

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037456.D
 Acq On : 16 Aug 2021 11:07
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

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 8/19/2021 5:58:57 PM

Quant Time: Aug 16 12:53:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 2021
 QLast Update : Mon Aug 16 11:33:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1549854	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4602481	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	4247434	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2832993	9.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	456157	1.926	ppbv	99
3) Chlorodifluoromethane	2.98	51	625164	2.054	ppbv	99
4) Chloromethane	3.13	50	212082	1.939	ppbv	99
5) Vinyl Chloride	3.25	62	218410	1.812	ppbv	99
6) Bromomethane	3.47	94	115350	1.845	ppbv	95
7) Chloroethane	3.55	64	81504m	2.048	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	541030	2.047	ppbv	98
9) Propene	3.01	41	224849m	2.200	ppbv	
10) Heptane	8.10	43	511270	2.057	ppbv	98
11) Trichlorofluoromethane	3.94	101	478709	1.868	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	350262	1.951	ppbv	99
13) Ethanol	3.61	45	21296m	1.953	ppbv	
14) Bromoethene	3.73	108	159783m	2.001	ppbv	
15) Acetone	3.84	43	344036m	2.093	ppbv	
16) 1,3-Butadiene	3.31	39	216571m	1.963	ppbv	
17) tert-Butyl alcohol	4.29	59	285677	1.821	ppbv	98
18) 1,1-Dichloroethene	4.28	96	158320	1.900	ppbv	87
19) Isopropyl Alcohol	3.97	45	180180m	1.884	ppbv	
20) Methylene Chloride	4.33	84	169103m	1.946	ppbv	
21) Allyl Chloride	4.40	41	264494m	2.054	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	154193m	1.973	ppbv	
23) Vinyl Acetate	5.06	43	533188	2.114	ppbv	98
24) 1,1-Dichloroethane	4.99	63	361035m	1.843	ppbv	
25) Ethyl Acetate	5.66	43	886760m	2.264	ppbv	
26) Hexane	5.67	57	438599	2.170	ppbv	94
27) Carbon Disulfide	4.54	76	355336m	2.085	ppbv	
28) Methyl tert-Butyl Ether	5.02	73	435135m	2.011	ppbv	
29) Chloroform	5.73	83	580244	2.039	ppbv	92
30) Cyclohexane	7.11	84	336497	2.021	ppbv	86
31) cis-1,2-Dichloroethene	5.53	61	374771	2.145	ppbv	94
32) 1,1,1-Trichloroethane	6.49	97	562519	1.958	ppbv	98
34) 2-Butanone	5.24	43	417539m	2.197	ppbv	
35) Carbon Tetrachloride	7.00	117	574131	2.023	ppbv	97
36) Benzene	6.87	78	842714	2.171	ppbv	98
37) 1,2-Dichloroethane	6.29	62	399192	2.016	ppbv	98
38) Trichloroethene	7.82	130	322713	1.884	ppbv	99
39) 1,2-Dichloropropane	7.59	63	312367	2.113	ppbv	97
40) 1,4-Dioxane	7.83	88	76526m	2.127	ppbv	
41) Tetrahydrofuran	6.04	42	193241m	2.215	ppbv	
42) Bromodichloromethane	7.77	83	572833	2.066	ppbv	99
43) Methyl Methacrylate	8.00	69	284290m	2.161	ppbv	

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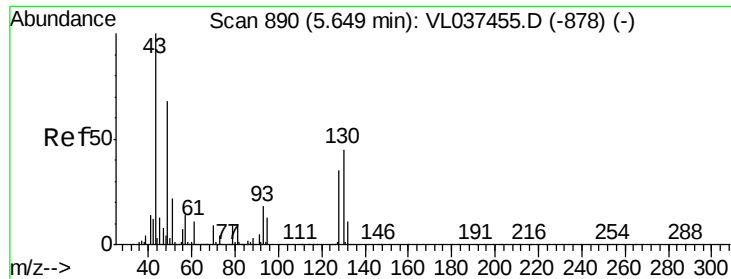
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Quant Time: Aug 16 12:53:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 2021
 QLast Update : Mon Aug 16 11:33:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	1422351	2.192	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	206328m	2.111	ppbv	
46) cis-1,3-Dichloropropene	8.68	75	309400m	2.267	ppbv	
47) 1,1,2-Trichloroethane	9.45	97	343090m	2.147	ppbv	
48) Dibromochloromethane	10.28	129	490683	2.128	ppbv	99
49) Bromoform	13.02	173	402080m	2.301	ppbv	
50) 4-Methyl-2-Pentanone	8.73	43	513691	2.149	ppbv	97
51) 2-Hexanone	10.13	43	240089m	2.135	ppbv	
52) Tetrachloroethene	11.20	164	314867	1.926	ppbv	98
53) Toluene	9.78	91	966843	2.182	ppbv	98
54) 1,2-Dibromoethane	10.59	107	463790	2.132	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.10	131	363179m	2.148	ppbv	
57) Chlorobenzene	12.12	112	710334	2.064	ppbv #	92
58) Ethyl Benzene	12.69	91	1230583	2.136	ppbv	95
59) m/p-Xylene	12.98	91	2186243m	4.319	ppbv	
60) o-Xylene	13.67	91	1014457	2.158	ppbv	98
61) Styrene	13.50	104	528785m	2.226	ppbv	
62) Isopropylbenzene	14.64	105	1421937	2.115	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	746103	2.104	ppbv	98
64) n-propylbenzene	15.54	120	360250	2.129	ppbv	86
65) tert-Butylbenzene	16.72	119	1329839	2.193	ppbv	99
66) Benzyl Chloride	16.96	91	50999m	1.838	ppbv	
67) sec-Butylbenzene	17.27	105	1859703	2.254	ppbv	99
69) p-Isopropyltoluene	17.63	119	1519277	2.243	ppbv	99
70) n-Butylbenzene	18.53	91	1462034	2.323	ppbv	99
71) 2-Chlorotoluene	15.43	91	1053623	2.215	ppbv	98
72) 4-Ethyltoluene	15.82	105	1172021	2.147	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	1114053	2.159	ppbv	95
74) 1,2,4-Trimethylbenzene	16.73	105	1225415	2.320	ppbv	98
75) 1,3-Dichlorobenzene	16.97	146	697406	2.157	ppbv	99
76) 1,4-Dichlorobenzene	17.11	146	711463m	2.220	ppbv	
77) 1,2-Dichlorobenzene	17.79	146	713975m	2.295	ppbv	
78) Hexachloro-1,3-Butadiene	23.35	225	606938	2.409	ppbv	98
79) Naphthalene	22.17	128	814482m	2.837	ppbv	
80) Naphthalene, 2-methyl-	24.95	142	220629	3.638	ppbv	96
81) 1,2,4-Trichlorobenzene	21.90	180	507608	2.602	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037456.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1549854

Ion Ratio Lower Upper

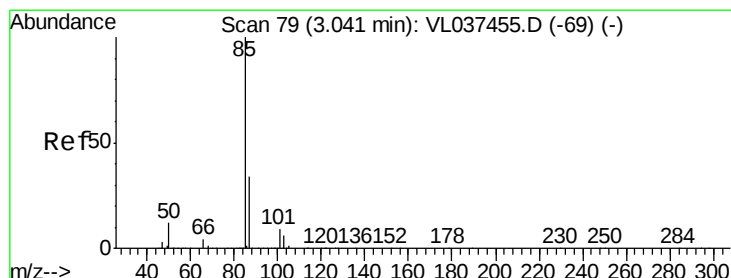
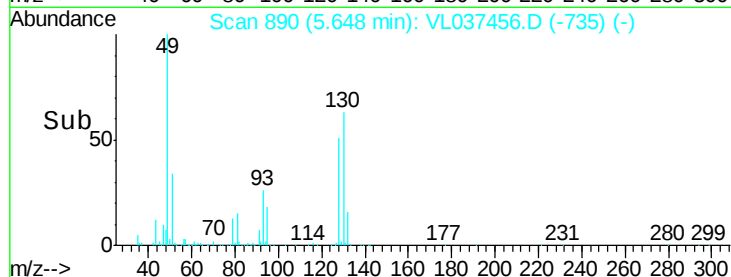
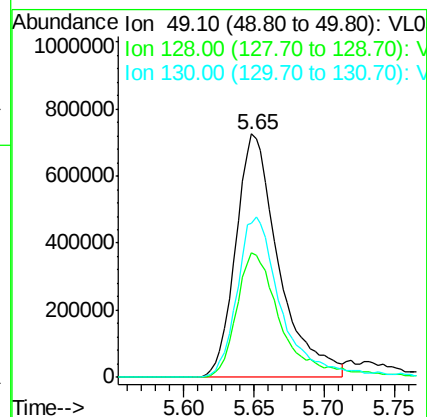
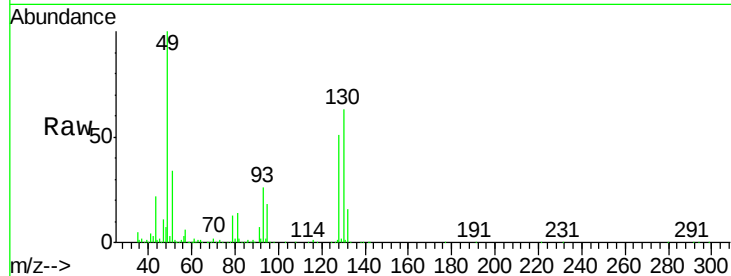
49 100

128 54.2 27.5 82.4

130 68.1 34.0 101.8

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#2

Dichlorodifluoromethane

Concen: 1.926 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL037456.D

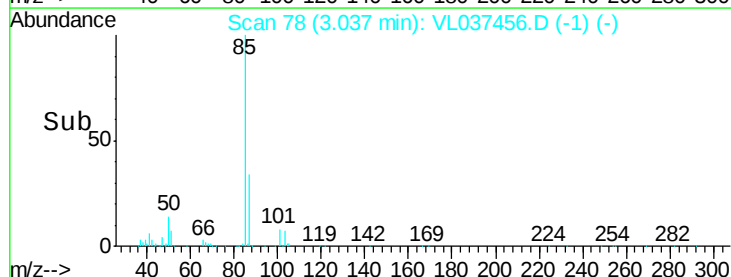
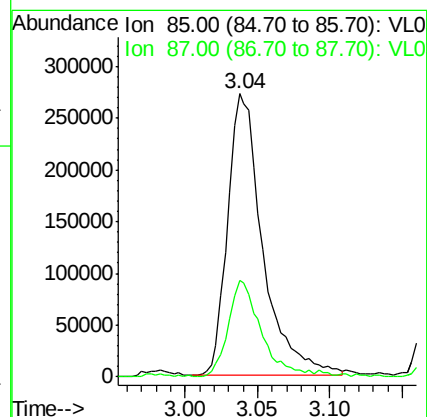
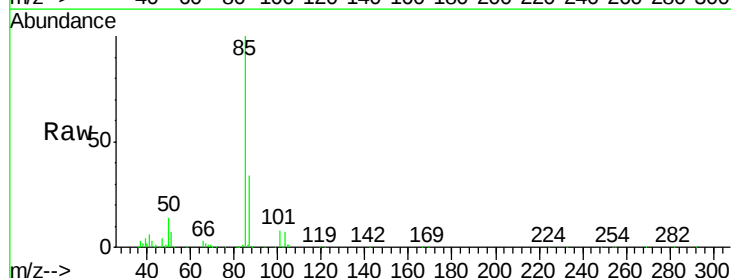
Acq: 16 Aug 2021 11:07

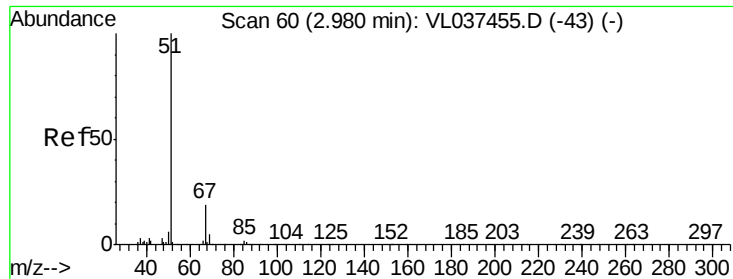
Tgt Ion: 85 Resp: 456157

Ion Ratio Lower Upper

85 100

87 33.8 27.6 41.4





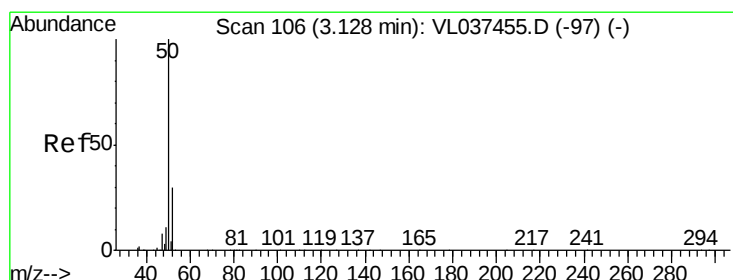
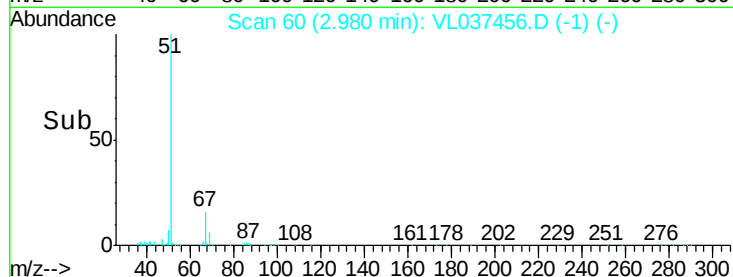
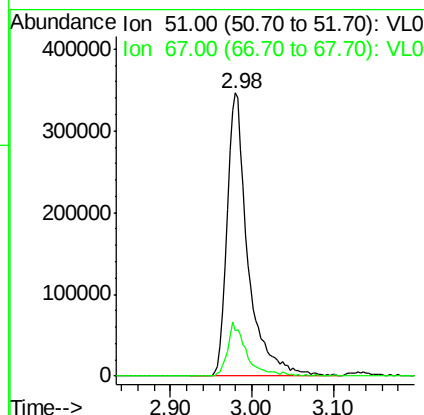
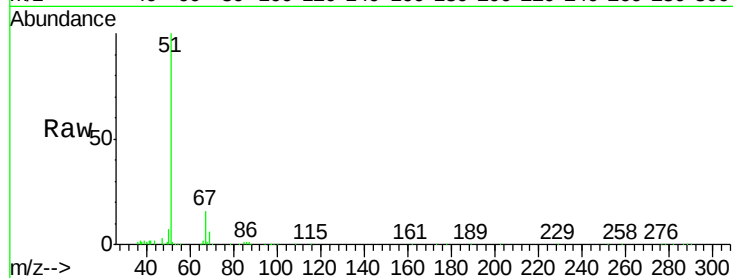
#3
Chlorodifluoromethane
Concen: 2.054 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
51	100		
67	17.5	14.2	21.2

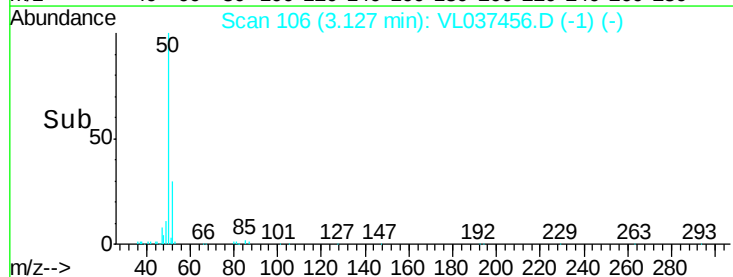
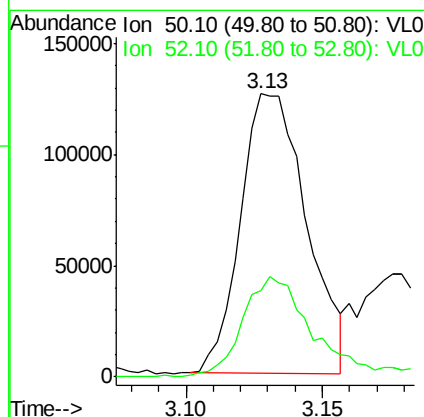
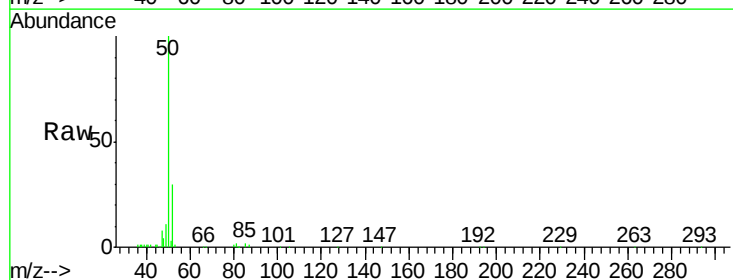
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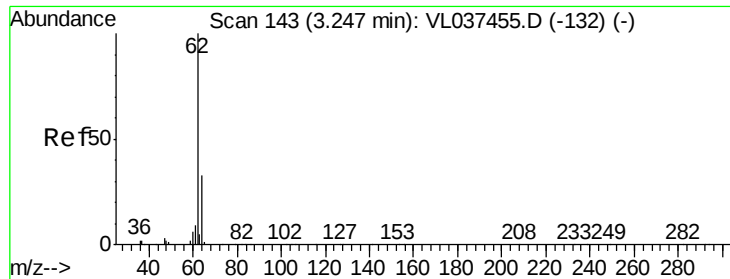
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#4
Chloromethane
Concen: 1.939 ppbv
RT: 3.13 min Scan# 106
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.4	24.0	36.0





#5

Vinyl Chloride

Concen: 1.812 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 218410

Ion Ratio Lower Upper

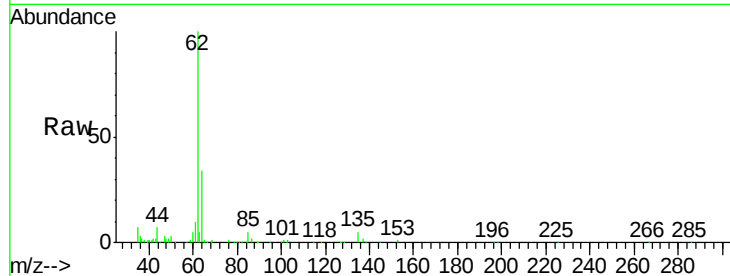
62 100

64 33.8 26.5 39.7

Manual Integrations
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

150000

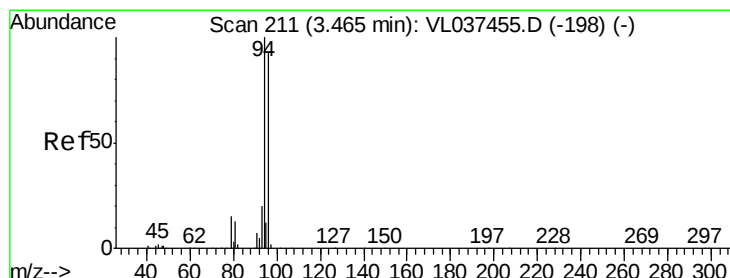
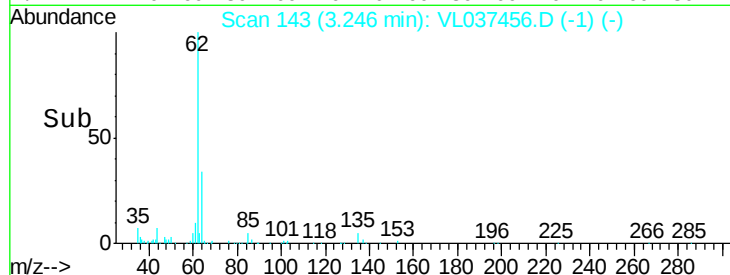
100000

50000

0

3.20 3.25 3.30

Time-->



#6

Bromomethane

Concen: 1.845 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL037456.D

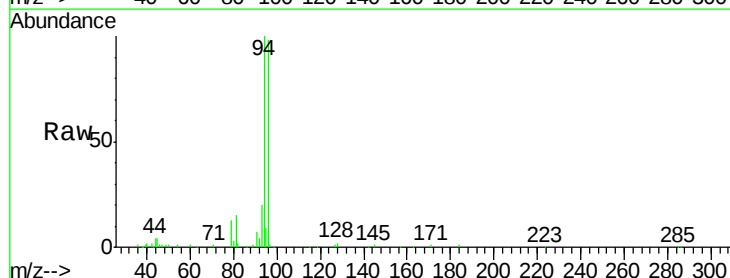
Acq: 16 Aug 2021 11:07

Tgt Ion: 94 Resp: 115350

Ion Ratio Lower Upper

94 100

96 97.7 74.5 111.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

60000

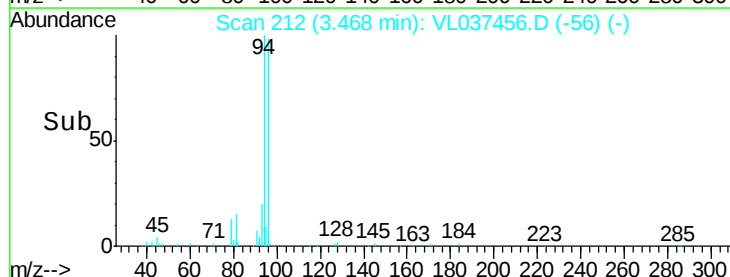
40000

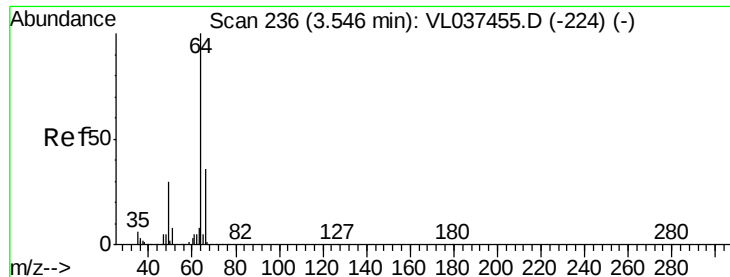
20000

0

3.40 3.45 3.50

Time-->





#7

Chloroethane

Concen: 2.048 ppbv m

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 81504

Ion Ratio Lower Upper

64 100

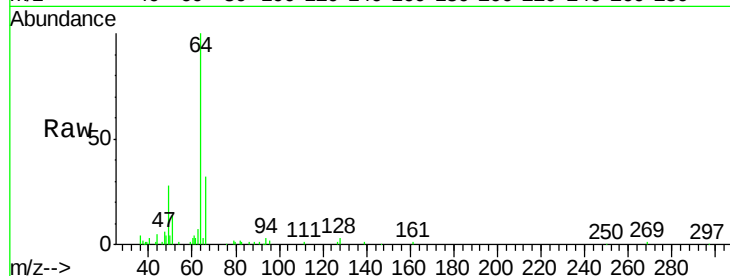
66 32.4 28.6 43.0

Manual Integrations

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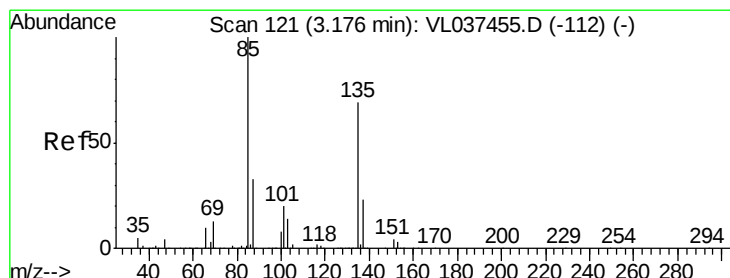
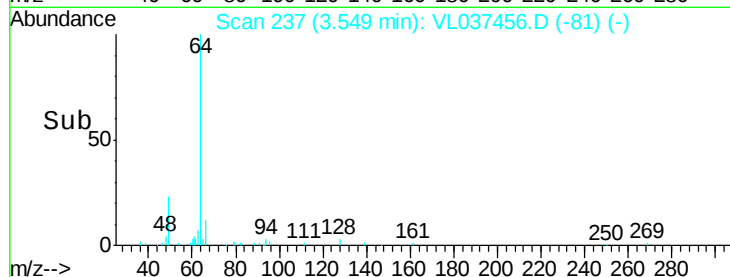
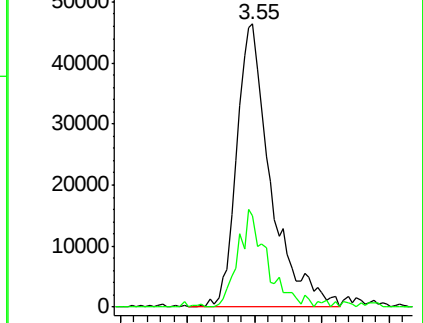
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.047 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL037456.D

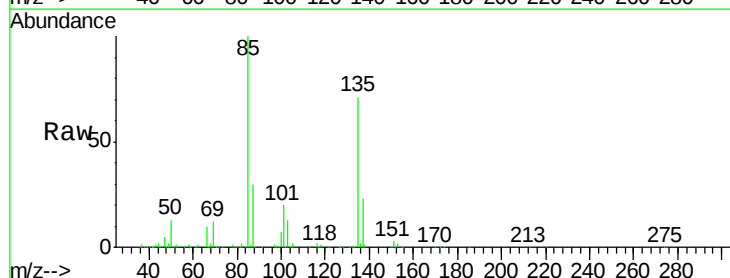
Acq: 16 Aug 2021 11:07

Tgt Ion: 85 Resp: 541030

Ion Ratio Lower Upper

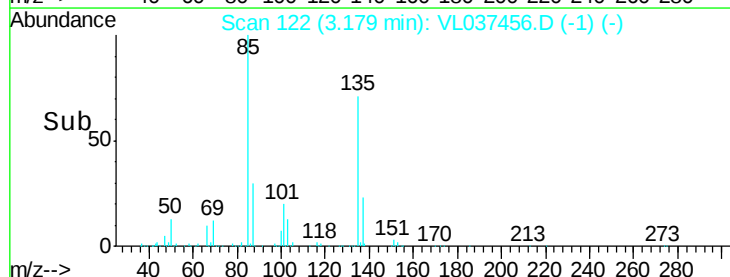
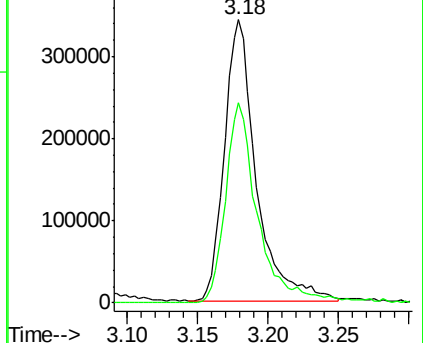
85 100

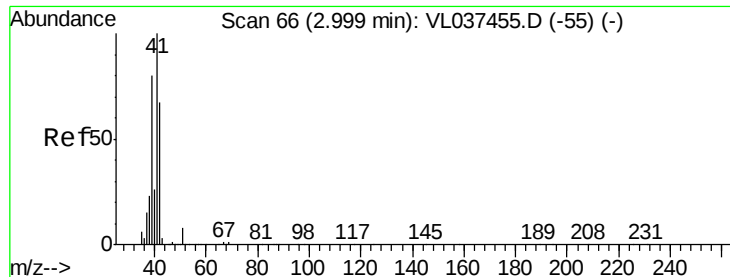
135 72.0 58.8 88.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 2.200 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 224849

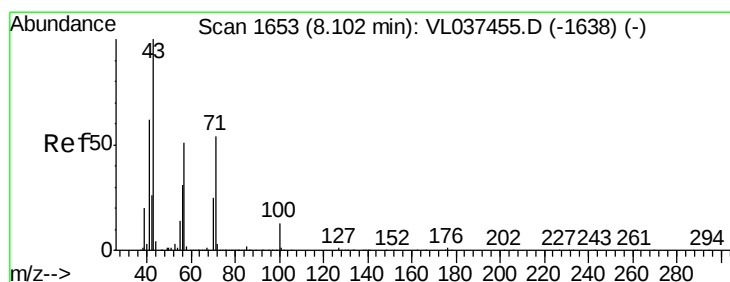
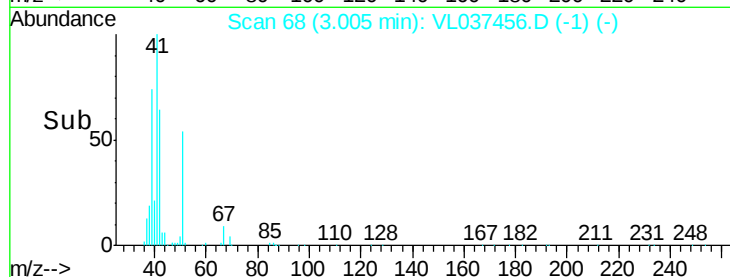
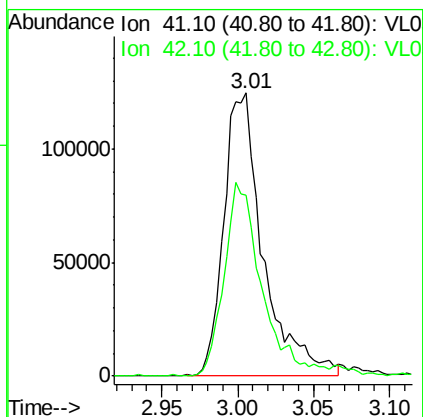
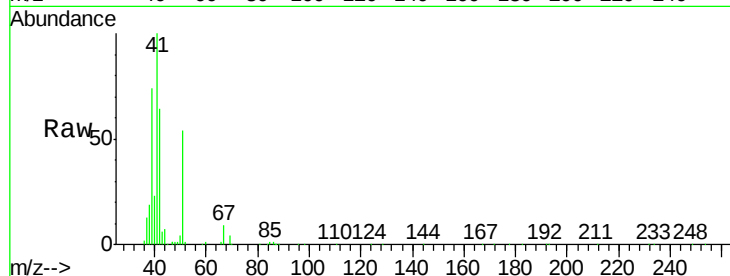
Ion Ratio Lower Upper

41 100

42 67.2 53.7 80.5

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#10

Heptane

Concen: 2.057 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL037456.D

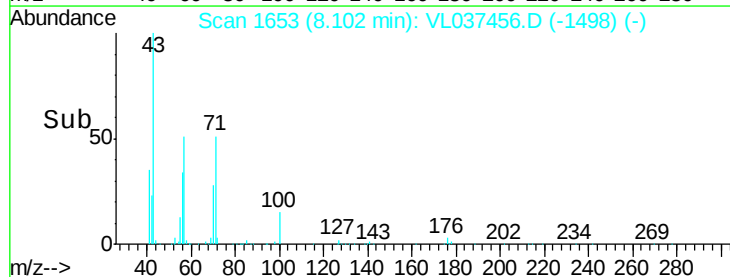
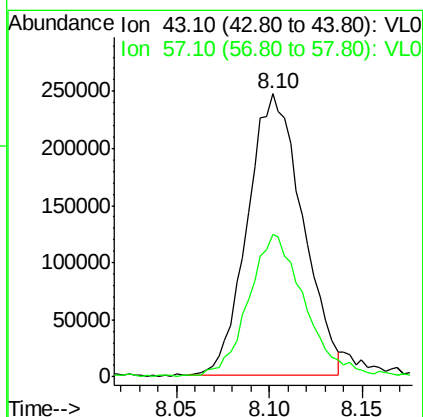
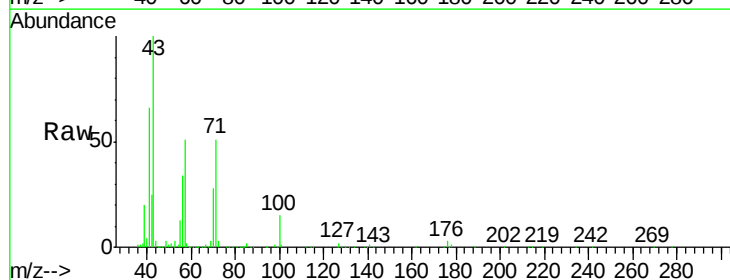
Acq: 16 Aug 2021 11:07

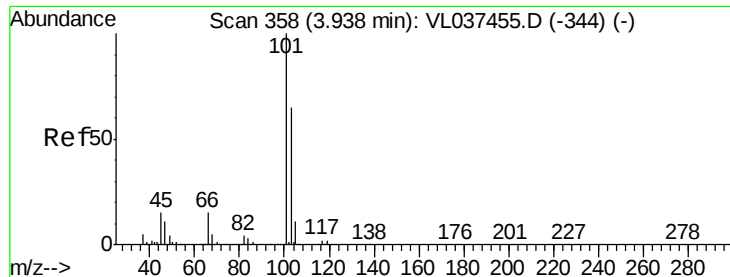
Tgt Ion: 43 Resp: 511270

Ion Ratio Lower Upper

43 100

57 50.0 41.0 61.6





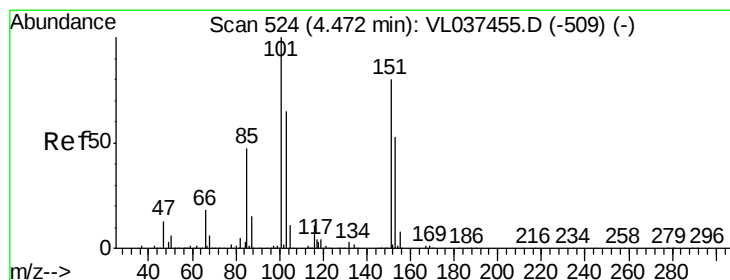
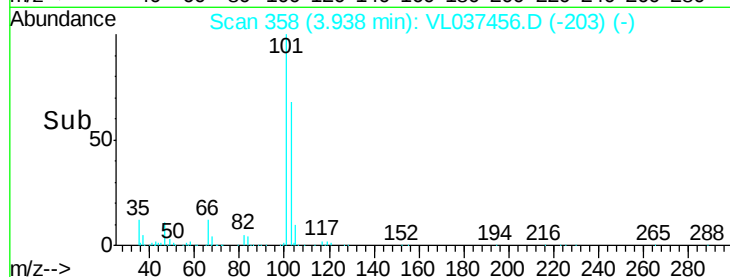
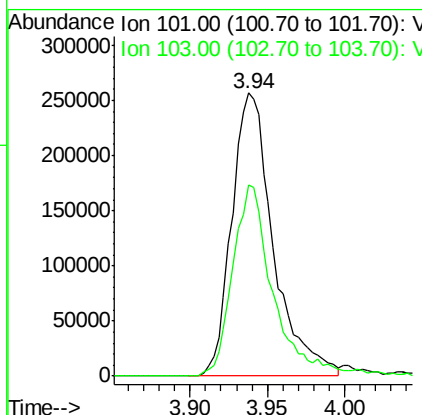
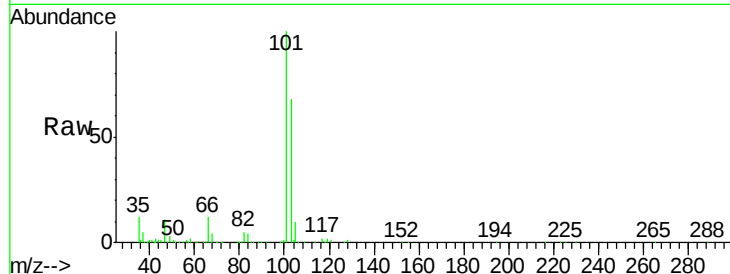
#11
 Trichlorofluoromethane
 Concen: 1.868 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.6	51.8	77.6

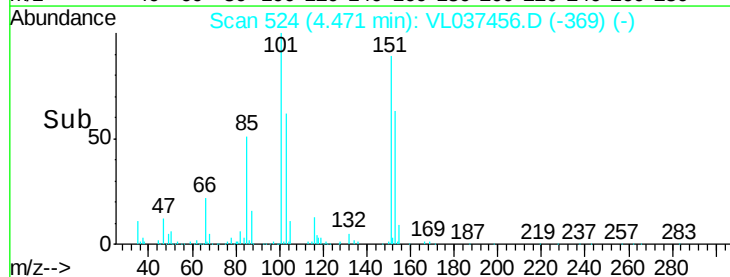
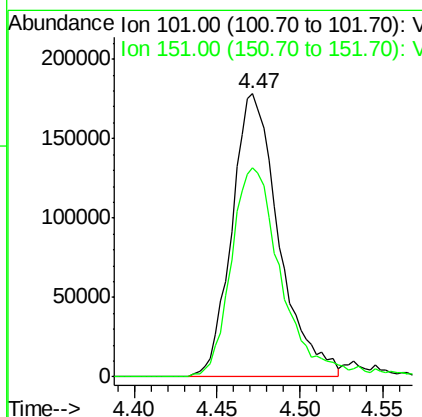
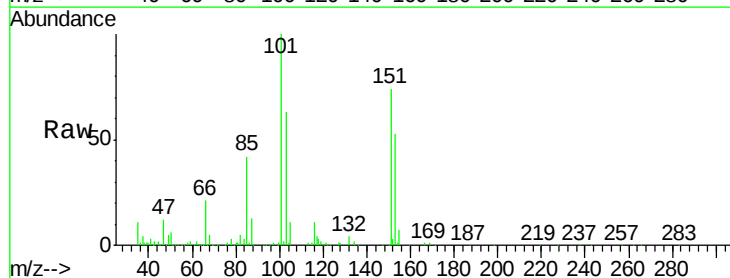
Manual Integrations
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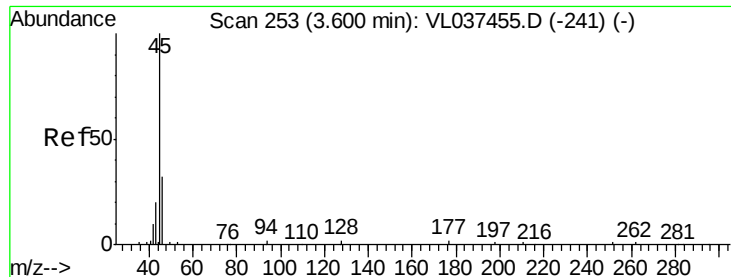
MMDadoda
 8/19/2021 5:58:57 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.951 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
101	100		
151	80.8	63.7	95.5





#13

Ethanol

Concen: 1.953 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 21296

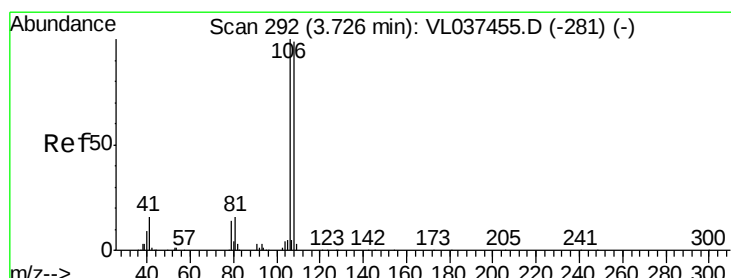
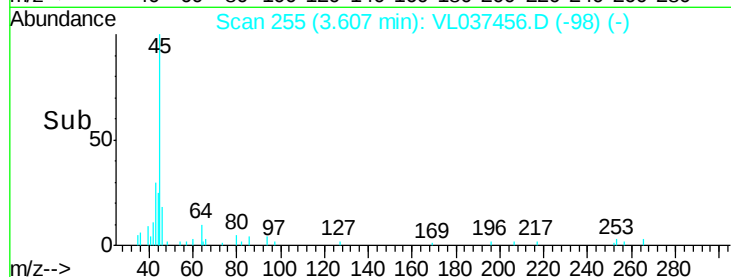
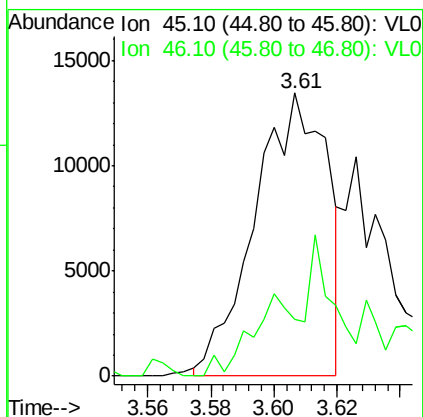
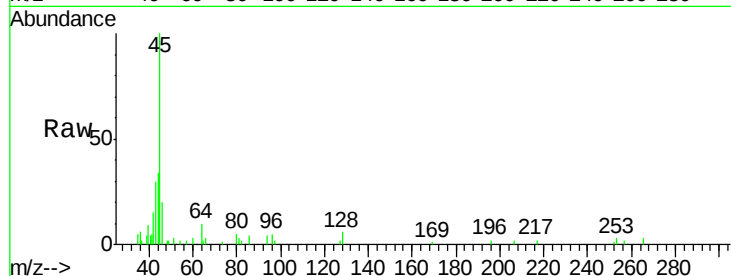
Ion Ratio Lower Upper

45 100

46 0.0 14.1 56.5#

Manual Integrations
APPROVED

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#14

Bromoethene

Concen: 2.001 ppbv m

RT: 3.73 min Scan# 293

Delta R.T. 0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

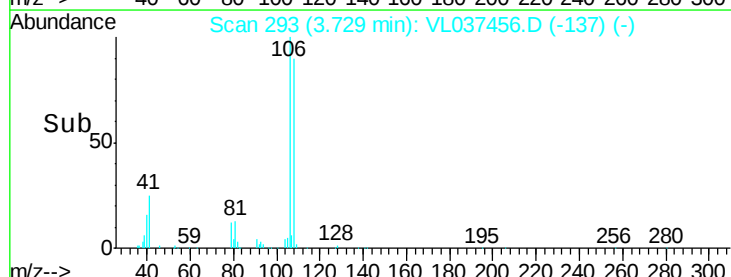
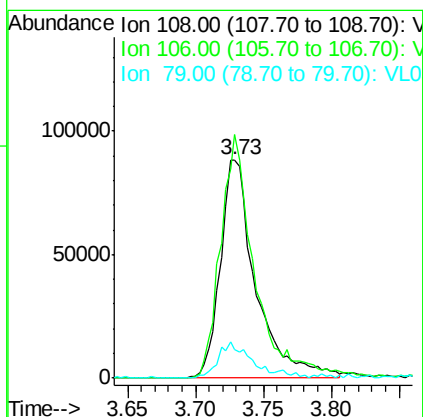
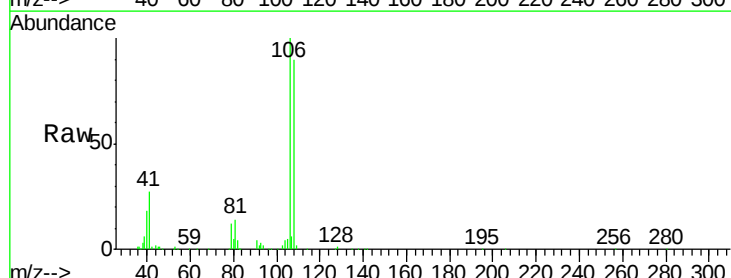
Tgt Ion: 108 Resp: 159783

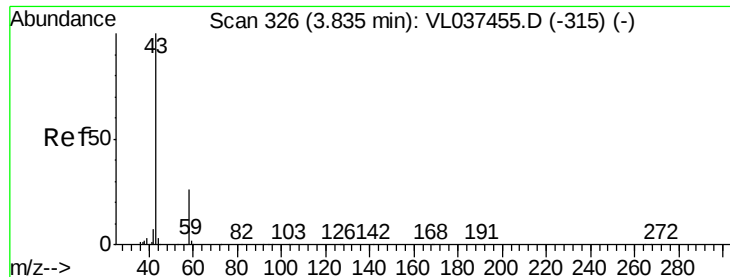
Ion Ratio Lower Upper

108 100

106 110.1 85.8 128.8

79 16.7 12.6 18.8





#15

Acetone

Concen: 2.093 ppbv m

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 344036

Ion Ratio Lower Upper

43 100

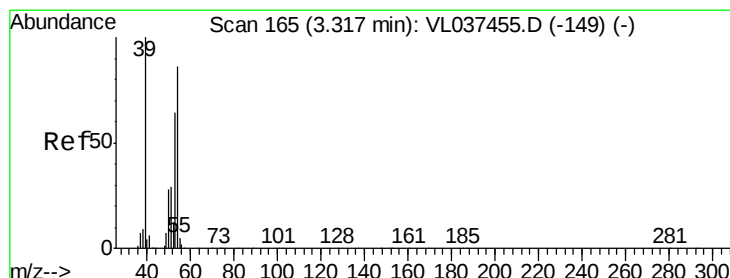
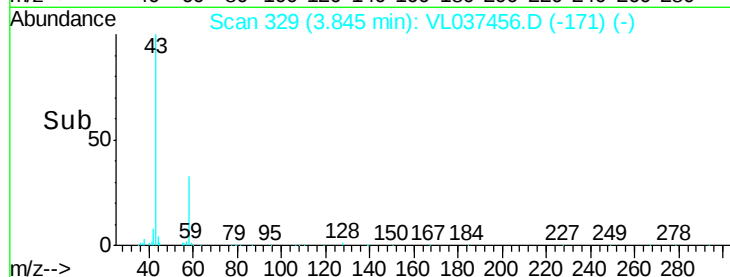
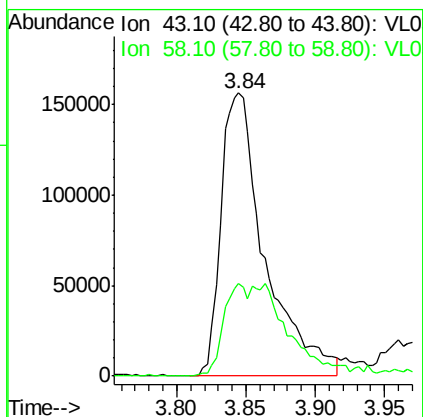
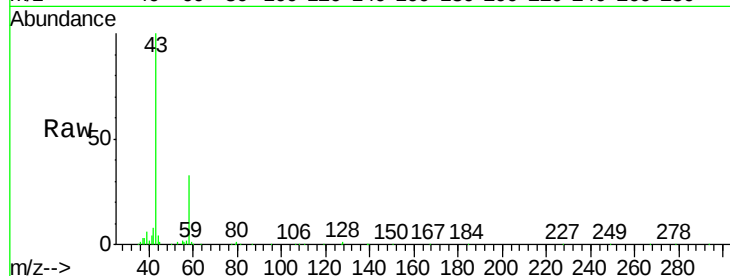
58 47.5 24.8 37.2#

Manual Integrations

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#16

1,3-Butadiene

Concen: 1.963 ppbv m

RT: 3.31 min Scan# 164

Delta R.T. -0.00 min

Lab File: VL037456.D

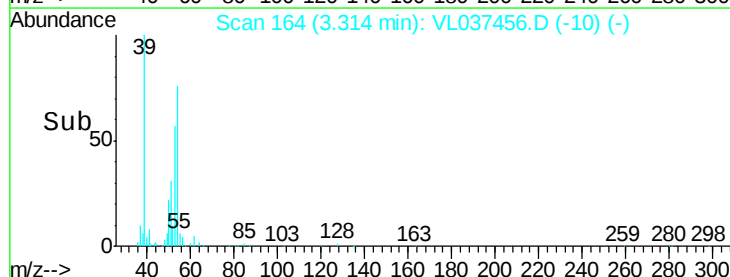
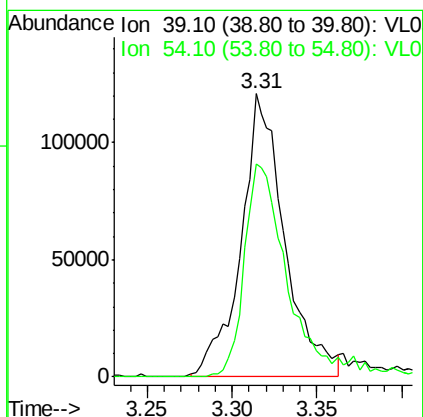
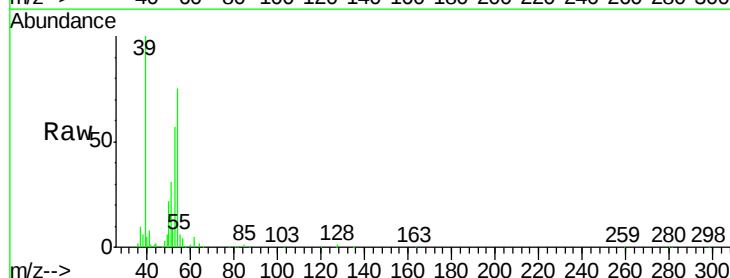
Acq: 16 Aug 2021 11:07

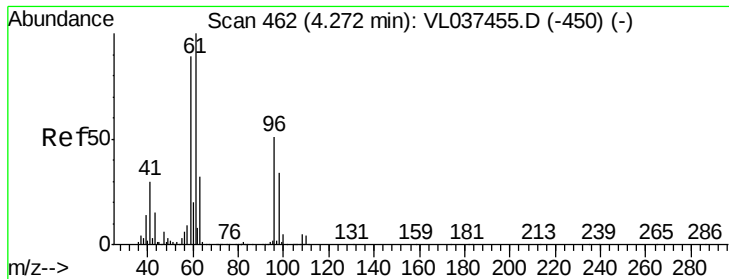
Tgt Ion: 39 Resp: 216571

Ion Ratio Lower Upper

39 100

54 77.3 63.7 95.5





#17

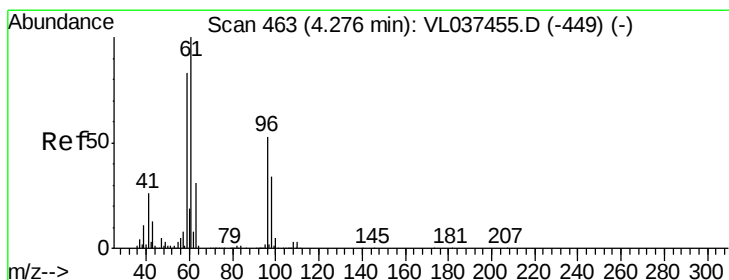
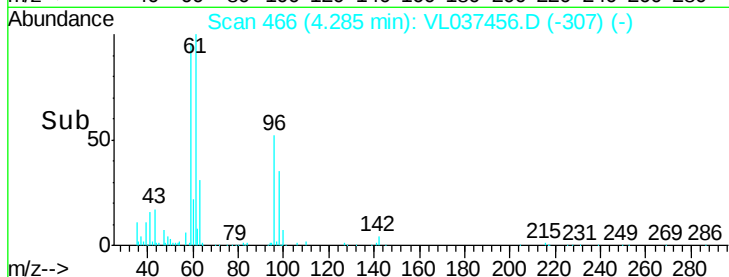
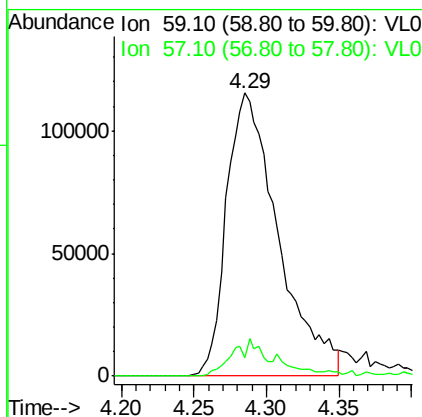
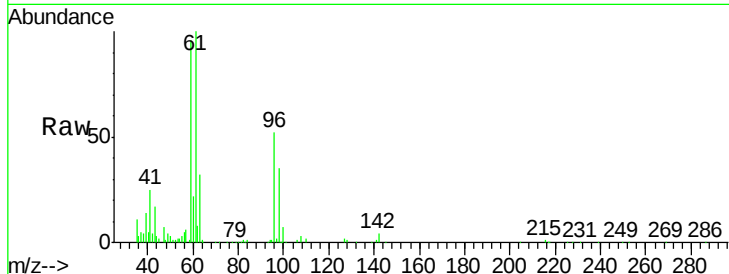
tert-Butyl alcohol
 Concen: 1.821 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.01 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.3	12.5

Manual Integrations
 APPROVED

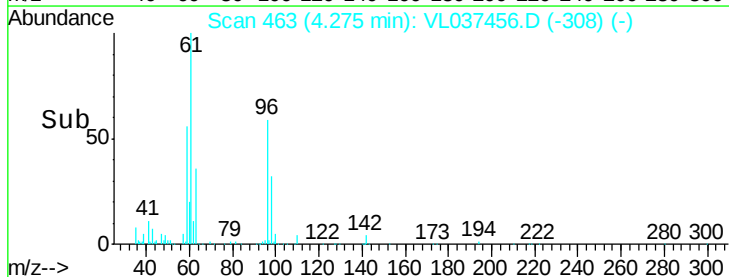
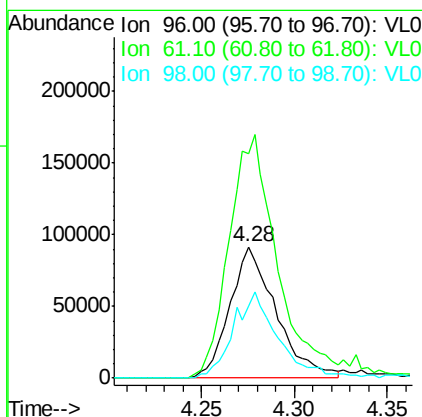
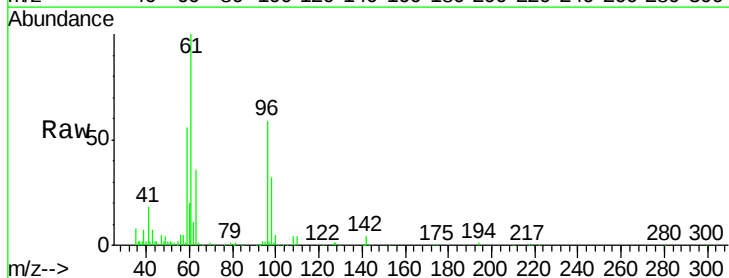
MMDadoda
 8/19/2021 5:58:57 PM

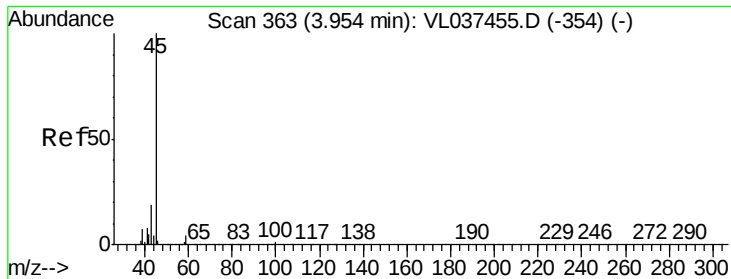


#18

1,1-Dichloroethene
 Concen: 1.900 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.2	151.1	226.7
98	54.6	51.8	77.8





#19

Isopropyl Alcohol

Concen: 1.884 ppbv m

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 180180

Ion Ratio Lower Upper

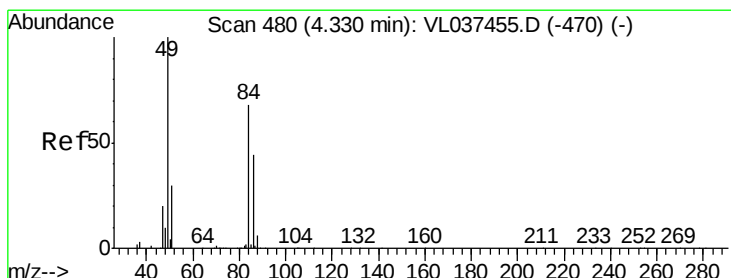
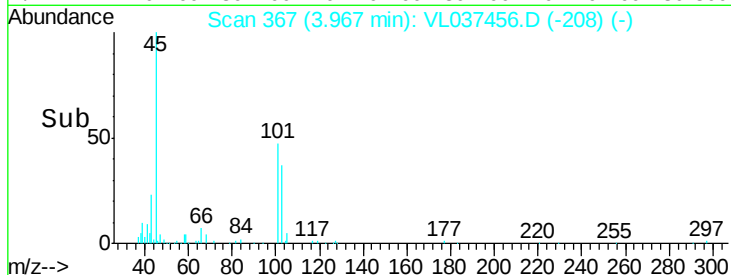
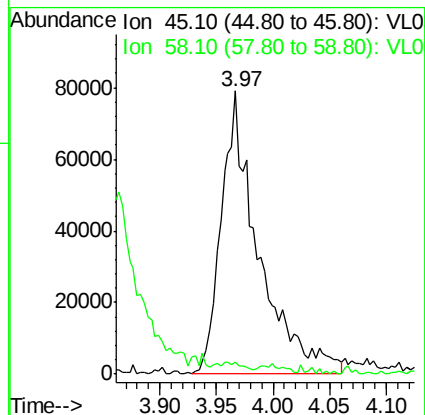
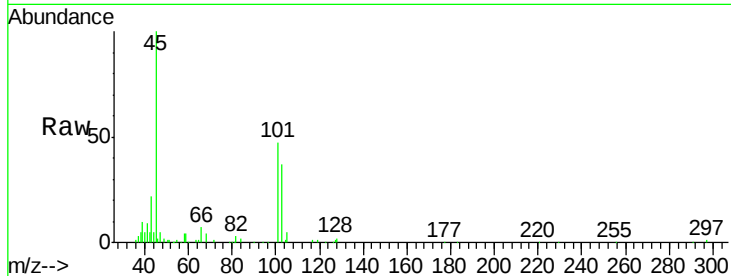
45 100

58 0.0 1.4 2.2#

Manual Integrations
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#20

Methylene Chloride

Concen: 1.946 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion: 84 Resp: 169103

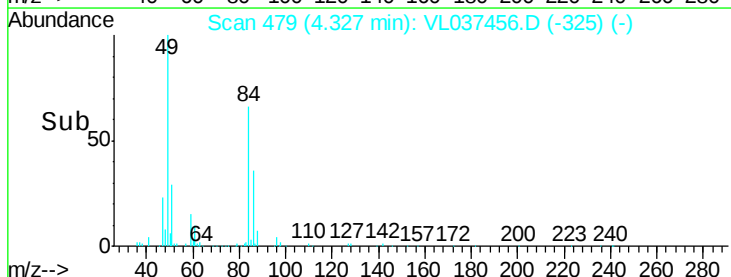
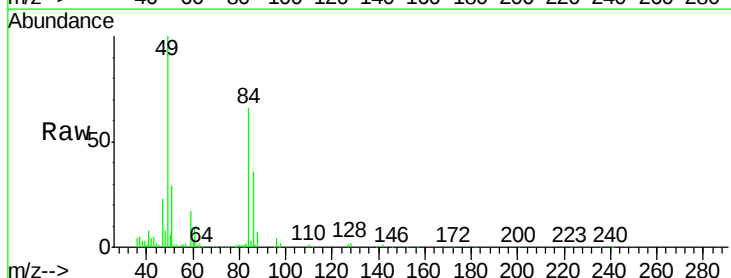
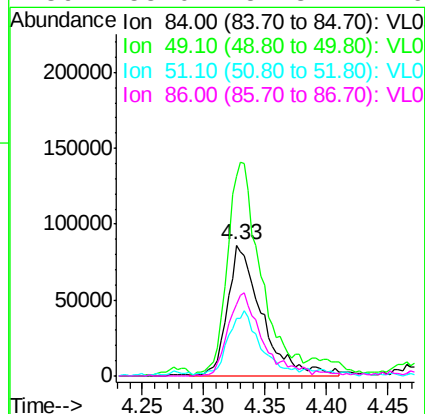
Ion Ratio Lower Upper

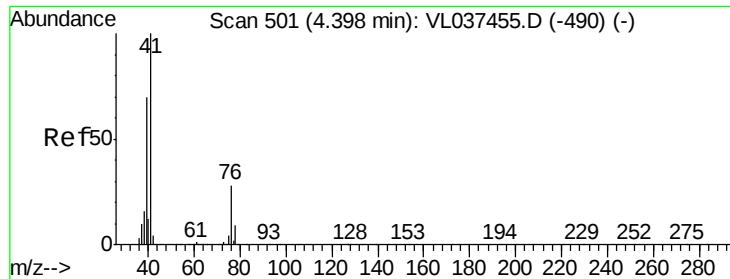
84 100

49 152.6 118.2 177.2

51 43.8 36.6 55.0

86 55.0 51.8 77.6





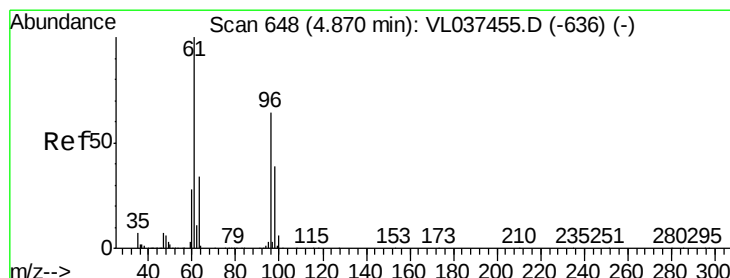
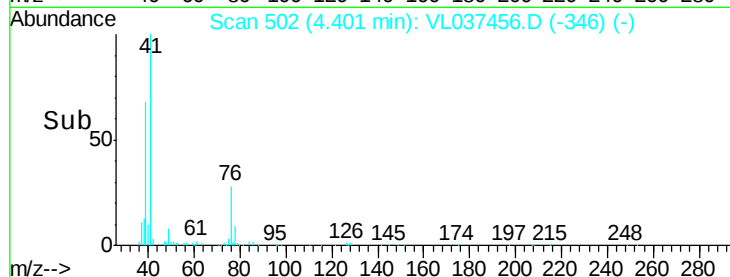
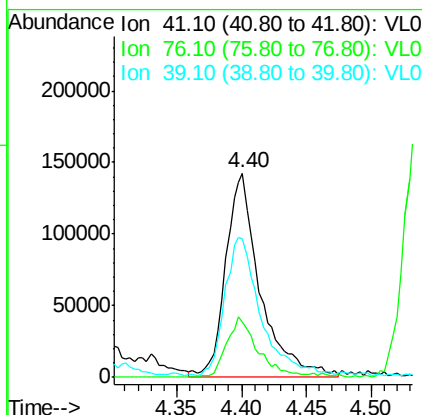
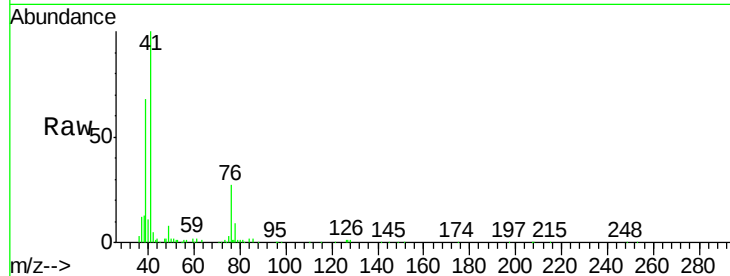
#21
Allvl Chloride
Concen: 2.054 ppbv m
RT: 4.40 min Scan# 502
Delta R.T. 0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.6	21.8	32.6
39	78.3	56.8	85.2

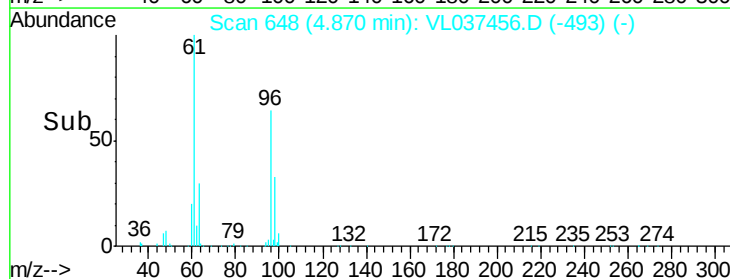
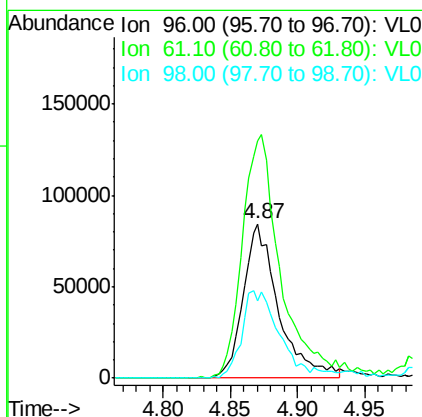
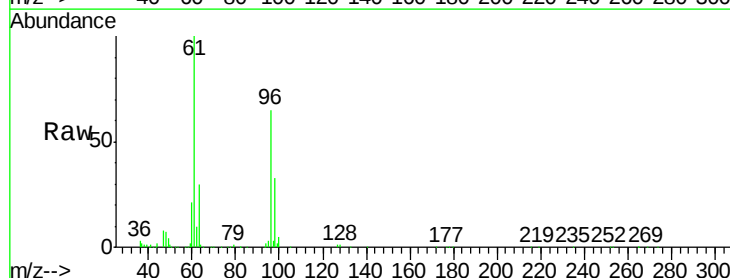
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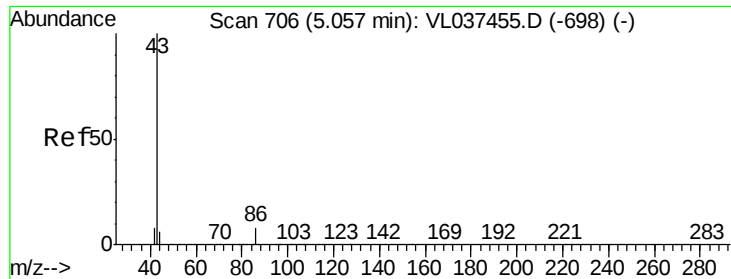
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 1.973 ppbv m
RT: 4.87 min Scan# 648
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.9	125.5	188.3
98	50.1	49.0	73.4





#23

Vinyl Acetate

Concen: 2.114 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL037456.D

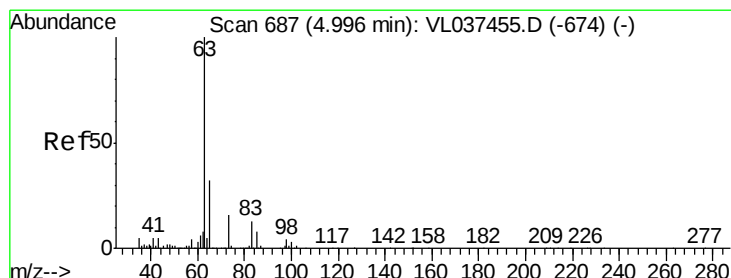
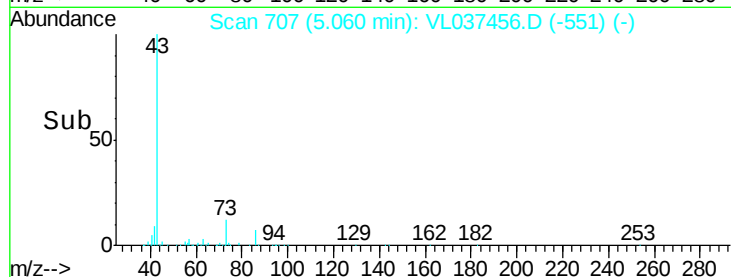
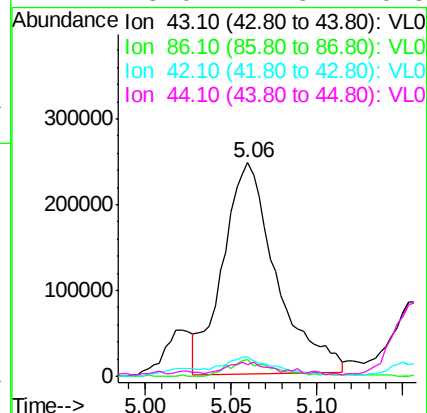
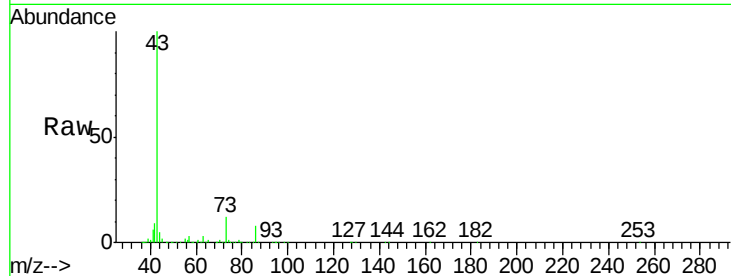
Acq: 16 Aug 2021 11:07

Tot Ion	43	Resp	533188
Ion Ratio	Lower	Upper	
43	100		
86	7.8	5.7	8.5
42	8.8	7.4	11.2
44	5.0	4.3	6.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 1.843 ppbv m

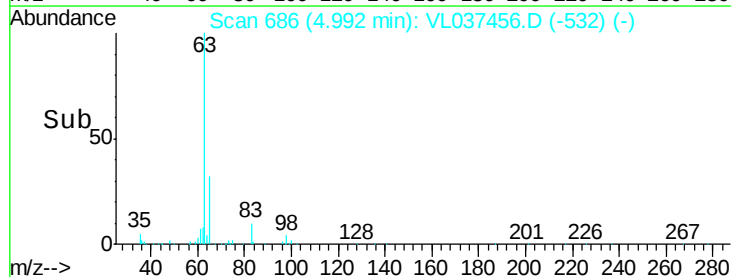
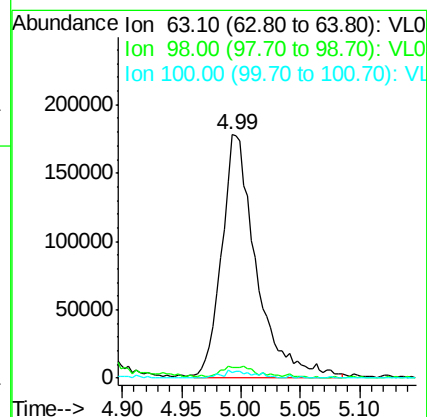
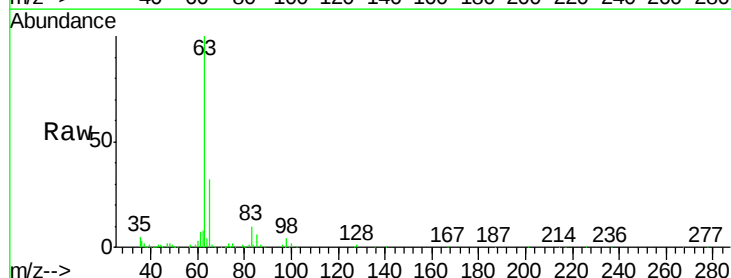
RT: 4.99 min Scan# 686

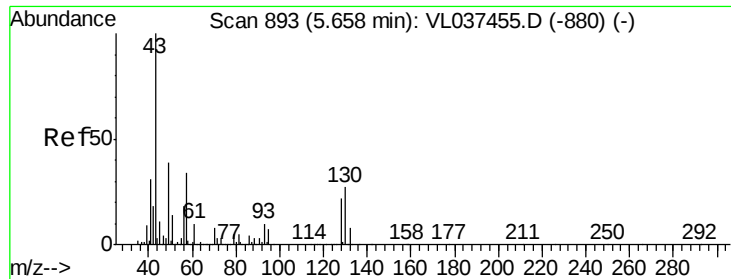
Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion	63	Resp	361035
Ion Ratio	Lower	Upper	
63	100		
98	4.2	2.1	6.3
100	2.3	1.6	4.7





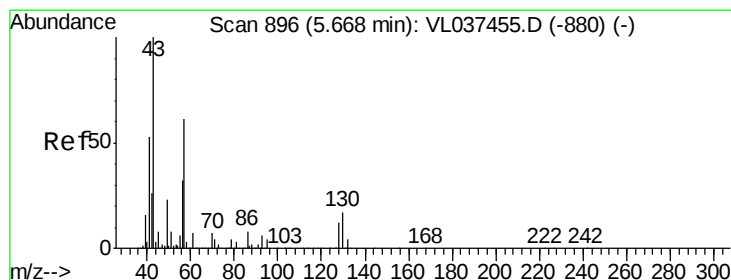
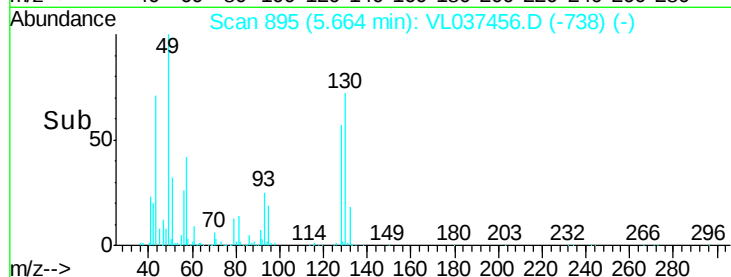
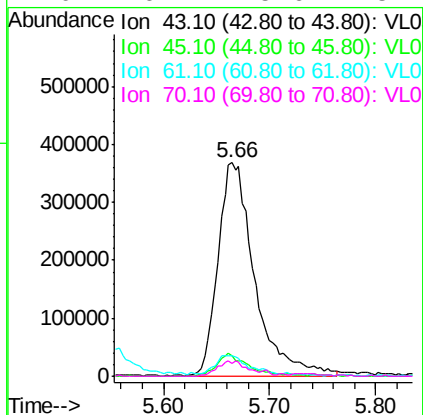
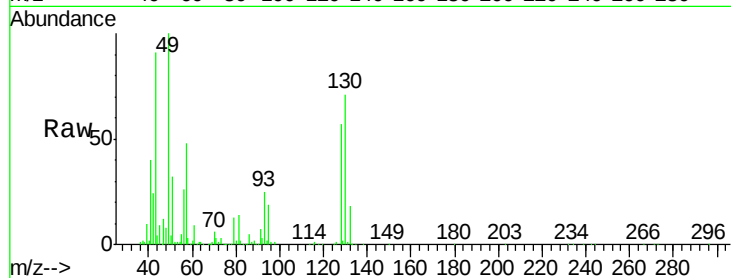
#25
Ethyl Acetate
Concen: 2.264 ppbv m
RT: 5.66 min Scan# 895
Delta R.T. 0.01 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
43	100	886760		
45	9.1		8.0	12.0
61	9.6		8.0	12.0
70	6.7		5.6	8.4

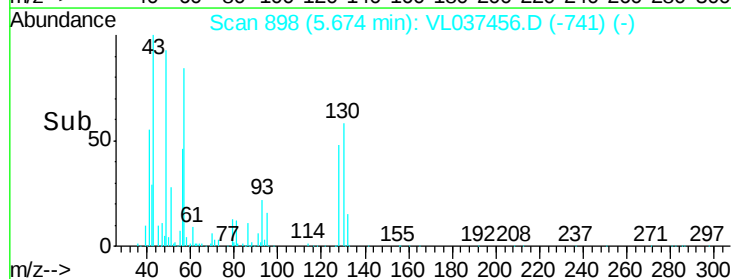
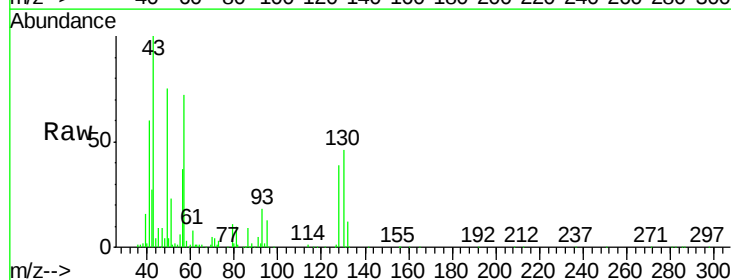
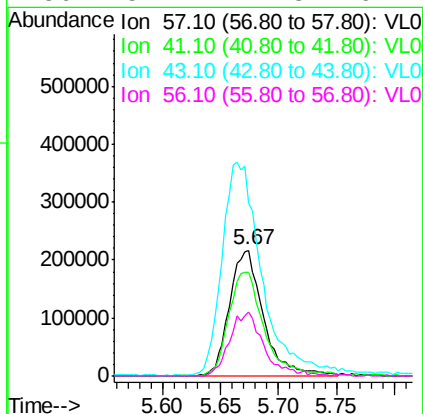
Manual Integrations
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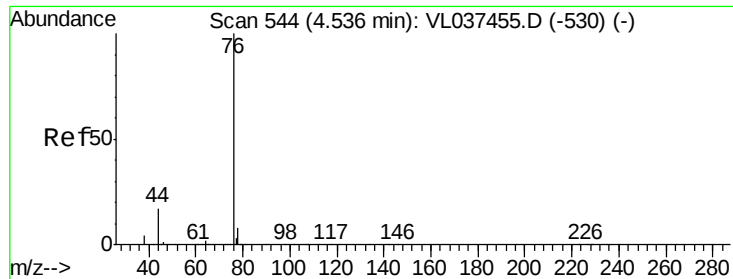
MMDadoda
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#26
Hexane
Concen: 2.170 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	438599		
41	88.2		72.3	108.5
43	202.7		172.3	258.5
56	51.7		42.8	64.2





#27

Carbon Disulfide

Concen: 2.085 ppbv m

RT: 4.54 min Scan# 545

Delta R.T. 0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

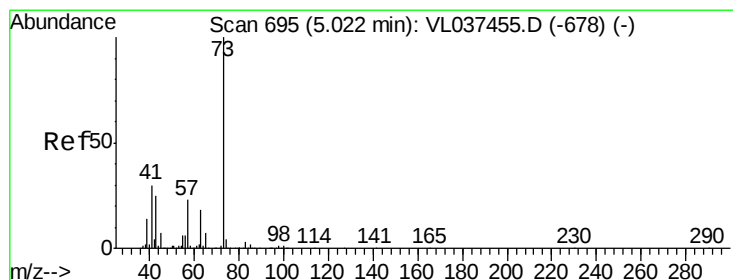
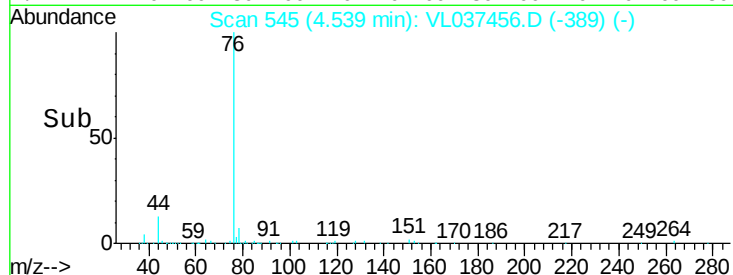
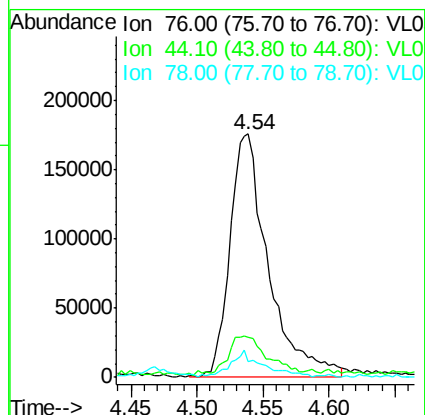
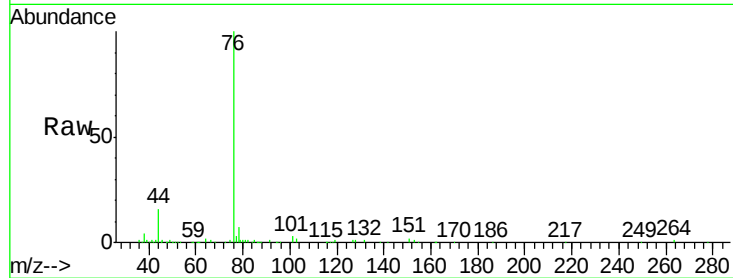
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	355336
Ion	Ratio	Lower	Upper
76	100		
44	18.7	13.9	20.9
78	9.8	7.9	11.9

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#28

Methyl tert-Butyl Ether

Concen: 2.011 ppbv m

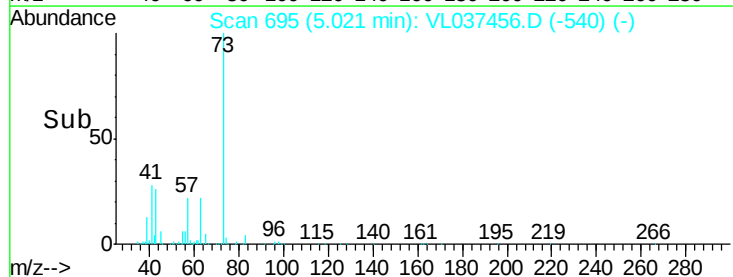
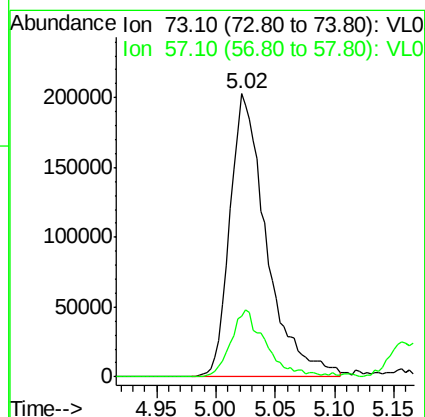
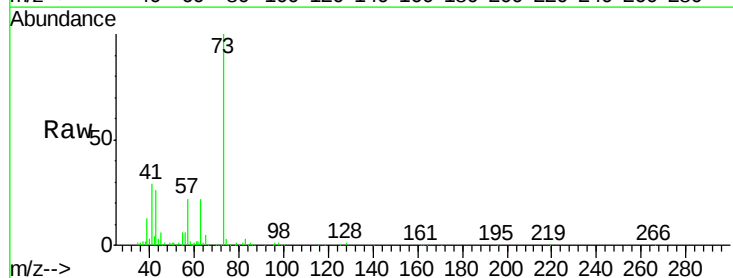
RT: 5.02 min Scan# 695

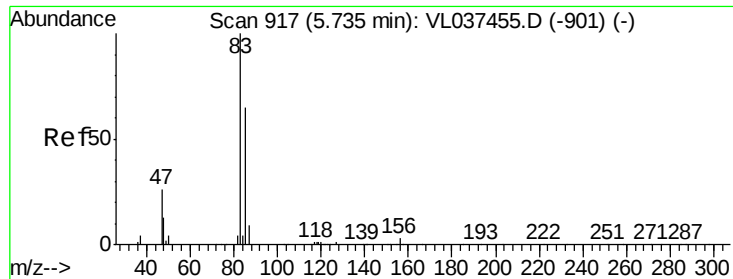
Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion:	73	Resp:	435135
Ion	Ratio	Lower	Upper
73	100		
57	23.2	19.4	29.2





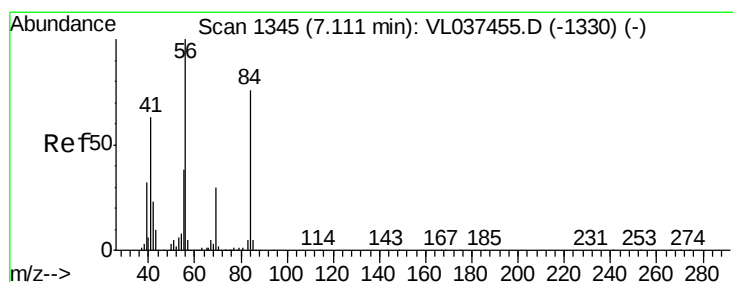
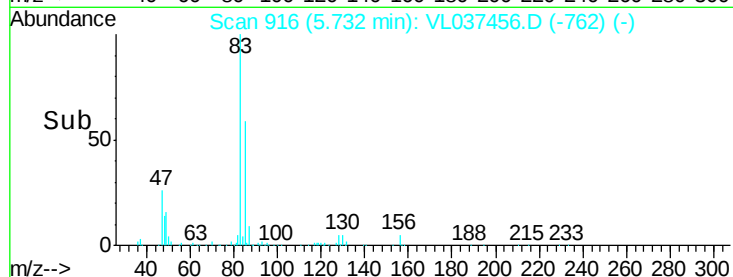
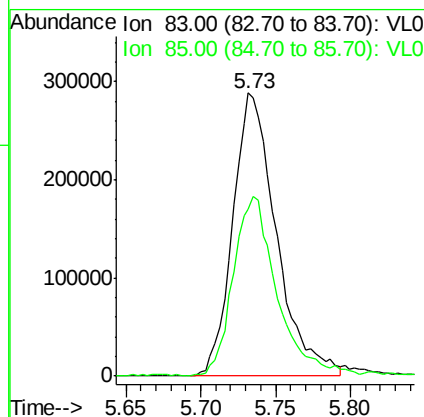
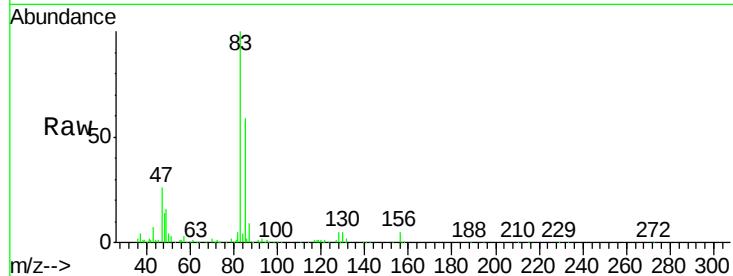
#29
Chloroform
Concen: 2.039 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	580244
Ion Ratio	100	Lower	Upper
83	100		
85	58.9	52.3	78.5

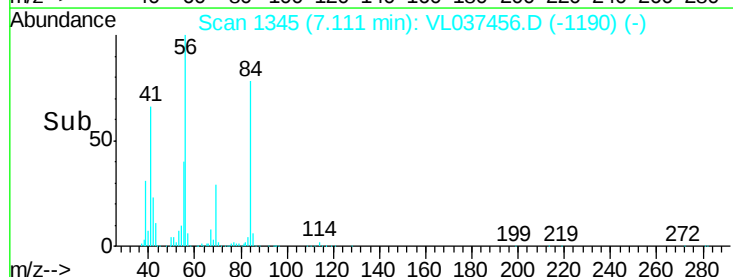
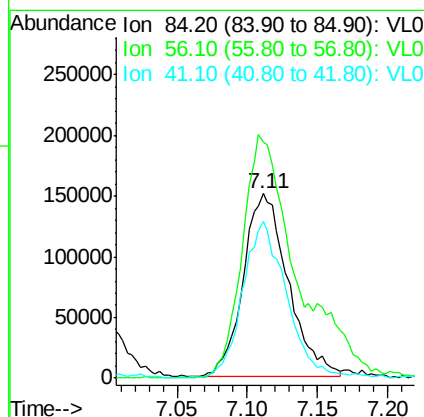
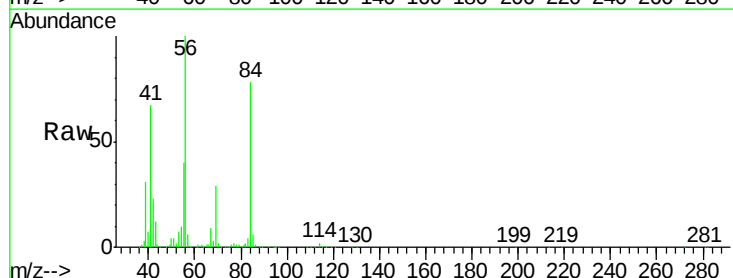
Manual Integrations
APPROVED

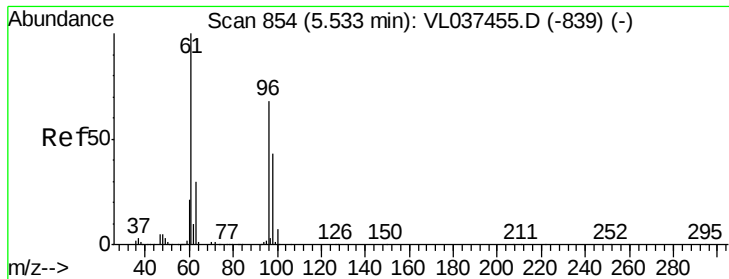
MMDadoda
8/19/2021 5:58:57 PM



#30
Cyclohexane
Concen: 2.021 ppbv
RT: 7.11 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion	84	Resp	336497
Ion Ratio	100	Lower	Upper
84	100		
56	165.3	110.6	165.8
41	84.9	67.0	100.6





#31

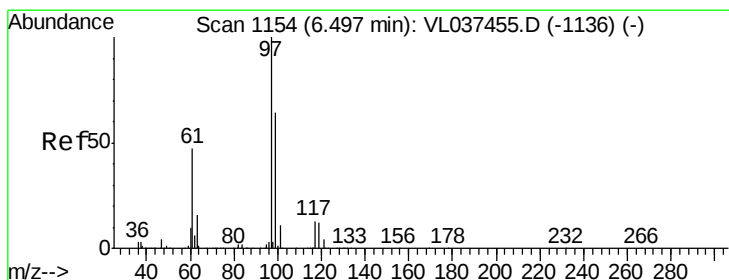
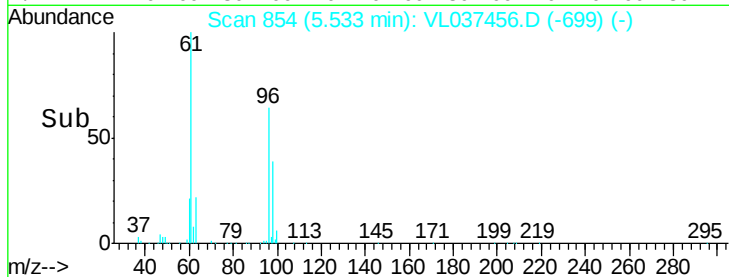
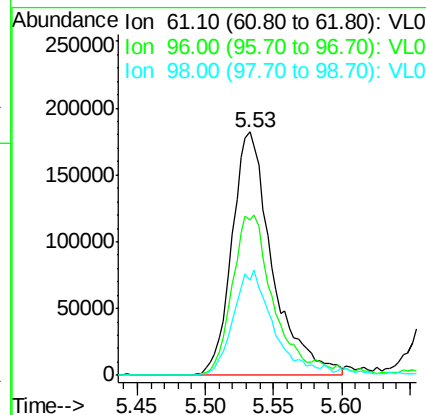
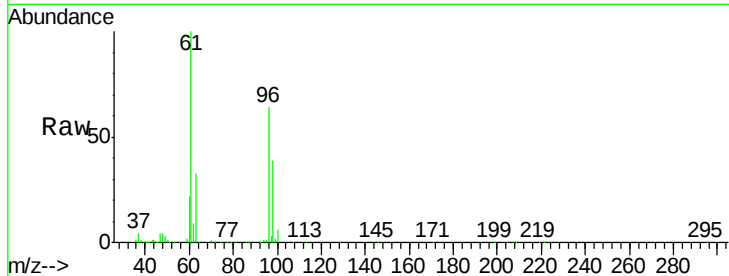
cis-1,2-Dichloroethene
 Concen: 2.145 ppbv
 RT: 5.53 min Scan# 854
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.6	54.8	82.2
98	39.0	34.2	51.2

Manual Integrations
 APPROVED

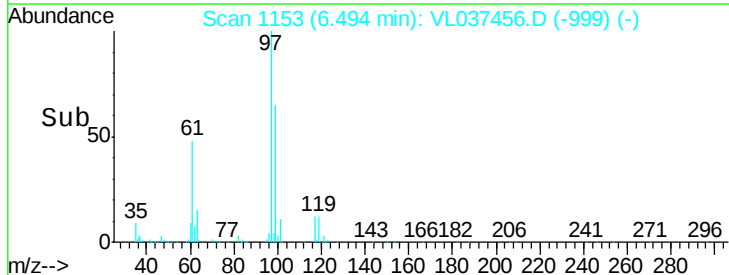
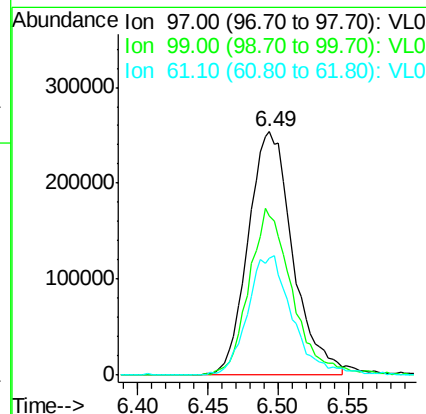
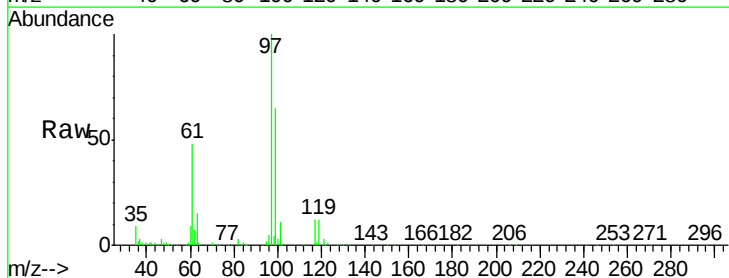
MMDadoda
 8/19/2021 5:58:57 PM

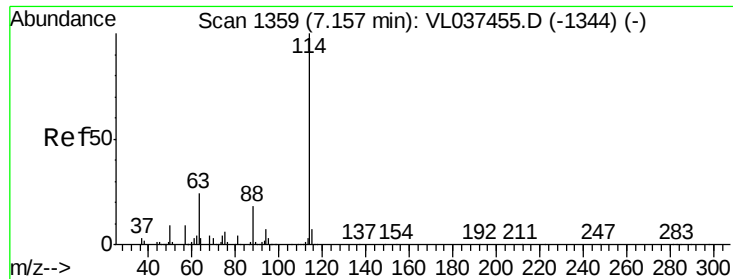


#32

1,1,1-Trichloroethane
 Concen: 1.958 ppbv
 RT: 6.49 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.6	51.8	77.6
61	49.9	39.6	59.4





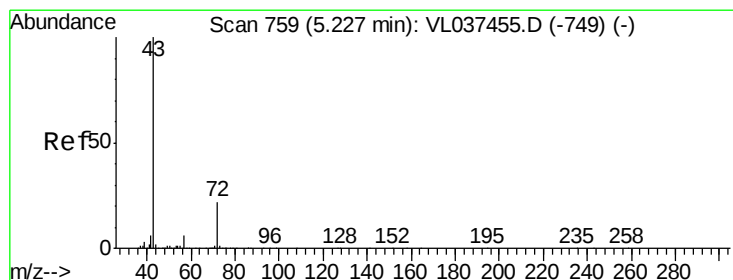
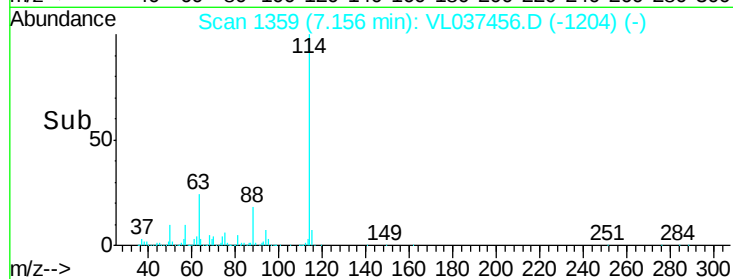
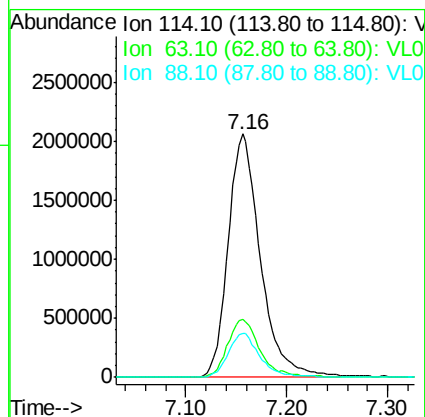
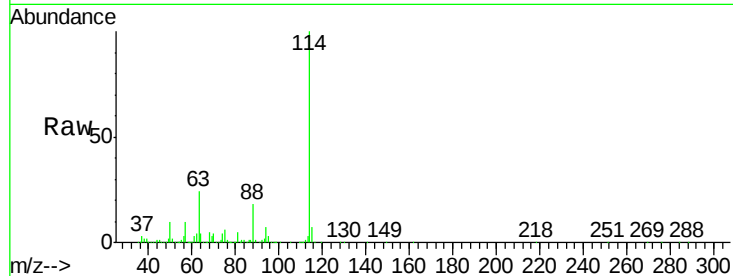
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.3	28.9
88	18.1	14.2	21.4

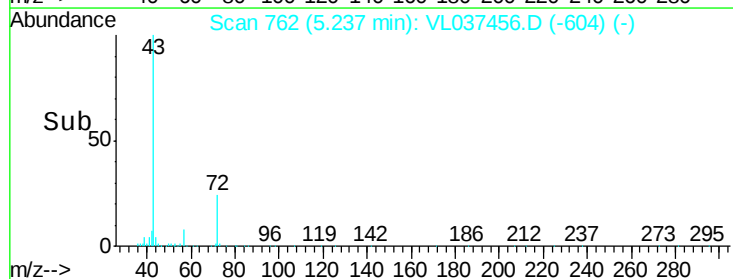
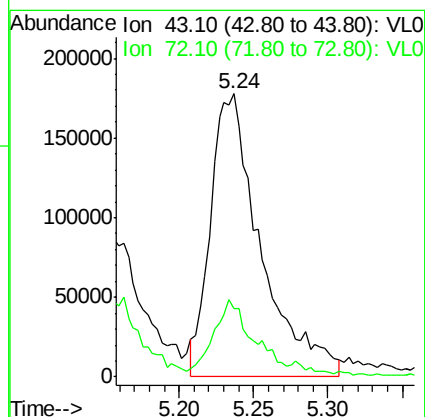
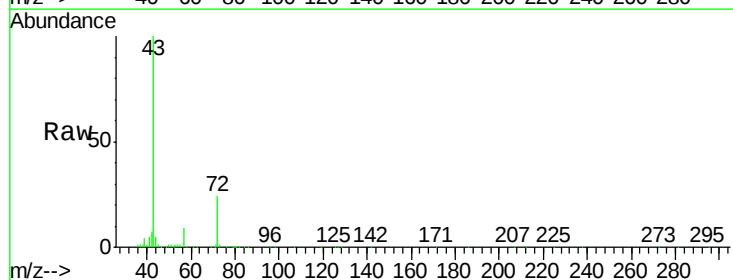
Manual Integrations
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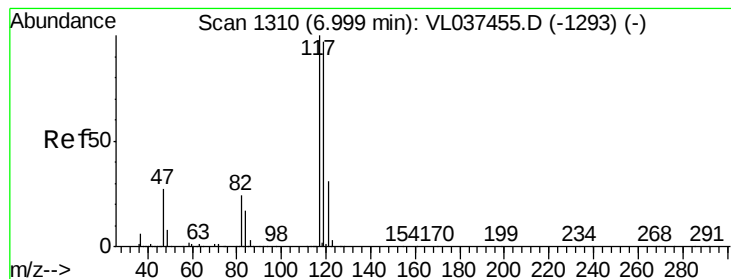
MMDadoda
 8/19/2021 5:58:57 PM



#34
 2-Butanone
 Concen: 2.197 ppbv m
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.7	17.4	26.0





#35

Carbon Tetrachloride

Concen: 2.023 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

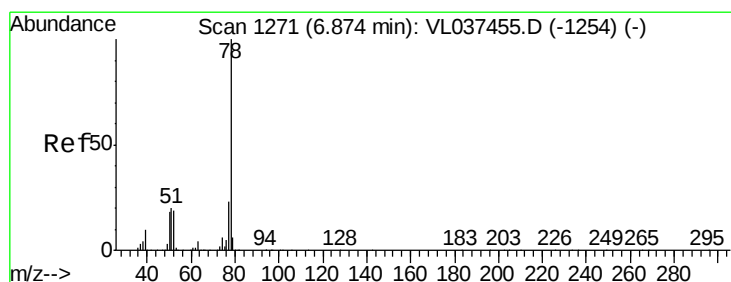
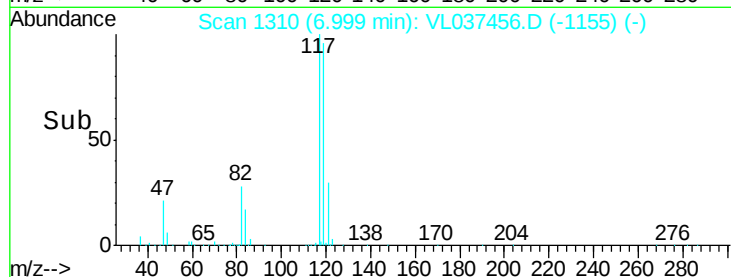
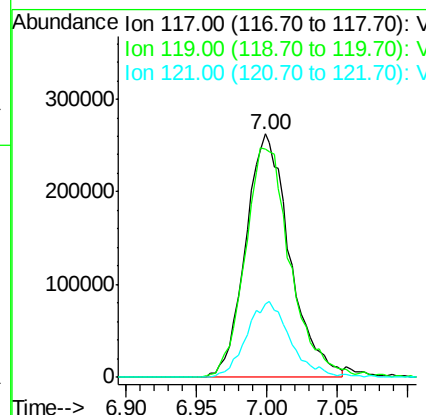
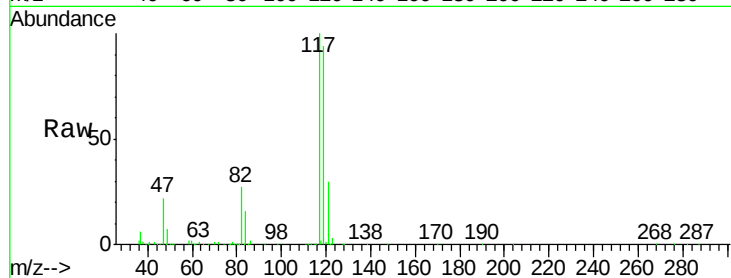
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	574131
Ion Ratio	Lower	Upper	
117	100		
119	94.0	77.3	115.9
121	30.3	25.2	37.8

Manual Integrations
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8/19/2021 5:58:57 PM



#36

Benzene

Concen: 2.171 ppbv

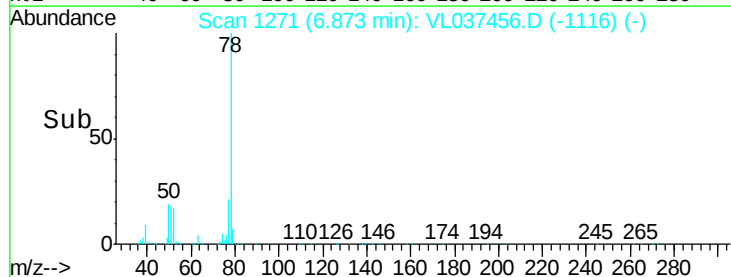
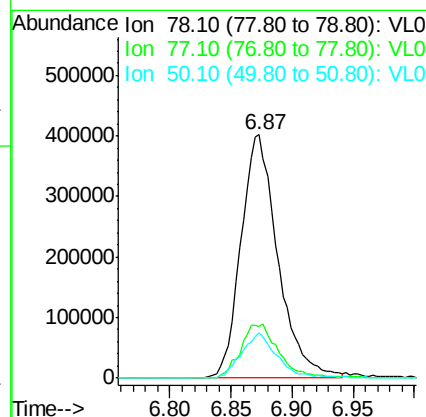
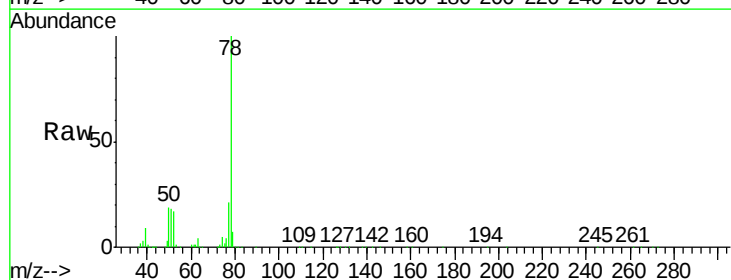
RT: 6.87 min Scan# 1271

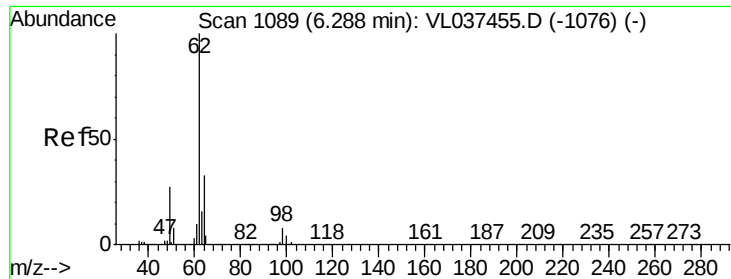
Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion:	78	Resp:	842714
Ion Ratio	Lower	Upper	
78	100		
77	21.1	18.2	27.4
50	18.7	14.6	21.8





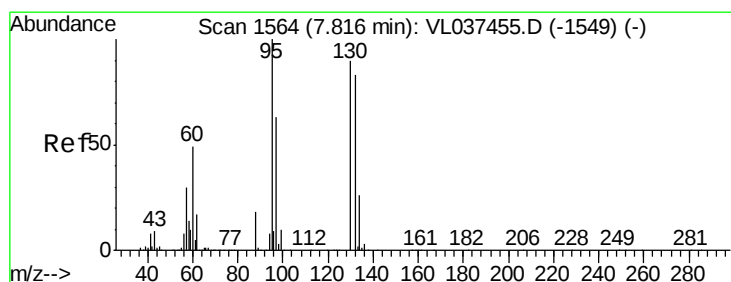
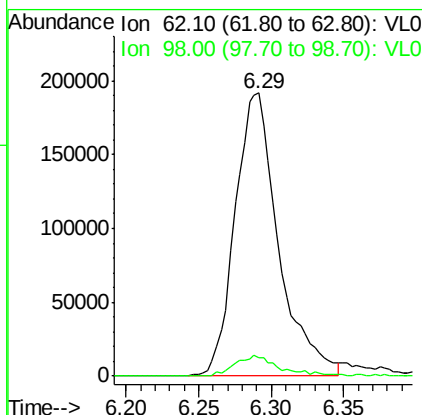
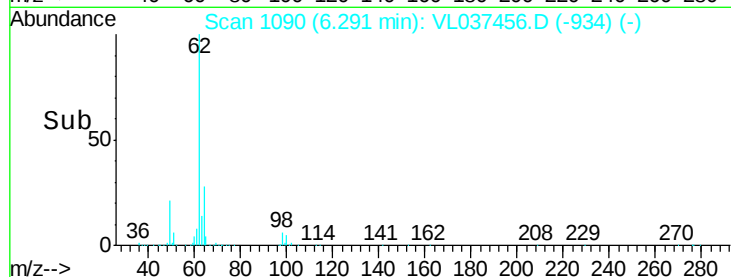
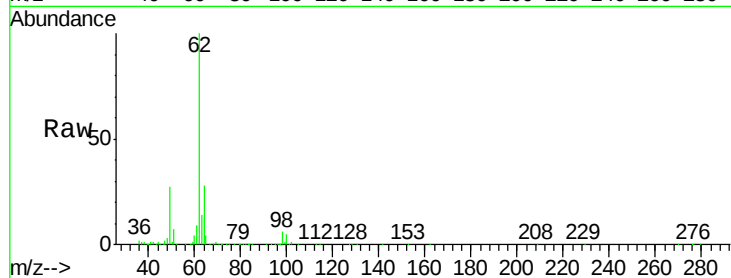
#37
 1,2-Dichloroethane
 Concen: 2.016 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	399192		
98	8.2	6.0	9.0	

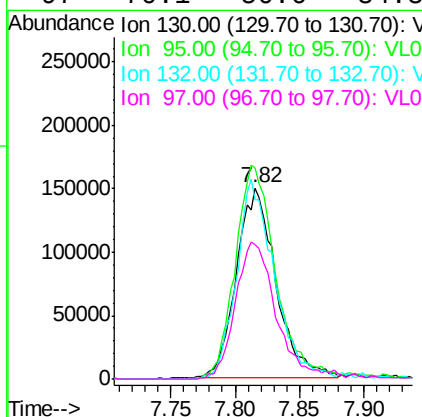
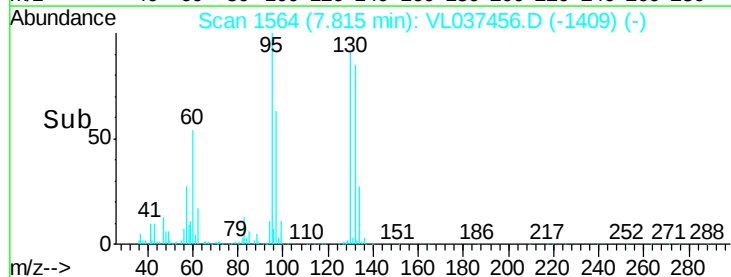
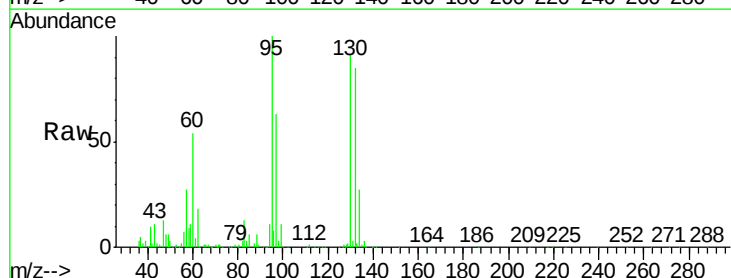
Manual Integrations
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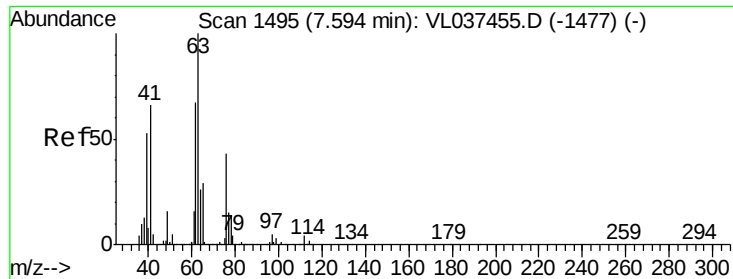
MMDadoda
 8/19/2021 5:58:57 PM



#38
 Trichloroethene
 Concen: 1.884 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	322713		
95	110.8	89.2	133.8	
132	94.3	74.0	111.0	
97	70.1	56.6	84.8	





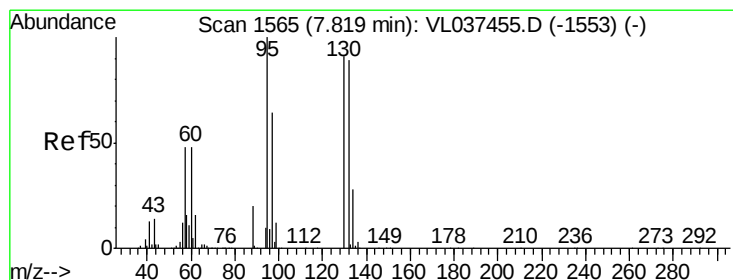
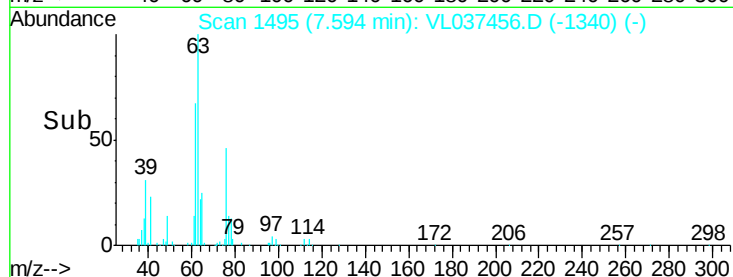
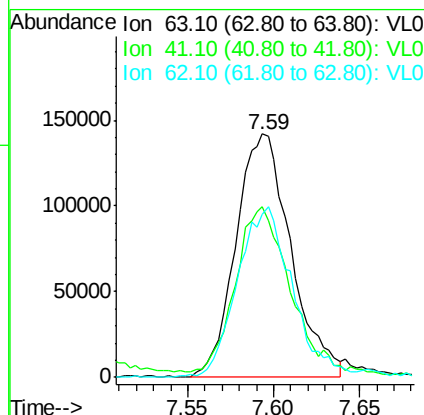
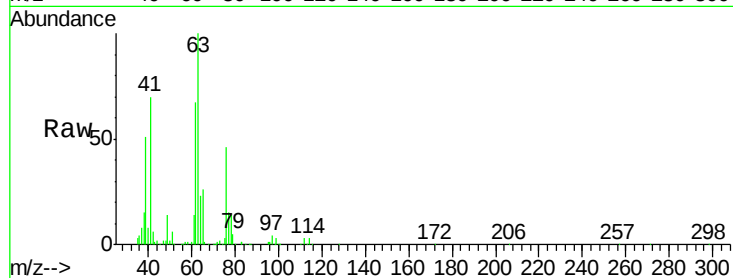
#39
 1,2-Dichloropropane
 Concen: 2.113 ppbv
 RT: 7.59 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	63	Resp	312367
Ion Ratio	Lower	Upper	
63	100		
41	68.4	52.4	78.6
62	65.7	53.6	80.4

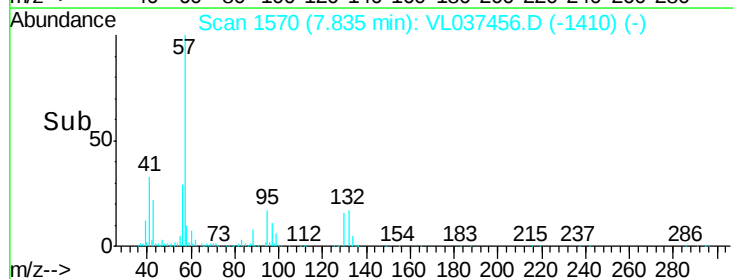
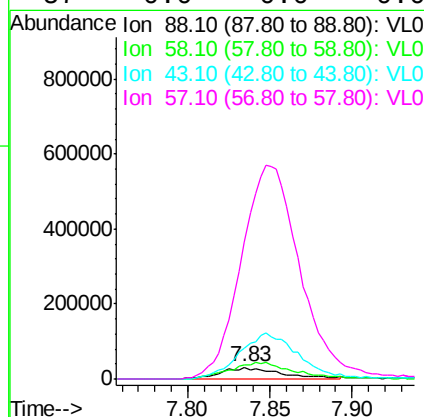
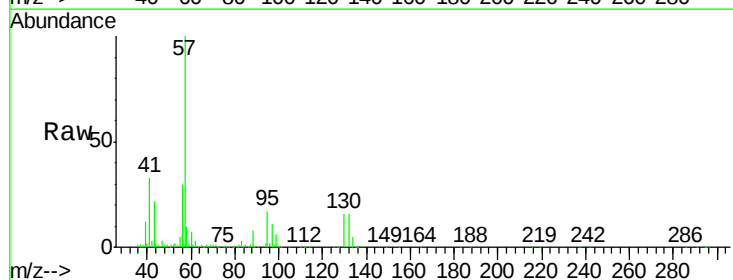
Manual Integrations
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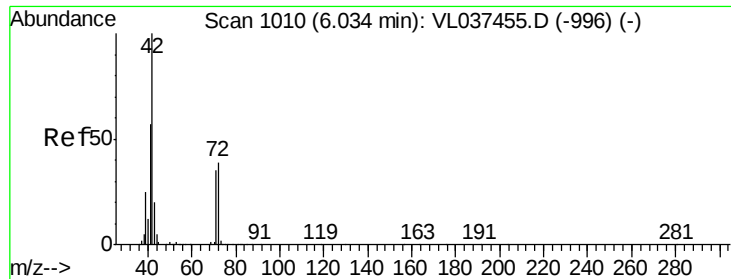
MMDadoda
 8/19/2021 5:58:57 PM



#40
 1,4-Dioxane
 Concen: 2.127 ppbv m
 RT: 7.83 min Scan# 1570
 Delta R.T. 0.02 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	88	Resp	76526
Ion Ratio	Lower	Upper	
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 2.215 ppbv m

RT: 6.04 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 42 Resp: 193241

Ion Ratio Lower Upper

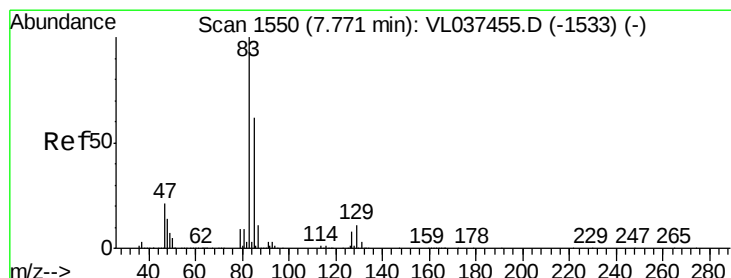
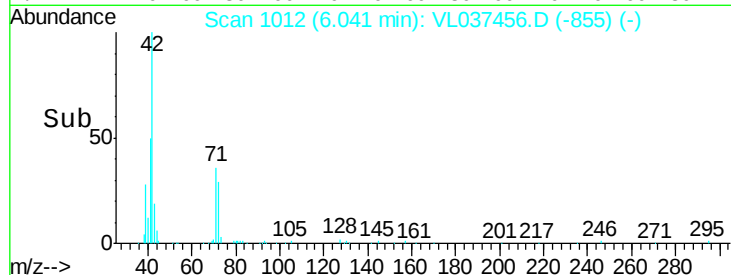
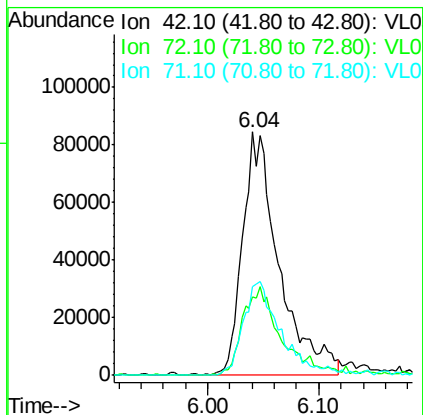
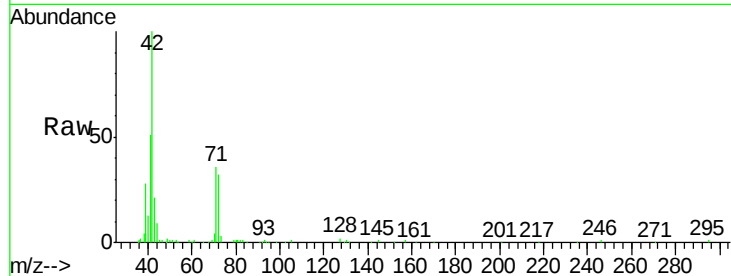
42 100

72 0.0 32.2 48.4#

71 0.0 30.5 45.7#

Manual Integrations
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MMDadoda
8/19/2021 5:58:57 PM



#42

Bromodichloromethane

Concen: 2.066 ppbv

RT: 7.77 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

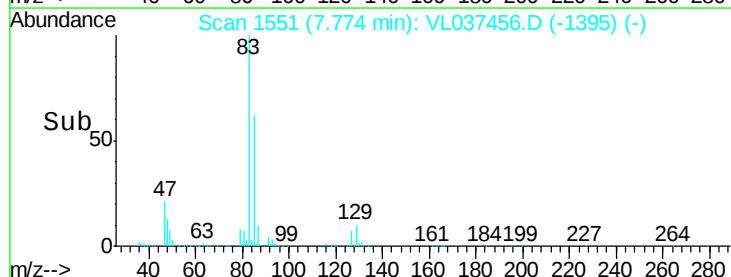
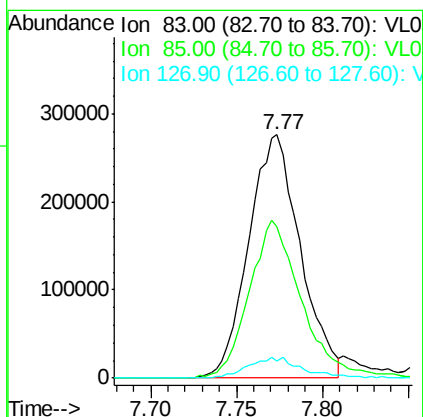
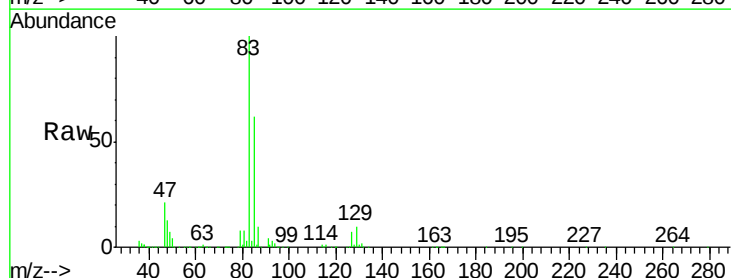
Tgt Ion: 83 Resp: 572833

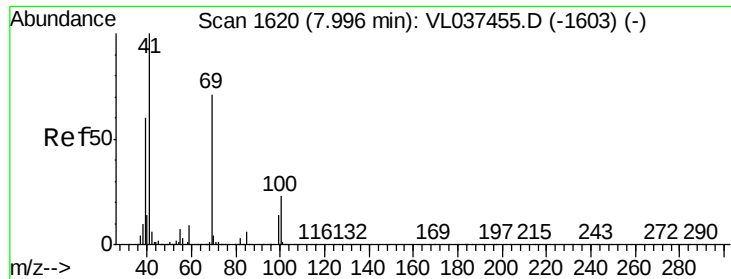
Ion Ratio Lower Upper

83 100

85 62.2 49.5 74.3

127 7.2 6.3 9.5





#43

Methvl Methacrilate

Concen: 2.161 ppbv m

RT: 8.00 min Scan# 1620

Delta R.T. -0.00 min

Lab File: VL037456.D

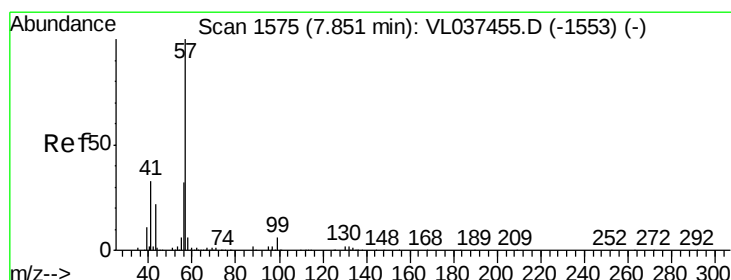
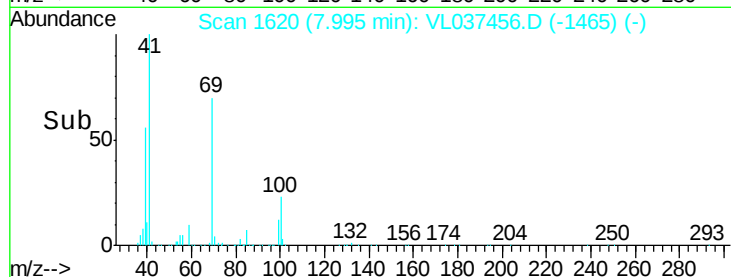
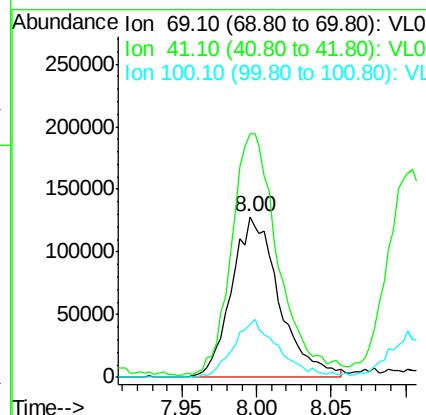
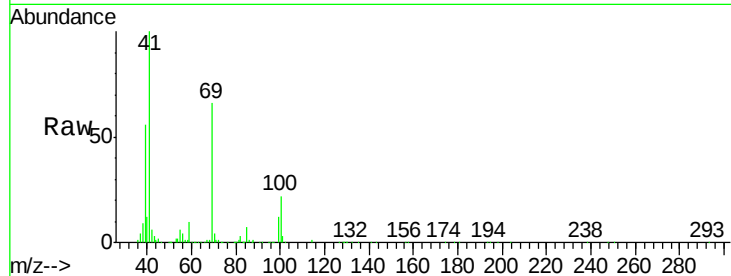
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		284290		
41	150.1	118.6	178.0		
100	34.8	27.4	41.0		

Manual Integrations
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MMDadoda
8/19/2021 5:58:57 PM



#44

2,2,4-Trimethylpentane

Concen: 2.192 ppbv

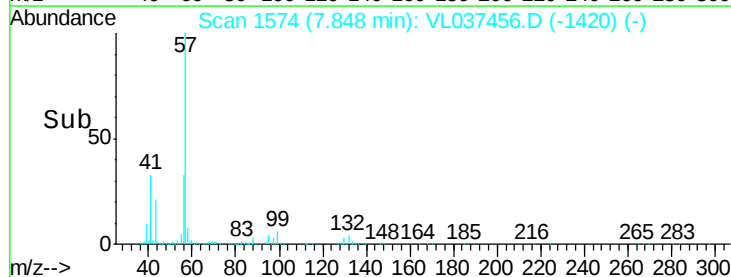
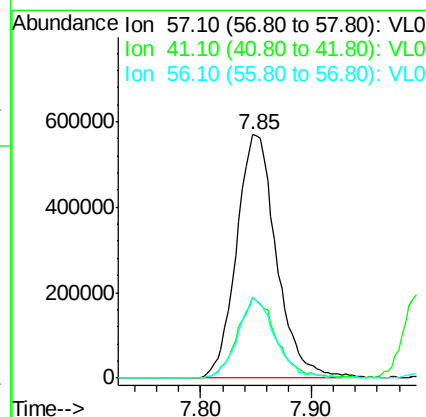
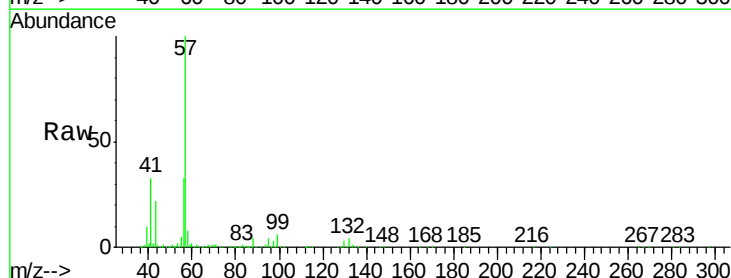
RT: 7.85 min Scan# 1574

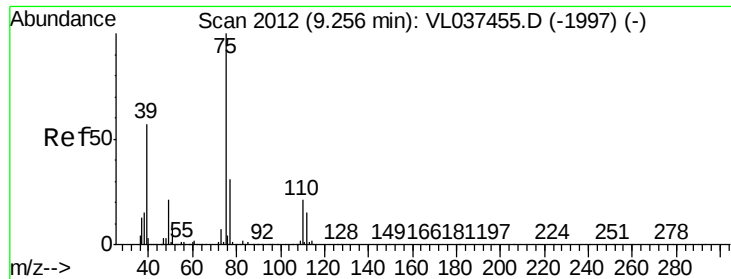
Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		1422351		
41	32.1	26.2	39.4		
56	31.7	25.4	38.2		





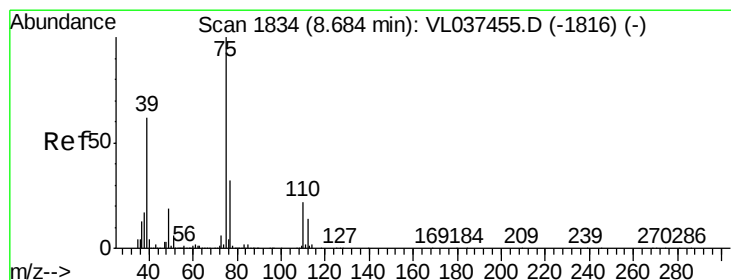
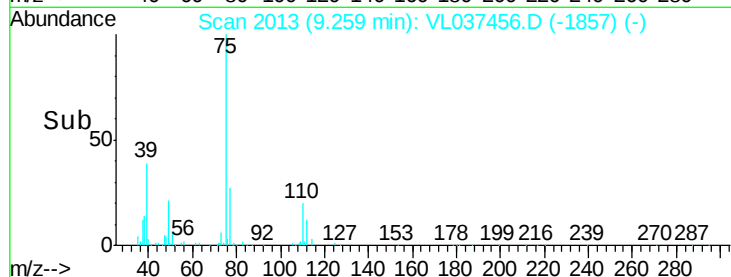
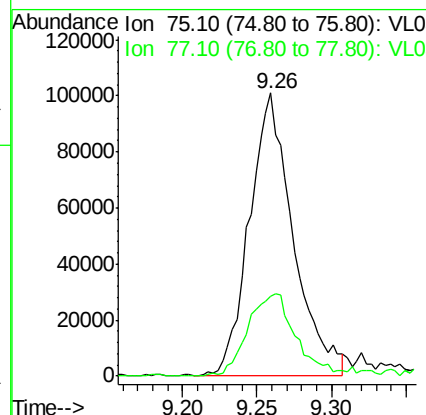
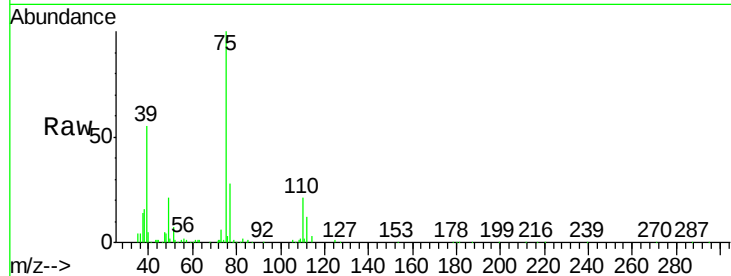
#45
t-1,3-Dichloropropene
Concen: 2.111 ppbv m
RT: 9.26 min Scan# 2013
Delta R.T. 0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 75 Resp: 206328
Ion Ratio Lower Upper
75 100
77 28.3 24.5 36.7

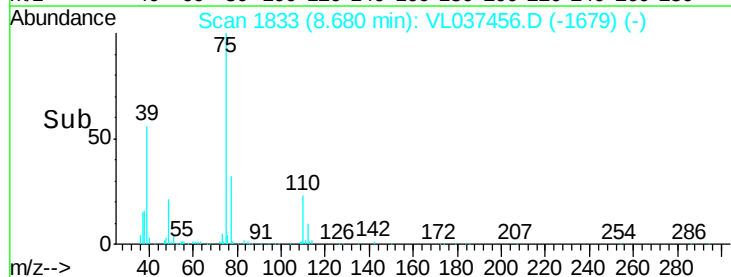
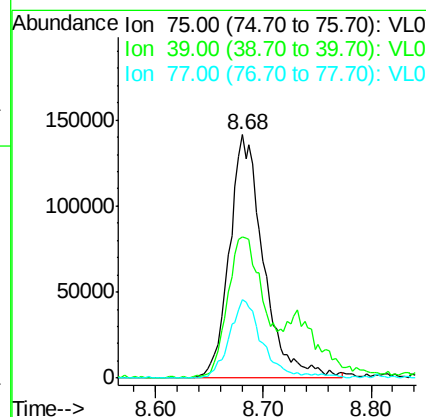
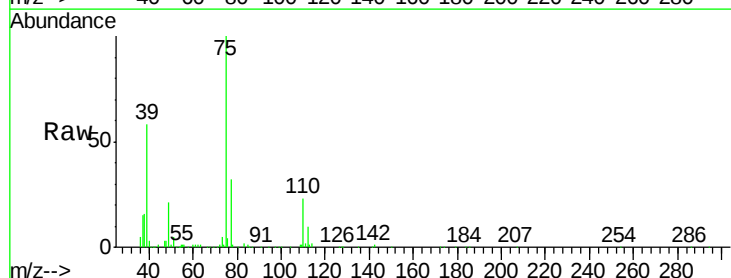
Manual Integrations
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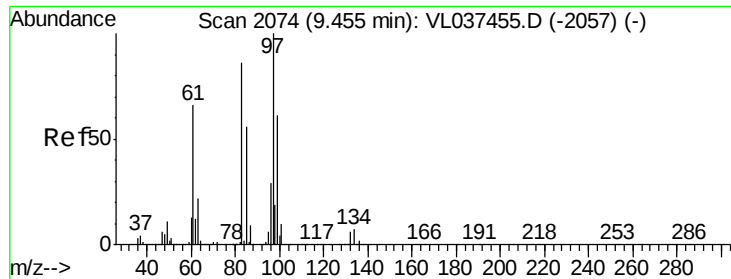
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 2.267 ppbv m
RT: 8.68 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion: 75 Resp: 309400
Ion Ratio Lower Upper
75 100
39 57.9 49.7 74.5
77 32.2 25.4 38.0





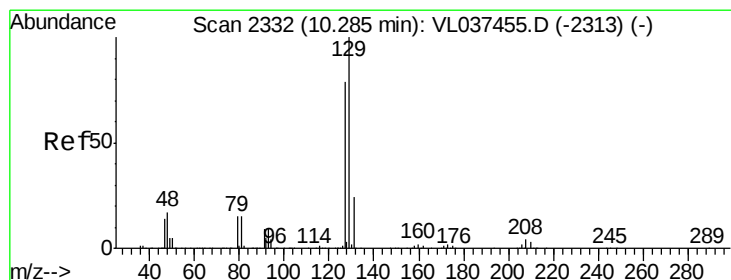
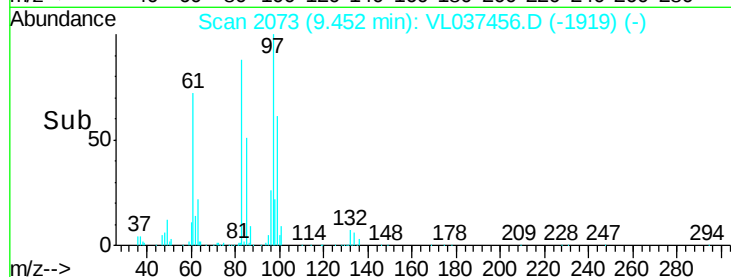
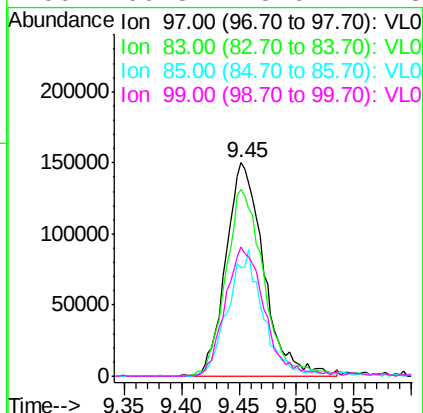
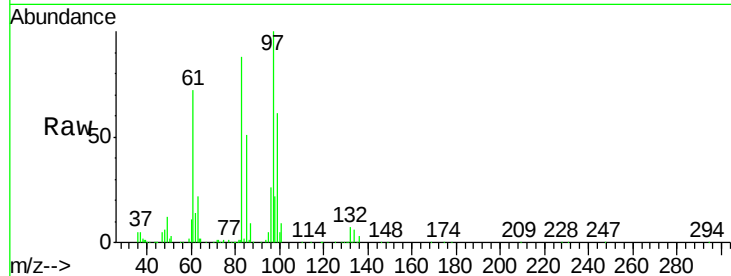
#47
 1,1,2-Trichloroethane
 Concen: 2.147 ppbv m
 RT: 9.45 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		343090		
83	87.6	68.7	103.1		
85	51.1	44.7	67.1		
99	60.8	48.6	72.8		

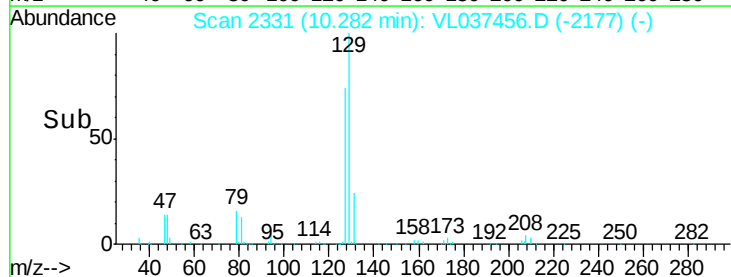
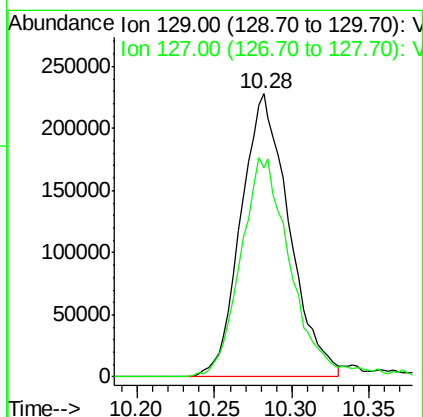
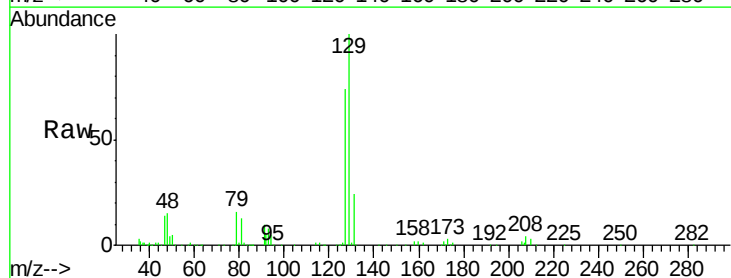
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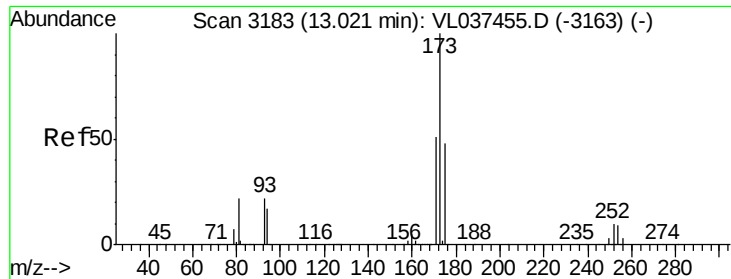
MMDadoda
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#48
 Dibromochloromethane
 Concen: 2.128 ppbv
 RT: 10.28 min Scan# 2331
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		490683		
127	81.0	40.0	120.0		





#49

Bromoform

Concen: 2.301 ppbv m

RT: 13.02 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

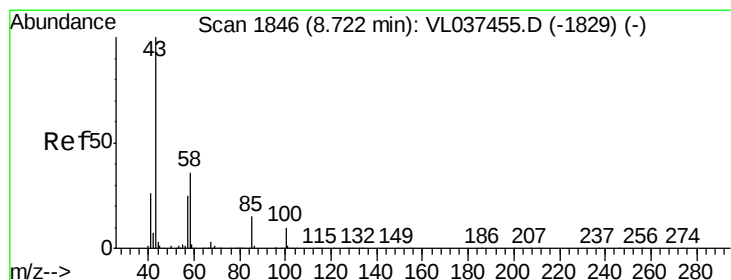
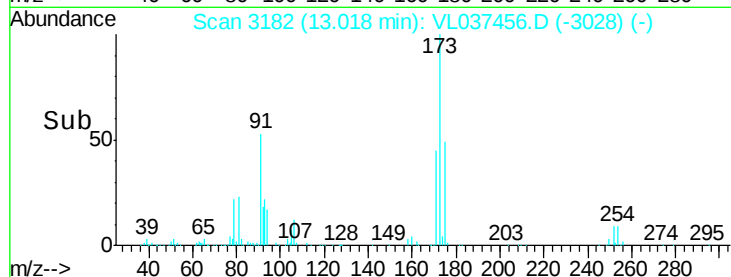
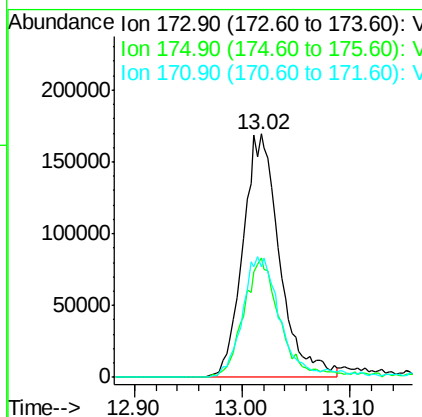
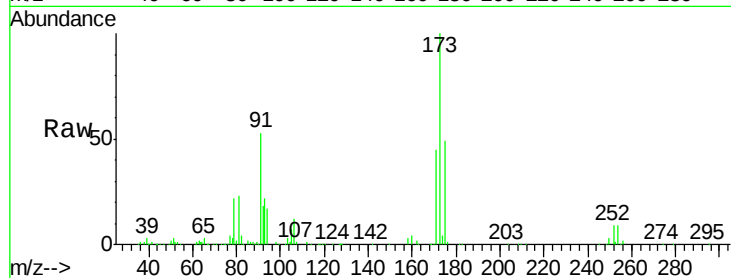
ClientSampleId :

VSTDIC002

Tot Ion:	173	Resp:	402080
Ion Ratio	Lower	Upper	
173	100		
175	48.4	41.9	62.9
171	52.0	44.2	66.4

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#50

4-Methyl-2-Pentanone

Concen: 2.149 ppbv

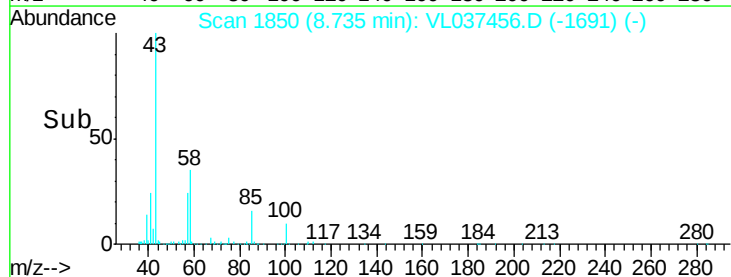
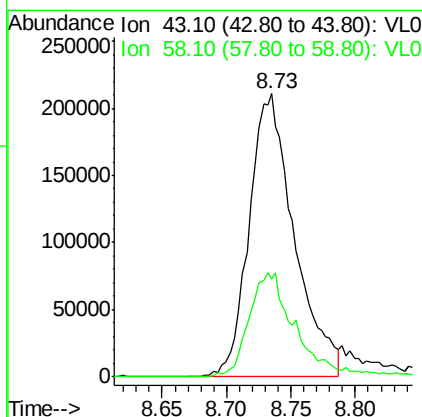
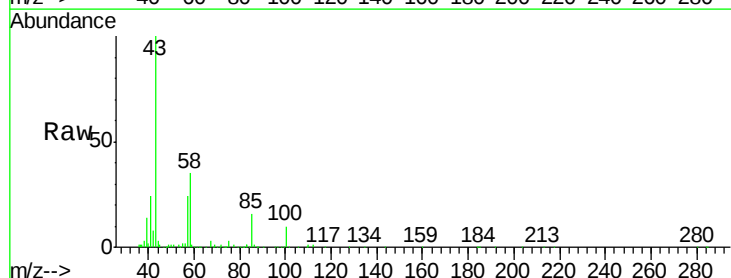
RT: 8.73 min Scan# 1850

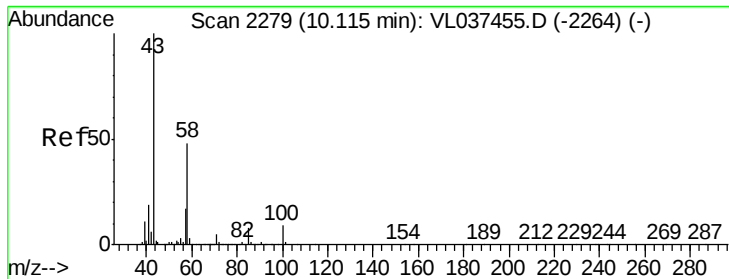
Delta R.T. 0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion:	43	Resp:	513691
Ion Ratio	Lower	Upper	
43	100		
58	39.3	29.9	44.9





#51

2-Hexanone

Concen: 2.135 ppbv m

RT: 10.13 min Scan# 2284

Delta R.T. 0.02 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 240089

Ion Ratio Lower Upper

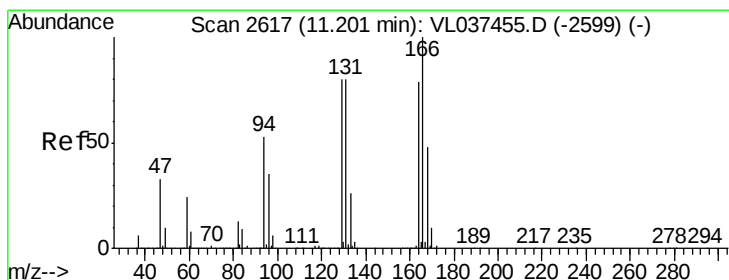
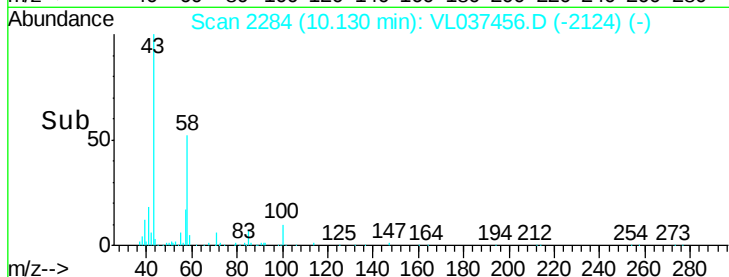
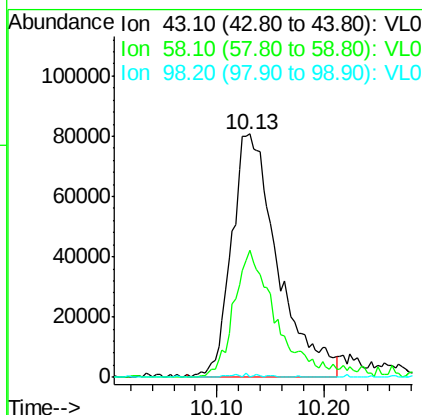
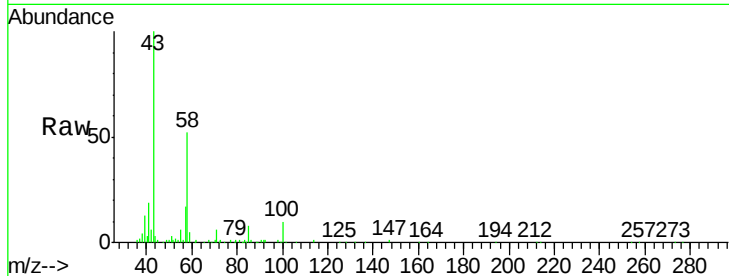
43 100

58 49.6 41.0 61.6

98 0.3 0.3 0.5#

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#52

Tetrachloroethene

Concen: 1.926 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion: 164 Resp: 314867

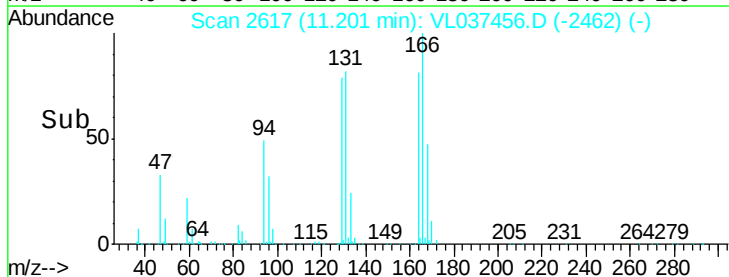
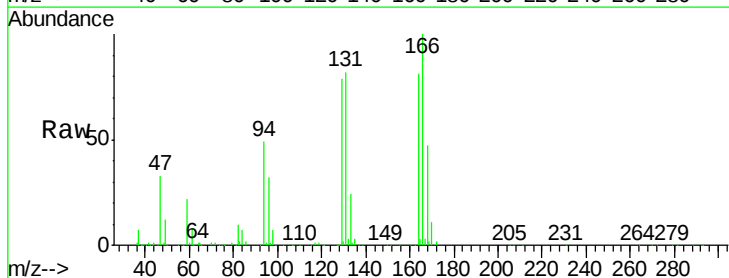
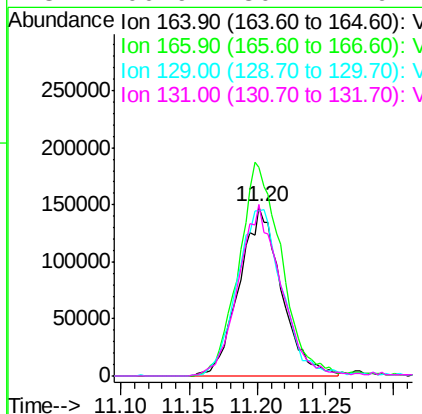
Ion Ratio Lower Upper

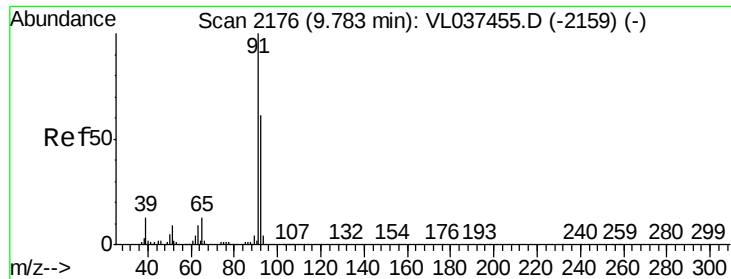
164 100

166 123.3 100.7 151.1

129 97.8 80.9 121.3

131 100.9 80.2 120.4





#53

Toluene

Concen: 2.182 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 966843

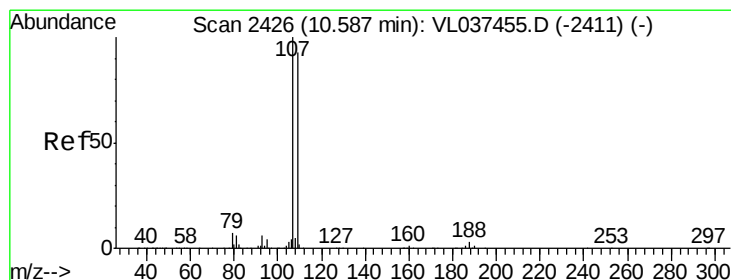
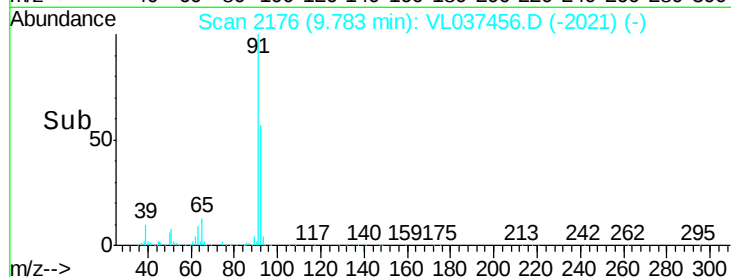
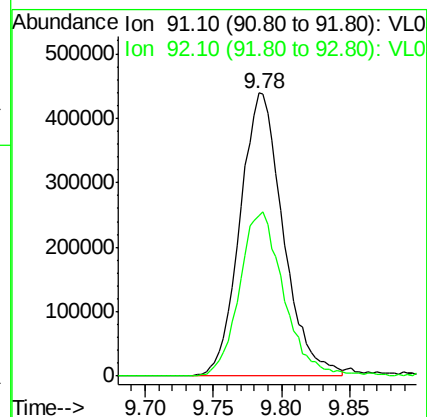
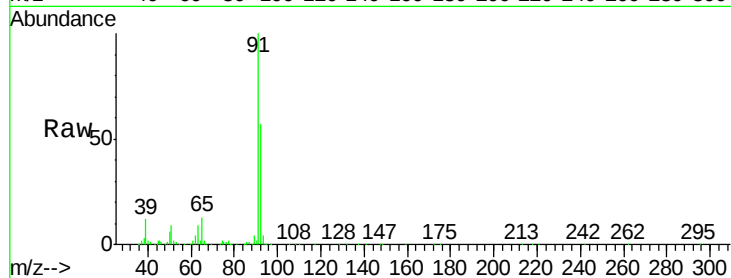
Ion Ratio Lower Upper

91 100

92 59.6 48.8 73.2

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#54

1,2-Dibromoethane

Concen: 2.132 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. -0.00 min

Lab File: VL037456.D

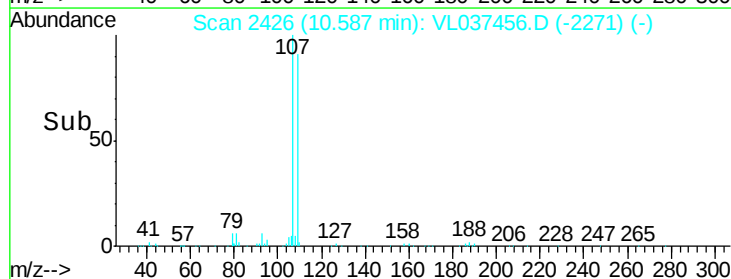
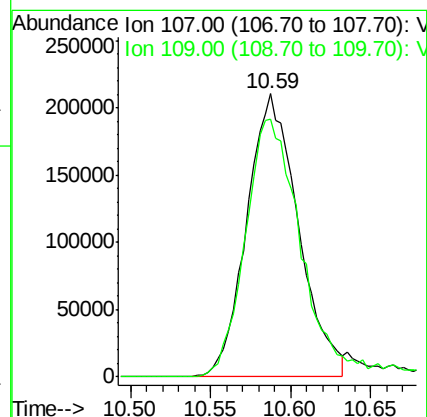
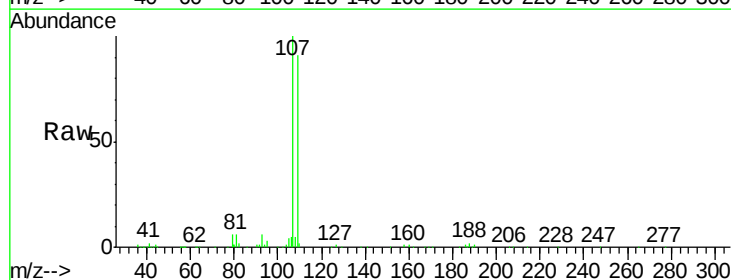
Acq: 16 Aug 2021 11:07

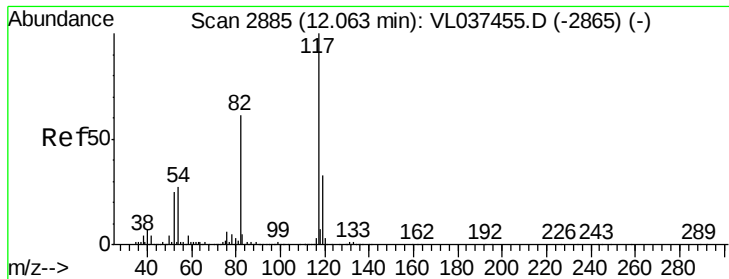
Tgt Ion: 107 Resp: 463790

Ion Ratio Lower Upper

107 100

109 90.8 74.2 111.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:117 Resp: 4247434

Ion Ratio Lower Upper

117 100

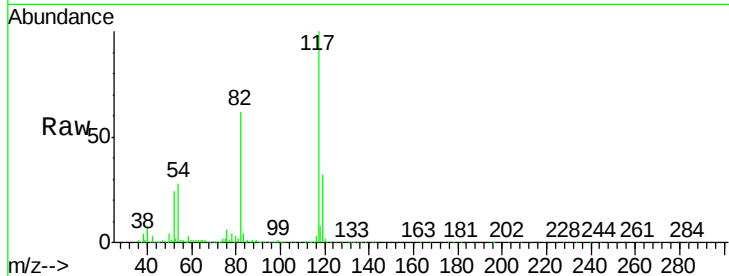
82 60.9 52.9 79.3

119 38.1 24.8 37.2#

Manual Integrations
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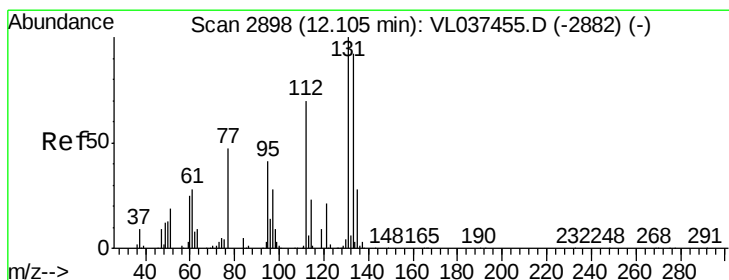
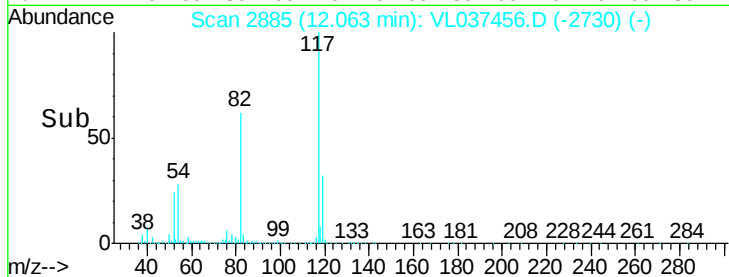
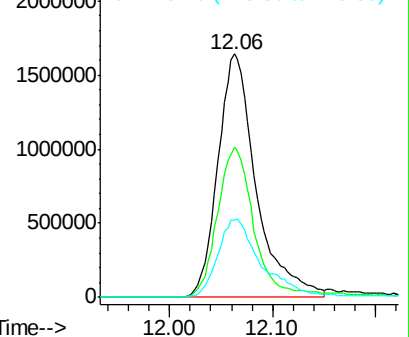
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 2.148 ppbv m

RT: 12.10 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

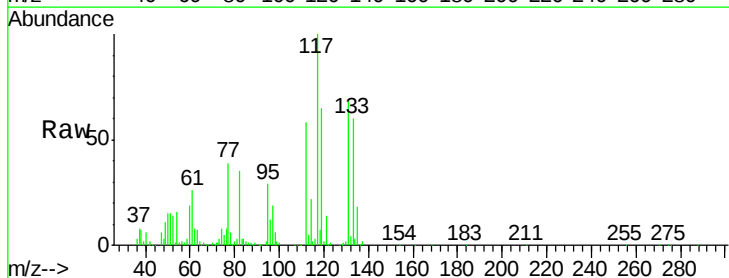
Tgt Ion:131 Resp: 363179

Ion Ratio Lower Upper

131 100

133 100.5 78.7 118.1

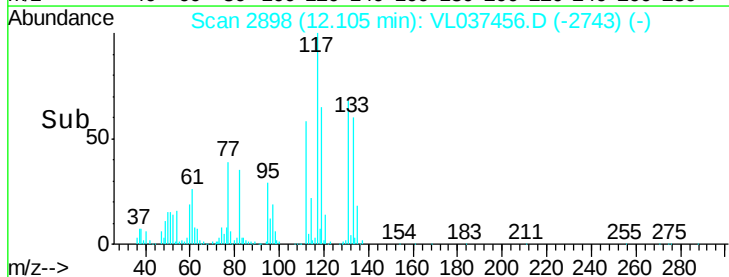
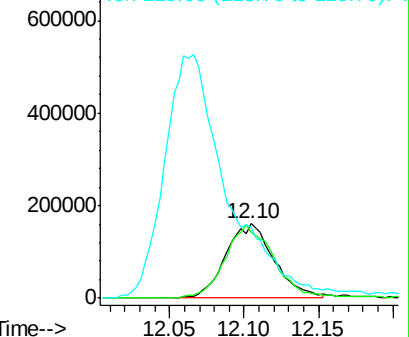
119 0.0 56.6 85.0#

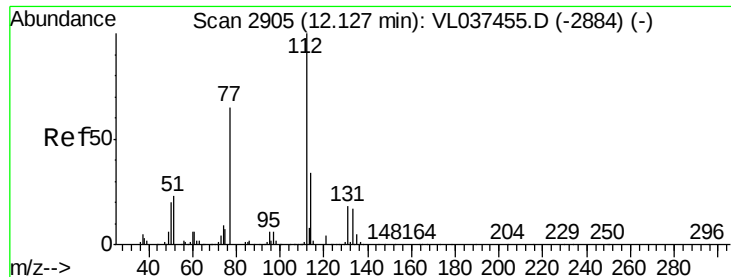


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 2.064 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

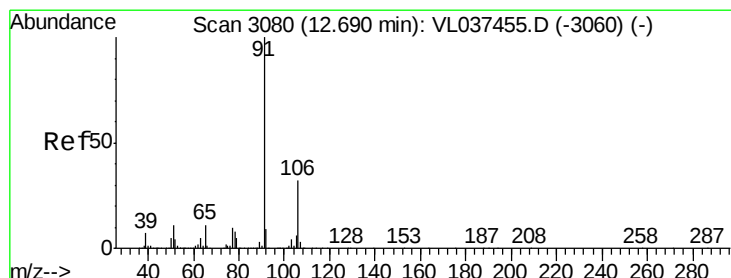
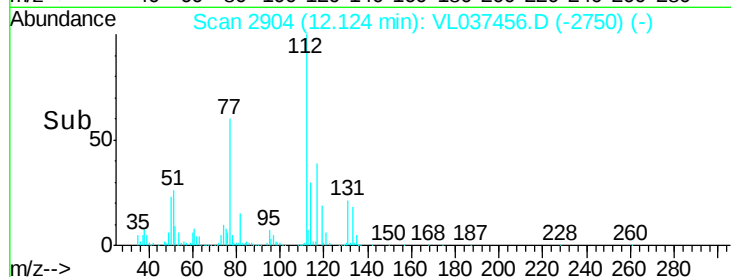
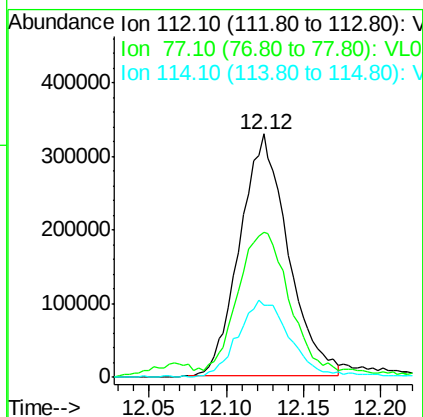
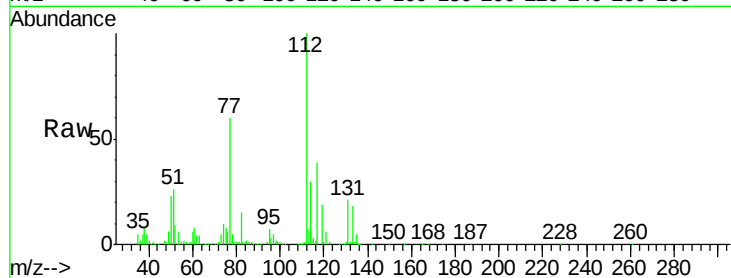
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
112	100		
77	57.6	51.6	77.4
114	29.9	30.7	37.5#

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#58

Ethyl Benzene

Concen: 2.136 ppbv

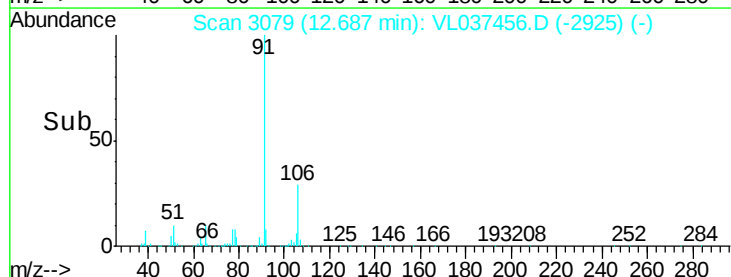
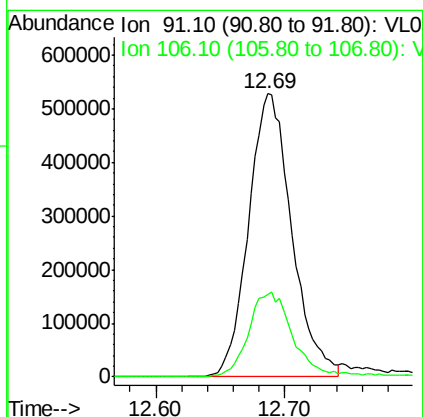
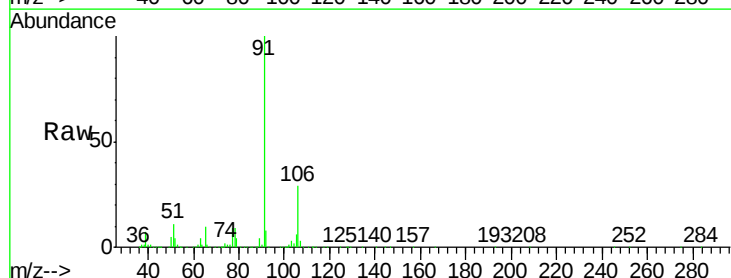
RT: 12.69 min Scan# 3079

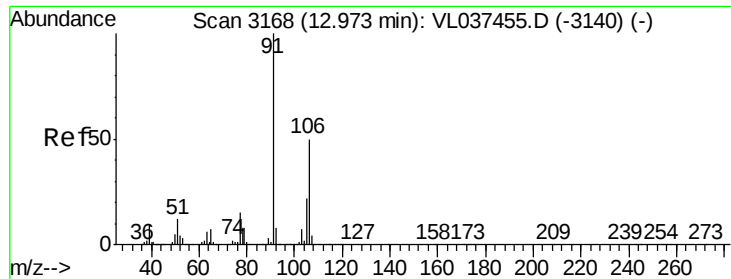
Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	25.7	38.5





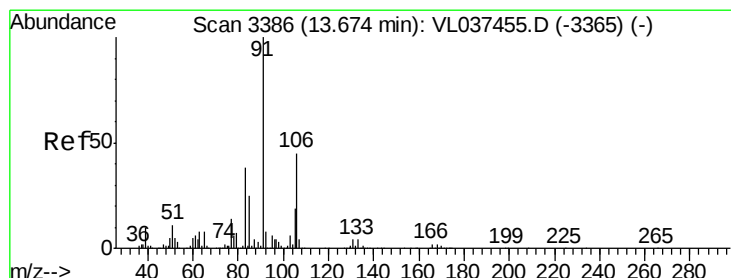
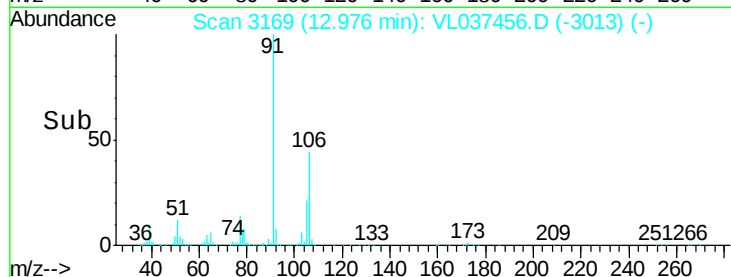
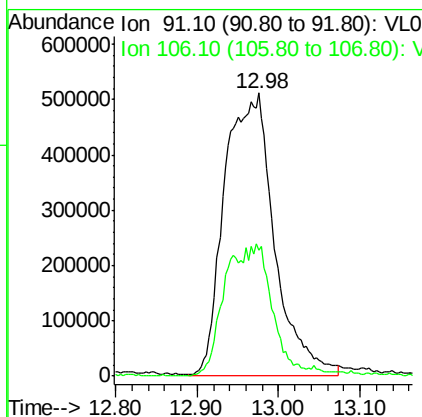
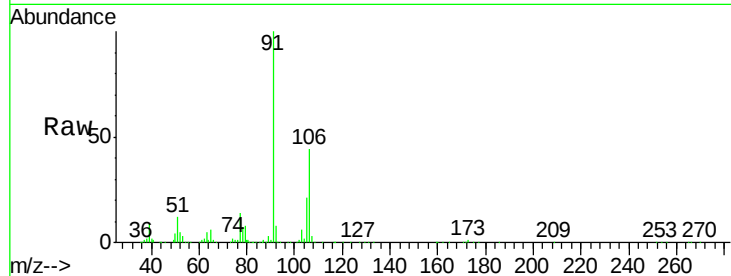
#59
m/p-Xylene
Concen: 4.319 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 2186243
Ion Ratio Lower Upper
91 100
106 45.6 36.9 55.3

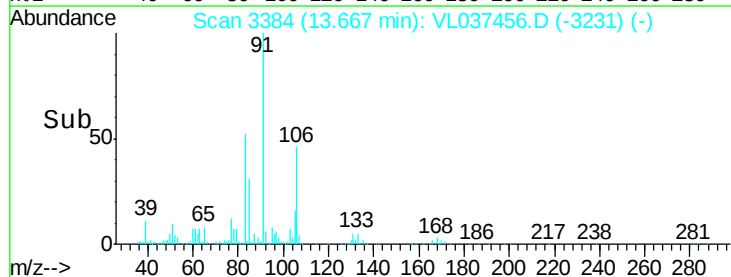
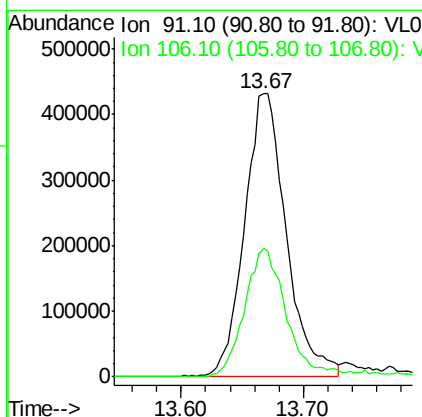
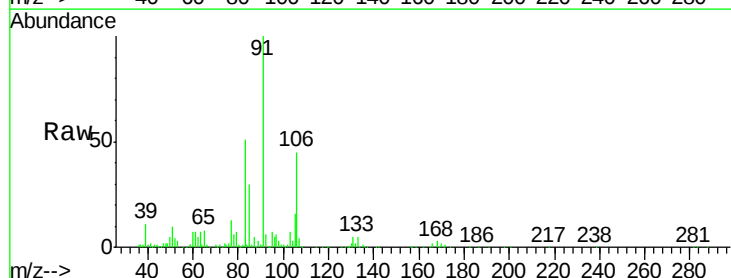
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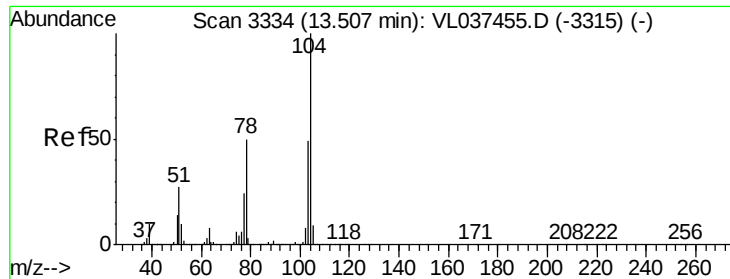
MMDadoda
8/19/2021 5:58:57 PM



#60
o-Xylene
Concen: 2.158 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.01 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion: 91 Resp: 1014457
Ion Ratio Lower Upper
91 100
106 45.7 23.7 71.1





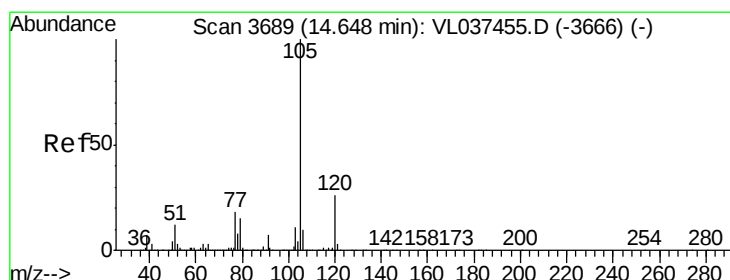
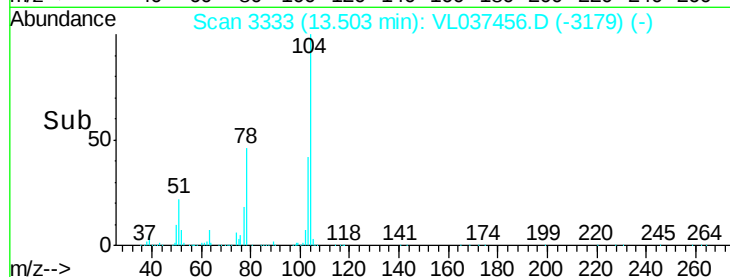
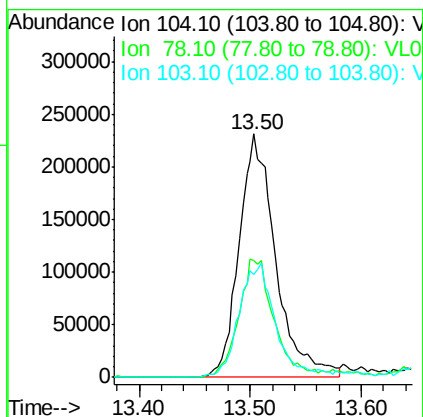
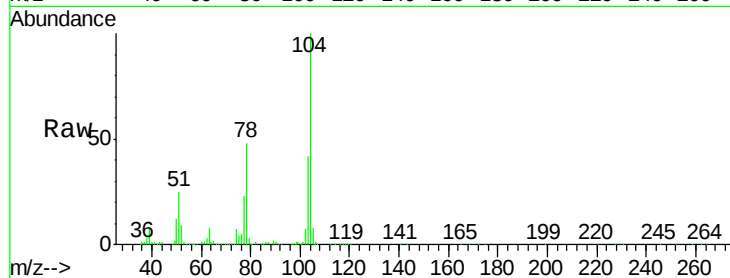
#61
Stvrene
Concen: 2.226 ppbv m
RT: 13.50 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.6	41.3	61.9
103	46.5	39.4	59.0

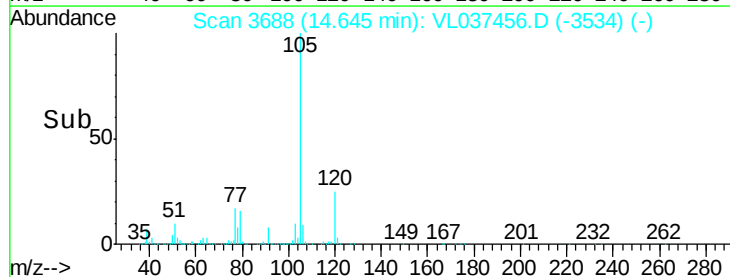
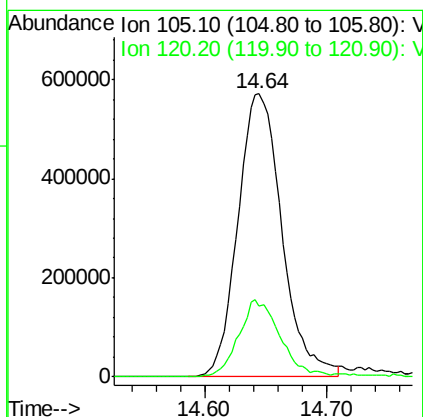
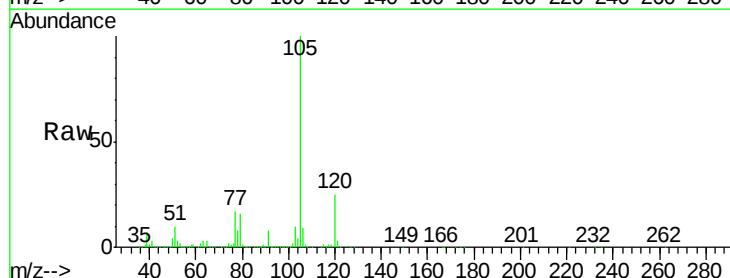
Manual Integrations
APPROVED

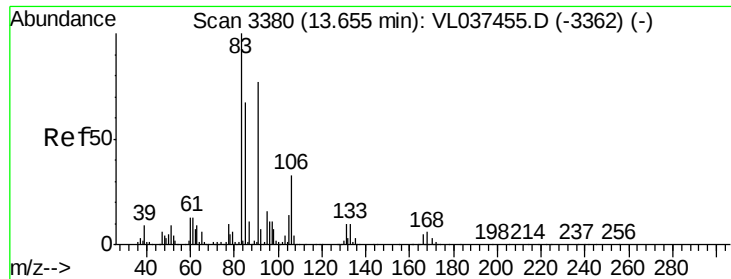
MMDadoda
8/19/2021 5:58:57 PM



#62
Isopropylbenzene
Concen: 2.115 ppbv
RT: 14.64 min Scan# 3688
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	21.5	32.3





#63

1,1,2,2-Tetrachloroethane

Concen: 2.104 ppbv

RT: 13.65 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

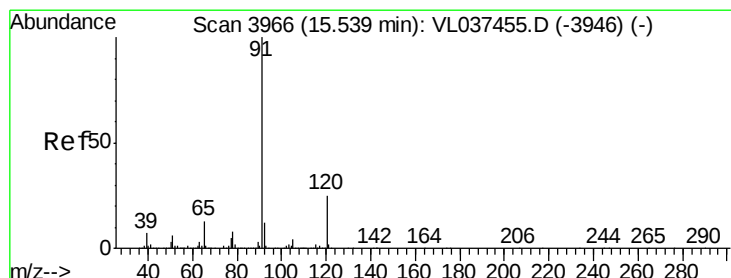
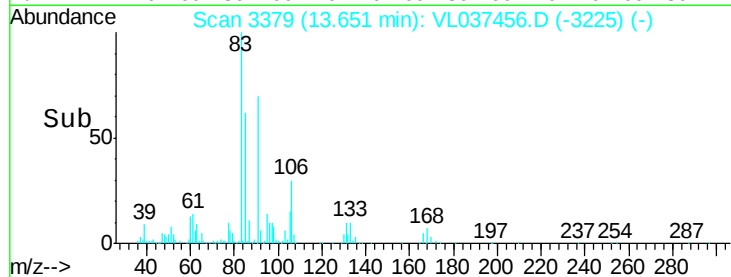
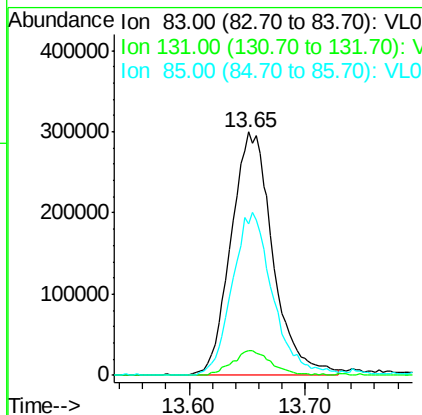
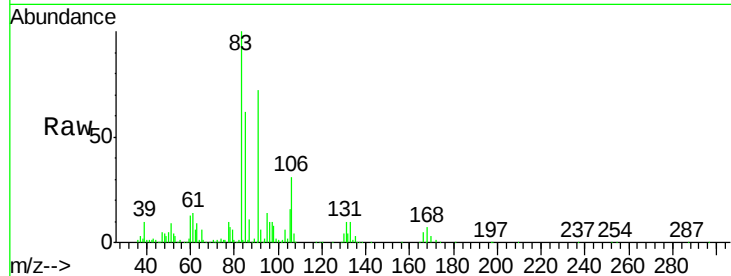
ClientSampleId :

VSTDIC002

Tot Ion:	83	Resp:	746103
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	15.0
85	66.0	33.8	101.3

Manual Integrations
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#64

n-propylbenzene

Concen: 2.129 ppbv

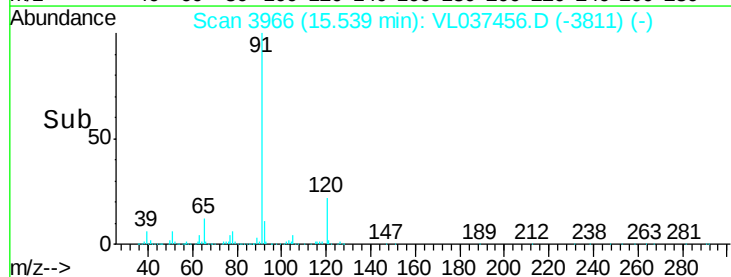
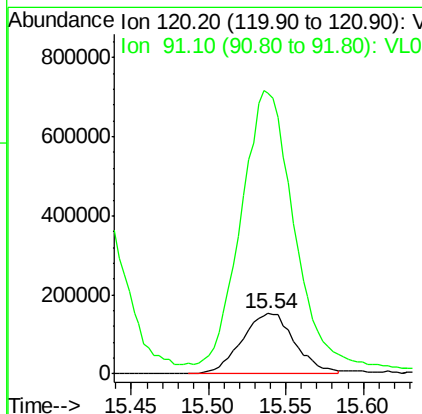
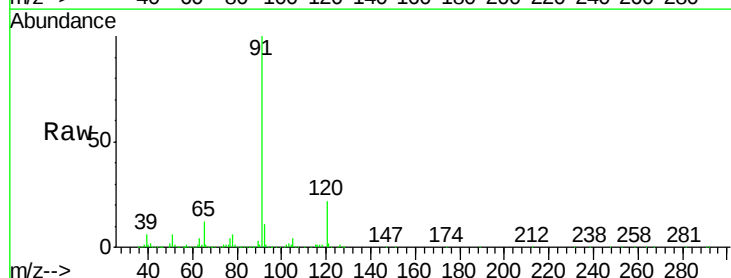
RT: 15.54 min Scan# 3966

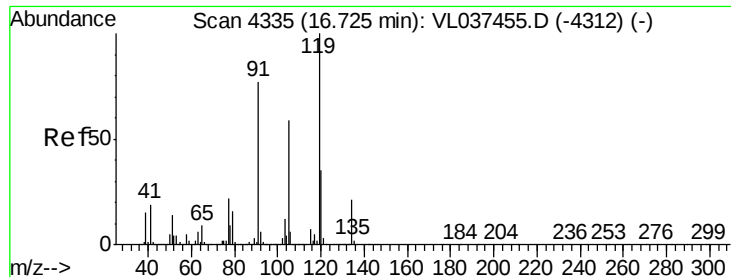
Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion:	120	Resp:	360250
Ion Ratio	Lower	Upper	
120	100		
91	503.8	373.8	560.6





#65

tert-Butylbenzene

Concen: 2.193 ppbv

RT: 16.72 min Scan# 4335

Delta R.T. -0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

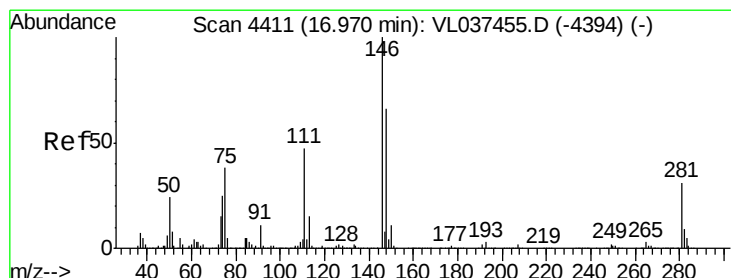
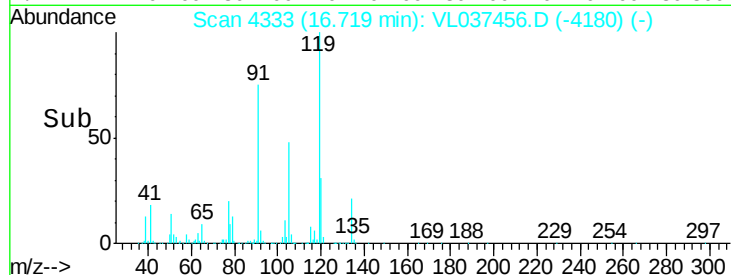
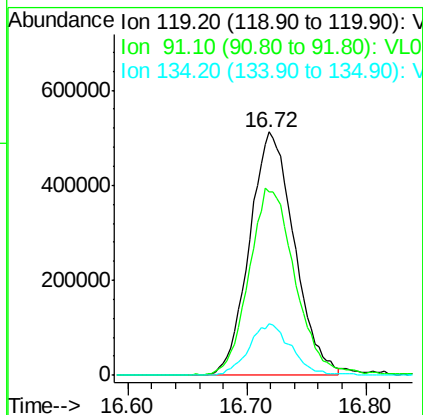
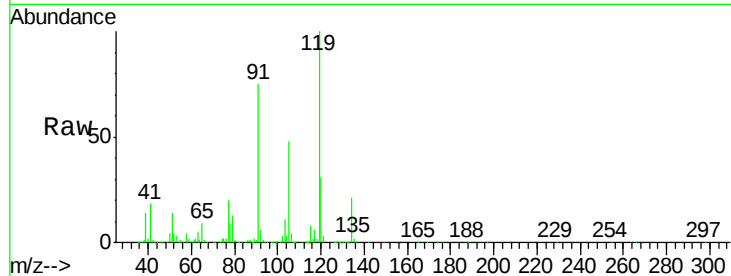
ClientSampleId :

VSTDIC002

Tot Ion:	119	Resp:	1329839
Ion	Ratio	Lower	Upper
119	100		
91	79.7	62.9	94.3
134	20.4	16.4	24.6

Manual Integrations
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#66

Benzyl Chloride

Concen: 1.838 ppbv m

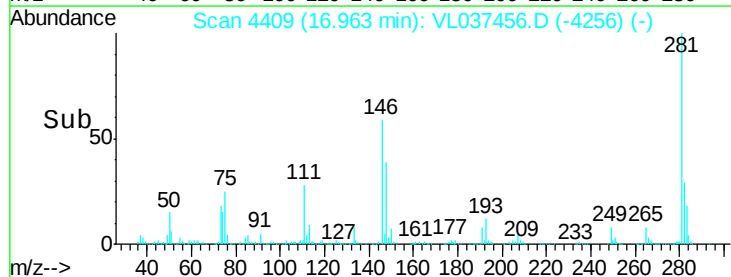
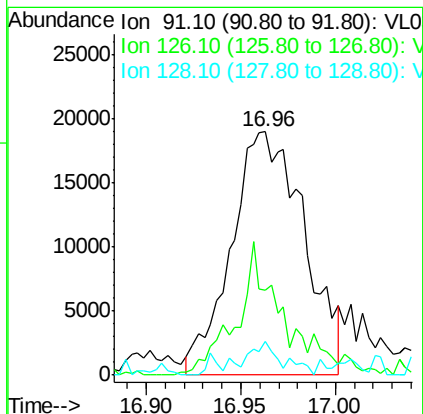
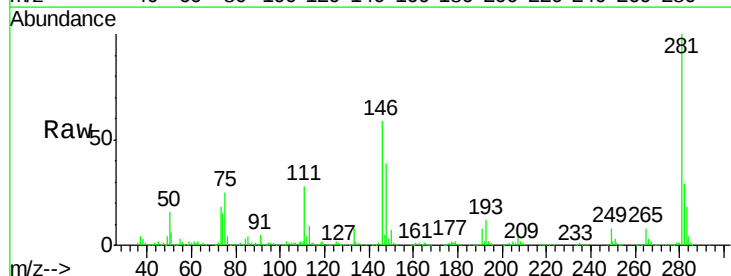
RT: 16.96 min Scan# 4409

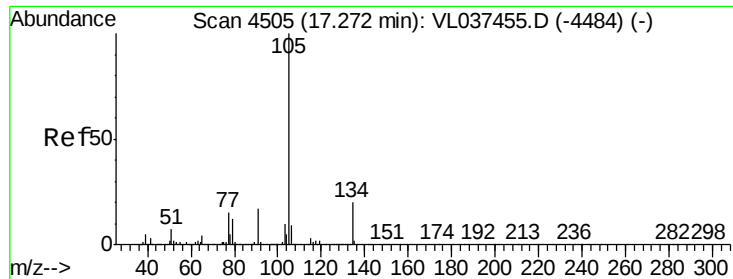
Delta R.T. -0.01 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion:	91	Resp:	50999
Ion	Ratio	Lower	Upper
91	100		
126	36.8	15.9	23.9#
128	8.3	5.4	8.0#





#67

sec-Butylbenzene

Concen: 2.254 ppbv

RT: 17.27 min Scan# 4504

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1859703

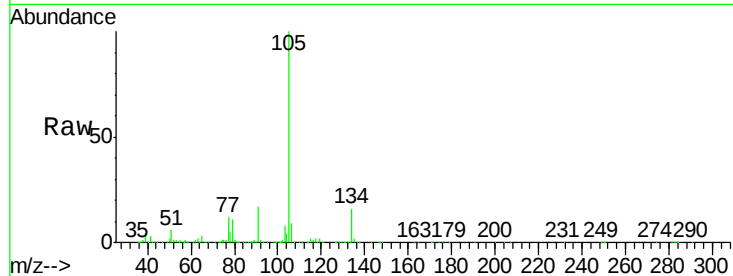
Ion Ratio Lower Upper

105 100

134 18.6 15.2 22.8

Manual Integrations
APPROVED

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.27

800000

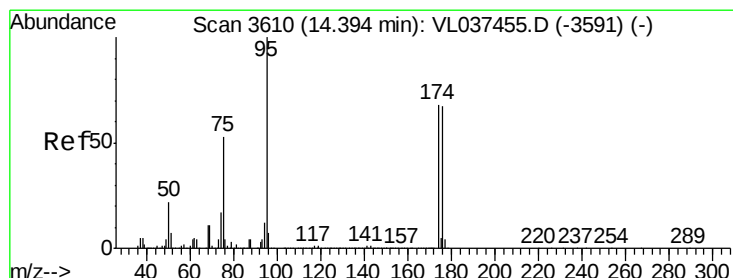
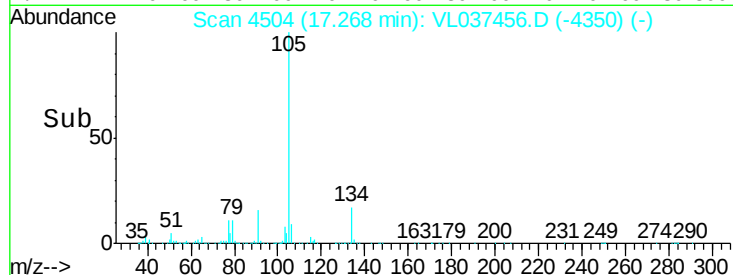
600000

400000

200000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.298 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

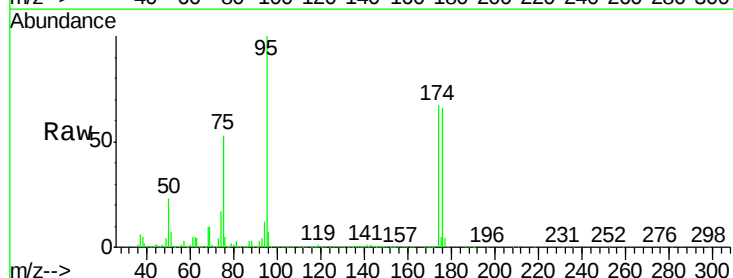
Tgt Ion: 95 Resp: 2832993

Ion Ratio Lower Upper

95 100

174 77.0 59.6 89.4

175 5.7 4.6 7.0



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

14.39

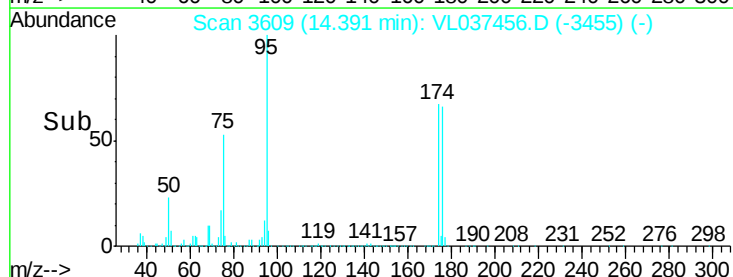
1500000

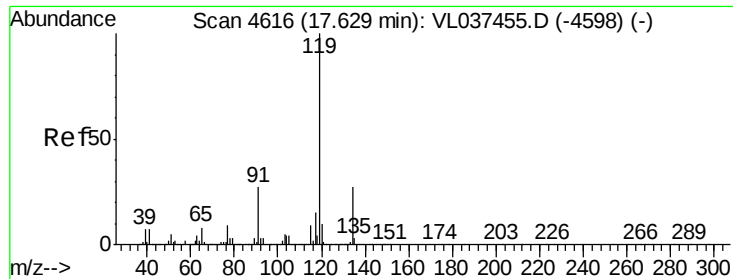
1000000

500000

0

Time-->





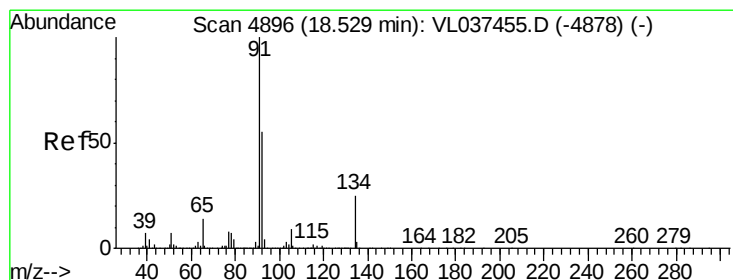
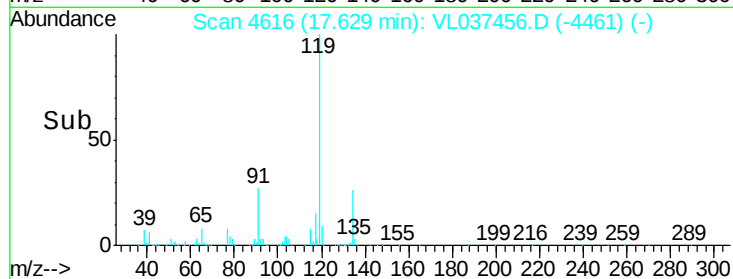
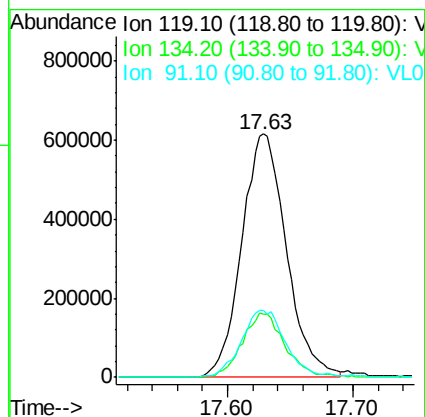
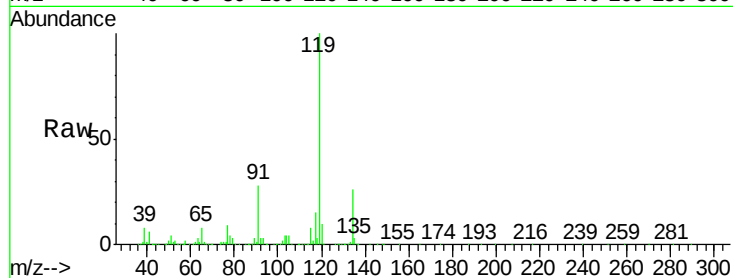
#69
 p-Isopropyltoluene
 Concen: 2.243 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	21.1	31.7
91	27.7	22.4	33.6

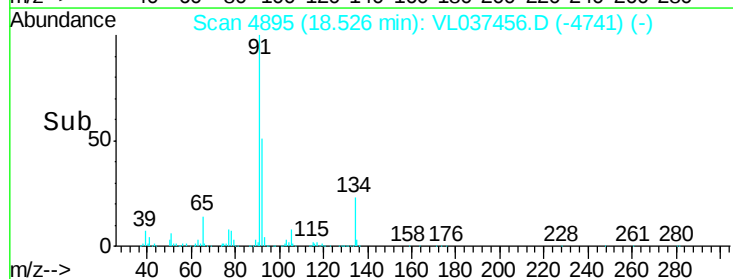
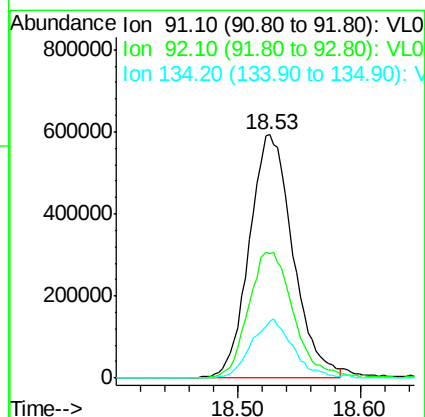
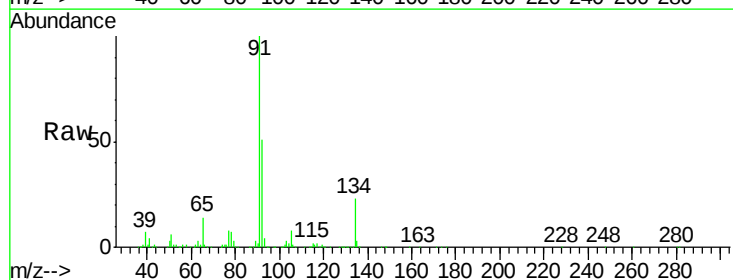
Manual Integrations
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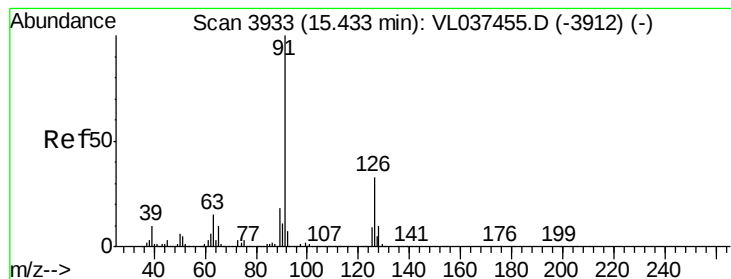
MMDadoda
 8/19/2021 5:58:57 PM



#70
 n-Butylbenzene
 Concen: 2.323 ppbv
 RT: 18.53 min Scan# 4895
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	44.0	66.0
134	23.8	19.5	29.3





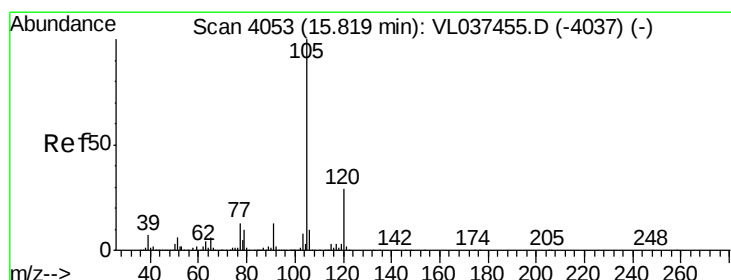
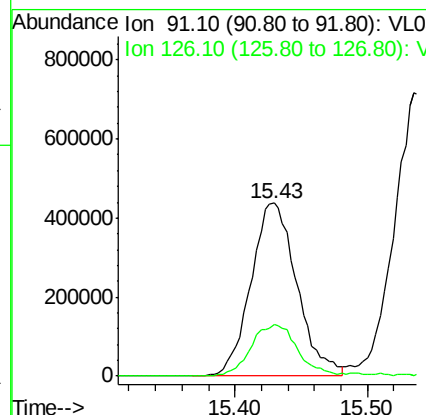
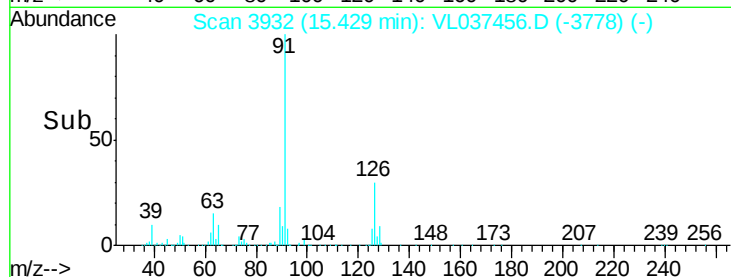
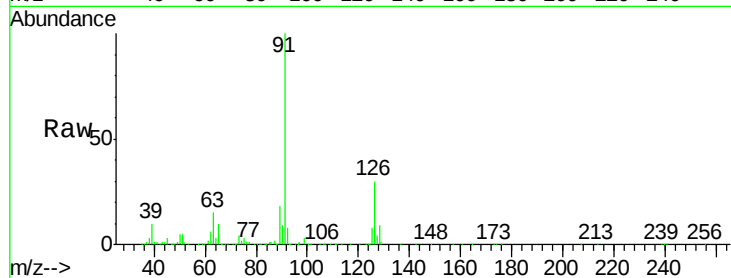
#71
 2-Chlorotoluene
 Concen: 2.215 ppbv
 RT: 15.43 min Scan# 3932
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 91 Resp: 1053623
 Ion Ratio Lower Upper
 91 100
 126 32.6 13.6 54.4

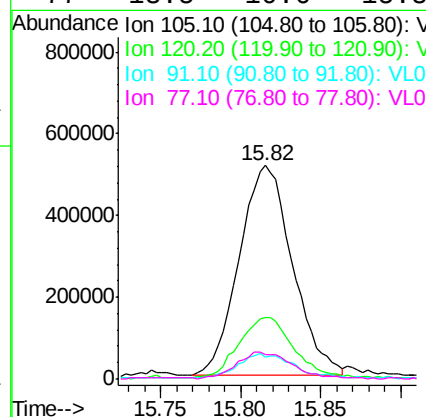
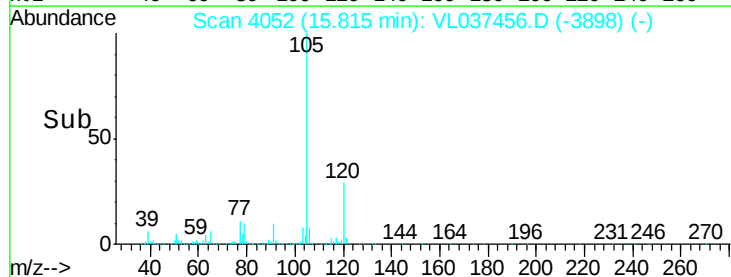
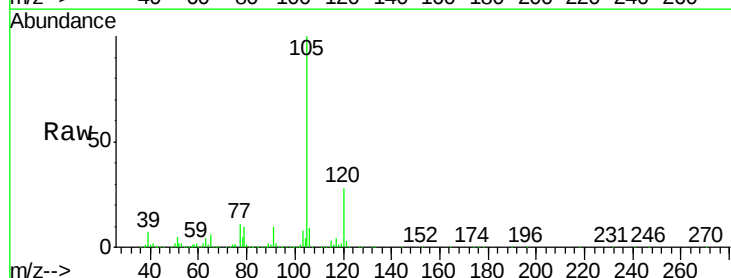
Manual Integrations
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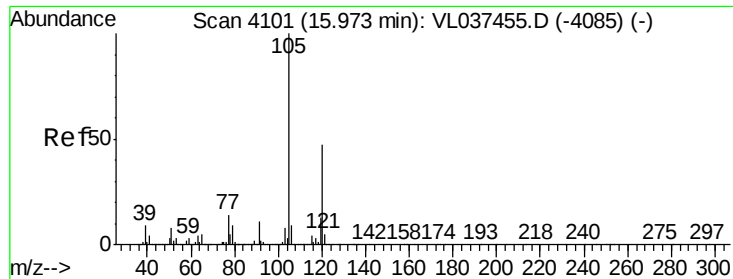
MMDadoda
 8/19/2021 5:58:57 PM



#72
 4-Ethyltoluene
 Concen: 2.147 ppbv
 RT: 15.82 min Scan# 4052
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion: 105 Resp: 1172021
 Ion Ratio Lower Upper
 105 100
 120 32.3 24.7 37.1
 91 12.5 9.8 14.8
 77 13.5 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 2.159 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1114053

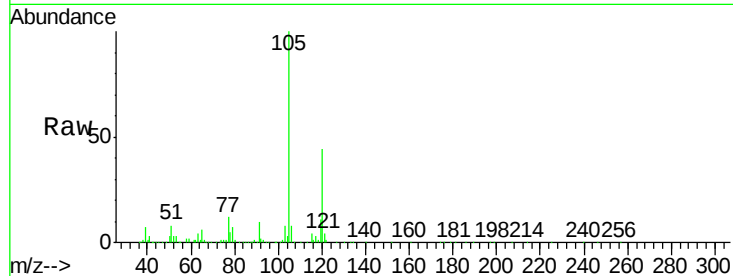
Ion Ratio Lower Upper

105 100

120 43.9 37.6 56.4

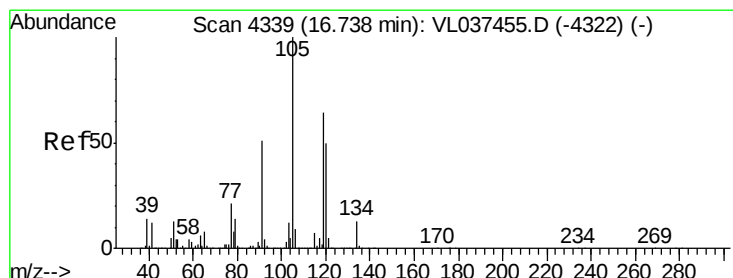
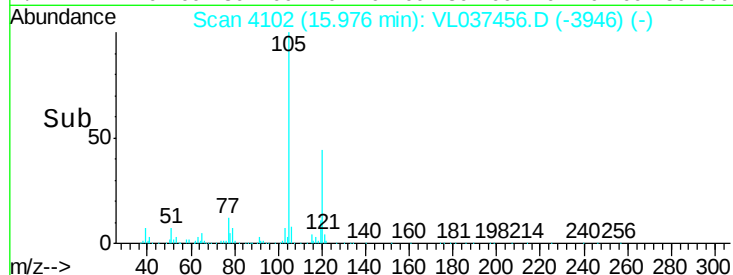
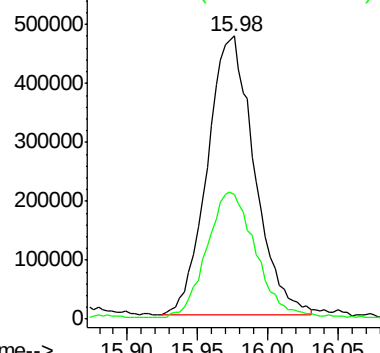
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.320 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion:105 Resp: 1225415

Ion Ratio Lower Upper

105 100

120 49.2 40.4 60.6

91 54.7 44.6 67.0

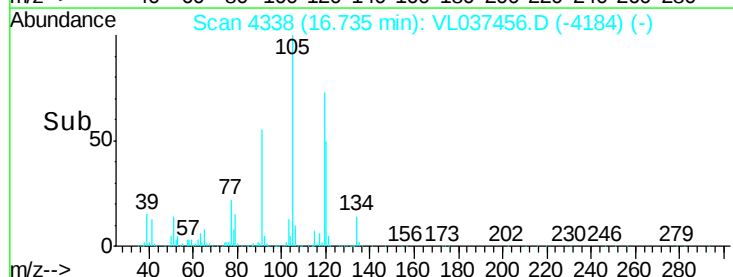
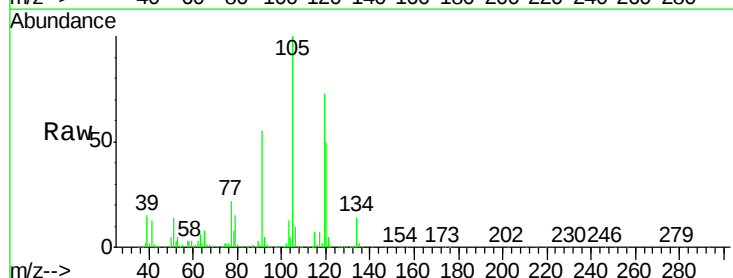
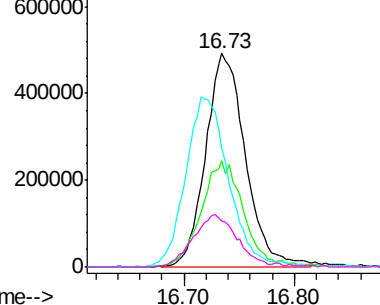
77 21.1 17.8 26.6

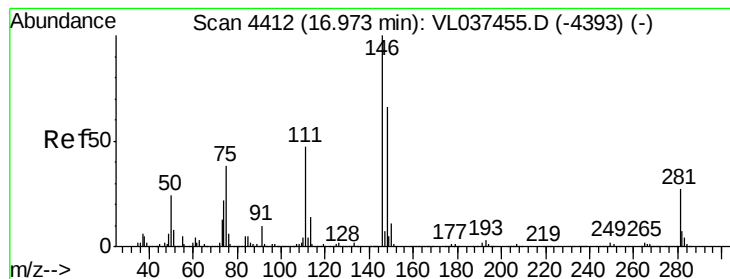
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 2.157 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Instrument :

MSVOA_L

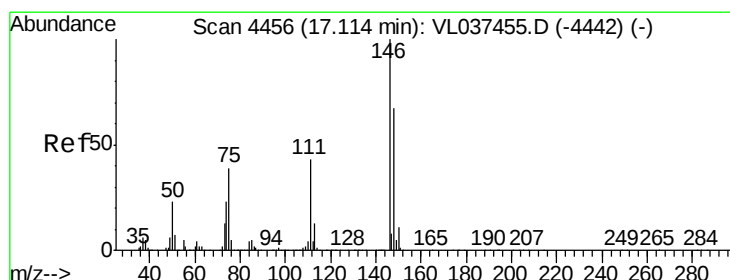
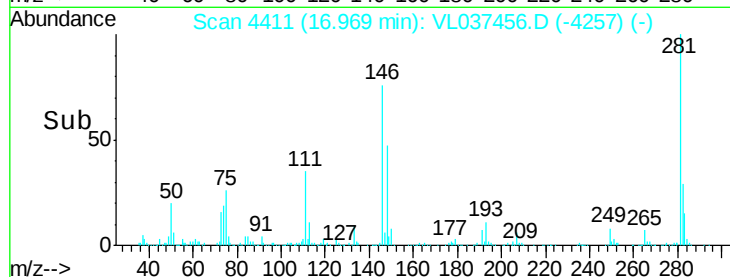
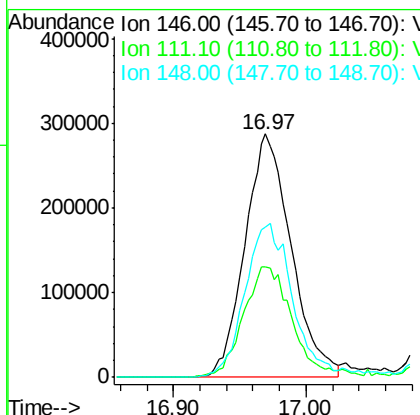
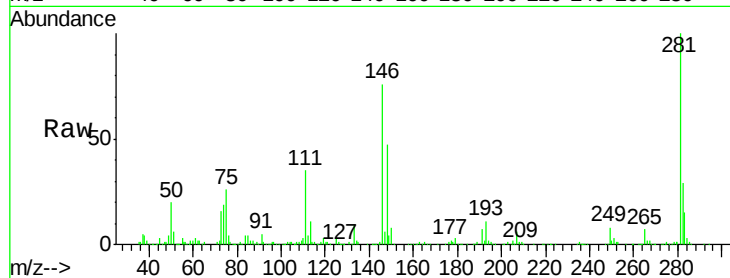
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	697406
Ion Ratio	Lower	Upper	
146	100		
111	48.5	23.4	70.0
148	66.3	33.1	99.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 2.220 ppbv m

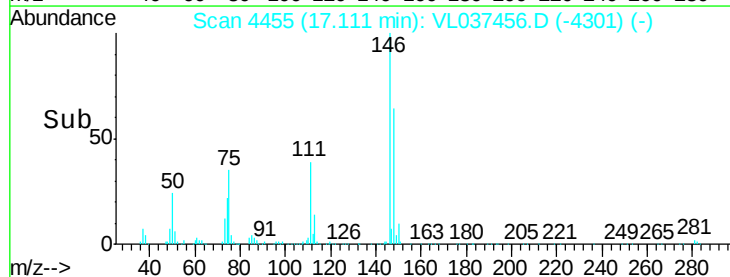
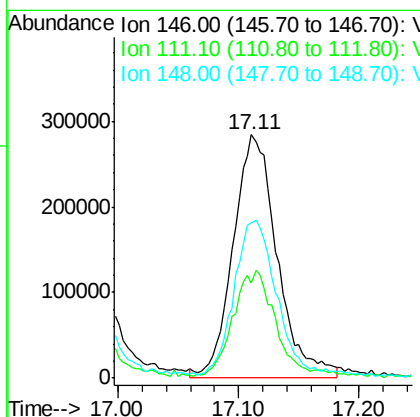
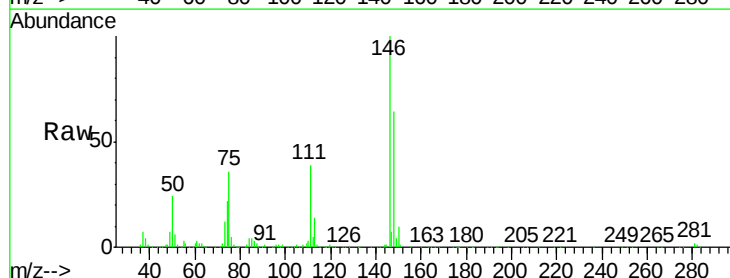
RT: 17.11 min Scan# 4455

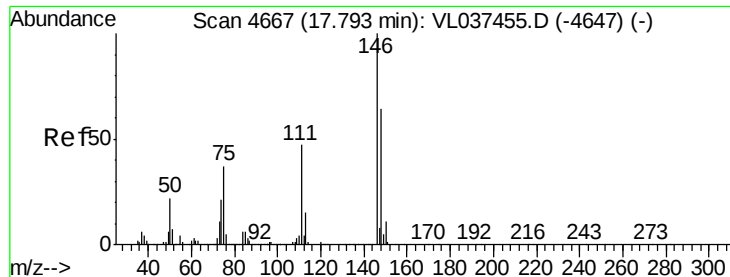
Delta R.T. -0.00 min

Lab File: VL037456.D

Acq: 16 Aug 2021 11:07

Tgt Ion:	146	Resp:	711463
Ion Ratio	Lower	Upper	
146	100		
111	45.2	22.1	66.5
148	65.3	32.4	97.0





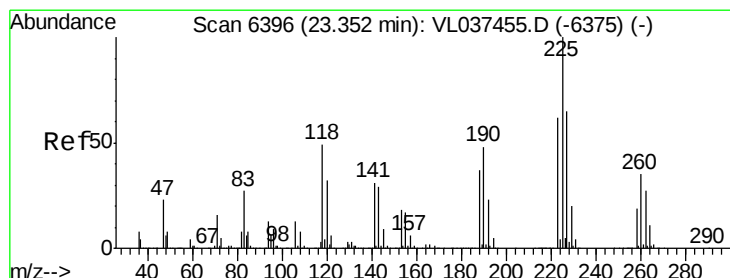
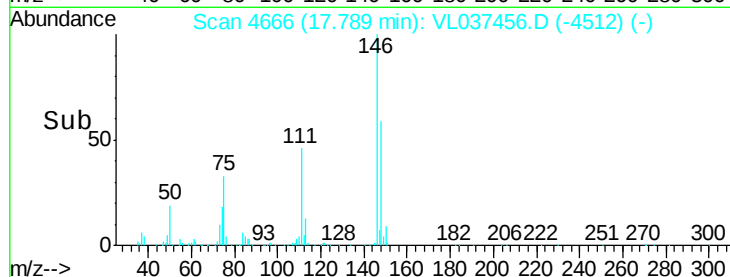
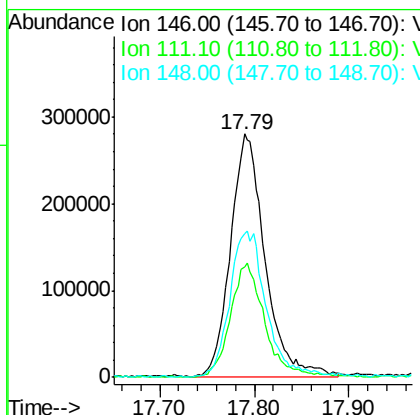
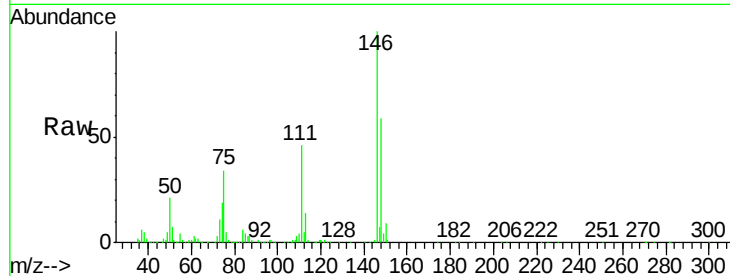
#77
 1,2-Dichlorobenzene
 Concen: 2.295 ppbv
 RT: 17.79 min Scan# 4666
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.4	70.3
148	63.7	32.5	97.5

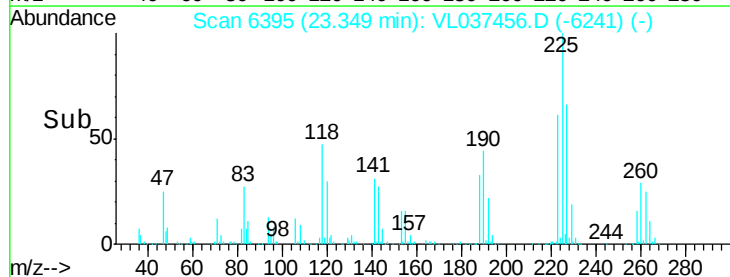
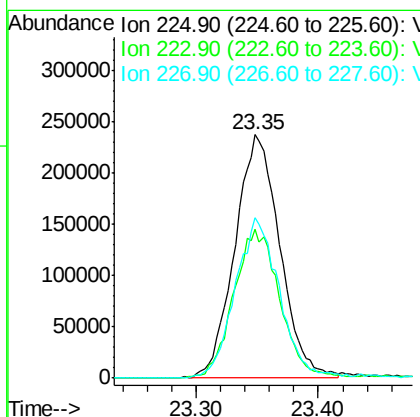
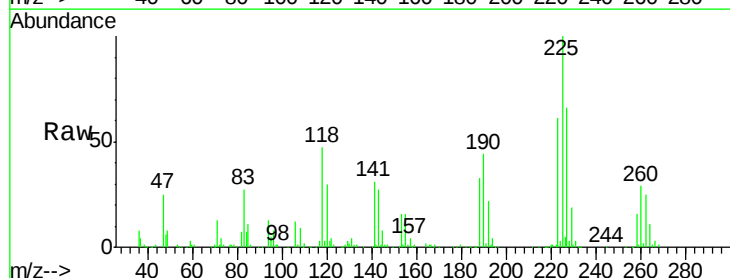
Manual Integrations
 APPROVED

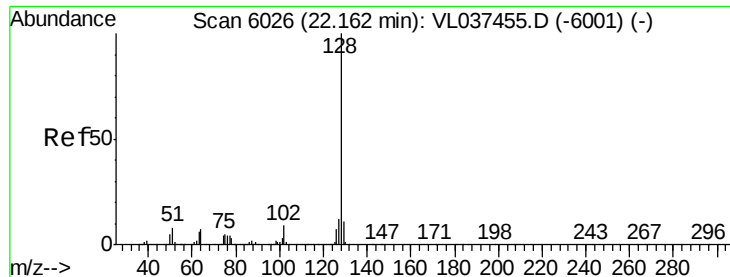
MMDadoda
 8/19/2021 5:58:57 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.409 ppbv
 RT: 23.35 min Scan# 6395
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.4	77.0
227	64.7	52.9	79.3





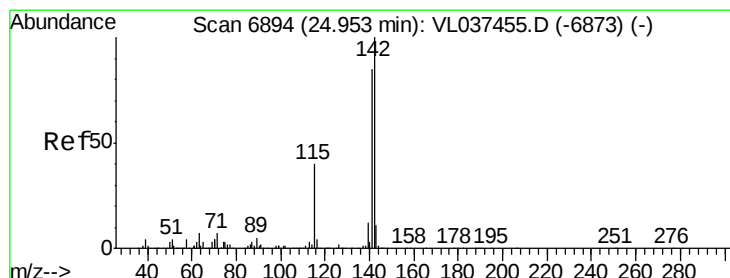
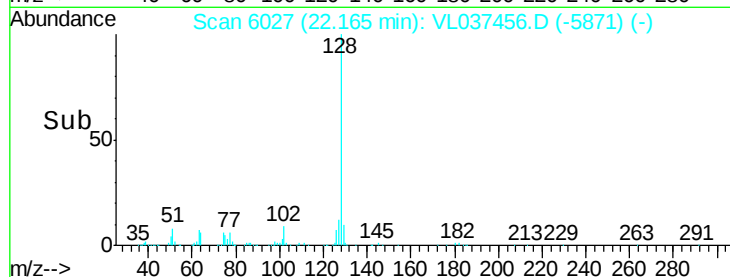
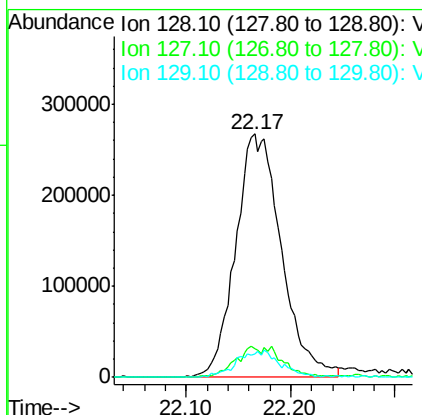
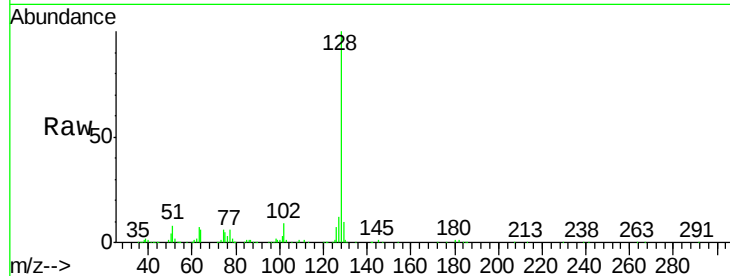
#79
Naphthalene
Concen: 2.837 ppbv m
RT: 22.17 min Scan# 6027
Delta R.T. 0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
128	100	814482		
127	11.5		9.4	14.2
129	9.7		8.8	13.2

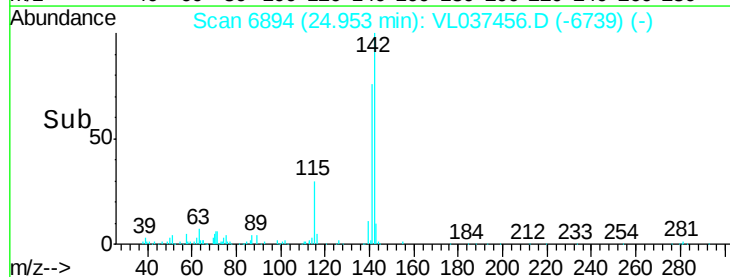
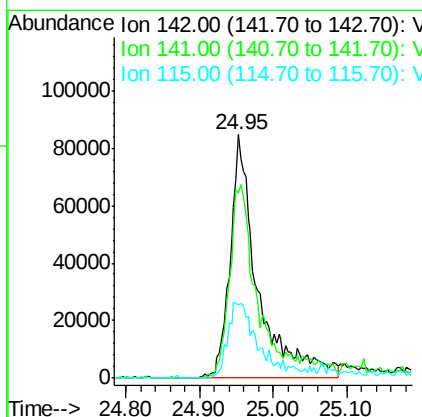
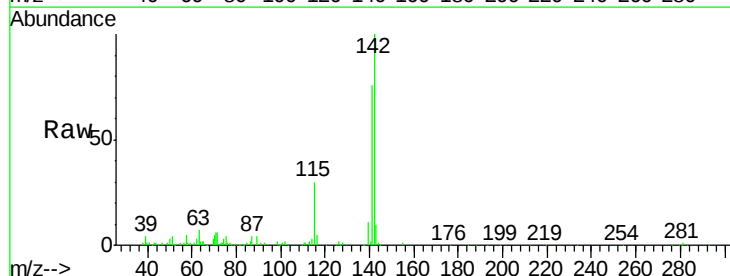
Manual Integrations
APPROVED

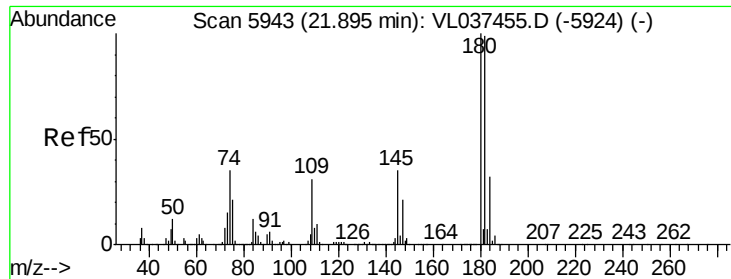
MMDadoda
8/19/2021 5:58:57 PM



#80
Naphthalene, 2-methyl-
Concen: 3.638 ppbv
RT: 24.95 min Scan# 6894
Delta R.T. -0.00 min
Lab File: VL037456.D
Acq: 16 Aug 2021 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	220629		
141	85.5		64.7	97.1
115	35.0		28.4	42.6





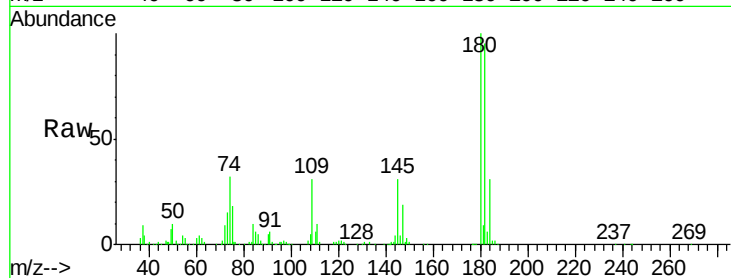
#81
 1,2,4-Trichlorobenzene
 Concen: 2.602 ppbv
 RT: 21.90 min Scan# 5943
 Delta R.T. -0.00 min
 Lab File: VL037456.D
 Acq: 16 Aug 2021 11:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	507608		
182	98.1		79.6	119.4
184	30.2		25.4	38.2

Manual Integrations
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 8/19/2021 5:58:57 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

