

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080520\
 Data File : VL035339.D
 Acq On : 5 Aug 2020 12:32
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/6/2020 12:49:02 PM

Quant Time: Aug 05 13:02:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05
 QLast Update : Wed Aug 05 09:32:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1440781	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3539467	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3587761	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2893564	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	2036372	10.803	ppbv 100
3) Chlorodifluoromethane	2.94	51	2025581	12.233	ppbv 99
4) Chloromethane	3.09	50	1179366	12.473	ppbv 99
5) Vinyl Chloride	3.21	62	1198840	13.023	ppbv 96
6) Bromomethane	3.43	94	767121	12.668	ppbv 99
7) Chloroethane	3.52	64	471477	12.883	ppbv 96
8) Dichlorotetrafluoroethane	3.14	85	2687666	11.820	ppbv 100
9) Propene	2.96	41	836372	13.979	ppbv 98
10) Heptane	8.13	43	2433768	15.849	ppbv 98
11) Trichlorofluoromethane	3.91	101	3050056	12.388	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	2198672	12.811	ppbv 100
13) Ethanol	3.56	45	220104	9.958	ppbv 94
14) Bromoethene	3.70	108	972046	13.754	ppbv 99
15) Acetone	3.81	43	2326593	11.167	ppbv 99
16) 1,3-Butadiene	3.28	39	1122167	14.443	ppbv 98
17) tert-Butyl alcohol	4.26	59	2487042	13.106	ppbv 99
18) 1,1-Dichloroethene	4.26	96	1022345	13.233	ppbv 89
19) Isopropyl Alcohol	3.93	45	1670009	12.761	ppbv 99
20) Methylene Chloride	4.31	84	921032	9.679	ppbv 96
21) Allyl Chloride	4.38	41	1623831	13.762	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	1009999	13.177	ppbv 97
23) Vinyl Acetate	5.05	43	2991817	14.492	ppbv 99
24) 1,1-Dichloroethane	4.99	63	2394787	12.466	ppbv 99
25) Ethyl Acetate	5.66	43	4250235	13.496	ppbv 100
26) Hexane	5.67	57	1929882	13.687	ppbv 98
27) Carbon Disulfide	4.52	76	2628772	13.856	ppbv 100
28) Methyl tert-Butyl Ether	5.01	73	2863134	13.512	ppbv 99
29) Chloroform	5.74	83	2990321	12.538	ppbv 98
30) Cyclohexane	7.13	84	1629666	15.408	ppbv 98
31) cis-1,2-Dichloroethene	5.54	61	1894046	14.561	ppbv 95
32) 1,1,1-Trichloroethane	6.51	97	3033199	13.152	ppbv 100
34) 2-Butanone	5.22	43	2631453	14.121	ppbv 99
35) Carbon Tetrachloride	7.02	117	3221214	14.073	ppbv 98
36) Benzene	6.89	78	3717450	14.325	ppbv 98
37) 1,2-Dichloroethane	6.30	62	2356309	13.405	ppbv 99
38) Trichloroethene	7.84	130	1636364	17.161	ppbv 98
39) 1,2-Dichloropropane	7.62	63	1468727	14.362	ppbv 97
40) 1,4-Dioxane	7.83	88	590819	13.302	ppbv 92
41) Tetrahydrofuran	6.04	42	1444823	15.718	ppbv 100
42) Bromodichloromethane	7.80	83	3288213	13.710	ppbv 97
43) Methyl Methacrylate	8.02	69	1749026	16.132	ppbv 100

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Quant Time: Aug 05 13:02:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 2020
 QLast Update : Wed Aug 05 09:32:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	6340454	14.263	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	2008696	17.357	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	2342417	16.906	ppbv	100
47) 1,1,2-Trichloroethane	9.49	97	1672295	14.089	ppbv	98
48) Dibromochloromethane	10.33	129	2942513	15.237	ppbv	100
49) Bromoform	13.08	173	2734456	16.255	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	4169206	15.841	ppbv	99
51) 2-Hexanone	10.15	43	3471077	17.045	ppbv #	99
52) Tetrachloroethene	11.25	164	1482598	16.218	ppbv	98
53) Toluene	9.82	91	4549330	16.672	ppbv	99
54) 1,2-Dibromoethane	10.64	107	2600663	14.801	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	2235706	13.278	ppbv #	90
57) Chlorobenzene	12.18	112	3657682	13.321	ppbv	96
58) Ethyl Benzene	12.74	91	6082794	15.475	ppbv	100
59) m/p-Xylene	13.02	91	10508783m	28.973	ppbv	
60) o-Xylene	13.73	91	5164520	14.403	ppbv	99
61) Styrene	13.56	104	3794377	17.210	ppbv	99
62) Isopropylbenzene	14.70	105	7546651	13.952	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	3753400	13.345	ppbv	98
64) n-propylbenzene	15.60	120	2174210	15.365	ppbv	89
65) tert-Butylbenzene	16.78	119	6982256	14.415	ppbv	99
66) Benzyl Chloride	17.03	91	3051913	16.297	ppbv	99
67) sec-Butylbenzene	17.34	105	9498727	13.870	ppbv	98
69) p-Isopropyltoluene	17.69	119	8172928	14.425	ppbv	98
70) n-Butylbenzene	18.59	91	8424076	13.821	ppbv	97
71) 2-Chlorotoluene	15.49	91	5990333	14.838	ppbv	99
72) 4-Ethyltoluene	15.88	105	6250889	15.450	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	5920952	14.940	ppbv	97
74) 1,2,4-Trimethylbenzene	16.81	105	6134918	13.501	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	3787675	13.400	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	3735758	13.962	ppbv	98
77) 1,2-Dichlorobenzene	17.86	146	3657513	14.031	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	2998141	14.166	ppbv	99
79) Naphthalene	22.26	128	6216075	17.284	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	2569170	24.329	ppbv	98
81) 1,2,4-Trichlorobenzene	21.99	180	3494863	15.974	ppbv	100

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

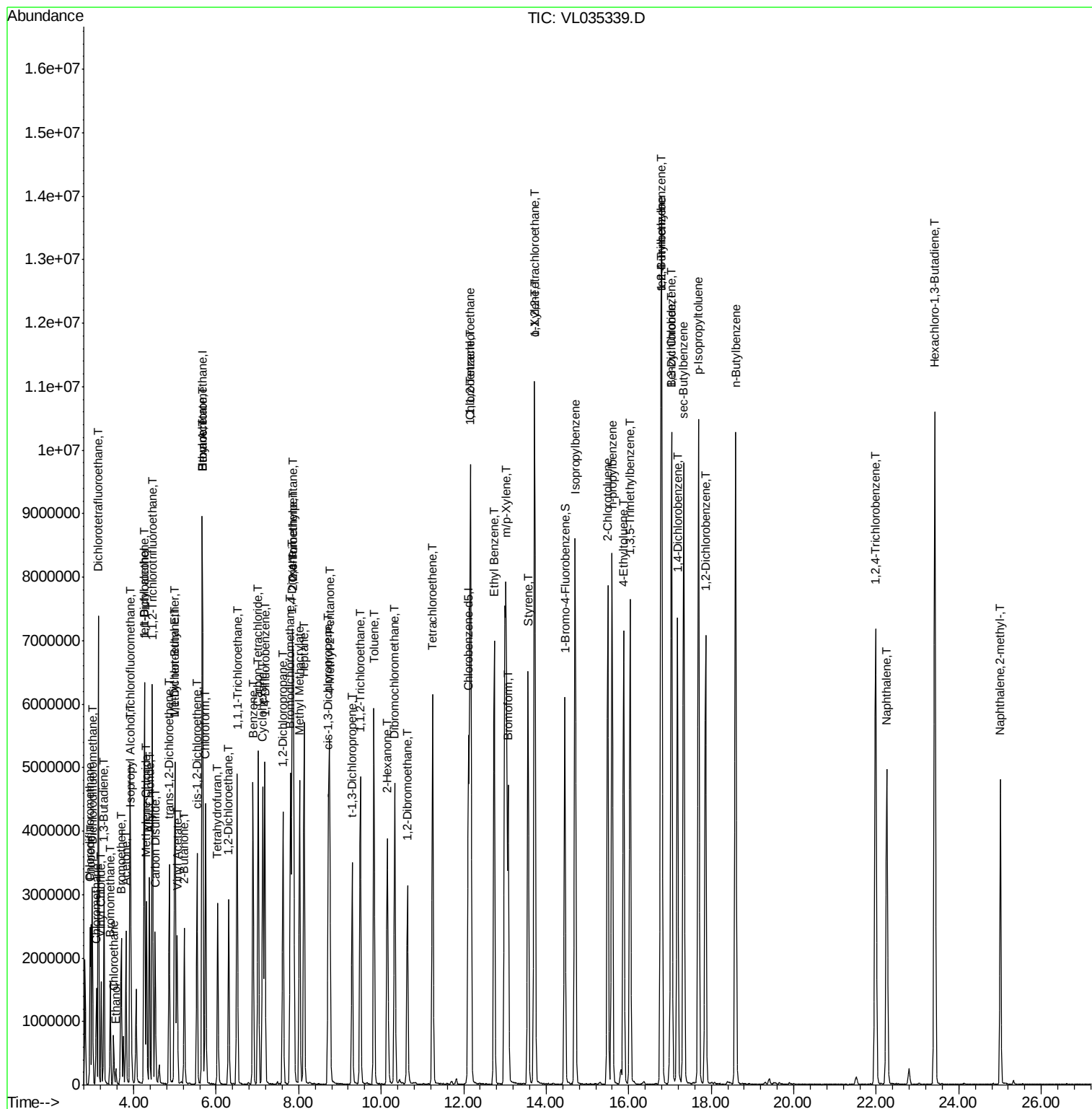
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080520\
Data File : VL035339.D
Acq On : 5 Aug 2020 12:32
Operator : SY/AP
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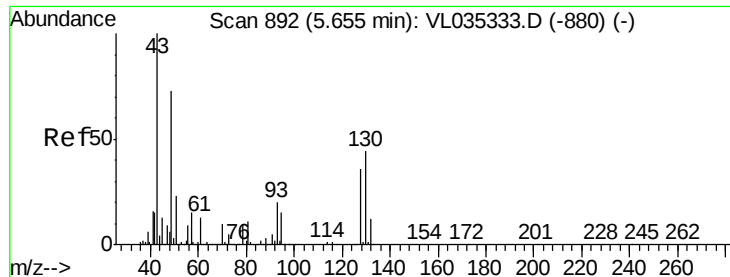
Instrument :
MSVOA_L
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8/6/2020 12:49:02 PM

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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Aug
QLast Update : Wed Aug 05 09:32:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1440781

Ion Ratio Lower Upper

49 100

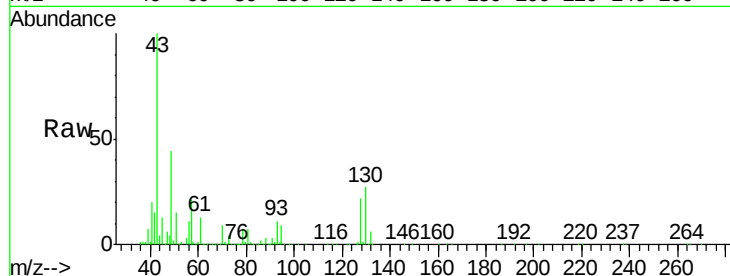
128 49.1 25.4 76.0

130 62.7 32.1 96.3

Manual Integrations
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8/6/2020 12:49:02 PM

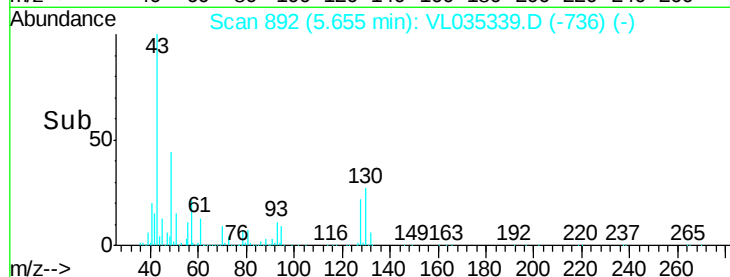


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

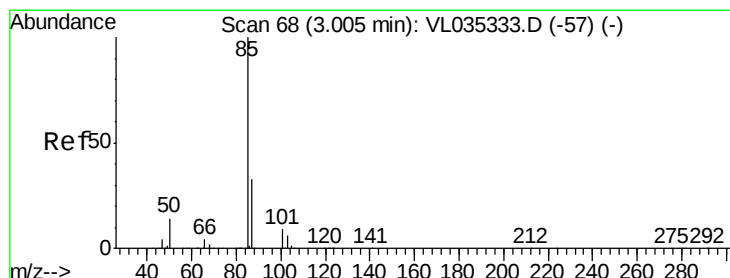
Ion 130.00 (129.70 to 130.70): VL0

Time-->



5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 10.803 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035339.D

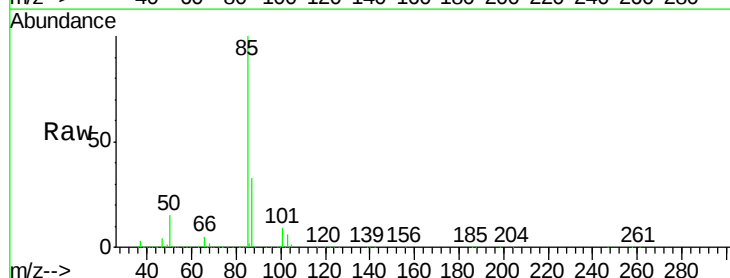
Acq: 5 Aug 2020 12:32

Tgt Ion: 85 Resp: 2036372

Ion Ratio Lower Upper

85 100

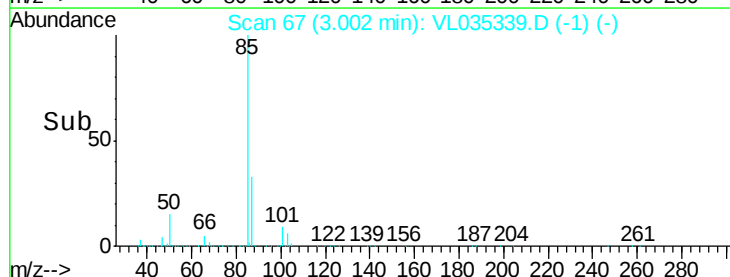
87 33.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

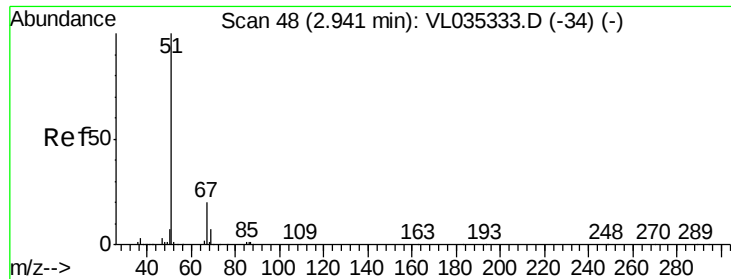
Ion 87.00 (86.70 to 87.70): VL0

Time-->



3.00

Time-->



#3

Chlorodifluoromethane

Concen: 12.233 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2025581

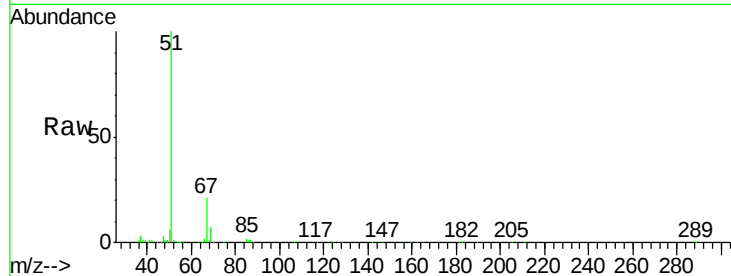
Ion Ratio Lower Upper

51 100

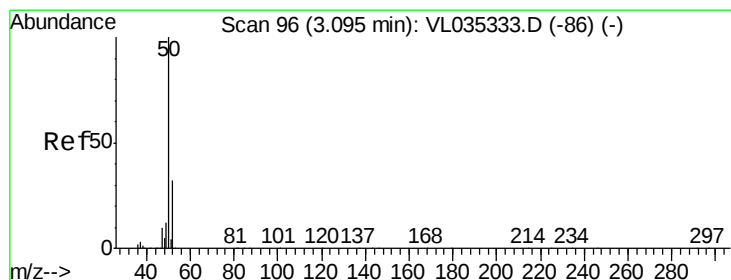
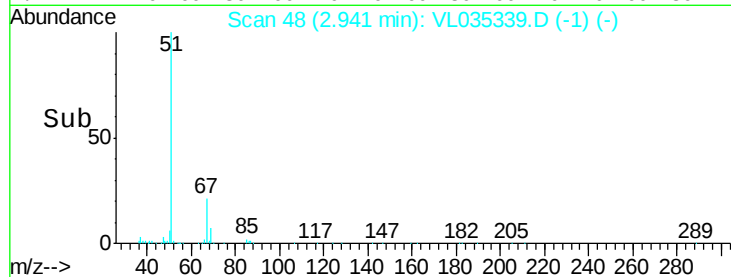
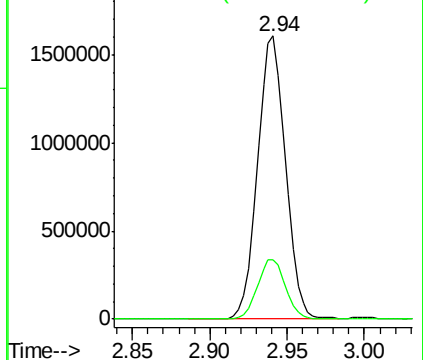
67 21.3 16.6 25.0

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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: 12.473 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.00 min

Lab File: VL035339.D

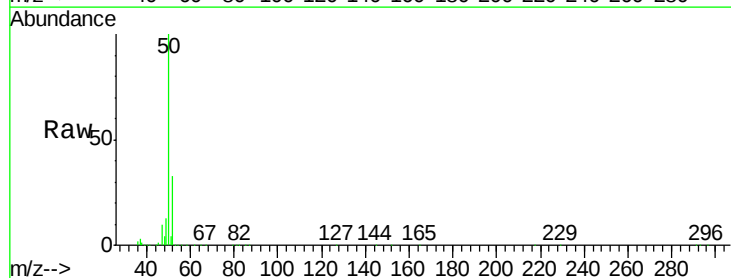
Acq: 5 Aug 2020 12:32

Tgt Ion: 50 Resp: 1179366

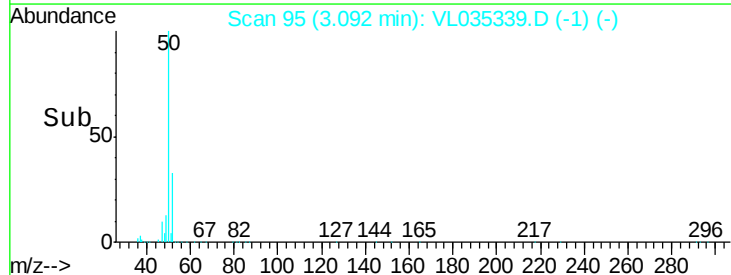
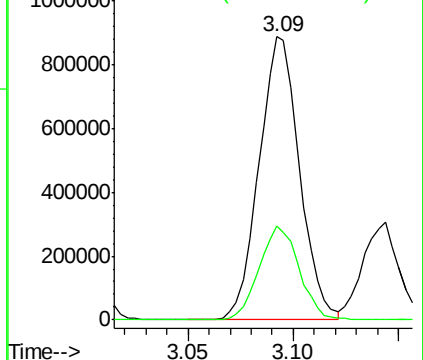
Ion Ratio Lower Upper

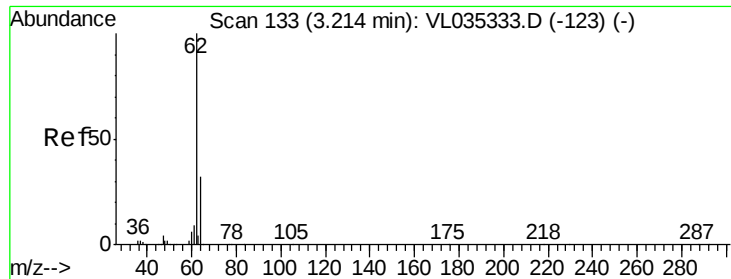
50 100

52 33.2 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.023 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 62 Resp: 1198840

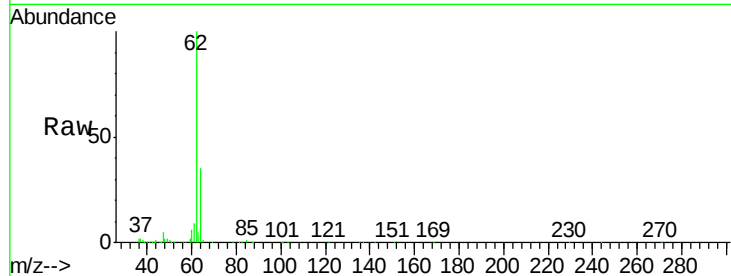
Ion Ratio Lower Upper

62 100

64 34.6 25.8 38.6

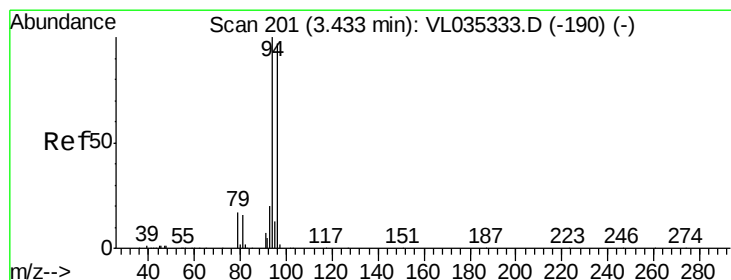
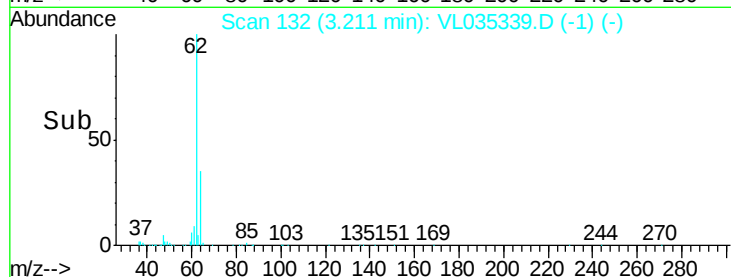
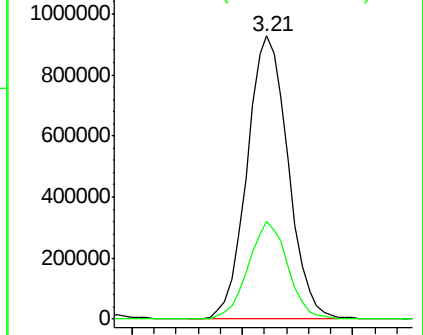
Manual Integrations
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 12.668 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035339.D

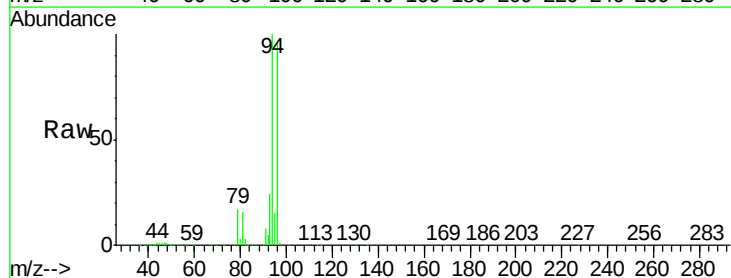
Acq: 5 Aug 2020 12:32

Tgt Ion: 94 Resp: 767121

Ion Ratio Lower Upper

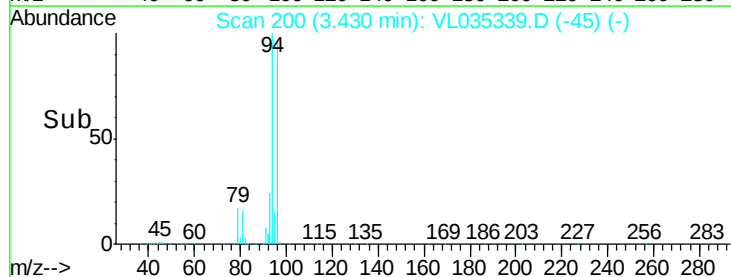
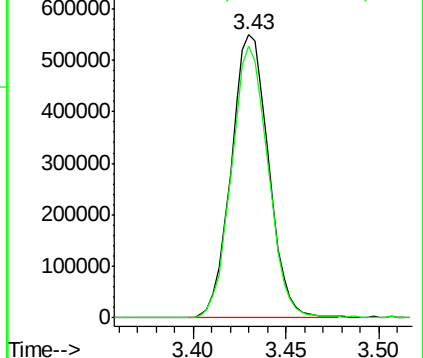
94 100

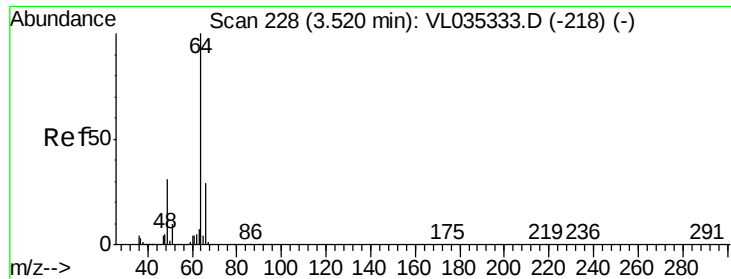
96 96.0 77.3 115.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 12.883 ppbv

RT: 3.52 min Scan# 227

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 471477

Ion Ratio Lower Upper

64 100

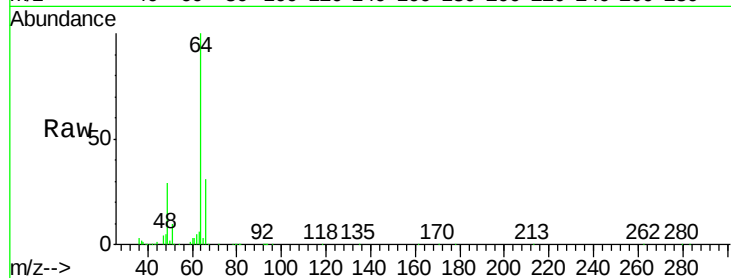
66 31.1 23.0 34.6

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

3.52

400000

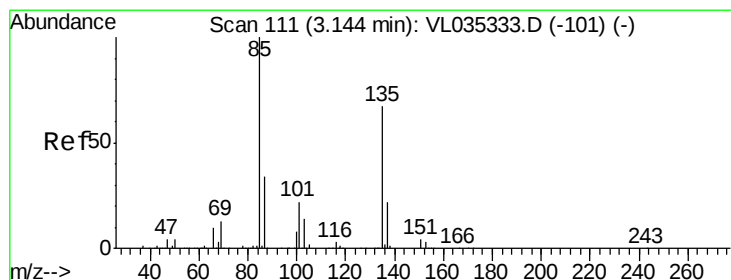
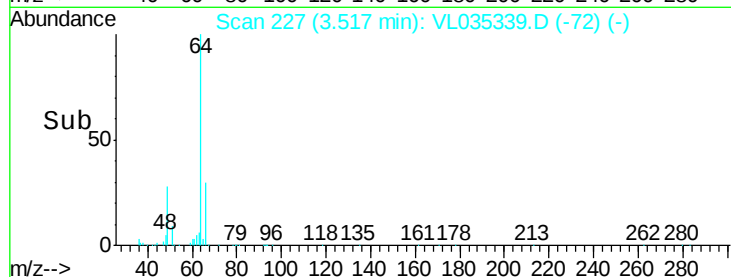
300000

200000

100000

0

Time--> 3.45 3.50 3.55



#8

Dichlorotetrafluoroethane

Concen: 11.820 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035339.D

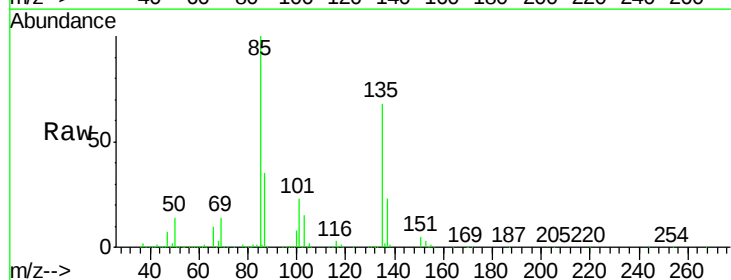
Acq: 5 Aug 2020 12:32

Tgt Ion: 85 Resp: 2687666

Ion Ratio Lower Upper

85 100

135 68.3 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.14

2500000

2000000

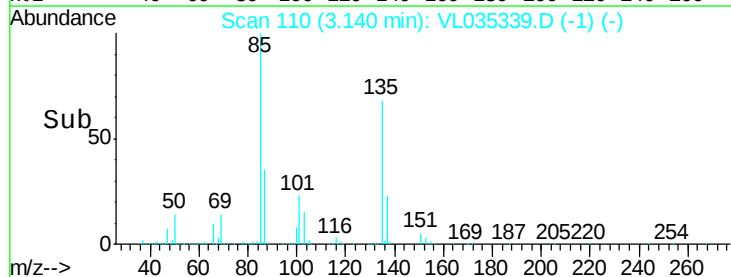
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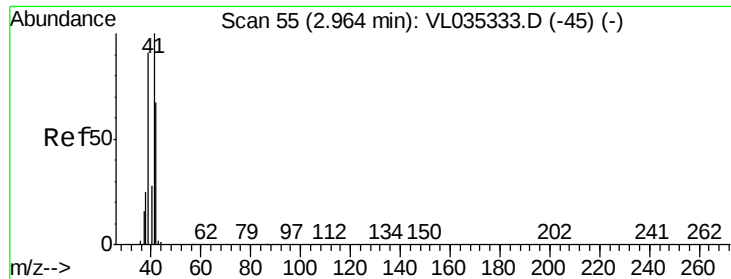
1000000

500000

0

Time--> 3.10 3.15 3.20





#9

Propene

Concen: 13.979 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 836372

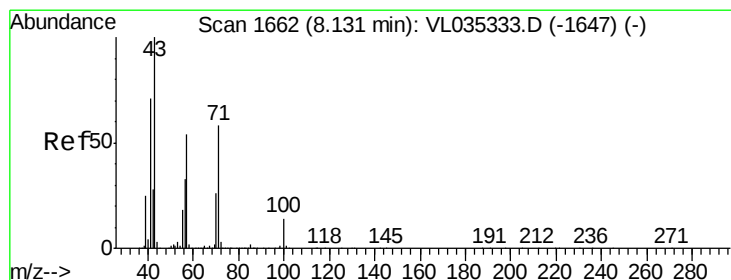
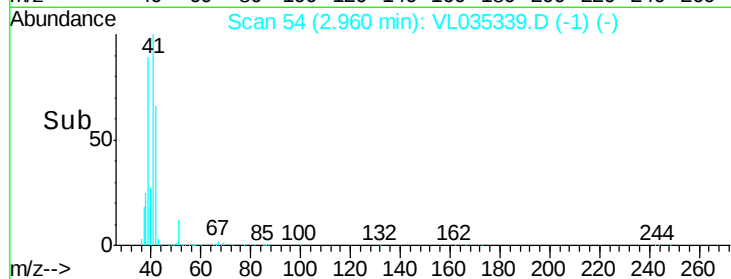
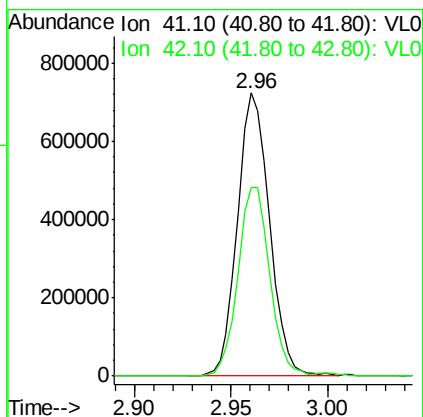
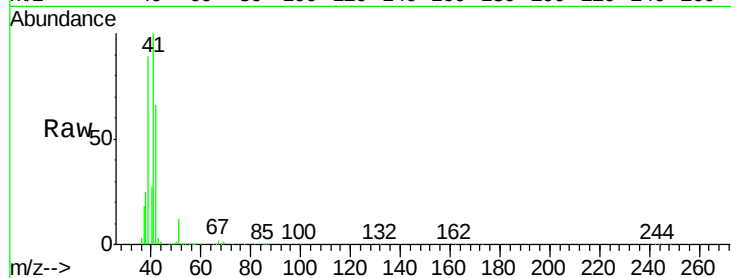
Ion Ratio Lower Upper

41 100

42 67.1 55.3 82.9

Manual Integrations
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#10

Heptane

Concen: 15.849 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035339.D

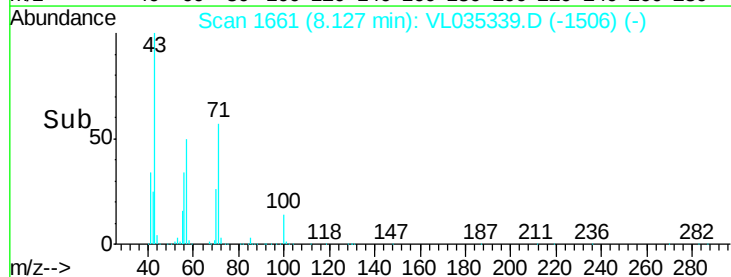
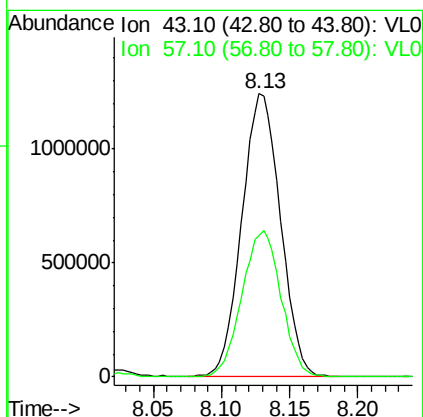
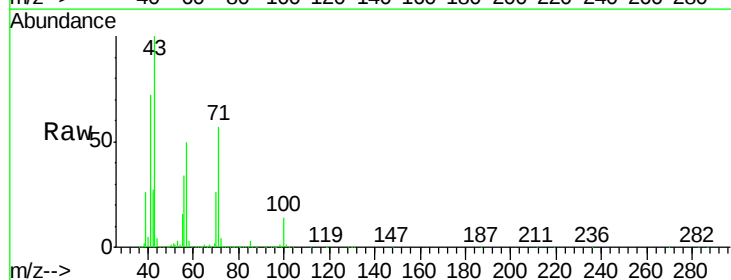
Acq: 5 Aug 2020 12:32

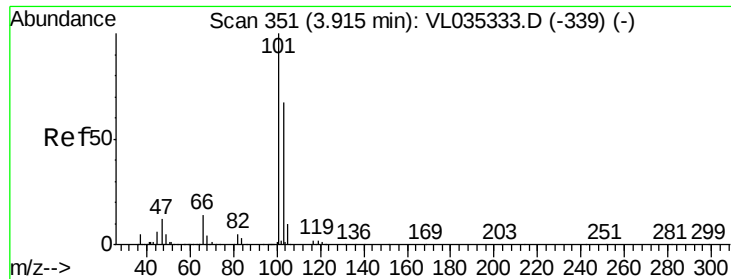
Tgt Ion: 43 Resp: 2433768

Ion Ratio Lower Upper

43 100

57 52.6 43.0 64.6





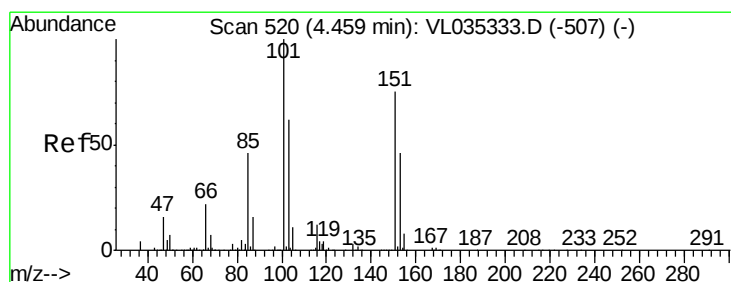
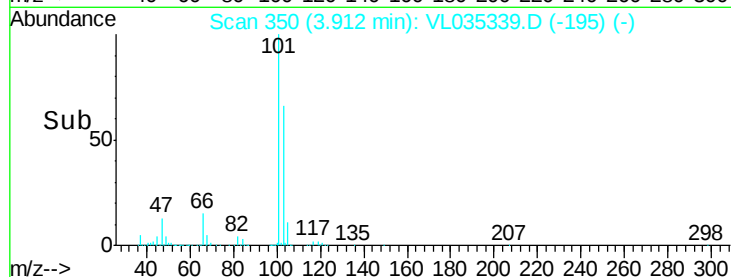
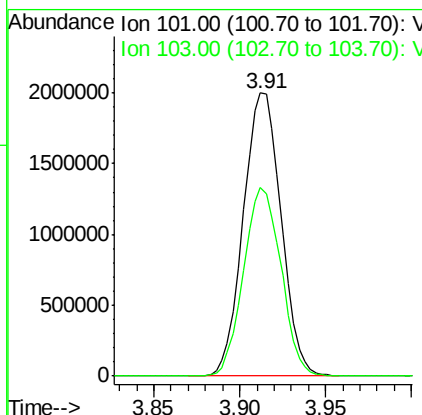
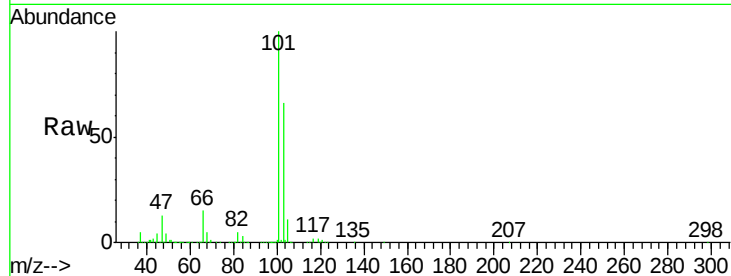
#11
 Trichlorofluoromethane
 Concen: 12.388 ppbv
 RT: 3.91 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3050056
 Ion Ratio Lower Upper
 101 100
 103 66.5 53.8 80.8

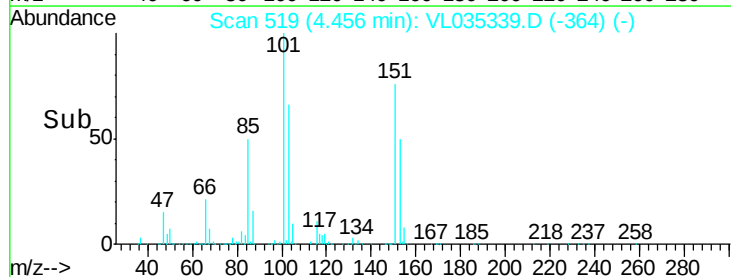
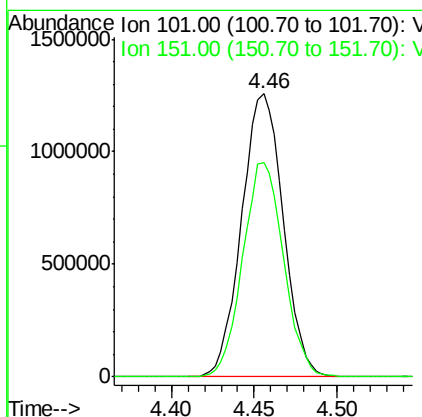
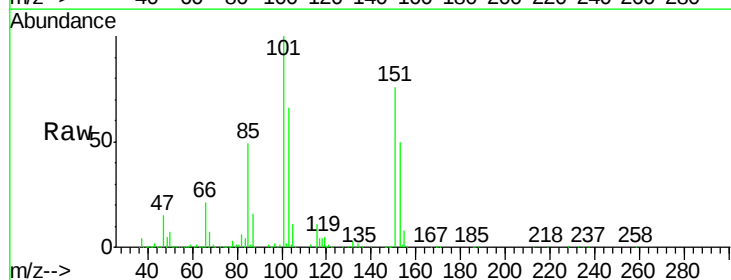
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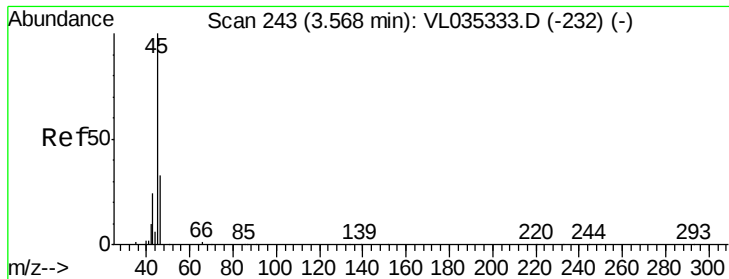
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.811 ppbv
 RT: 4.46 min Scan# 519
 Delta R.T. -0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Tgt Ion:101 Resp: 2198672
 Ion Ratio Lower Upper
 101 100
 151 74.3 59.5 89.3





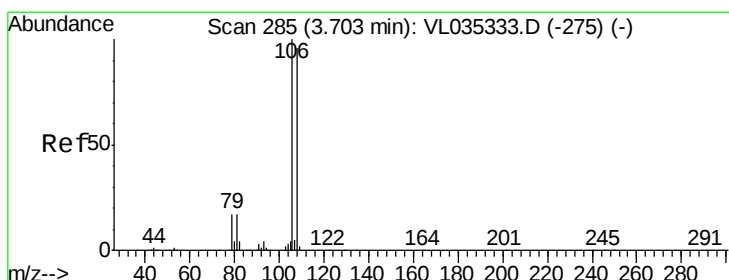
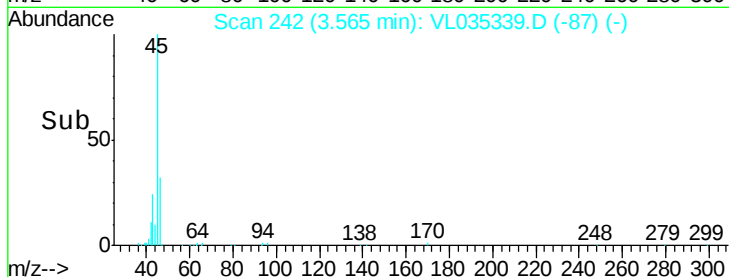
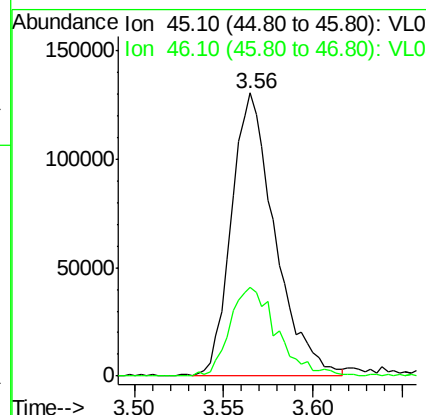
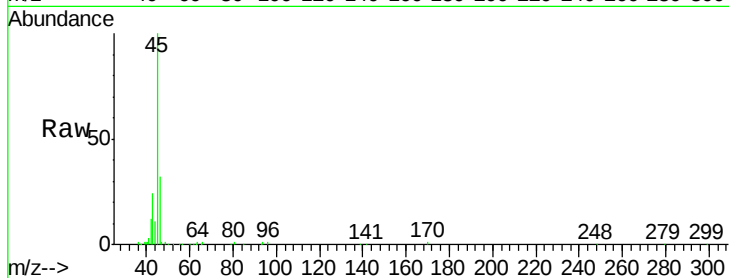
#13
Ethanol
Concen: 9.958 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.6	15.2	61.0

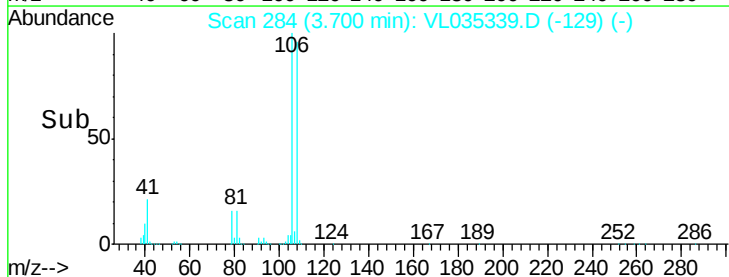
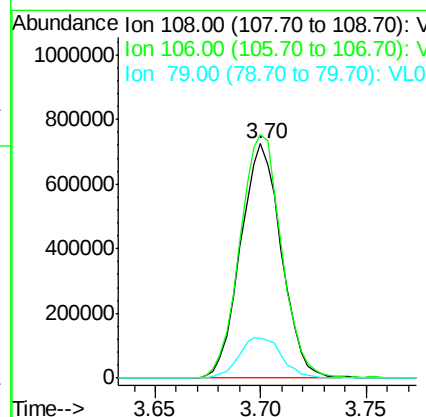
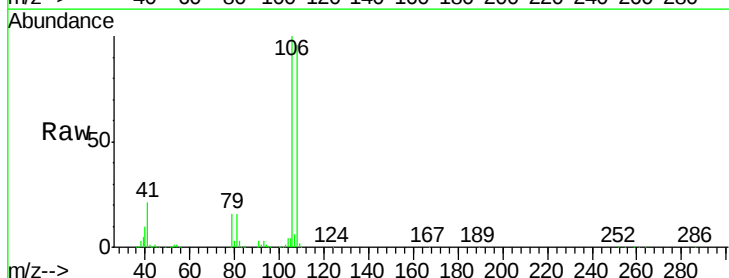
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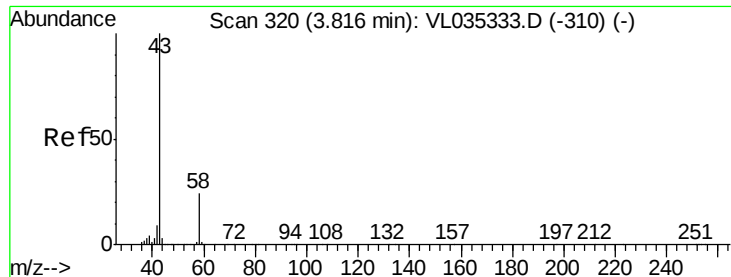
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#14
Bromoethene
Concen: 13.754 ppbv
RT: 3.70 min Scan# 284
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.8	85.0	127.6
79	18.5	15.0	22.6





#15

Acetone

Concen: 11.167 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tot Ion: 43 Resp: 2326593

Ion Ratio Lower Upper

43 100

58 26.9 21.0 31.4

Instrument :

MSVOA_L

ClientSampleId :

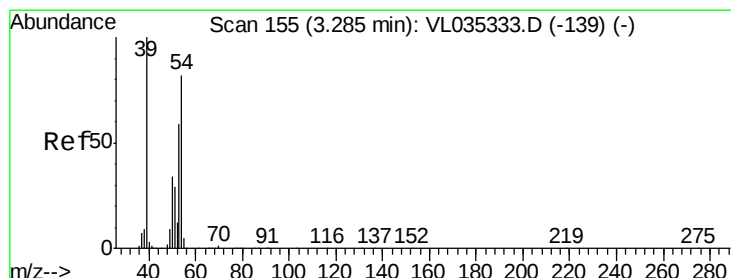
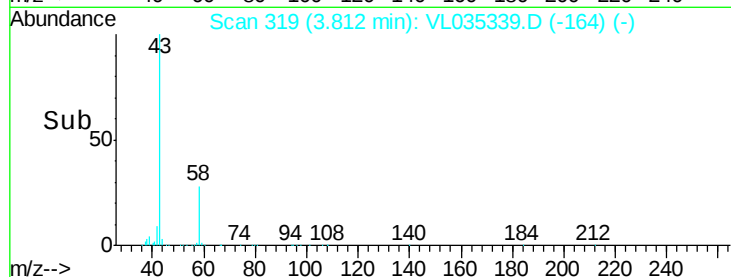
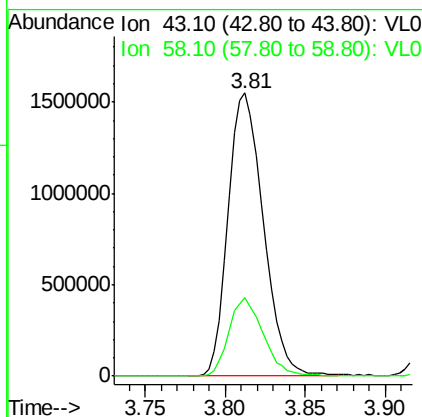
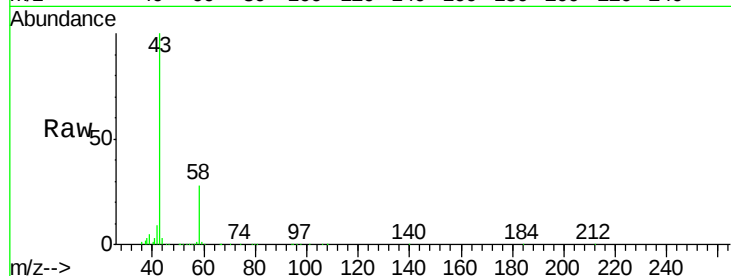
VSTDIC015

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#16

1,3-Butadiene

Concen: 14.443 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.00 min

Lab File: VL035339.D

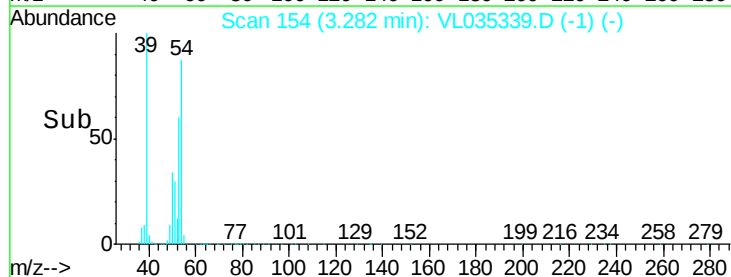
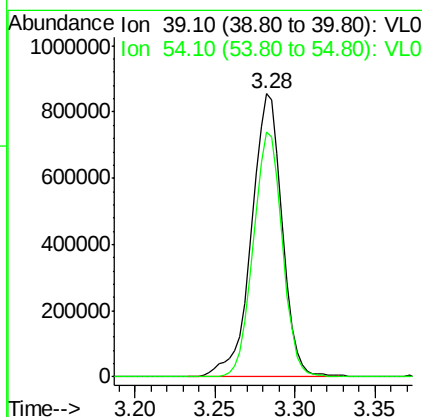
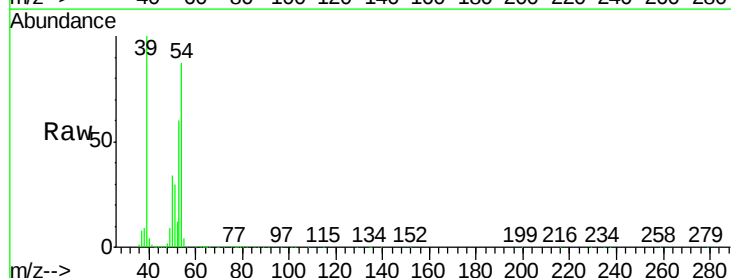
Acq: 5 Aug 2020 12:32

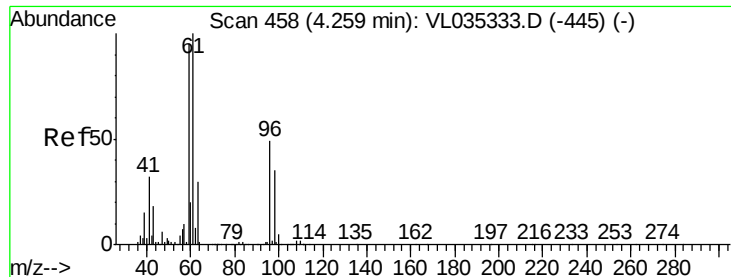
Tgt Ion: 39 Resp: 1122167

Ion Ratio Lower Upper

39 100

54 81.9 64.4 96.6





#17

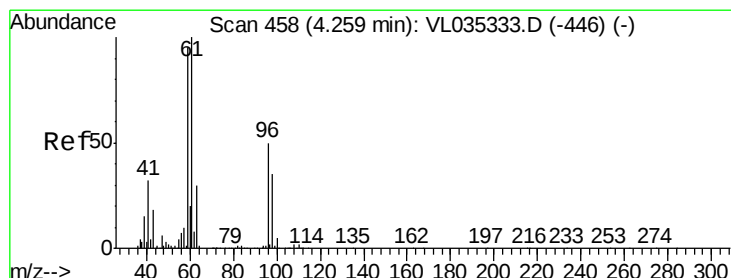
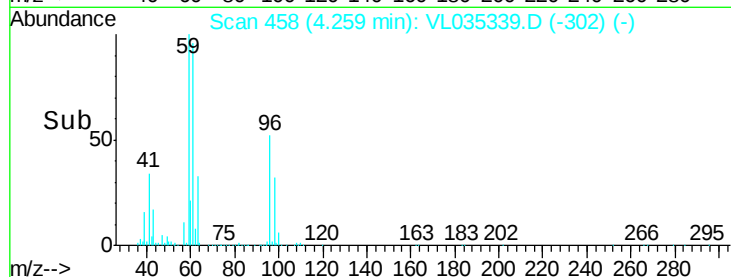
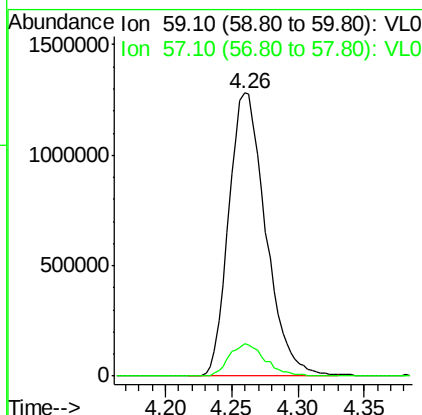
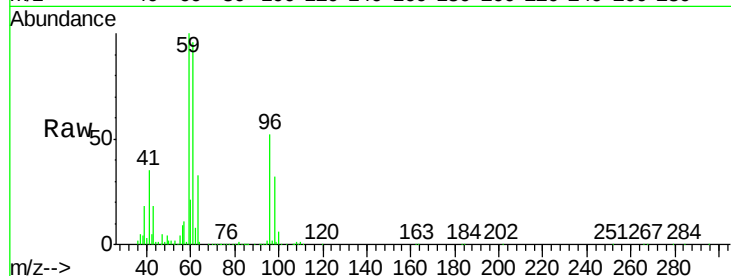
tert-Butyl alcohol
Concen: 13.106 ppbv
RT: 4.26 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 59 Resp: 2487042
Ion Ratio Lower Upper
59 100
57 11.3 8.8 13.2

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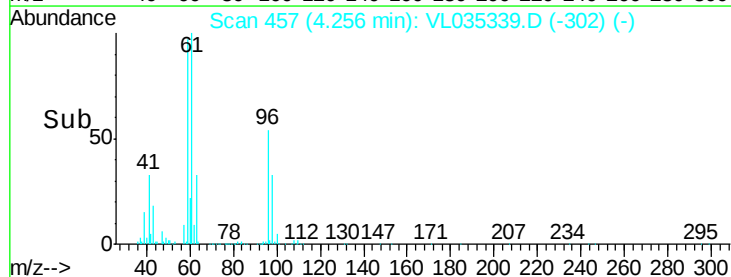
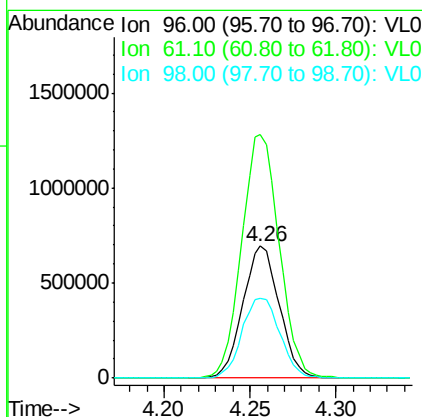
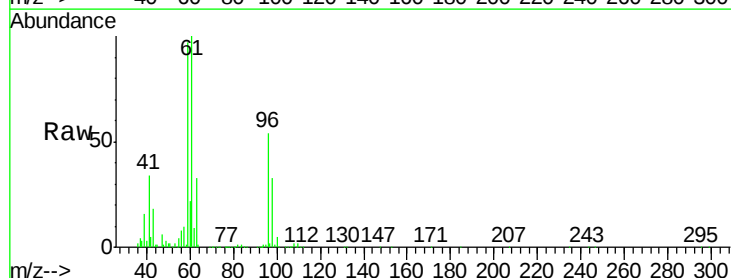
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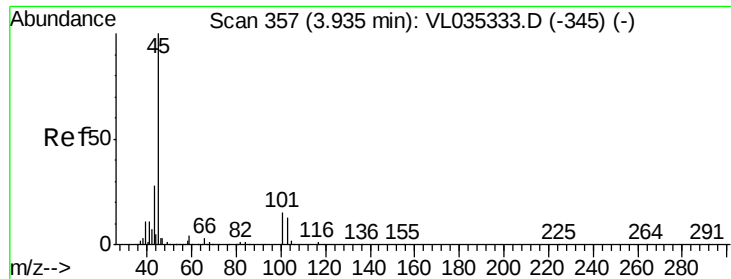


#18

1,1-Dichloroethene
Concen: 13.233 ppbv
RT: 4.26 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 96 Resp: 1022345
Ion Ratio Lower Upper
96 100
61 184.9 161.4 242.2
98 60.3 56.0 84.0





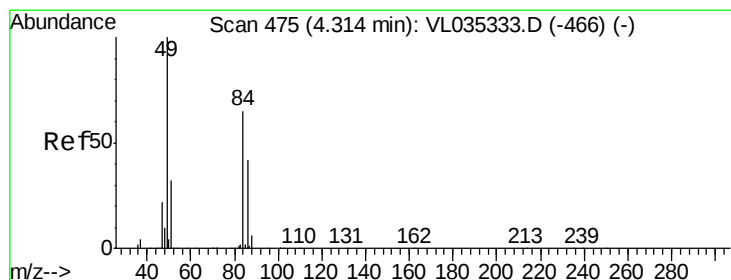
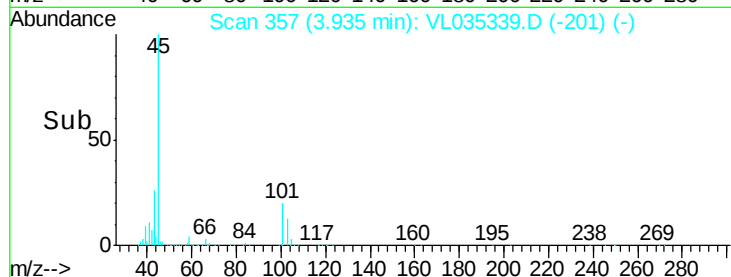
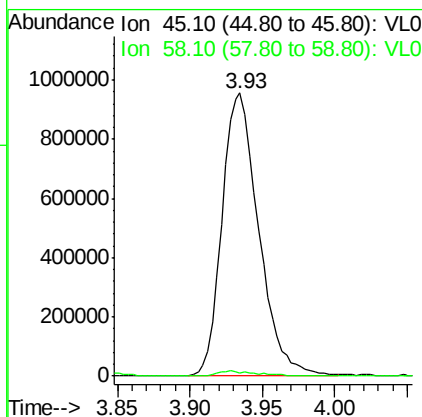
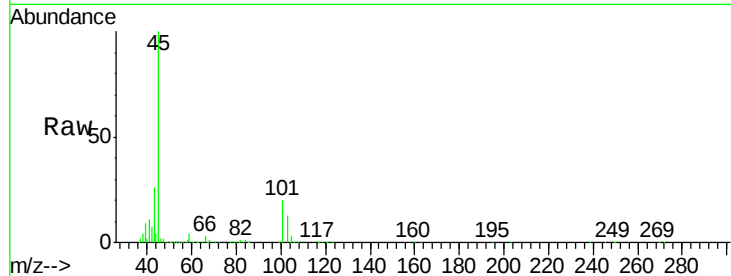
#19
Isopropyl Alcohol
Concen: 12.761 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 45 Resp: 1670009
Ion Ratio Lower Upper
45 100
58 2.2 1.9 2.9

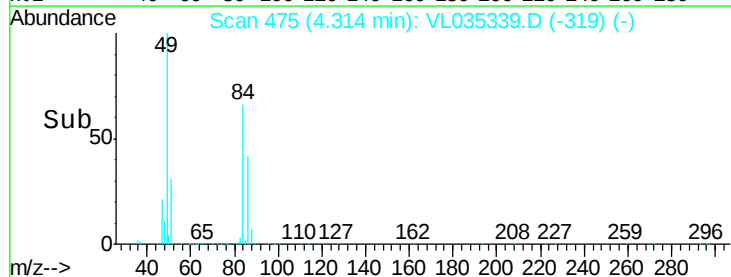
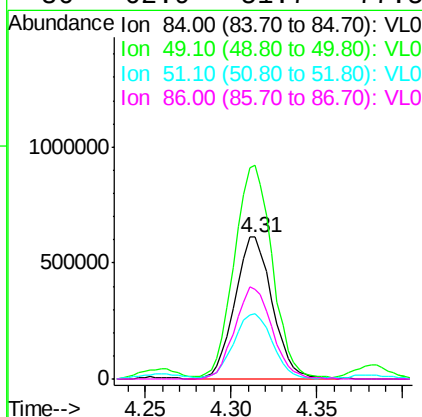
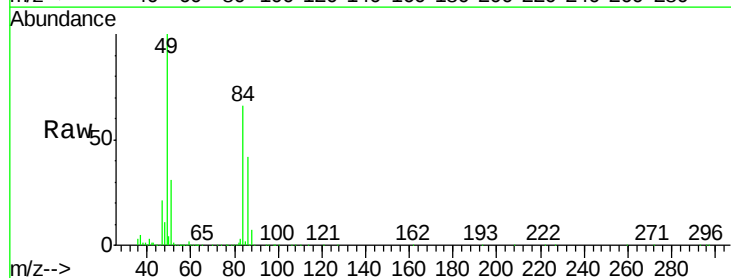
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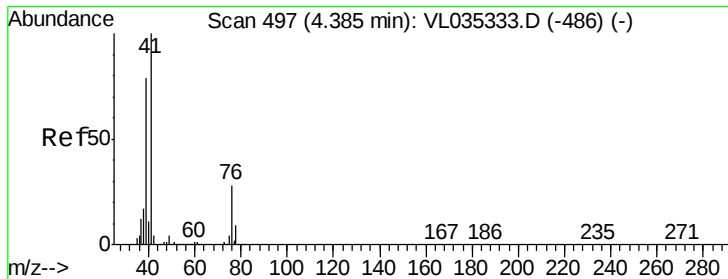
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#20
Methylene Chloride
Concen: 9.679 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 84 Resp: 921032
Ion Ratio Lower Upper
84 100
49 149.3 122.8 184.2
51 45.7 40.1 60.1
86 62.9 51.7 77.5





#21

Allvl Chloride

Concen: 13.762 ppbv

RT: 4.38 min Scan# 496

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

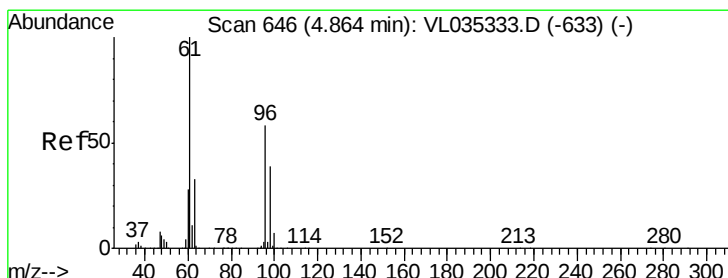
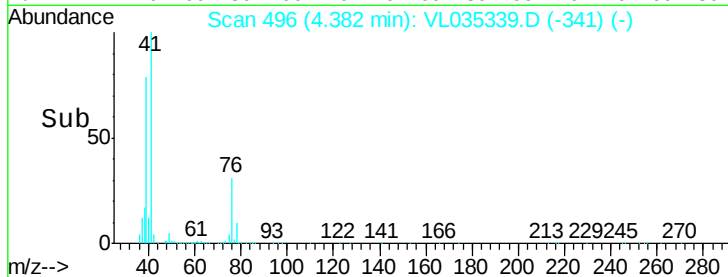
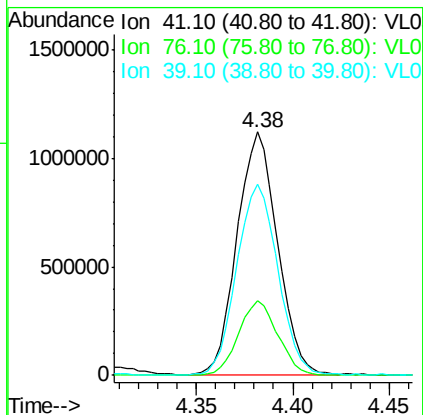
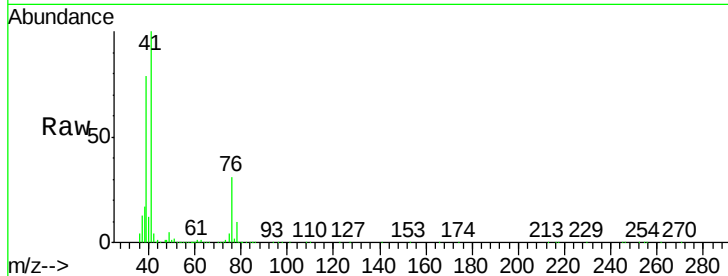
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	1623831
Ion	Ratio	Lower	Upper
41	100		
76	30.3	23.8	35.6
39	80.8	65.0	97.6

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#22

trans-1,2-Dichloroethene

Concen: 13.177 ppbv

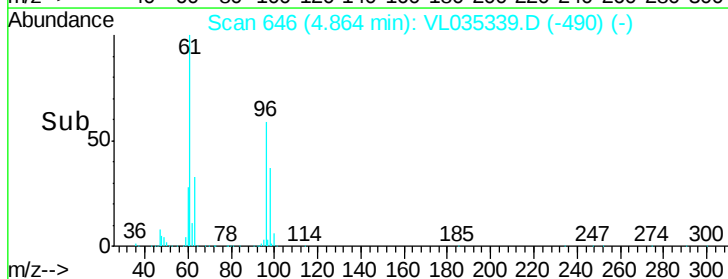
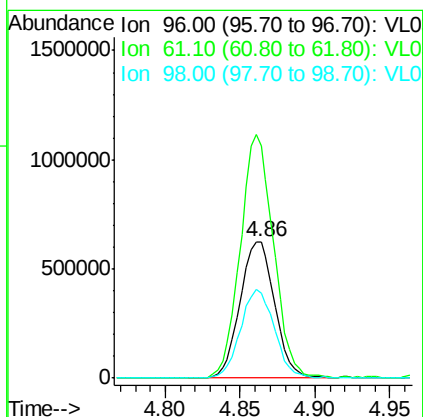
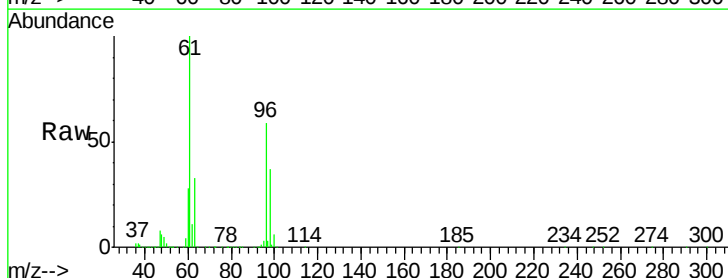
RT: 4.86 min Scan# 646

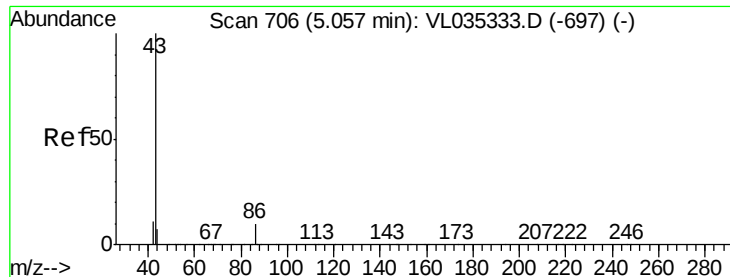
Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tgt Ion:	96	Resp:	1009999
Ion	Ratio	Lower	Upper
96	100		
61	170.3	138.5	207.7
98	62.4	54.3	81.5





#23

Vinyl Acetate

Concen: 14.492 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tot Ion	43	Resp	2991817
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.9	10.3
42	11.1	8.8	13.2
44	5.8	5.0	7.6

Instrument :

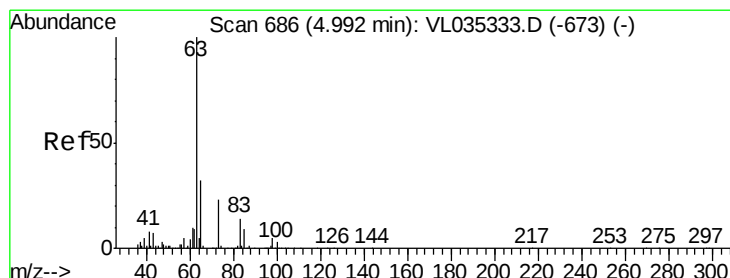
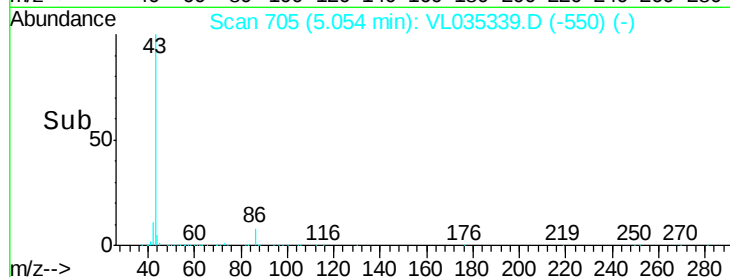
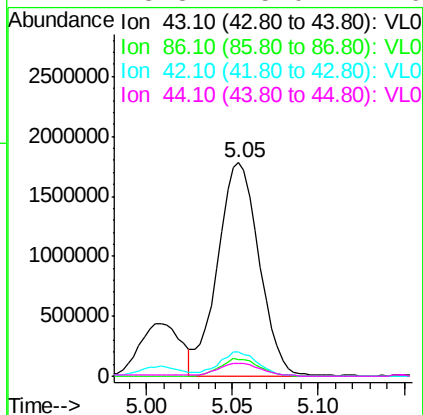
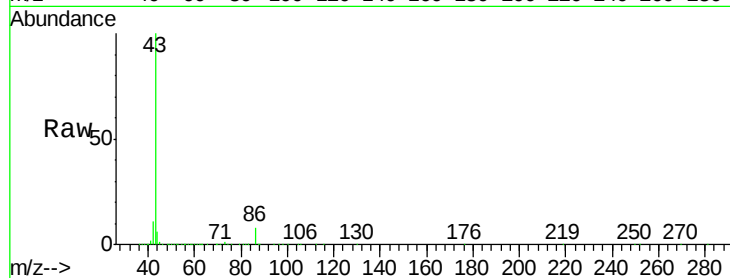
MSVOA_L

ClientSampleId :

VSTDIC015

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#24

1,1-Dichloroethane

Concen: 12.466 ppbv

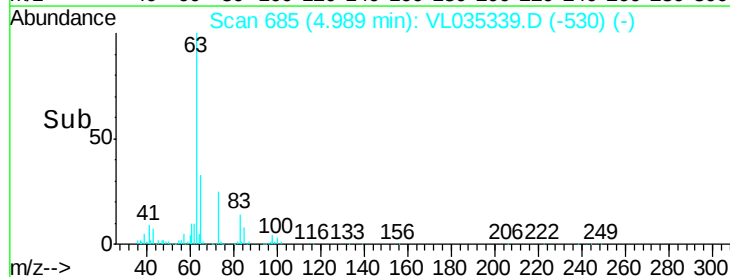
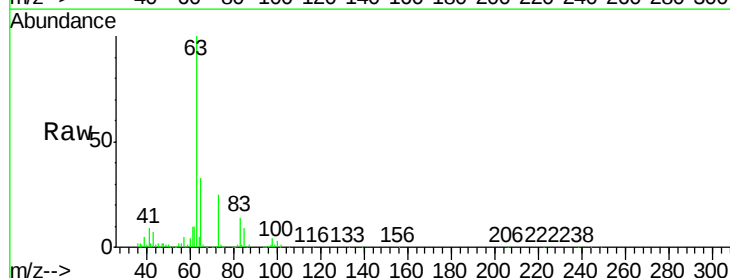
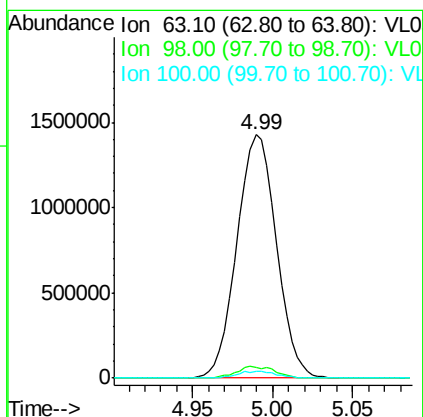
RT: 4.99 min Scan# 685

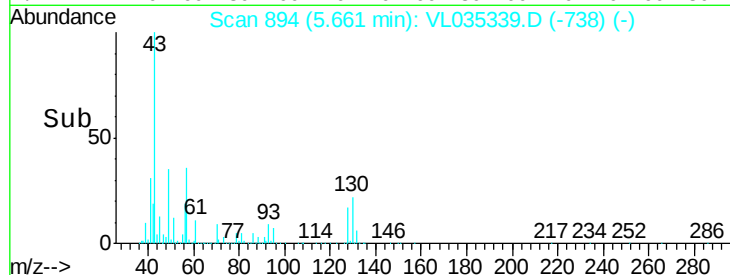
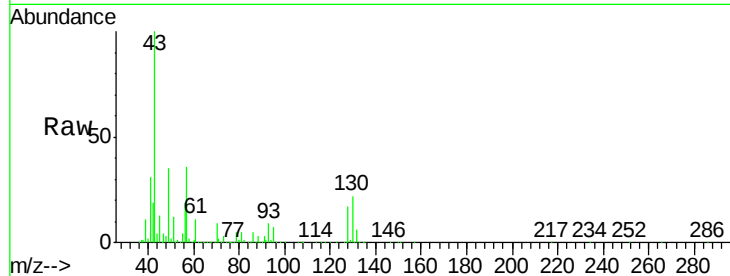
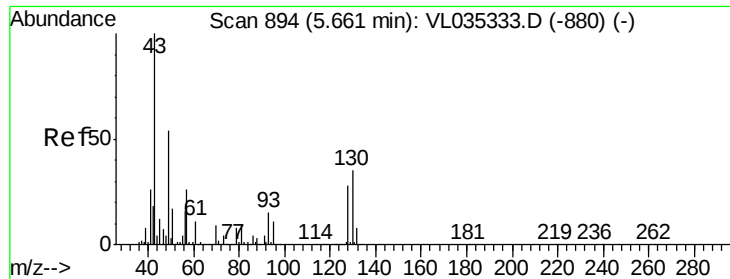
Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tgt Ion	63	Resp	2394787
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.5	7.5
100	2.9	1.4	4.2





#25

Ethyl Acetate

Concen: 13.496 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tot Ion: 43 Resp: 4250235

Ion Ratio Lower Upper

43 100

45 10.6 8.5 12.7

61 10.3 8.1 12.1

70 8.0 6.5 9.7

Instrument :

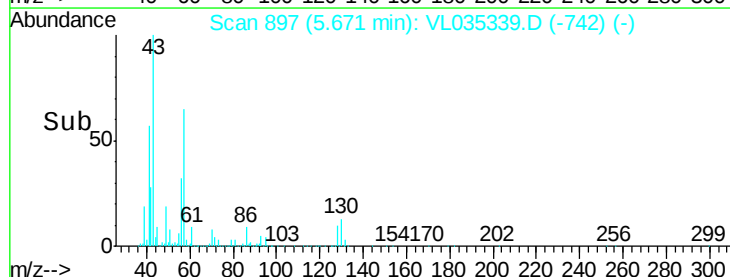
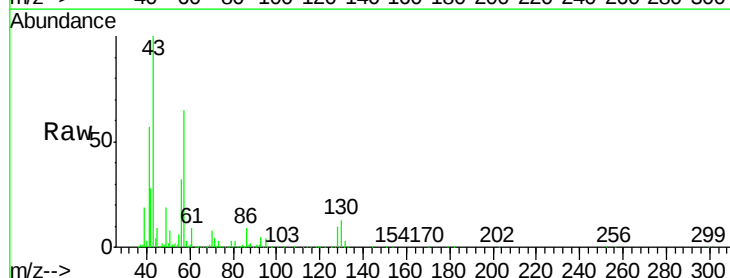
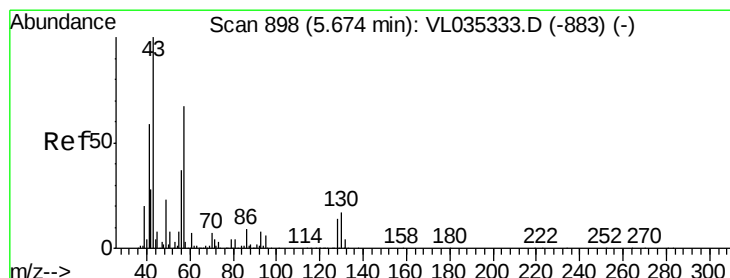
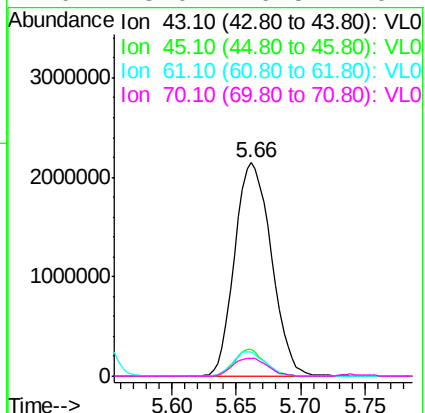
MSVOA_L

ClientSampleId :

VSTDIC015

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#26

Hexane

Concen: 13.687 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tgt Ion: 57 Resp: 1929882

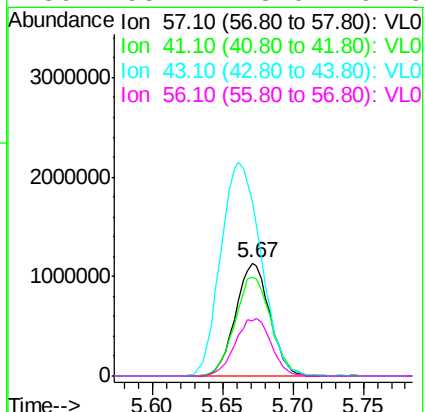
Ion Ratio Lower Upper

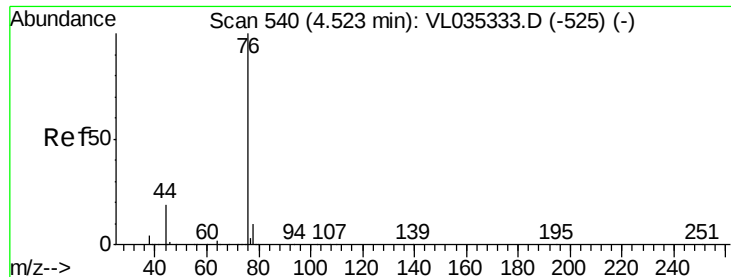
57 100

41 93.1 75.2 112.8

43 221.1 180.6 270.8

56 53.4 43.0 64.6





#27

Carbon Disulfide

Concen: 13.856 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2628772

Ion Ratio Lower Upper

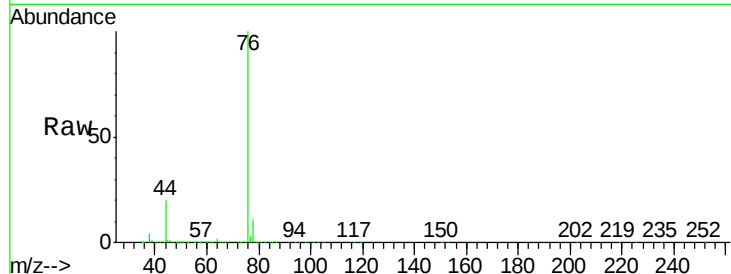
76 100

44 19.3 15.4 23.2

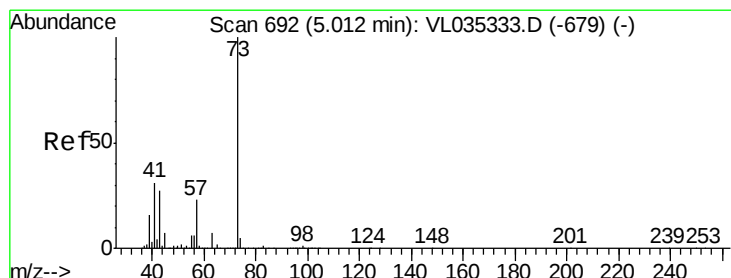
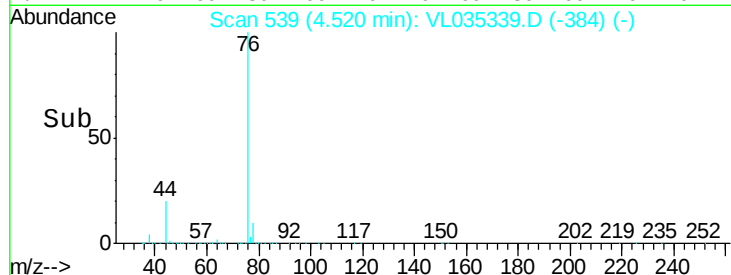
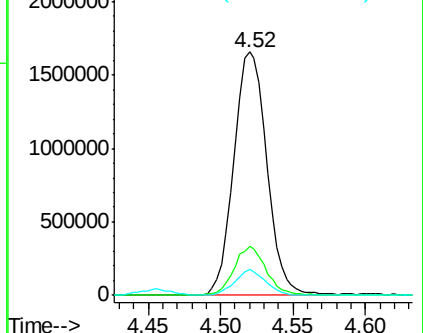
78 10.0 7.7 11.5

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 13.512 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL035339.D

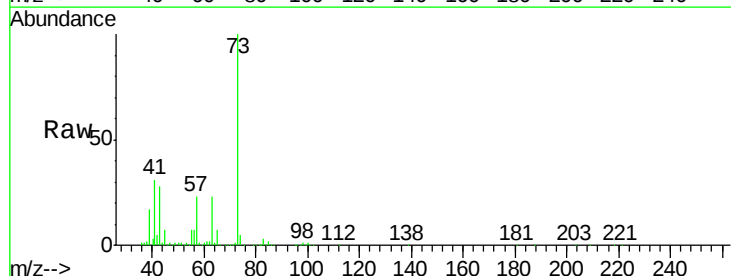
Acq: 5 Aug 2020 12:32

Tgt Ion: 73 Resp: 2863134

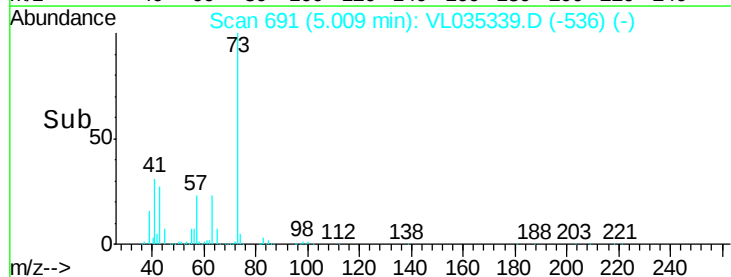
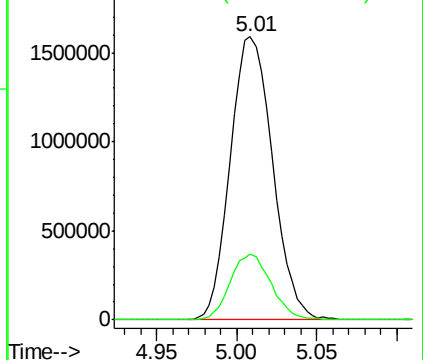
Ion Ratio Lower Upper

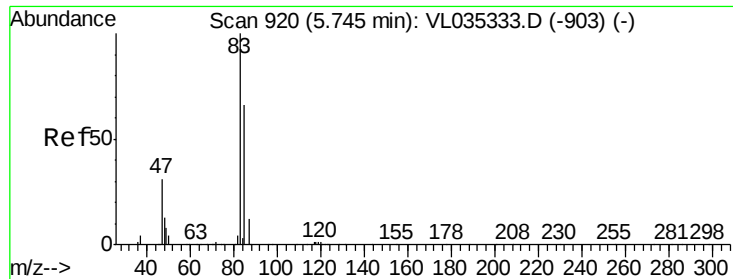
73 100

57 22.8 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





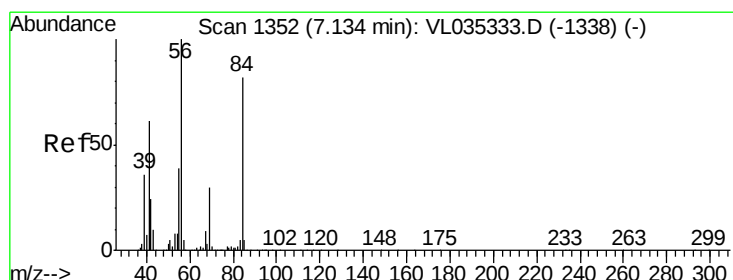
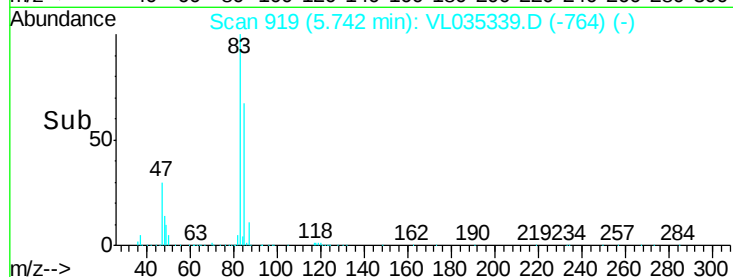
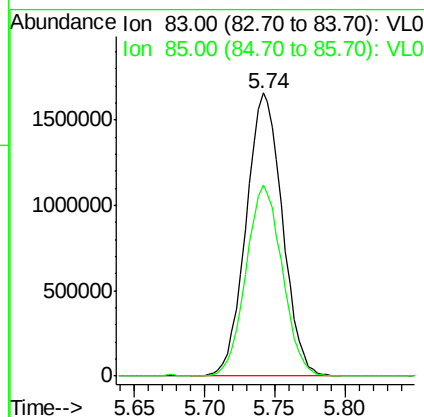
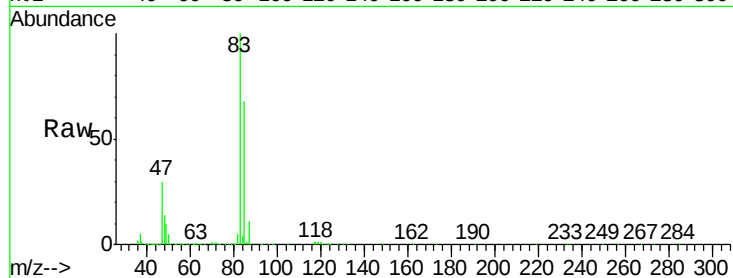
#29
Chloroform
Concen: 12.538 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2990321
Ion Ratio Lower Upper
83 100
85 67.3 52.9 79.3

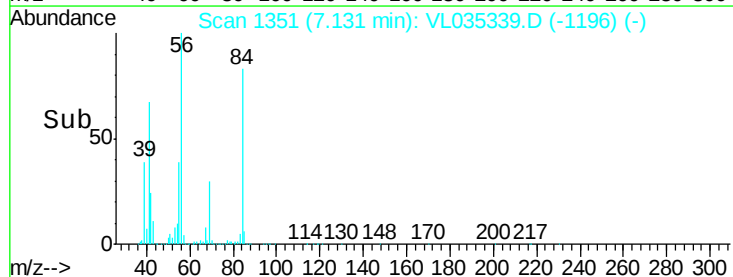
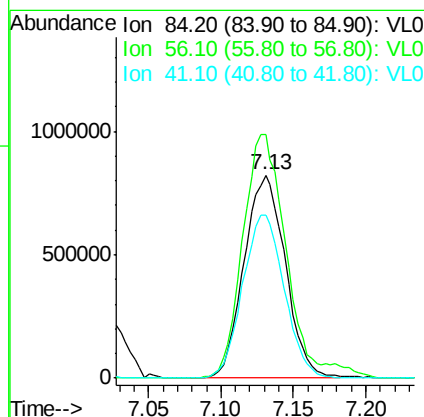
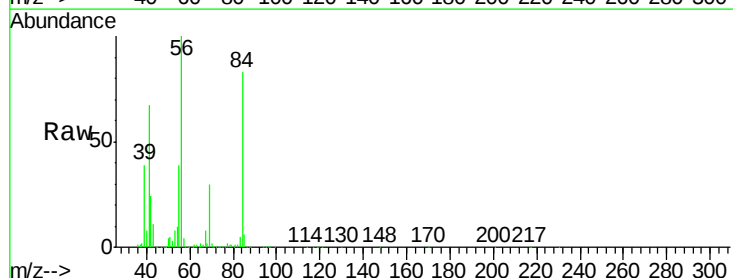
Manual Integrations
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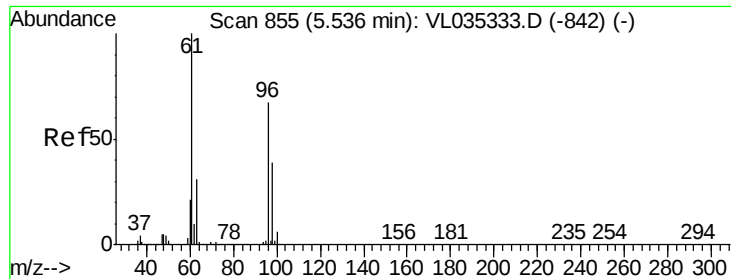
MMDadoda
8/6/2020 12:49:02 PM



#30
Cyclohexane
Concen: 15.408 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 84 Resp: 1629666
Ion Ratio Lower Upper
84 100
56 127.6 104.7 157.1
41 81.1 64.2 96.2





#31

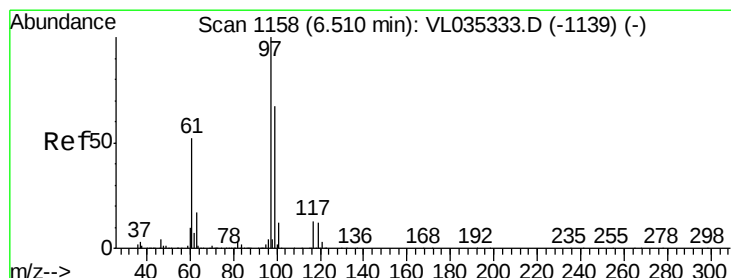
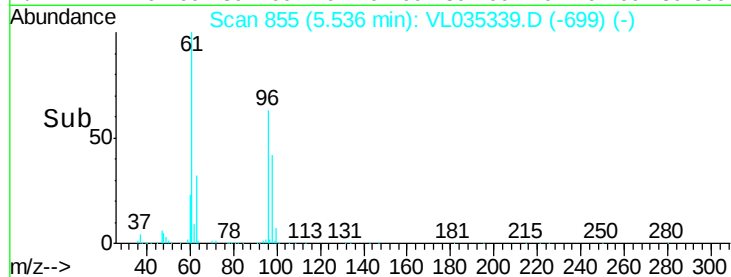
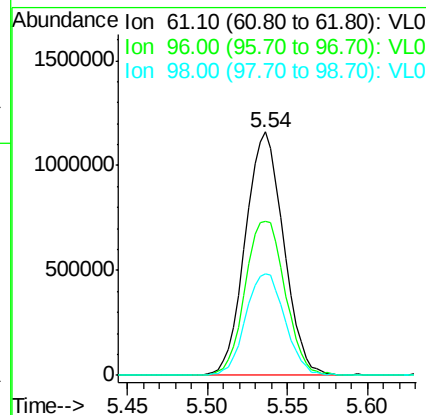
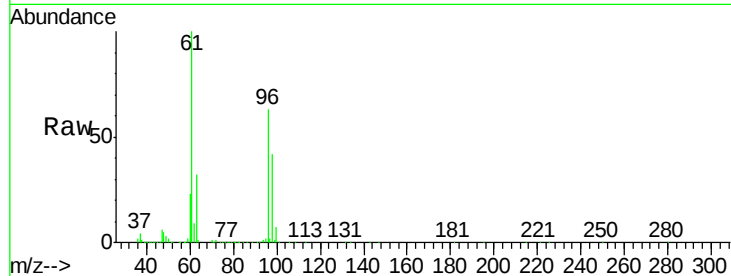
cis-1,2-Dichloroethene
 Concen: 14.561 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.3	53.6	80.4
98	41.8	31.0	46.4

Manual Integrations
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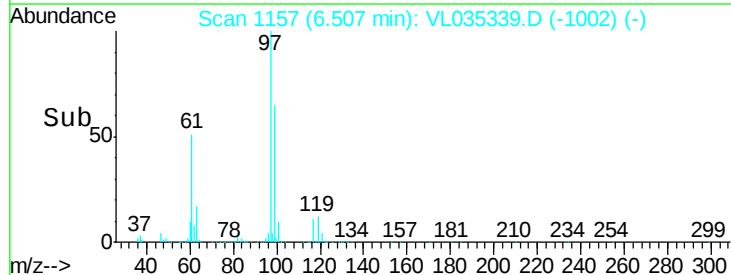
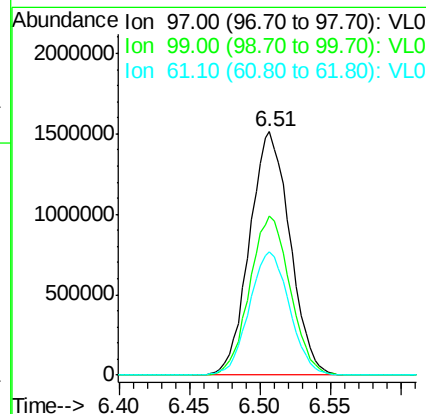
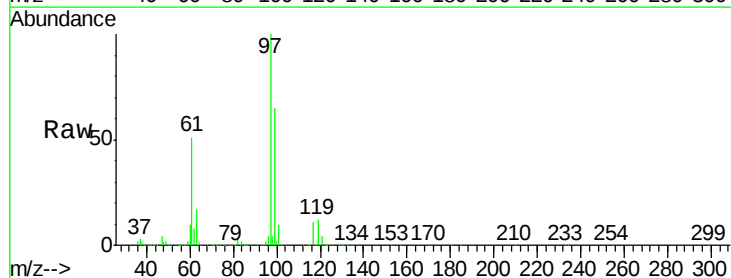
MMDadoda
 8/6/2020 12:49:02 PM

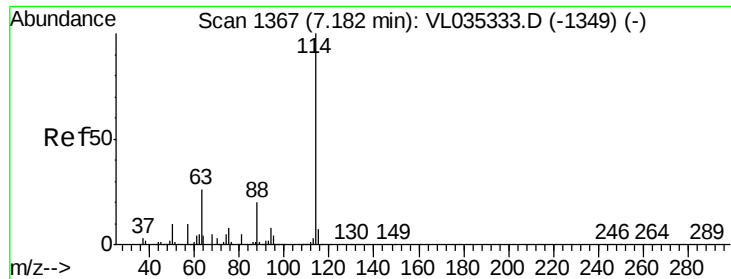


#32

1,1,1-Trichloroethane
 Concen: 13.152 ppbv
 RT: 6.51 min Scan# 1157
 Delta R.T. -0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.2	78.4
61	50.5	40.9	61.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 3539467

Ion Ratio Lower Upper

114 100

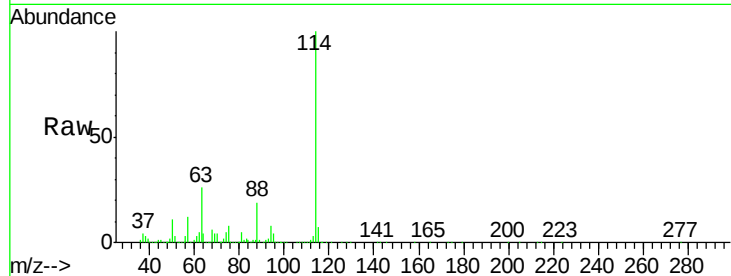
63 26.7 21.3 31.9

88 19.0 15.3 22.9

Manual Integrations
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MMDadoda

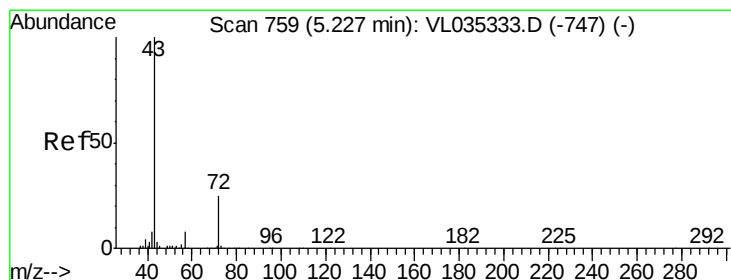
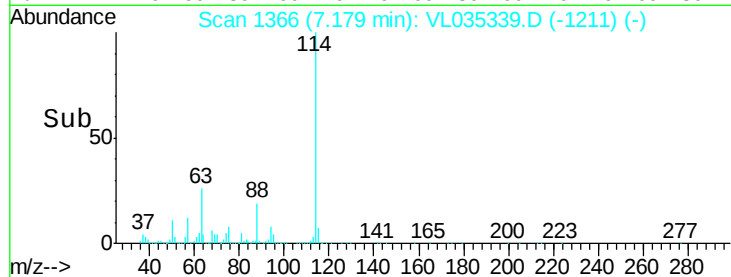
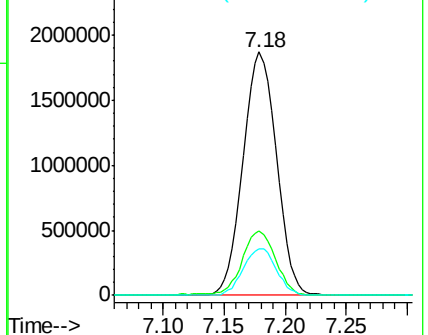
8/6/2020 12:49:02 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 14.121 ppbv

RT: 5.22 min Scan# 758

Delta R.T. -0.00 min

Lab File: VL035339.D

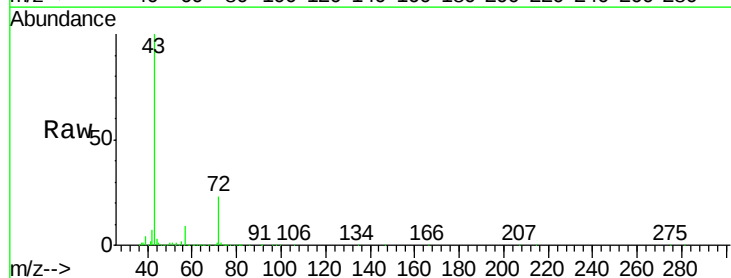
Acq: 5 Aug 2020 12:32

Tgt Ion: 43 Resp: 2631453

Ion Ratio Lower Upper

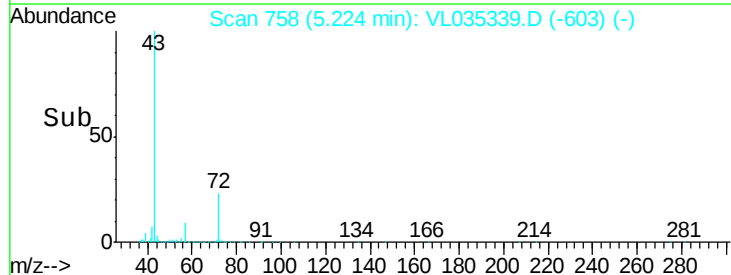
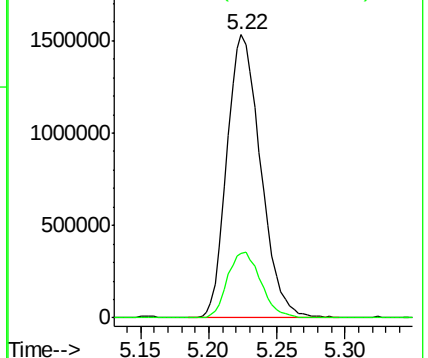
43 100

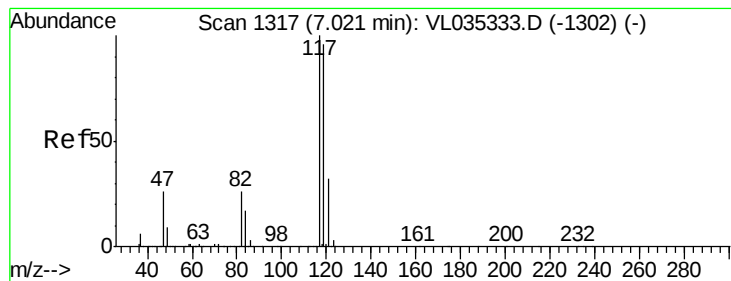
72 23.1 18.9 28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 14.073 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3221214

Ion Ratio Lower Upper

117 100

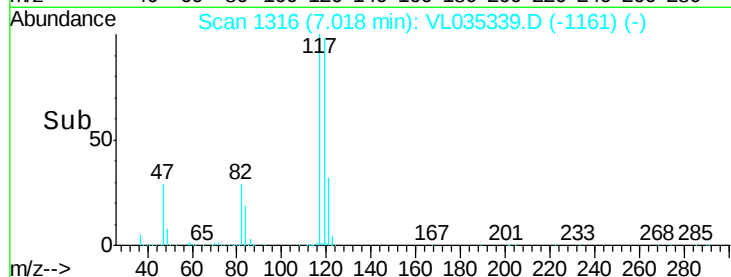
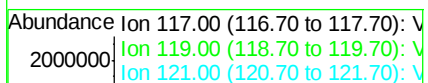
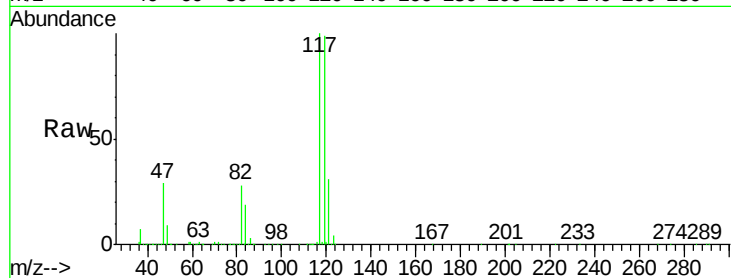
119 98.6 77.0 115.6

121 31.5 26.0 39.0

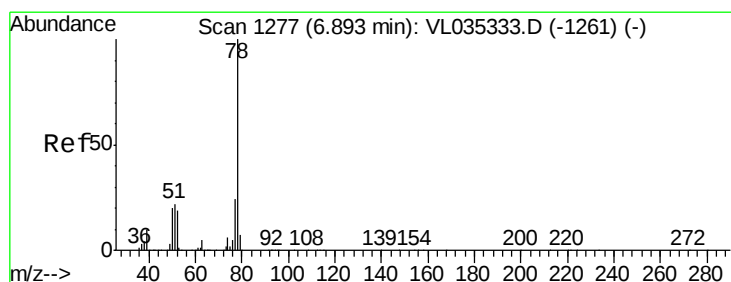
Manual Integrations
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Time-->



#36

Benzene

Concen: 14.325 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

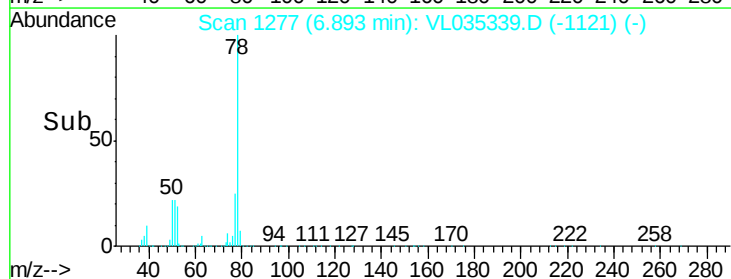
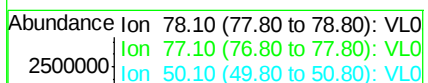
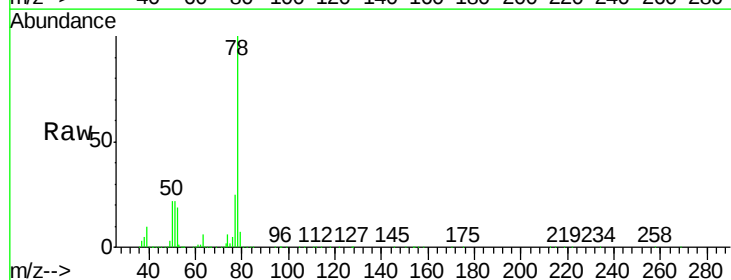
Tgt Ion: 78 Resp: 3717450

Ion Ratio Lower Upper

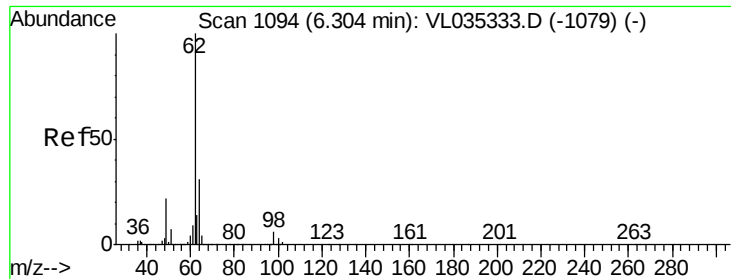
78 100

77 24.6 19.3 28.9

50 21.5 16.3 24.5



Time-->



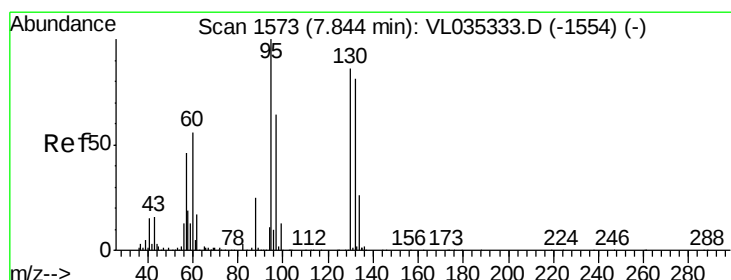
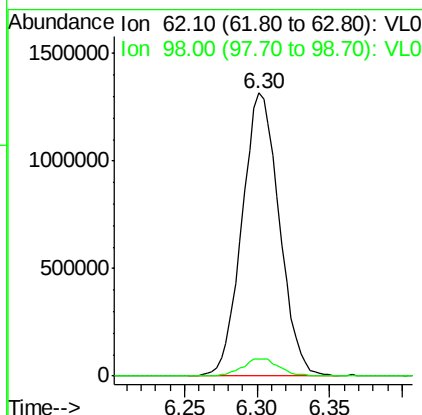
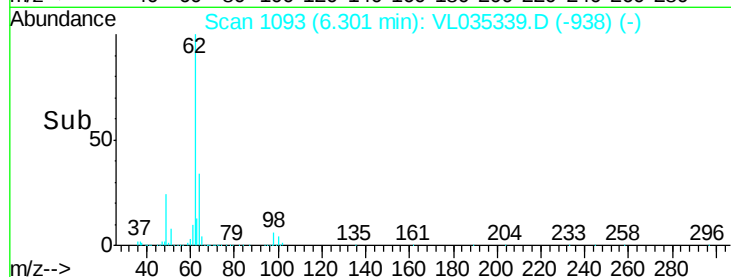
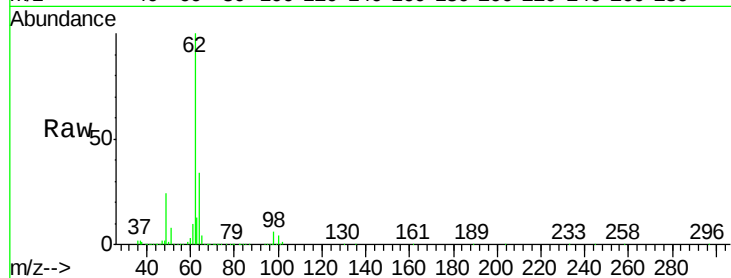
#37
 1,2-Dichloroethane
 Concen: 13.405 ppbv
 RT: 6.30 min Scan# 1093
 Delta R.T. -0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.6	7.0

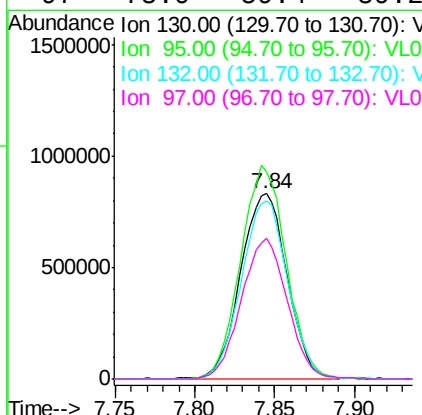
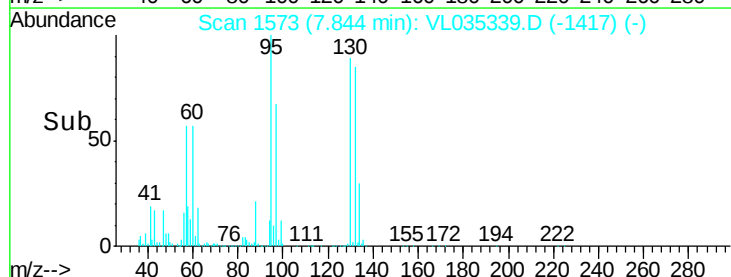
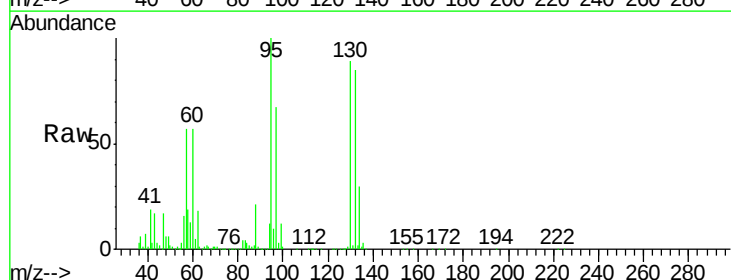
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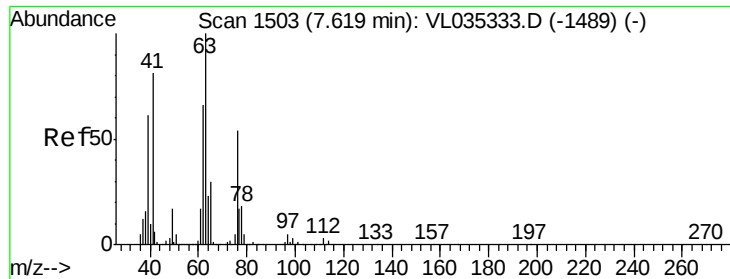
MMDadoda
 8/6/2020 12:49:02 PM



#38
 Trichloroethene
 Concen: 17.161 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	112.6	93.4	140.2
132	96.2	76.1	114.1
97	75.9	59.4	89.2





#39

1,2-Dichloropropane

Concen: 14.362 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1468727

Ion Ratio Lower Upper

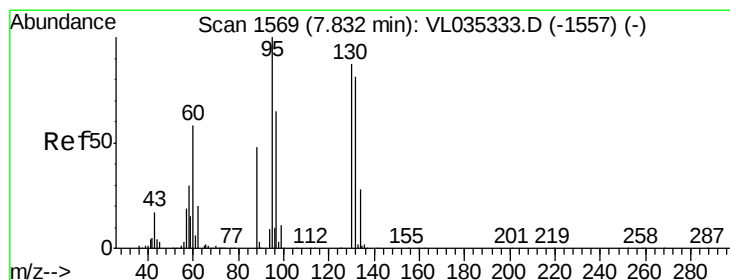
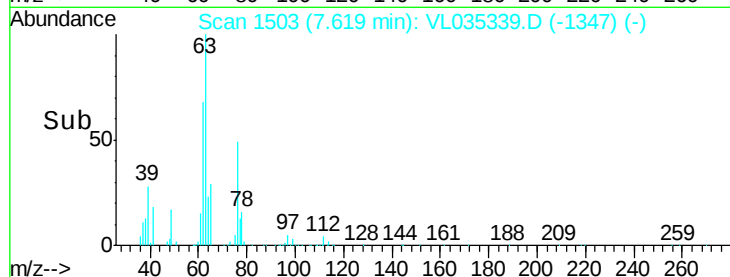
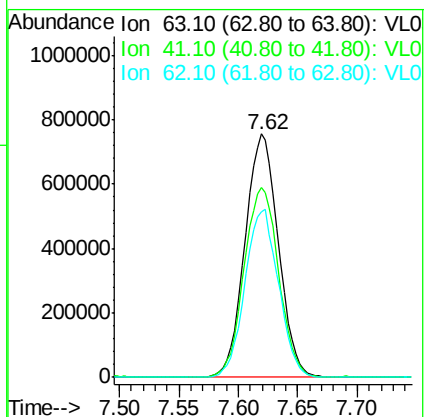
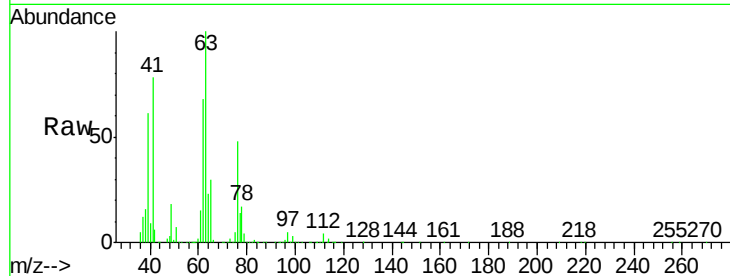
63 100

41 77.9 64.4 96.6

62 67.9 52.6 78.8

Manual Integrations
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#40

1,4-Dioxane

Concen: 13.302 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tgt Ion: 88 Resp: 590819

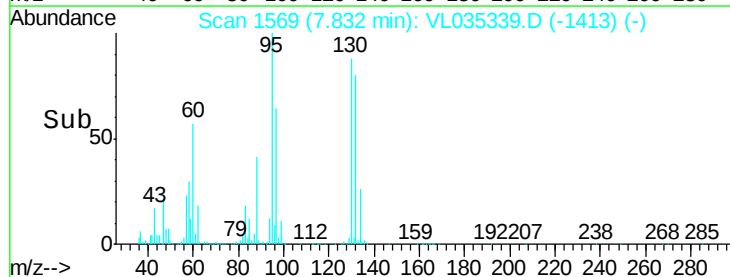
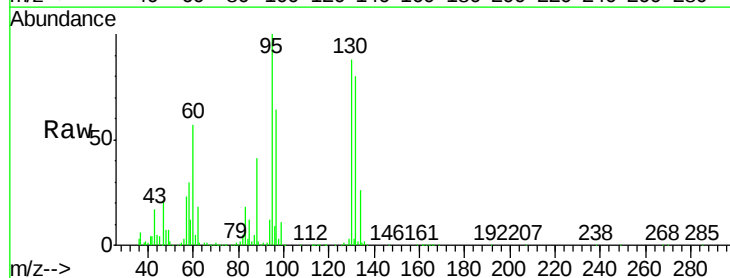
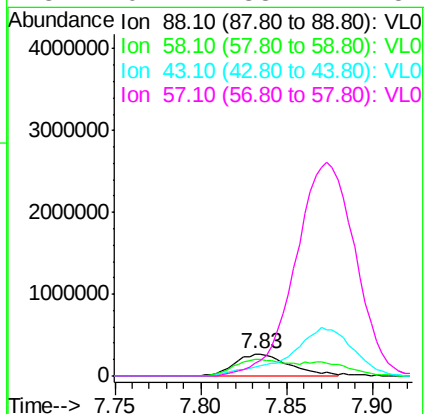
Ion Ratio Lower Upper

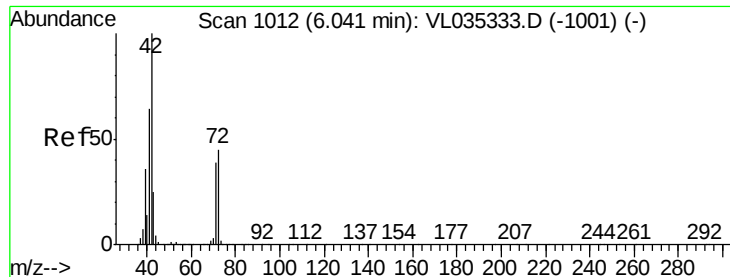
88 100

58 132.3 96.7 145.1

43 258.0 190.7 286.1

57 1074.1 834.1 1251.1





#41

Tetrahydrofuran

Concen: 15.718 ppbv

RT: 6.04 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1444823

Ion Ratio Lower Upper

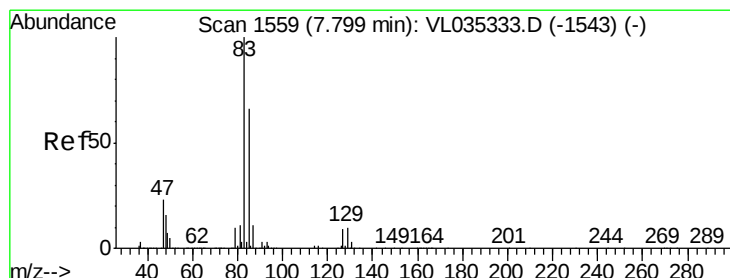
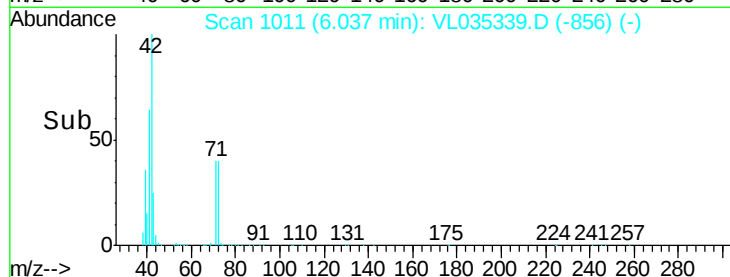
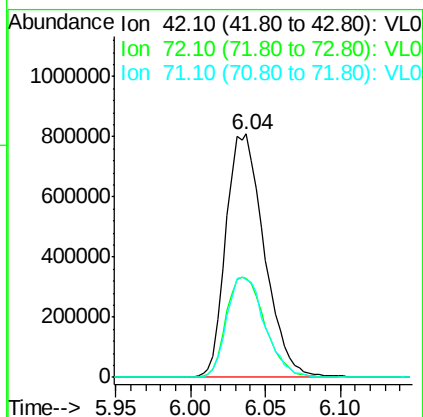
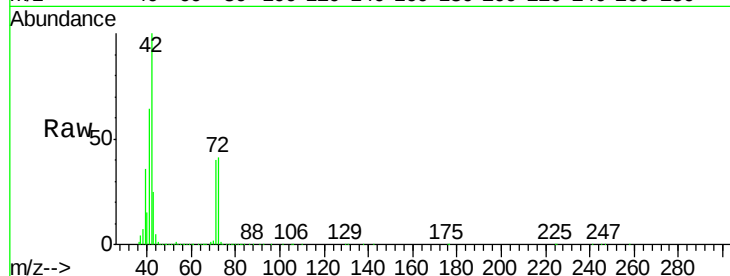
42 100

72 41.8 33.6 50.4

71 41.1 33.1 49.7

Manual Integrations
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#42

Bromodichloromethane

Concen: 13.710 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

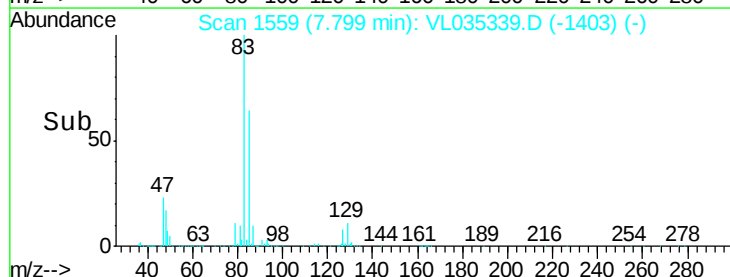
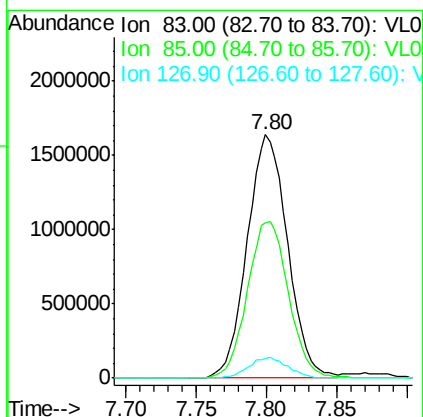
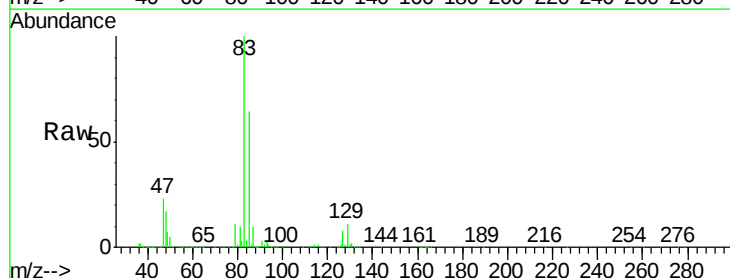
Tgt Ion: 83 Resp: 3288213

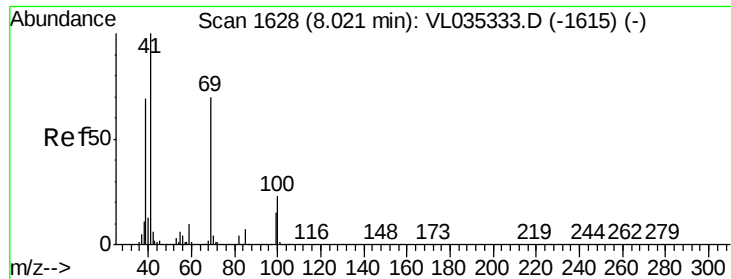
Ion Ratio Lower Upper

83 100

85 63.9 53.1 79.7

127 8.1 6.8 10.2





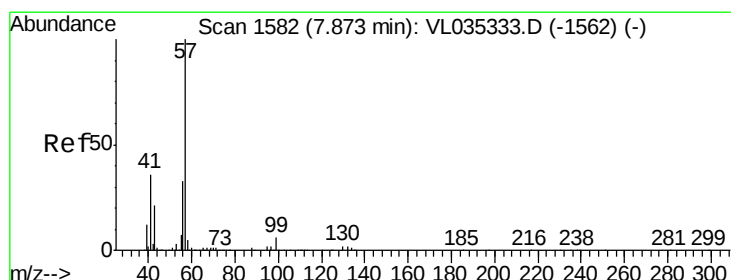
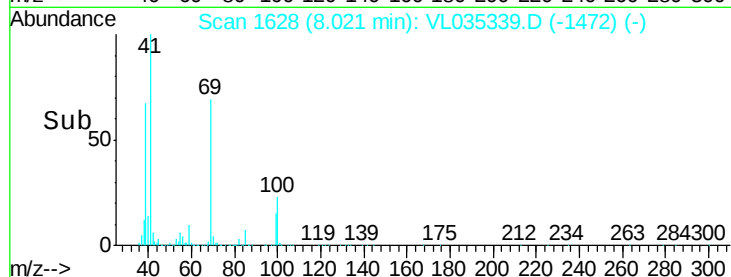
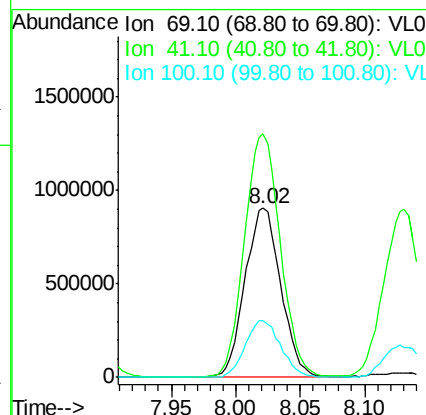
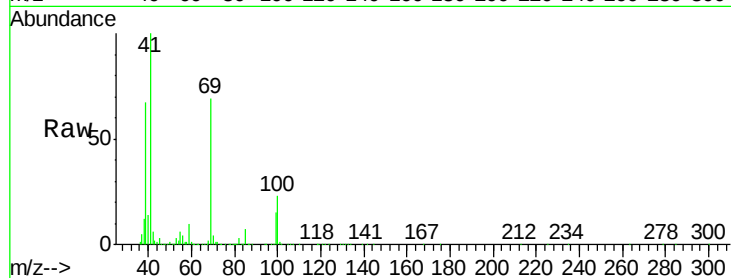
#43
Methvl Methacrilate
Concen: 16.132 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1749026
Ion Ratio Lower Upper
69 100
41 144.7 115.8 173.6
100 33.4 26.7 40.1

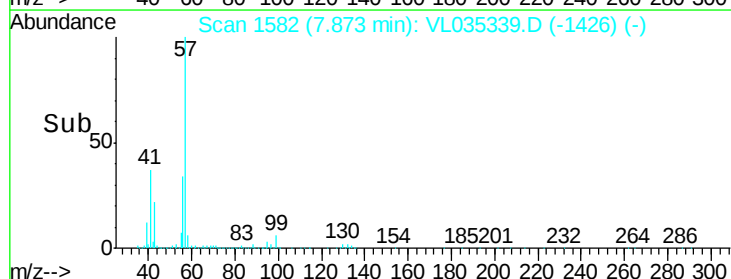
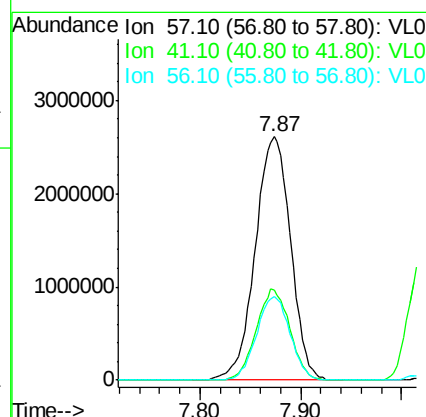
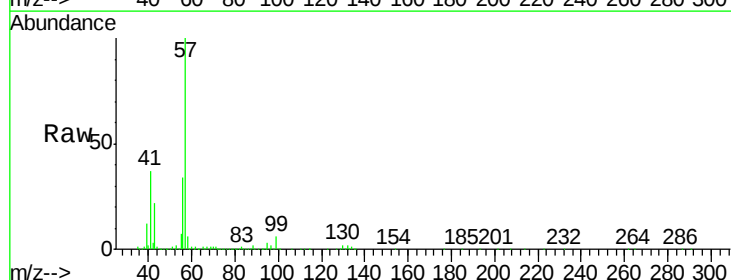
Manual Integrations
APPROVED

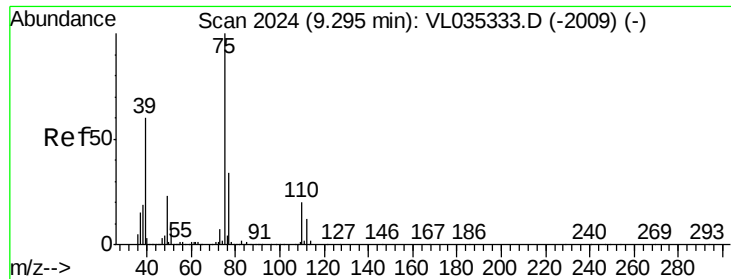
MMDadoda
8/6/2020 12:49:02 PM



#44
2,2,4-Trimethylpentane
Concen: 14.263 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 57 Resp: 6340454
Ion Ratio Lower Upper
57 100
41 35.6 27.9 41.9
56 32.5 25.4 38.0





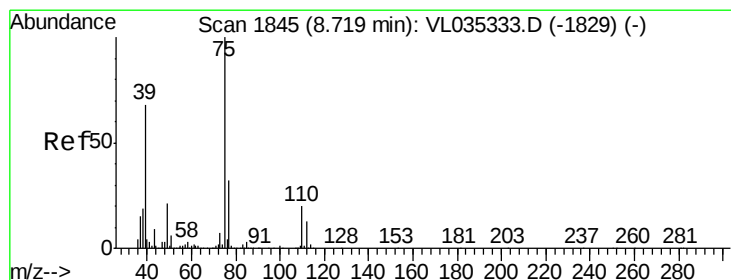
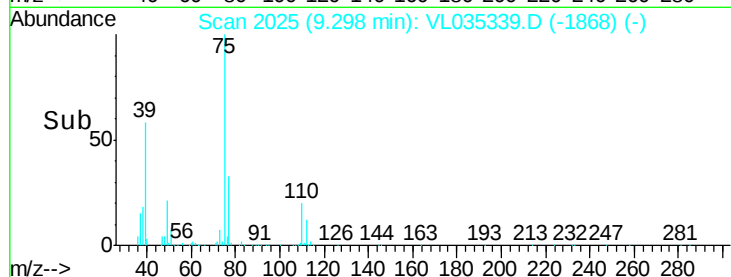
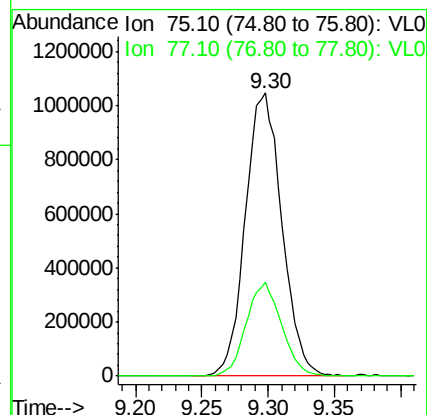
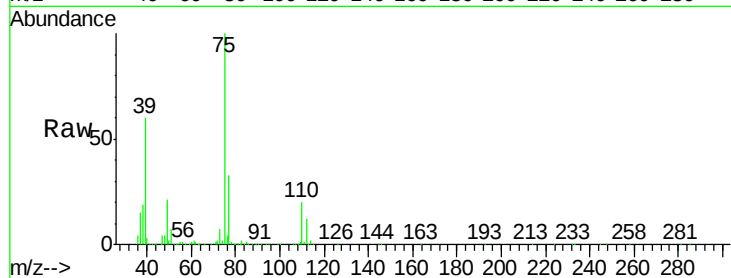
#45
t-1,3-Dichloropropene
Concen: 17.357 ppbv
RT: 9.30 min Scan# 2025
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 2008696
Ion Ratio Lower Upper
75 100
77 33.0 27.0 40.6

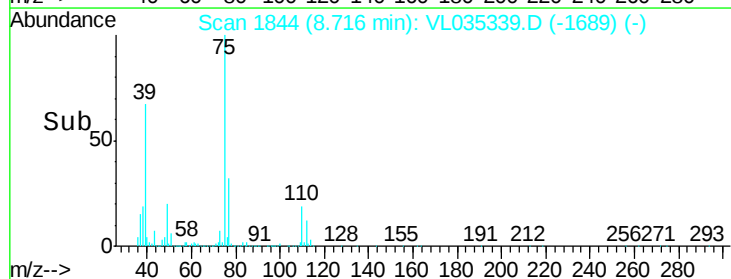
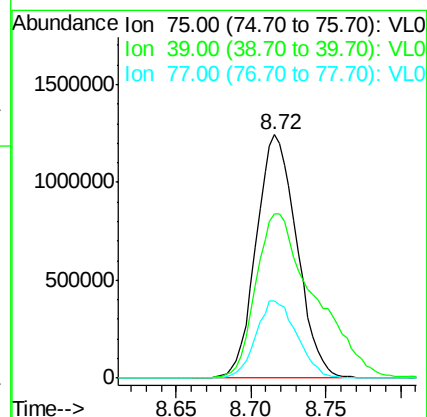
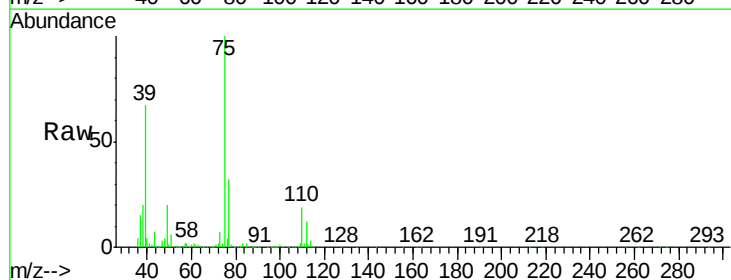
Manual Integrations
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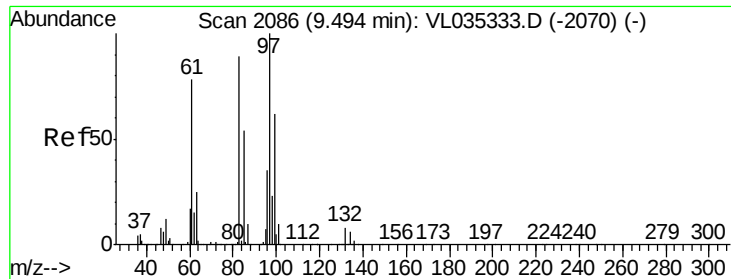
MMDadoda
8/6/2020 12:49:02 PM



#46
cis-1,3-Dichloropropene
Concen: 16.906 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 75 Resp: 2342417
Ion Ratio Lower Upper
75 100
39 67.4 54.2 81.2
77 31.8 25.4 38.2





#47

1,1,2-Trichloroethane

Concen: 14.089 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 1672295

Ion Ratio Lower Upper

97 100

83 88.5 71.3 106.9

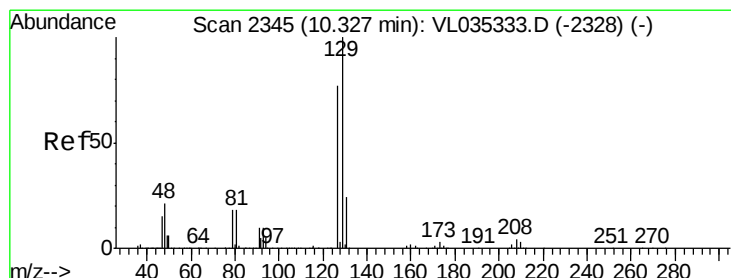
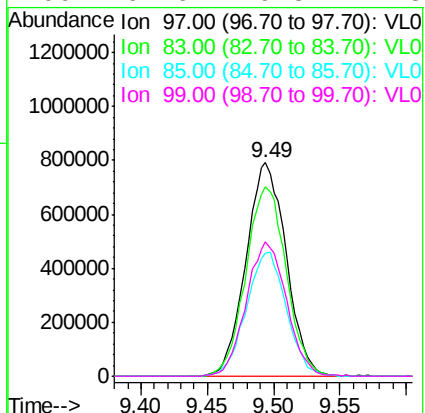
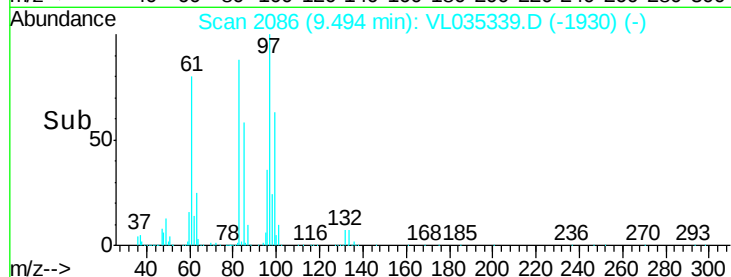
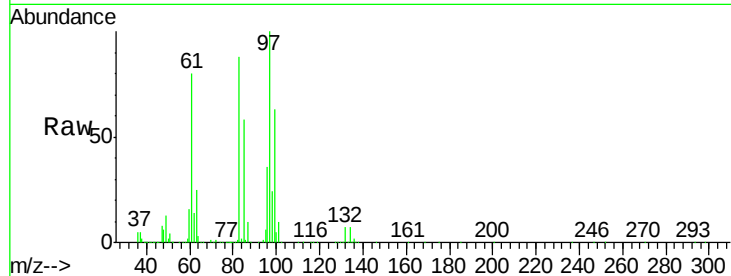
85 57.7 43.3 64.9

99 62.6 49.8 74.8

Manual Integrations
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#48

Dibromochloromethane

Concen: 15.237 ppbv

RT: 10.33 min Scan# 2346

Delta R.T. 0.00 min

Lab File: VL035339.D

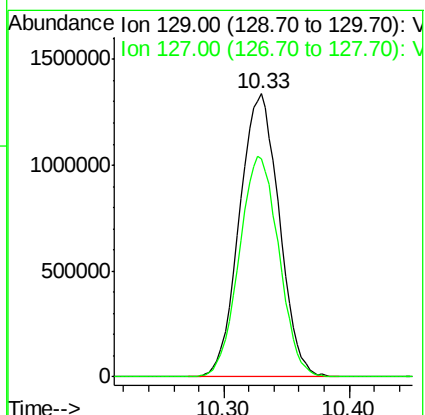
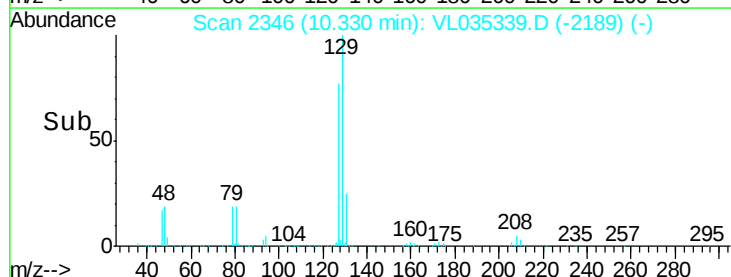
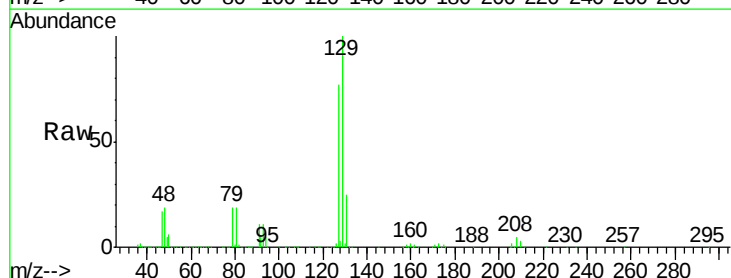
Acq: 5 Aug 2020 12:32

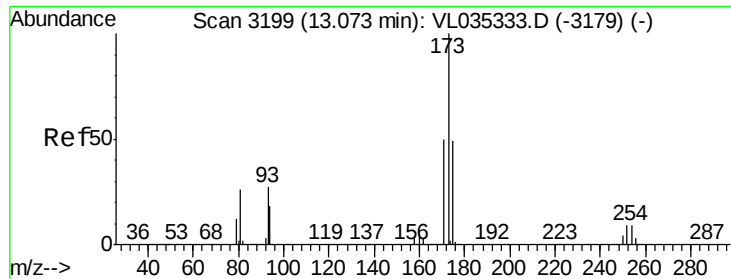
Tgt Ion: 129 Resp: 2942513

Ion Ratio Lower Upper

129 100

127 78.0 39.1 117.2





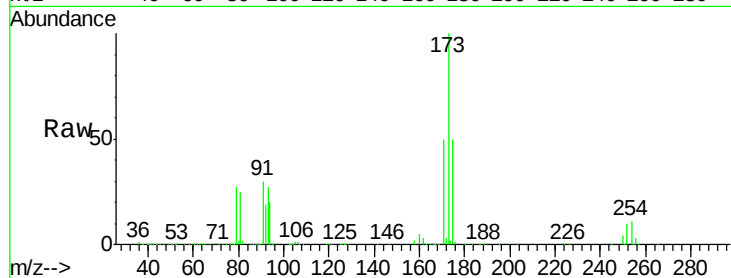
#49
Bromoform
Concen: 16.255 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.9	39.3	58.9
171	52.0	41.2	61.8

Manual Integrations
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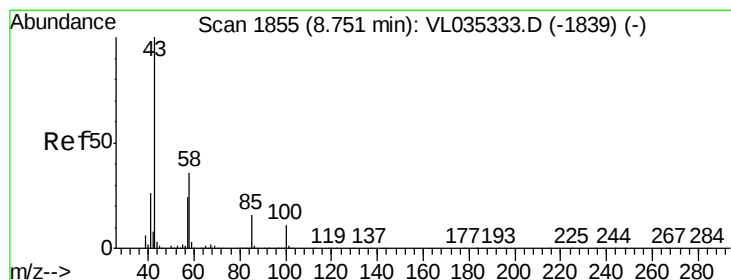
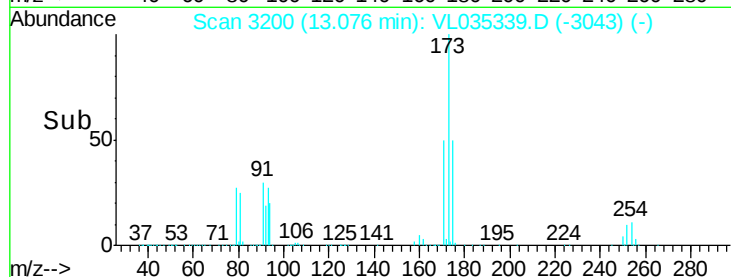
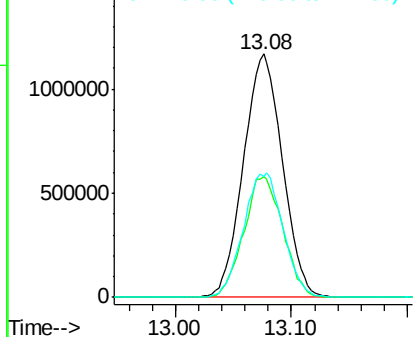


Abundance

Ion 172.90 (172.60 to 173.60): V

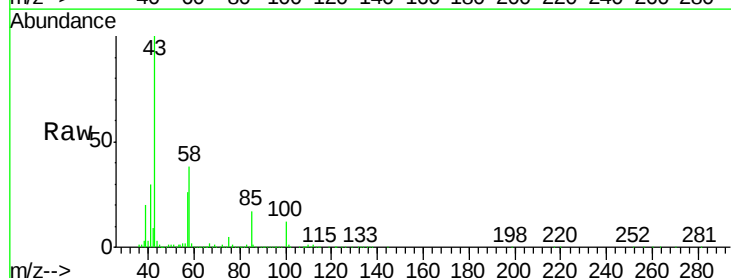
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 15.841 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

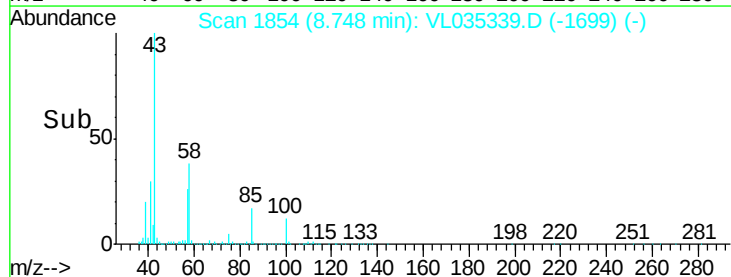
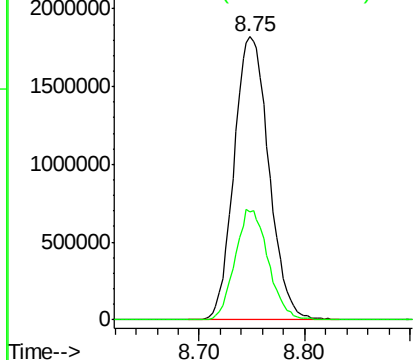
Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.2	43.8

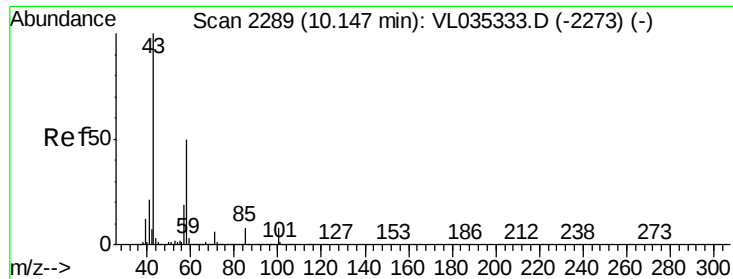


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





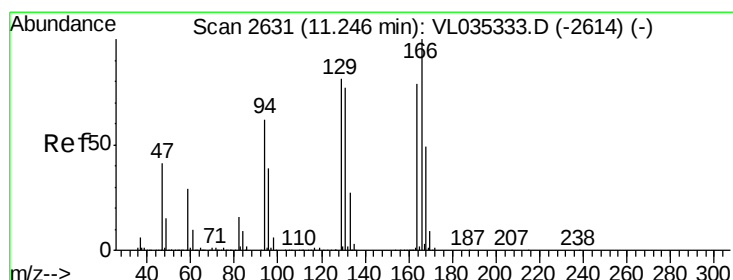
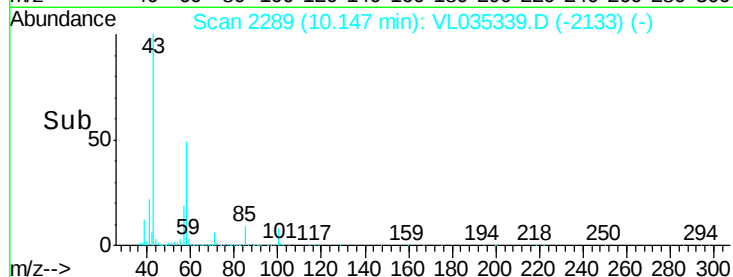
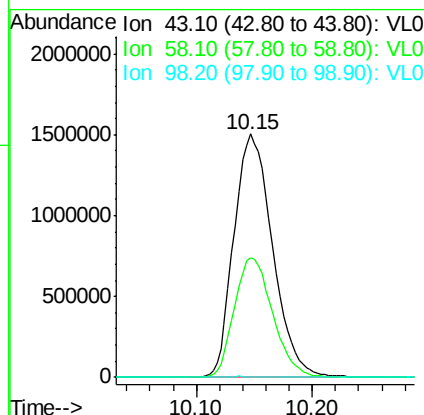
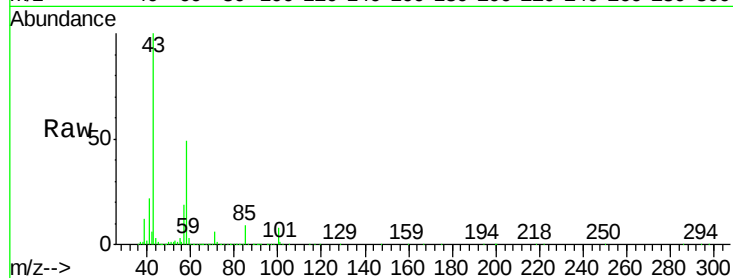
#51
2-Hexanone
Concen: 17.045 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3471077
Ion Ratio Lower Upper
43 100
58 48.9 39.4 59.2
98 0.4 0.2 0.4#

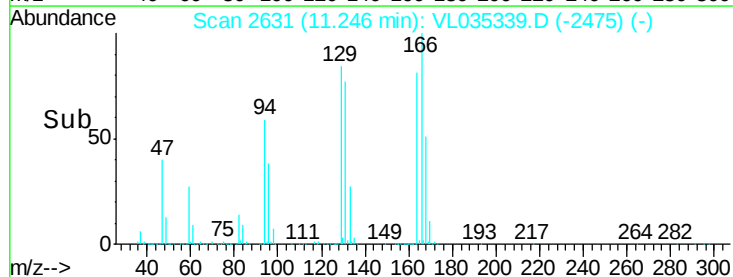
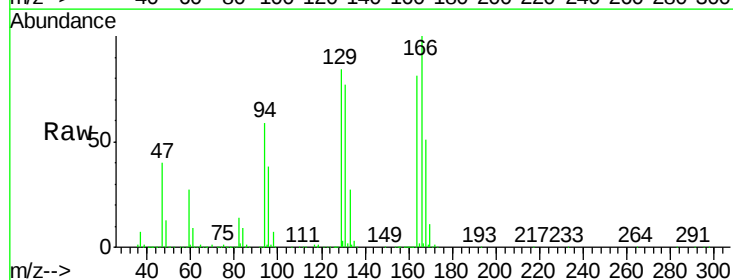
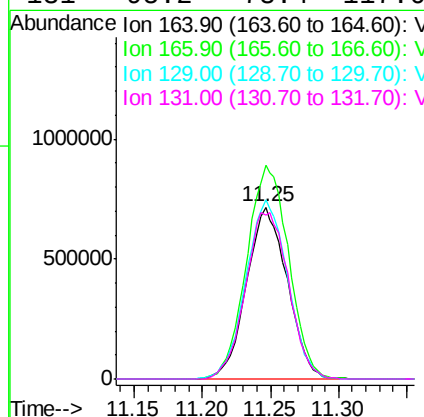
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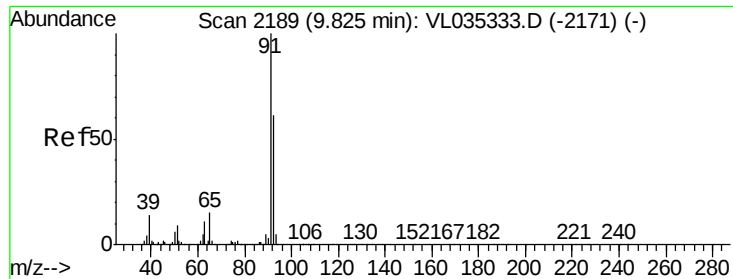
MMDadoda
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#52
Tetrachloroethene
Concen: 16.218 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 164 Resp: 1482598
Ion Ratio Lower Upper
164 100
166 124.1 101.4 152.0
129 104.5 82.1 123.1
131 95.2 78.4 117.6





#53

Toluene

Concen: 16.672 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4549330

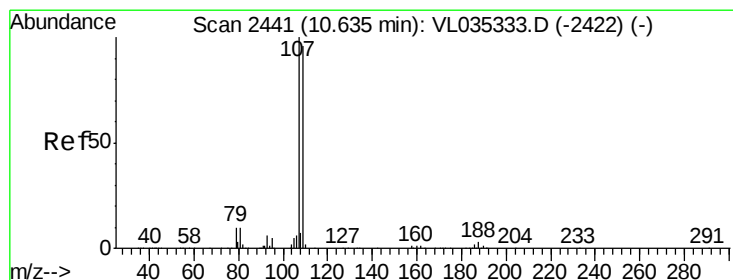
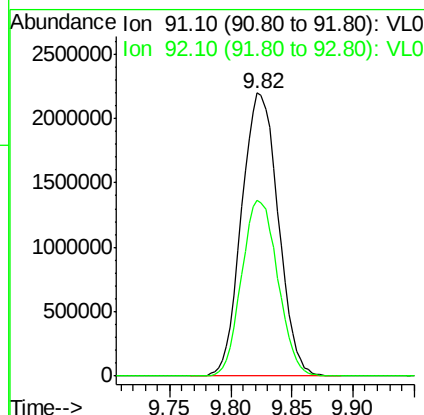
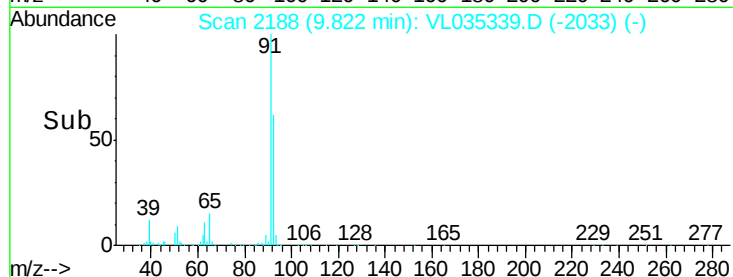
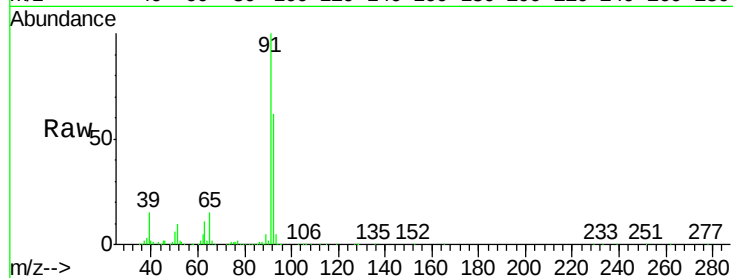
Ion Ratio Lower Upper

91 100

92 61.4 48.5 72.7

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#54

1,2-Dibromoethane

Concen: 14.801 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL035339.D

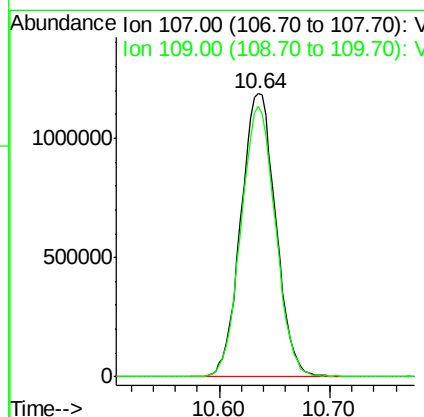
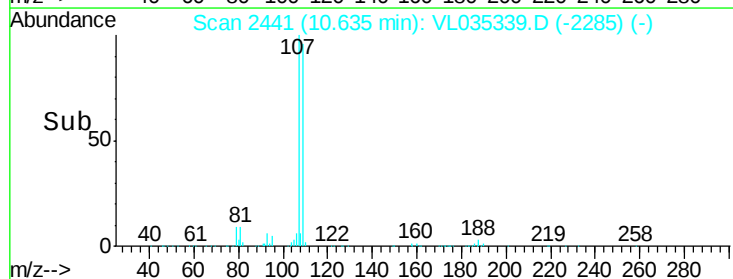
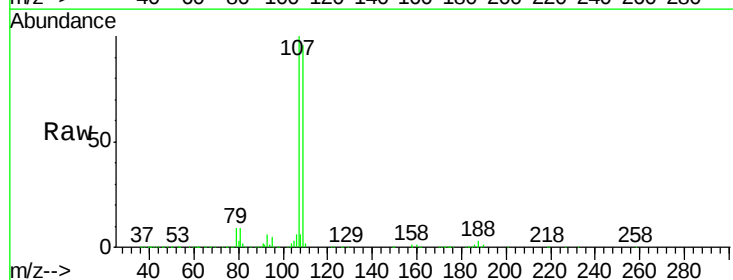
Acq: 5 Aug 2020 12:32

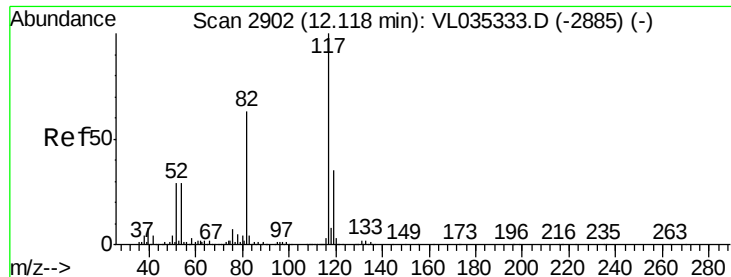
Tgt Ion: 107 Resp: 2600663

Ion Ratio Lower Upper

107 100

109 95.7 76.8 115.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3587761

Ion Ratio Lower Upper

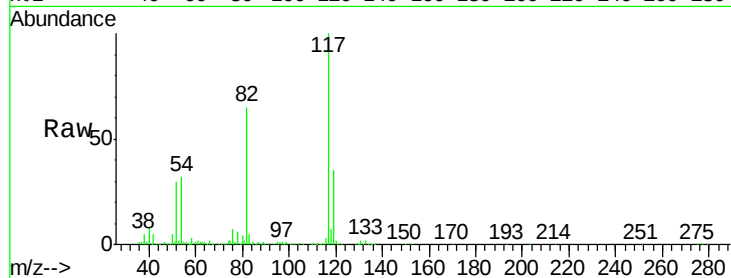
117 100

82 65.3 51.0 76.4

119 31.8 24.7 37.1

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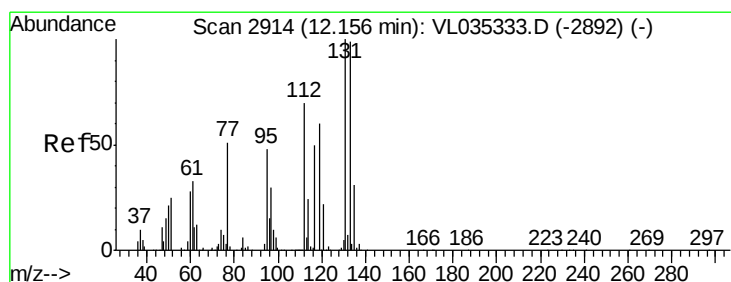
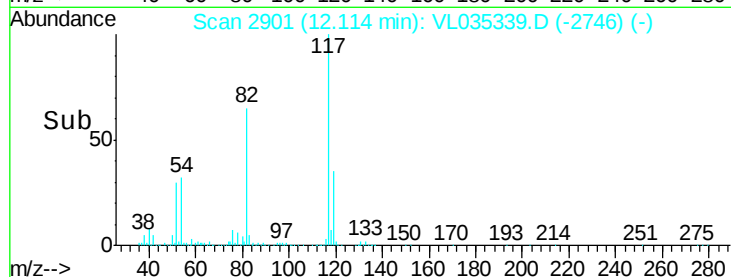
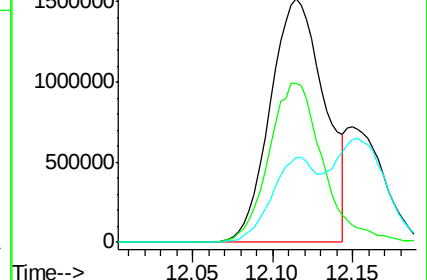
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

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: 13.278 ppbv

RT: 12.15 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

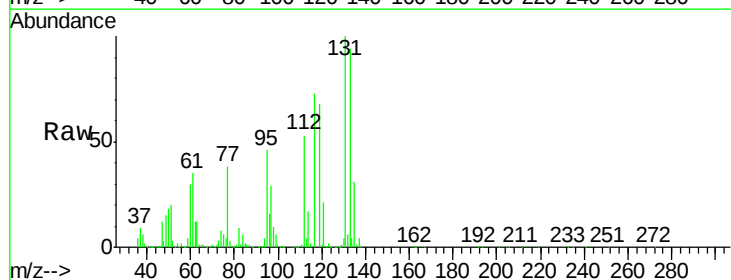
Tgt Ion:131 Resp: 2235706

Ion Ratio Lower Upper

131 100

133 96.5 75.4 113.2

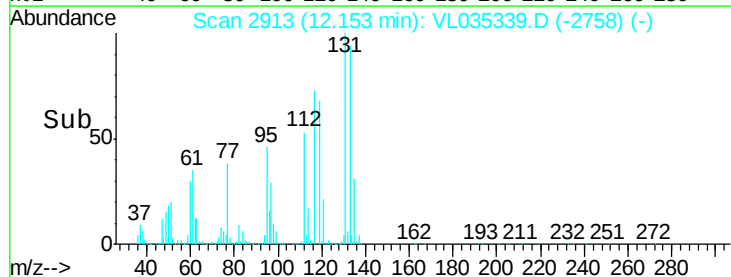
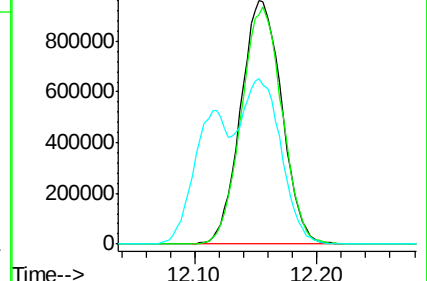
119 70.6 43.7 65.5#

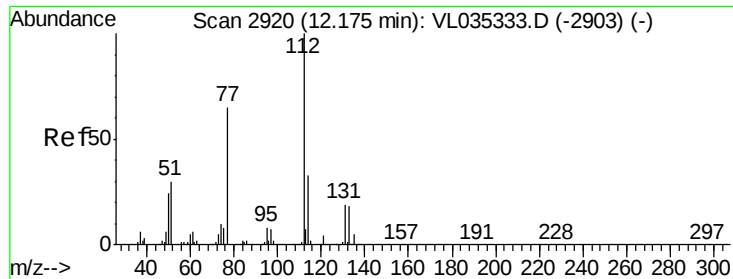


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





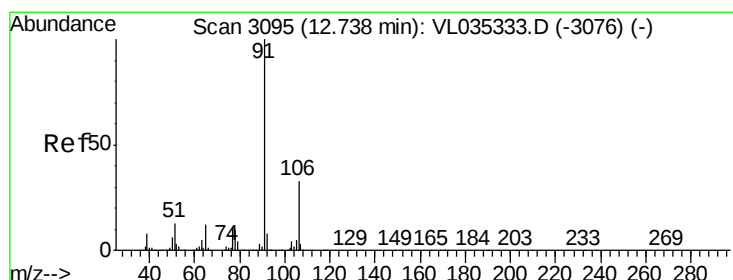
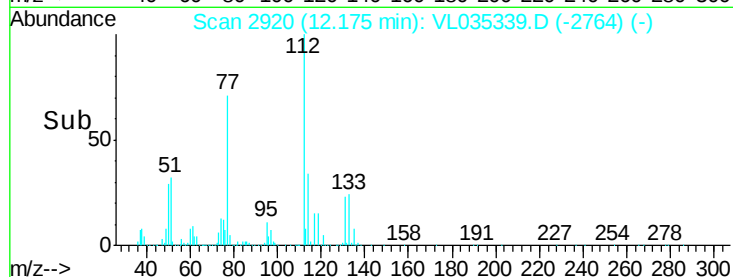
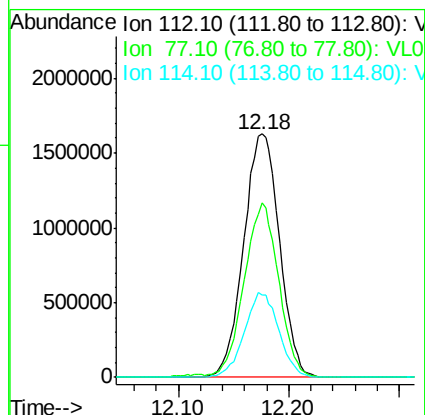
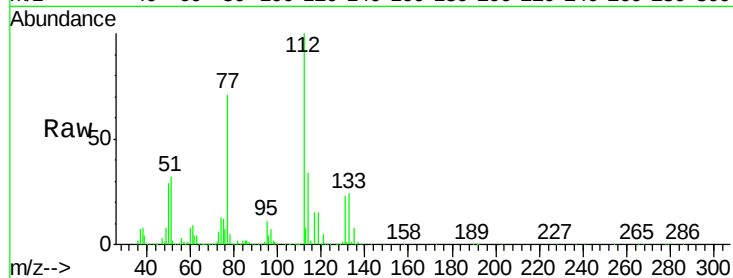
#57
Chlorobenzene
Concen: 13.321 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 112 Resp: 3657682
Ion Ratio Lower Upper
112 100
77 71.4 53.3 79.9
114 33.6 29.8 36.4

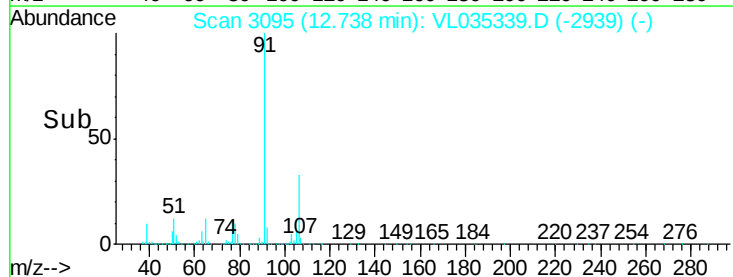
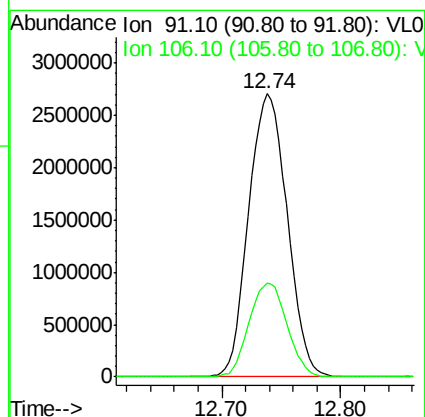
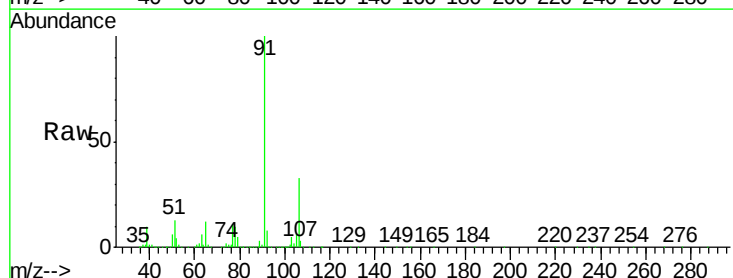
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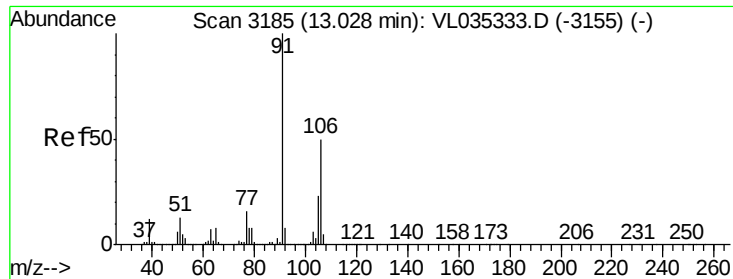
MMDadoda
8/6/2020 12:49:02 PM



#58
Ethyl Benzene
Concen: 15.475 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 91 Resp: 6082794
Ion Ratio Lower Upper
91 100
106 33.4 26.8 40.2





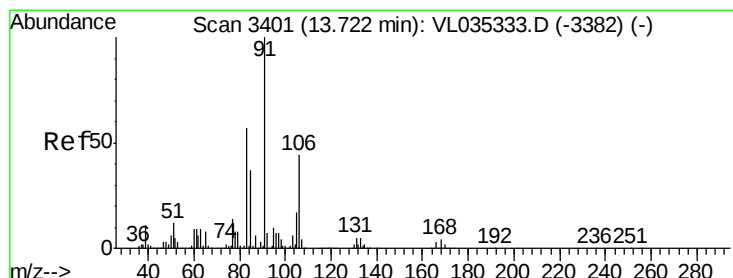
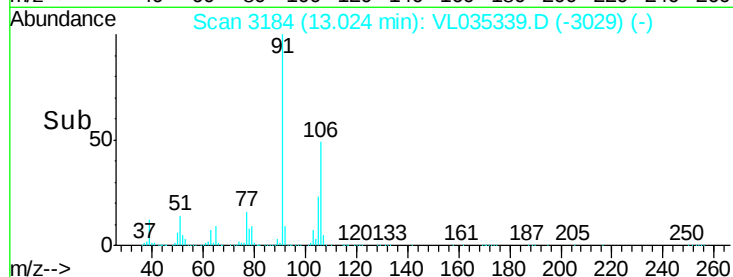
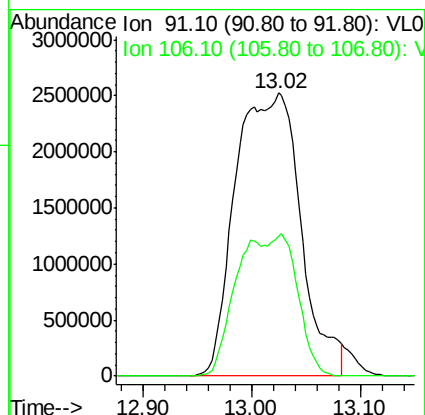
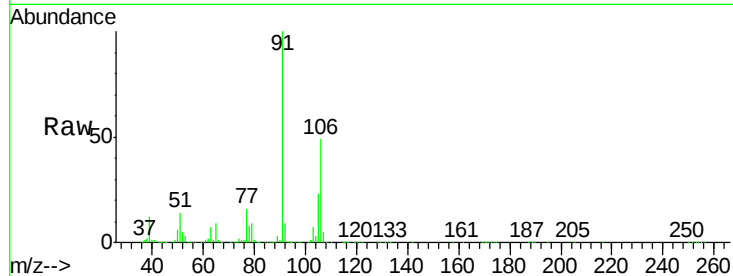
#59
m/p-Xylene
Concen: 28.973 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:10508783
Ion Ratio Lower Upper
91 100
106 46.5 37.8 56.8

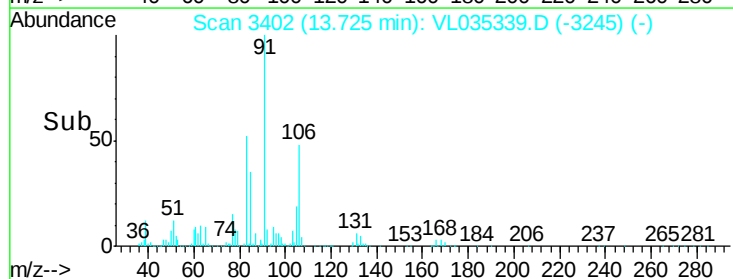
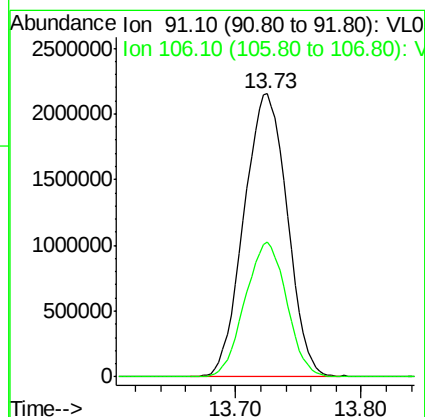
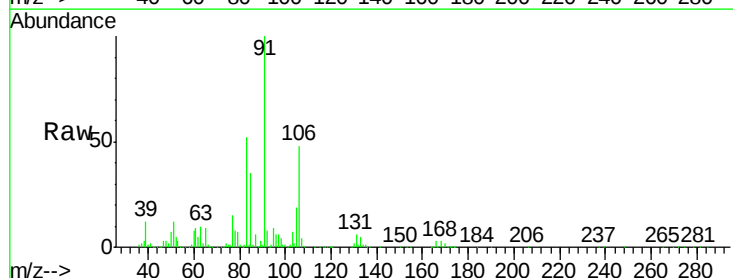
Manual Integrations
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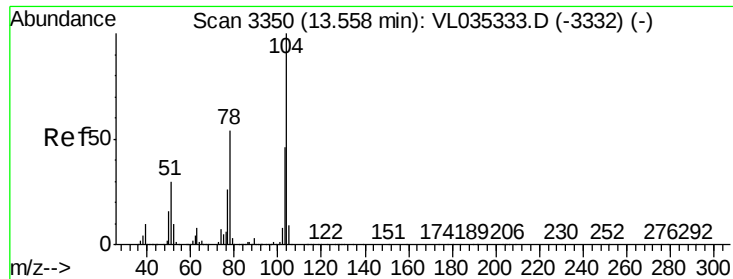
MMDadoda
8/6/2020 12:49:02 PM



#60
o-Xylene
Concen: 14.403 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion: 91 Resp: 5164520
Ion Ratio Lower Upper
91 100
106 45.9 22.7 68.0





#61

Stvrene

Concen: 17.210 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3794377

Ion Ratio Lower Upper

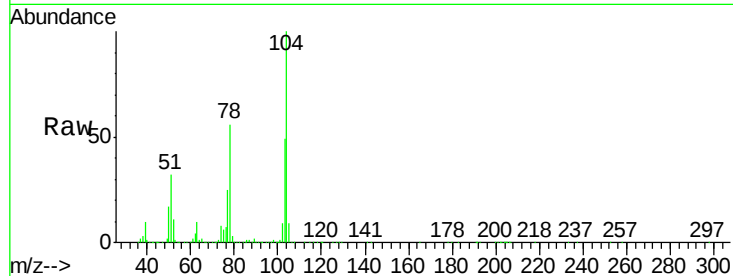
104 100

78 54.0 42.6 63.8

103 48.4 38.1 57.1

Manual Integrations
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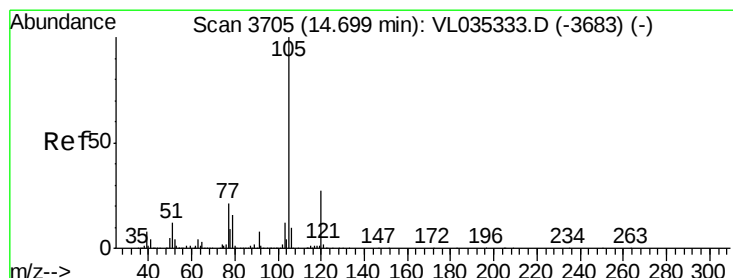
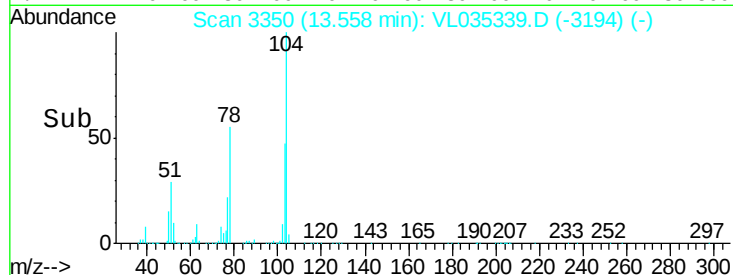
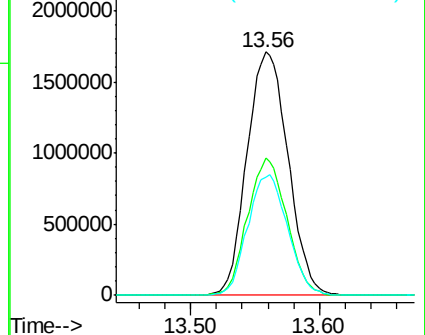
MMDadoda
8/6/2020 12:49:02 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.952 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. 0.00 min

Lab File: VL035339.D

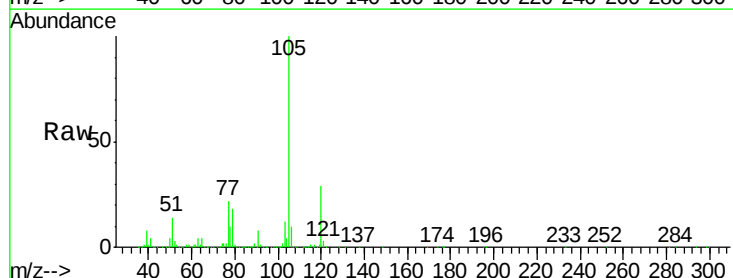
Acq: 5 Aug 2020 12:32

Tgt Ion:105 Resp: 7546651

Ion Ratio Lower Upper

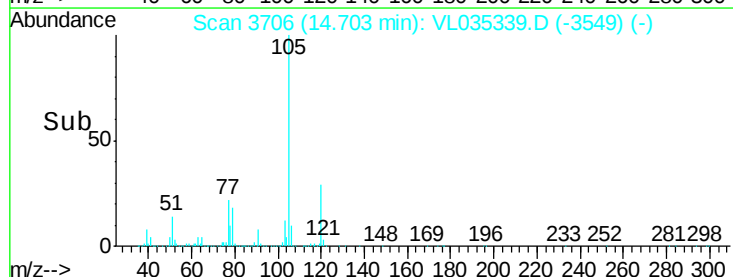
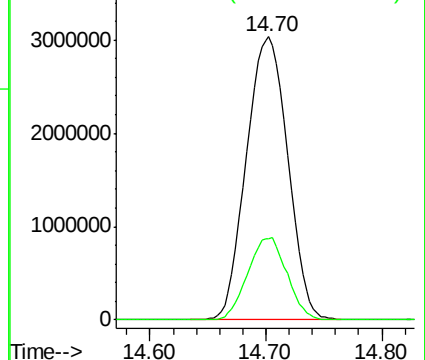
105 100

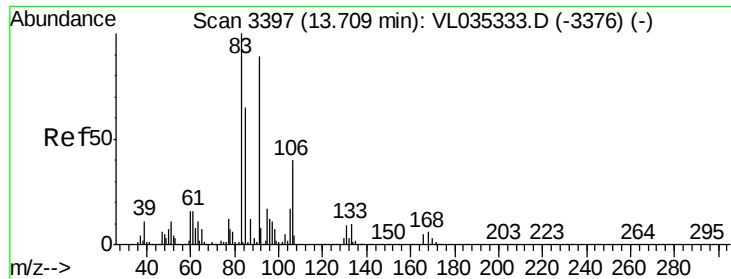
120 27.6 21.1 31.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





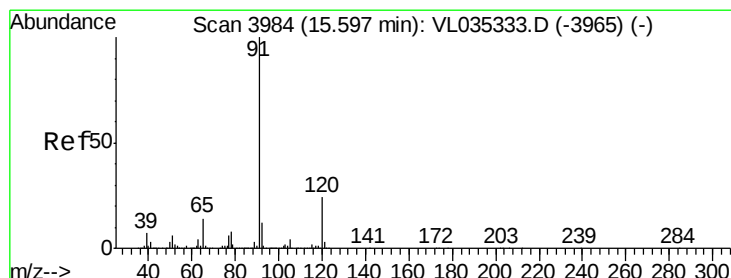
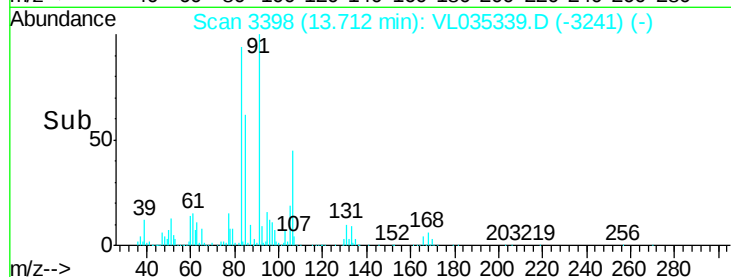
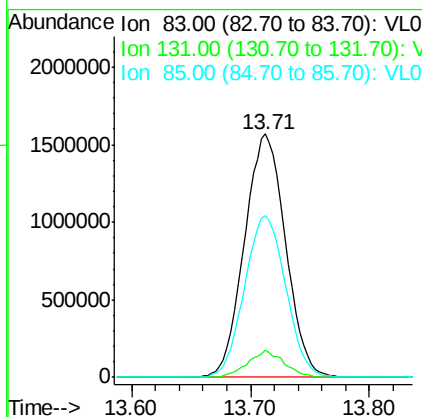
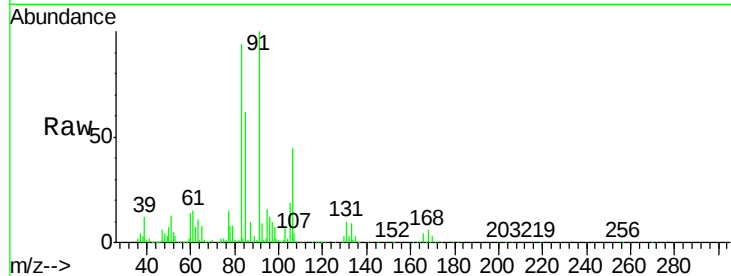
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.345 ppbv
 RT: 13.71 min Scan# 3398
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	83	Resp	3753400
Ion Ratio	100	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	66.7	32.6	98.0

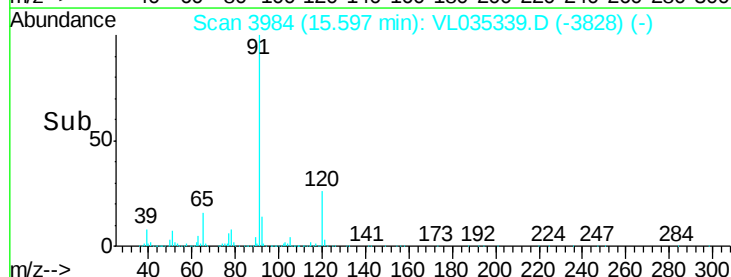
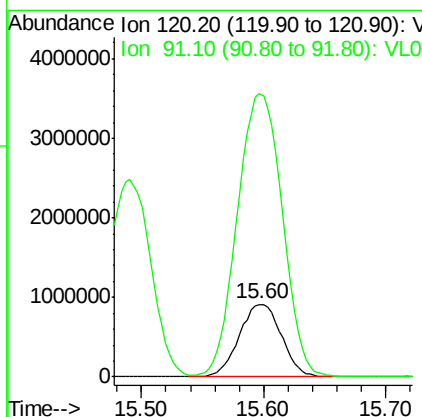
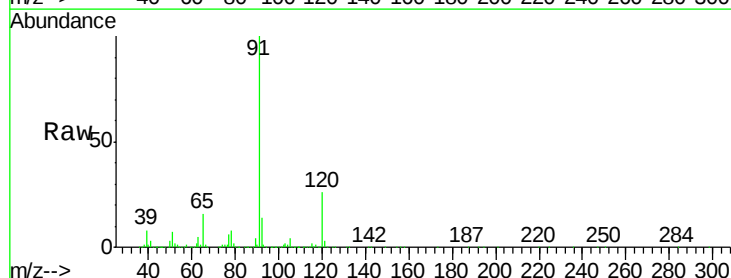
Manual Integrations
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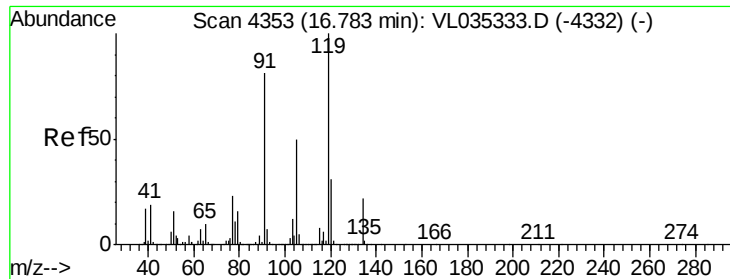
MMDadoda
 8/6/2020 12:49:02 PM



#64
 n-propylbenzene
 Concen: 15.365 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Tgt Ion	120	Resp	2174210
Ion Ratio	100	Lower	Upper
120	100		
91	418.8	357.2	535.8





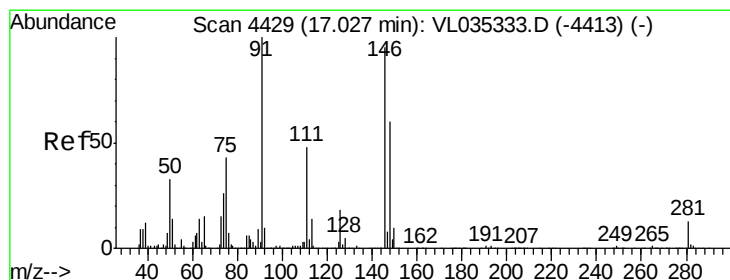
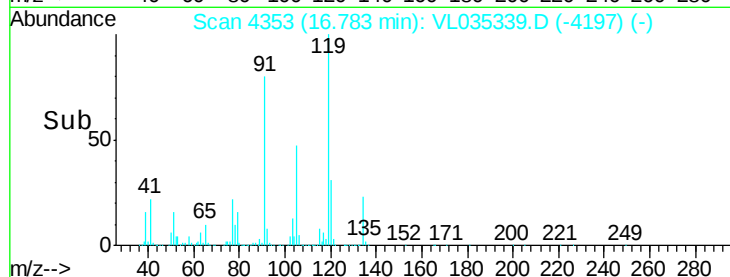
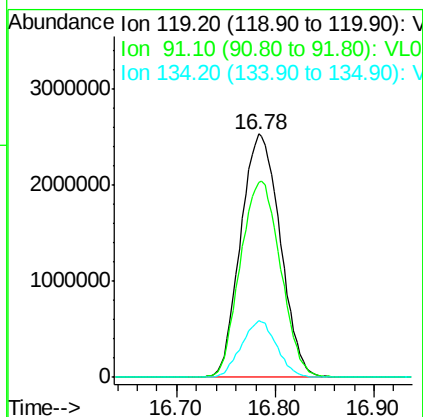
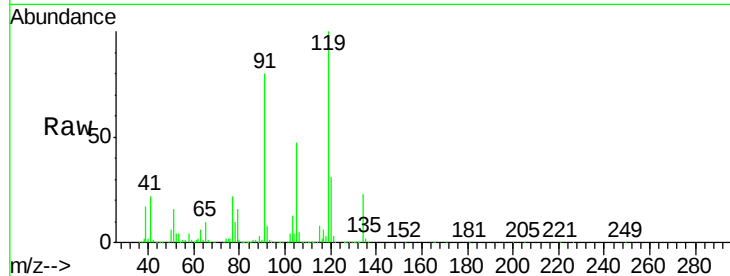
#65
tert-Butylbenzene
Concen: 14.415 ppbv
RT: 16.78 min Scan# 4353
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	82.3	66.3	99.5
134	20.7	16.2	24.2

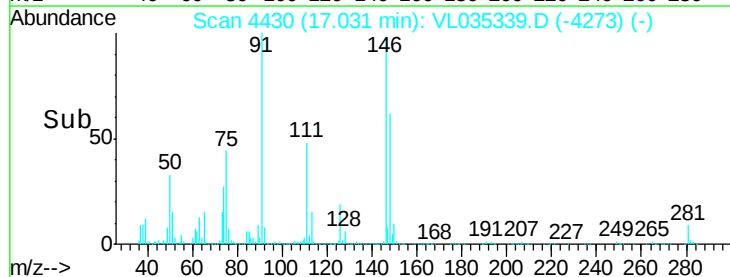
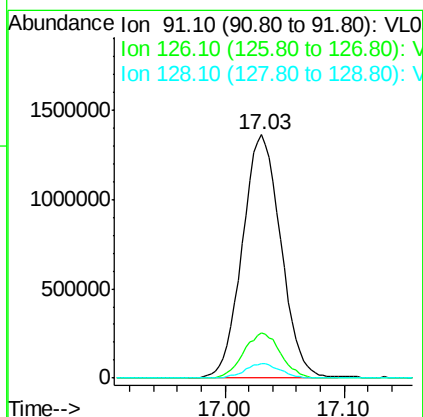
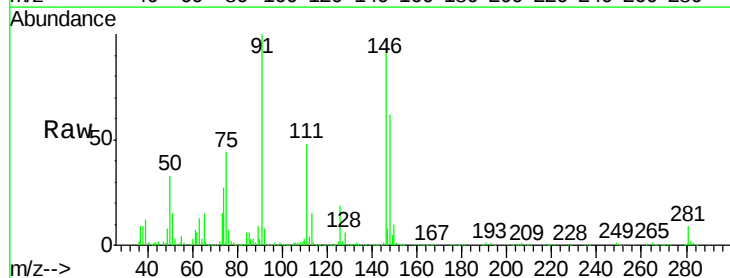
Manual Integrations
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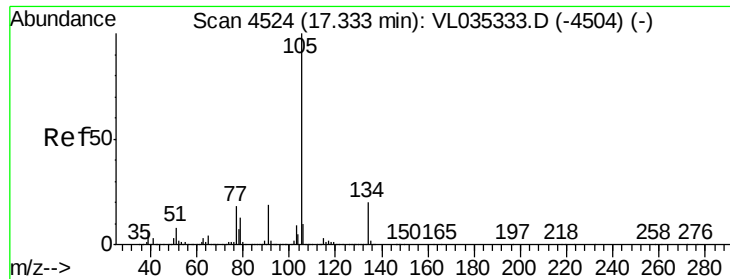
MMDadoda
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#66
Benzyl Chloride
Concen: 16.297 ppbv
RT: 17.03 min Scan# 4430
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.9	14.1	21.1
128	5.5	4.5	6.7





#67

sec-Butylbenzene

Concen: 13.870 ppbv

RT: 17.34 min Scan# 4525

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 105 Resp: 9498727

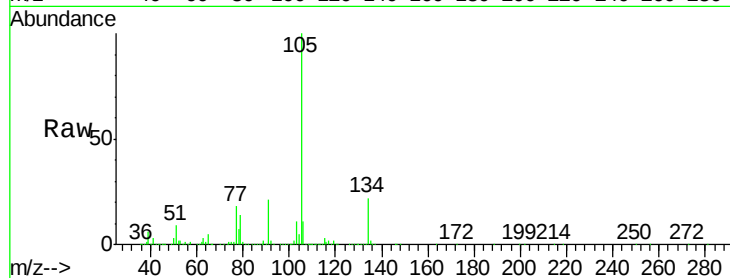
Ion Ratio Lower Upper

105 100

134 20.1 15.4 23.2

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

17.34

4000000

3000000

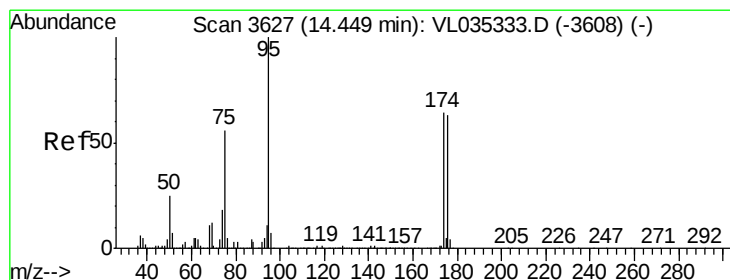
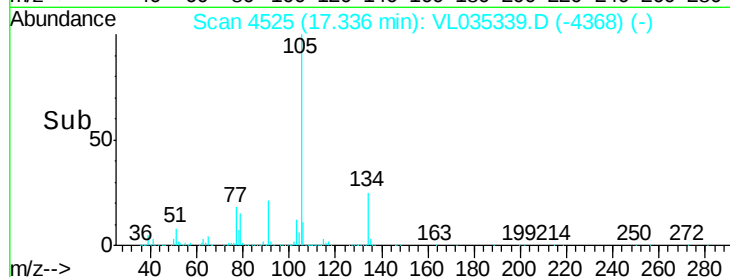
2000000

1000000

0

17.30 17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.628 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

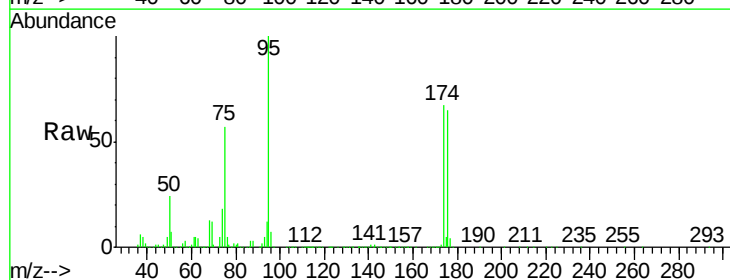
Tgt Ion: 95 Resp: 2893564

Ion Ratio Lower Upper

95 100

174 68.0 53.5 80.3

175 5.3 4.2 6.2



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

14.45

1500000

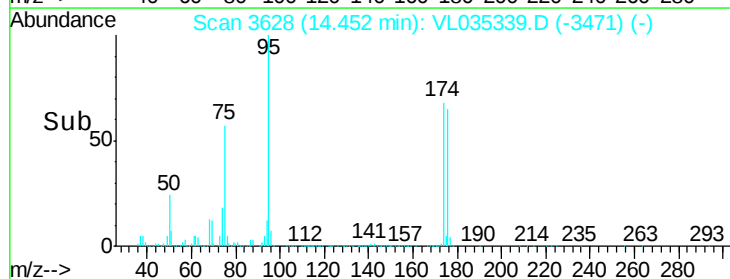
1000000

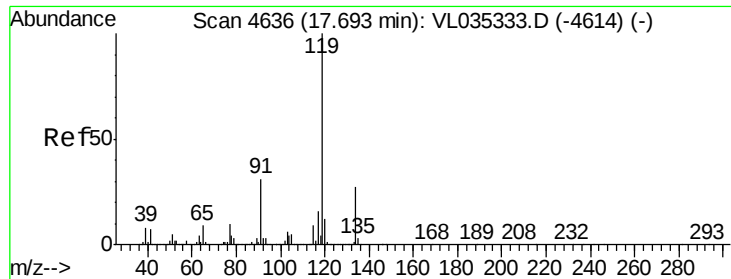
500000

0

14.40 14.50

Time-->





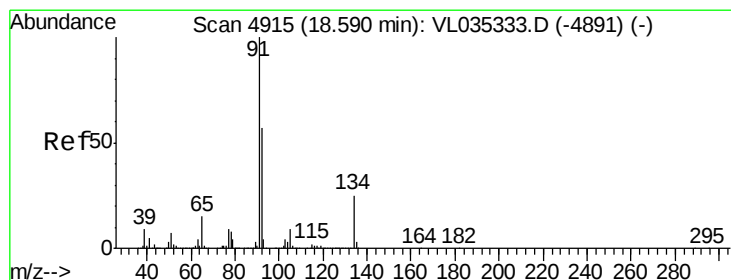
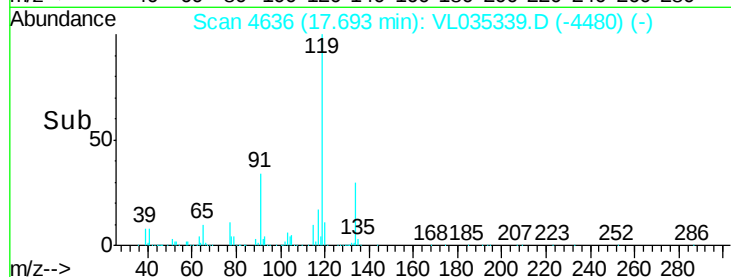
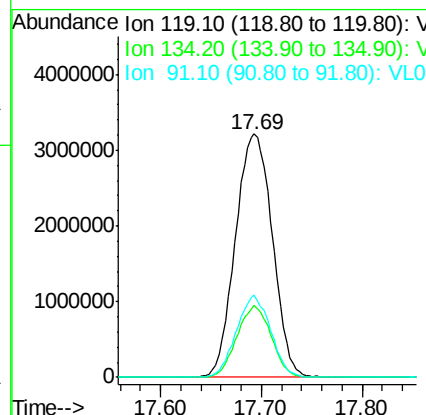
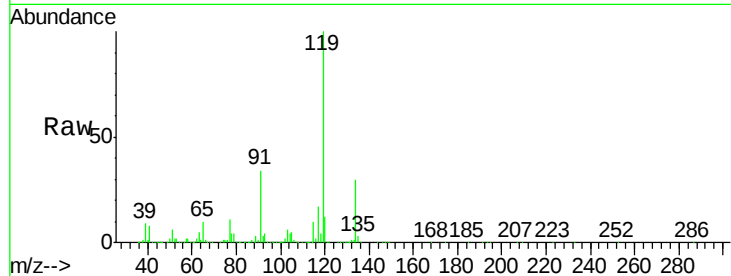
#69
 p-Isopropyltoluene
 Concen: 14.425 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.4	21.1	31.7
91	31.4	24.5	36.7

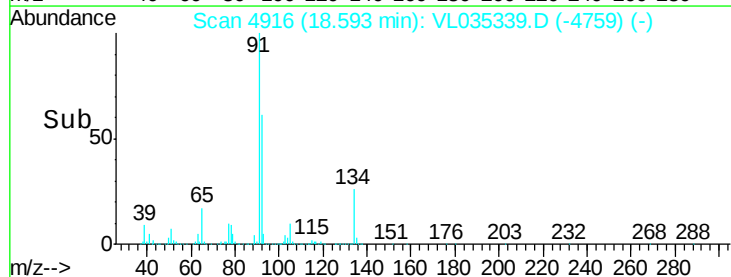
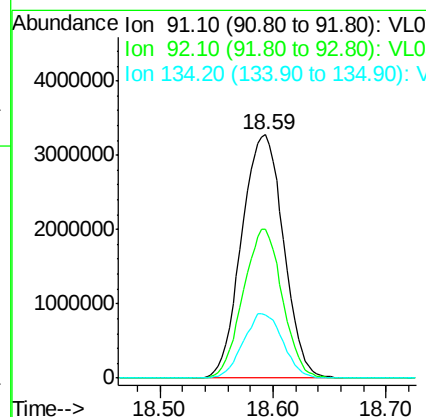
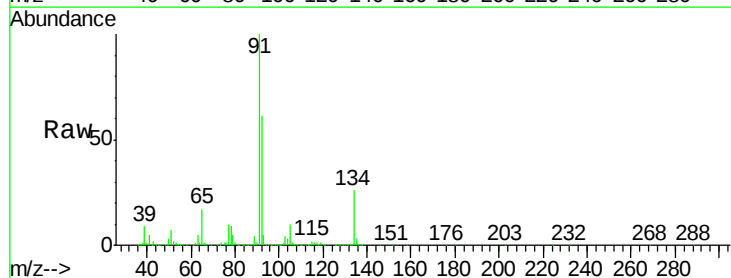
Manual Integrations
 APPROVED

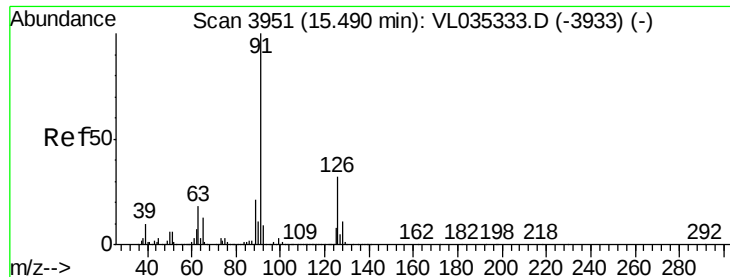
MMDadoda
 8/6/2020 12:49:02 PM



#70
 n-Butylbenzene
 Concen: 13.821 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	44.2	66.2
134	25.1	19.0	28.6





#71

2-Chlorotoluene

Concen: 14.838 ppbv

RT: 15.49 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5990333

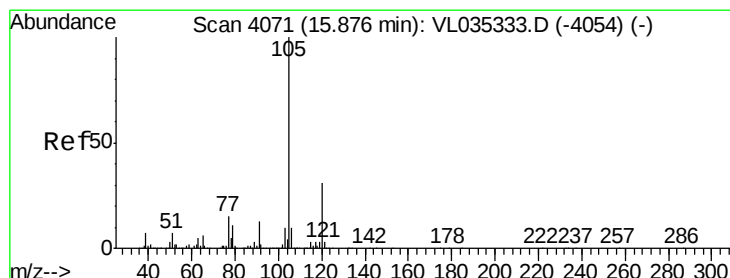
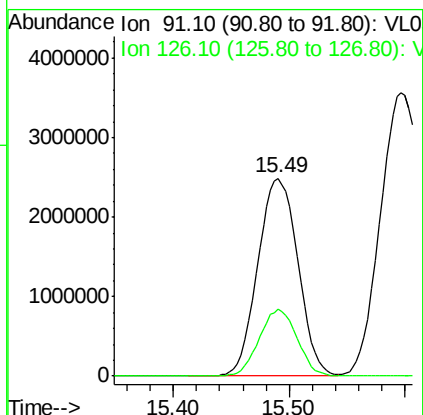
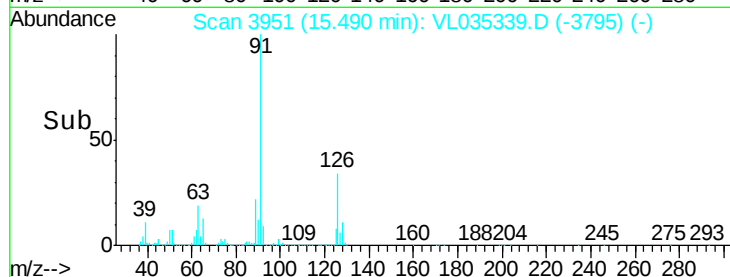
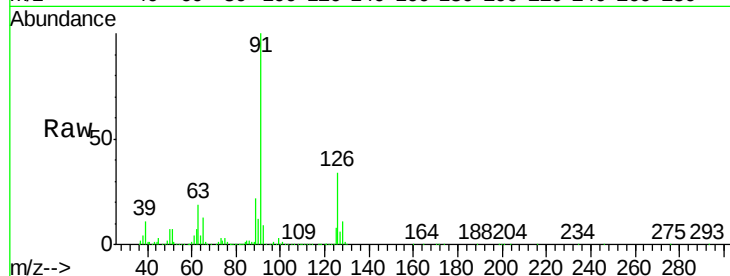
Ion Ratio Lower Upper

91 100

126 32.0 12.5 50.1

Manual Integrations
APPROVED

MMDadoda
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#72

4-Ethyltoluene

Concen: 15.450 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tgt Ion: 105 Resp: 6250889

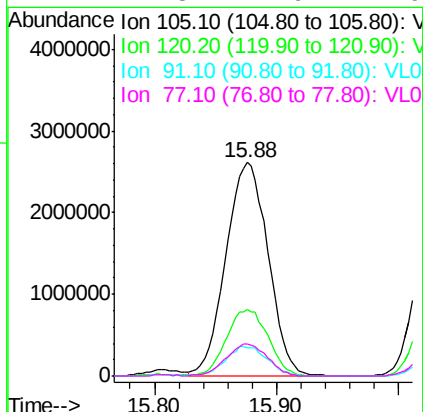
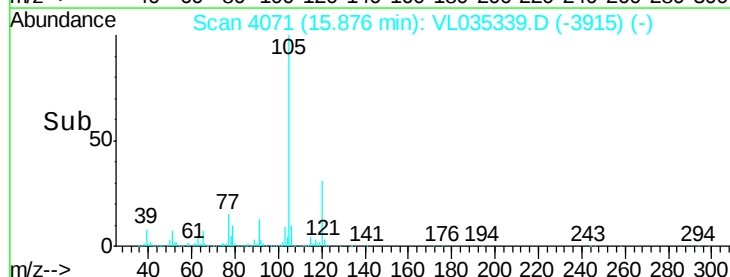
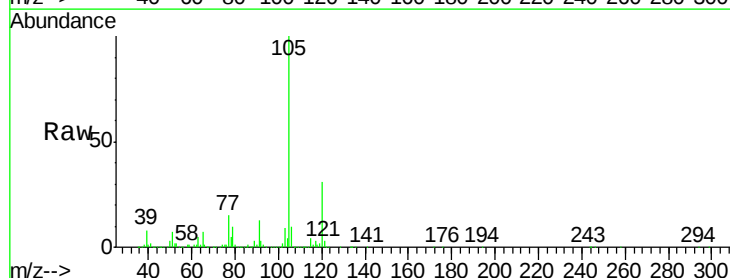
Ion Ratio Lower Upper

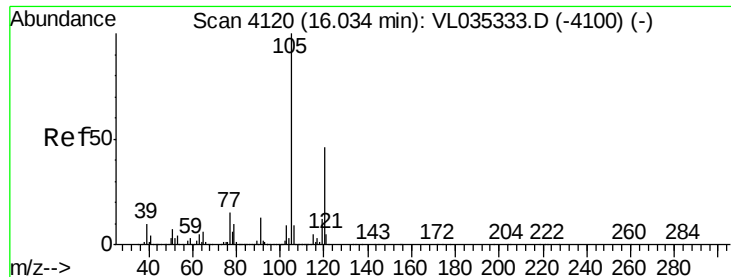
105 100

120 31.0 24.0 36.0

91 13.8 10.8 16.2

77 14.8 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 14.940 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5920952

Ion Ratio Lower Upper

105 100

120 48.4

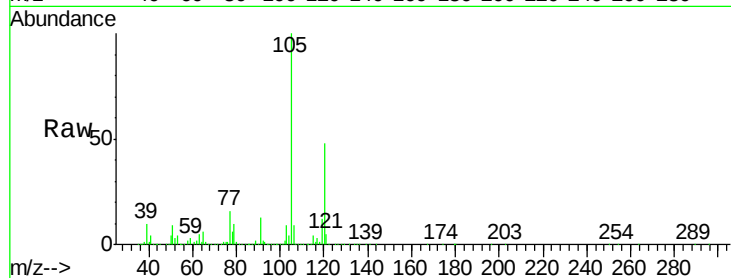
36.9

55.3

Manual Integrations
APPROVED

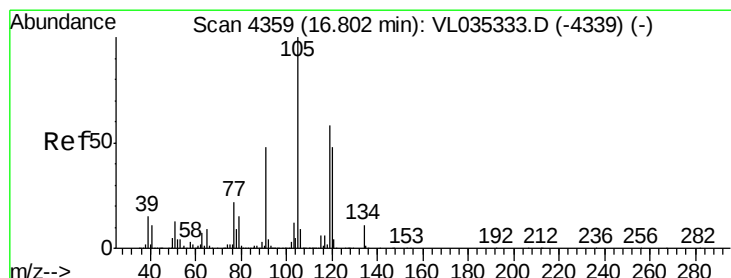
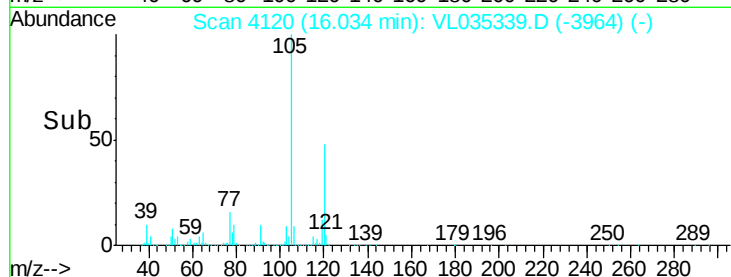
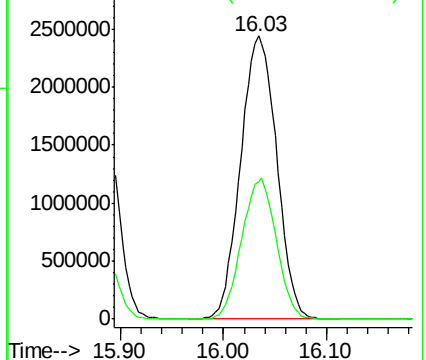
MMDadoda

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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: 13.501 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Tgt Ion:105 Resp: 6134918

Ion Ratio Lower Upper

105 100

120 51.5

38.5

57.7

91 45.0

39.0

58.6

77 22.4

17.8

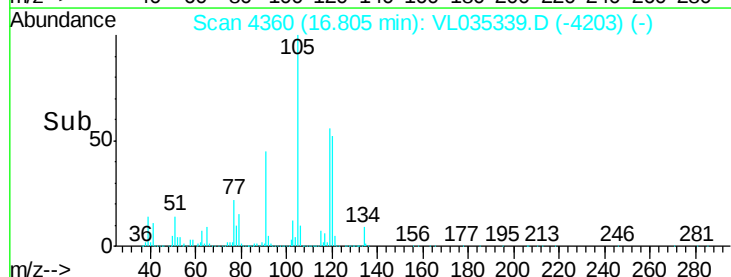
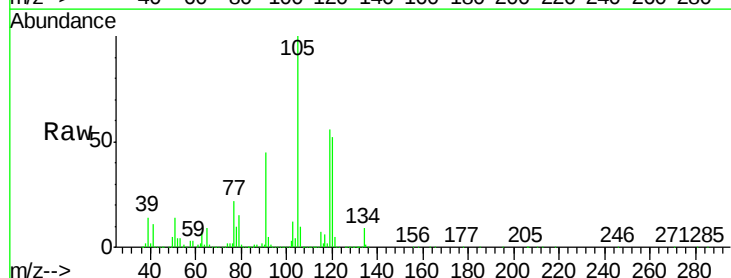
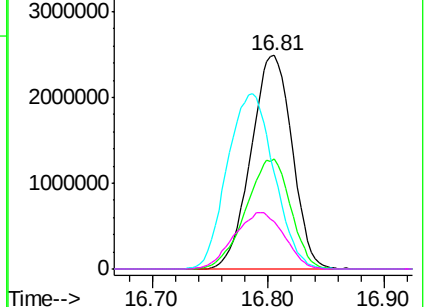
26.6

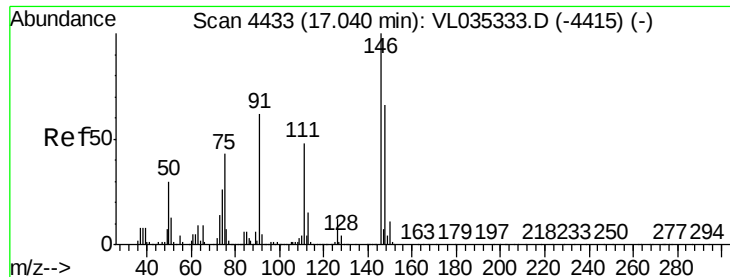
Abundance Ion 105.10 (104.80 to 105.80): V

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: 13.400 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3787675

Ion Ratio Lower Upper

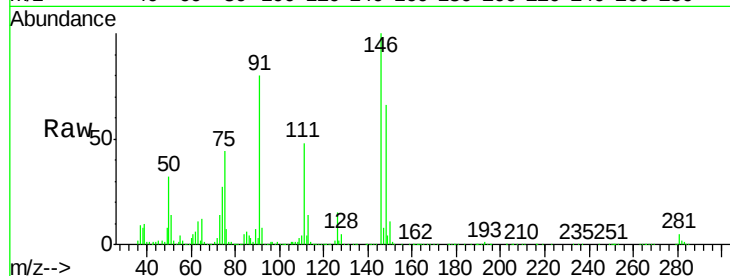
146 100

111 48.3 24.2 72.6

148 65.2 32.6 98.0

Manual Integrations
APPROVED

MMDadoda
8/6/2020 12:49:02 PM

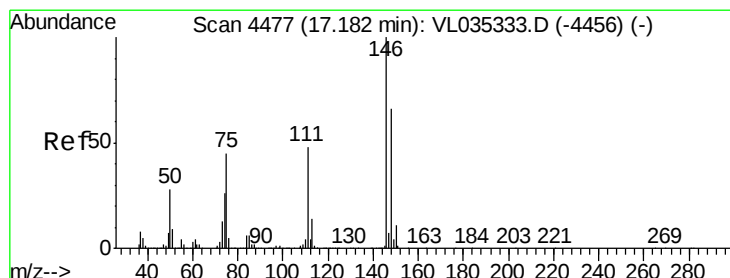
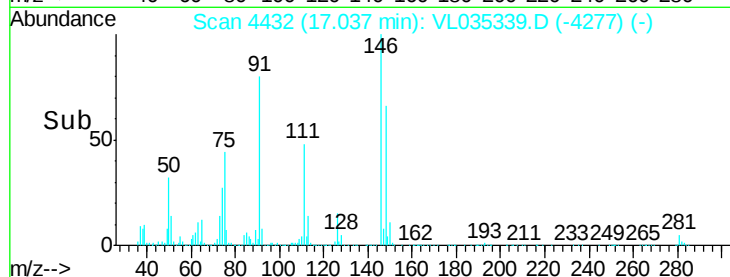
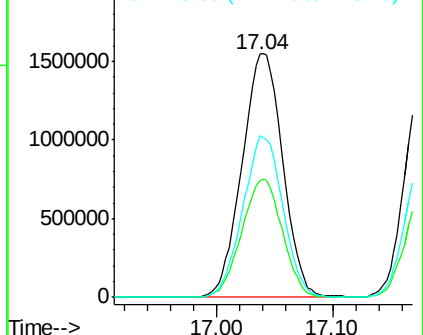


Abundance

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



#76

1,4-Dichlorobenzene

Concen: 13.962 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. 0.00 min

Lab File: VL035339.D

Acq: 5 Aug 2020 12:32

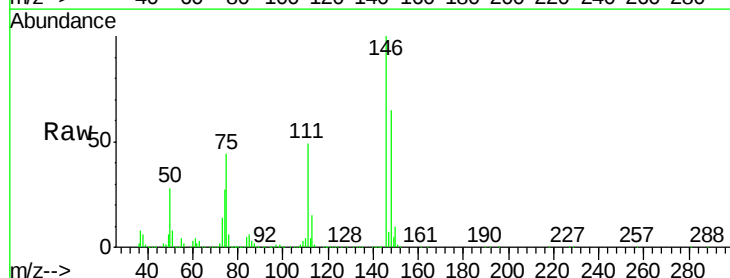
Tgt Ion:146 Resp: 3735758

Ion Ratio Lower Upper

146 100

111 47.7 23.3 69.9

148 65.8 32.1 96.5

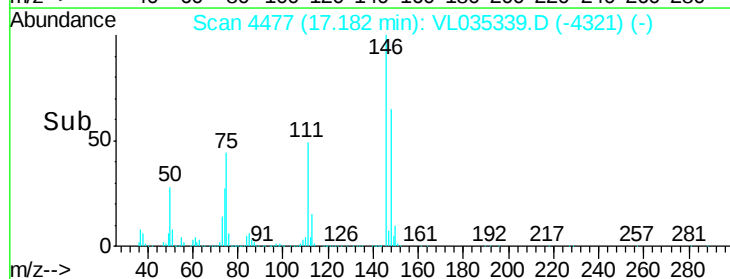
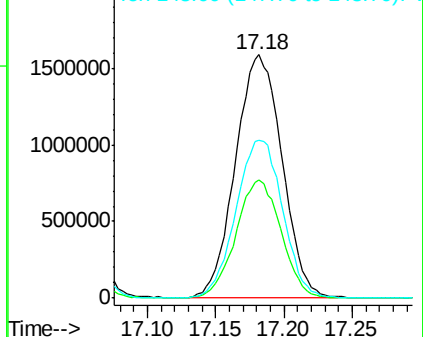


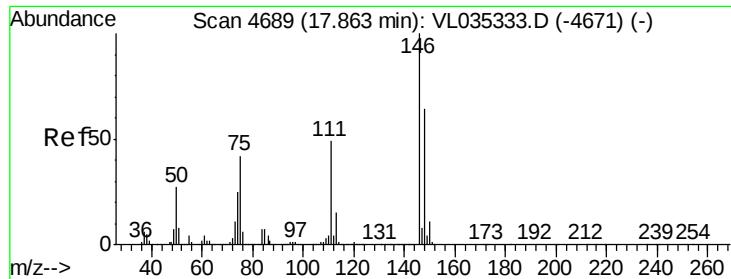
Abundance

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





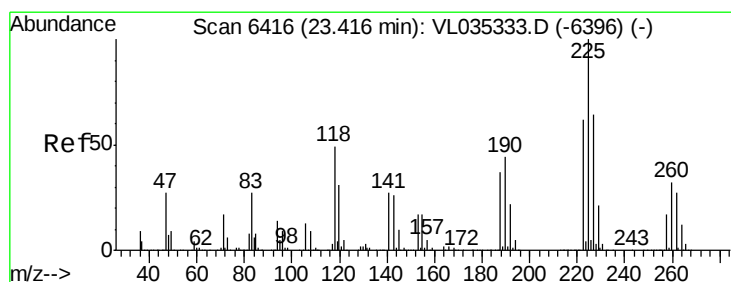
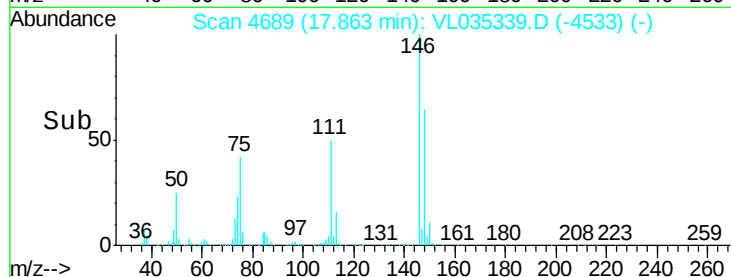
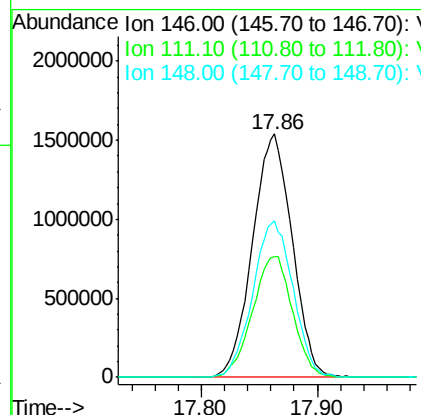
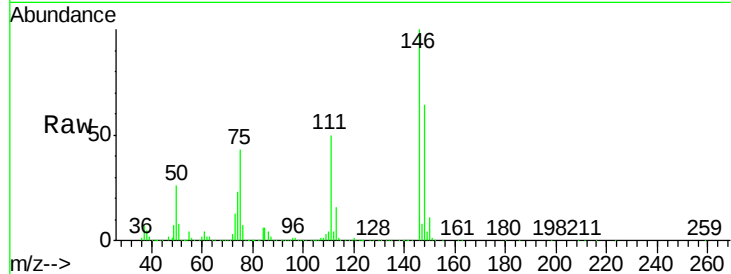
#77
 1,2-Dichlorobenzene
 Concen: 14.031 ppbv
 RT: 17.86 min Scan# 4689
 Delta R.T. -0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.2	24.9	74.7
148	65.3	31.9	95.9

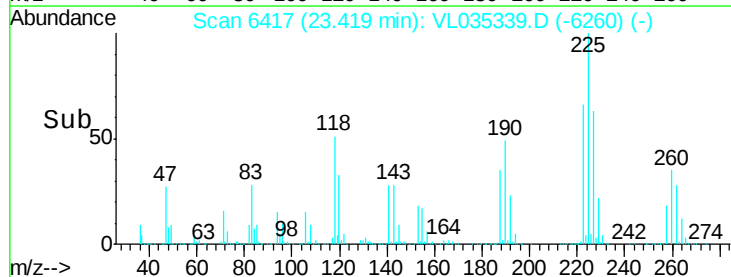
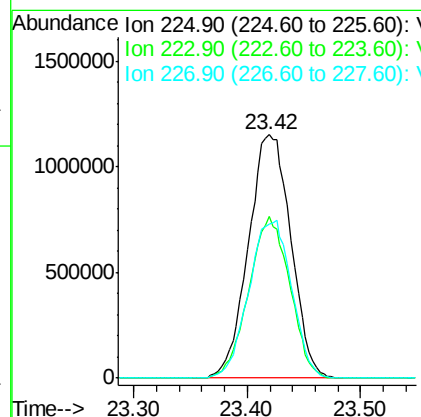
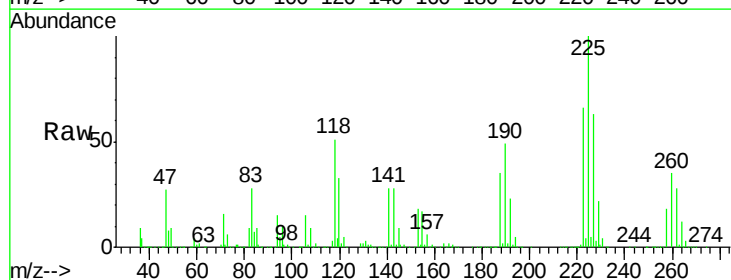
Manual Integrations
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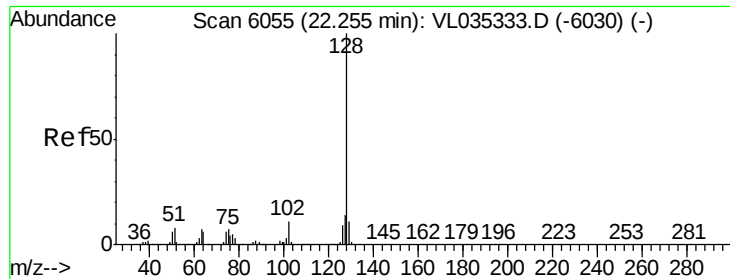
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 14.166 ppbv
 RT: 23.42 min Scan# 6417
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.3	75.5
227	65.4	52.7	79.1





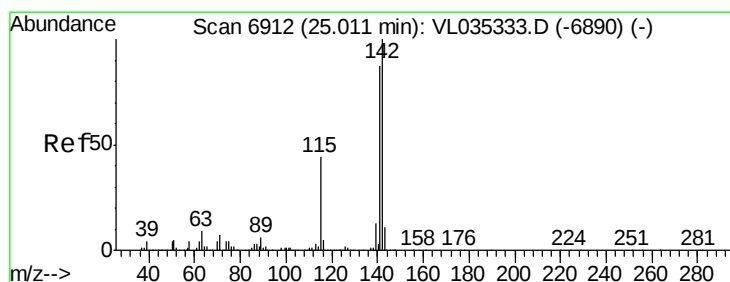
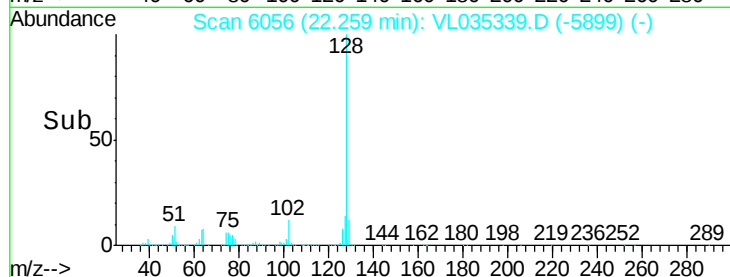
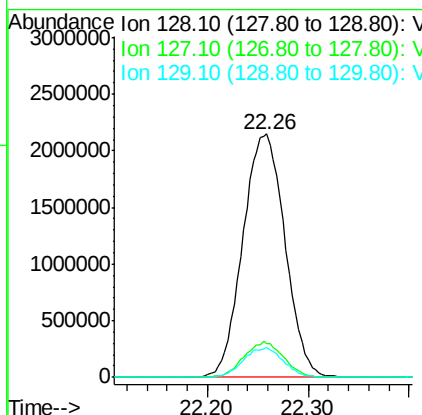
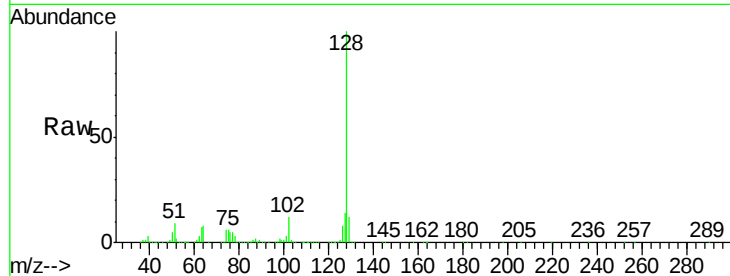
#79
Naphthalene
Concen: 17.284 ppbv
RT: 22.26 min Scan# 6056
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	11.1	16.7
129	12.5	8.7	13.1

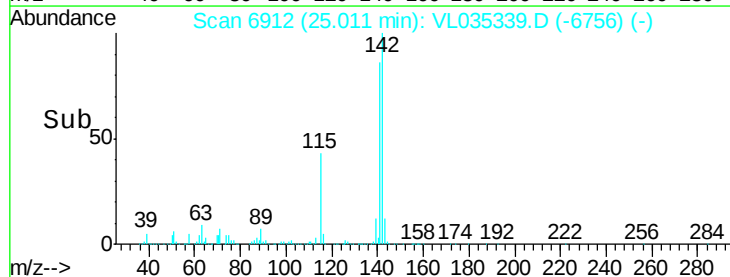
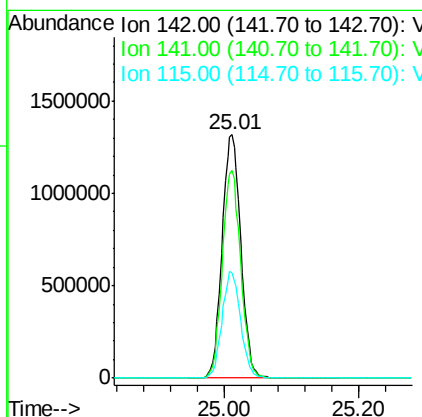
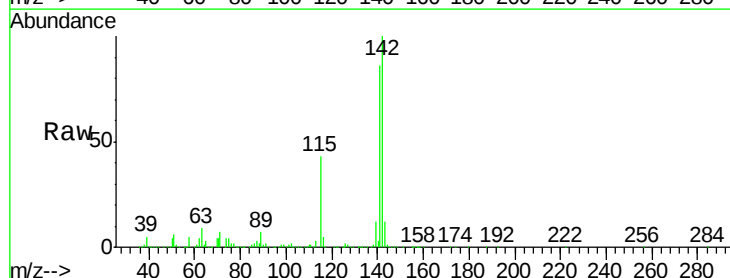
Manual Integrations
APPROVED

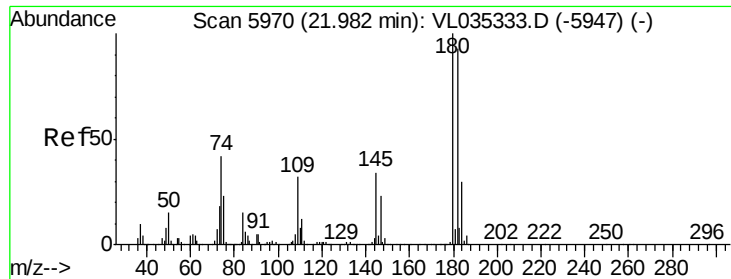
MMDadoda
8/6/2020 12:49:02 PM



#80
Naphthalene, 2-methyl-
Concen: 24.329 ppbv
RT: 25.01 min Scan# 6912
Delta R.T. 0.00 min
Lab File: VL035339.D
Acq: 5 Aug 2020 12:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.2	69.0	103.6
115	43.0	35.5	53.3





#81
 1,2,4-Trichlorobenzene
 Concen: 15.974 ppbv
 RT: 21.99 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL035339.D
 Acq: 5 Aug 2020 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.2	115.8
184	31.4	25.1	37.7

Manual Integrations
 APPROVED

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