

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037170.D
 Acq On : 16 Jun 2021 13:14
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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 6/17/2021 5:37:26 PM

Quant Time: Jun 16 14:04:59 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:04:59 2021
 QLast Update : Wed Jun 16 11:33:05 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1516522	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4512042	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4171051m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3301910	10.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	3033202	12.558	ppbv	97
3) Chlorodifluoromethane	2.99	51	3864069	13.583	ppbv	98
4) Chloromethane	3.14	50	1362549	14.056	ppbv	97
5) Vinyl Chloride	3.26	62	1492712	15.917	ppbv	99
6) Bromomethane	3.48	94	923233	15.477	ppbv	97
7) Chloroethane	3.56	64	539216	14.736	ppbv	97
8) Dichlorotetrafluoroethane	3.19	85	3511785	13.609	ppbv	98
9) Propene	3.01	41	1256658	13.392	ppbv	100
10) Heptane	8.13	43	3224112	14.412	ppbv	100
11) Trichlorofluoromethane	3.95	101	3881493	14.164	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2743188	14.592	ppbv	100
13) Ethanol	3.62	45	153647	11.850	ppbv	52
14) Bromoethene	3.74	108	1201474	14.770	ppbv	98
15) Acetone	3.85	43	1966114	10.834	ppbv	97
16) 1,3-Butadiene	3.33	39	1414421	14.436	ppbv	100
17) tert-Butyl alcohol	4.30	59	2209666	14.070	ppbv	99
18) 1,1-Dichloroethene	4.29	96	1245098	14.681	ppbv	99
19) Isopropyl Alcohol	3.97	45	1315972	13.215	ppbv	99
20) Methylene Chloride	4.35	84	1043611m	13.196	ppbv	
21) Allyl Chloride	4.42	41	1774298	14.635	ppbv	97
22) trans-1,2-Dichloroethene	4.89	96	1256147	15.202	ppbv	96
23) Vinyl Acetate	5.08	43	3649195	15.313	ppbv	98
24) 1,1-Dichloroethane	5.02	63	2738410	14.319	ppbv	99
25) Ethyl Acetate	5.68	43	5078002	14.281	ppbv	100
26) Hexane	5.69	57	2406122	13.606	ppbv	99
27) Carbon Disulfide	4.56	76	2942840	16.414	ppbv	100
28) Methyl tert-Butyl Ether	5.04	73	3087078	13.938	ppbv	100
29) Chloroform	5.76	83	4032966	14.127	ppbv	99
30) Cyclohexane	7.14	84	2137331	13.863	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	2490543	14.614	ppbv	100
32) 1,1,1-Trichloroethane	6.52	97	4159085	15.866	ppbv	100
34) 2-Butanone	5.25	43	2419428	14.278	ppbv	99
35) Carbon Tetrachloride	7.03	117	4486136	16.174	ppbv	99
36) Benzene	6.90	78	5035235	14.064	ppbv	98
37) 1,2-Dichloroethane	6.32	62	3044960	14.646	ppbv	100
38) Trichloroethene	7.84	130	2206122	14.259	ppbv	99
39) 1,2-Dichloropropane	7.62	63	1941176	14.201	ppbv	98
40) 1,4-Dioxane	7.84	88	480948m	12.565	ppbv	
41) Tetrahydrofuran	6.06	42	1218076	14.770	ppbv	98
42) Bromodichloromethane	7.80	83	4225854	14.753	ppbv	98
43) Methyl Methacrylate	8.02	69	1900309	15.471	ppbv	99

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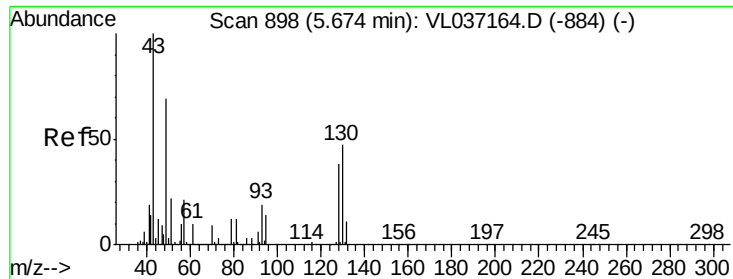
Manual Integrations
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 6/17/2021 5:37:26 PM

Quant Time: Jun 16 14:04:59 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:04:59 2021
 QLast Update : Wed Jun 16 11:33:05 2021
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	8066716	13.461	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	2054134	18.558	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2530302	17.133	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	2169104	13.990	ppbv	98
48) Dibromochloromethane	10.32	129	3886553	15.538	ppbv	99
49) Bromoform	13.05	173	3085640	15.792	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3577572	14.352	ppbv	100
51) 2-Hexanone	10.15	43	1808862	14.538	ppbv #	99
52) Tetrachloroethene	11.23	164	2102171	14.197	ppbv	96
53) Toluene	9.82	91	6020499	14.147	ppbv	98
54) 1,2-Dibromoethane	10.62	107	3262303	14.370	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.14	131	2588133	14.227	ppbv	95
57) Chlorobenzene	12.16	112	4598330	13.758	ppbv	99
58) Ethyl Benzene	12.72	91	7851762	13.897	ppbv	97
59) m/p-Xylene	13.01	91	13143740m	27.375	ppbv	
60) o-Xylene	13.71	91	6283436	13.630	ppbv	99
61) Styrene	13.54	104	3723704	15.322	ppbv	98
62) Isopropylbenzene	14.68	105	8582452	13.061	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.69	83	4111695	13.718	ppbv	99
64) n-propylbenzene	15.58	120	2389583	14.259	ppbv	95
65) tert-Butylbenzene	16.76	119	7648171	12.843	ppbv	99
66) Benzyl Chloride	17.00	91	389938	15.002	ppbv	97
67) sec-Butylbenzene	17.31	105	10082826	12.744	ppbv	98
69) p-Isopropyltoluene	17.66	119	8870702	13.411	ppbv	98
70) n-Butylbenzene	18.56	91	8417479	13.909	ppbv	99
71) 2-Chlorotoluene	15.46	91	6282513	13.404	ppbv	99
72) 4-Ethyltoluene	15.85	105	7464074	13.938	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	6751580	13.293	ppbv	99
74) 1,2,4-Trimethylbenzene	16.78	105	6983335	13.512	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	4314953	13.560	ppbv	98
76) 1,4-Dichlorobenzene	17.15	146	4280012	13.542	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	4143404	13.205	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	3156611	14.192	ppbv	99
79) Naphthalene	22.21	128	7087420	22.784	ppbv	100
80) Naphthalene, 2-methyl-	24.98	142	2338527	31.072	ppbv	96
81) 1,2,4-Trichlorobenzene	21.94	180	3728169	18.841	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1516522

Ion Ratio Lower Upper

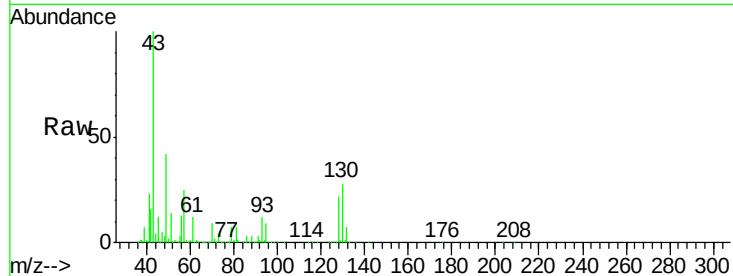
49 100

128 59.5 29.3 88.0

130 72.3 35.9 107.8

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.68

800000

600000

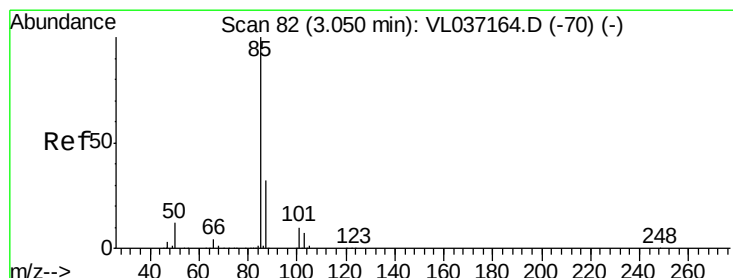
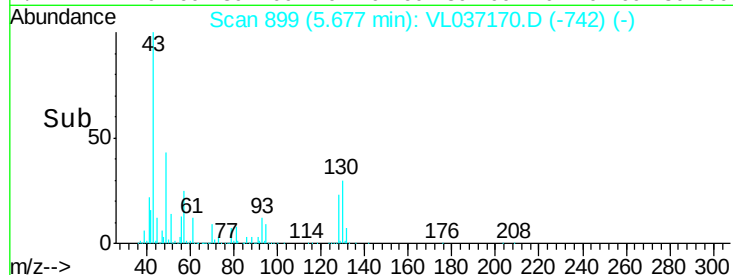
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 12.558 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037170.D

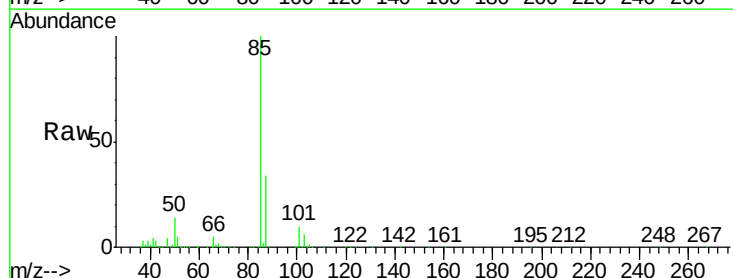
Acq: 16 Jun 2021 13:14

Tgt Ion: 85 Resp: 3033202

Ion Ratio Lower Upper

85 100

87 34.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

2000000

1500000

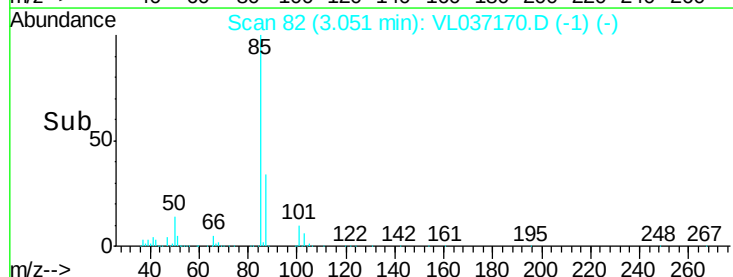
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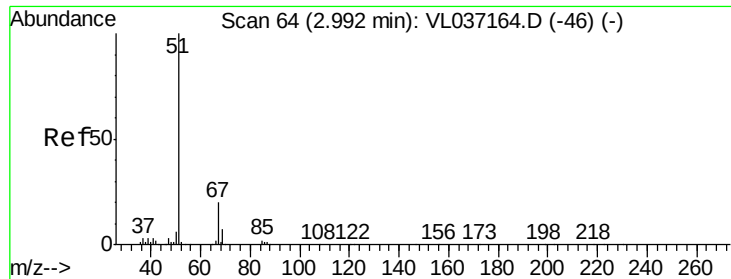
500000

0

3.00 3.10 3.20

Time-->





#3

Chlorodifluoromethane

Concen: 13.583 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 3864069

Ion Ratio Lower Upper

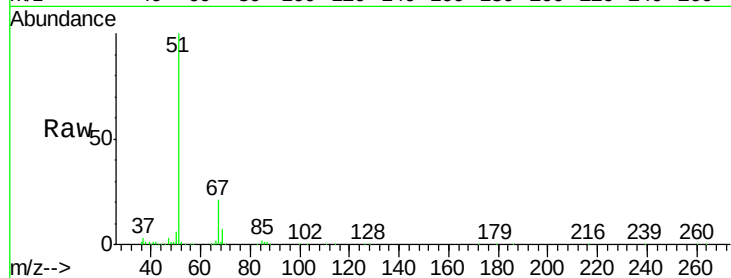
51 100

67 20.4 15.8 23.6

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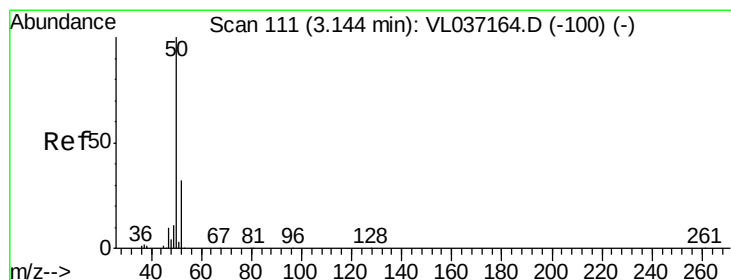
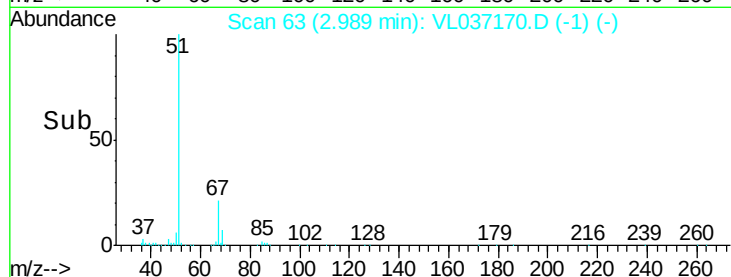
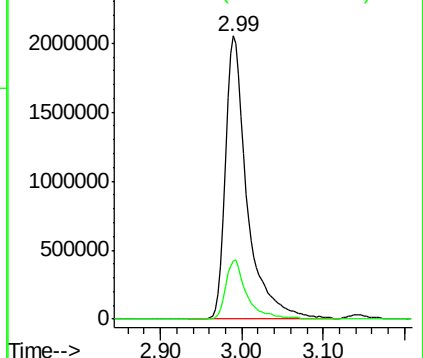
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.056 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL037170.D

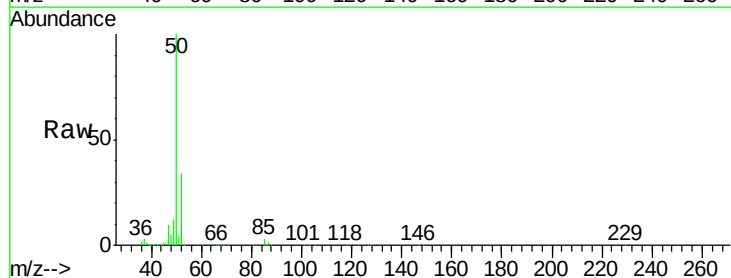
Acq: 16 Jun 2021 13:14

Tgt Ion: 50 Resp: 1362549

Ion Ratio Lower Upper

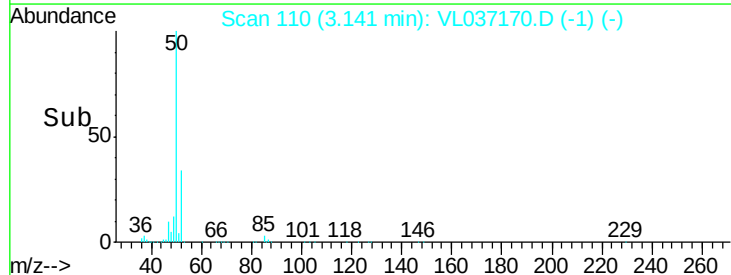
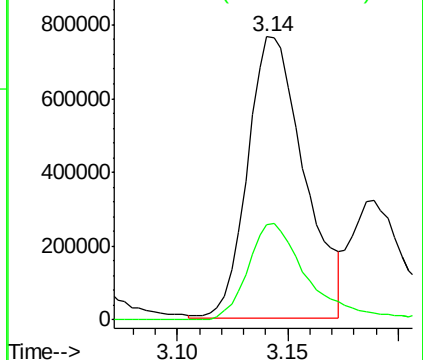
50 100

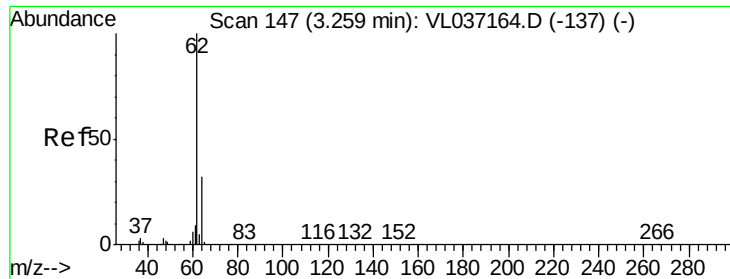
52 34.0 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 15.917 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1492712

Ion Ratio Lower Upper

62 100

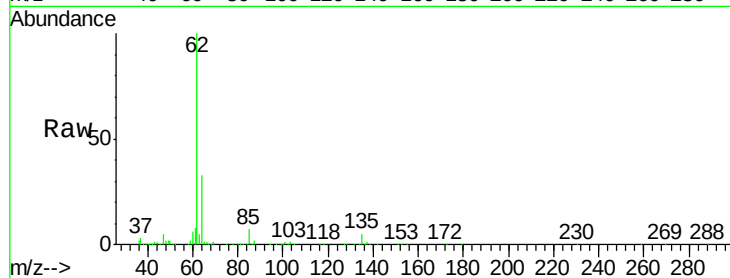
64 32.7 25.6 38.4

Manual Integrations

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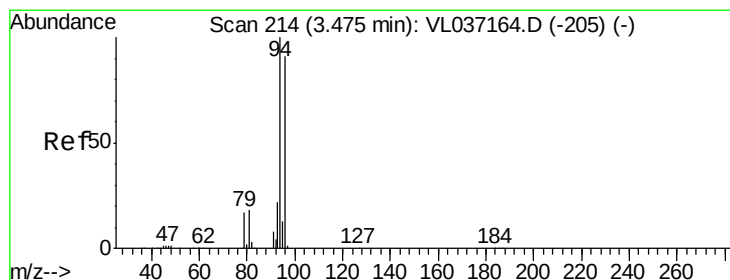
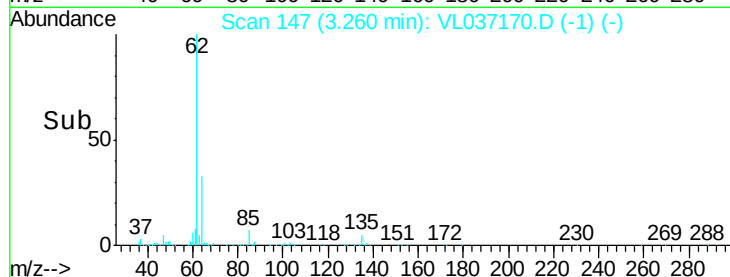
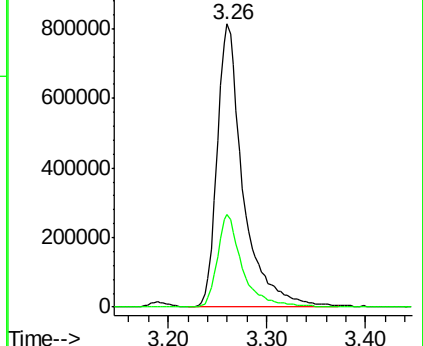
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 15.477 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.00 min

Lab File: VL037170.D

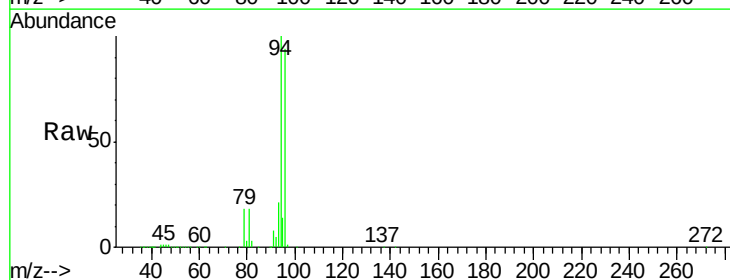
Acq: 16 Jun 2021 13:14

Tgt Ion: 94 Resp: 923233

Ion Ratio Lower Upper

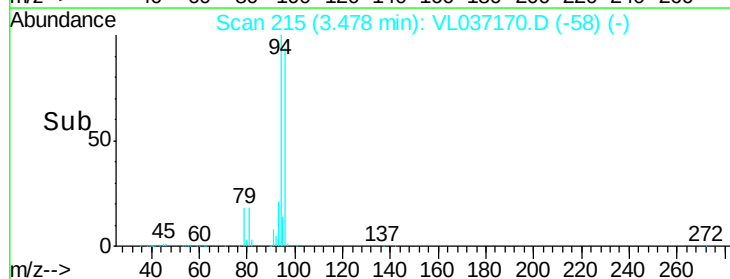
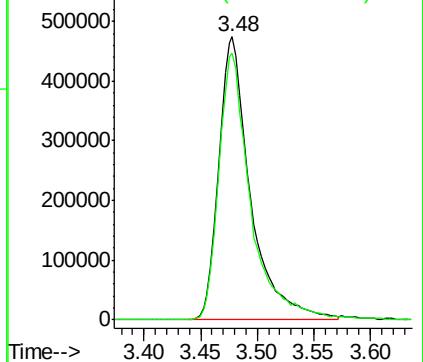
94 100

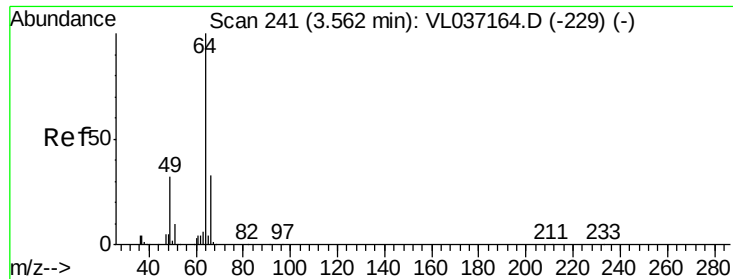
96 93.9 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 14.736 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 539216

Ion Ratio Lower Upper

64 100

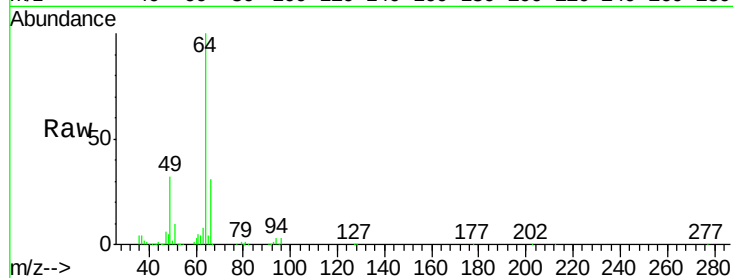
66 31.2 26.2 39.4

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.56

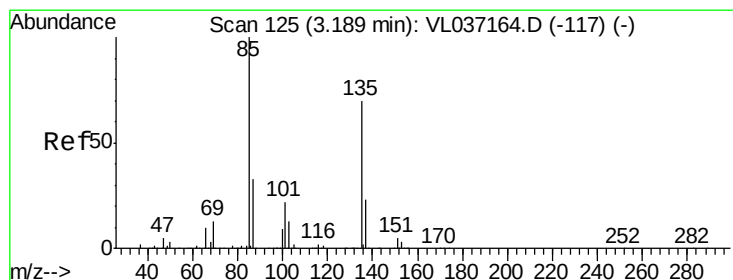
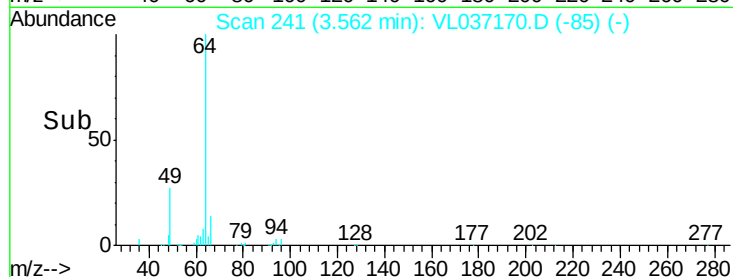
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 13.609 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL037170.D

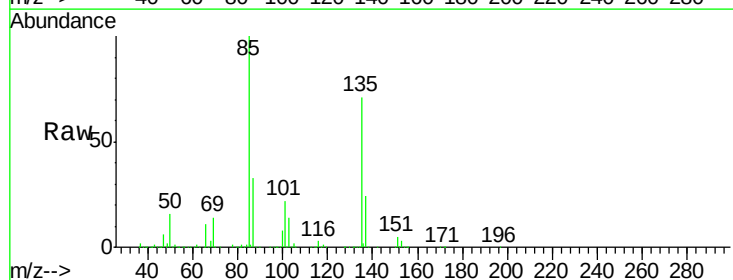
Acq: 16 Jun 2021 13:14

Tgt Ion: 85 Resp: 3511785

Ion Ratio Lower Upper

85 100

135 74.0 60.4 90.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.19

2000000

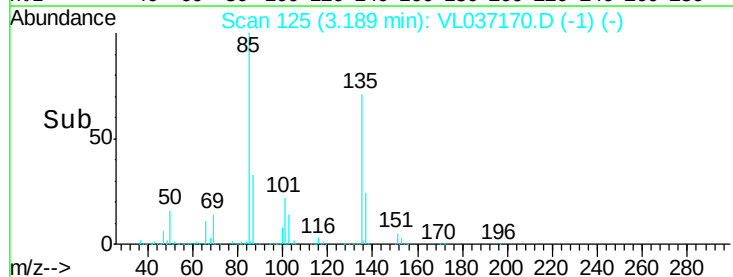
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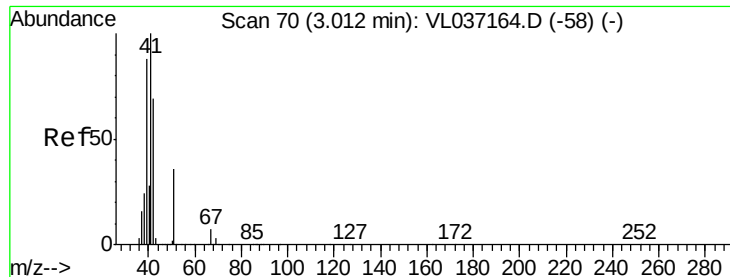
1000000

500000

0

Time-->





#9

Propene

Concen: 13.392 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1256658

Ion Ratio Lower Upper

41 100

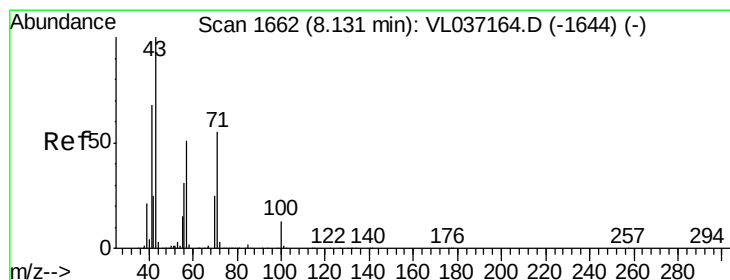
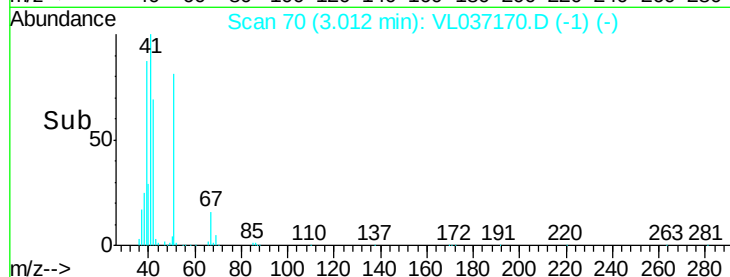
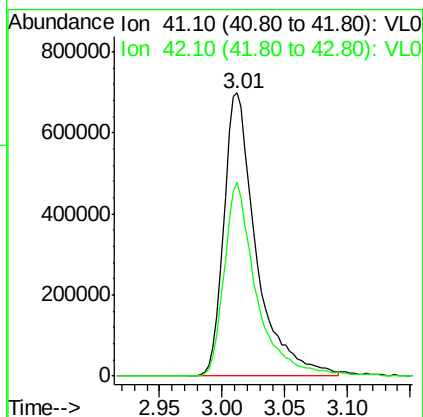
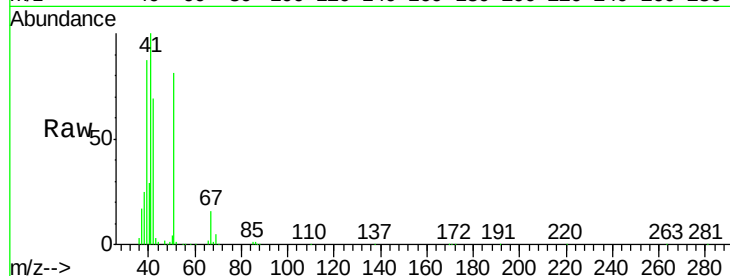
42 68.1 54.5 81.7

Manual Integrations

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#10

Heptane

Concen: 14.412 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.00 min

Lab File: VL037170.D

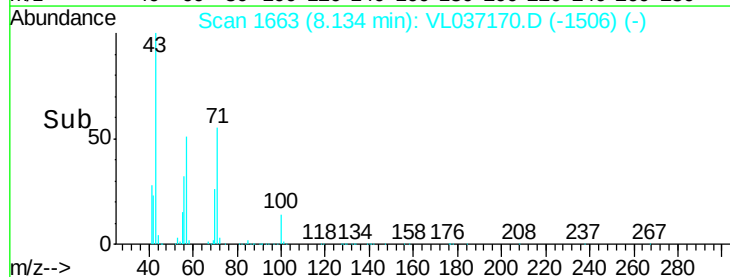
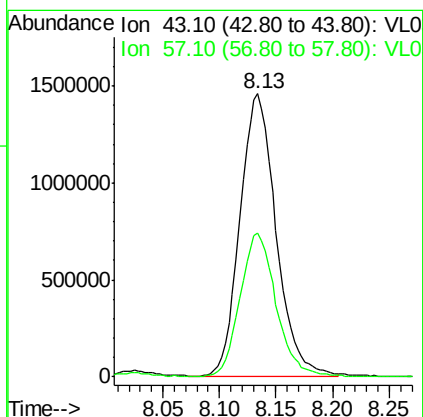
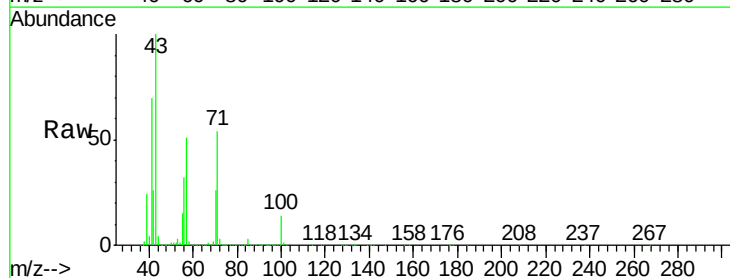
Acq: 16 Jun 2021 13:14

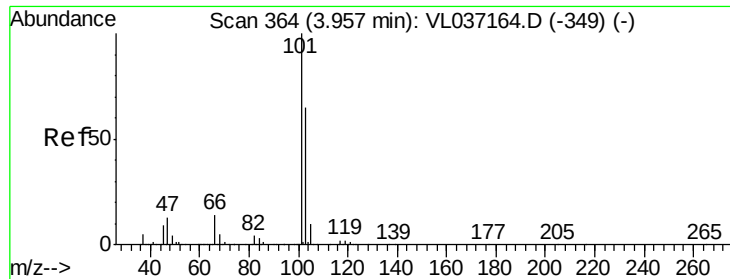
Tgt Ion: 43 Resp: 3224112

Ion Ratio Lower Upper

43 100

57 51.1 40.6 61.0





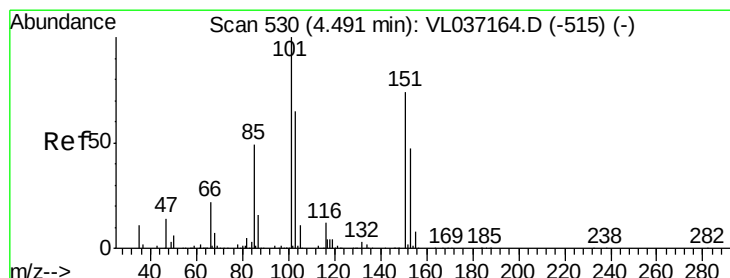
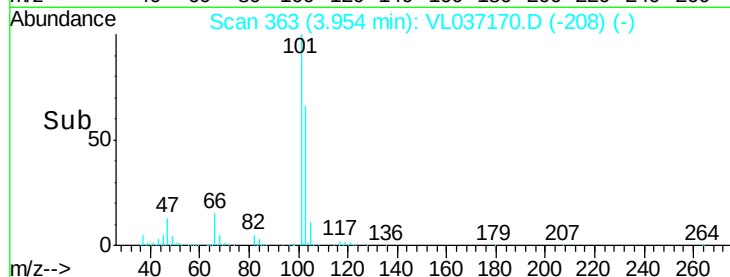
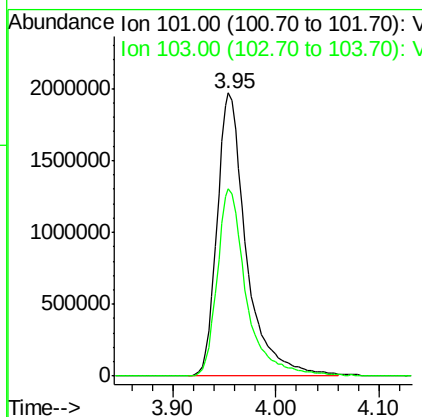
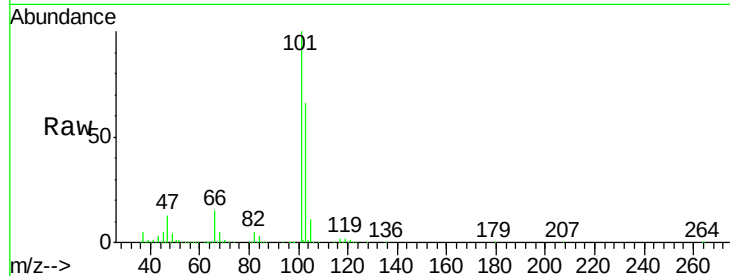
#11
 Trichlorofluoromethane
 Concen: 14.164 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3881493
 Ion Ratio Lower Upper
 101 100
 103 66.2 52.2 78.4

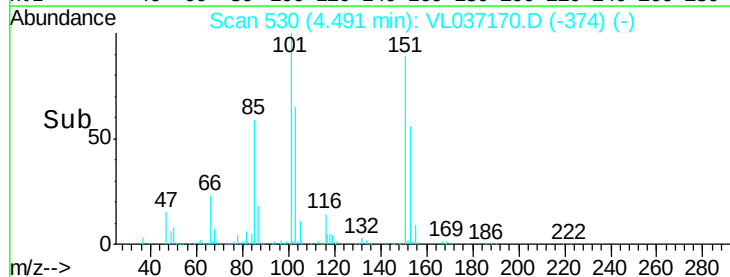
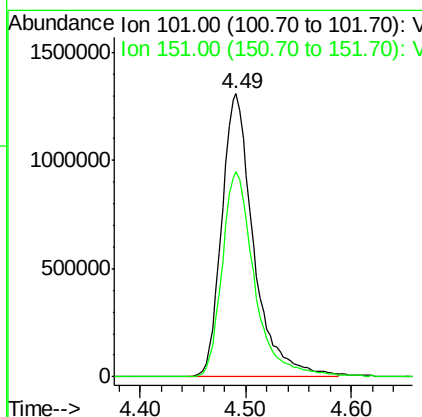
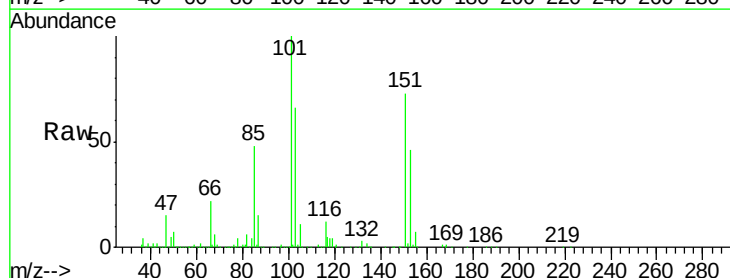
Manual Integrations
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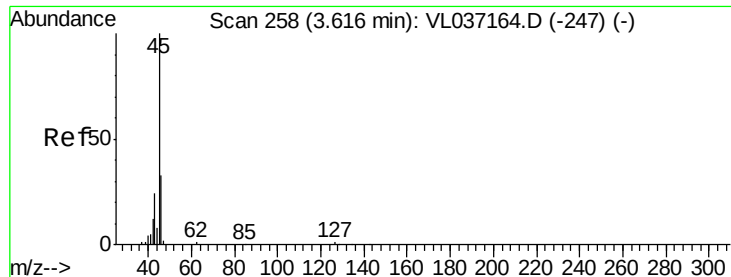
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.592 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Tgt Ion:101 Resp: 2743188
 Ion Ratio Lower Upper
 101 100
 151 74.1 59.1 88.7





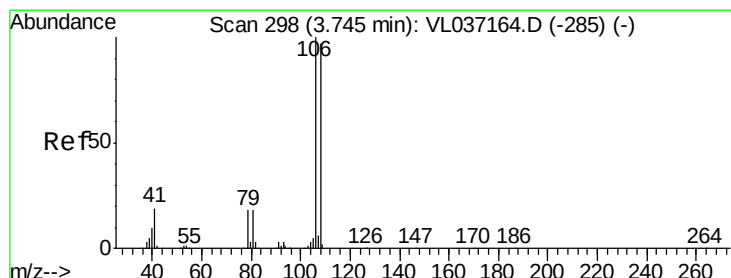
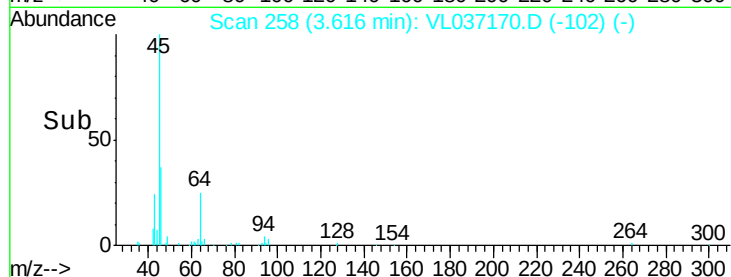
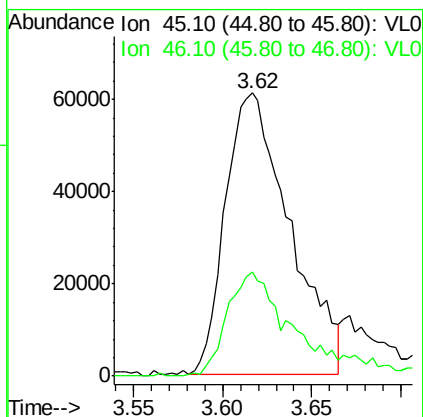
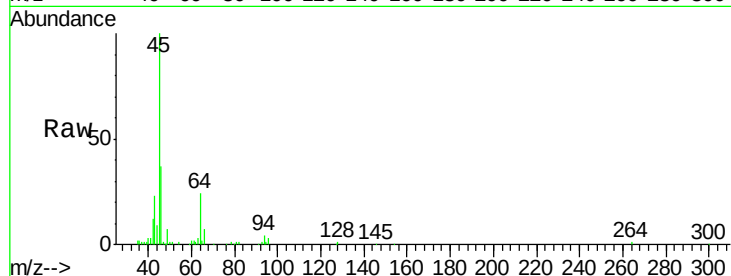
#13
Ethanol
Concen: 11.850 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	Resp	153647
Ion Ratio	100	Lower	Upper
46	41.2	34.2	137.0

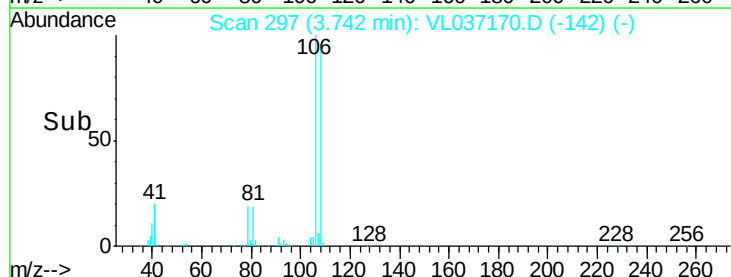
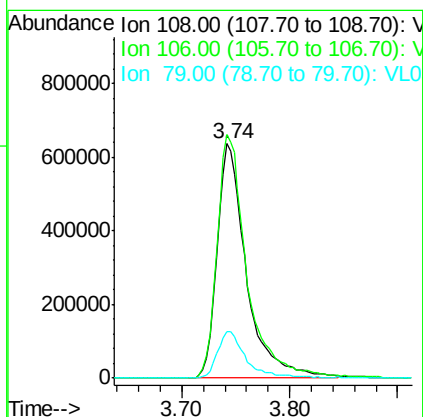
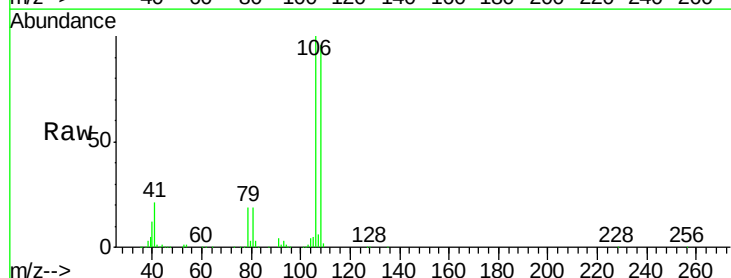
Manual Integrations
APPROVED

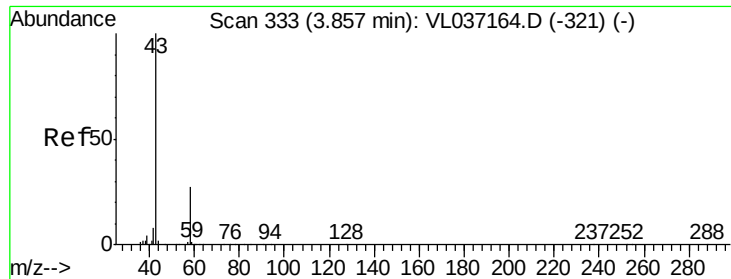
MMDadoda
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#14
Bromoethene
Concen: 14.770 ppbv
RT: 3.74 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion	108	Resp	1201474
Ion Ratio	100	Lower	Upper
106	106.7	86.8	130.2
79	19.8	15.6	23.4





#15

Acetone

Concen: 10.834 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1966114

Ion Ratio Lower Upper

43 100

58 27.9

23.7

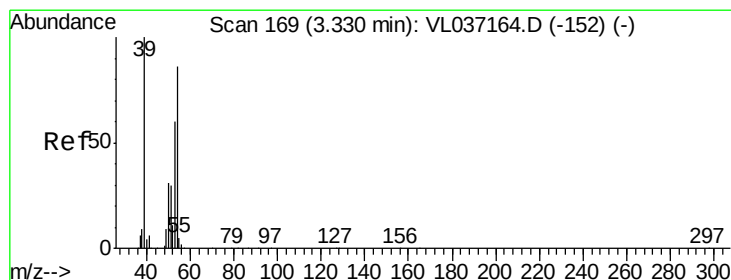
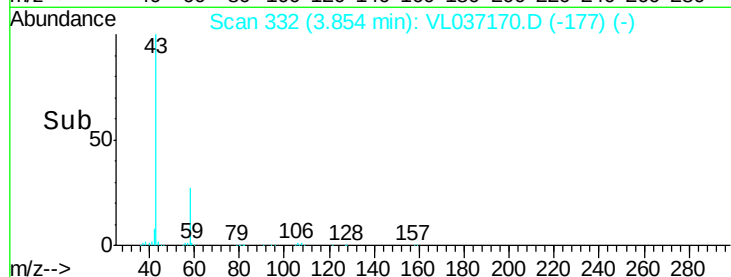
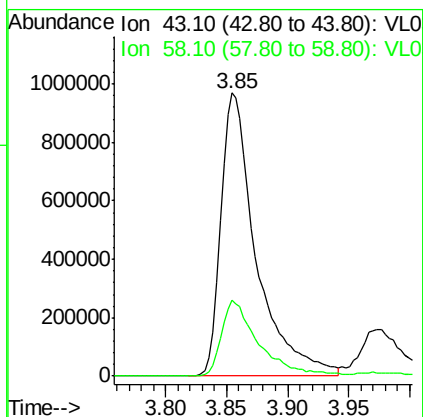
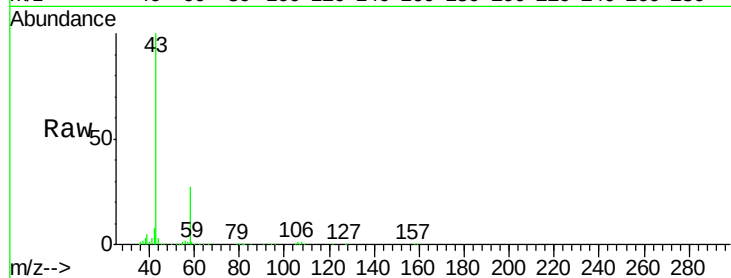
35.5

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#16

1,3-Butadiene

Concen: 14.436 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Tgt Ion: 39 Resp: 1414421

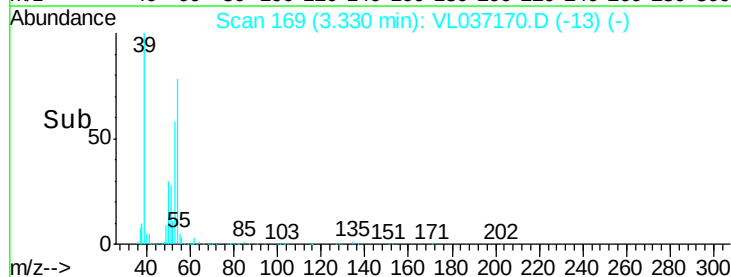
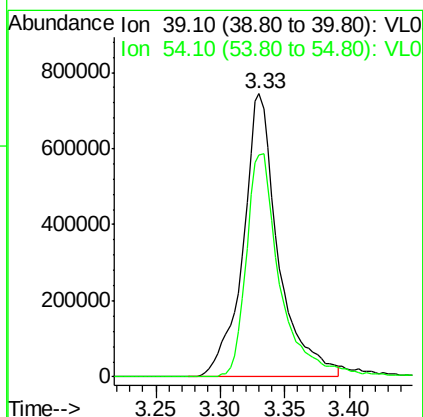
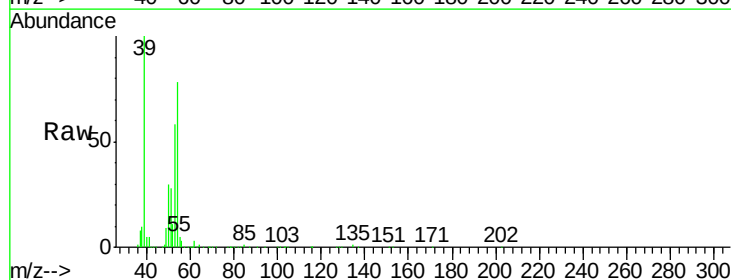
Ion Ratio Lower Upper

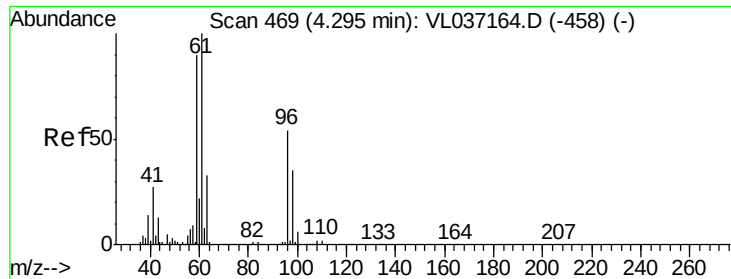
39 100

54 76.6

61.2

91.8





#17

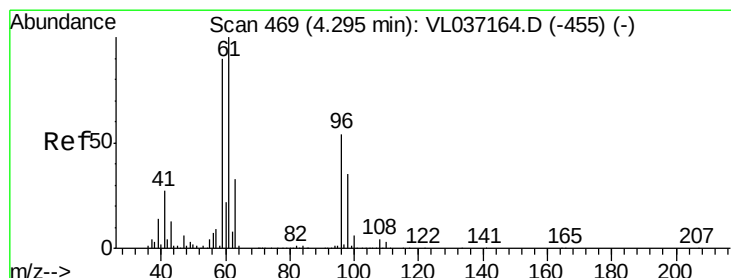
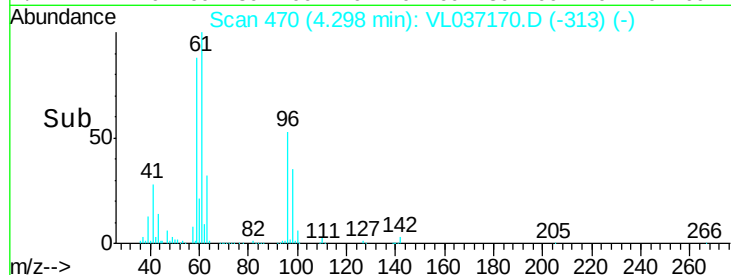
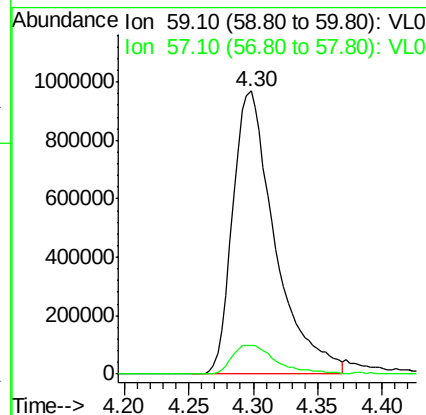
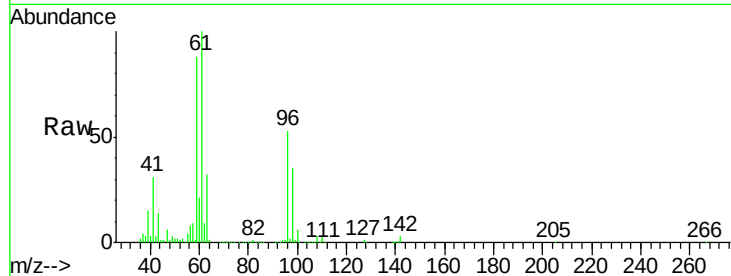
tert-Butyl alcohol
Concen: 14.070 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 59 Resp: 2209666
Ion Ratio Lower Upper
59 100
57 11.3 8.8 13.2

Manual Integrations
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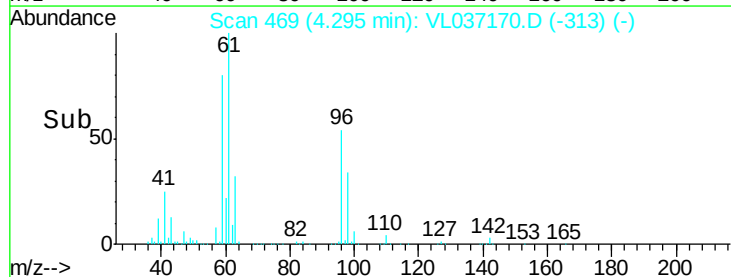
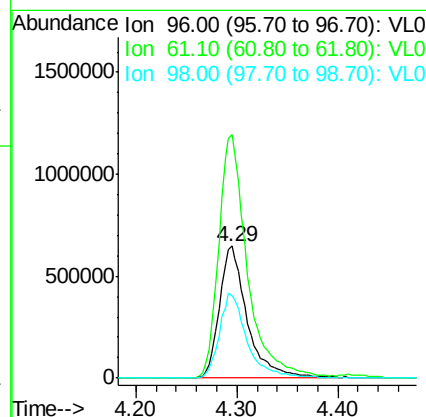
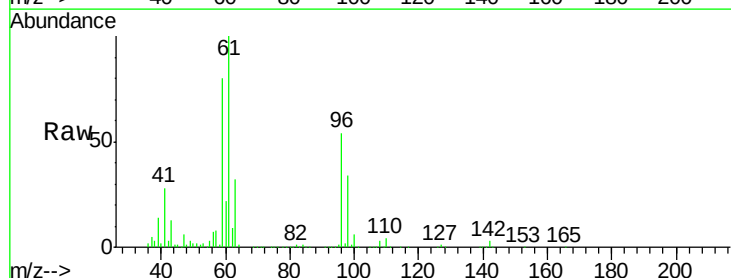
MMDadoda
6/17/2021 5:37:26 PM

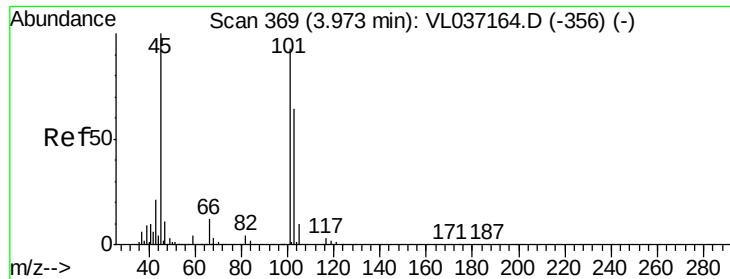


#18

1,1-Dichloroethene
Concen: 14.681 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion: 96 Resp: 1245098
Ion Ratio Lower Upper
96 100
61 184.2 148.6 222.8
98 62.7 51.9 77.9





#19

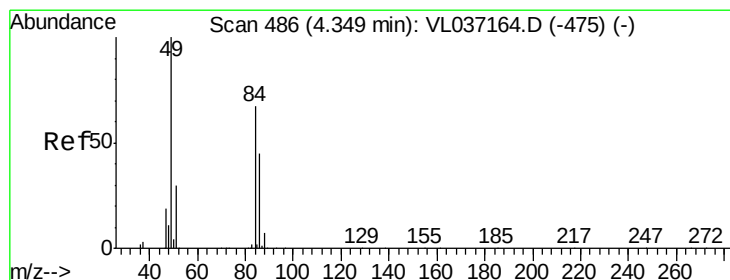
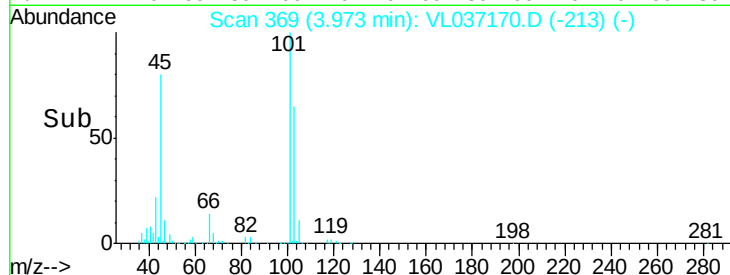
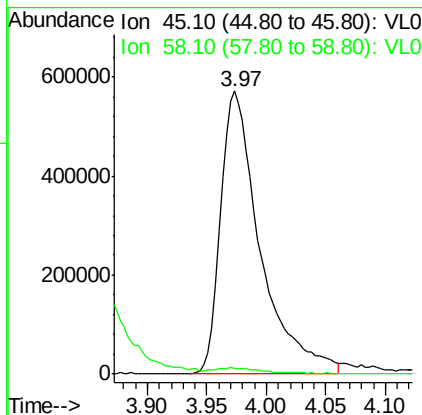
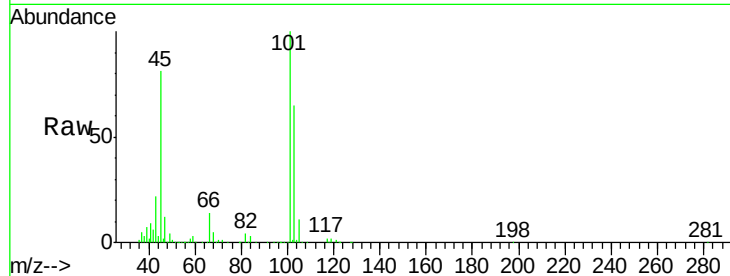
Isopropyl Alcohol
 Concen: 13.215 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1315972
 Ion Ratio Lower Upper
 45 100
 58 2.5 2.4 3.6

Manual Integrations
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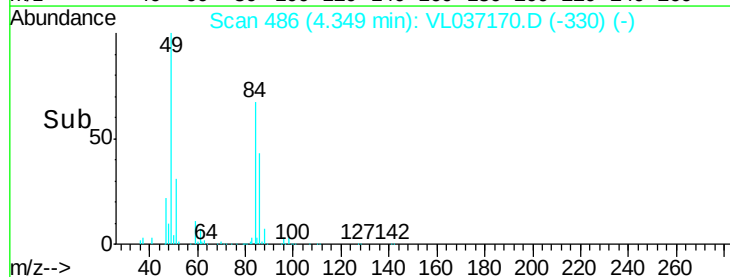
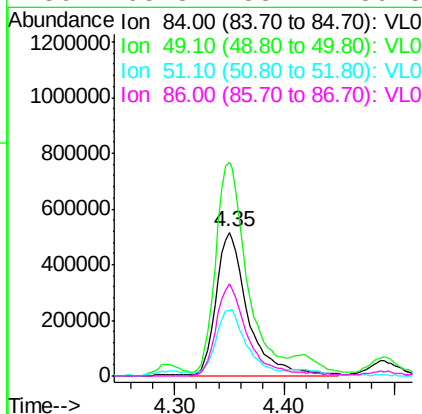
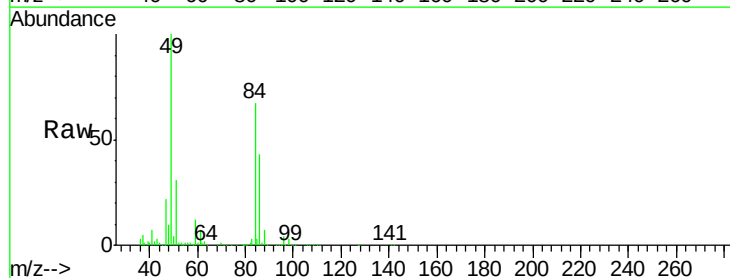
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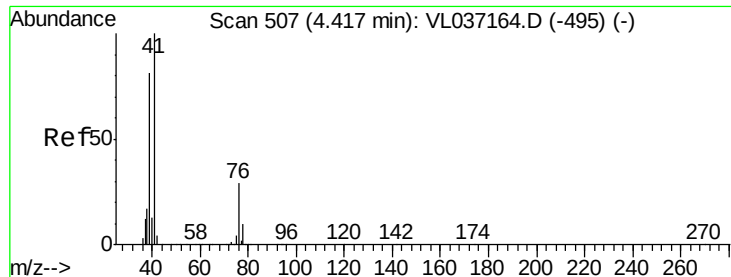


#20

Methylene Chloride
 Concen: 13.196 ppbv m
 RT: 4.35 min Scan# 486
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Tgt Ion: 84 Resp: 1043611
 Ion Ratio Lower Upper
 84 100
 49 148.5 119.7 179.5
 51 45.6 36.1 54.1
 86 63.8 53.7 80.5





#21

Allvl Chloride

Concen: 14.635 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1774298

Ion Ratio Lower Upper

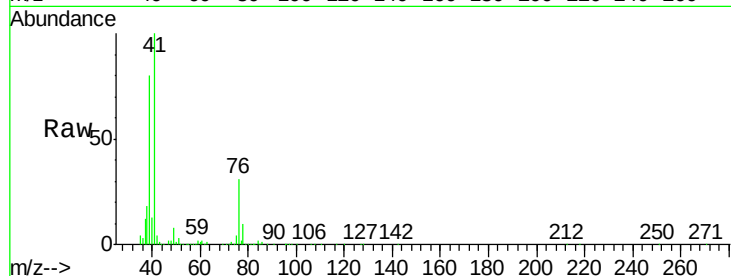
41 100

76 32.4 24.6 37.0

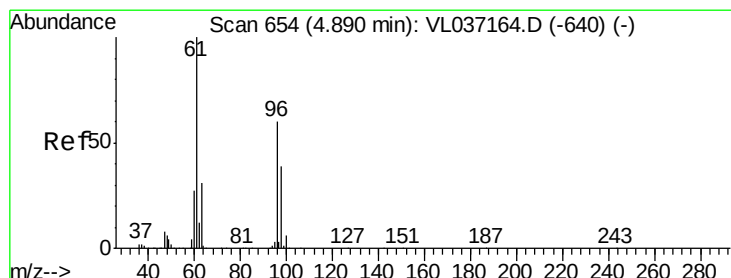
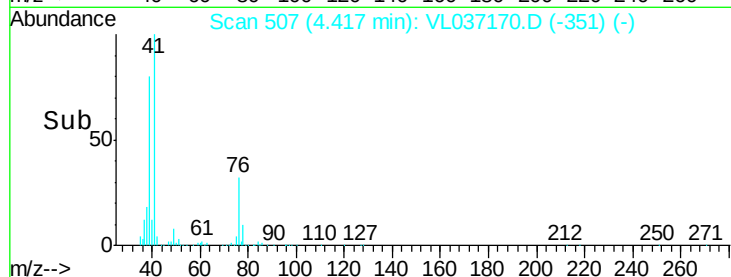
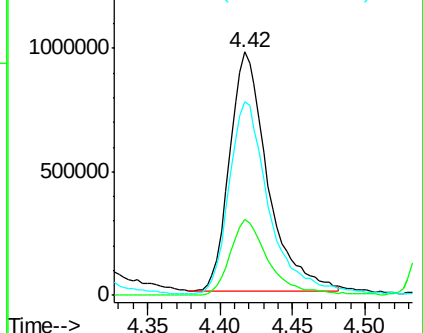
39 84.8 65.4 98.0

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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 15.202 ppbv

RT: 4.89 min Scan# 655

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

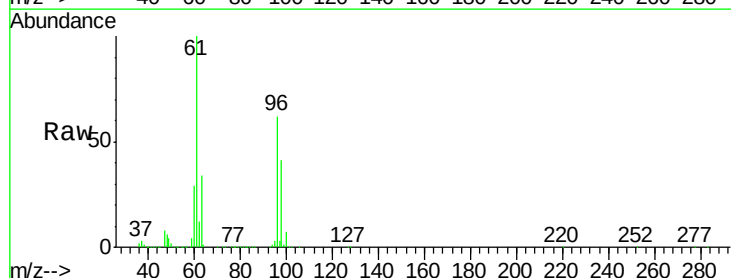
Tgt Ion: 96 Resp: 1256147

Ion Ratio Lower Upper

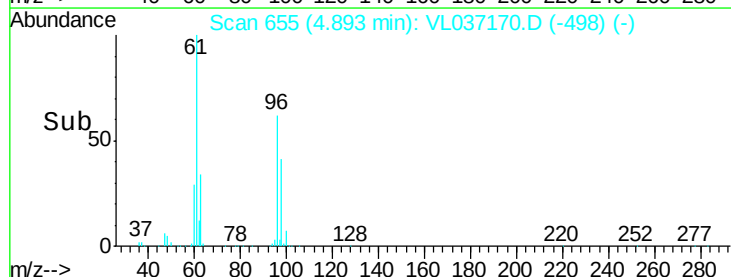
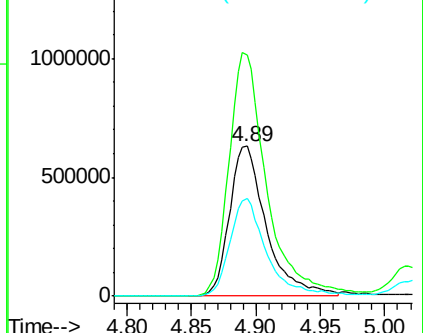
96 100

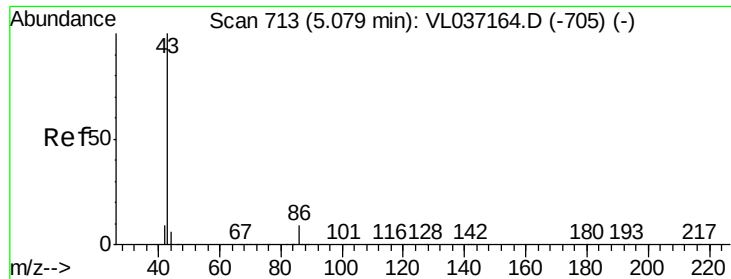
61 160.8 133.9 200.9

98 65.5 52.9 79.3



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 15.313 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Tot Ion: 43 Resp: 3649195

Ion Ratio Lower Upper

43 100

86 8.1 5.8 8.8

42 10.6 8.2 12.2

44 4.9 4.2 6.4

Instrument :

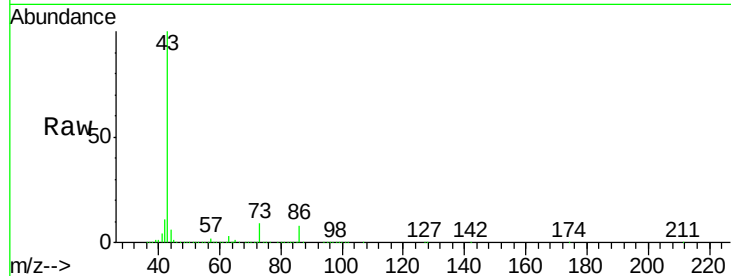
MSVOA_L

ClientSampleId :

VSTDIC015

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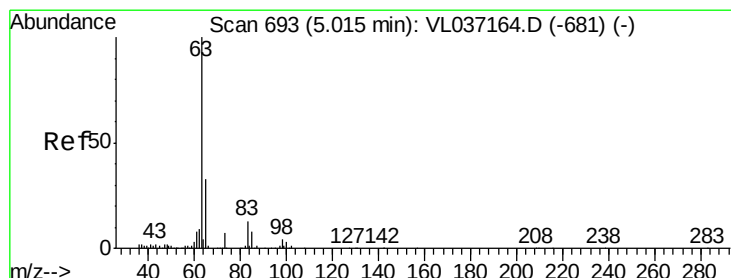
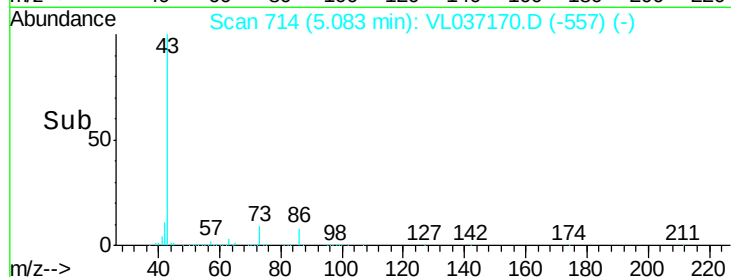
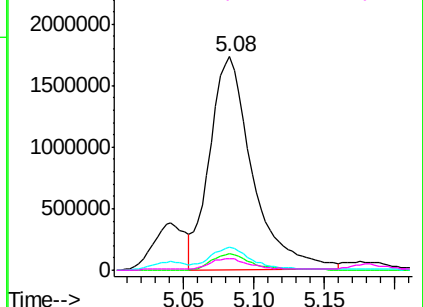


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 14.319 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

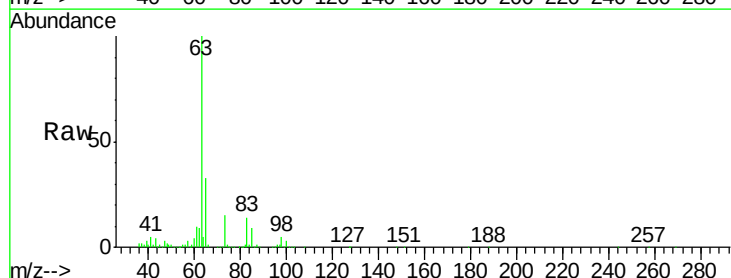
Tgt Ion: 63 Resp: 2738410

Ion Ratio Lower Upper

63 100

98 4.8 2.1 6.5

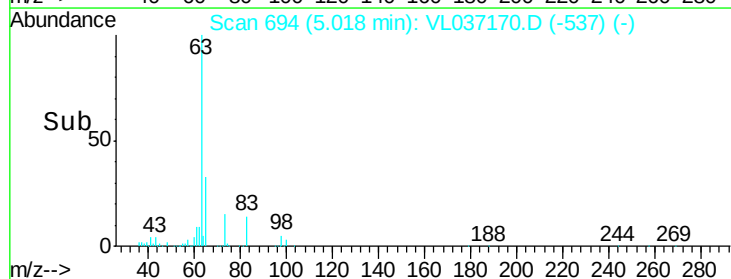
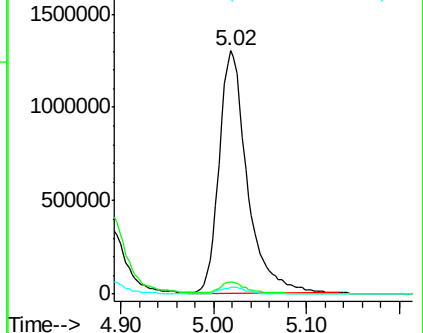
100 2.9 1.4 4.0

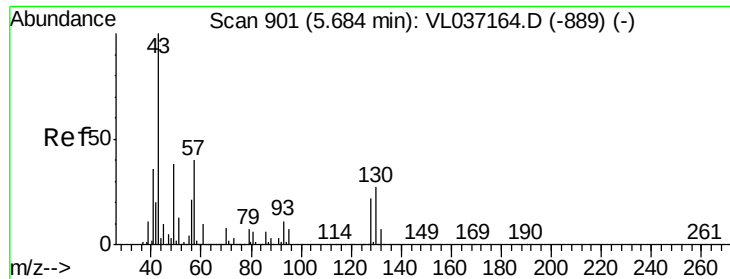


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





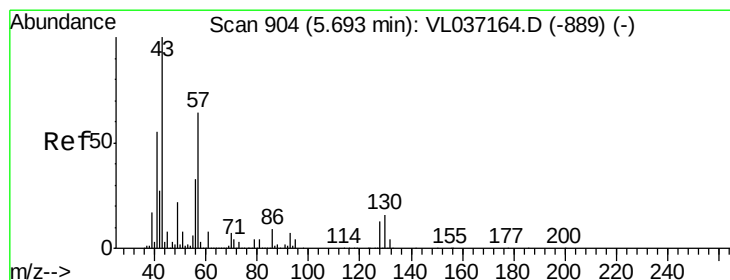
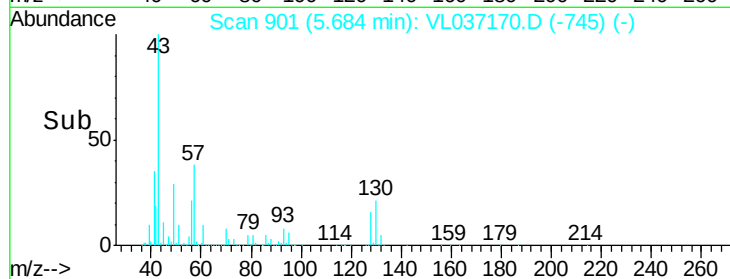
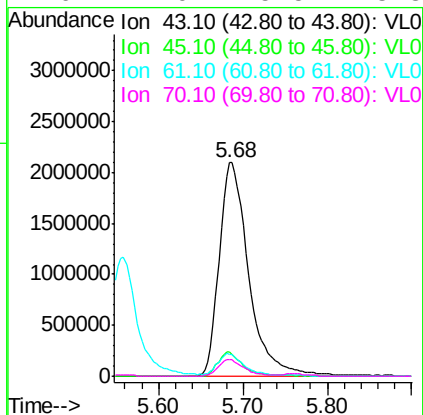
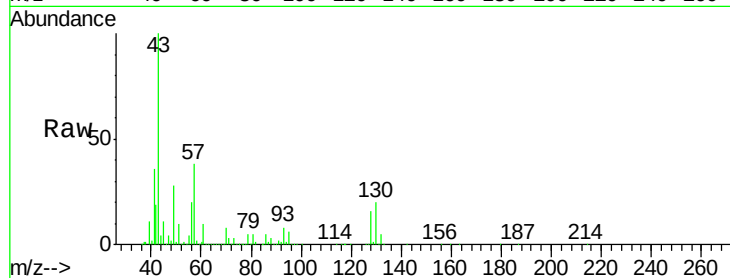
#25
Ethyl Acetate
Concen: 14.281 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	43	Resp	5078002
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	10.1	8.1	12.1
70	7.0	5.5	8.3

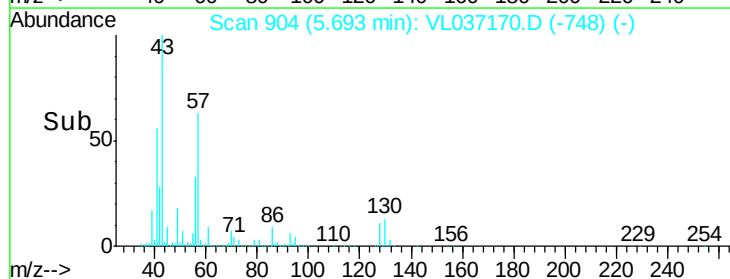
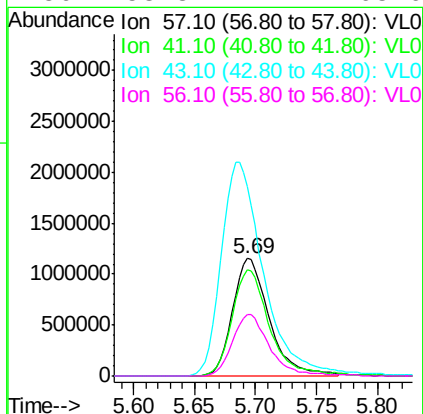
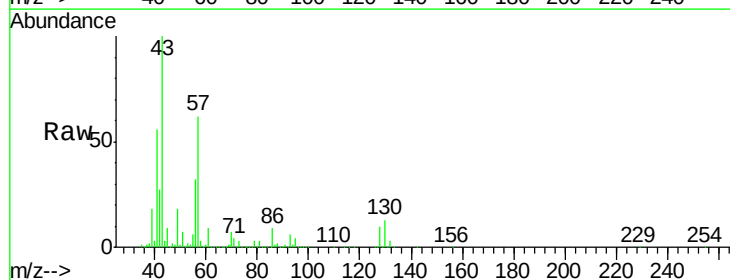
Manual Integrations
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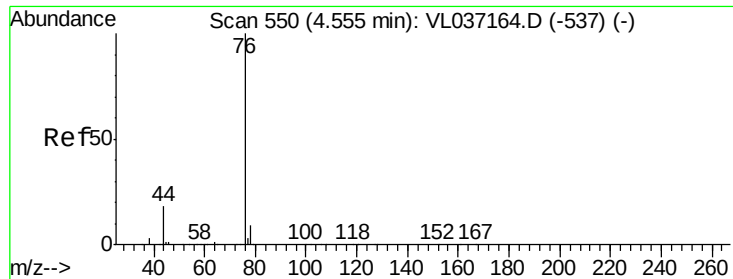
MMDadoda
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#26
Hexane
Concen: 13.606 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion	57	Resp	2406122
Ion	Ratio	Lower	Upper
57	100		
41	93.1	73.5	110.3
43	213.0	170.7	256.1
56	53.3	42.4	63.6





#27

Carbon Disulfide

Concen: 16.414 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2942840

Ion Ratio Lower Upper

76 100

44 19.2 15.4 23.2

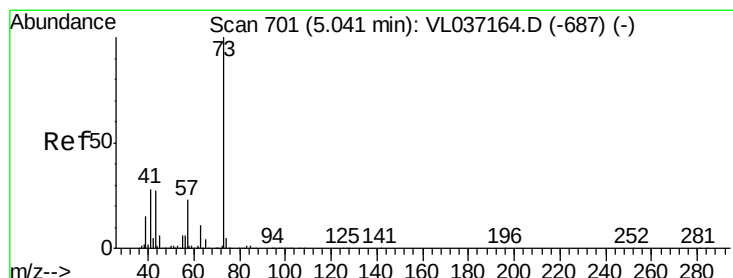
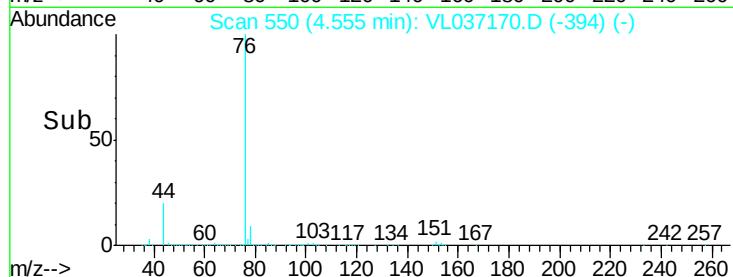
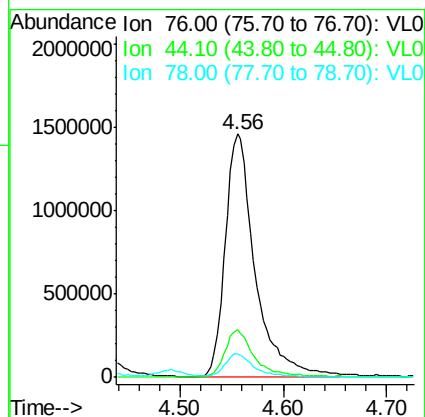
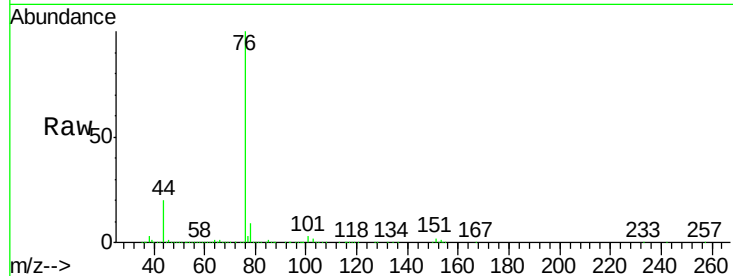
78 9.9 8.0 12.0

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 13.938 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.00 min

Lab File: VL037170.D

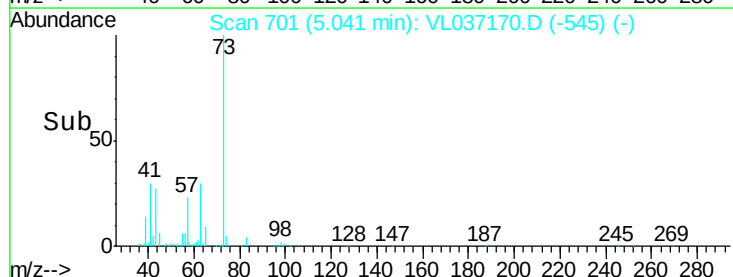
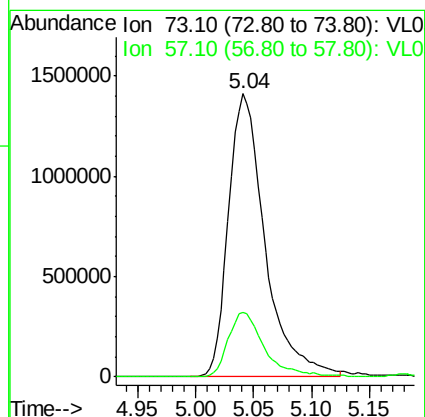
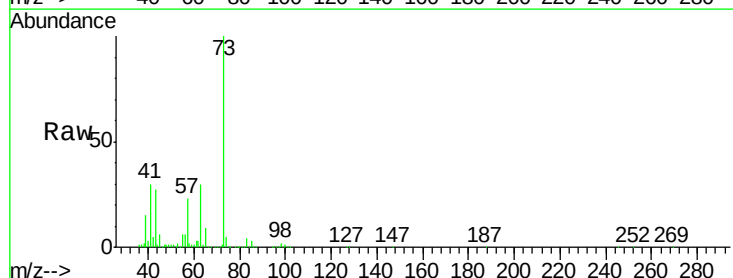
Acq: 16 Jun 2021 13:14

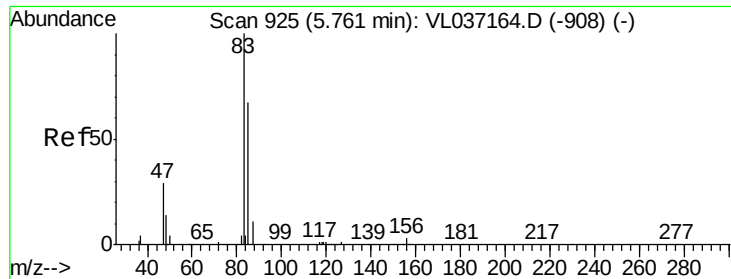
Tgt Ion: 73 Resp: 3087078

Ion Ratio Lower Upper

73 100

57 22.7 18.0 27.0





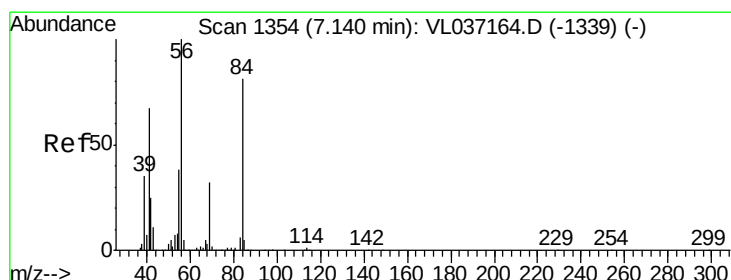
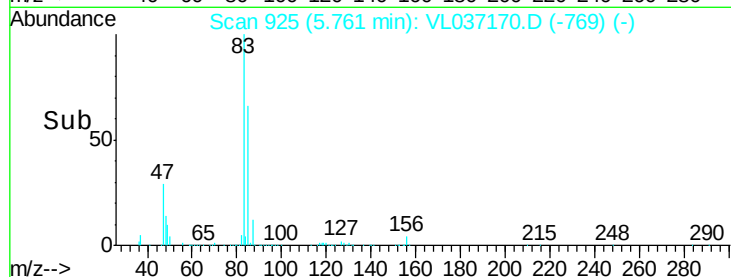
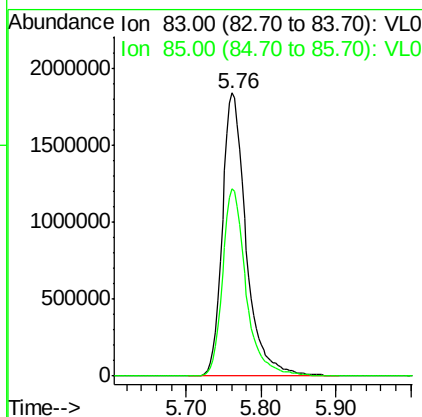
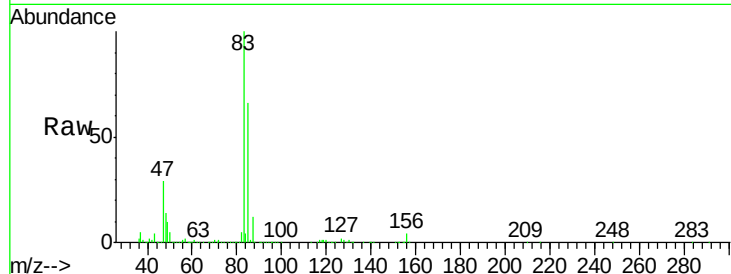
#29
Chloroform
Concen: 14.127 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 4032966
Ion Ratio Lower Upper
83 100
85 66.0 53.6 80.4

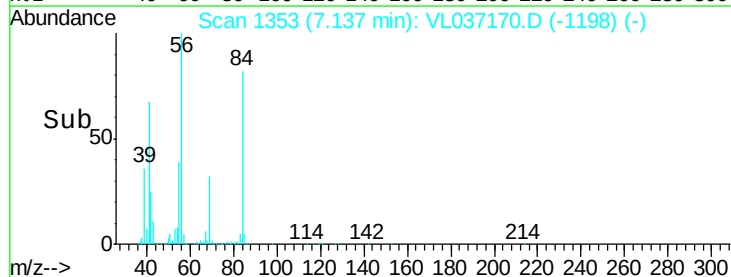
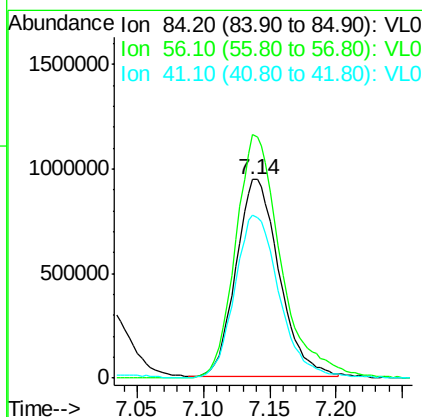
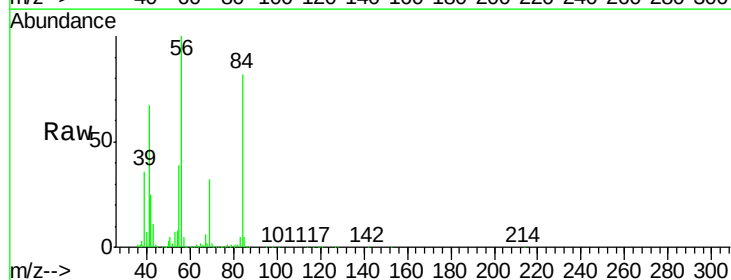
Manual Integrations
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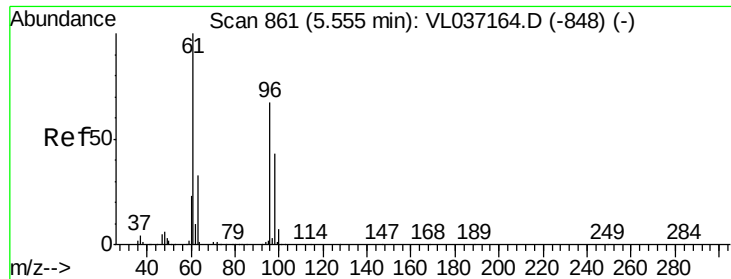
MMDadoda
6/17/2021 5:37:26 PM



#30
Cyclohexane
Concen: 13.863 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion: 84 Resp: 2137331
Ion Ratio Lower Upper
84 100
56 130.6 107.7 161.5
41 85.9 69.0 103.6





#31

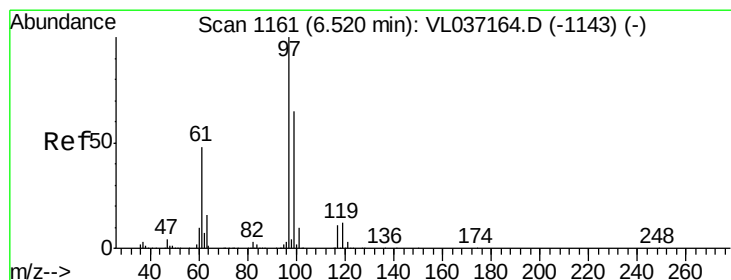
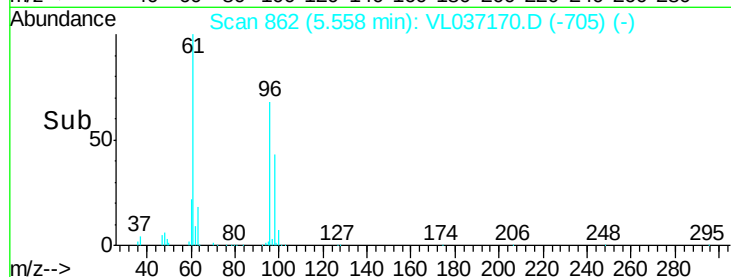
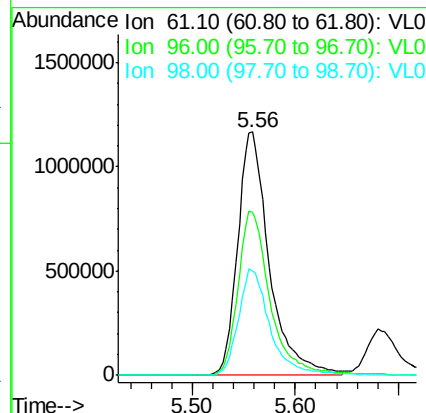
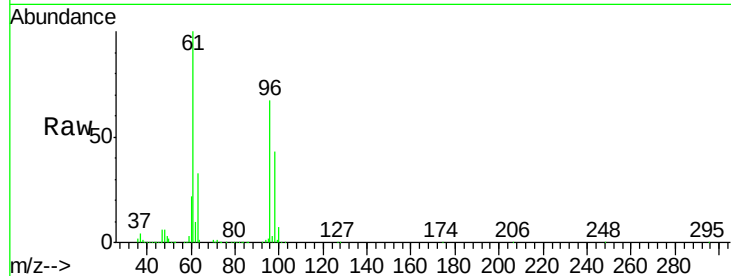
cis-1,2-Dichloroethene
Concen: 14.614 ppbv
RT: 5.56 min Scan# 862
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.1	53.6	80.4
98	42.9	34.7	52.1

Manual Integrations
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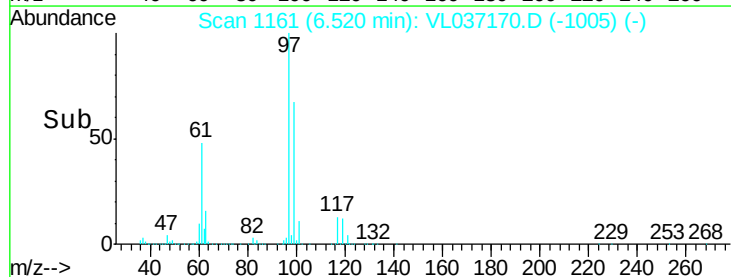
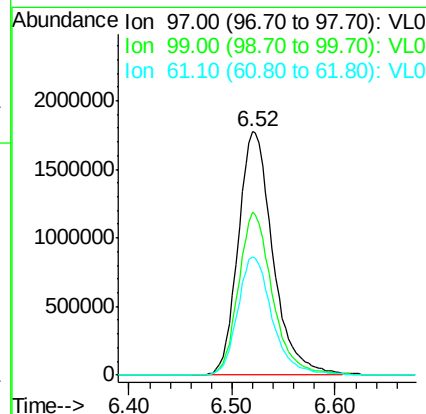
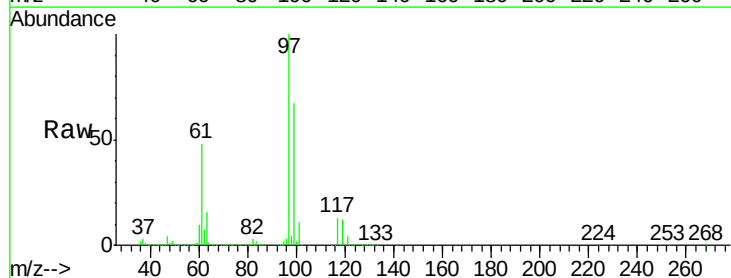
MMDadoda
6/17/2021 5:37:26 PM

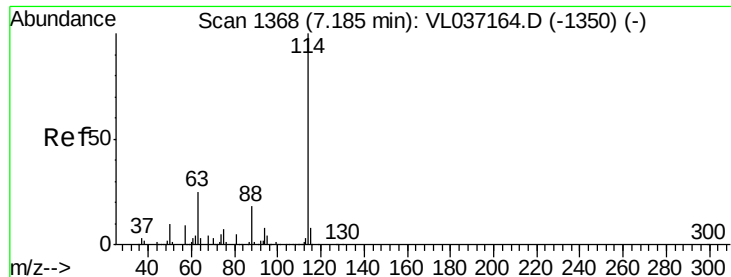


#32

1,1,1-Trichloroethane
Concen: 15.866 ppbv
RT: 6.52 min Scan# 1161
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	52.2	78.4
61	48.3	38.8	58.2





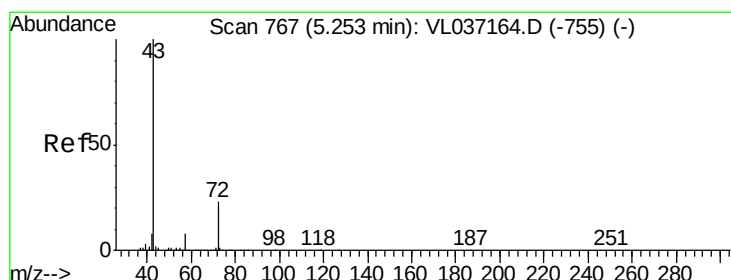
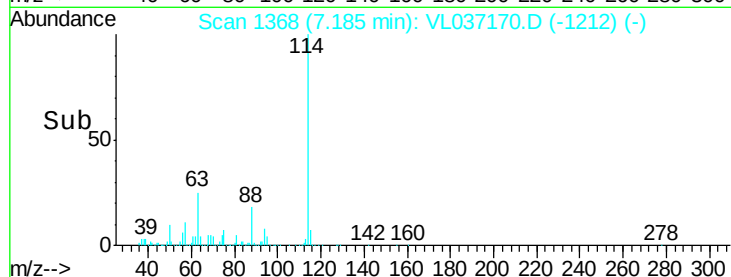
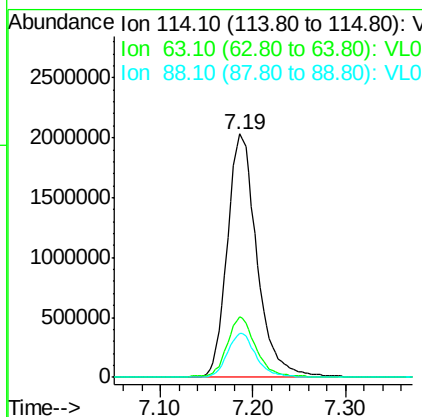
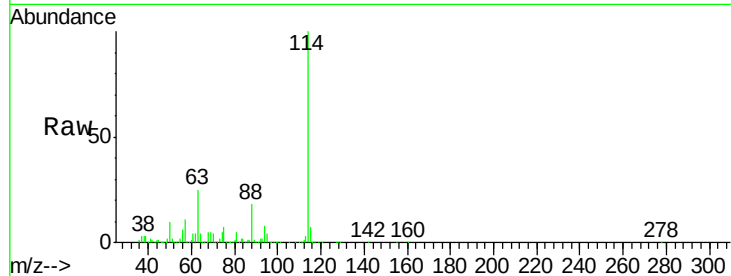
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 4512042
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.6 29.4
 88 17.6 14.2 21.2

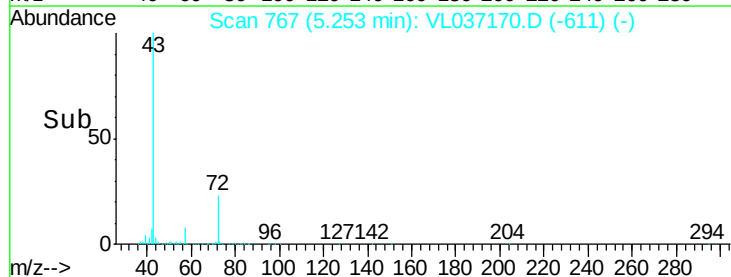
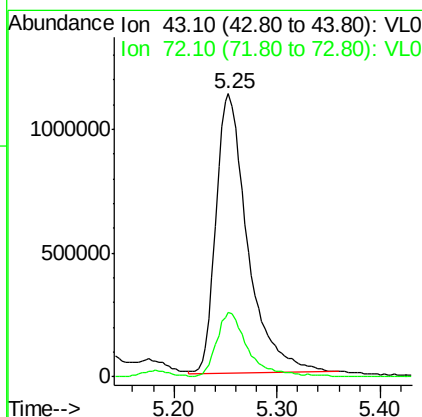
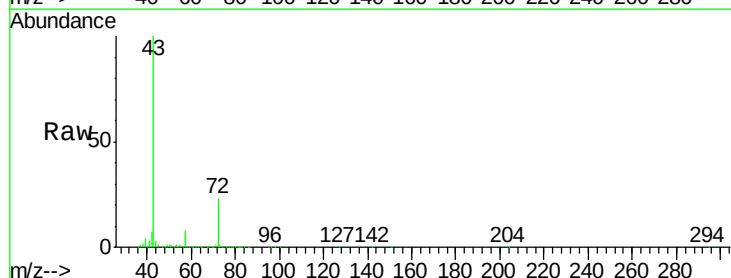
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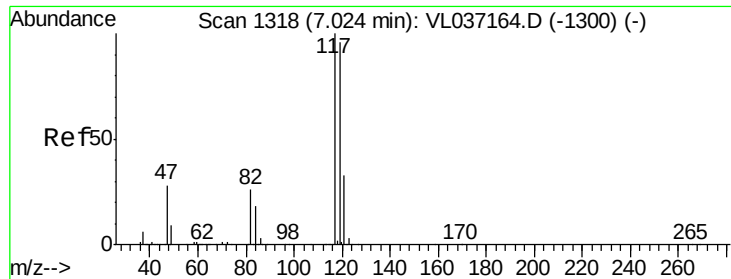
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#34
 2-Butanone
 Concen: 14.278 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Tgt Ion: 43 Resp: 2419428
 Ion Ratio Lower Upper
 43 100
 72 23.3 18.9 28.3





#35

Carbon Tetrachloride

Concen: 16.174 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 4486136

Ion Ratio Lower Upper

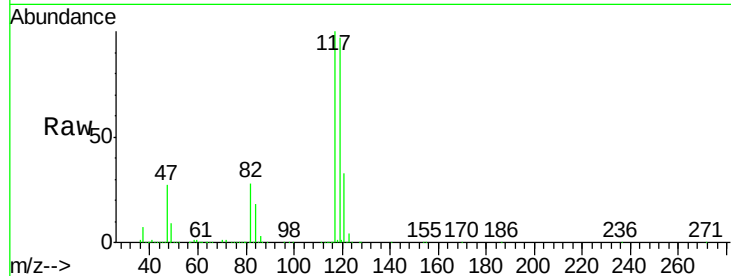
117 100

119 97.0 76.6 114.8

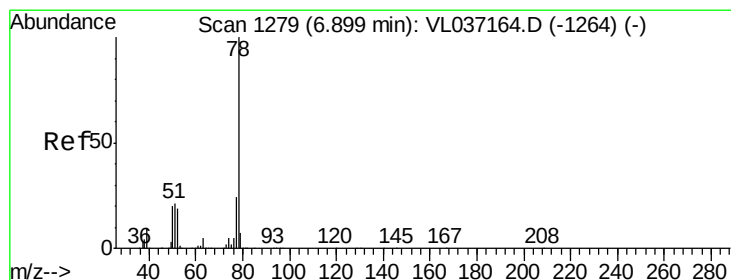
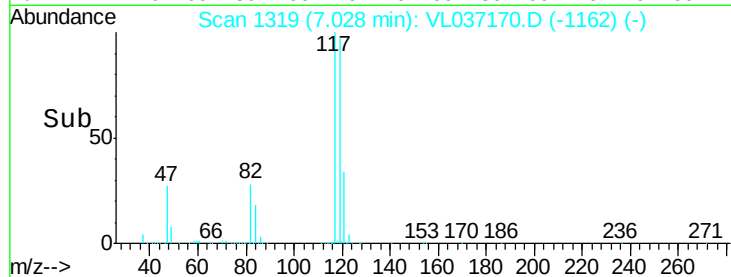
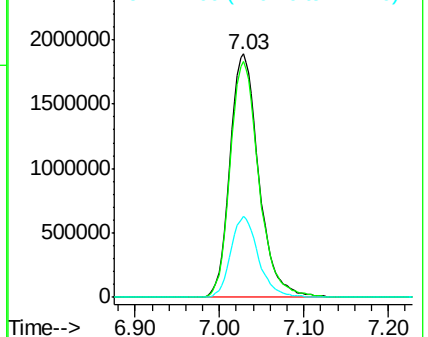
121 33.2 26.4 39.6

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.064 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

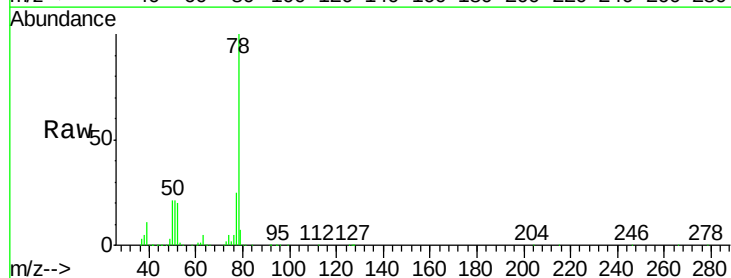
Tgt Ion: 78 Resp: 5035235

Ion Ratio Lower Upper

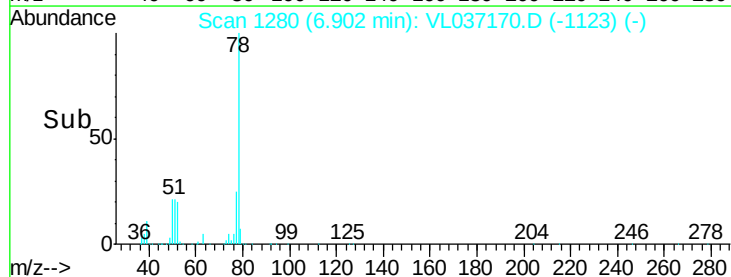
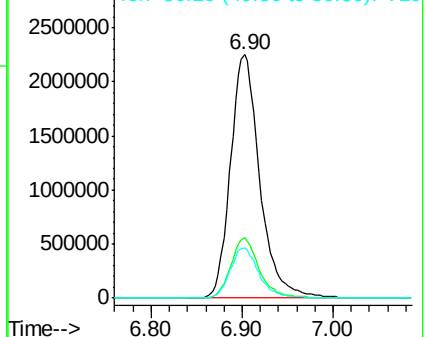
78 100

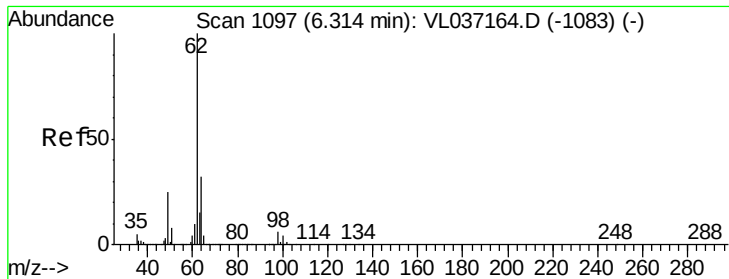
77 24.7 19.0 28.6

50 20.8 15.7 23.5



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 14.646 ppbv

RT: 6.32 min Scan# 1098

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 3044960

Ion Ratio Lower Upper

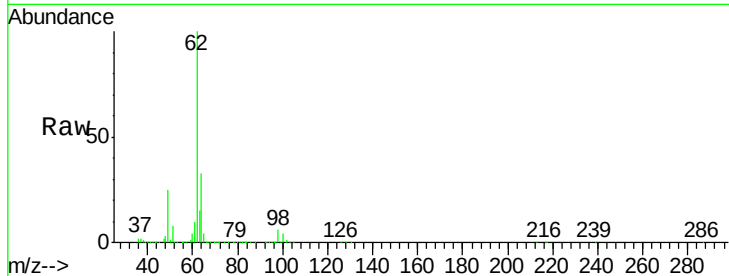
62 100

98 6.3 5.0 7.6

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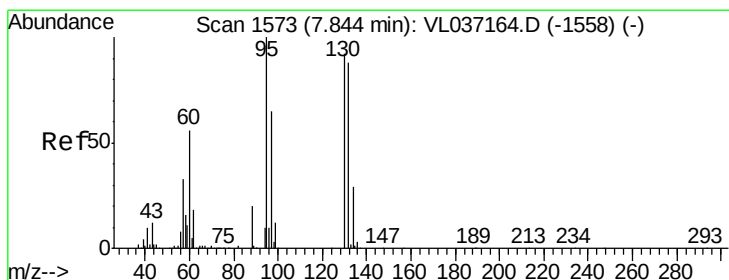
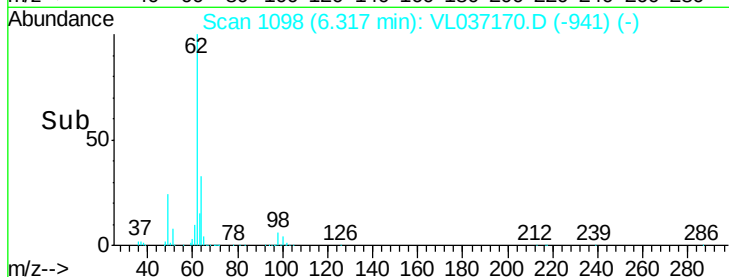
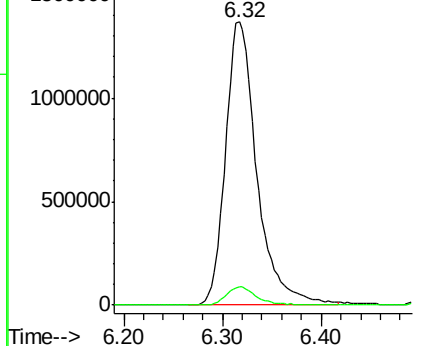
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 14.259 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Tgt Ion:130 Resp: 2206122

Ion Ratio Lower Upper

130 100

95 106.9 86.6 129.8

132 96.6 76.6 114.8

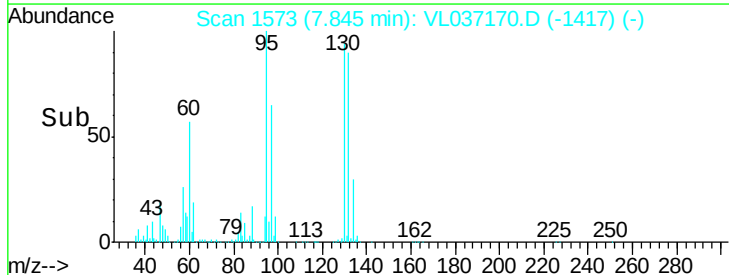
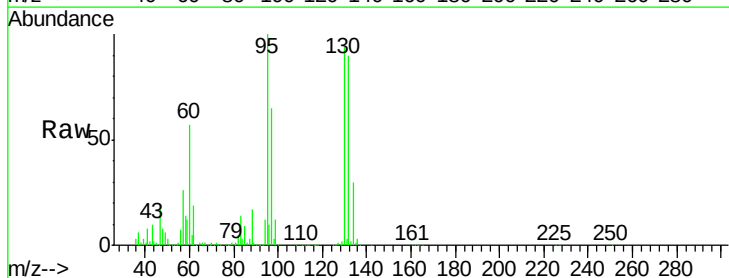
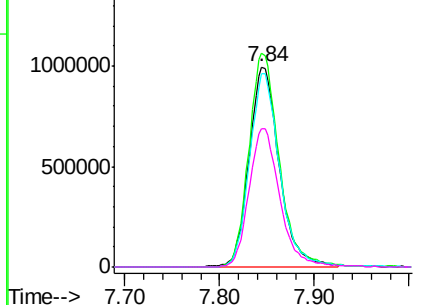
97 69.3 56.1 84.1

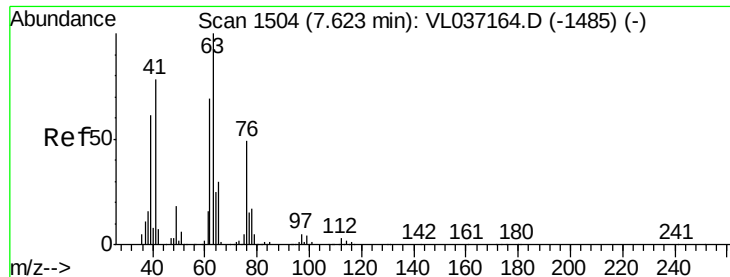
Abundance Ion 130.00 (129.70 to 130.70): V

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: 14.201 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1941176

Ion Ratio Lower Upper

63 100

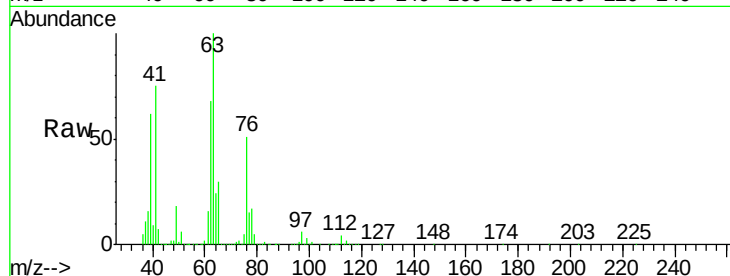
41 74.6 62.0 93.0

62 68.5 54.9 82.3

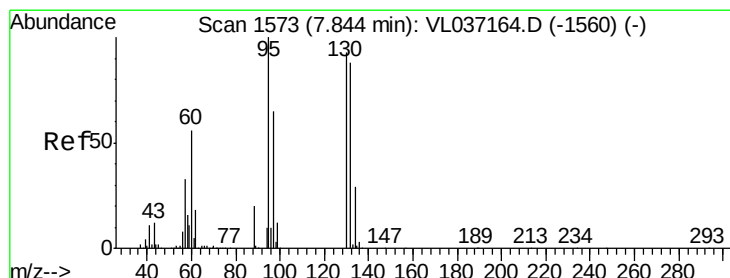
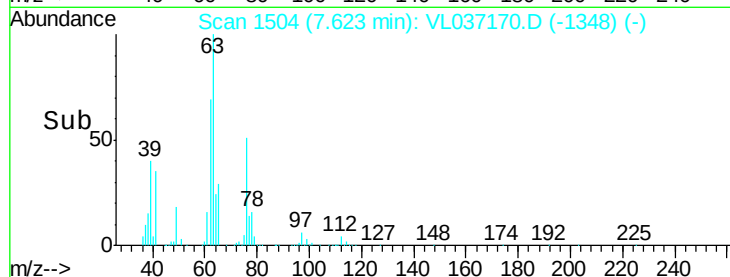
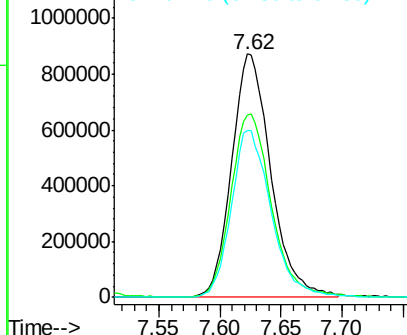
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 12.565 ppbv m

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Tgt Ion: 88 Resp: 480948

Ion Ratio Lower Upper

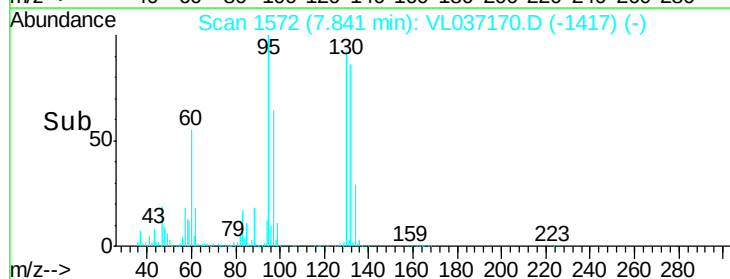
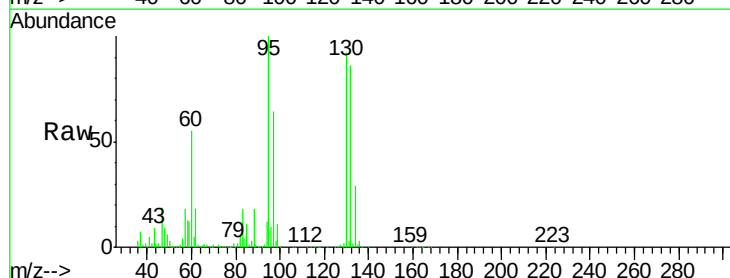
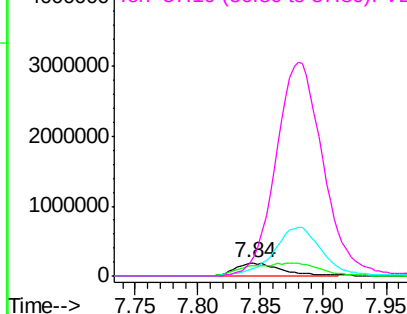
88 100

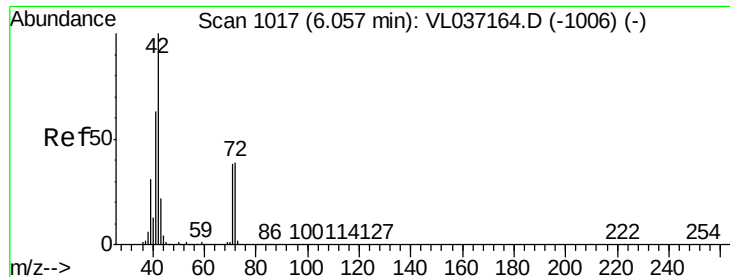
58 0.0 118.4 177.6#

43 0.0 284.0 426.0#

57 0.0 1231.8 1847.6#

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





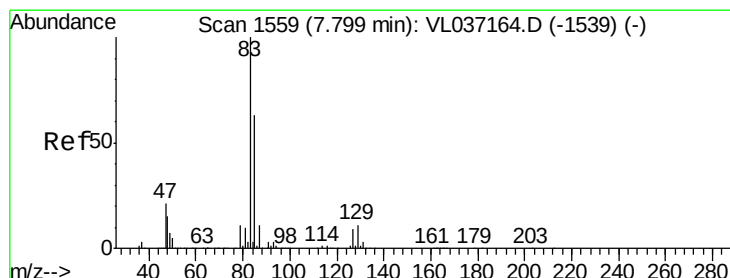
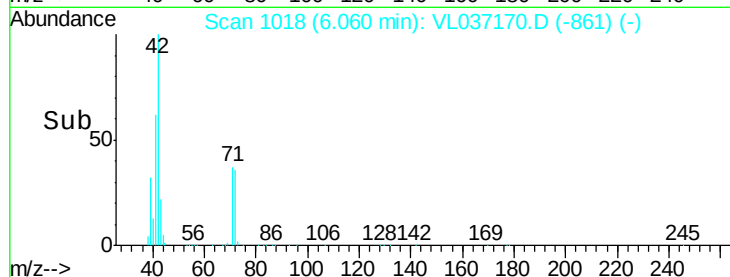
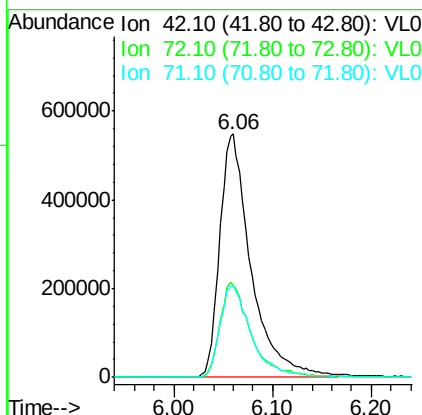
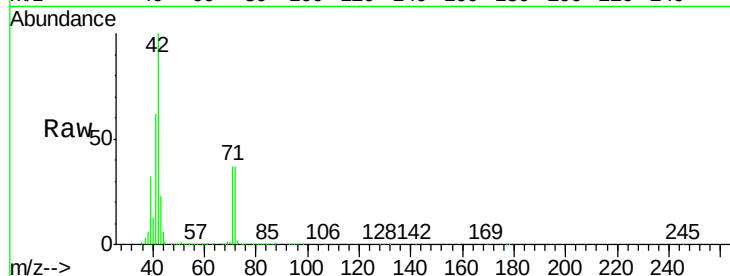
#41
Tetrahydrofuran
Concen: 14.770 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 42 Resp: 1218076
Ion Ratio Lower Upper
42 100
72 39.2 33.0 49.4
71 38.4 31.0 46.6

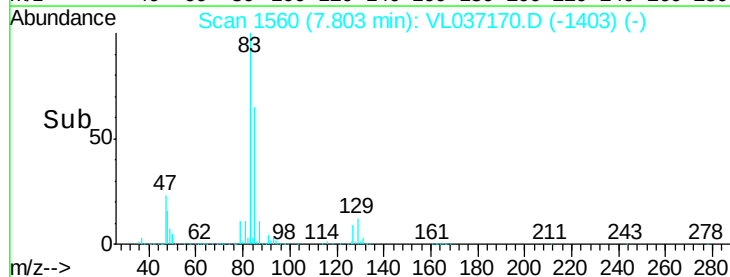
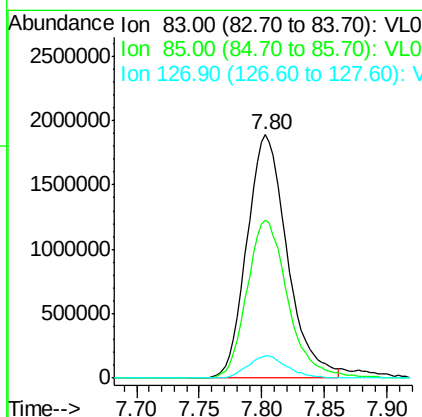
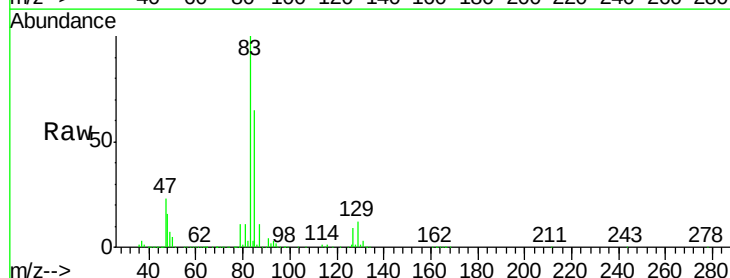
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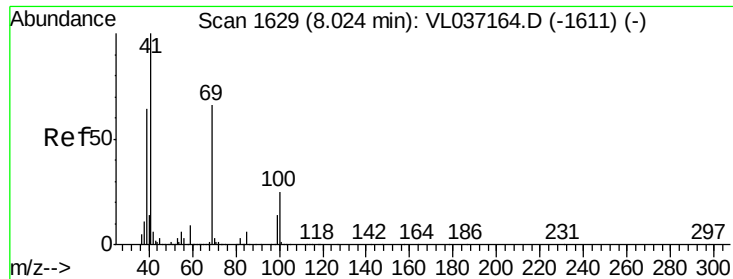
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#42
Bromodichloromethane
Concen: 14.753 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion: 83 Resp: 4225854
Ion Ratio Lower Upper
83 100
85 65.0 50.8 76.2
127 9.4 7.0 10.6





#43

Methyl Methacrylate

Concen: 15.471 ppbv

RT: 8.02 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

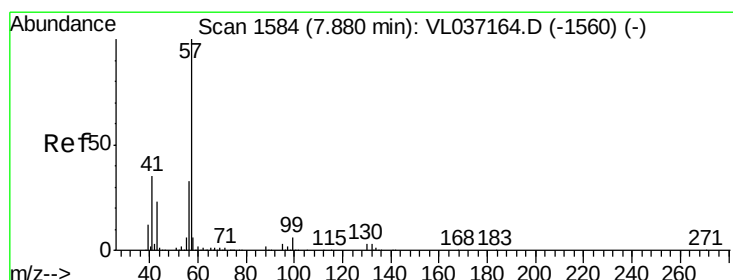
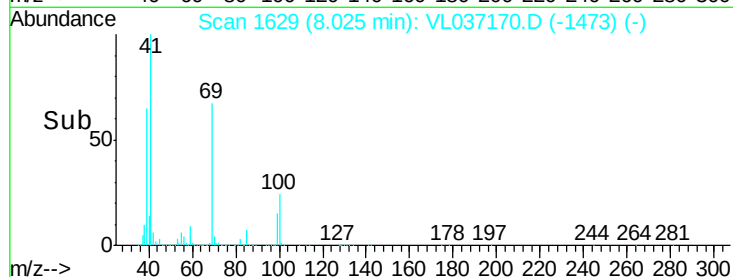
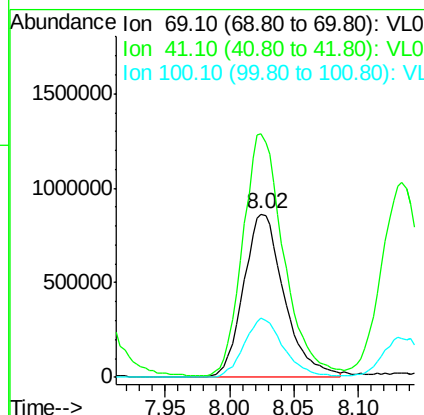
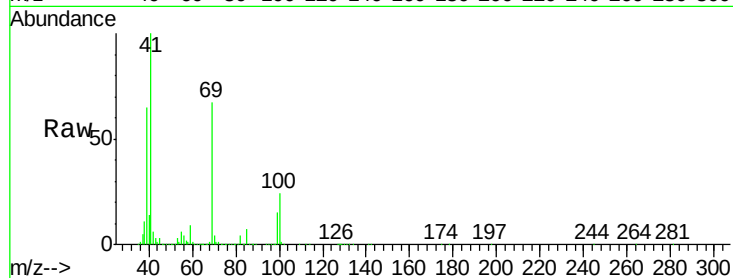
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1900309

Ion	Ratio	Lower	Upper
69	100		
41	151.2	119.4	179.0
100	35.5	28.6	43.0

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 13.461 ppbv

RT: 7.88 min Scan# 1584

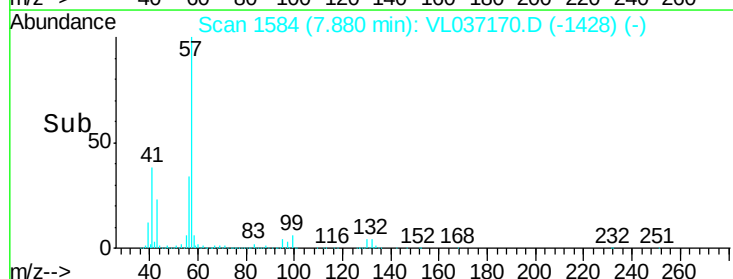
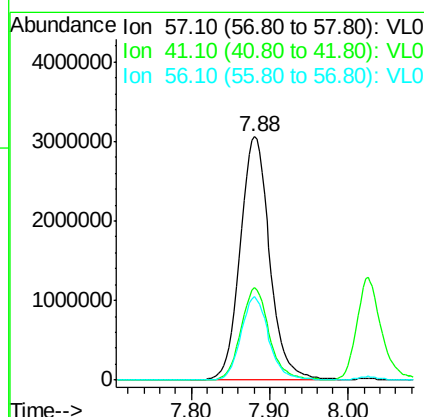
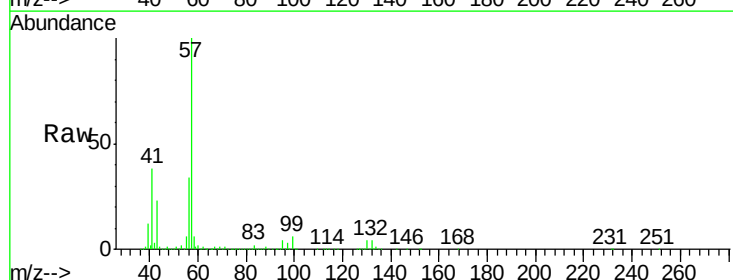
Delta R.T. 0.00 min

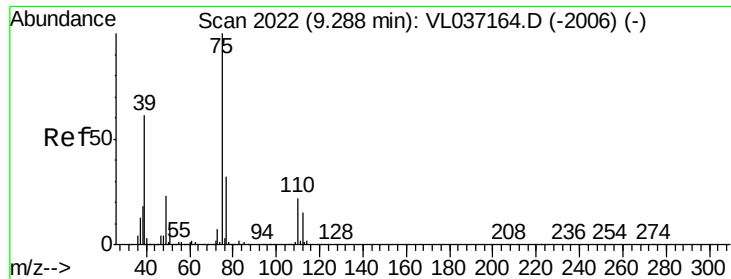
Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Tgt Ion: 57 Resp: 8066716

Ion	Ratio	Lower	Upper
57	100		
41	36.2	27.6	41.4
56	32.3	25.3	37.9





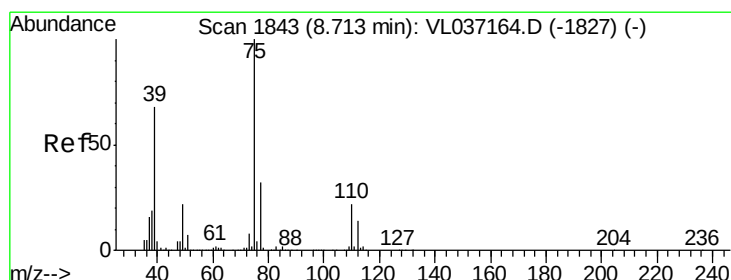
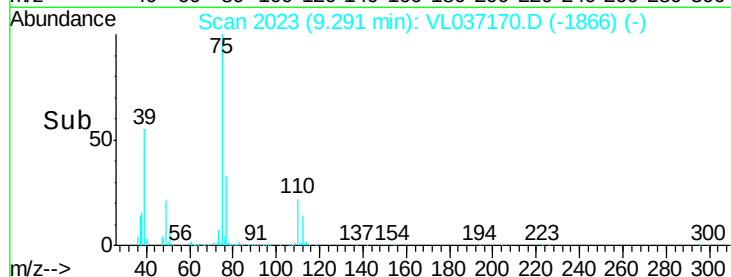
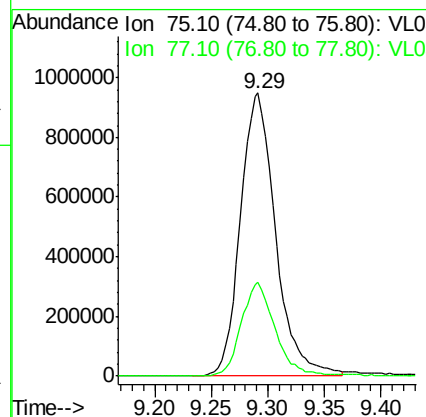
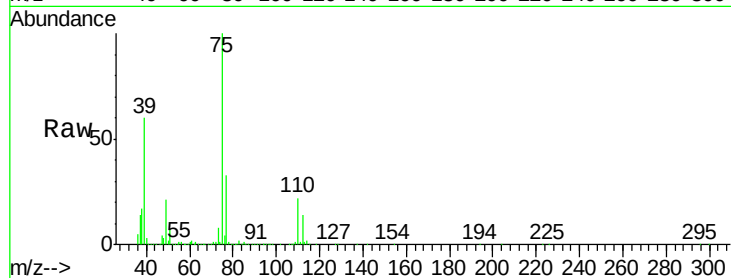
#45
 t-1,3-Dichloropropene
 Concen: 18.558 ppbv
 RT: 9.29 min Scan# 2023
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 75 Resp: 2054134
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.6 38.4

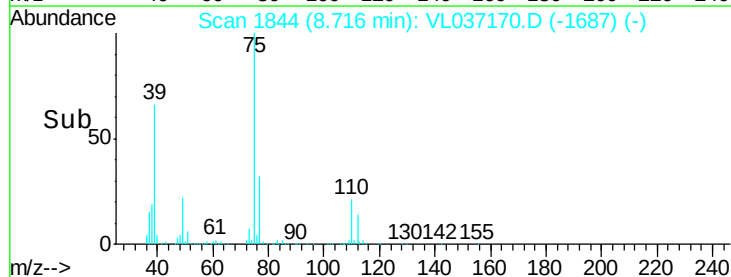
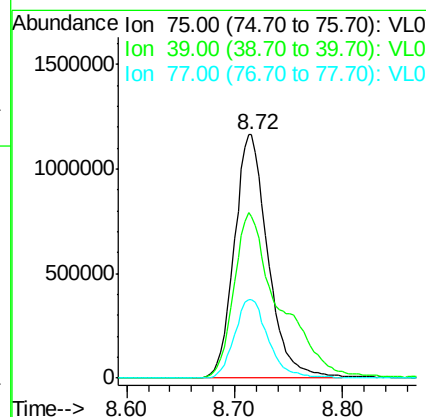
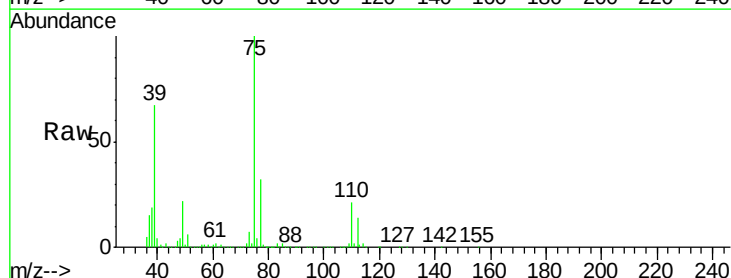
Manual Integrations
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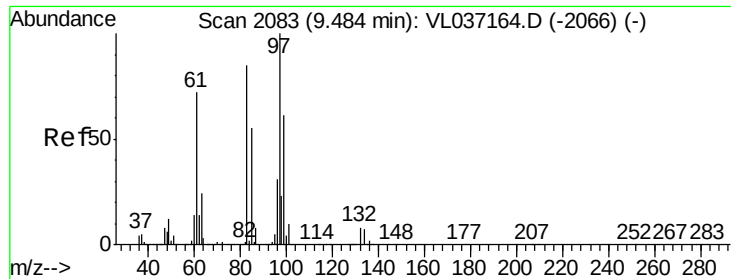
MMDadoda
 6/17/2021 5:37:26 PM



#46
 cis-1,3-Dichloropropene
 Concen: 17.133 ppbv
 RT: 8.72 min Scan# 1844
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Tgt Ion: 75 Resp: 2530302
 Ion Ratio Lower Upper
 75 100
 39 66.4 54.7 82.1
 77 32.2 25.8 38.8





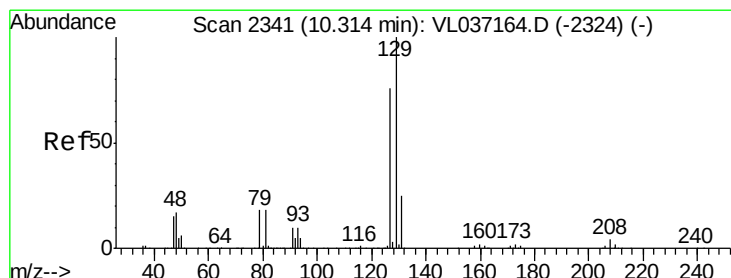
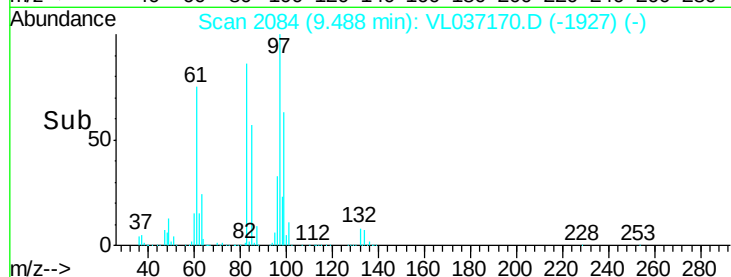
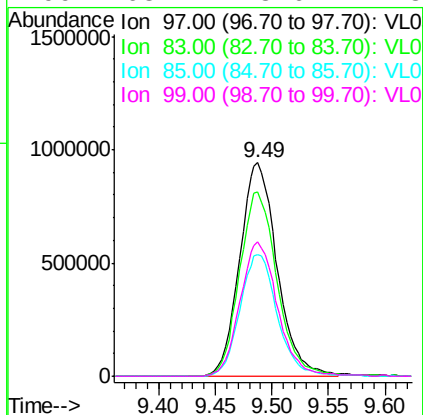
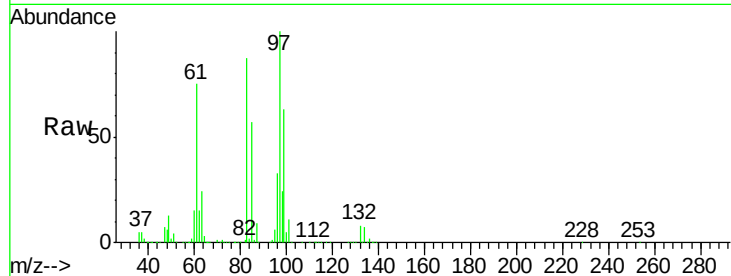
#47
 1,1,2-Trichloroethane
 Concen: 13.990 ppbv
 RT: 9.49 min Scan# 2084
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.5	68.3	102.5
85	57.1	44.1	66.1
99	63.2	48.6	72.8

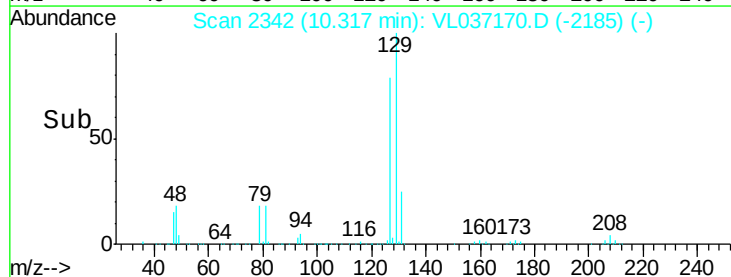
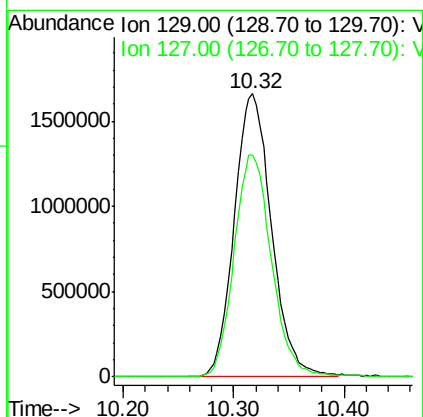
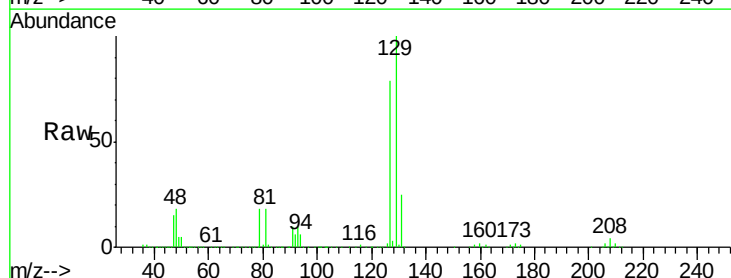
Manual Integrations
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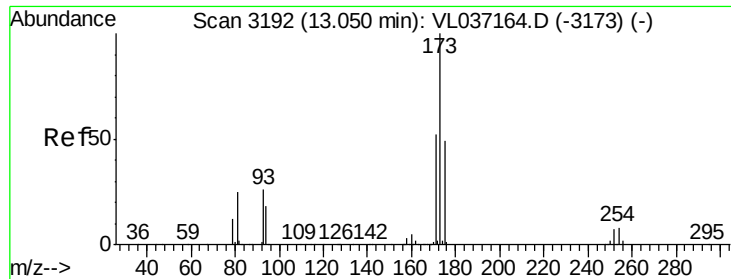
MMDadoda
 6/17/2021 5:37:26 PM



#48
 Dibromochloromethane
 Concen: 15.538 ppbv
 RT: 10.32 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.1	117.2





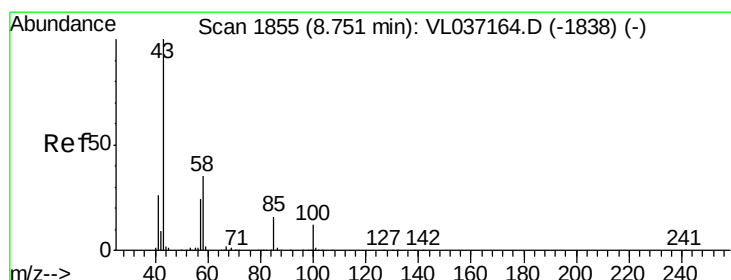
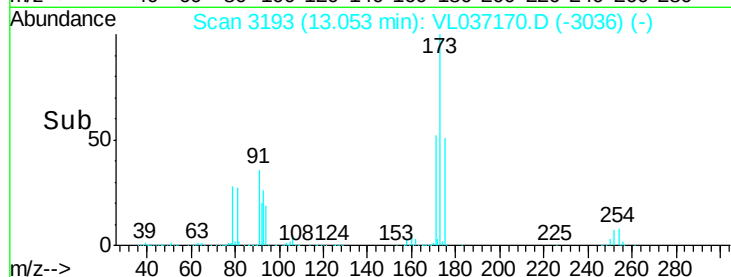
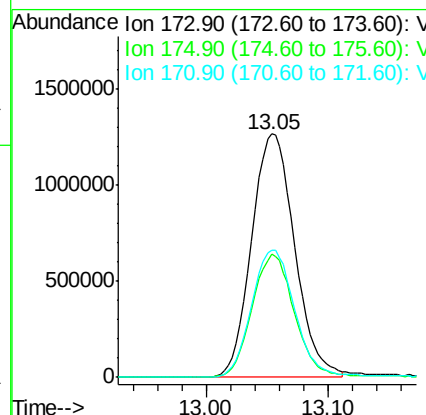
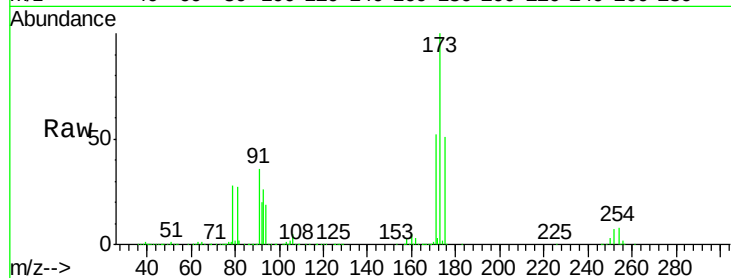
#49
Bromoform
Concen: 15.792 ppbv
RT: 13.05 min Scan# 3193
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 3085640
Ion Ratio Lower Upper
173 100
175 50.7 40.2 60.4
171 53.8 41.8 62.8

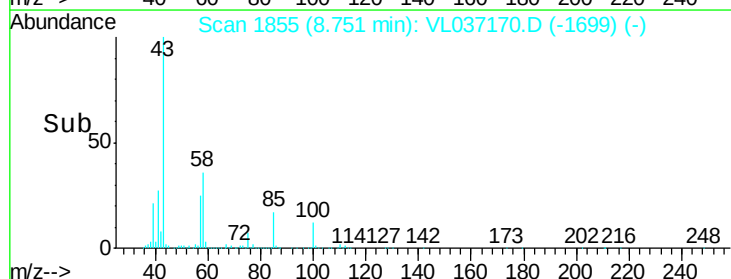
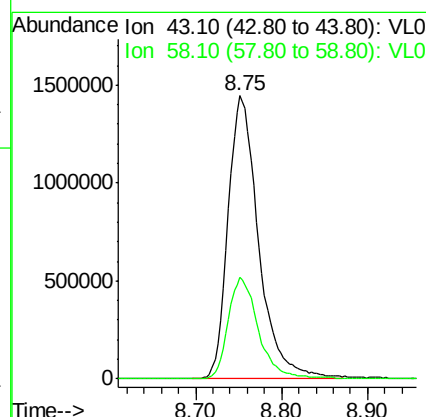
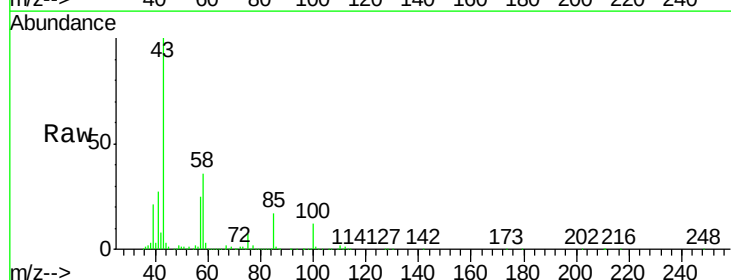
Manual Integrations
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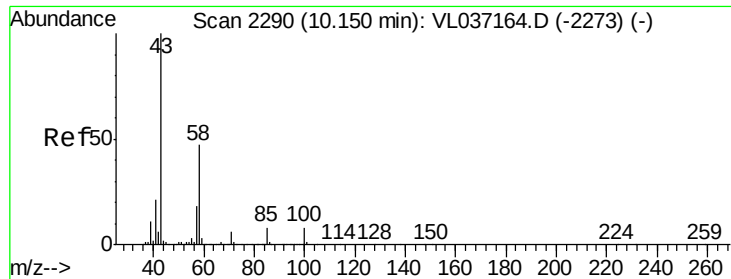
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 14.352 ppbv
RT: 8.75 min Scan# 1855
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion: 43 Resp: 3577572
Ion Ratio Lower Upper
43 100
58 35.7 28.4 42.6





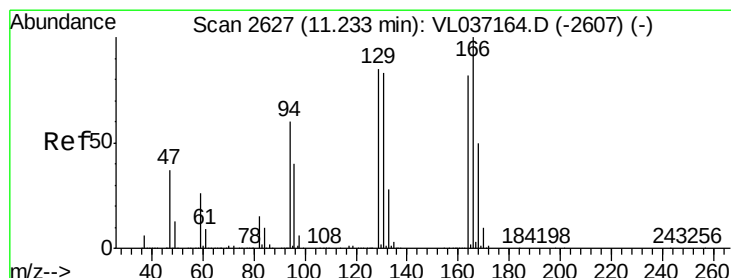
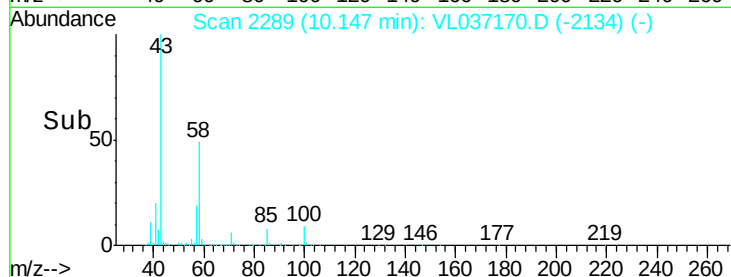
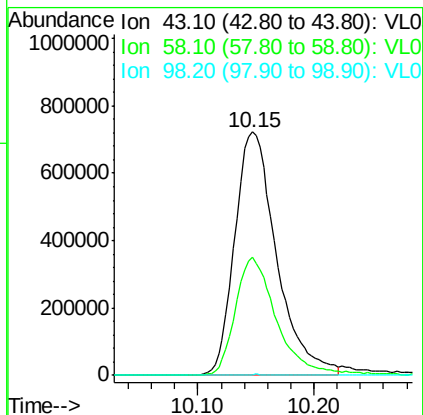
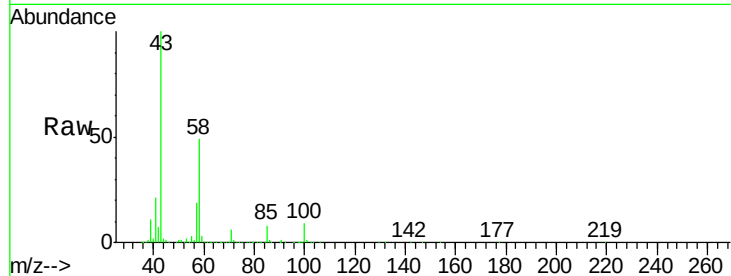
#51
2-Hexanone
Concen: 14.538 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. -0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1808862
Ion Ratio Lower Upper
43 100
58 48.5 38.4 57.6
98 0.2 0.3 0.5#

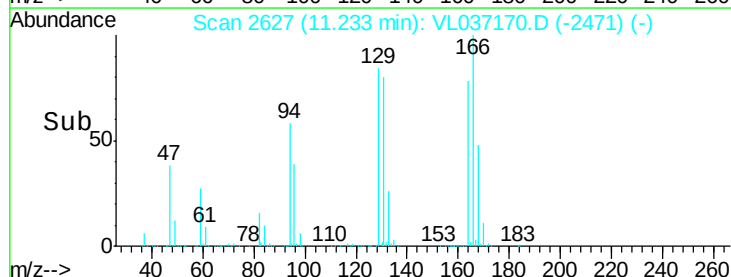
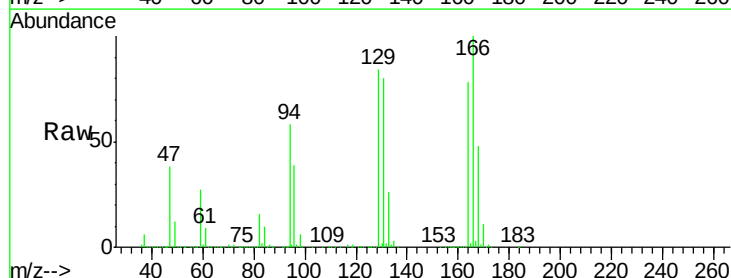
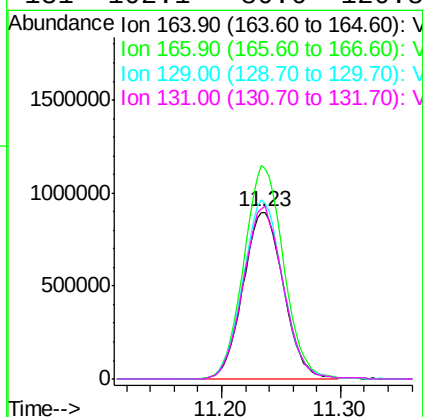
Manual Integrations
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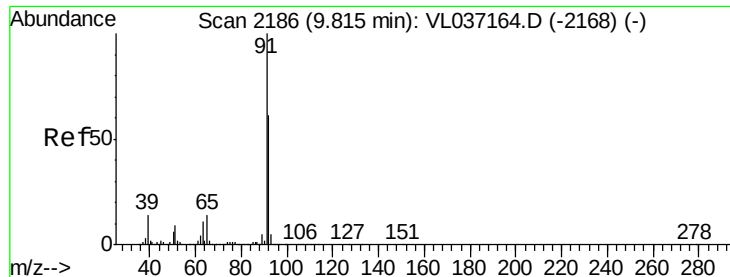
MMDadoda
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#52
Tetrachloroethene
Concen: 14.197 ppbv
RT: 11.23 min Scan# 2627
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion:164 Resp: 2102171
Ion Ratio Lower Upper
164 100
166 128.3 97.6 146.4
129 107.9 82.9 124.3
131 102.1 80.6 120.8





#53

Toluene

Concen: 14.147 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6020499

Ion Ratio Lower Upper

91 100

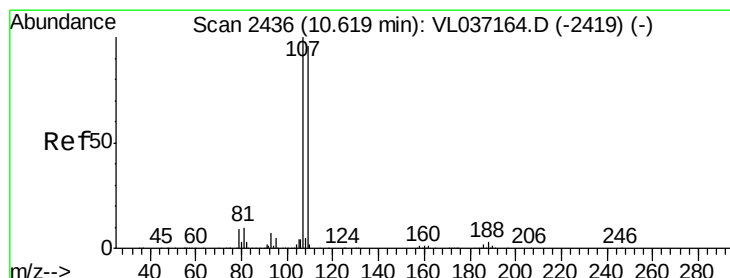
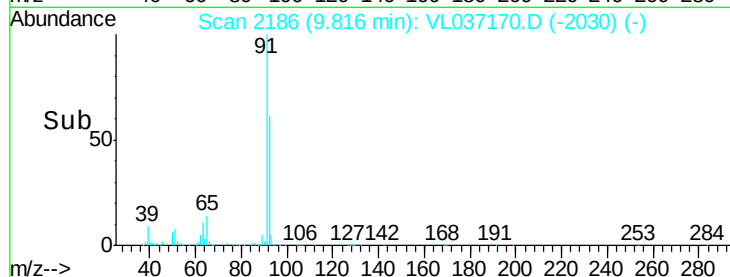
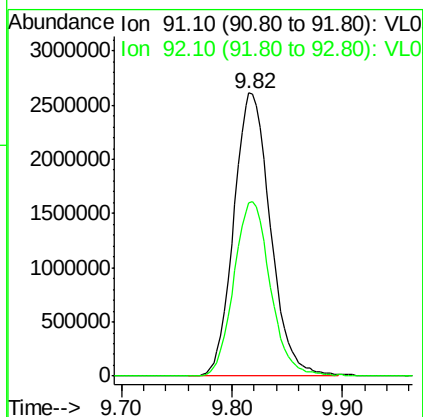
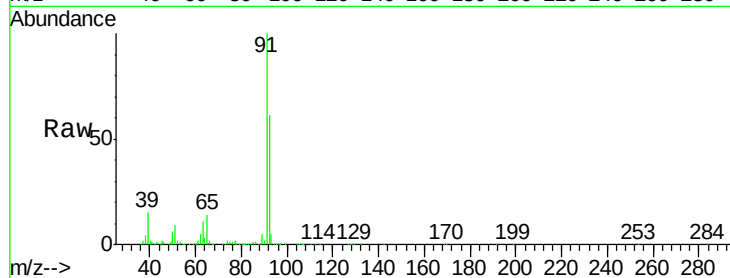
92 61.7 48.3 72.5

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 14.370 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL037170.D

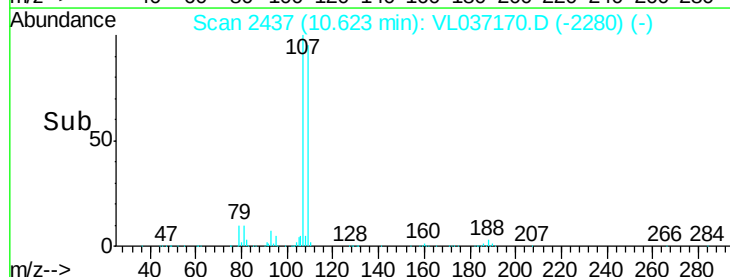
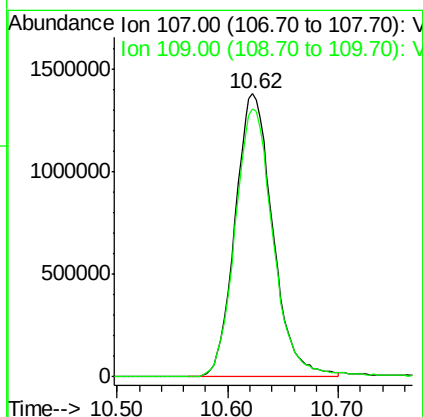
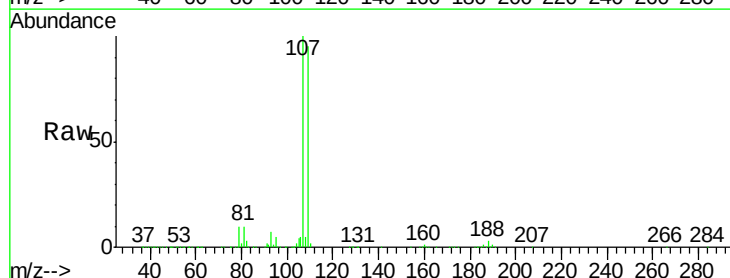
Acq: 16 Jun 2021 13:14

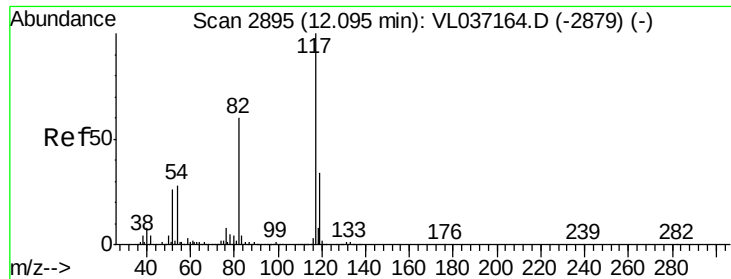
Tgt Ion: 107 Resp: 3262303

Ion Ratio Lower Upper

107 100

109 94.8 77.0 115.6





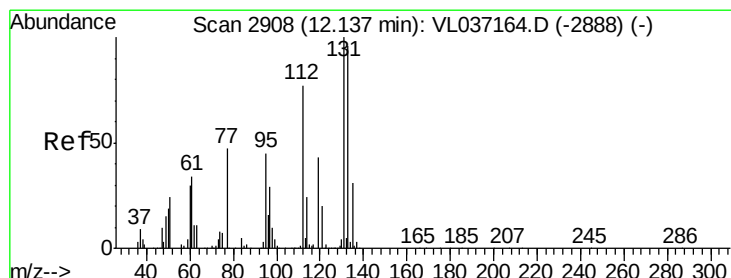
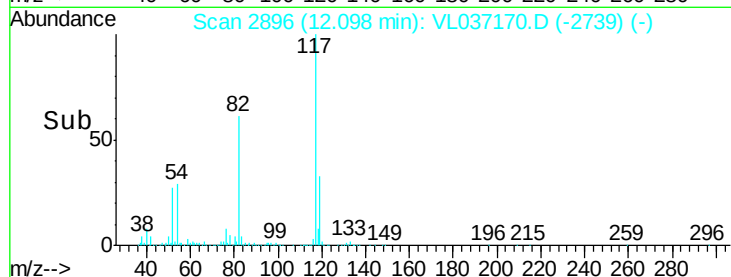
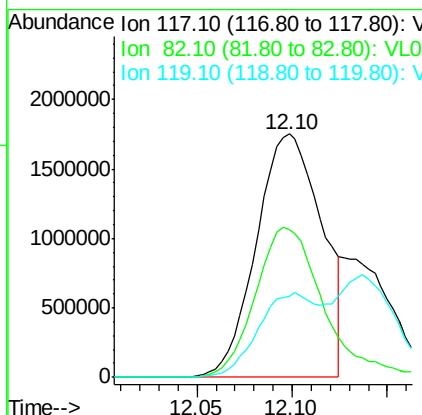
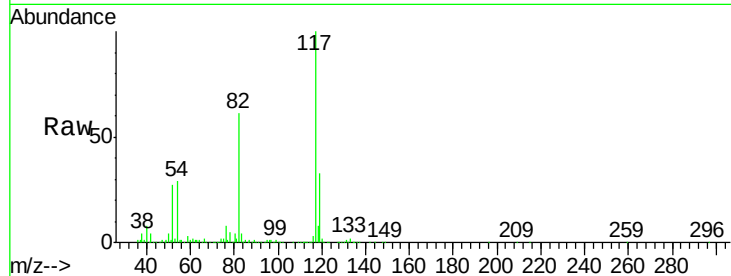
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.10 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4171051
Ion Ratio Lower Upper
117 100
82 65.4 51.7 77.5
119 72.1 47.6 71.4#

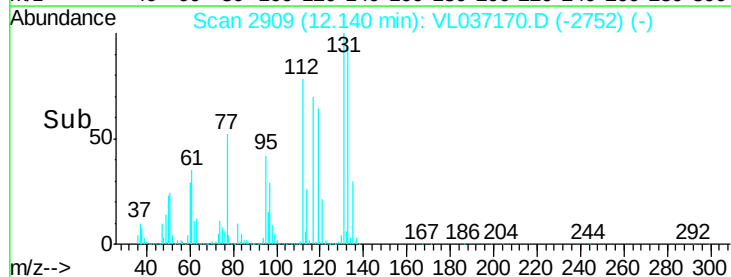
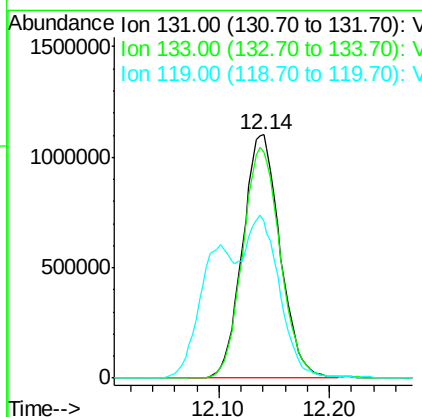
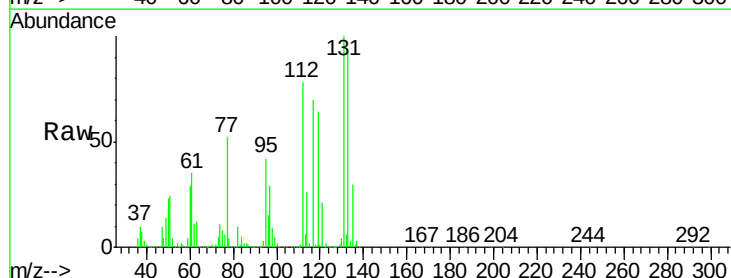
Manual Integrations
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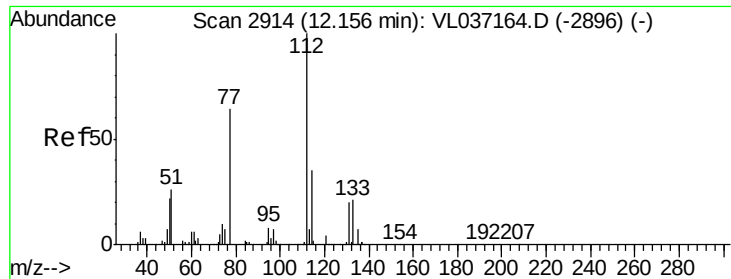
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.227 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion:131 Resp: 2588133
Ion Ratio Lower Upper
131 100
133 95.8 76.5 114.7
119 69.9 48.6 72.8





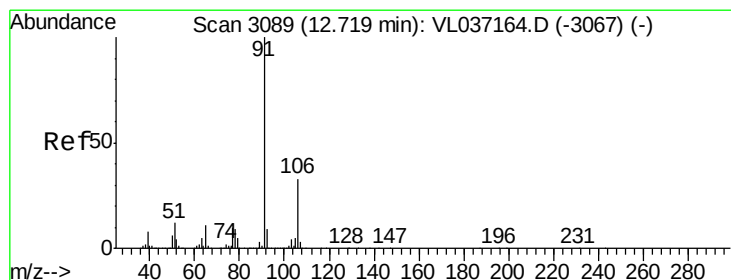
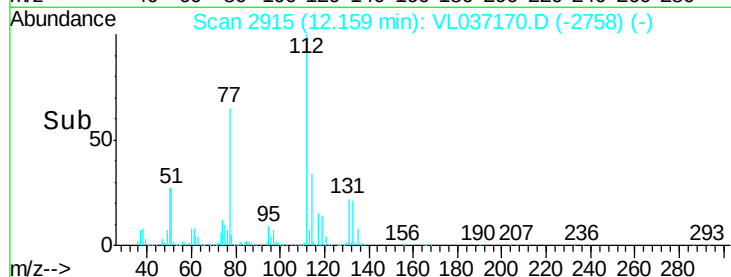
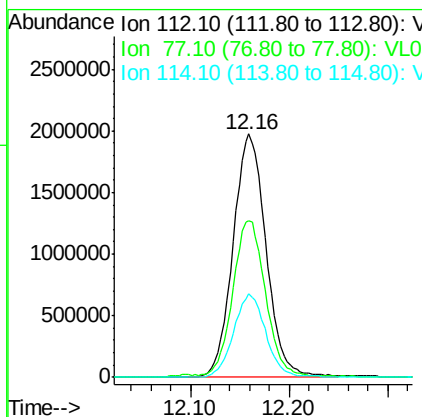
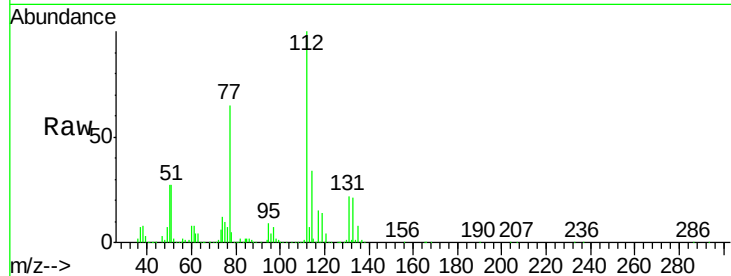
#57
Chlorobenzene
Concen: 13.758 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:112 Resp: 4598330
Ion Ratio Lower Upper
112 100
77 64.1 52.2 78.4
114 34.2 31.1 38.1

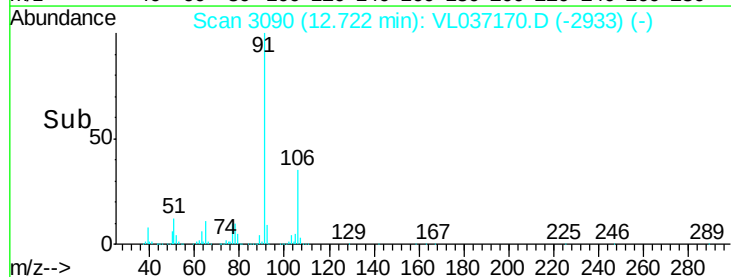
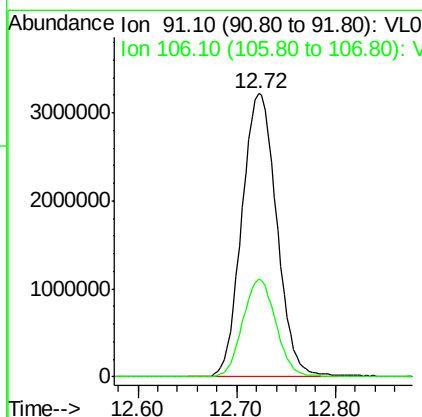
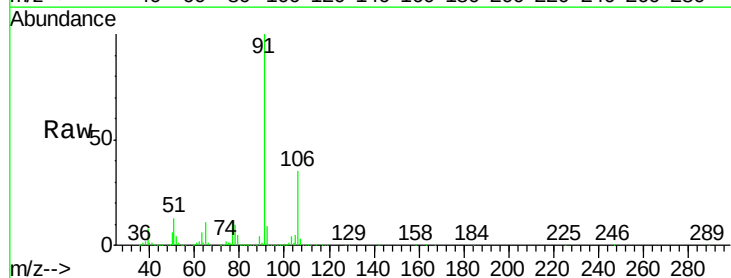
Manual Integrations
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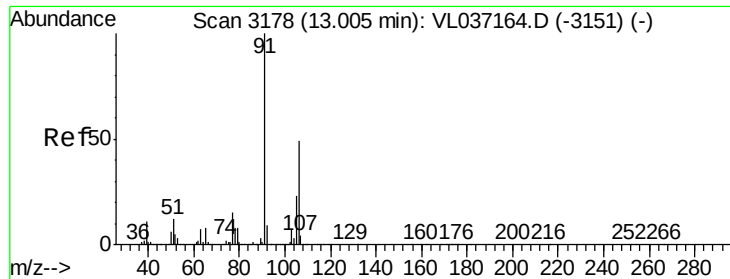
MMDadoda
6/17/2021 5:37:26 PM



#58
Ethyl Benzene
Concen: 13.897 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion: 91 Resp: 7851762
Ion Ratio Lower Upper
91 100
106 34.6 26.3 39.5





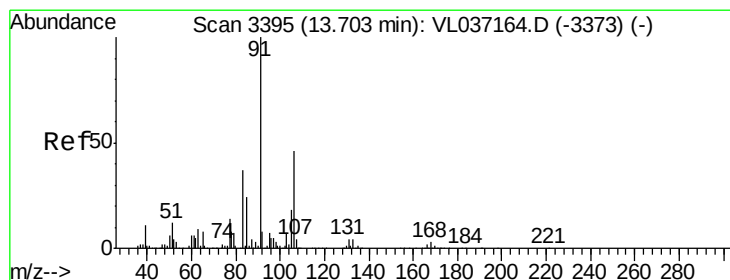
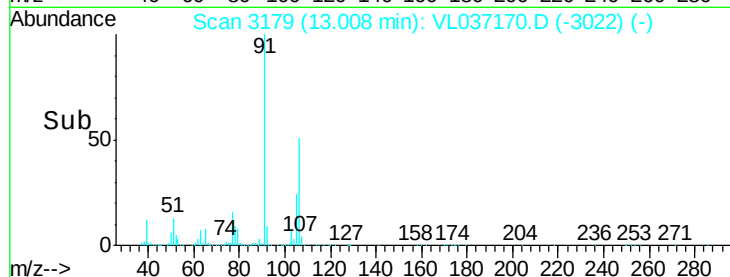
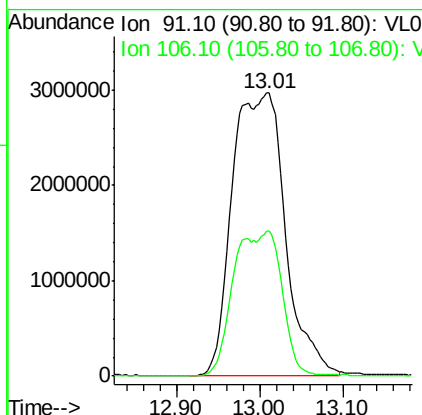
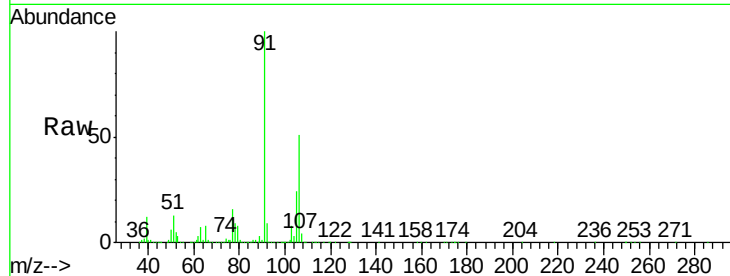
#59
m/p-Xylene
Concen: 27.375 ppbv m
RT: 13.01 min Scan# 3179
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:13143740
Ion Ratio Lower Upper
91 100
106 46.9 37.0 55.4

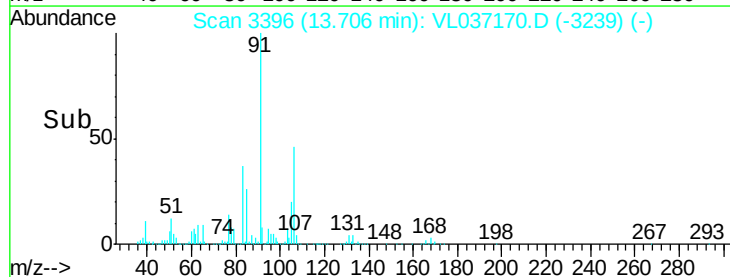
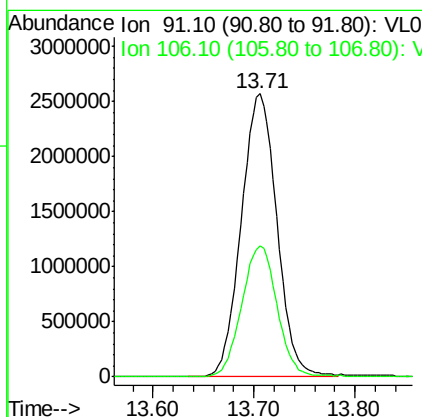
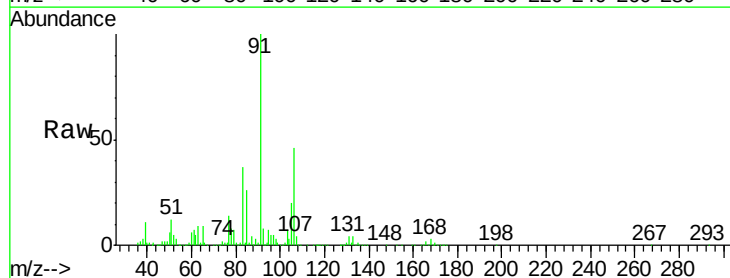
Manual Integrations
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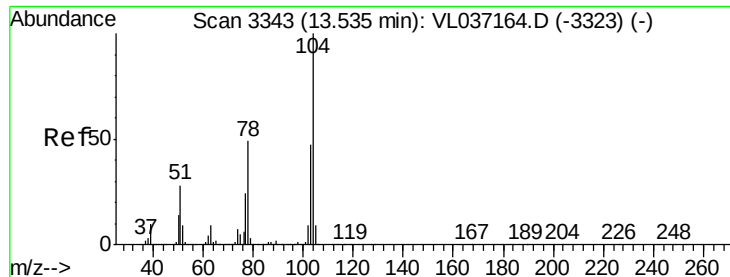
MMDadoda
6/17/2021 5:37:26 PM



#60
o-Xylene
Concen: 13.630 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion: 91 Resp: 6283436
Ion Ratio Lower Upper
91 100
106 46.4 23.0 69.0





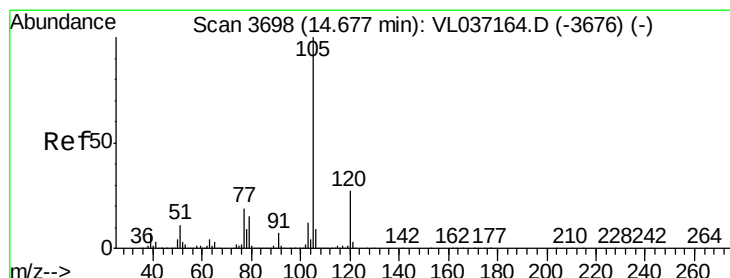
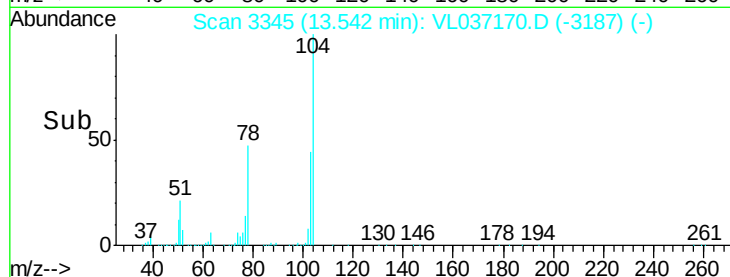
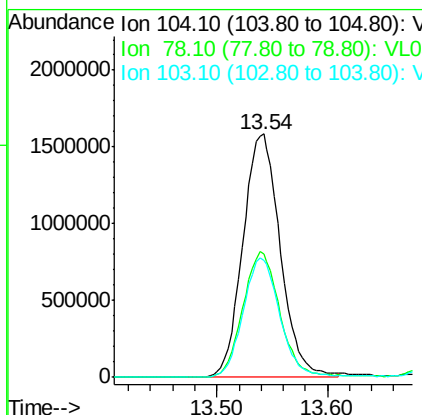
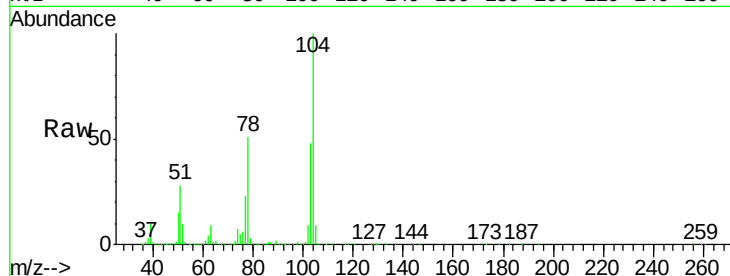
#61
Stvrene
Concen: 15.322 ppbv
RT: 13.54 min Scan# 3345
Delta R.T. 0.01 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.5	39.7	59.5
103	48.3	37.6	56.4

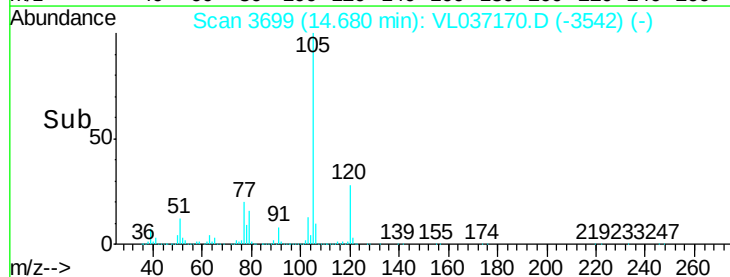
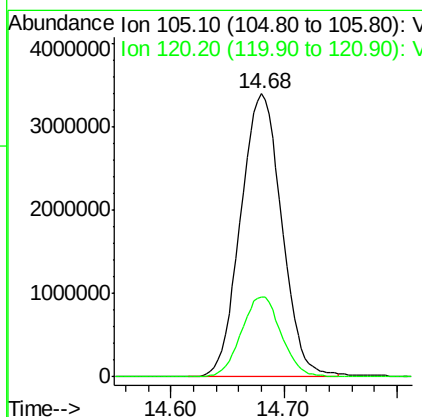
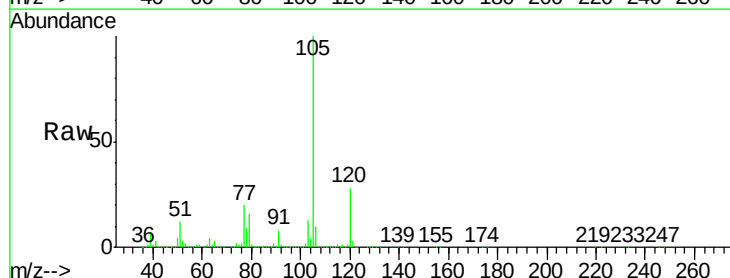
Manual Integrations
APPROVED

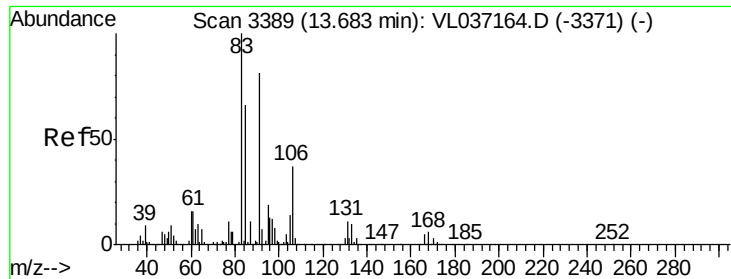
MMDadoda
6/17/2021 5:37:26 PM



#62
Isopropylbenzene
Concen: 13.061 ppbv
RT: 14.68 min Scan# 3699
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.8	21.6	32.4





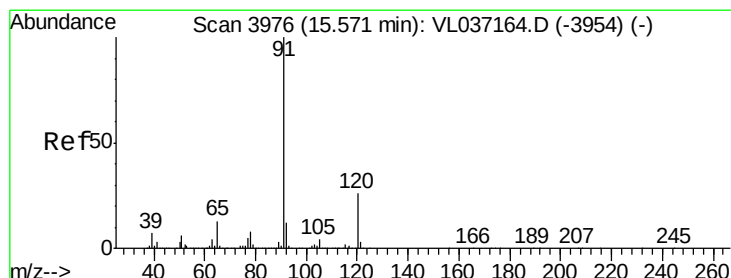
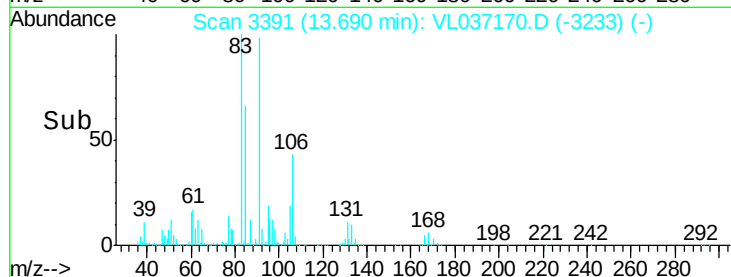
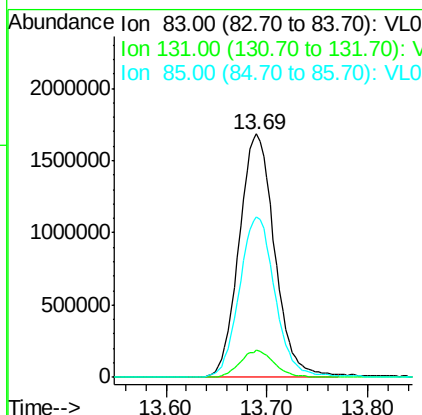
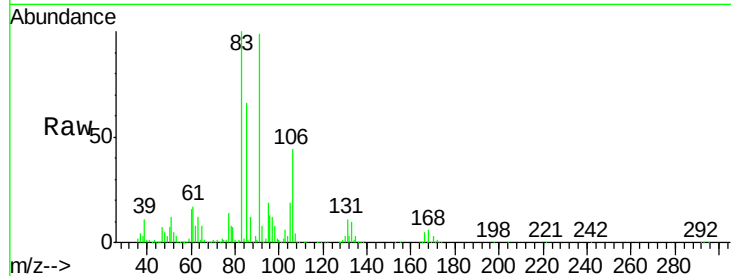
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.718 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. 0.01 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 4111695
 Ion Ratio Lower Upper
 83 100
 131 10.8 5.4 16.2
 85 66.9 33.1 99.2

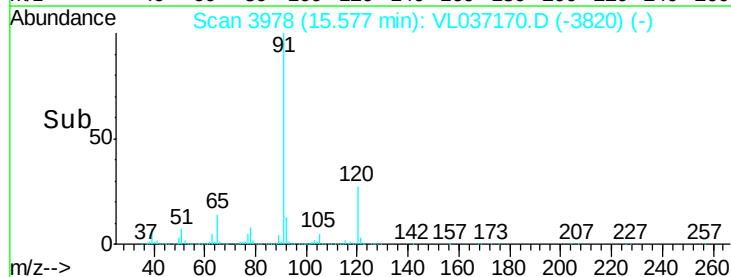
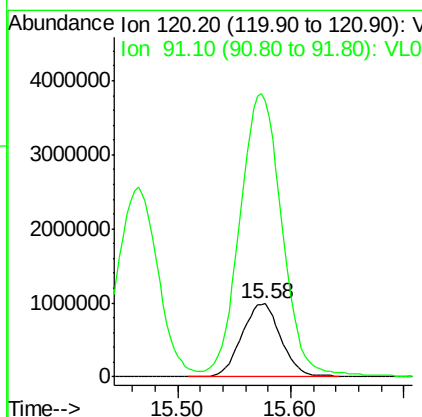
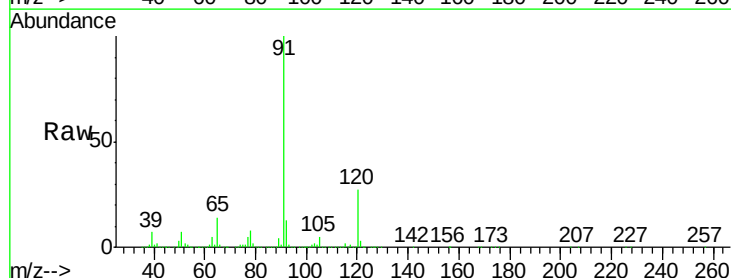
Manual Integrations
 APPROVED

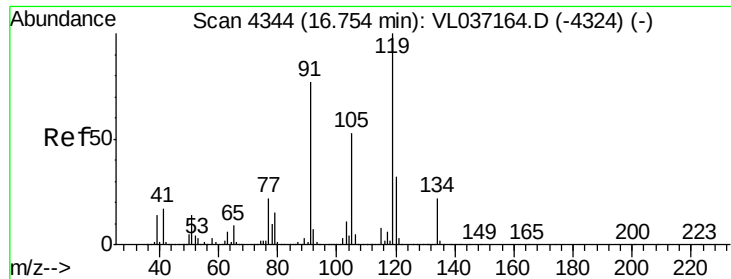
MMDadoda
 6/17/2021 5:37:26 PM



#64
 n-propylbenzene
 Concen: 14.259 ppbv
 RT: 15.58 min Scan# 3978
 Delta R.T. 0.01 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Tgt Ion:120 Resp: 2389583
 Ion Ratio Lower Upper
 120 100
 91 416.1 343.3 514.9





#65

tert-Butylbenzene

Concen: 12.843 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 7648171

Ion Ratio Lower Upper

119 100

91 79.5 62.6 93.8

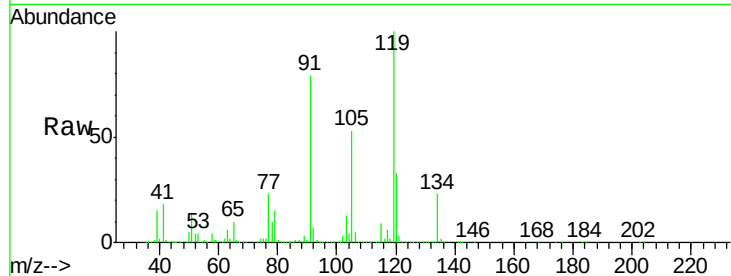
134 20.8 16.2 24.4

Manual Integrations

APPROVED

MMDadoda

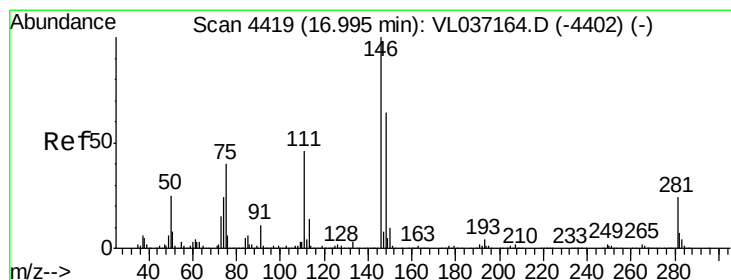
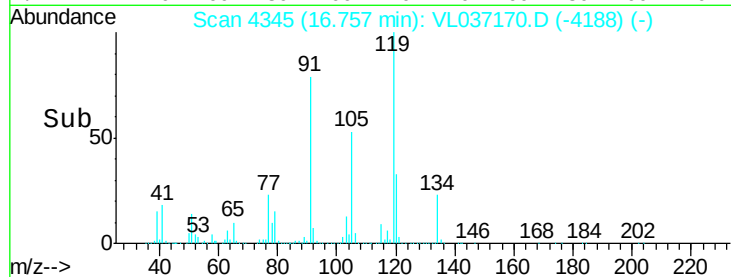
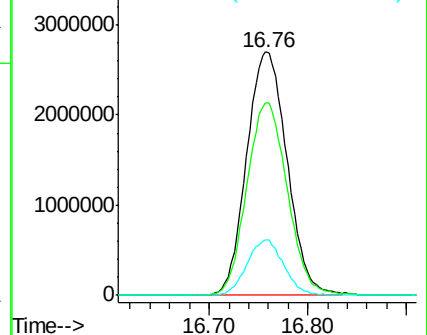
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 15.002 ppbv

RT: 17.00 min Scan# 4421

Delta R.T. 0.01 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

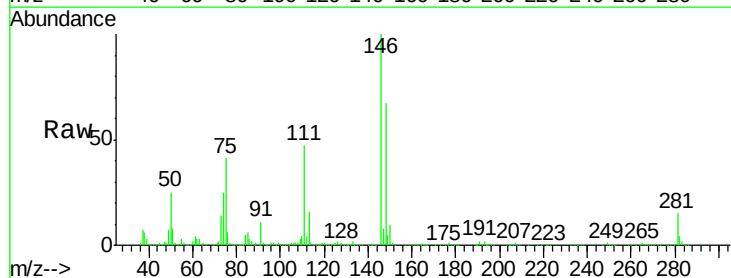
Tgt Ion: 91 Resp: 389938

Ion Ratio Lower Upper

91 100

126 18.2 15.5 23.3

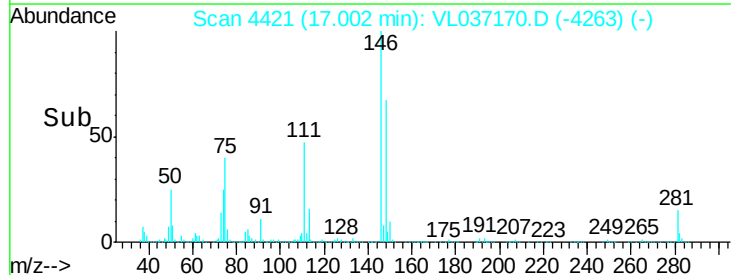
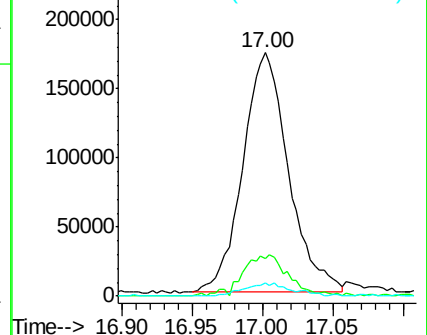
128 6.2 5.7 8.5

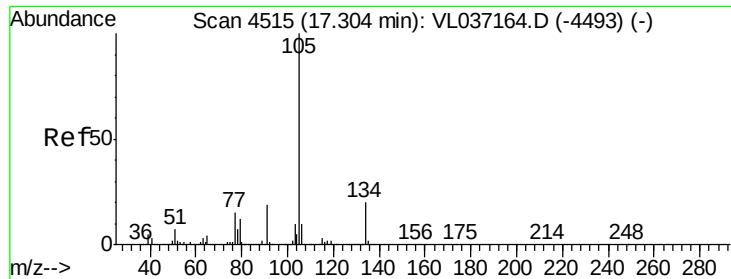


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 12.744 ppbv

RT: 17.31 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:10082826

Ion Ratio Lower Upper

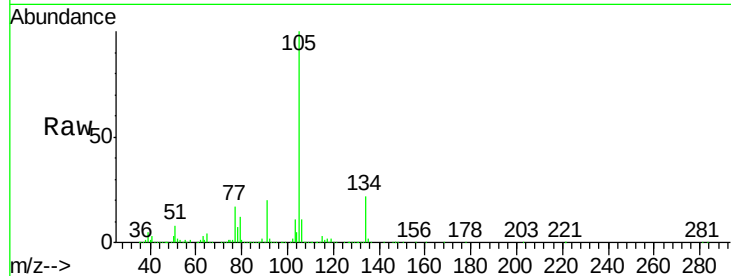
105 100

134 20.5 15.8 23.6

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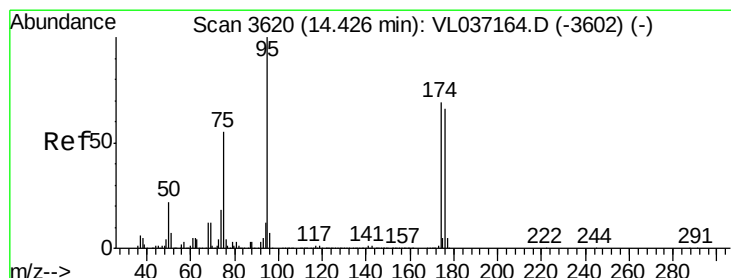
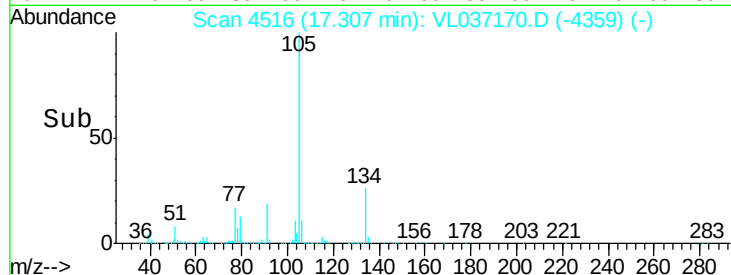
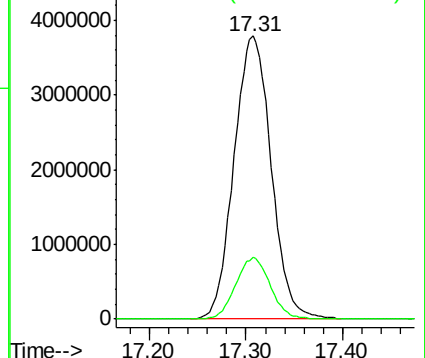
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.748 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

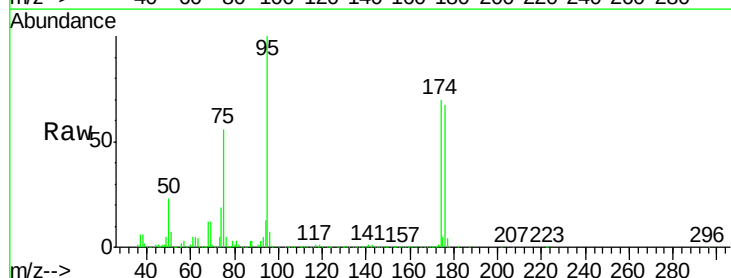
Tgt Ion: 95 Resp: 3301910

Ion Ratio Lower Upper

95 100

174 71.2 57.0 85.4

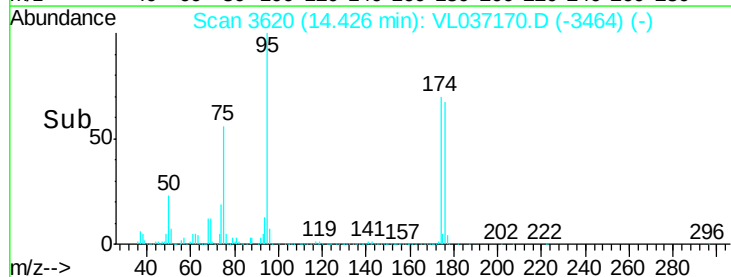
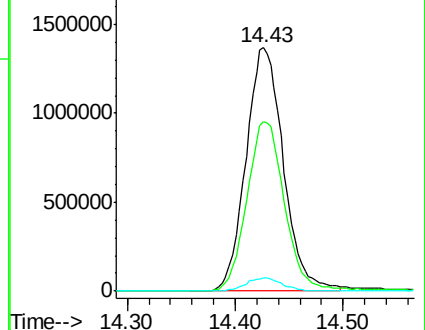
175 5.4 4.4 6.6

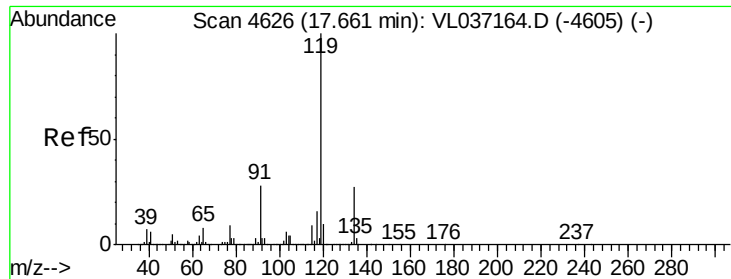


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





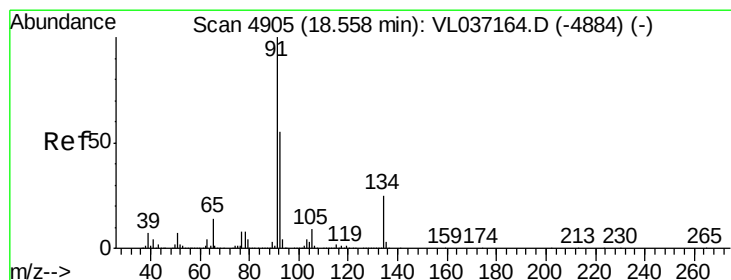
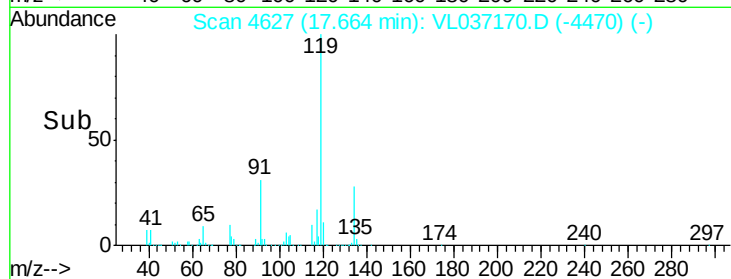
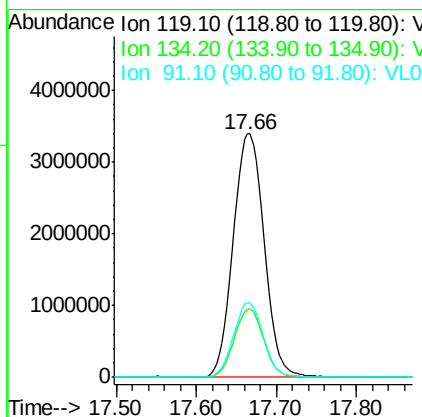
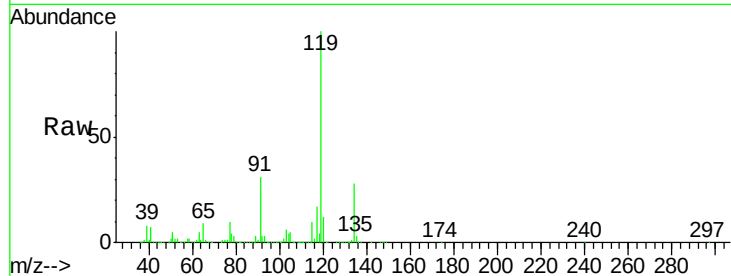
#69
 p-Isopropyltoluene
 Concen: 13.411 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.9	20.9	31.3
91	29.3	22.6	34.0

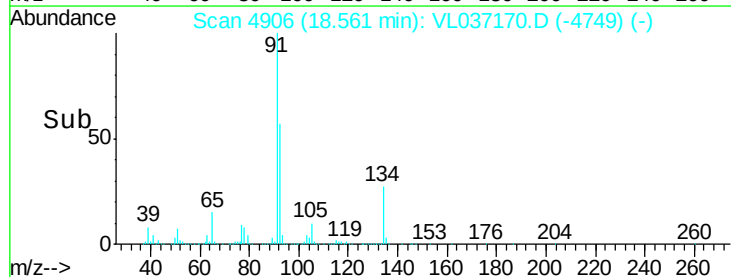
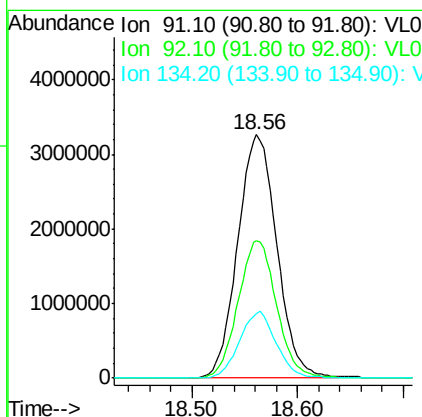
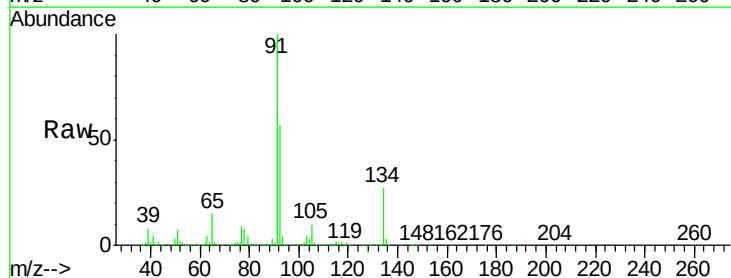
Manual Integrations
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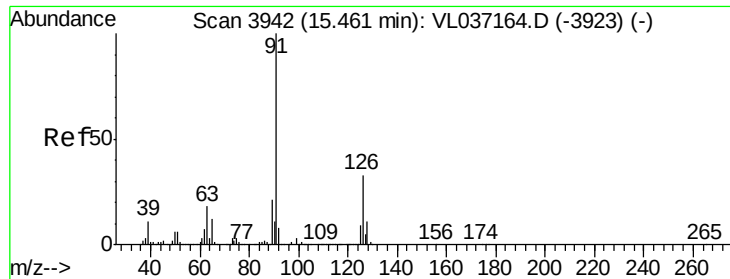
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 6/17/2021 5:37:26 PM



#70
 n-Butylbenzene
 Concen: 13.909 ppbv
 RT: 18.56 min Scan# 4906
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.0	66.0
134	25.9	20.2	30.4





#71

2-Chlorotoluene

Concen: 13.404 ppbv

RT: 15.46 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6282513

Ion Ratio Lower Upper

91 100

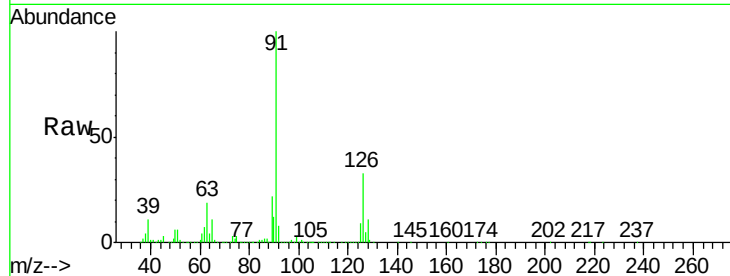
126 34.3 13.5 54.1

Manual Integrations

APPROVED

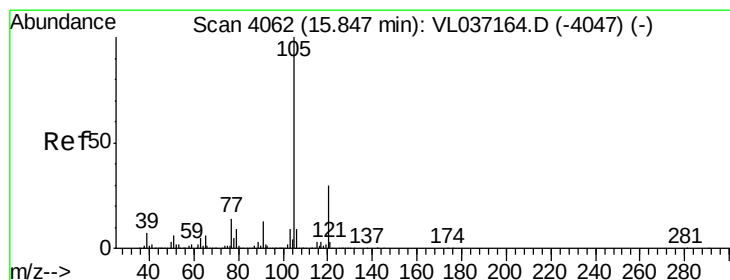
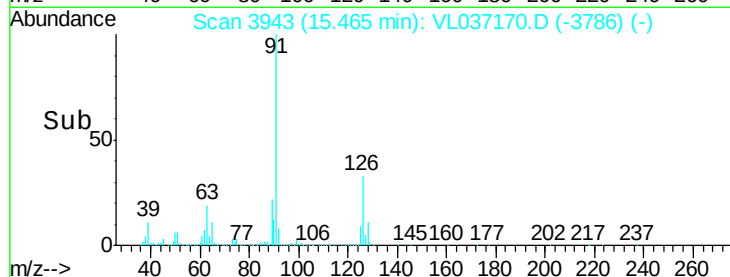
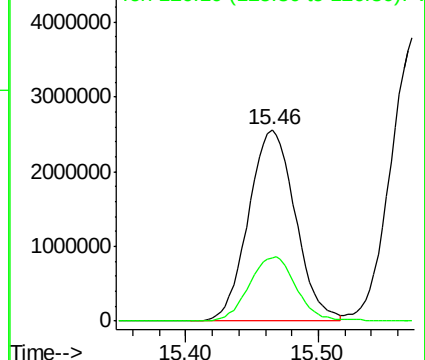
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 13.938 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Tgt Ion: 105 Resp: 7464074

Ion Ratio Lower Upper

105 100

120 31.7 24.7 37.1

91 13.1 10.2 15.4

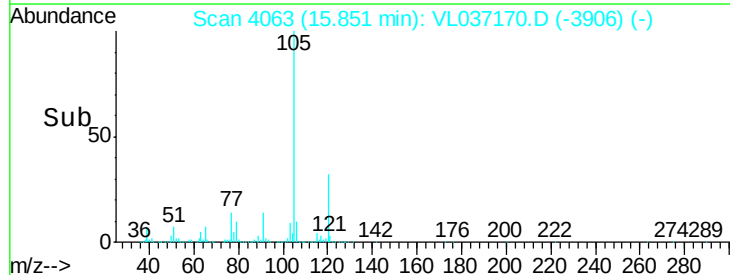
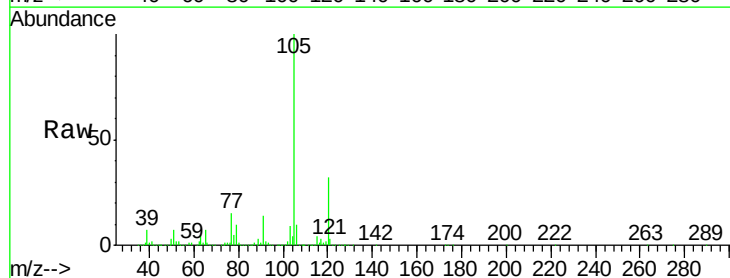
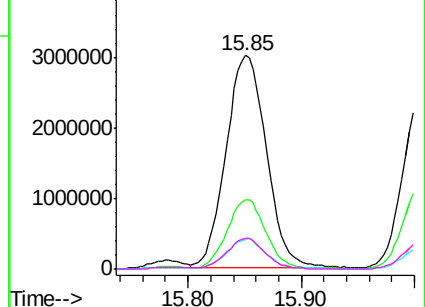
77 13.9 11.0 16.6

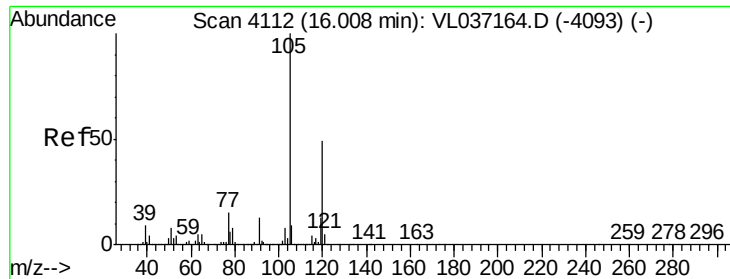
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 13.293 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 6751580

Ion Ratio Lower Upper

105 100

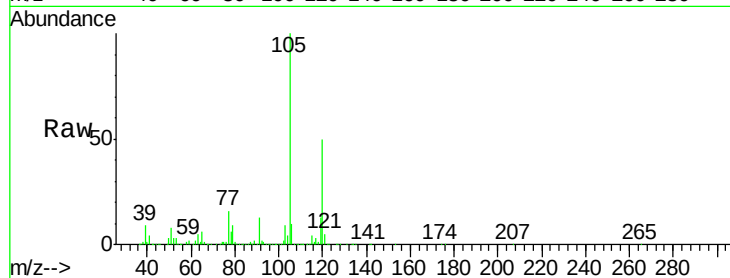
120 50.0

39.4 59.2

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

16.01

3000000

2500000

2000000

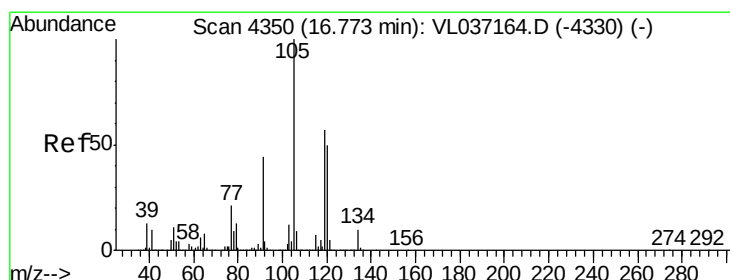
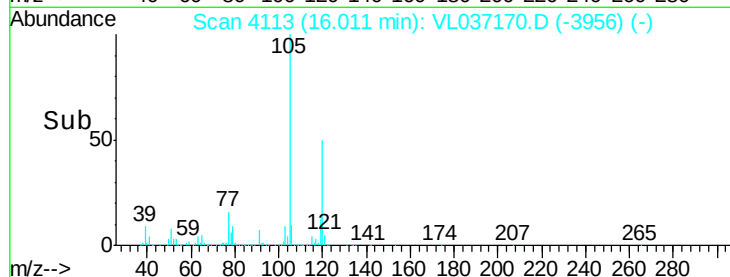
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 13.512 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Tgt Ion:105 Resp: 6983335

Ion Ratio Lower Upper

105 100

120 50.8

39.8 59.8

91 47.8

37.0 55.4

77 21.6

17.0 25.4

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

4000000

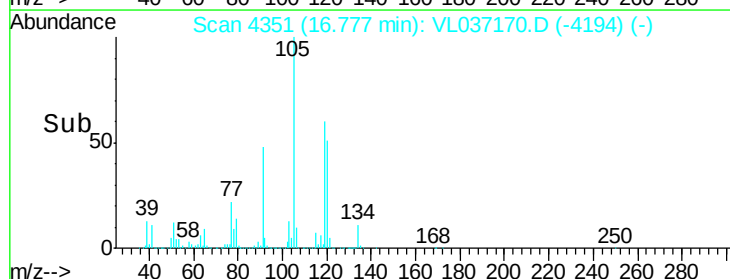
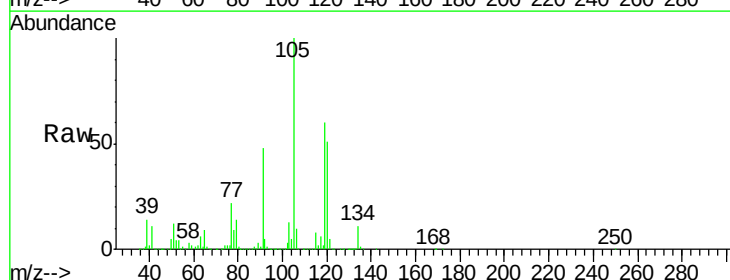
3000000

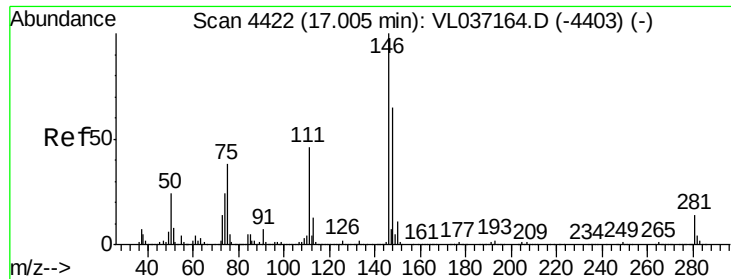
2000000

1000000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 13.560 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4314953

Ion Ratio Lower Upper

146 100

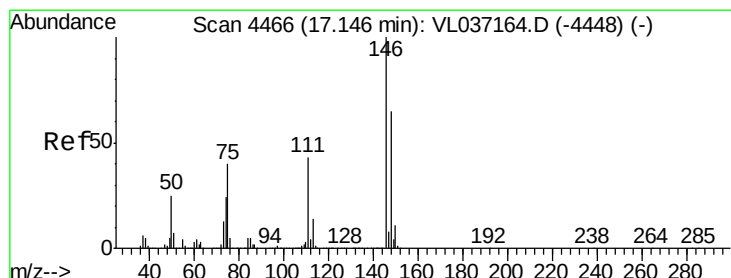
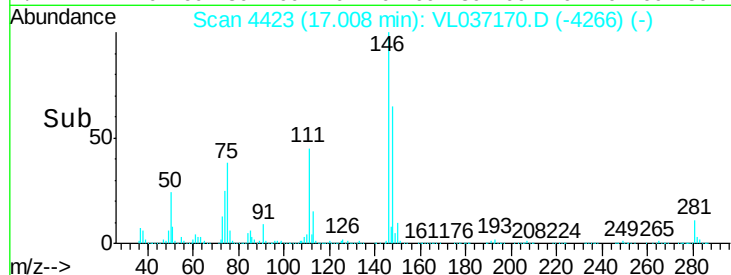
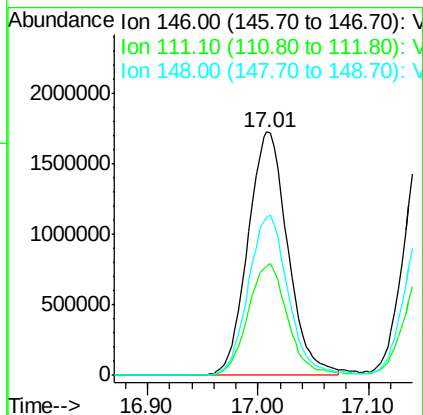
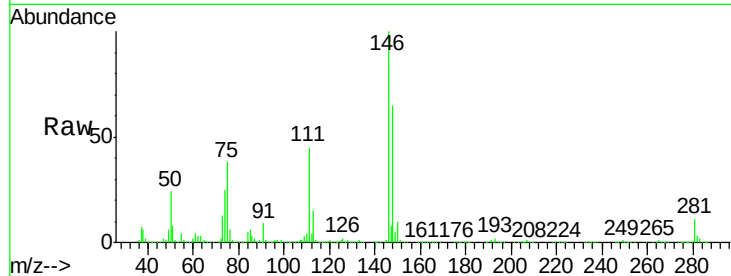
111 45.8 22.2 66.6

148 65.8 32.4 97.2

Manual Integrations
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MMDadoda

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#76

1,4-Dichlorobenzene

Concen: 13.542 ppbv

RT: 17.15 min Scan# 4467

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

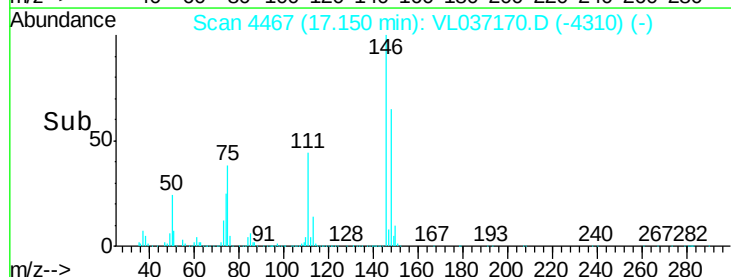
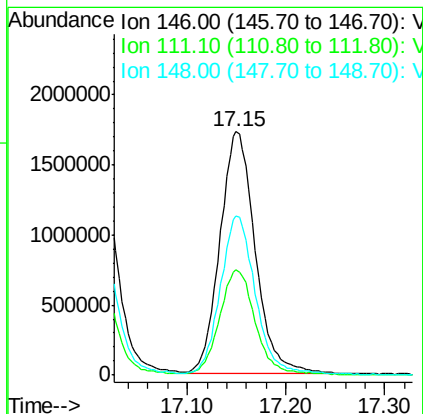
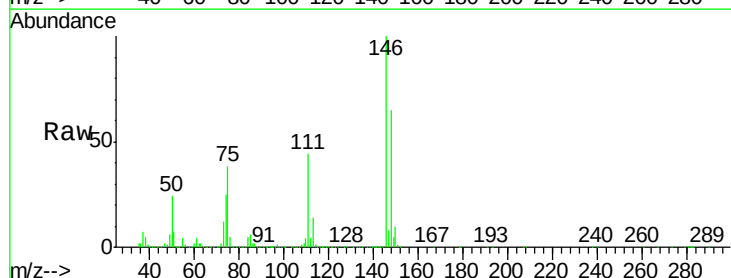
Tgt Ion:146 Resp: 4280012

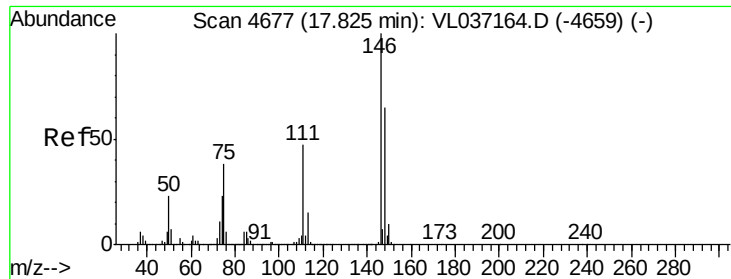
Ion Ratio Lower Upper

146 100

111 44.6 22.7 68.0

148 66.1 33.7 101.1





#77

1,2-Dichlorobenzene

Concen: 13.205 ppbv

RT: 17.83 min Scan# 4678

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion:146 Resp: 4143404

Ion Ratio Lower Upper

146 100

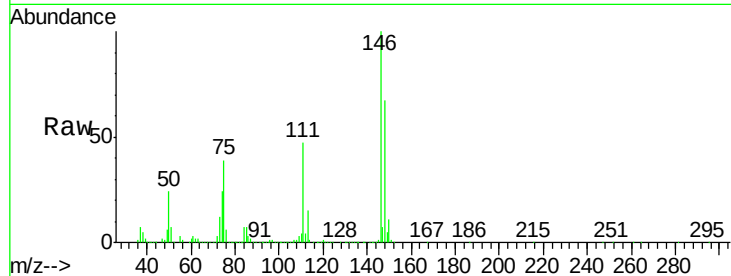
111 47.2 23.3 69.8

148 65.9 32.4 97.0

Manual Integrations
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MMDadoda

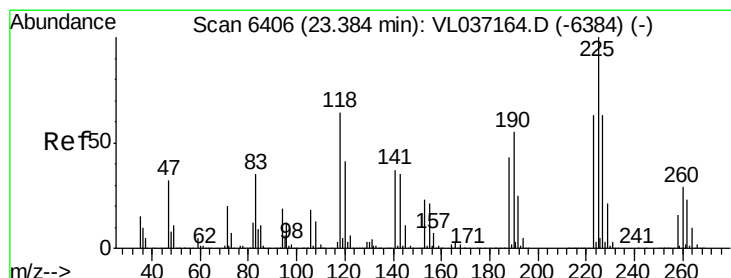
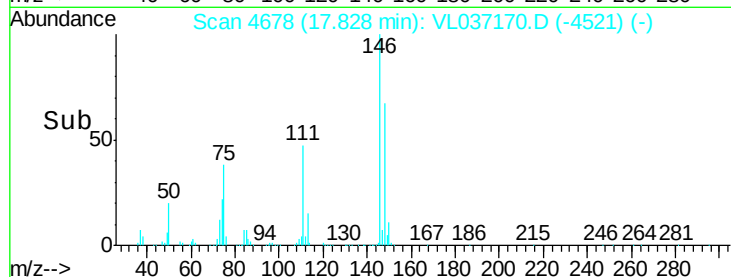
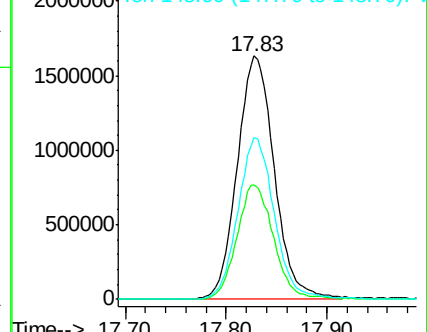
6/17/2021 5:37:26 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 14.192 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. 0.00 min

Lab File: VL037170.D

Acq: 16 Jun 2021 13:14

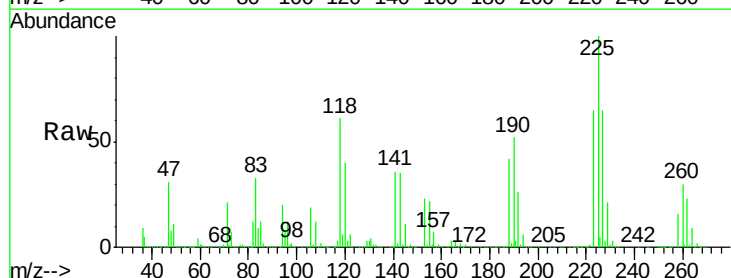
Tgt Ion:225 Resp: 3156611

Ion Ratio Lower Upper

225 100

223 64.8 51.8 77.8

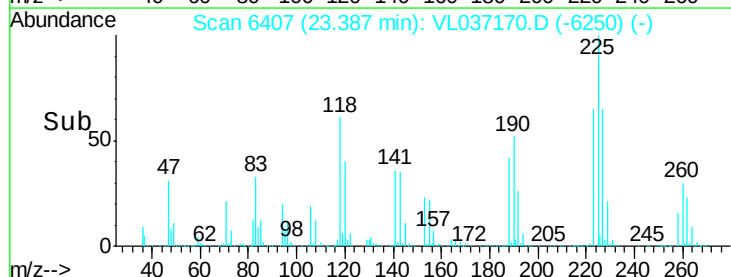
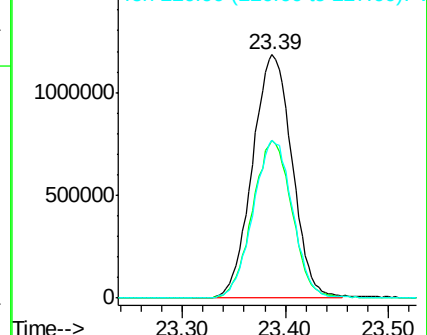
227 65.0 51.4 77.0

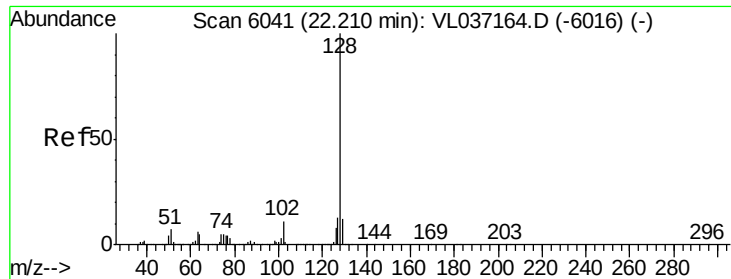


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





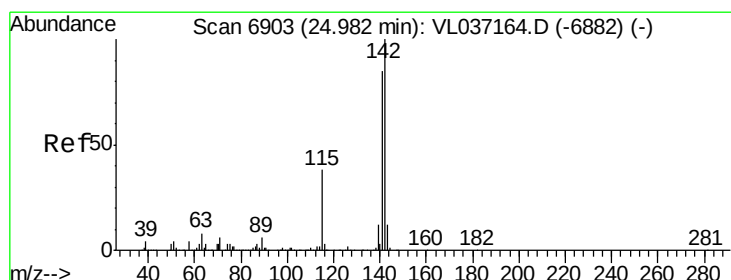
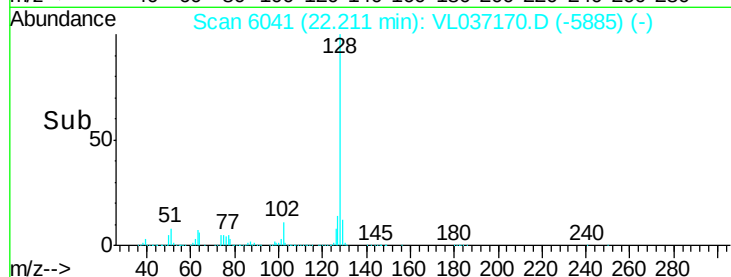
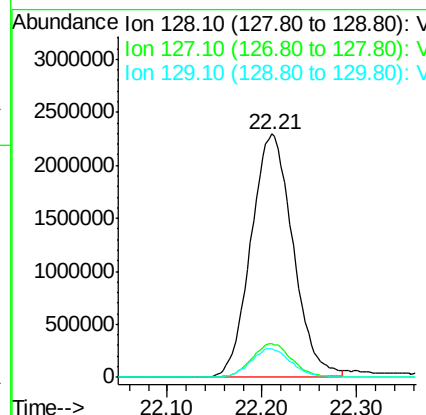
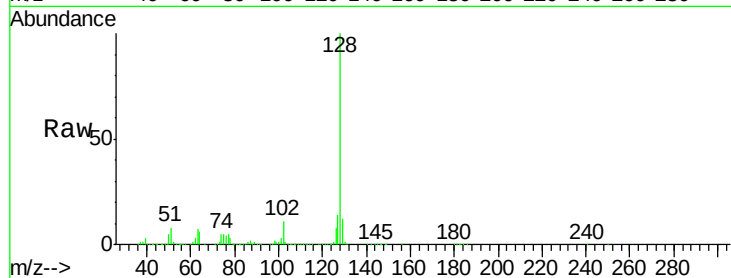
#79
Naphthalene
Concen: 22.784 ppbv
RT: 22.21 min Scan# 6041
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.7	16.1
129	11.5	9.3	13.9

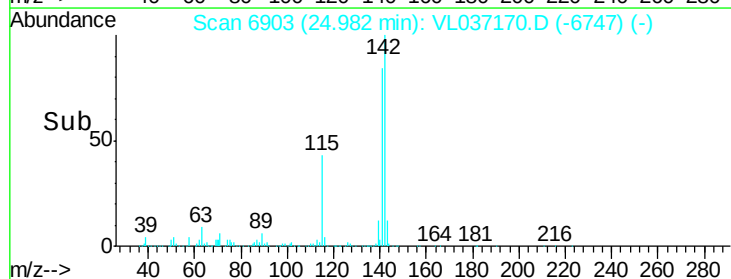
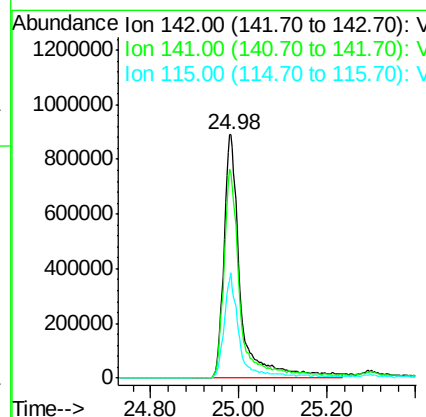
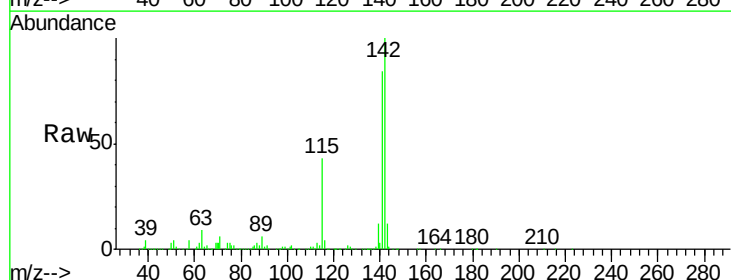
Manual Integrations
APPROVED

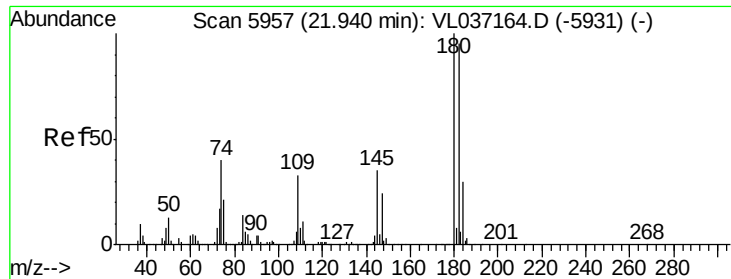
MMDadoda
6/17/2021 5:37:26 PM



#80
Naphthalene, 2-methyl-
Concen: 31.072 ppbv
RT: 24.98 min Scan# 6903
Delta R.T. 0.00 min
Lab File: VL037170.D
Acq: 16 Jun 2021 13:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.8	63.7	95.5
115	41.4	30.6	45.8





#81
 1,2,4-Trichlorobenzene
 Concen: 18.841 ppbv
 RT: 21.94 min Scan# 5957
 Delta R.T. 0.00 min
 Lab File: VL037170.D
 Acq: 16 Jun 2021 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.5	79.3	118.9
184	32.1	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 6/17/2021 5:37:26 PM

