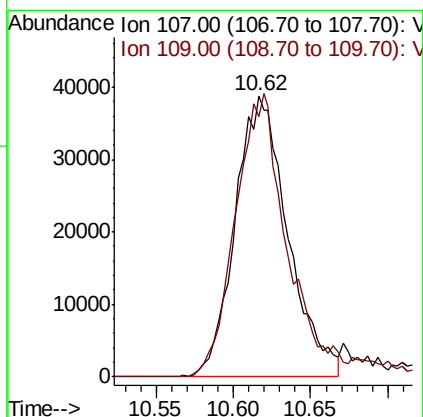
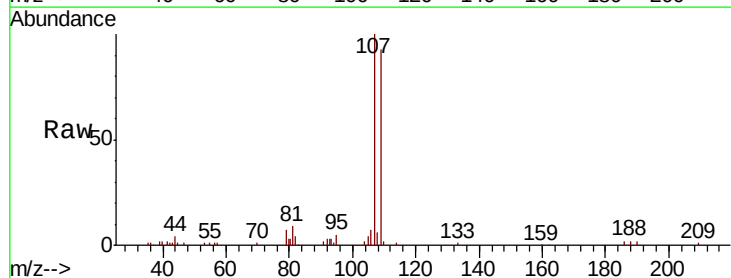


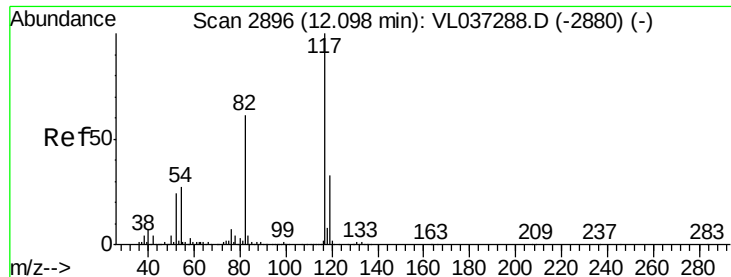
#54

1,2-Dibromoethane

Concen: 0.475 ppbv
RT: 10.62 min Scan# 2435
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.5	77.0	115.4





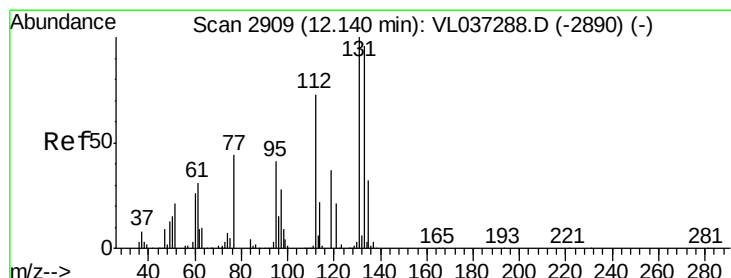
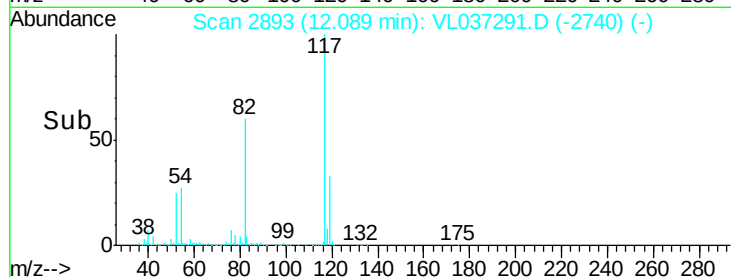
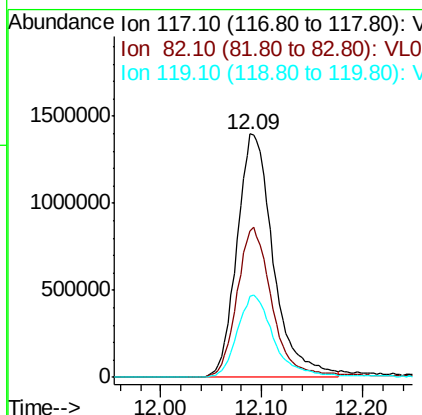
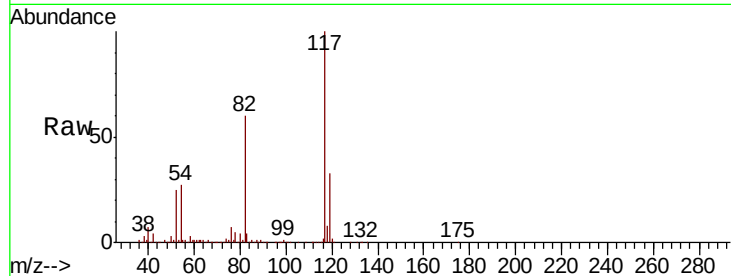
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.4	47.2	70.8
119	35.1	45.8	68.8#

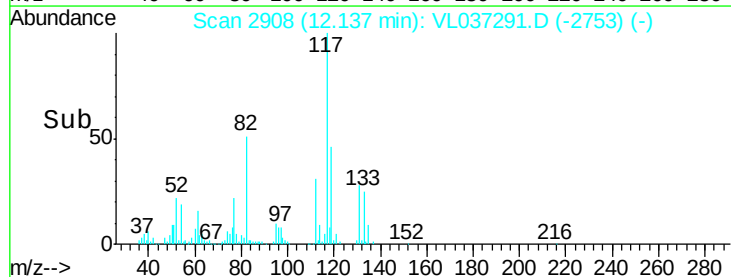
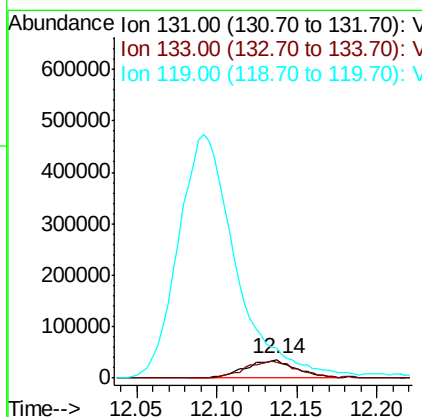
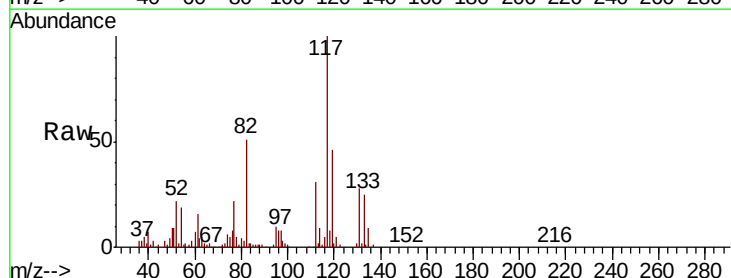
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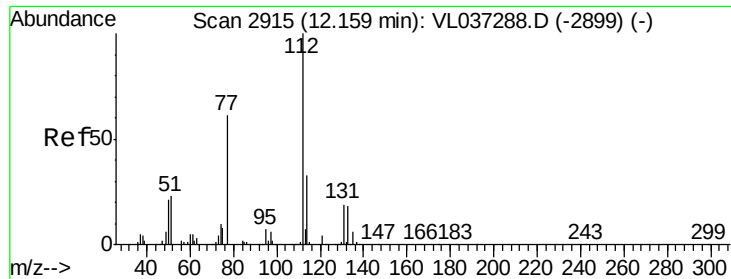
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.512 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.8	77.4	116.2
119	1579.5	51.0	76.4#





#57

Chlorobenzene

Concen: 0.552 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

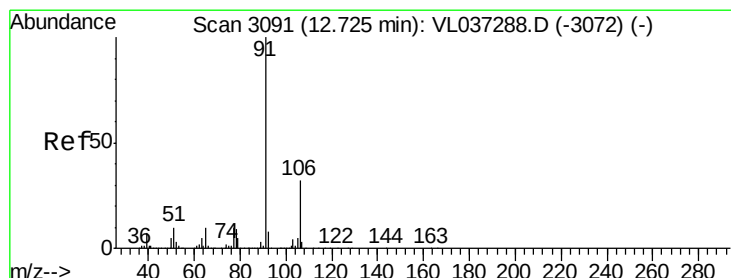
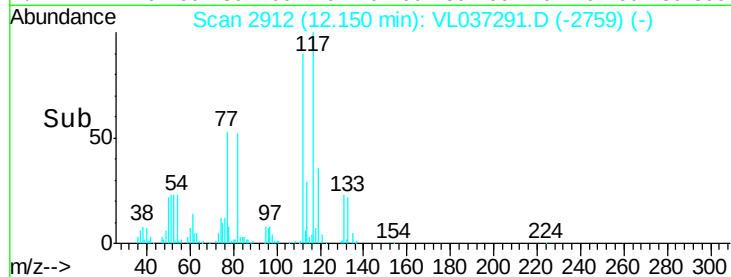
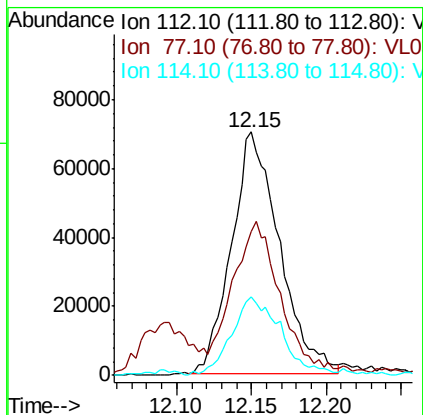
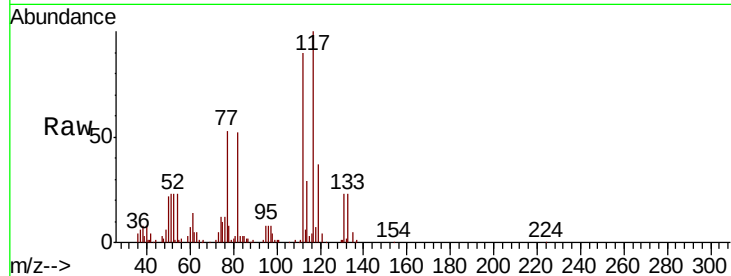
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	156493
Ion Ratio	Lower	Upper	
112	100		
77	56.9	49.0	73.6
114	32.7	29.3	35.9

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#58

Ethyl Benzene

Concen: 0.511 ppbv m

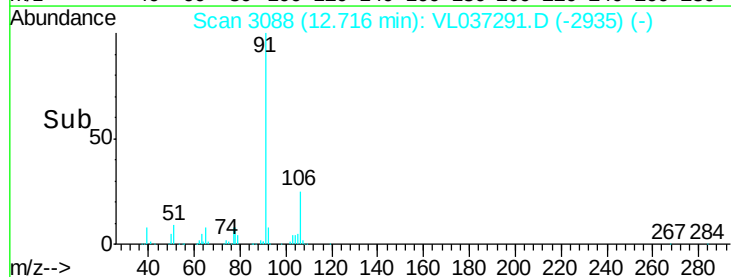
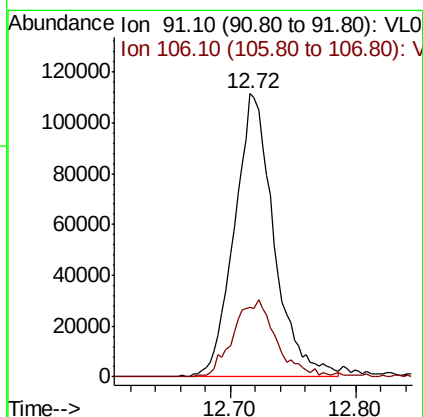
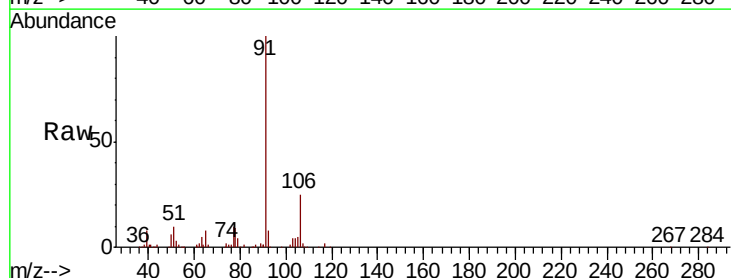
RT: 12.72 min Scan# 3088

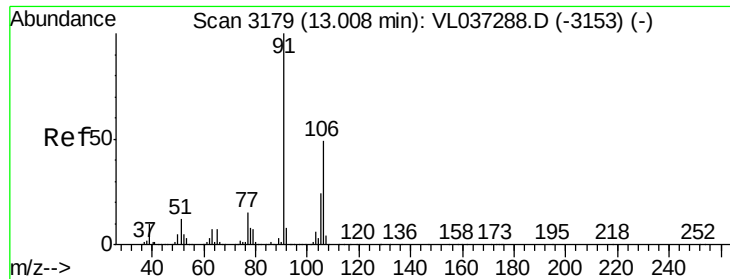
Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	91	Resp:	244728
Ion Ratio	Lower	Upper	
91	100		
106	24.8	25.4	38.0#





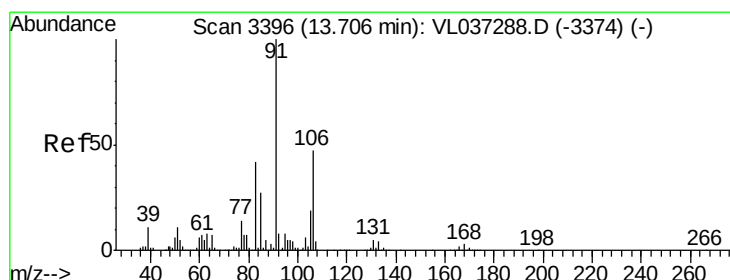
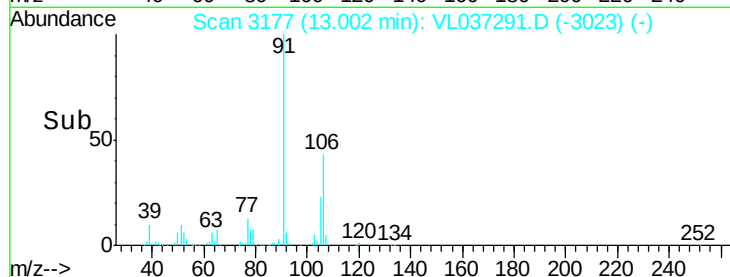
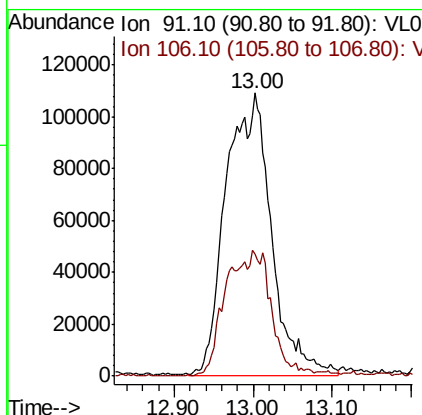
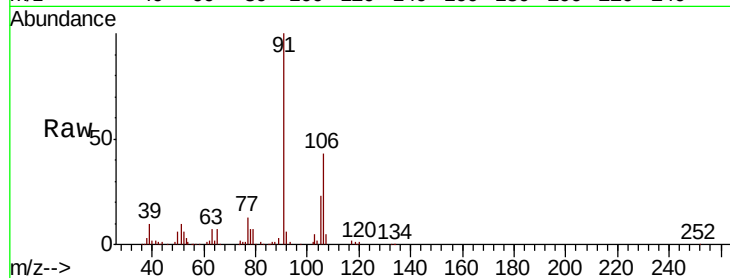
#59
m/p-Xylene
Concen: 1.071 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 434654
Ion Ratio Lower Upper
91 100
106 45.4 37.3 55.9

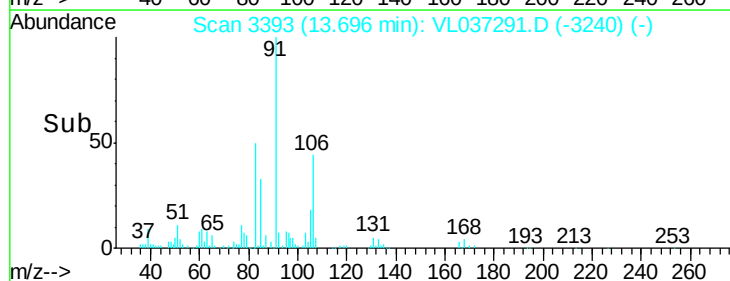
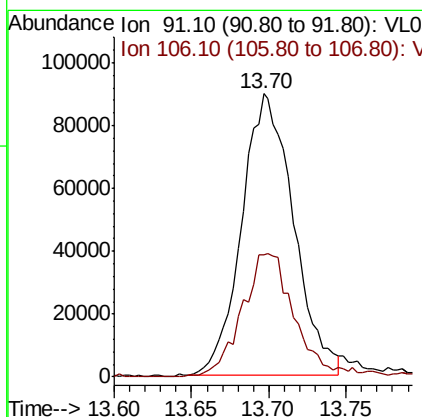
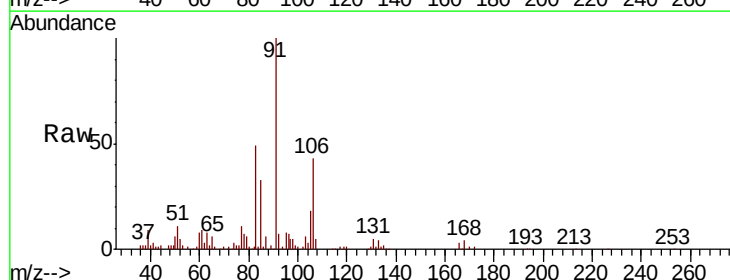
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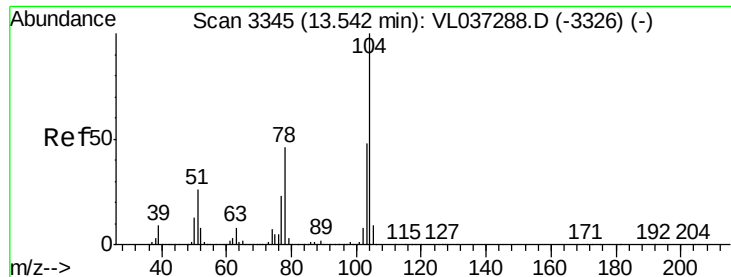
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#60
o-Xylene
Concen: 0.541 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL037291.D
Acq: 30 Jul 2021 19:14

Tgt Ion: 91 Resp: 209196
Ion Ratio Lower Upper
91 100
106 45.7 23.4 70.0





#61

Stvrene

Concen: 0.432 ppbv

RT: 13.54 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

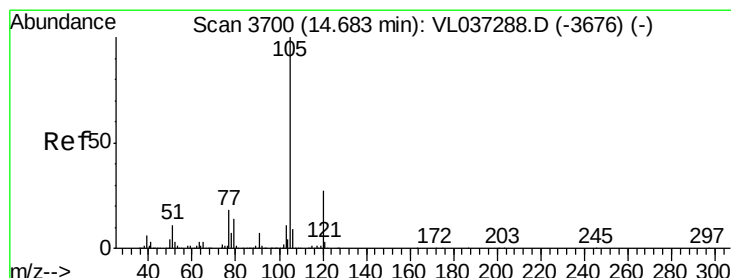
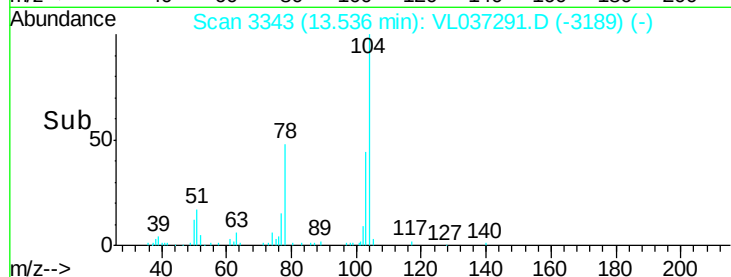
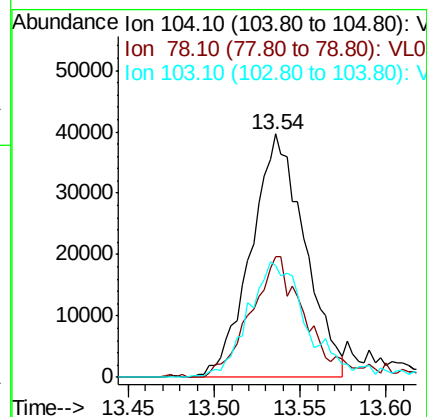
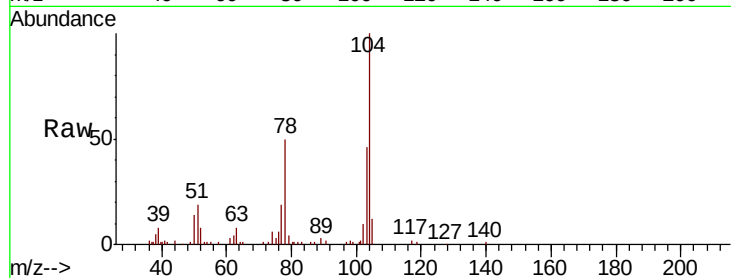
ClientSampled :

VSTDIC0.5

Tot Ion:	104	Resp:	86052
Ion Ratio	Lower	Upper	
104	100		
78	53.1	39.0	58.6
103	53.7	38.6	58.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.536 ppbv m

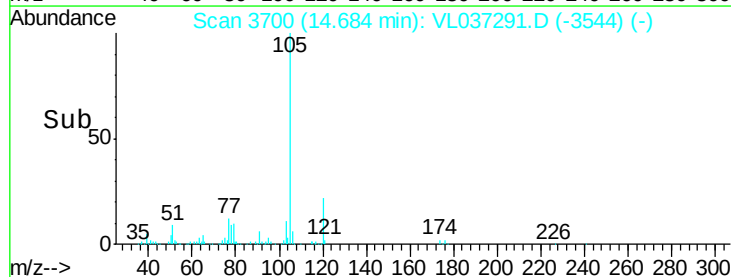
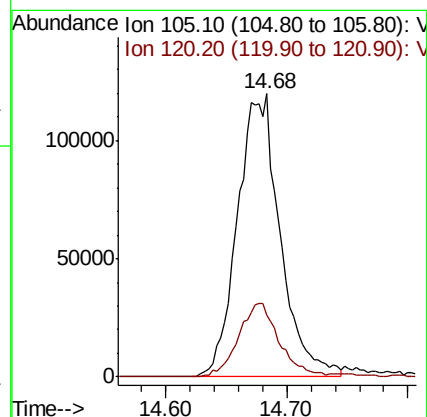
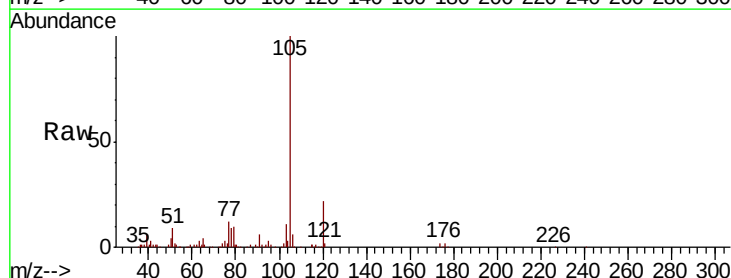
RT: 14.68 min Scan# 3700

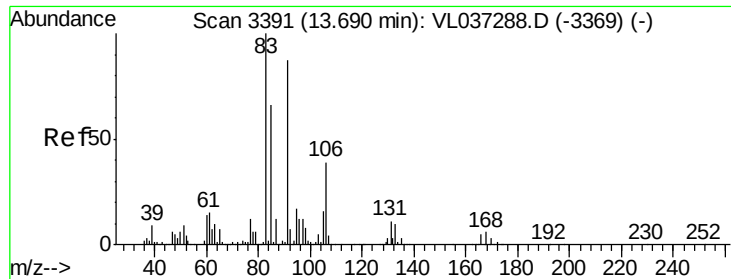
Delta R.T. 0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	105	Resp:	295456
Ion Ratio	Lower	Upper	
105	100		
120	0.0	21.8	32.6#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.567 ppbv m

RT: 13.68 min Scan# 3389

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

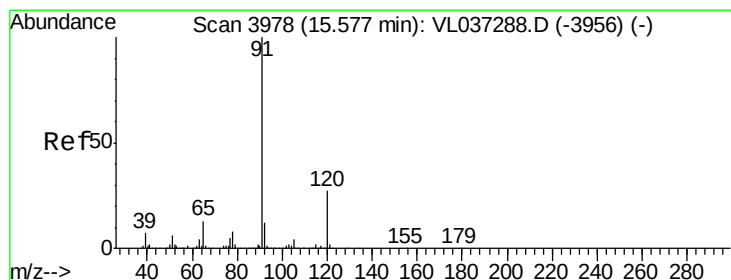
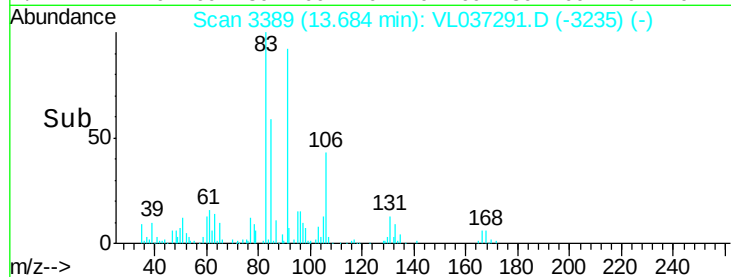
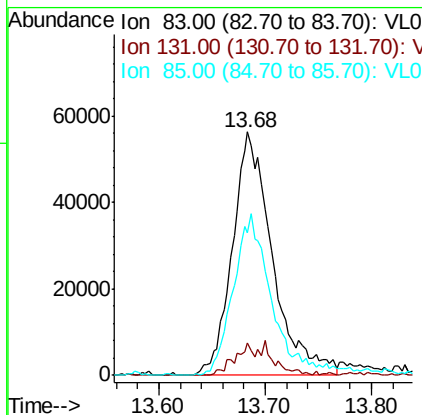
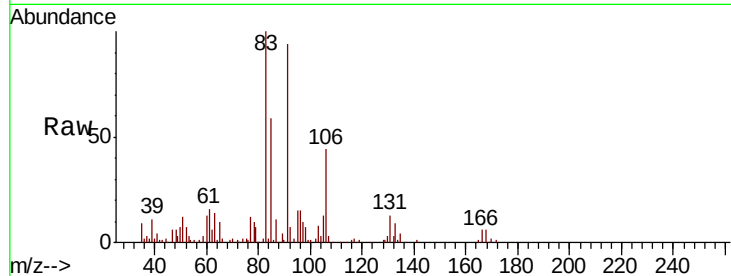
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	147269
Ion Ratio	Lower	Upper	
83	100		
131	12.1	5.5	16.5
85	66.0	33.6	100.8

Manual Integrations
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8/2/2021 8:57:38 AM



#64

n-propylbenzene

Concen: 0.504 ppbv m

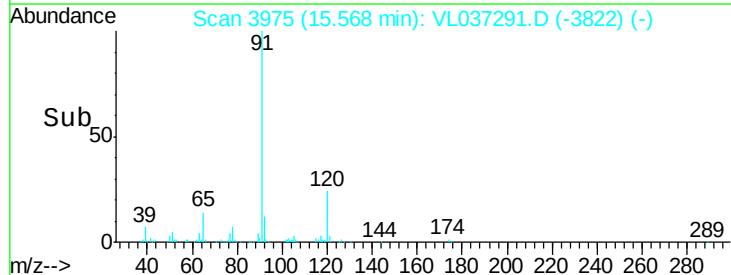
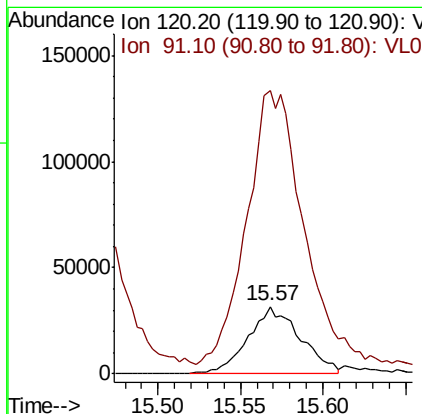
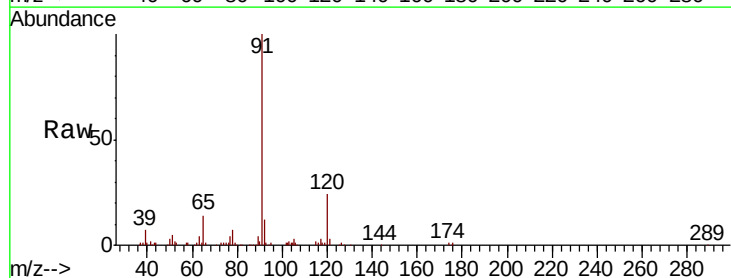
RT: 15.57 min Scan# 3975

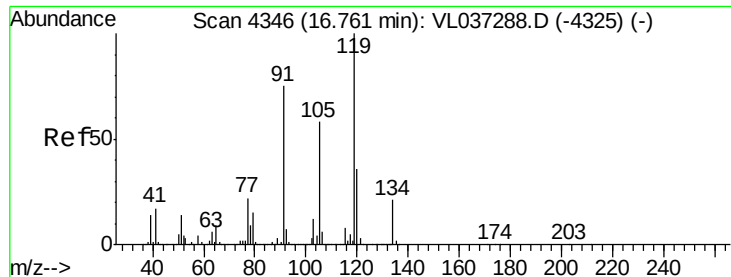
Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	120	Resp:	69757
Ion Ratio	Lower	Upper	
120	100		
91	505.3	347.0	520.4





#65

tert-Butylbenzene

Concen: 0.539 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

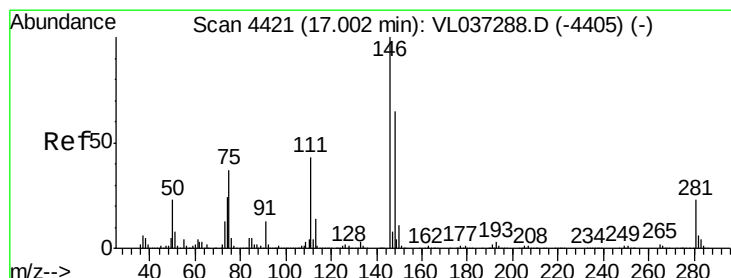
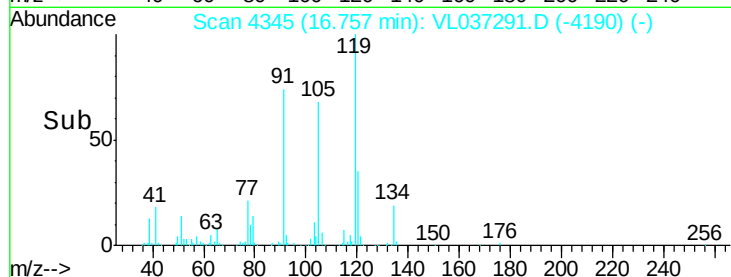
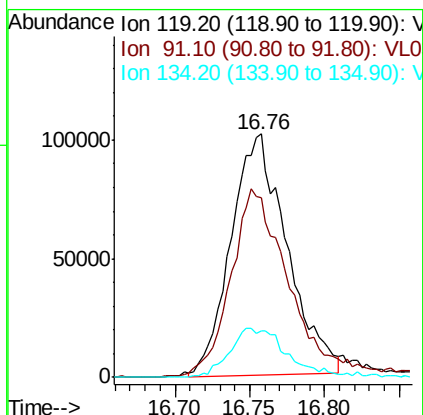
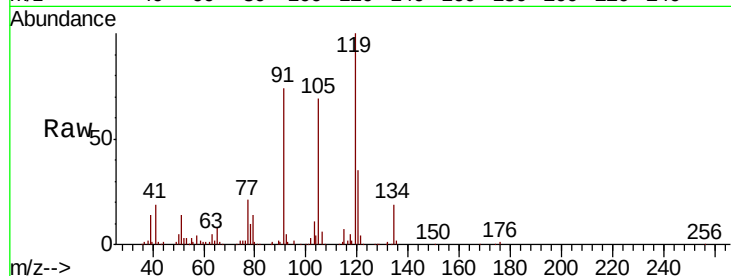
ClientSampled :

VSTDIC0.5

Tot Ion:	119	Resp:	265337
Ion Ratio	Lower	Upper	
119	100		
91	83.9	60.5	90.7
134	21.6	16.2	24.4

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.482 ppbv m

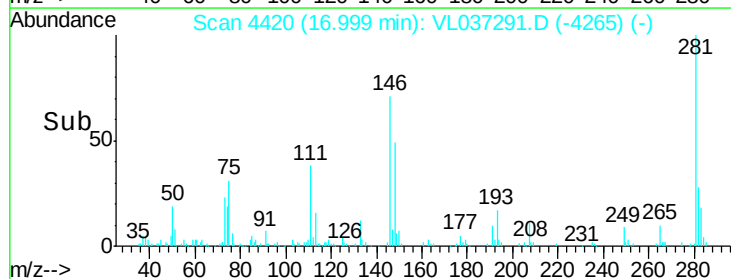
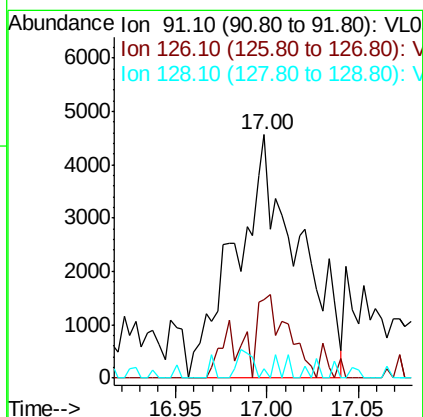
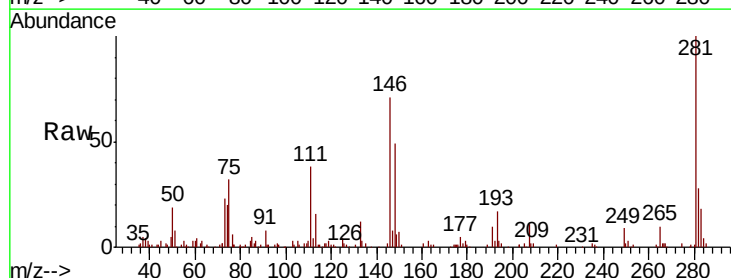
RT: 17.00 min Scan# 4420

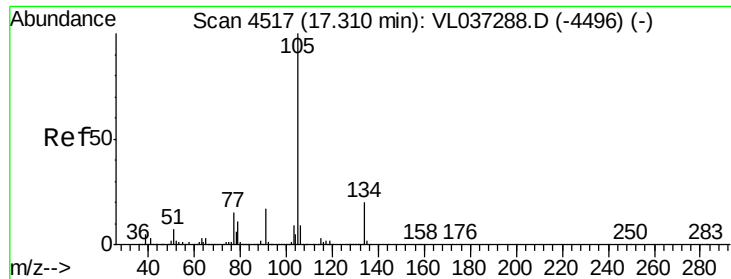
Delta R.T. -0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	91	Resp:	10943
Ion Ratio	Lower	Upper	
91	100		
126	25.2	15.4	23.0#
128	3.9	5.0	7.4#





#67

sec-Butylbenzene

Concen: 0.532 ppbv

RT: 17.30 min Scan# 4515

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 349577

Ion Ratio Lower Upper

105 100

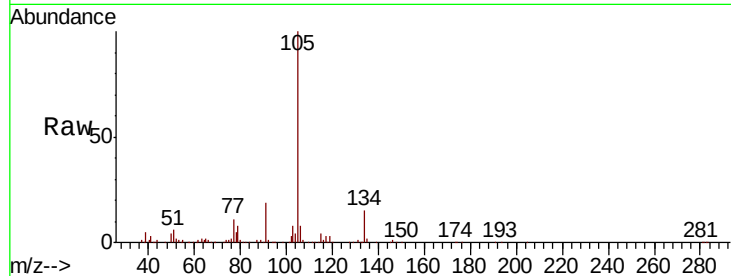
134 19.4 15.8 23.6

Manual Integrations

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8/2/2021 8:57:38 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.30

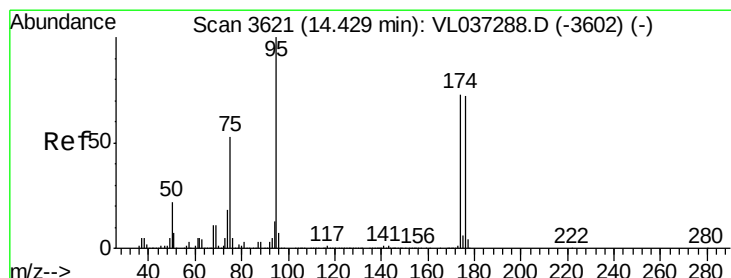
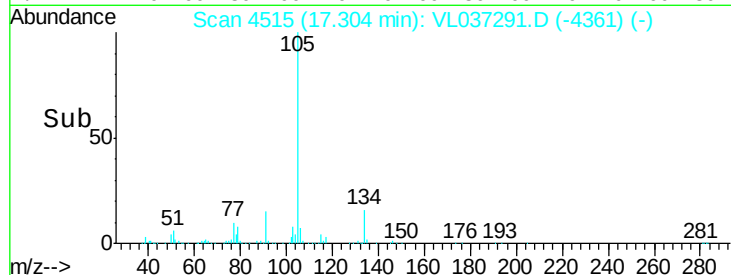
150000

100000

50000

0

Time--> 17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 9.740 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

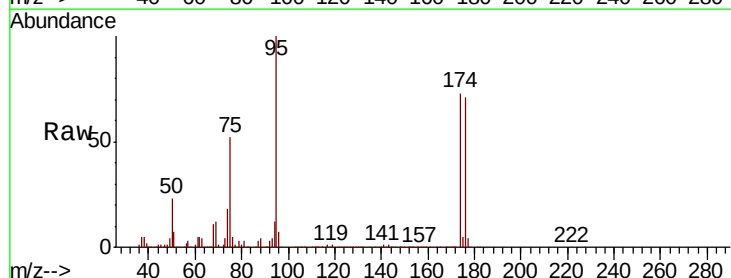
Tgt Ion: 95 Resp: 2550610

Ion Ratio Lower Upper

95 100

174 77.6 59.8 89.6

175 5.6 4.5 6.7



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

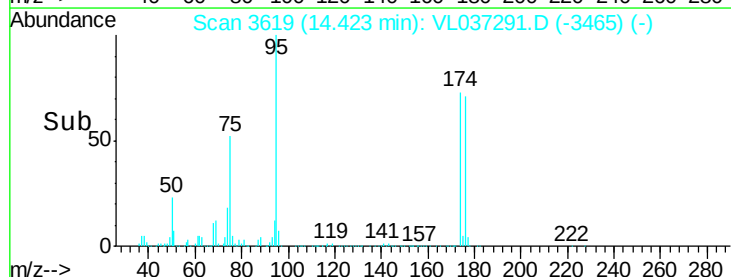
14.42

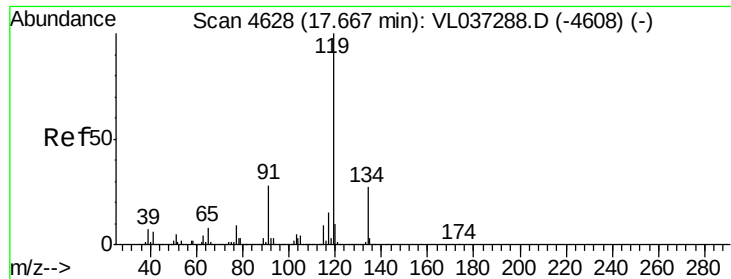
1000000

500000

0

Time--> 14.30 14.40 14.50





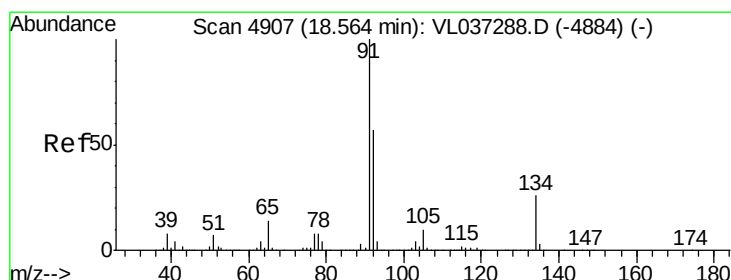
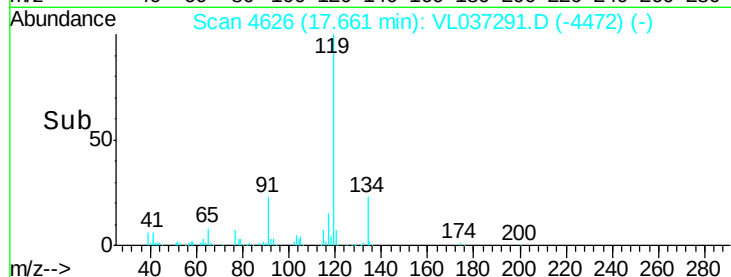
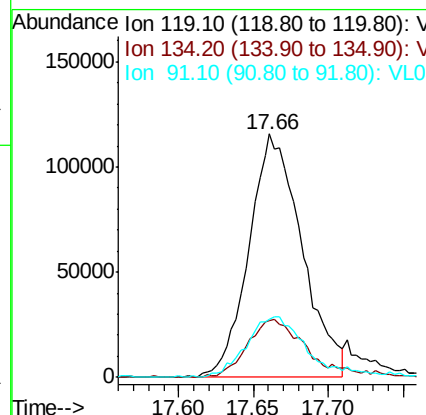
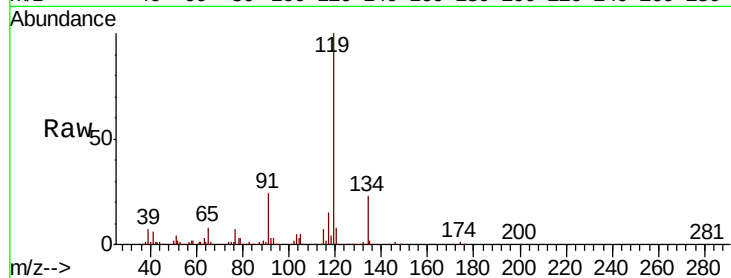
#69
 p-Isopropyltoluene
 Concen: 0.509 ppbv
 RT: 17.66 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	119	Resp:	282774
Ion Ratio	Lower	Upper	
119	100		
134	27.7	21.1	31.7
91	30.0	21.8	32.6

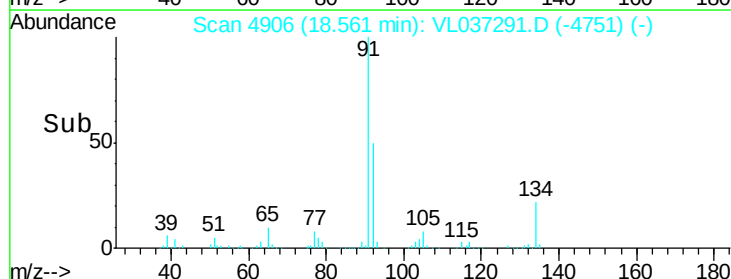
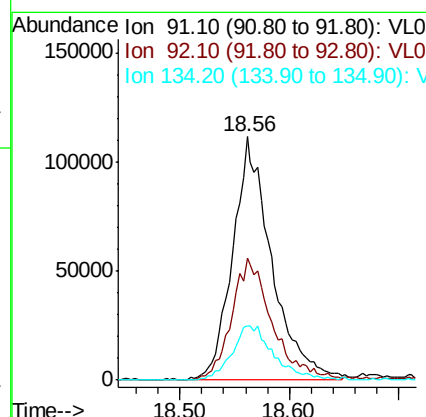
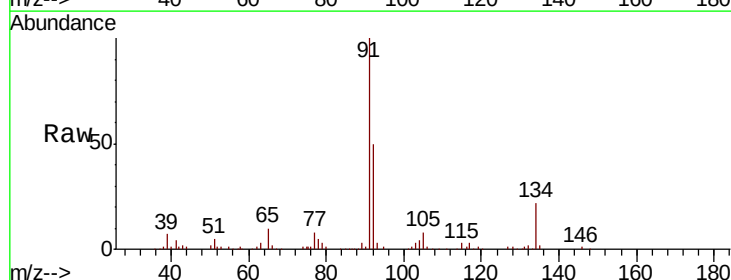
Manual Integrations
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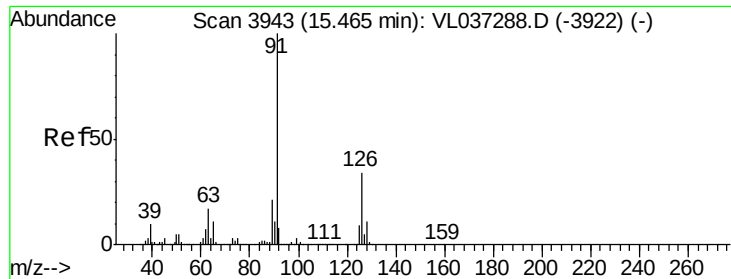
MMDadoda
 8/2/2021 8:57:38 AM



#70
 n-Butylbenzene
 Concen: 0.538 ppbv m
 RT: 18.56 min Scan# 4906
 Delta R.T. -0.00 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion:	91	Resp:	276581
Ion Ratio	Lower	Upper	
91	100		
92	52.7	43.6	65.4
134	24.1	20.3	30.5





#71

2-Chlorotoluene

Concen: 0.520 ppbv m

RT: 15.46 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 200639

Ion Ratio Lower Upper

91 100

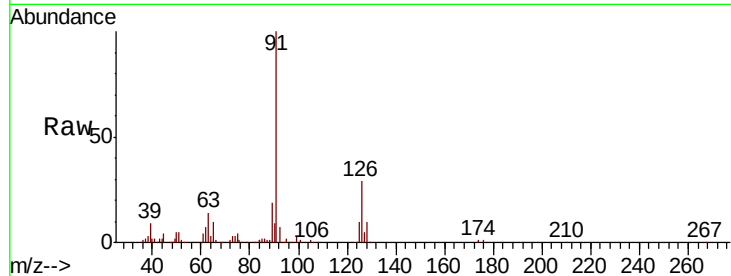
126 34.5 13.8 55.2

Manual Integrations

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MMDadoda

8/2/2021 8:57:38 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

150000

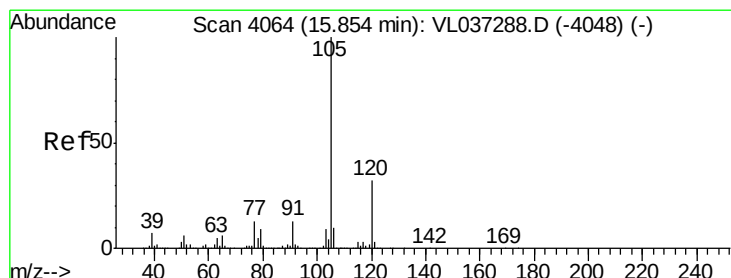
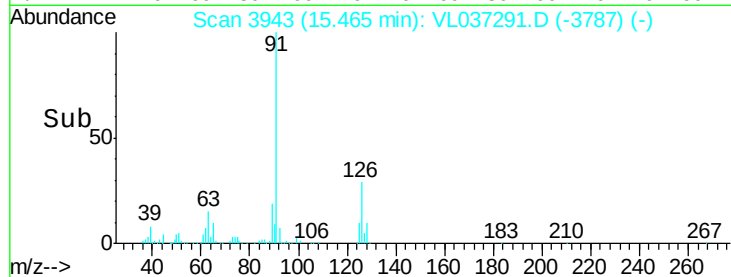
100000

50000

0

15.40 15.45 15.50

Time-->



#72

4-Ethyltoluene

Concen: 0.507 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion: 105 Resp: 225700

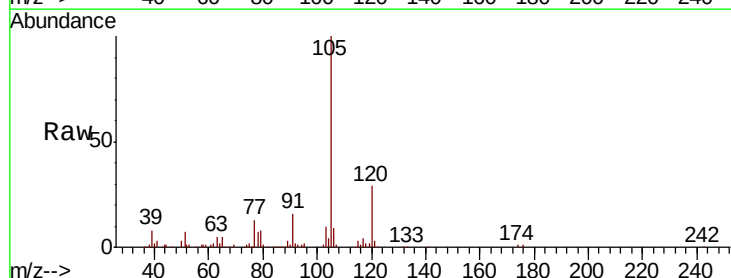
Ion Ratio Lower Upper

105 100

120 30.4 24.3 36.5

91 13.5 9.6 14.4

77 13.4 10.3 15.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

150000

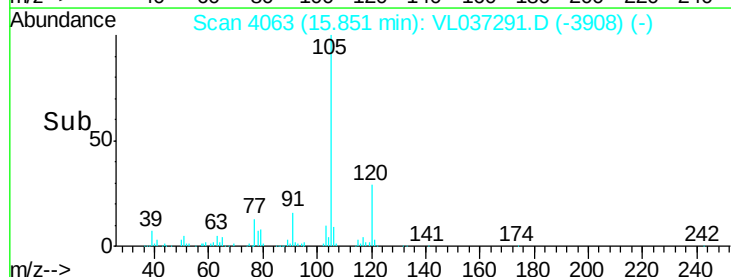
100000

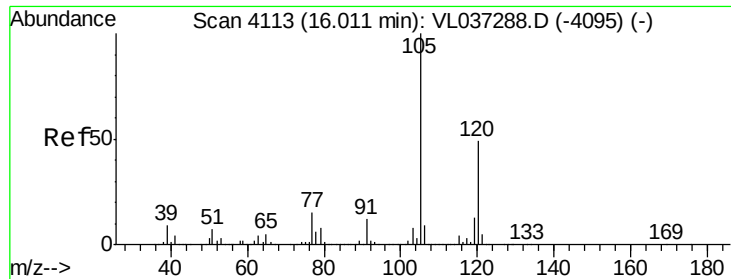
50000

0

15.75 15.80 15.85 15.90

Time-->





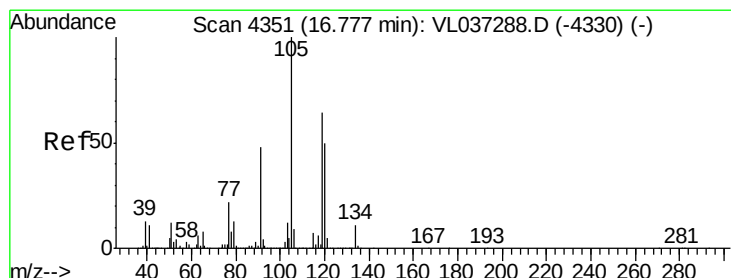
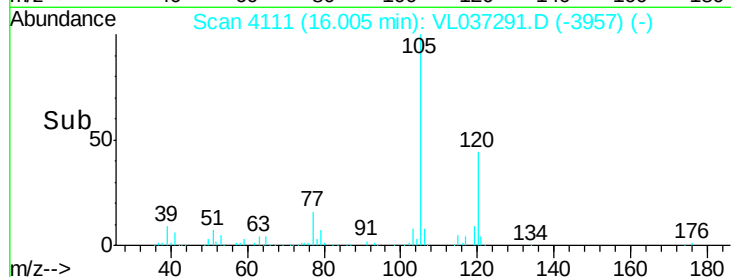
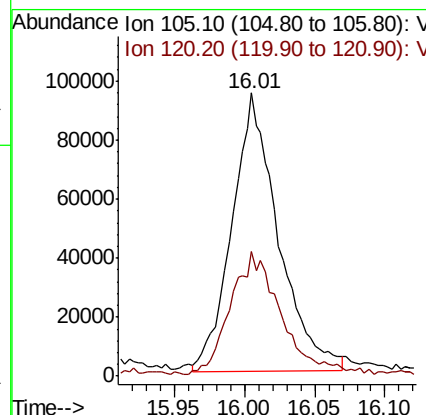
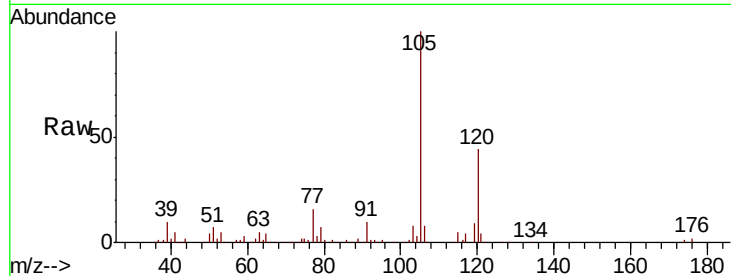
#73
 1,3,5-Trimethylbenzene
 Concen: 0.504 ppbv
 RT: 16.01 min Scan# 4111
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
105	100	215897		
120	43.4	39.0	58.6	

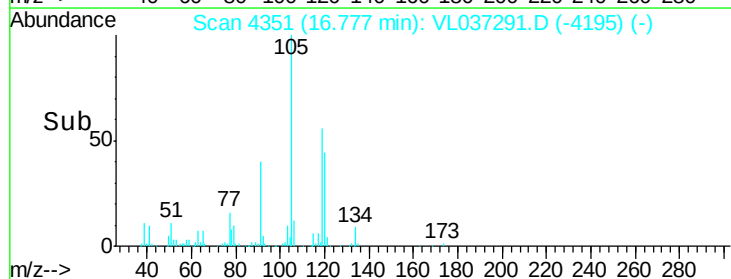
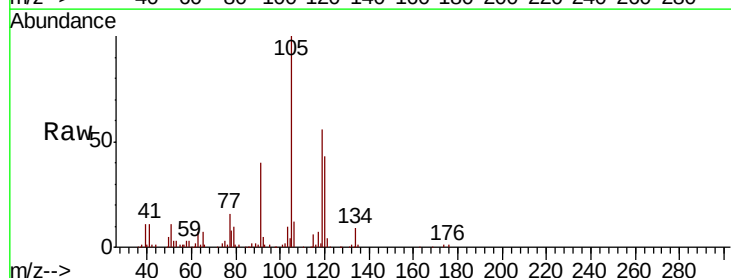
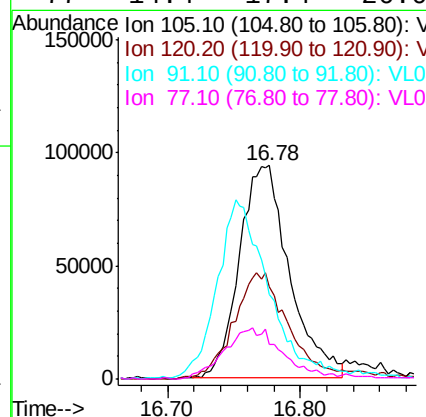
Manual Integrations
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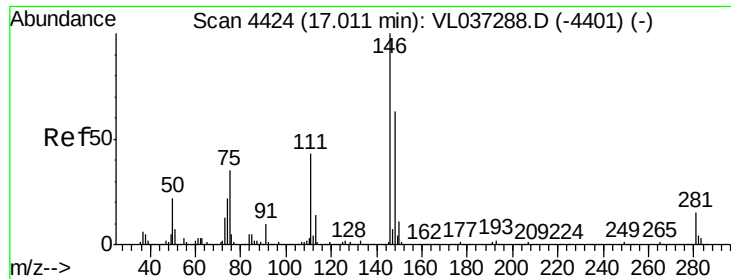
MMDadoda
 8/2/2021 8:57:38 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.561 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. 0.00 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	247340		
120	42.4	40.2	60.4	
91	36.7	39.0	58.6#	
77	14.4	17.4	26.0#	





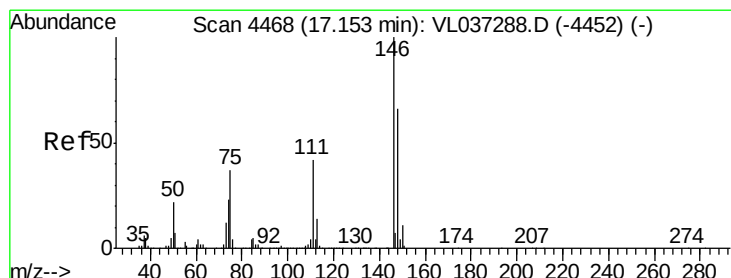
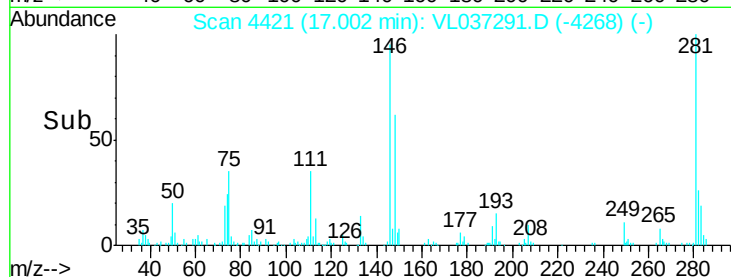
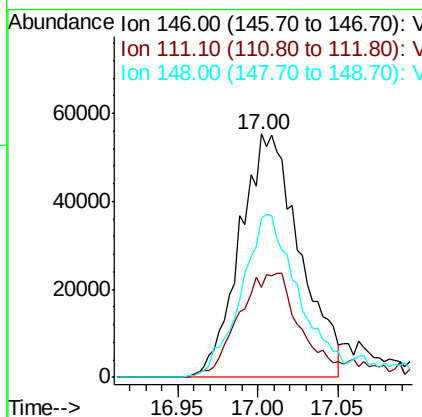
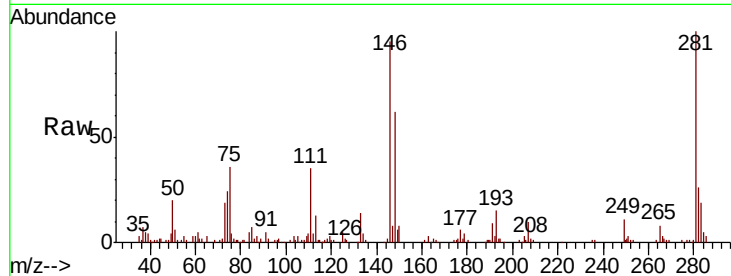
#75
 1,3-Dichlorobenzene
 Concen: 0.527 ppbv
 RT: 17.00 min Scan# 4421
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.5	21.7	65.1
148	70.7	32.3	96.9

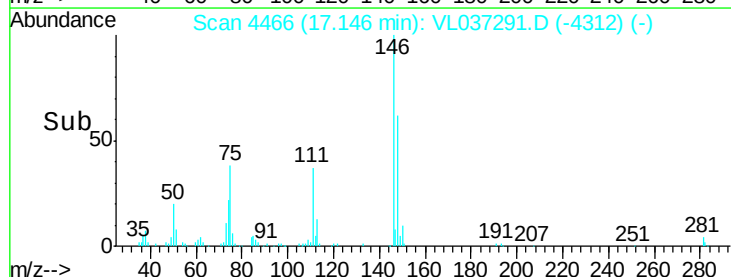
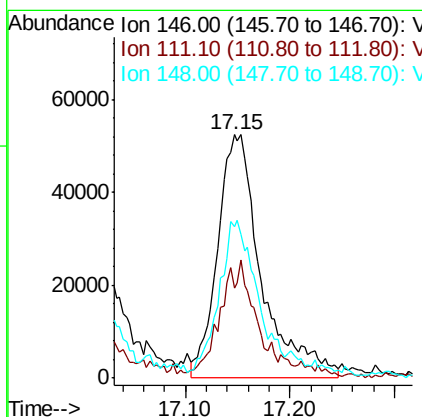
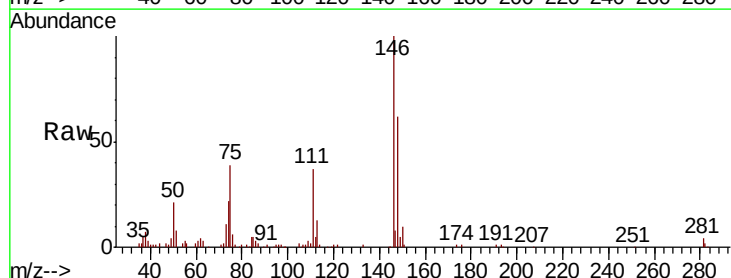
Manual Integrations
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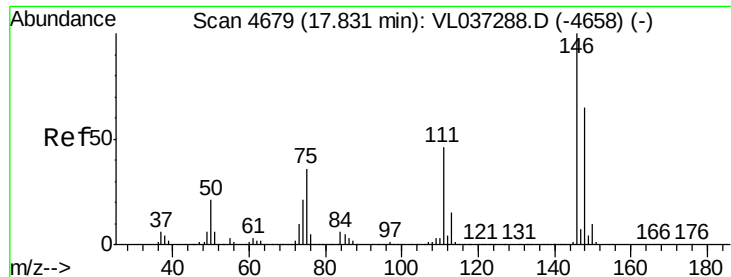
MMDadoda
 8/2/2021 8:57:38 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.566 ppbv m
 RT: 17.15 min Scan# 4466
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.2	63.6
148	62.9	32.9	98.6





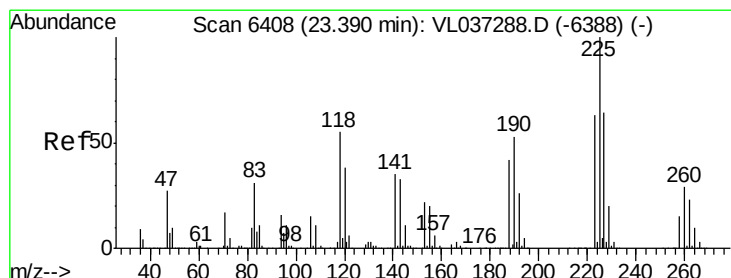
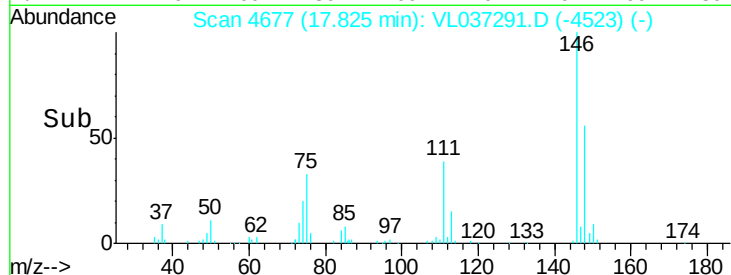
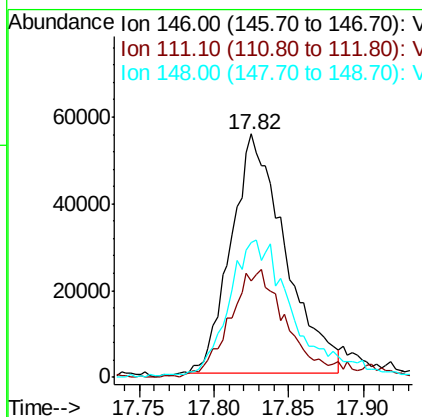
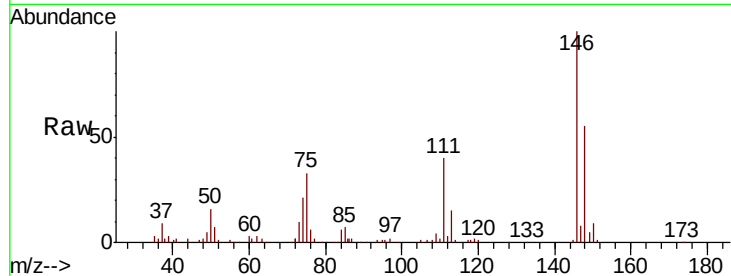
#77
 1,2-Dichlorobenzene
 Concen: 0.530 ppbv
 RT: 17.82 min Scan# 4677
 Delta R.T. -0.01 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.6	22.6	67.7
148	69.4	32.5	97.4

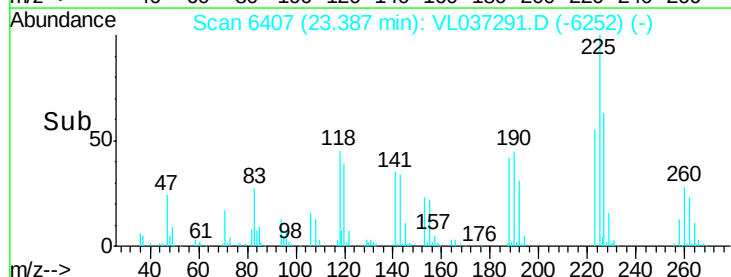
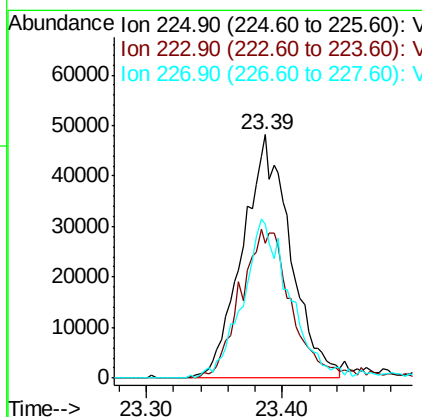
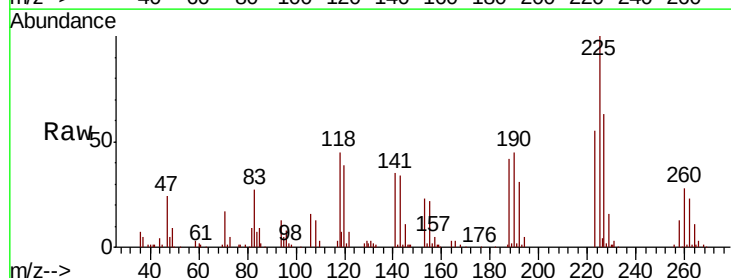
Manual Integrations
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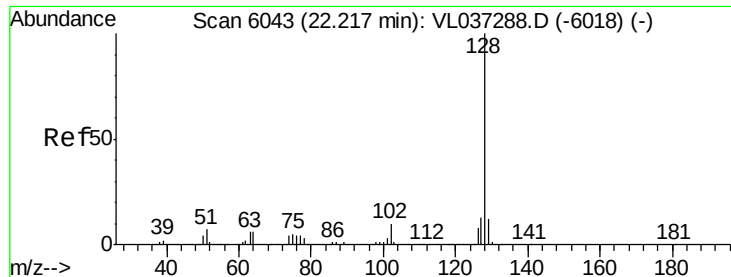
MMDadoda
 8/2/2021 8:57:38 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.535 ppbv m
 RT: 23.39 min Scan# 6407
 Delta R.T. -0.00 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.1	51.7	77.5
227	66.0	51.8	77.8





#79

Naphthalene

Concen: 0.478 ppbv m

RT: 22.22 min Scan# 6043

Delta R.T. 0.00 min

Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Instrument :

MSVOA_L

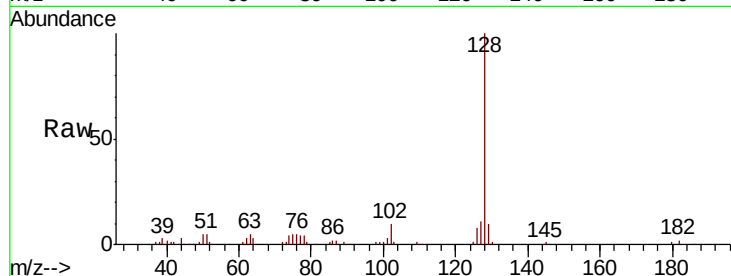
ClientSampleId :

VSTDIC0.5

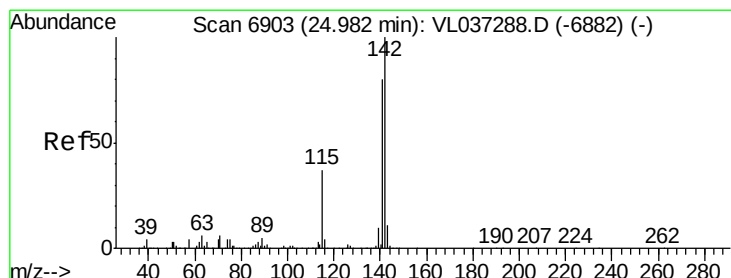
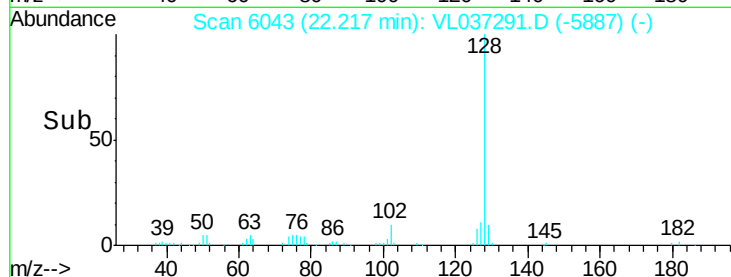
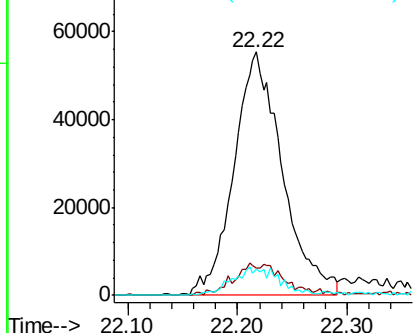
Tot Ion:	128	Resp:	169900
Ion Ratio	Lower	Upper	
128	100		
127	11.0	10.7	16.1
129	10.5	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
8/2/2021 8:57:38 AM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.439 ppbv

RT: 25.01 min Scan# 6913

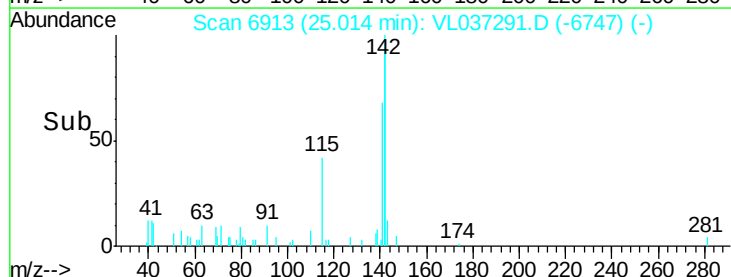
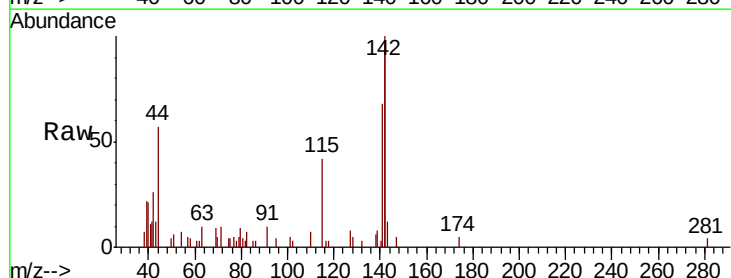
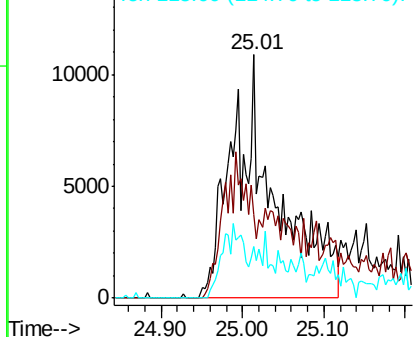
Delta R.T. 0.03 min

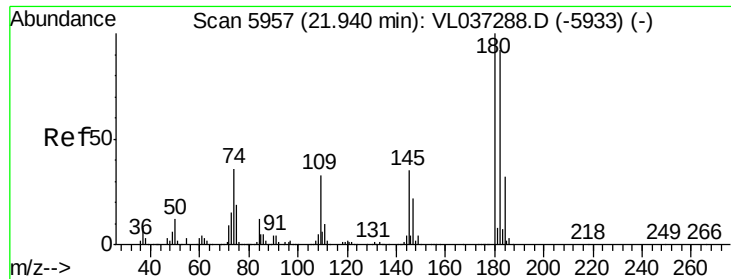
Lab File: VL037291.D

Acq: 30 Jul 2021 19:14

Tgt Ion:	142	Resp:	40697
Ion Ratio	Lower	Upper	
142	100		
141	63.9	67.0	100.6#
115	23.4	28.6	42.8#

Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.526 ppbv m
 RT: 21.94 min Scan# 5958
 Delta R.T. 0.00 min
 Lab File: VL037291.D
 Acq: 30 Jul 2021 19:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	80.8	121.2#
184	32.9	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 8/2/2021 8:57:38 AM

