

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034942.D
 Acq On : 6 May 2020 14:02
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:30:05 PM

Quant Time: May 06 14:46:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 12:36:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1215251	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2832873	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2847292	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2198413	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1673681	10.057	ppbv 97
3) Chlorodifluoromethane	2.95	51	1749770	12.889	ppbv 100
4) Chloromethane	3.10	50	1026678	13.381	ppbv 98
5) Vinyl Chloride	3.22	62	1003019	13.598	ppbv 100
6) Bromomethane	3.44	94	580300	13.515	ppbv 90
7) Chloroethane	3.52	64	358113	13.444	ppbv 97
8) Dichlorotetrafluoroethane	3.15	85	2034856	11.774	ppbv 99
9) Propene	2.97	41	818013	12.621	ppbv 98
10) Heptane	8.14	43	2200954	13.798	ppbv 98
11) Trichlorofluoromethane	3.92	101	2128906	12.025	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1491969	12.041	ppbv 100
13) Ethanol	3.57	45	199232	10.111	ppbv 100
14) Bromoethene	3.71	108	675587	12.625	ppbv 98
15) Acetone	3.82	43	1743758	11.071	ppbv 100
16) 1,3-Butadiene	3.29	39	922255	12.948	ppbv 98
17) tert-Butyl alcohol	4.27	59	1607935	10.596	ppbv 99
18) 1,1-Dichloroethene	4.27	96	694506	12.657	ppbv 93
19) Isopropyl Alcohol	3.94	45	1168538	11.748	ppbv 100
20) Methylene Chloride	4.32	84	606578	12.180	ppbv 95
21) Allyl Chloride	4.39	41	1226309	12.123	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	684564	12.297	ppbv 94
23) Vinyl Acetate	5.06	43	2823083	12.134	ppbv 98
24) 1,1-Dichloroethane	5.00	63	1979462	12.691	ppbv 99
25) Ethyl Acetate	5.67	43	3528908	12.576	ppbv 99
26) Hexane	5.68	57	1590566	13.163	ppbv 98
27) Carbon Disulfide	4.53	76	1807767	13.184	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	2325509	11.567	ppbv 98
29) Chloroform	5.75	83	2408002	13.061	ppbv 97
30) Cyclohexane	7.14	84	1336099	13.252	ppbv 98
31) cis-1,2-Dichloroethene	5.55	61	1643578	13.300	ppbv 97
32) 1,1,1-Trichloroethane	6.52	97	2301742	12.813	ppbv 100
34) 2-Butanone	5.23	43	2398915	12.743	ppbv 100
35) Carbon Tetrachloride	7.03	117	2356020	13.372	ppbv 98
36) Benzene	6.90	78	3173407	12.567	ppbv 100
37) 1,2-Dichloroethane	6.31	62	1885766	13.245	ppbv 100
38) Trichloroethene	7.85	130	1176484	12.268	ppbv 98
39) 1,2-Dichloropropane	7.63	63	1283370	12.828	ppbv 97
40) 1,4-Dioxane	7.85	88	451971	11.962	ppbv 82
41) Tetrahydrofuran	6.04	42	1376303	13.511	ppbv 99
42) Bromodichloromethane	7.81	83	2581370	13.303	ppbv 96
43) Methyl Methacrylate	8.03	69	1488034	13.988	ppbv 100

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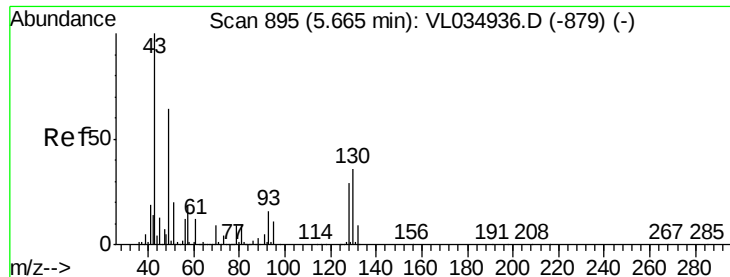
Manual Integrations
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Quant Time: May 06 14:46:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	5354438	12.548	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1696538	13.574	ppbv	96
46) cis-1,3-Dichloropropene	8.73	75	1982692	13.350	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	1318097	12.838	ppbv	99
48) Dibromochloromethane	10.34	129	2164830	13.020	ppbv	100
49) Bromoform	13.09	173	1912958	12.903	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3595407	13.267	ppbv	100
51) 2-Hexanone	10.16	43	3004422	13.642	ppbv	100
52) Tetrachloroethene	11.26	164	1101398	11.026	ppbv	98
53) Toluene	9.83	91	3669329	12.584	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1977256	12.794	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1592171	12.448	ppbv	96
57) Chlorobenzene	12.19	112	2718468	12.202	ppbv	100
58) Ethyl Benzene	12.75	91	4838076	12.547	ppbv	96
59) m/p-Xylene	13.04	91	7904068m	24.468	ppbv	
60) o-Xylene	13.73	91	3909839	12.396	ppbv	99
61) Styrene	13.57	104	2919100	13.188	ppbv	100
62) Isopropylbenzene	14.71	105	5695863	11.943	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	2761336	12.896	ppbv	99
64) n-propylbenzene	15.61	120	1549604	12.484	ppbv	93
65) tert-Butylbenzene	16.80	119	4839467	11.608	ppbv	100
66) Benzyl Chloride	17.04	91	2117403	12.180	ppbv	99
67) sec-Butylbenzene	17.35	105	6922921	11.975	ppbv	99
69) p-Isopropyltoluene	17.70	119	5732462	11.826	ppbv	99
70) n-Butylbenzene	18.60	91	6007177	12.146	ppbv	99
71) 2-Chlorotoluene	15.50	91	4500547	12.461	ppbv	100
72) 4-Ethyltoluene	15.89	105	4619646	12.402	ppbv	100
73) 1,3,5-Trimethylbenzene	16.04	105	4281845	12.280	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	4275246	11.901	ppbv	95
75) 1,3-Dichlorobenzene	17.05	146	2516516	11.618	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	2558571	11.837	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	2418386m	11.518	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	1906902	10.873	ppbv	99
79) Naphthalene	22.27	128	4594821	16.401	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	2166014	29.585	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	2366540	13.296	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1215251

Ion Ratio Lower Upper

49 100

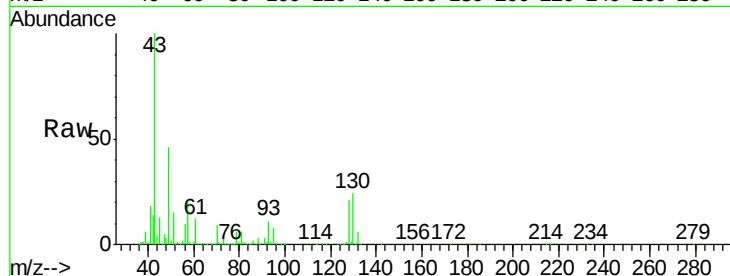
128 44.0 22.1 66.5

130 55.4 29.1 87.3

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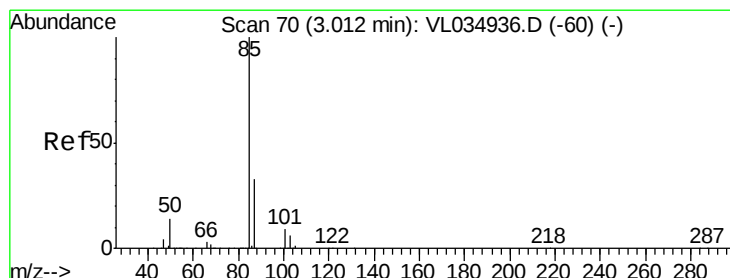
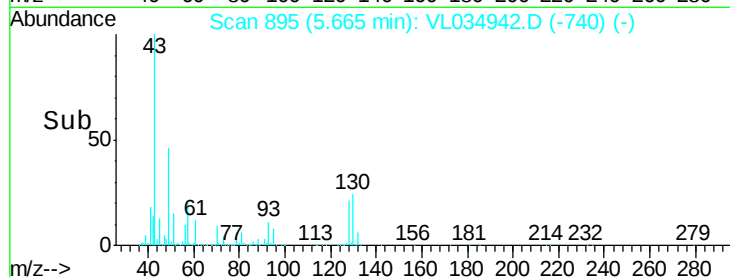
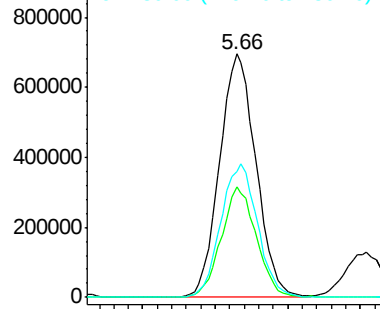
5/7/2020 2:30:05 PM



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



#2

Dichlorodifluoromethane

Concen: 10.057 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL034942.D

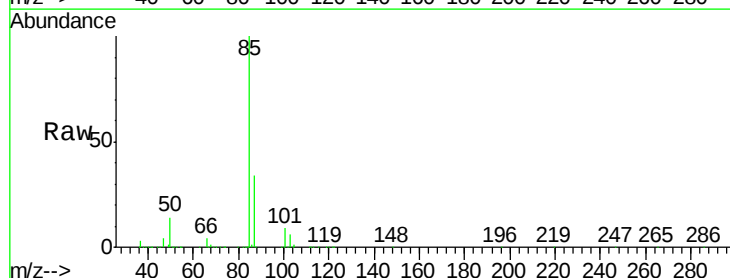
Acq: 6 May 2020 14:02

Tgt Ion: 85 Resp: 1673681

Ion Ratio Lower Upper

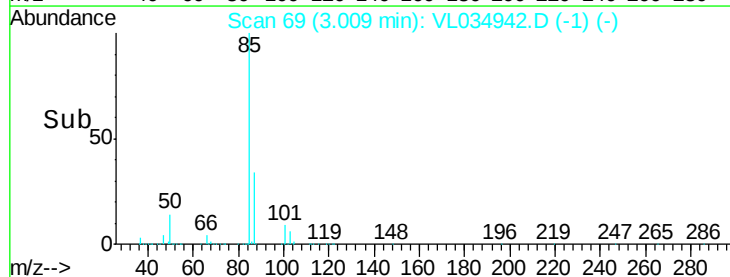
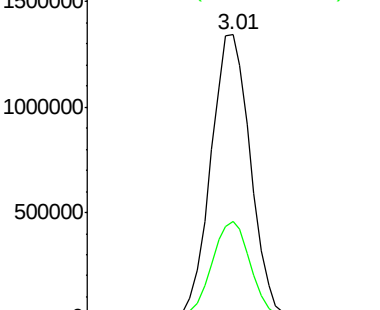
85 100

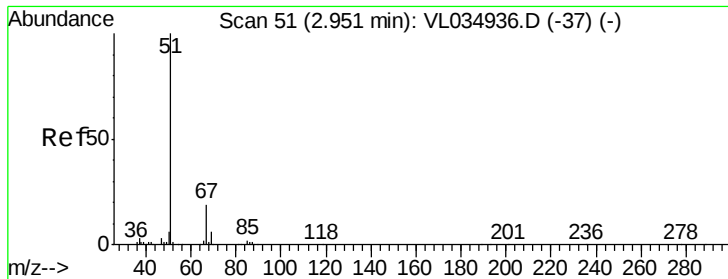
87 34.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.889 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1749770

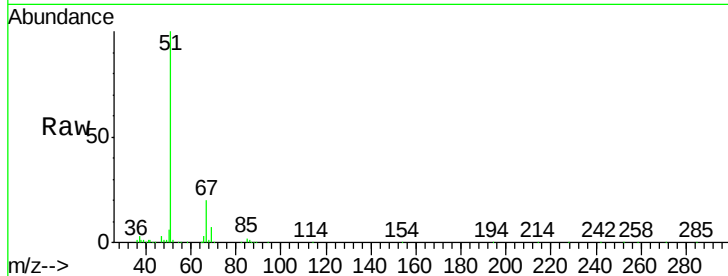
Ion Ratio Lower Upper

51 100

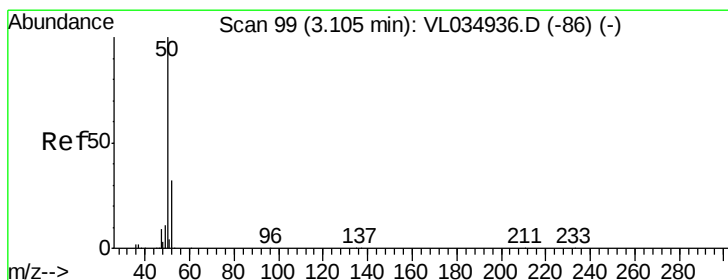
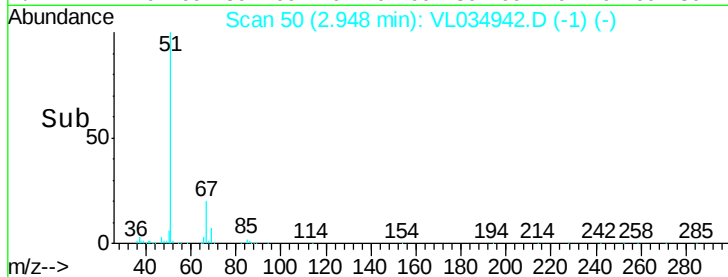
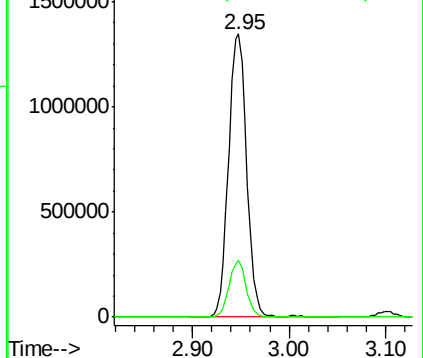
67 18.8 15.0 22.6

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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: 13.381 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.01 min

Lab File: VL034942.D

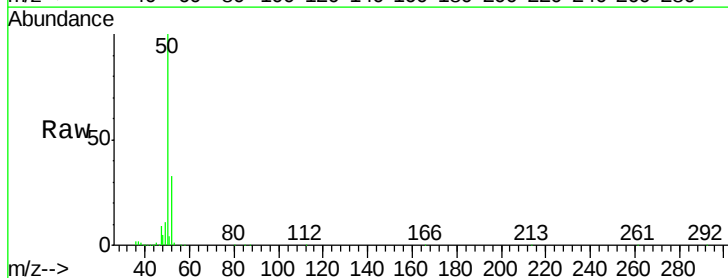
Acq: 6 May 2020 14:02

Tgt Ion: 50 Resp: 1026678

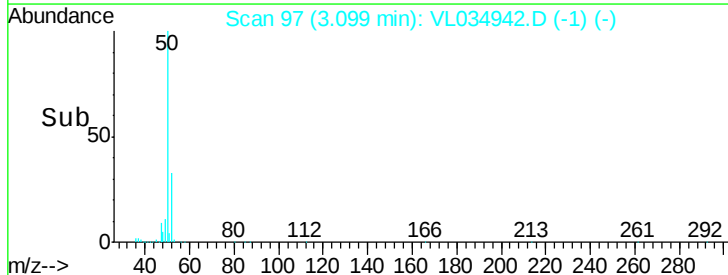
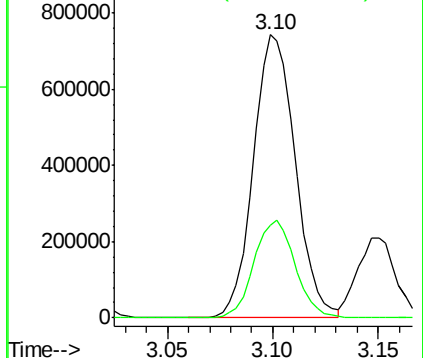
Ion Ratio Lower Upper

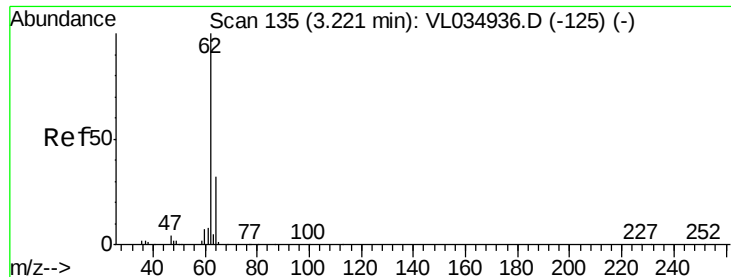
50 100

52 32.9 25.4 38.2



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





#5

Vinyl Chloride

Concen: 13.598 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1003019

Ion Ratio Lower Upper

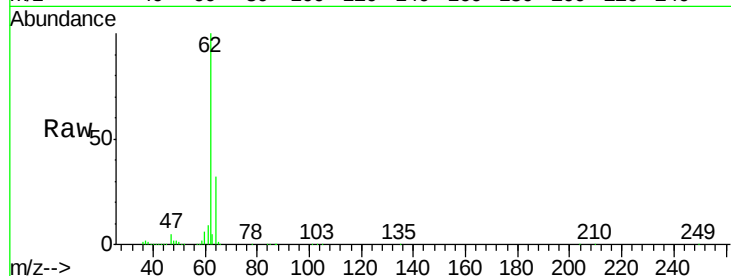
62 100

64 31.9 25.7 38.5

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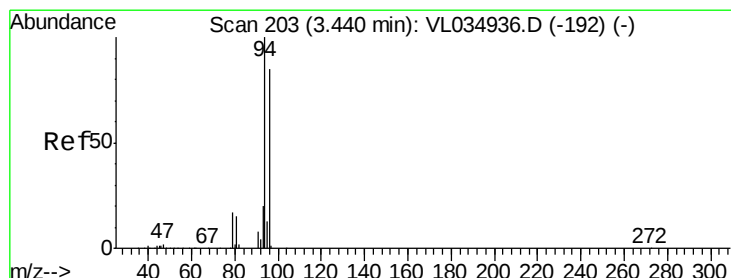
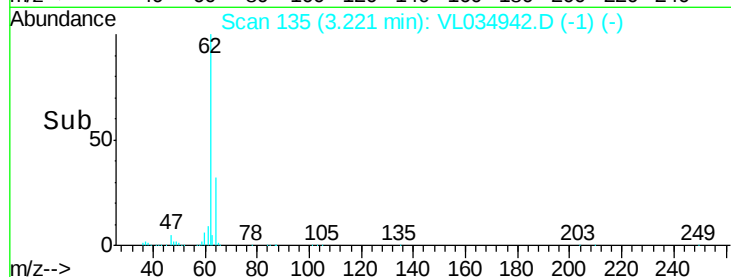
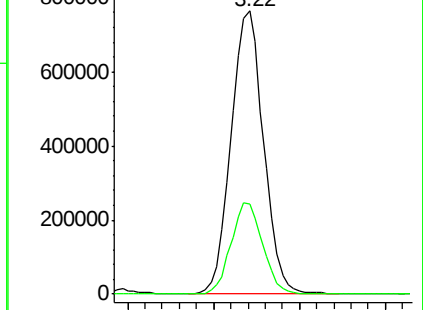
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.515 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL034942.D

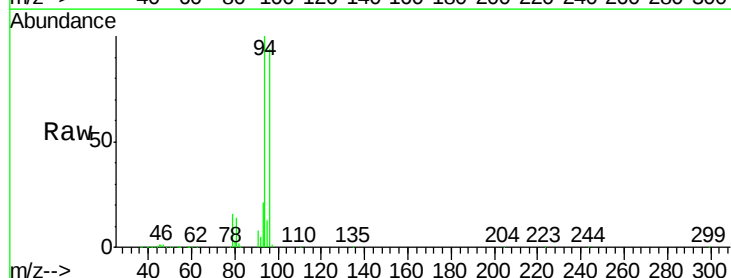
Acq: 6 May 2020 14:02

Tgt Ion: 94 Resp: 580300

Ion Ratio Lower Upper

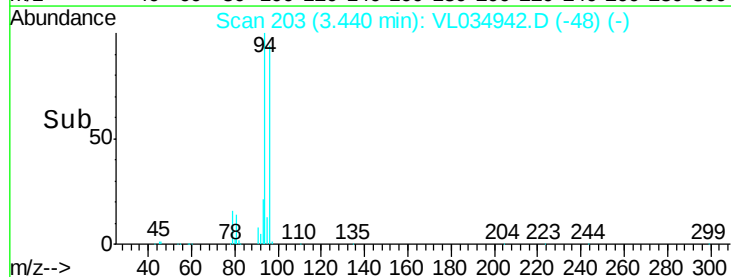
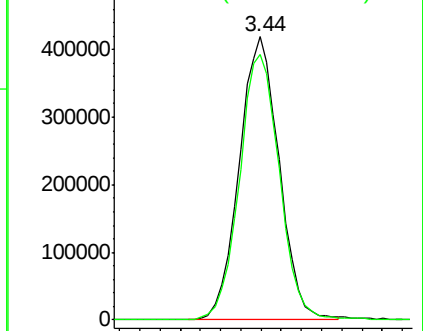
94 100

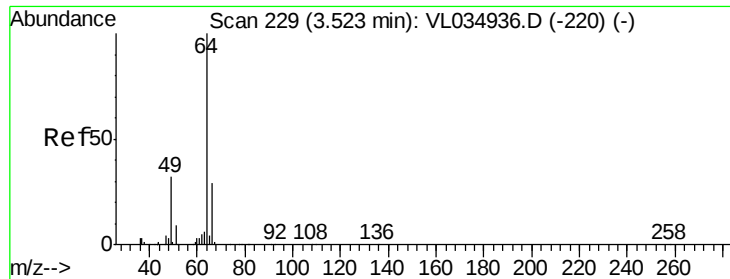
96 93.7 67.9 101.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.444 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 358113

Ion Ratio Lower Upper

64 100

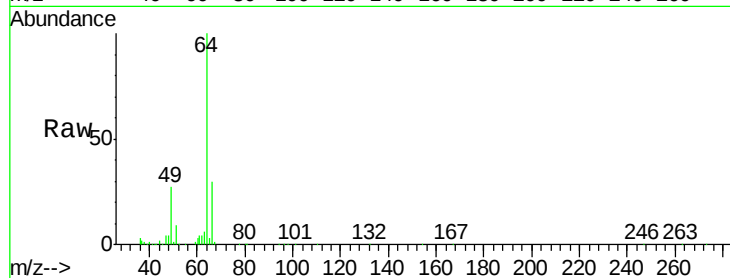
66 30.4 23.2 34.8

Manual Integrations

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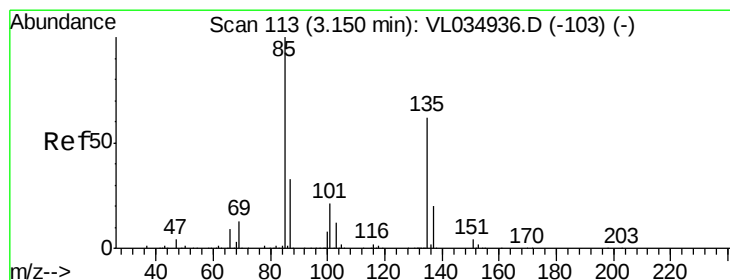
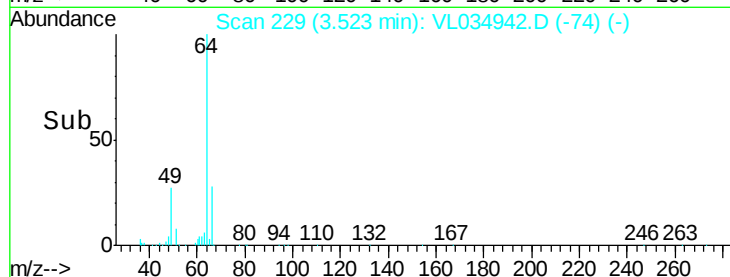
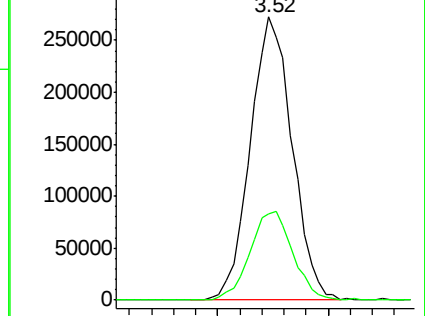
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.774 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034942.D

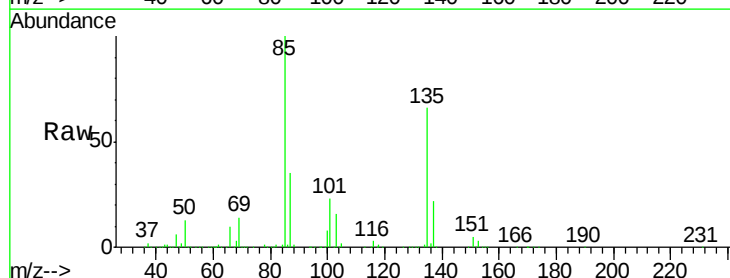
Acq: 6 May 2020 14:02

Tgt Ion: 85 Resp: 2034856

Ion Ratio Lower Upper

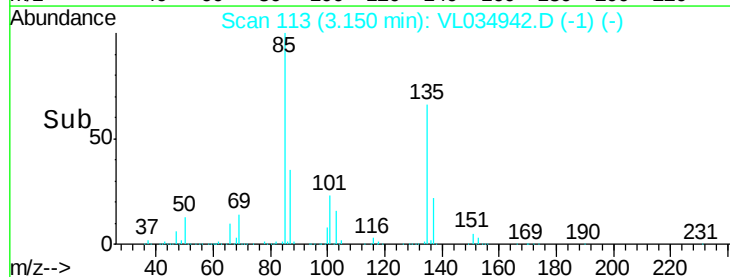
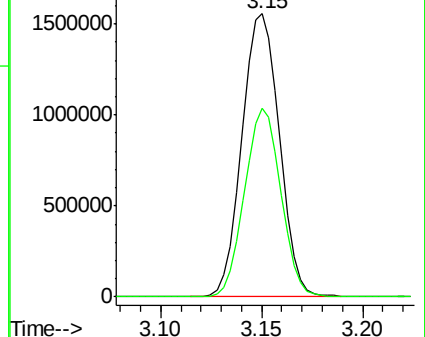
85 100

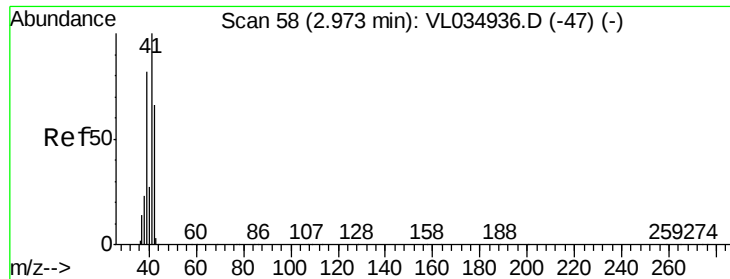
135 64.7 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 12.621 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 818013

Ion Ratio Lower Upper

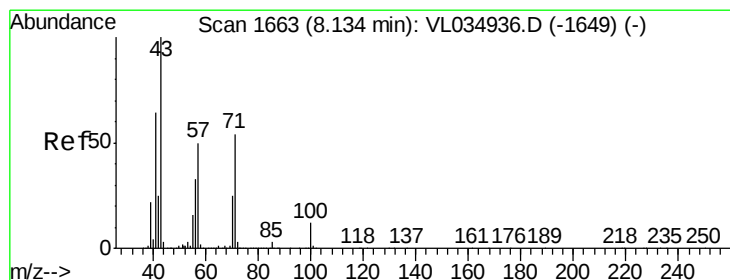
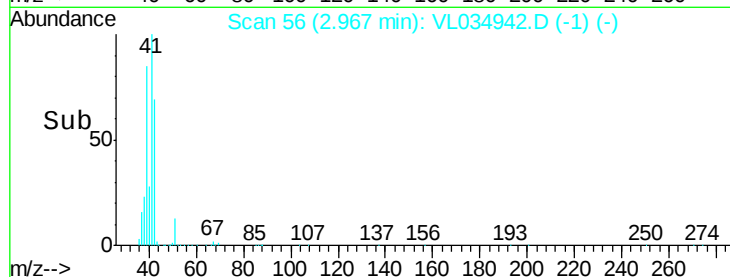
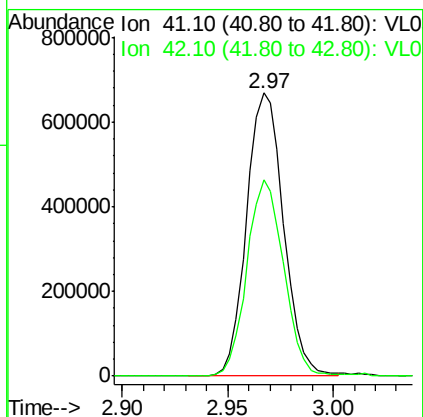
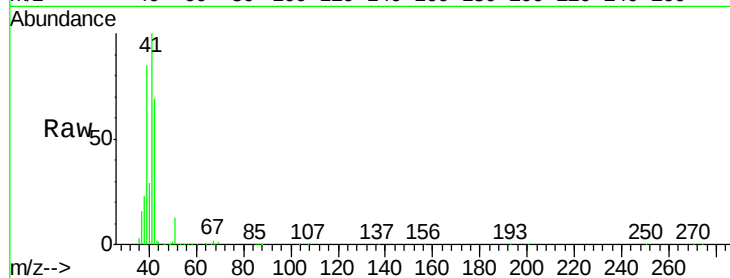
41 100

42 69.6 54.5 81.7

Manual Integrations
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5/7/2020 2:30:05 PM



#10

Heptane

Concen: 13.798 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.01 min

Lab File: VL034942.D

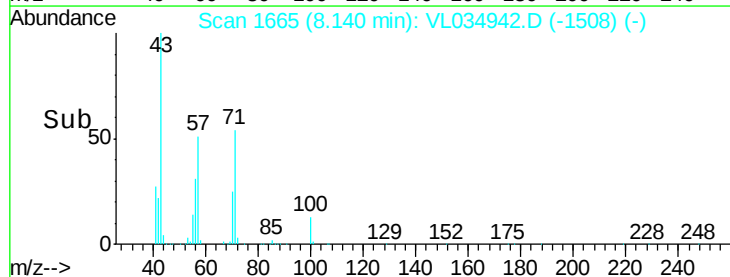
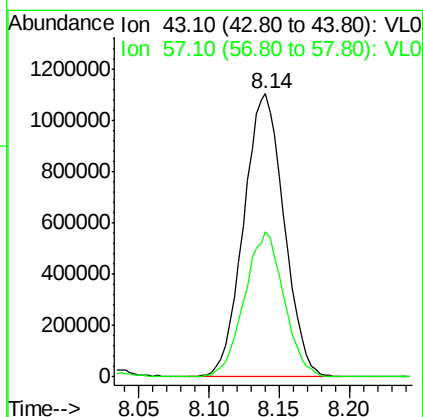
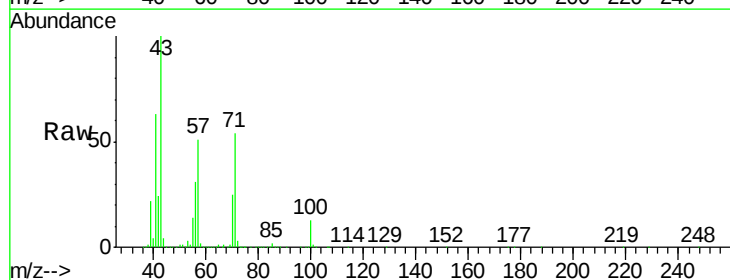
Acq: 6 May 2020 14:02

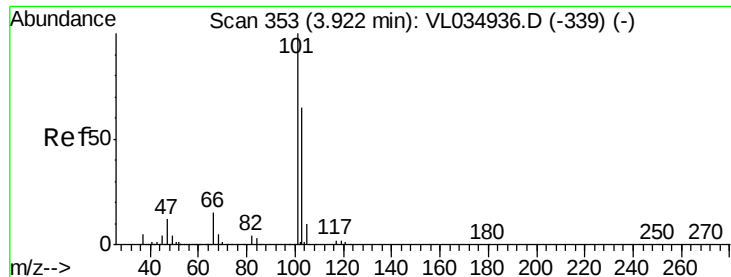
Tgt Ion: 43 Resp: 2200954

Ion Ratio Lower Upper

43 100

57 50.1 41.1 61.7





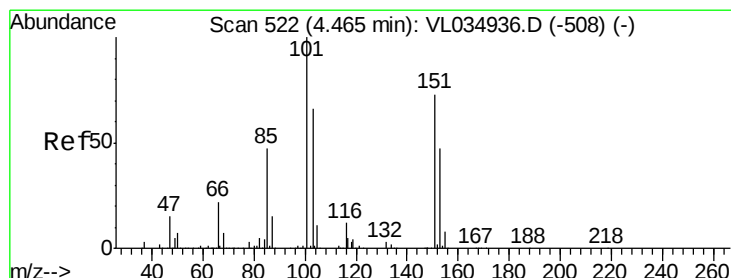
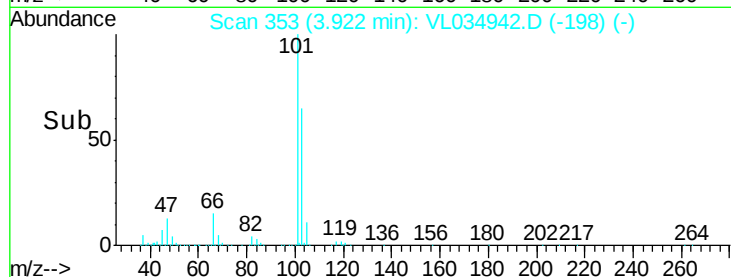
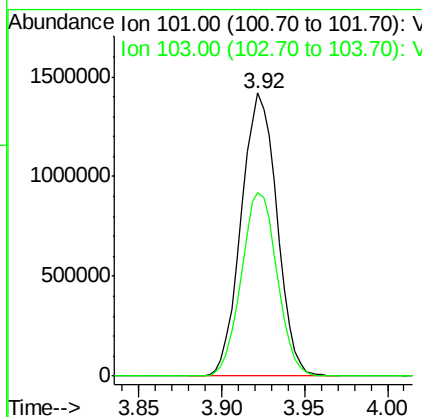
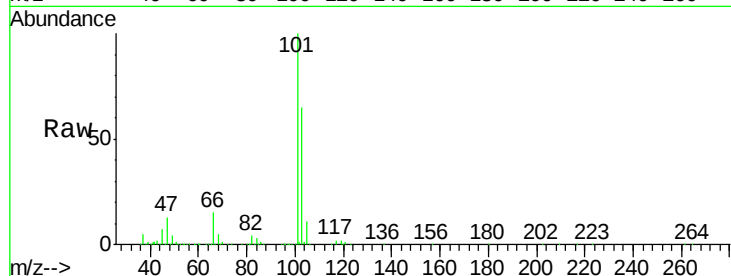
#11
 Trichlorofluoromethane
 Concen: 12.025 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2128906
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.9 77.9

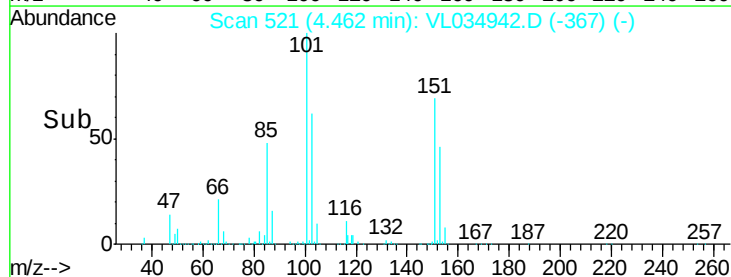
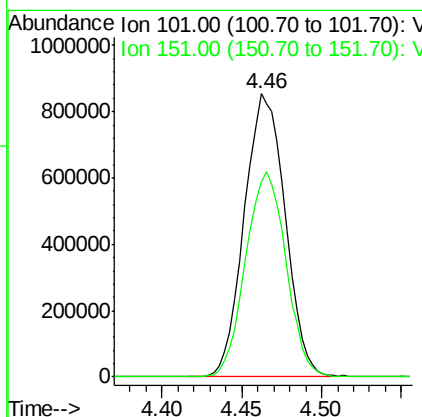
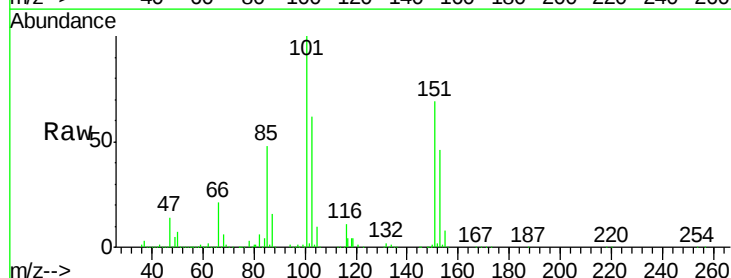
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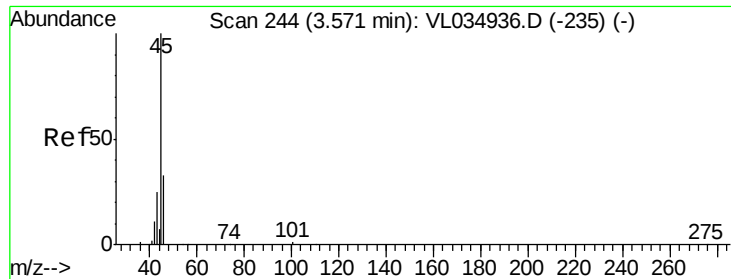
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.041 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion:101 Resp: 1491969
 Ion Ratio Lower Upper
 101 100
 151 71.6 57.6 86.4





#13

Ethanol

Concen: 10.111 ppbv

RT: 3.57 min Scan# 244

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 199232

Ion Ratio Lower Upper

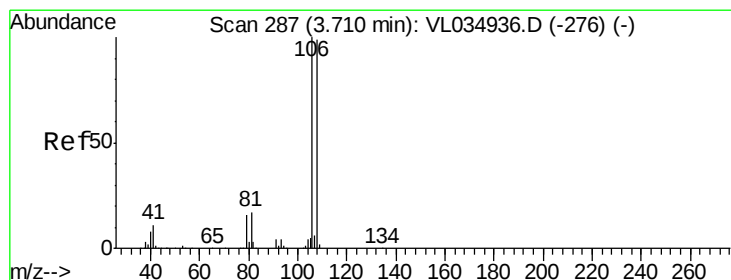
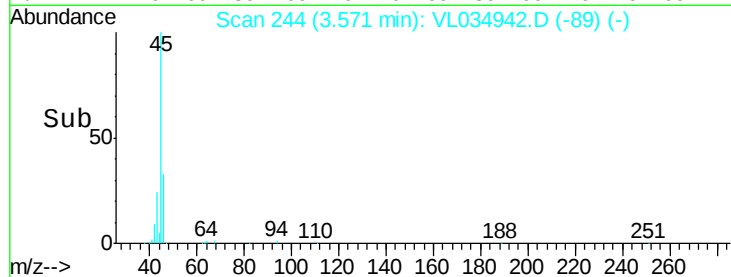
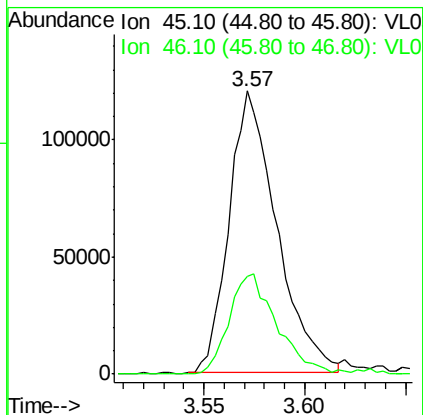
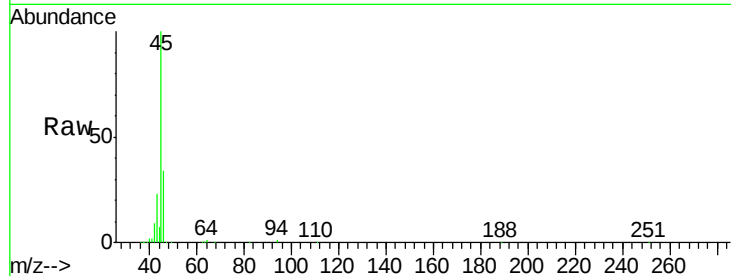
45 100

46 35.6 14.3 57.3

Manual Integrations
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#14

Bromoethene

Concen: 12.625 ppbv

RT: 3.71 min Scan# 287

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

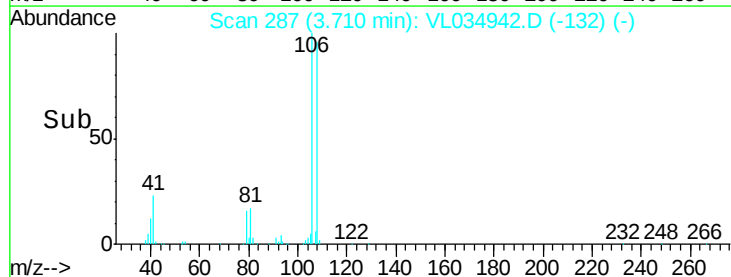
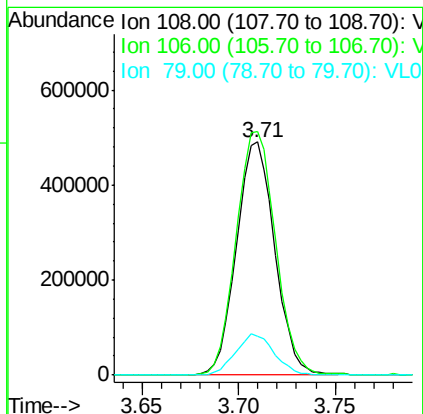
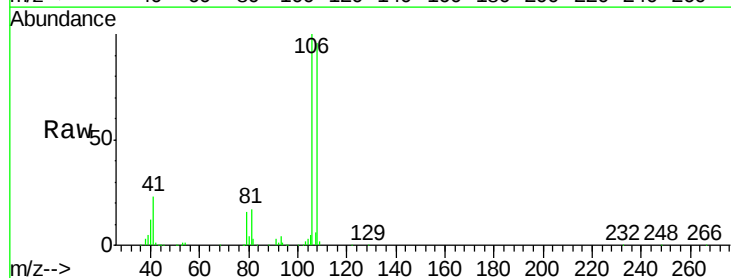
Tgt Ion: 108 Resp: 675587

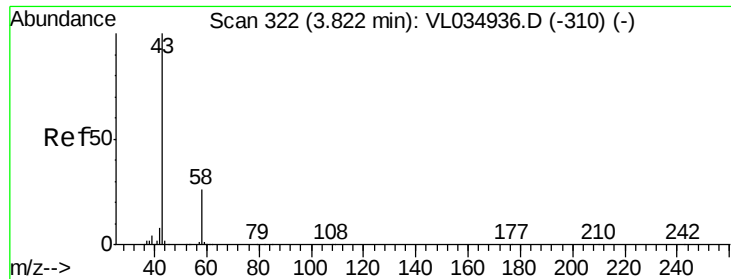
Ion Ratio Lower Upper

108 100

106 108.3 84.9 127.3

79 18.0 14.1 21.1





#15

Acetone

Concen: 11.071 ppbv

RT: 3.82 min Scan# 321

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 43 Resp: 1743758

Ion Ratio Lower Upper

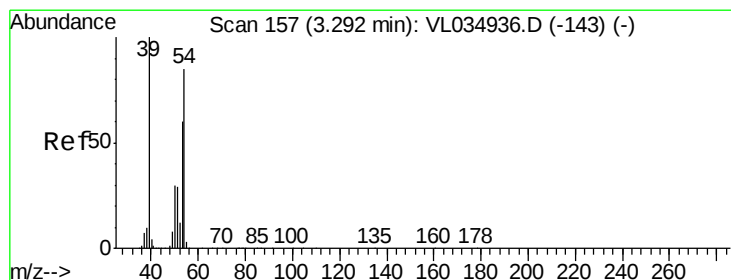
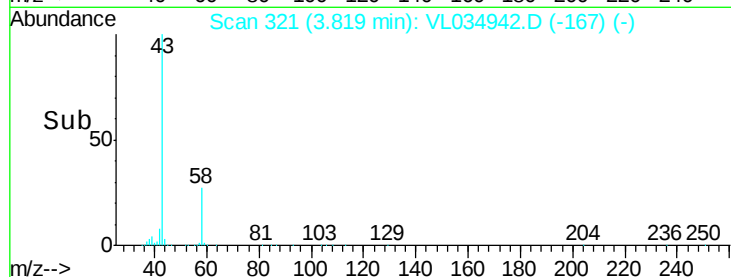
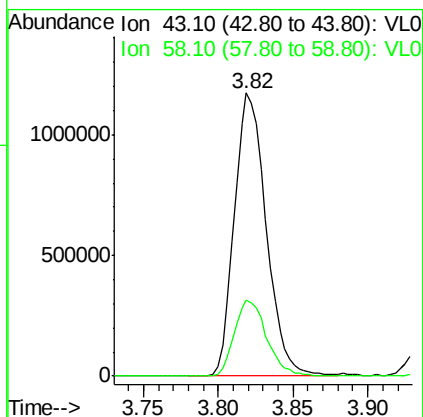
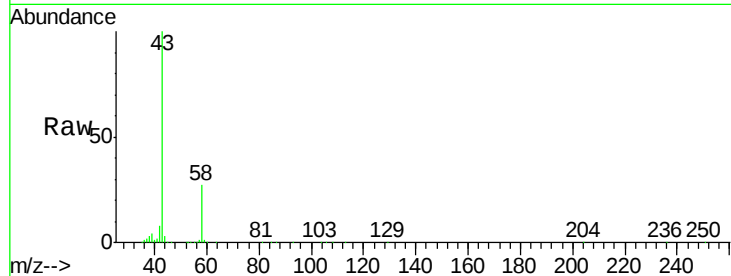
43 100

58 27.0 21.7 32.5

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#16

1,3-Butadiene

Concen: 12.948 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.00 min

Lab File: VL034942.D

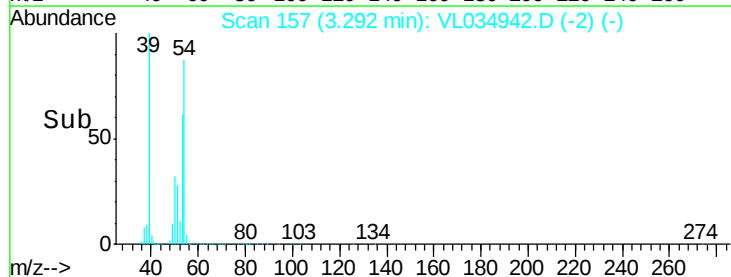
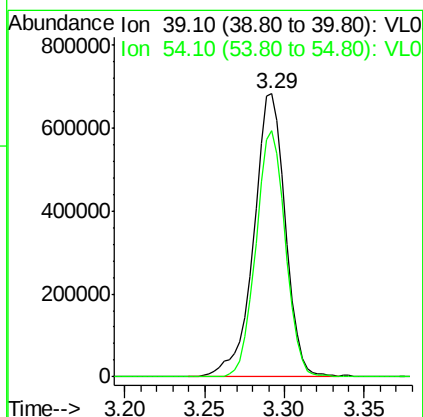
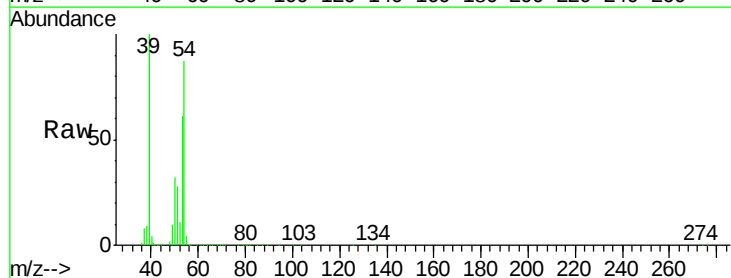
Acq: 6 May 2020 14:02

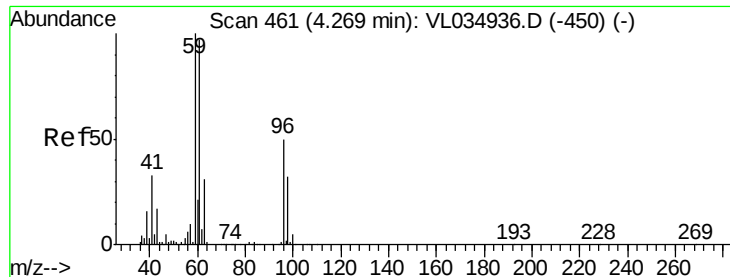
Tgt Ion: 39 Resp: 922255

Ion Ratio Lower Upper

39 100

54 81.6 66.6 100.0





#17

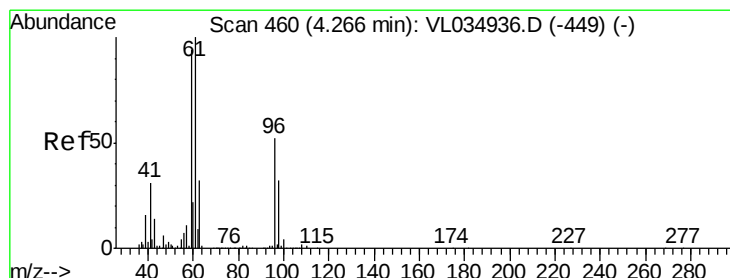
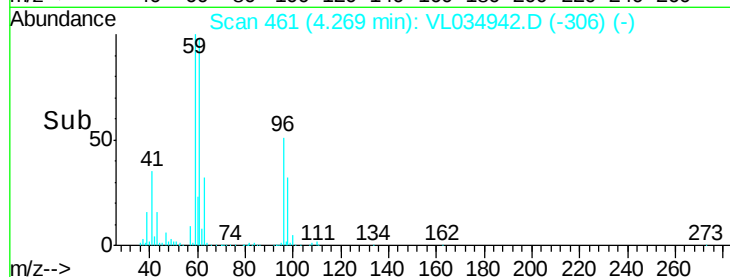
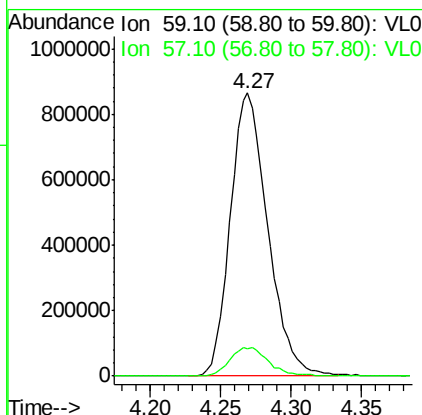
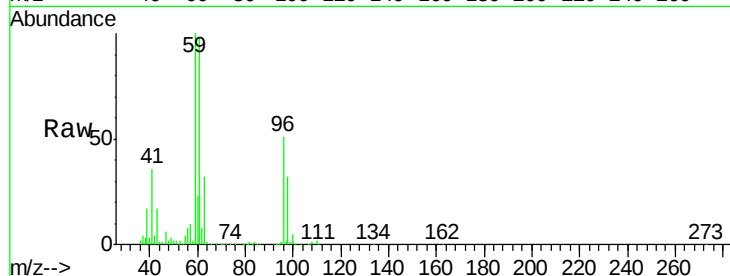
tert-Butyl alcohol
Concen: 10.596 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1607935
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

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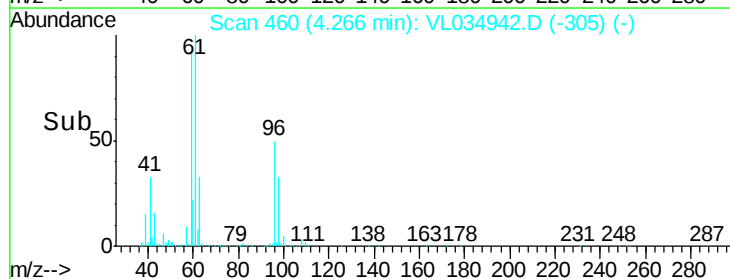
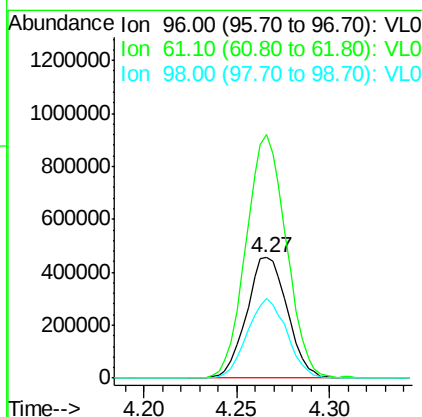
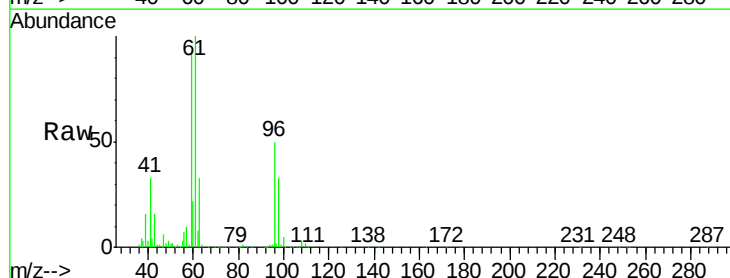
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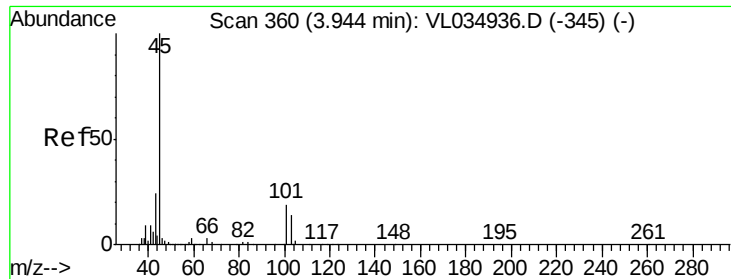


#18

1,1-Dichloroethene
Concen: 12.657 ppbv
RT: 4.27 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion: 96 Resp: 694506
Ion Ratio Lower Upper
96 100
61 201.9 152.4 228.6
98 65.8 48.8 73.2





#19

Isopropyl Alcohol

Concen: 11.748 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1168538

Ion Ratio Lower Upper

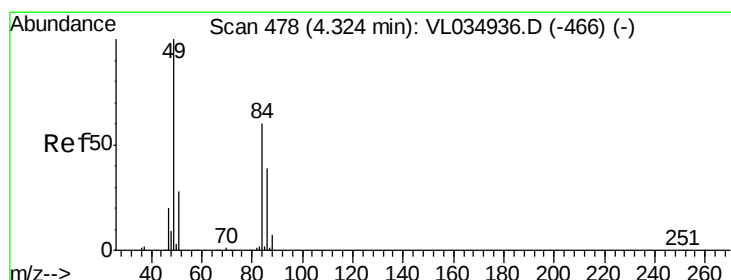
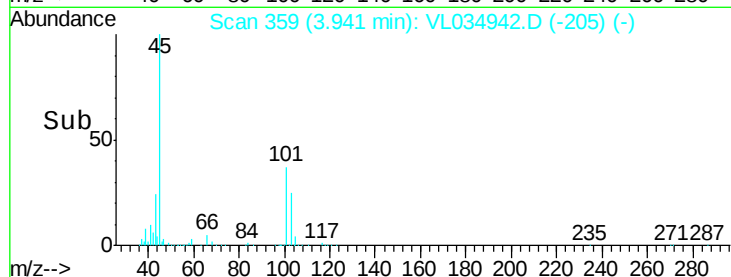
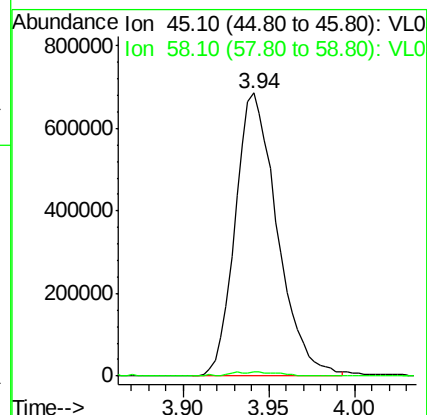
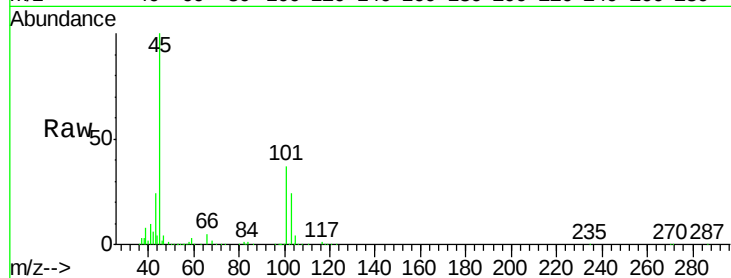
45 100

58 2.0 1.7 2.5

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#20

Methylene Chloride

Concen: 12.180 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Tgt Ion: 84 Resp: 606578

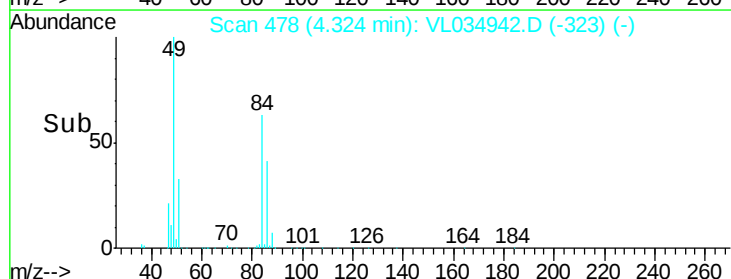
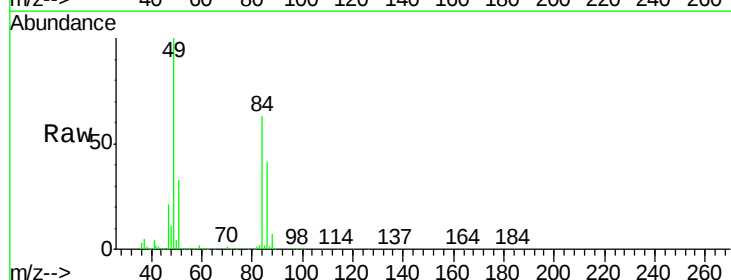
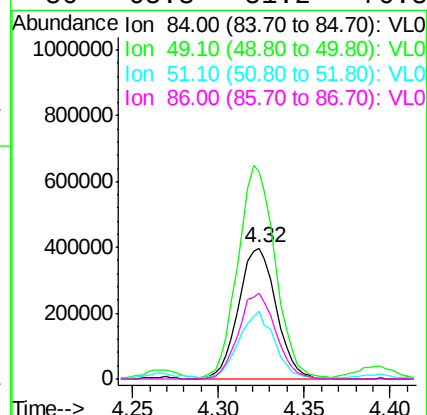
Ion Ratio Lower Upper

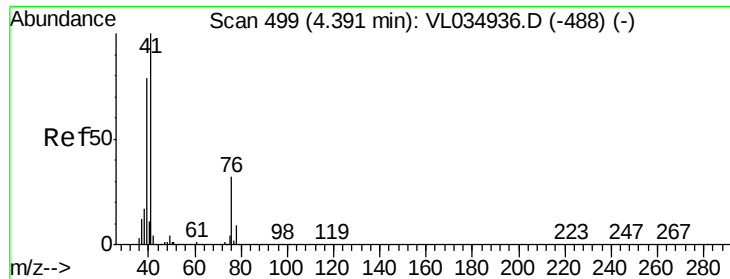
84 100

49 157.2 132.5 198.7

51 51.2 38.4 57.6

86 65.3 51.2 76.8





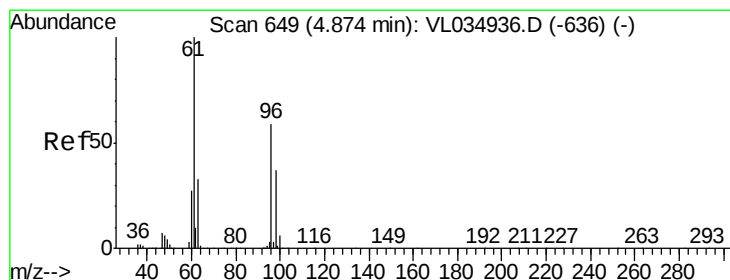
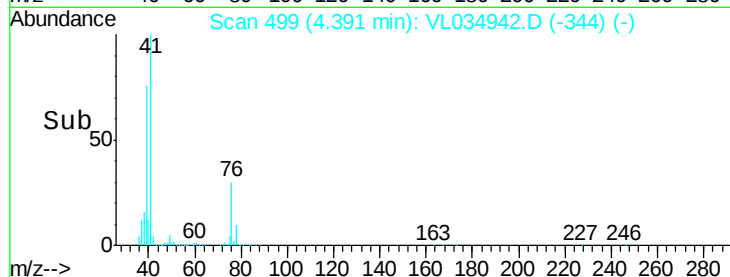
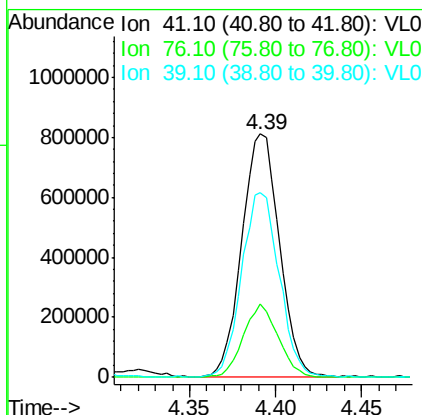
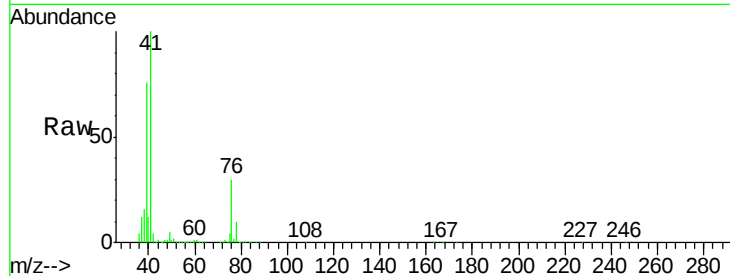
#21
Allvl Chloride
Concen: 12.123 ppbv
RT: 4.39 min Scan# 499
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.1	23.6	35.4
39	76.8	61.9	92.9

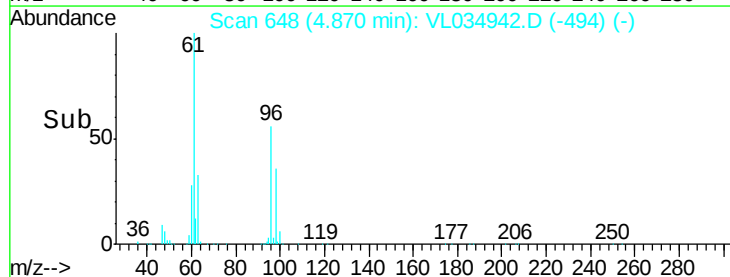
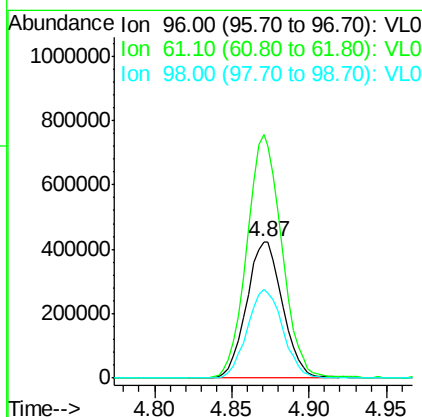
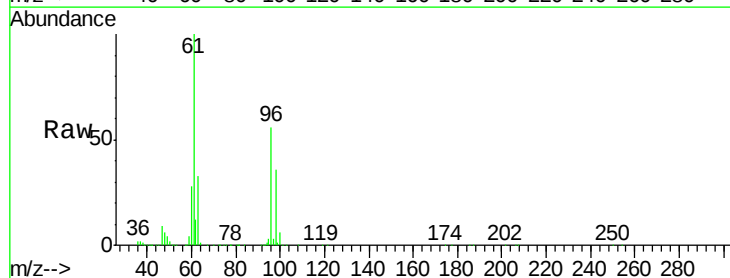
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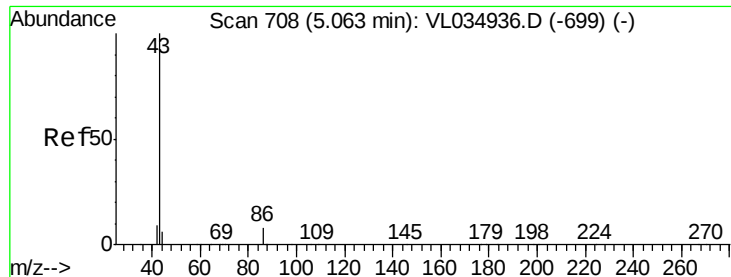
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#22
trans-1,2-Dichloroethene
Concen: 12.297 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	178.4	135.3	202.9
98	65.0	50.4	75.6





#23

Vinyl Acetate

Concen: 12.134 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Tot Ion: 43 Resp: 2823083

Ion Ratio Lower Upper

43 100

86 8.2 5.5 8.3

42 10.6 8.0 12.0

44 6.0 4.5 6.7

Instrument :

MSVOA_L

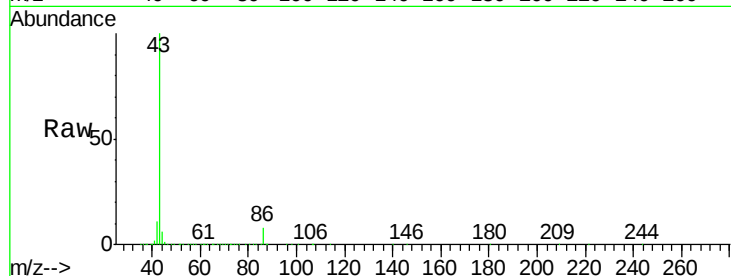
ClientSampleId :

VSTDIC015

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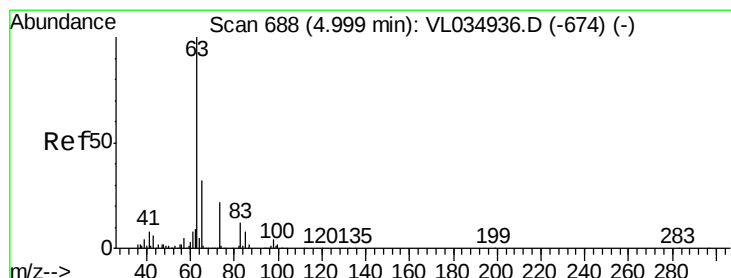
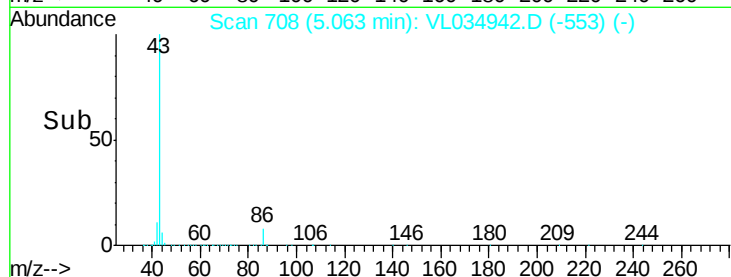
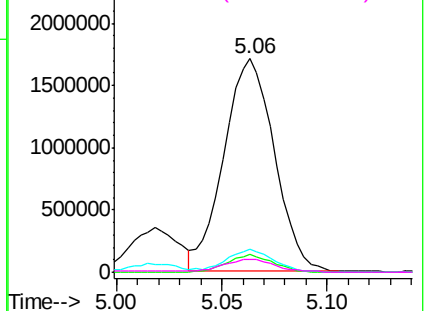


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.691 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

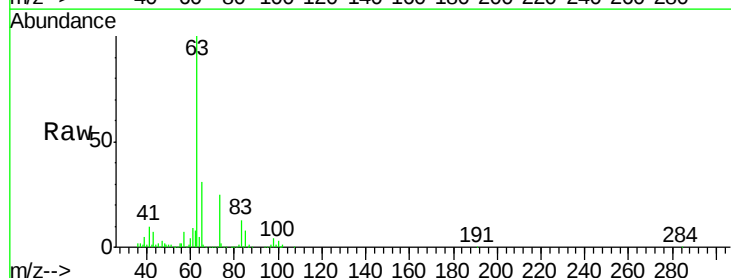
Tgt Ion: 63 Resp: 1979462

Ion Ratio Lower Upper

63 100

98 4.2 2.0 6.0

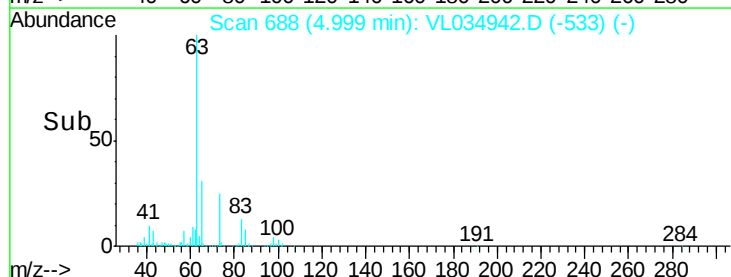
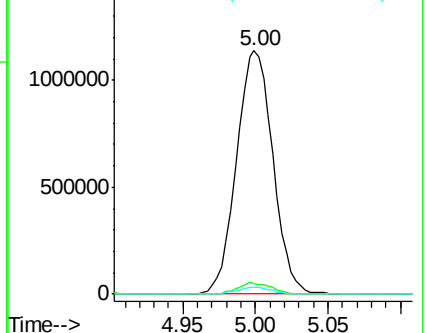
100 2.5 1.1 3.5

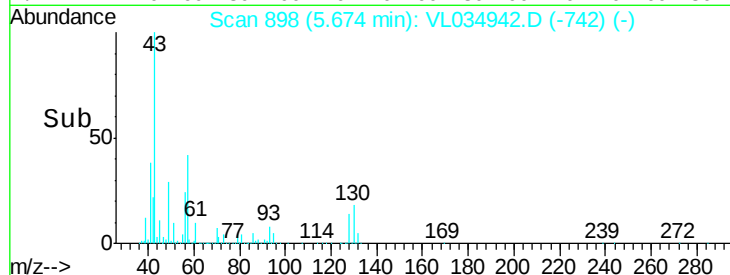
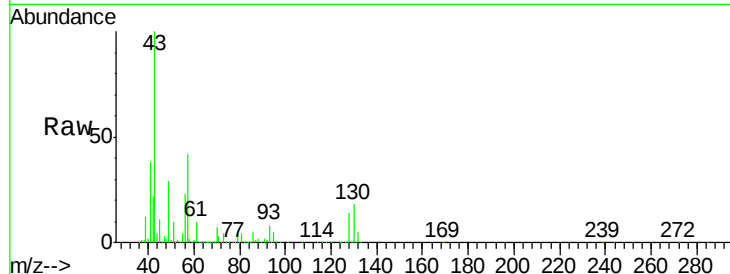
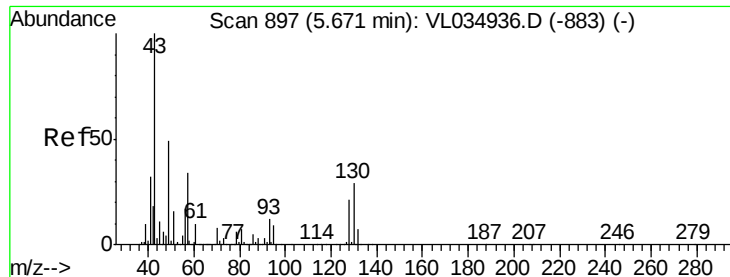


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

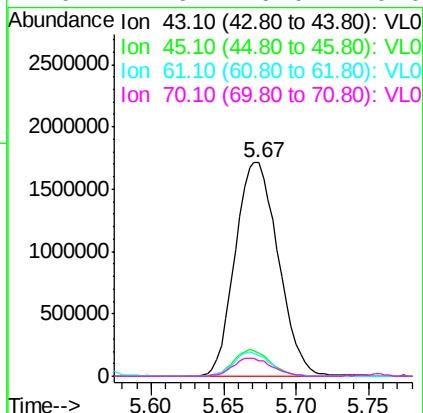
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 12.576 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

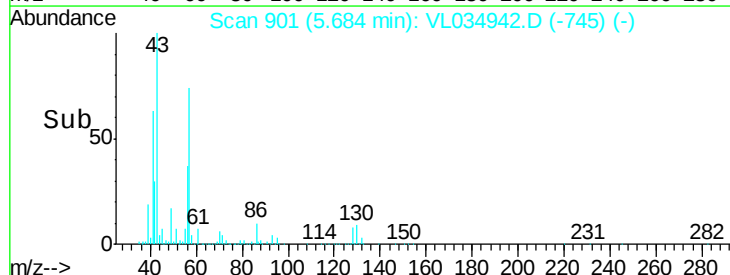
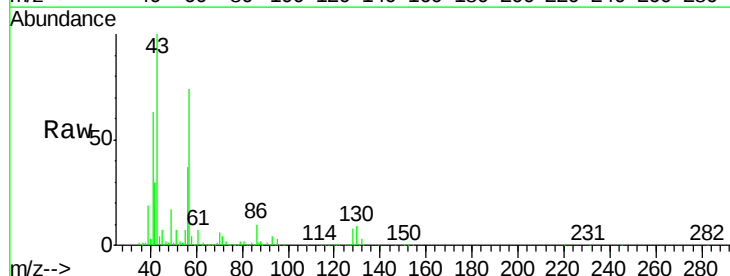
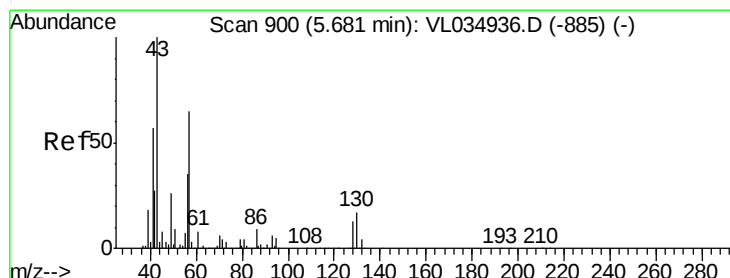
Tot Ion	43	Resp	3528908
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.1	12.1
61	9.8	7.8	11.8
70	7.6	6.0	9.0



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

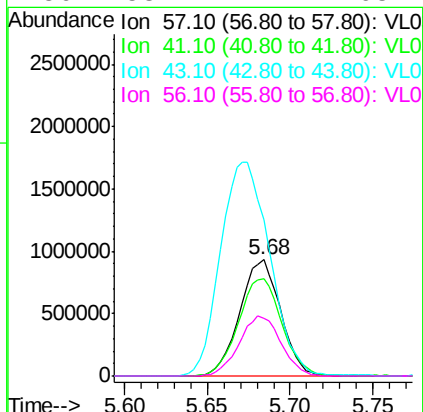
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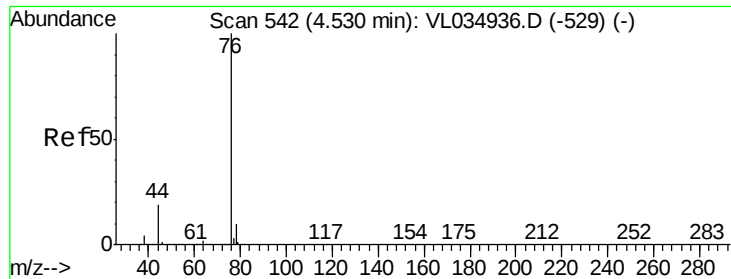
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#26
Hexane
Concen: 13.163 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	57	Resp	1590566
Ion	Ratio	Lower	Upper
57	100		
41	90.4	72.7	109.1
43	222.8	182.1	273.1
56	53.1	42.2	63.2





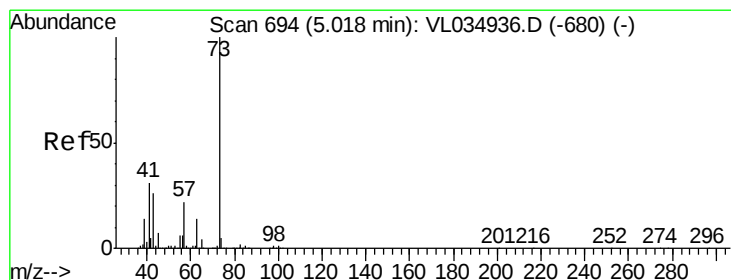
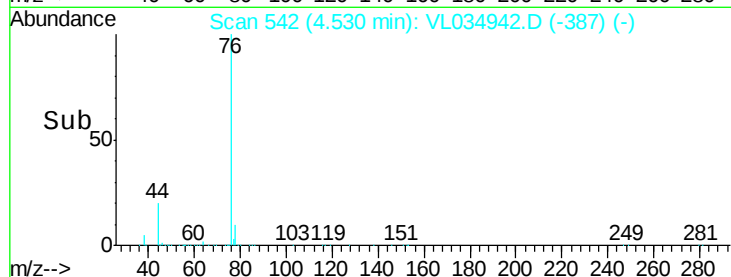
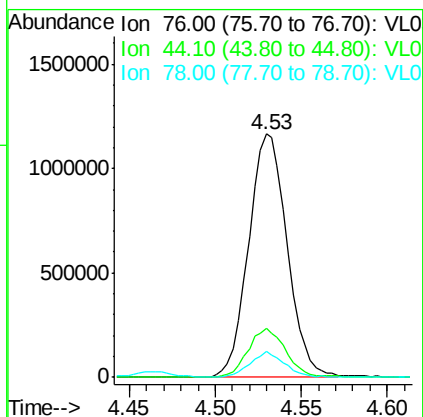
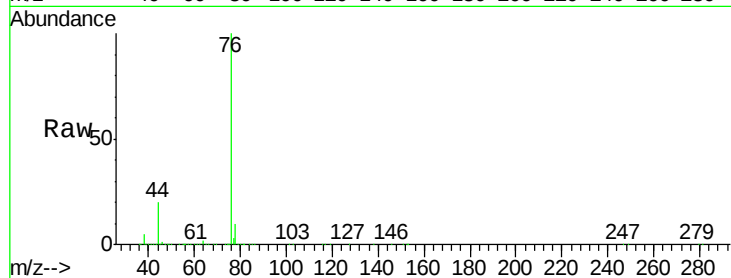
#27
Carbon Disulfide
Concen: 13.184 ppbv
RT: 4.53 min Scan# 542
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.2	15.2	22.8
78	9.6	7.7	11.5

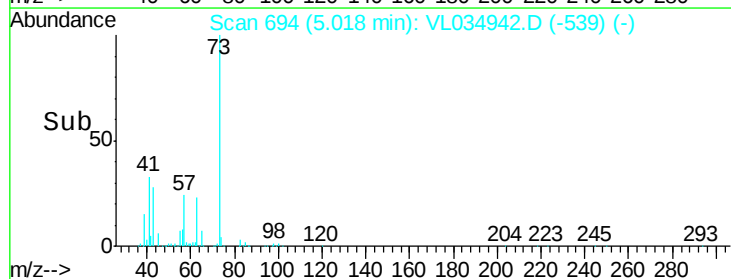
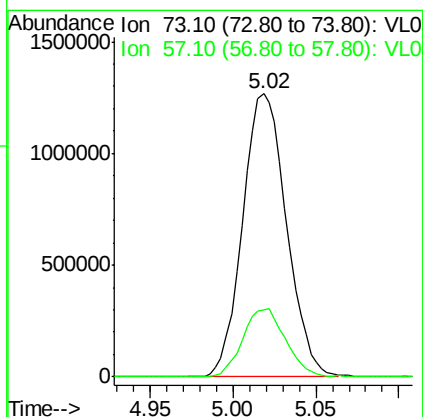
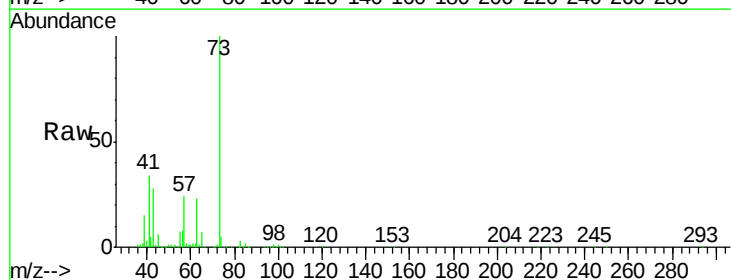
Manual Integrations
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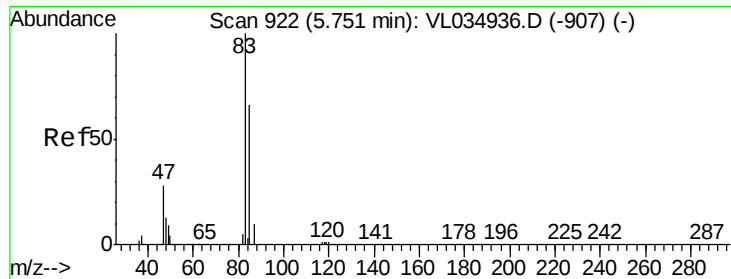
MMDadoda
5/7/2020 2:30:05 PM



#28
Methyl tert-Butyl Ether
Concen: 11.567 ppbv
RT: 5.02 min Scan# 694
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.9	18.3	27.5





#29

Chloroform

Concen: 13.061 ppbv

RT: 5.75 min Scan# 923

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2408002

Ion Ratio Lower Upper

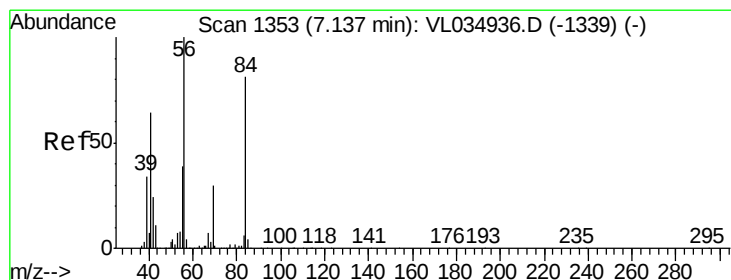
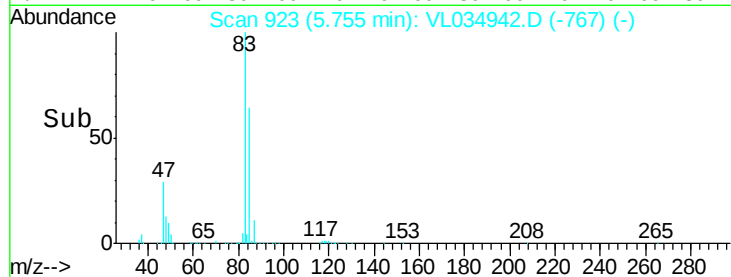
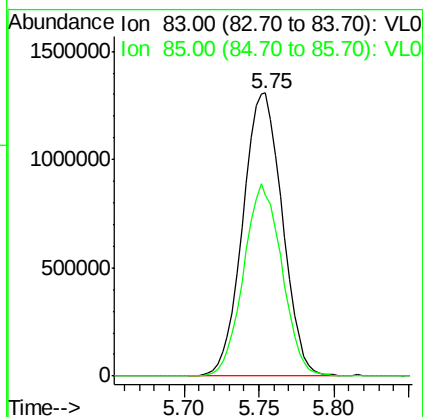
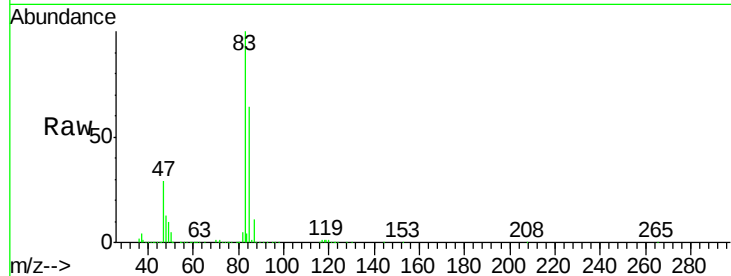
83 100

85 63.8 53.0 79.6

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5/7/2020 2:30:05 PM



#30

Cyclohexane

Concen: 13.252 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

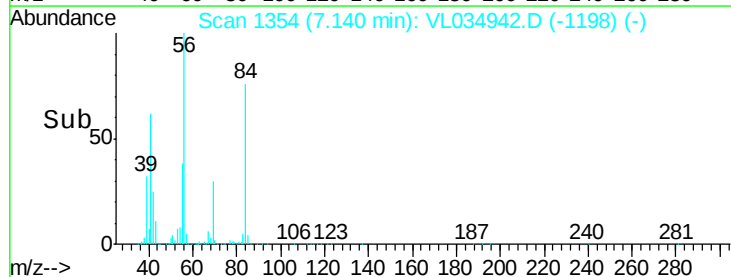
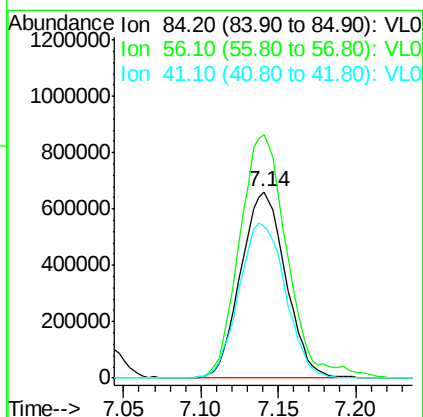
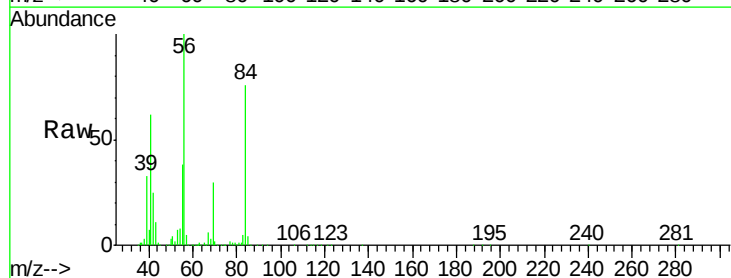
Tgt Ion: 84 Resp: 1336099

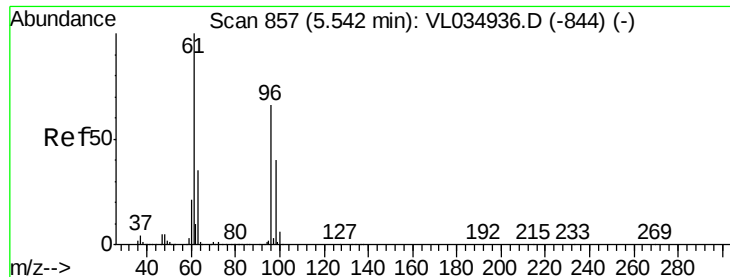
Ion Ratio Lower Upper

84 100

56 138.6 111.4 167.2

41 86.2 66.7 100.1





#31

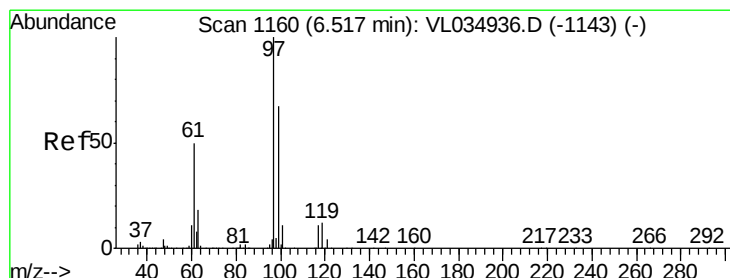
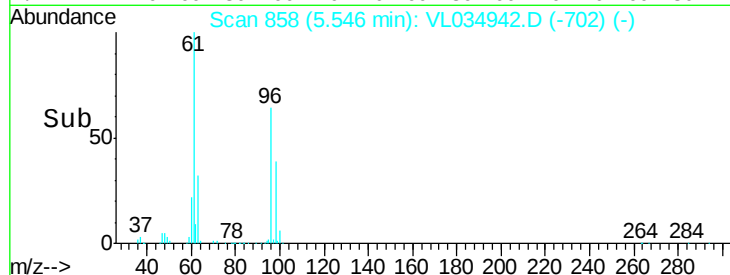
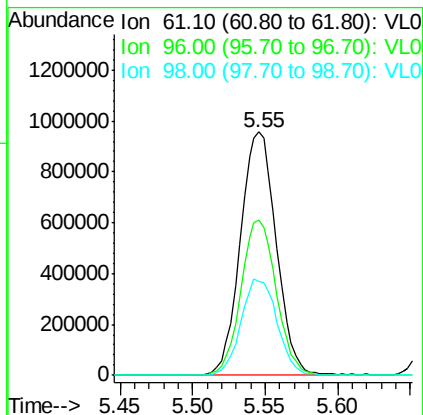
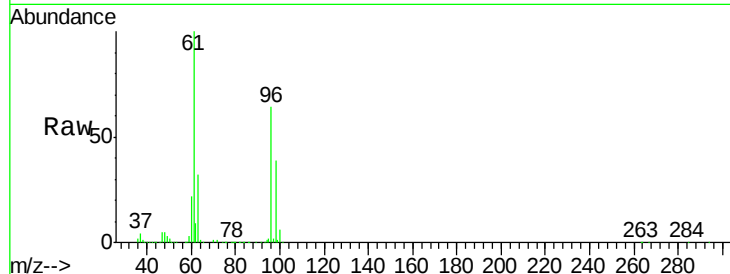
cis-1,2-Dichloroethene
 Concen: 13.300 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.8	53.0	79.6
98	38.7	32.2	48.2

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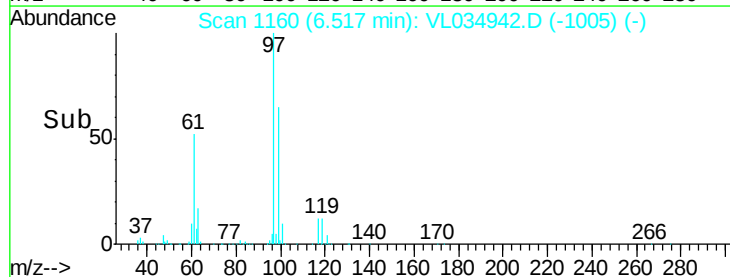
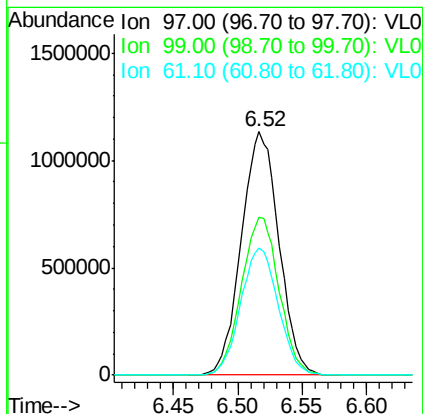
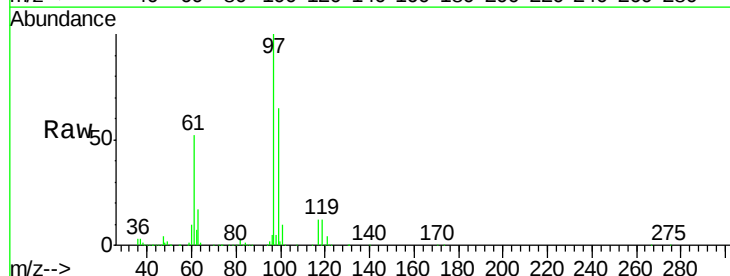
MMDadoda
 5/7/2020 2:30:05 PM

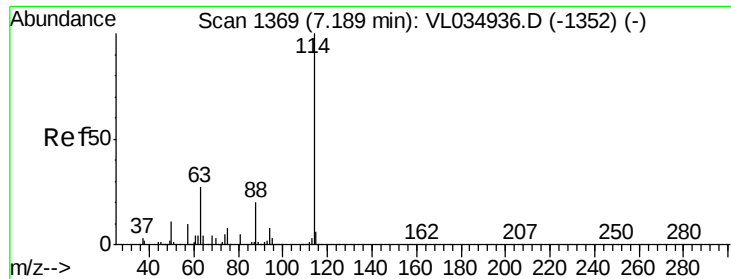


#32

1,1,1-Trichloroethane
 Concen: 12.813 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. -0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.1	78.1
61	52.3	41.8	62.8





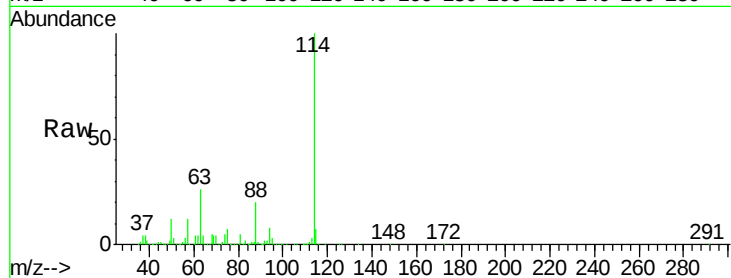
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

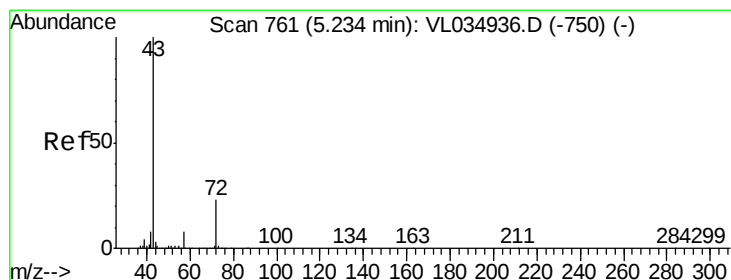
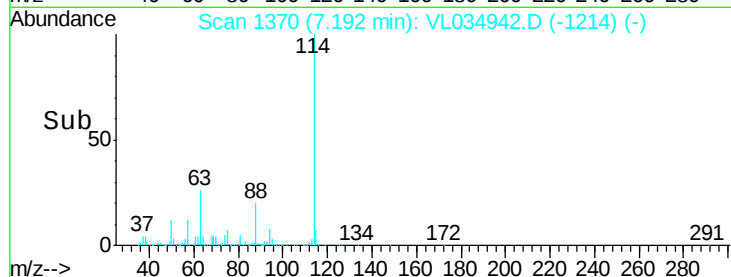
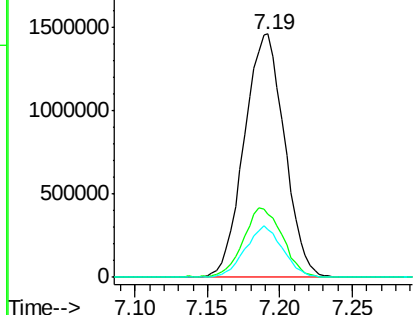
Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.2	33.4
88	19.6	15.5	23.3

Manual Integrations
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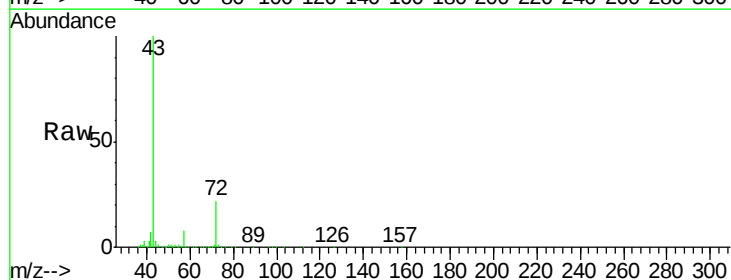


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

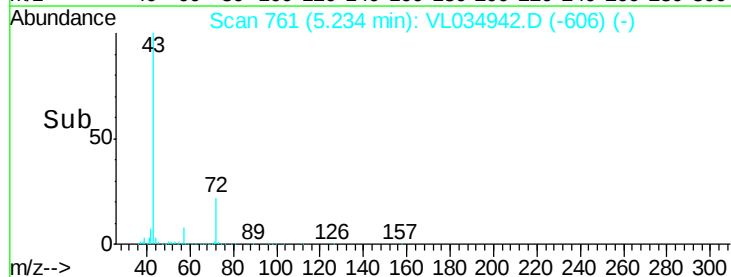
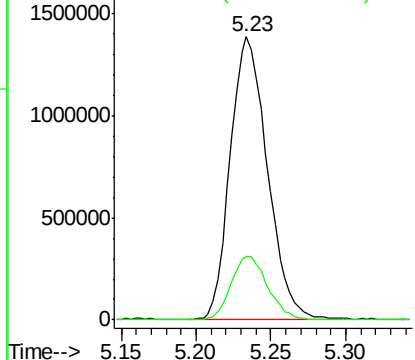


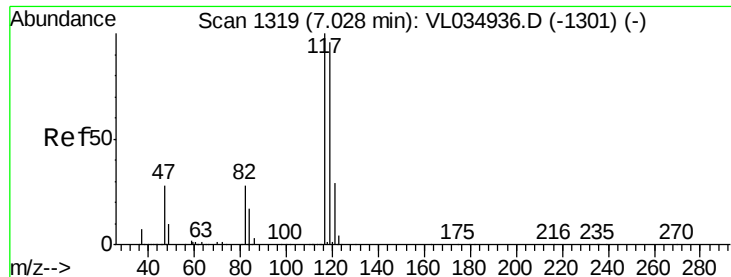
#34
 2-Butanone
 Concen: 12.743 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.0	27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 13.372 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2356020

Ion Ratio Lower Upper

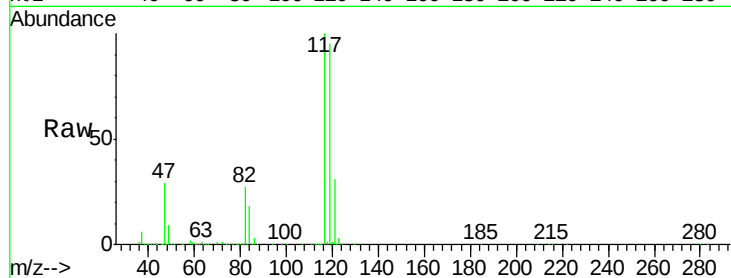
117 100

119 95.1 77.0 115.6

121 31.4 23.0 34.6

Manual Integrations
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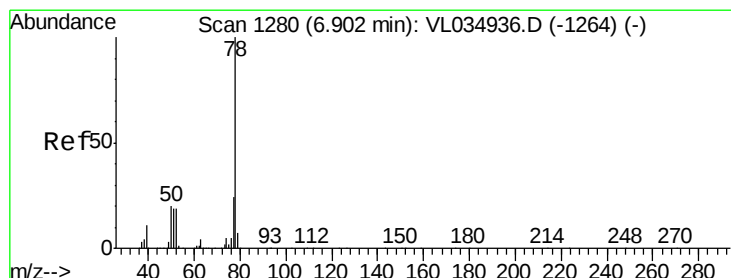
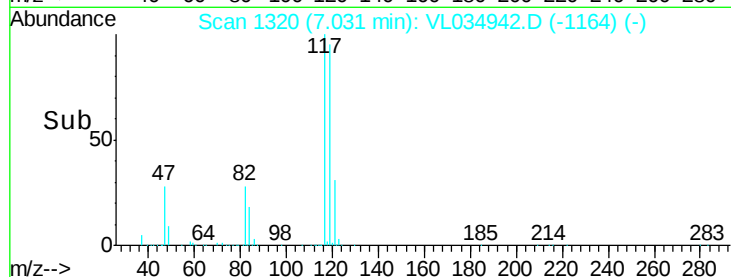
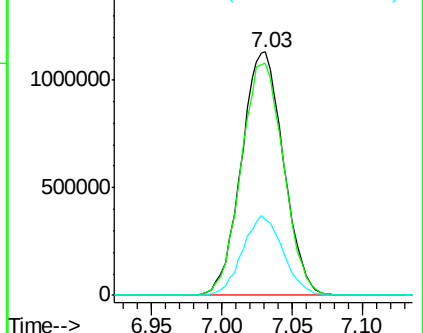
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 12.567 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

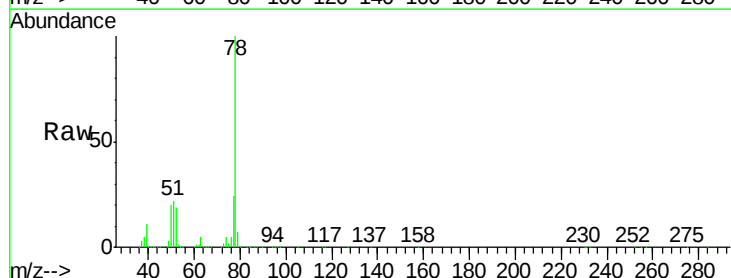
Tgt Ion: 78 Resp: 3173407

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.6

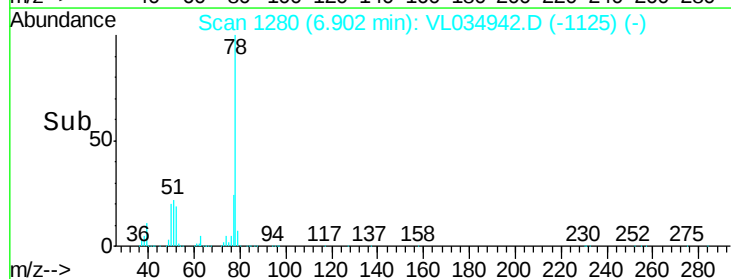
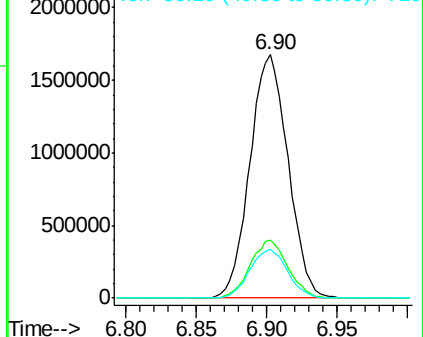
50 20.1 15.8 23.8

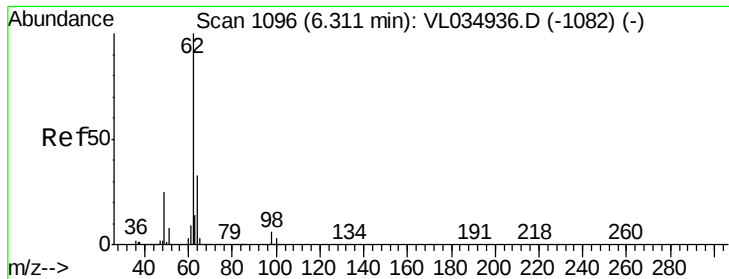


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 13.245 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1885766

Ion Ratio Lower Upper

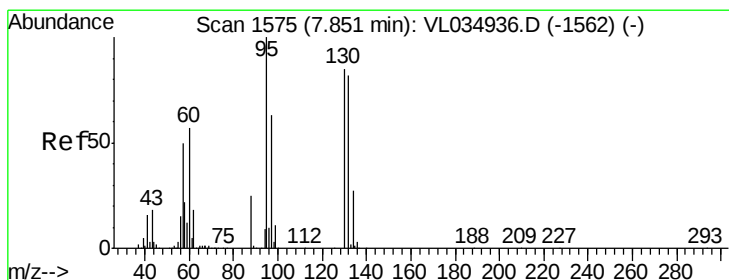
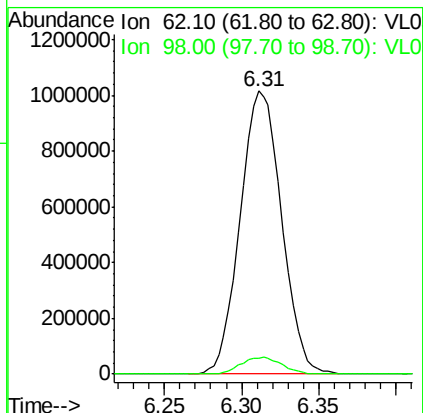
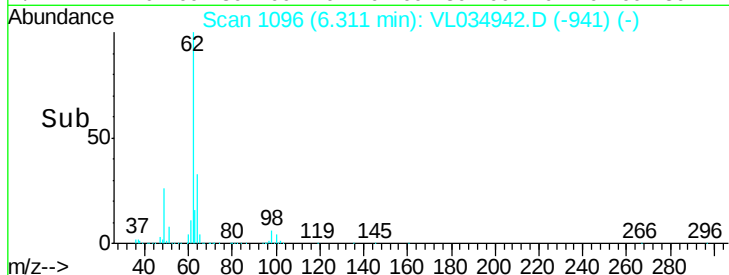
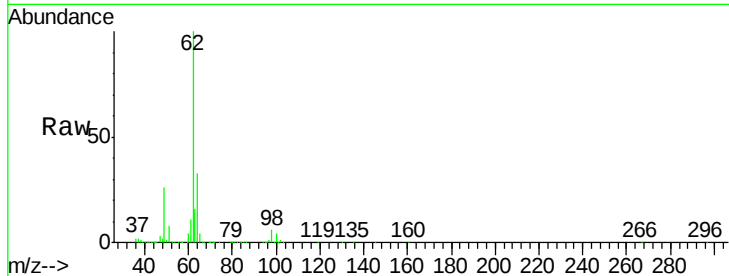
62 100

98 6.0 4.8 7.2

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#38

Trichloroethene

Concen: 12.268 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Tgt Ion: 130 Resp: 1176484

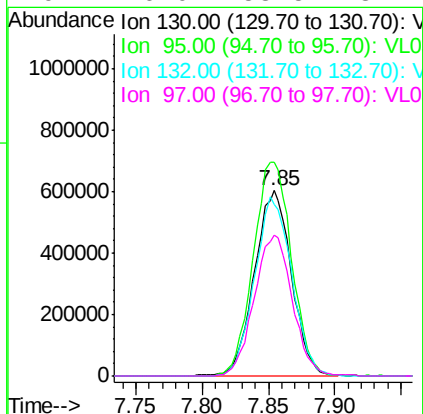
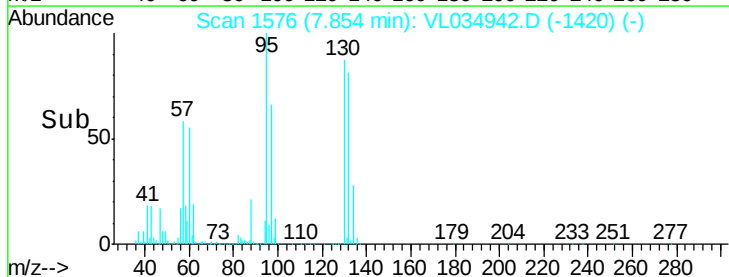
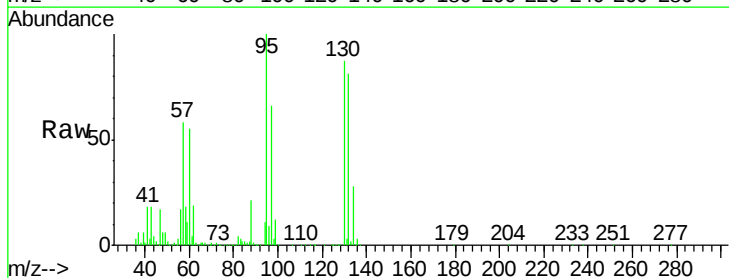
Ion Ratio Lower Upper

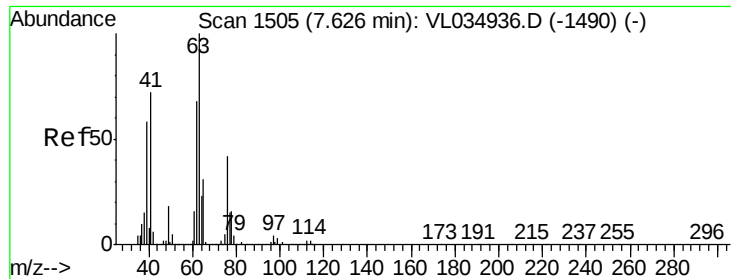
130 100

95 115.2 93.4 140.0

132 92.8 76.4 114.6

97 76.0 58.5 87.7





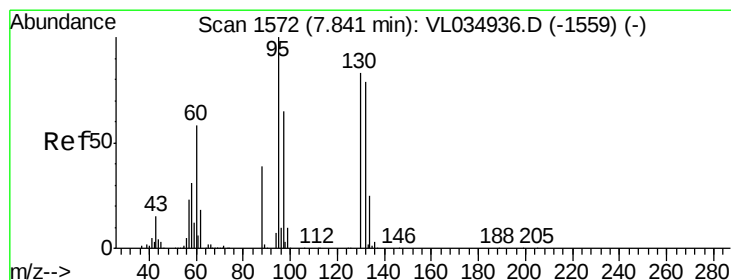
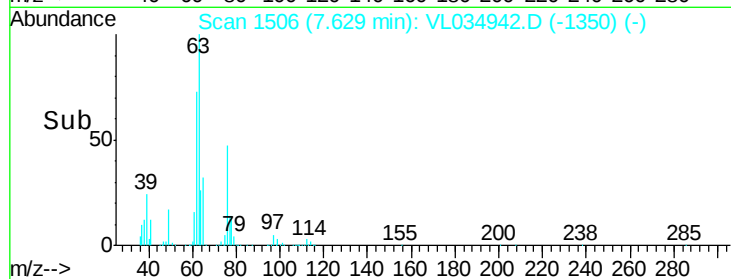
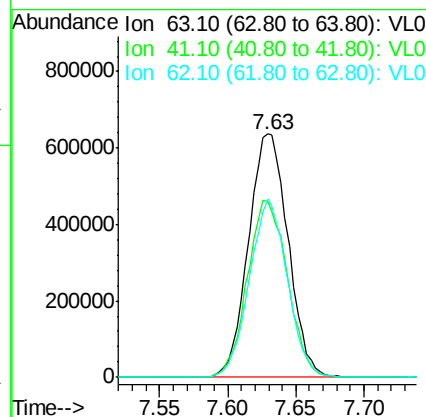
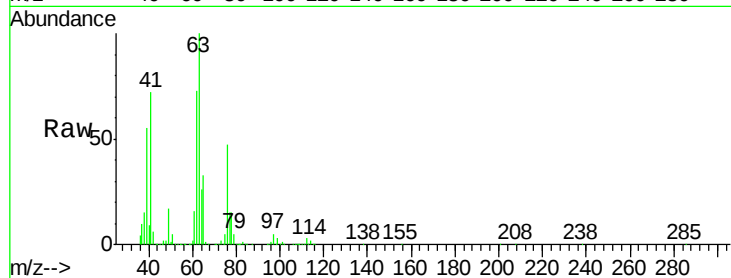
#39
 1,2-Dichloropropane
 Concen: 12.828 ppbv
 RT: 7.63 min Scan# 1506
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	71.9	57.8	86.8
62	73.0	54.2	81.2

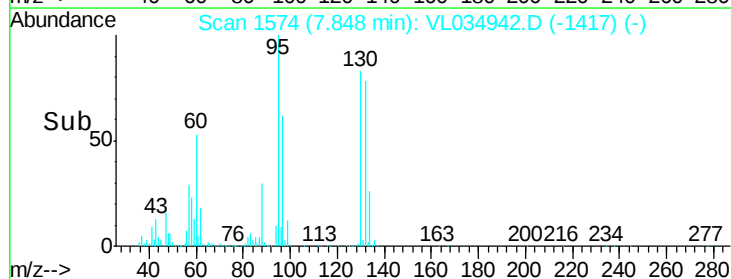
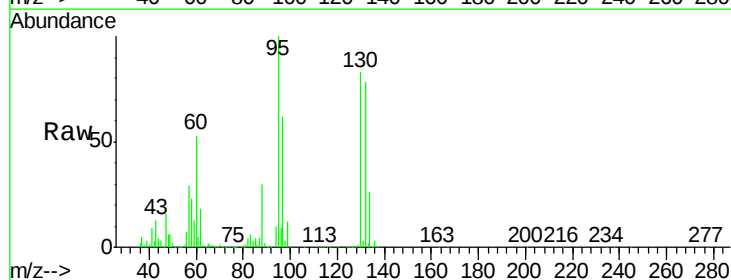
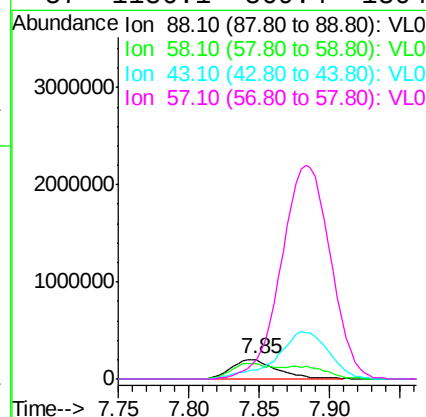
Manual Integrations
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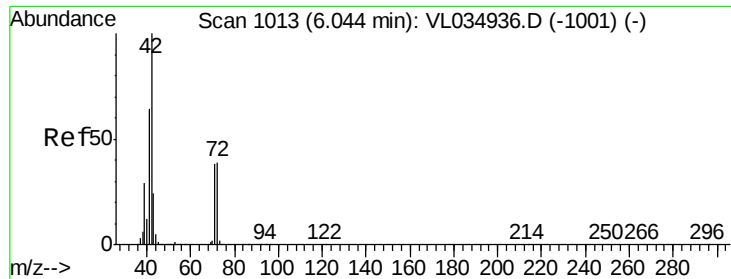
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 5/7/2020 2:30:05 PM



#40
 1,4-Dioxane
 Concen: 11.962 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
88	100		
58	137.1	105.1	157.7
43	278.3	202.6	303.8
57	1186.1	869.4	1304.0





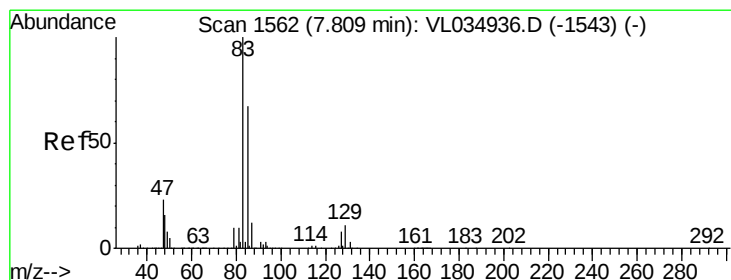
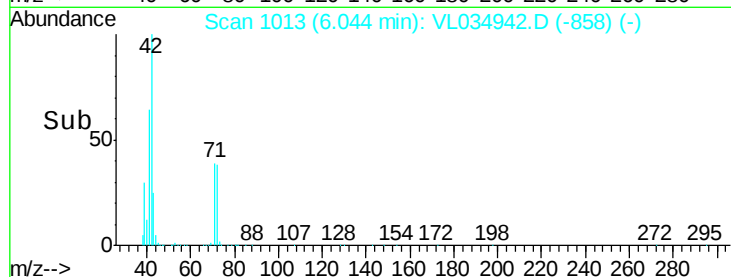
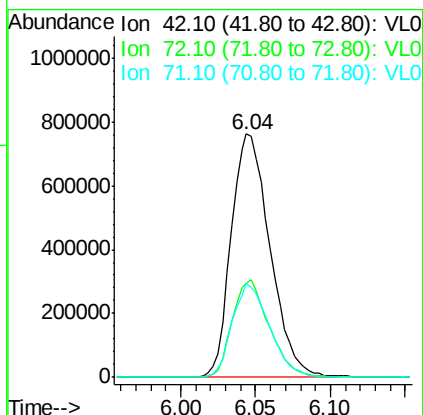
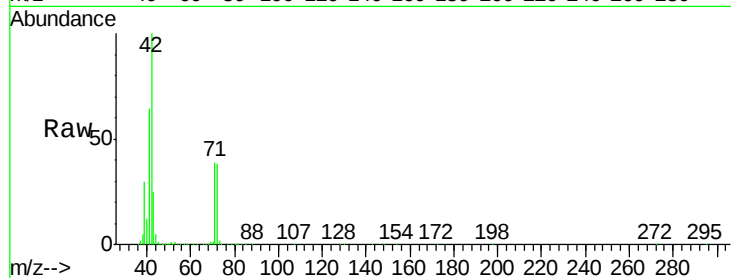
#41
Tetrahydrofuran
Concen: 13.511 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.5	31.4	47.0
71	37.2	29.8	44.8

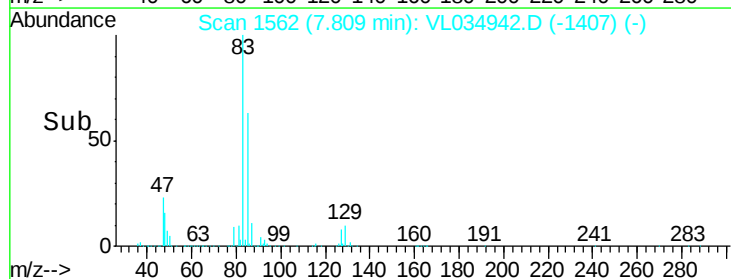
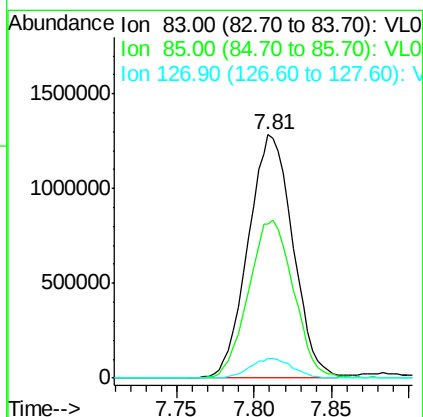
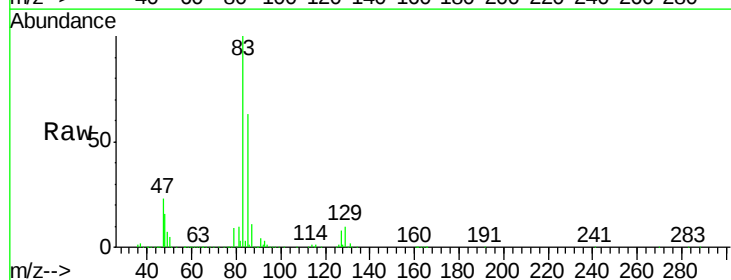
Manual Integrations
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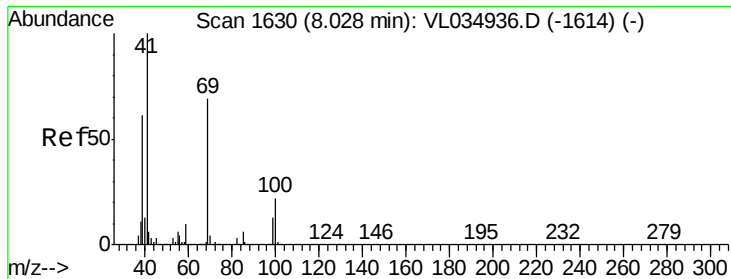
MMDadoda
5/7/2020 2:30:05 PM



#42
Bromodichloromethane
Concen: 13.303 ppbv
RT: 7.81 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	53.4	80.0
127	8.2	6.1	9.1





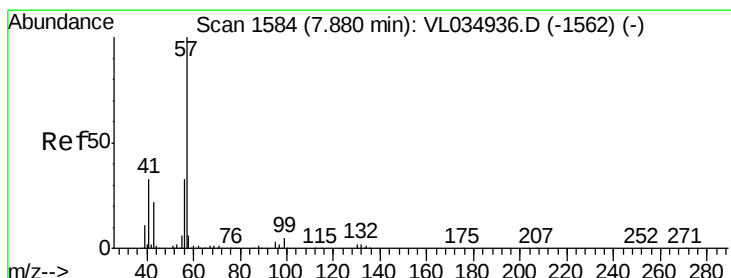
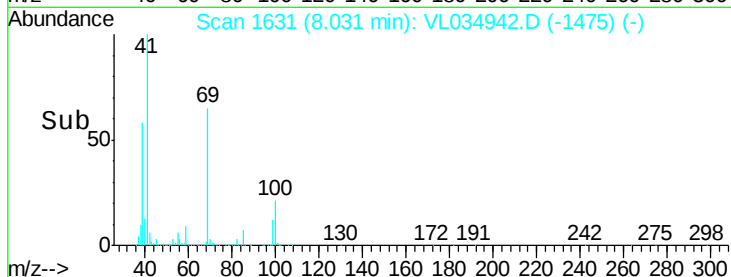
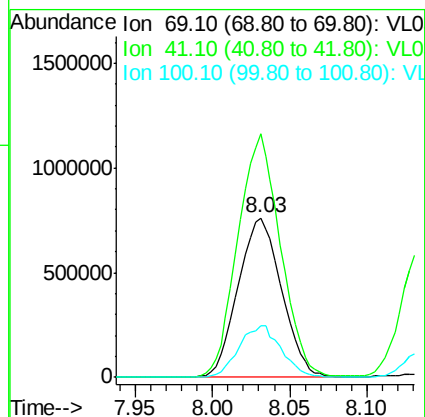
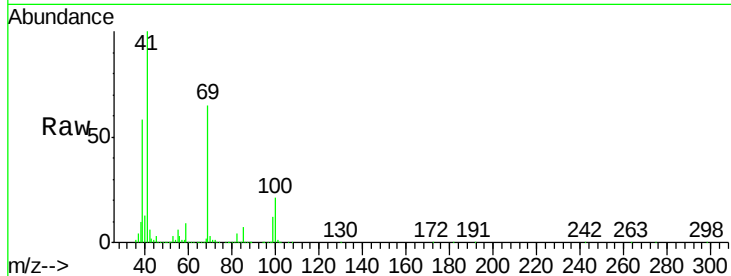
#43
Methvl Methacrvlate
Concen: 13.988 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1488034
Ion Ratio Lower Upper
69 100
41 149.5 119.8 179.6
100 31.5 25.0 37.6

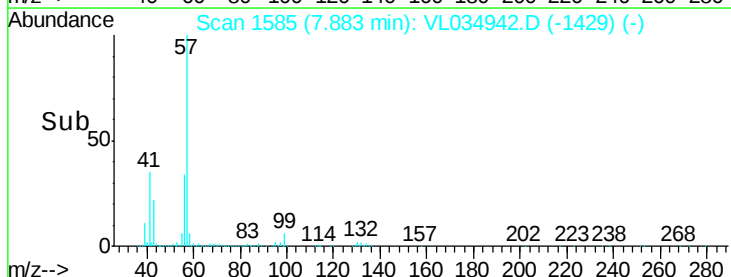
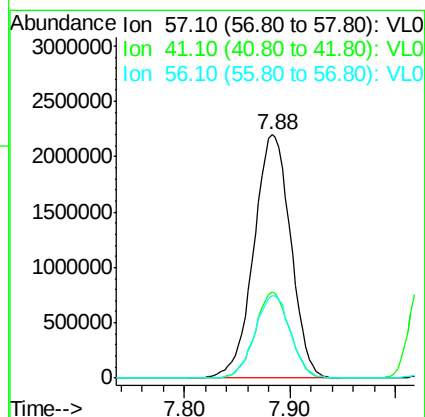
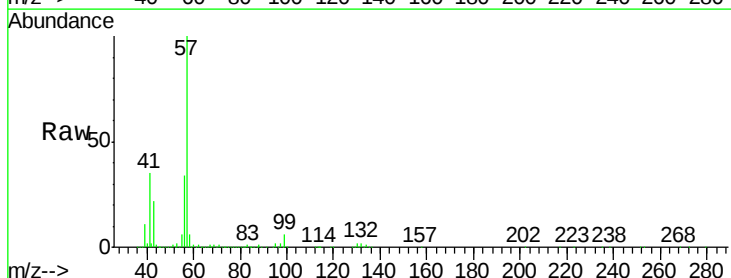
Manual Integrations
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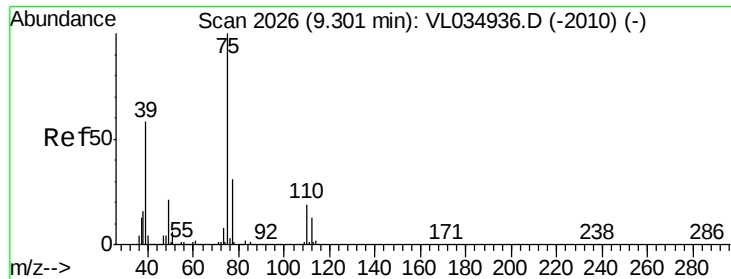
MMDadoda
5/7/2020 2:30:05 PM



#44
2,2,4-Trimethylpentane
Concen: 12.548 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion: 57 Resp: 5354438
Ion Ratio Lower Upper
57 100
41 33.4 26.4 39.6
56 32.7 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 13.574 ppbv

RT: 9.30 min Scan# 2027

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1696538

Ion Ratio Lower Upper

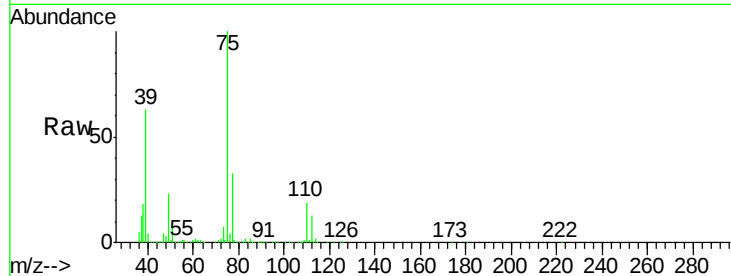
75 100

77 33.4 24.9 37.3

Manual Integrations
APPROVED

MMDadoda

5/7/2020 2:30:05 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

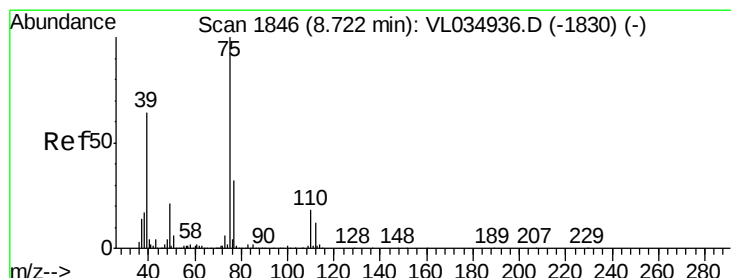
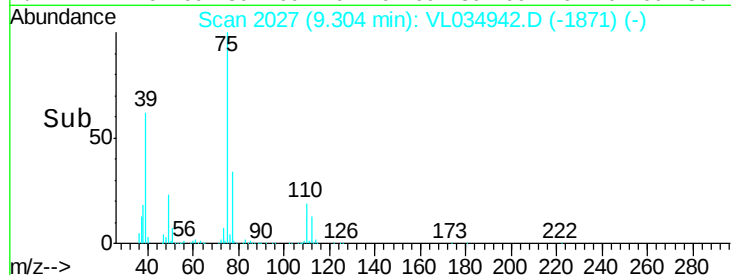
400000

200000

0

9.20 9.25 9.30 9.35

Time-->



#46

cis-1,3-Dichloropropene

Concen: 13.350 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

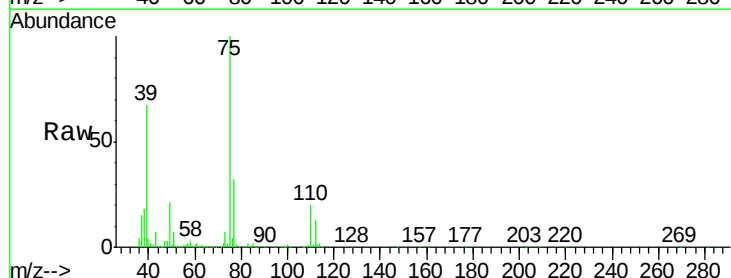
Tgt Ion: 75 Resp: 1982692

Ion Ratio Lower Upper

75 100

39 67.0 51.5 77.3

77 31.5 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

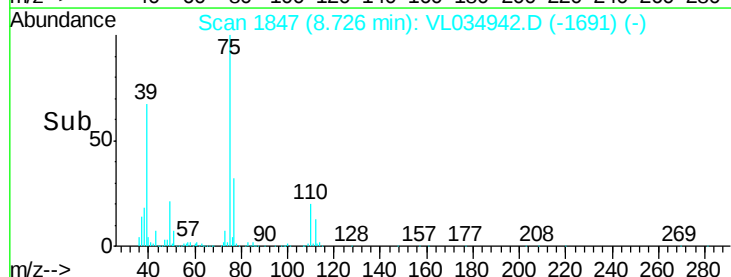
1000000

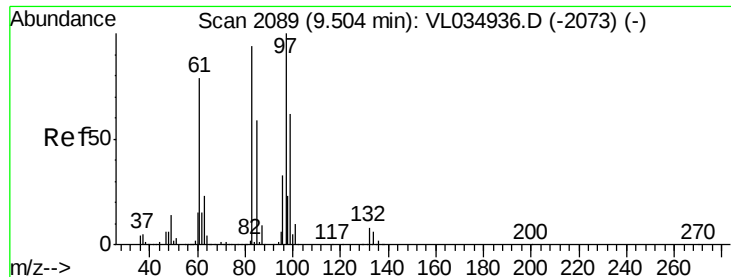
500000

0

8.65 8.70 8.75 8.80

Time-->





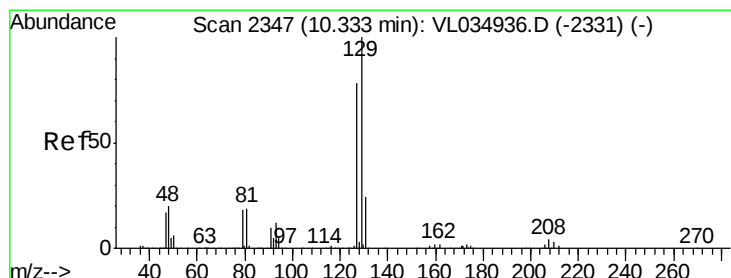
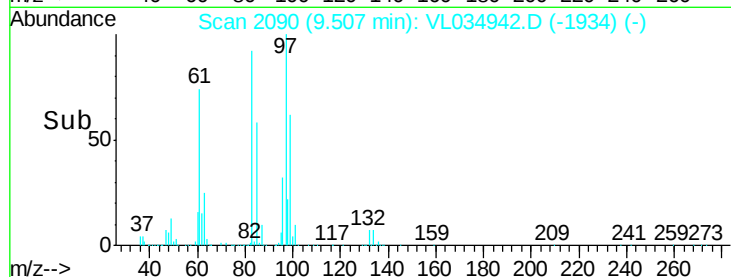
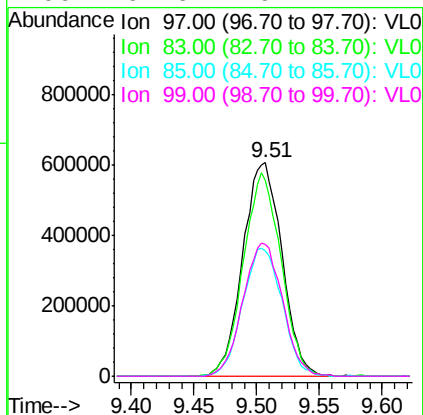
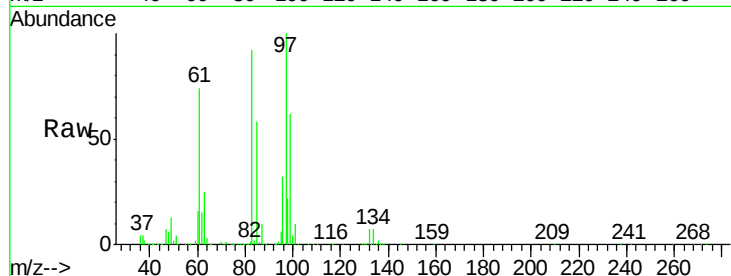
#47
 1,1,2-Trichloroethane
 Concen: 12.838 ppbv
 RT: 9.51 min Scan# 2090
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.9	75.6	113.4	
85	58.4	47.0	70.6	
99	61.6	49.4	74.2	

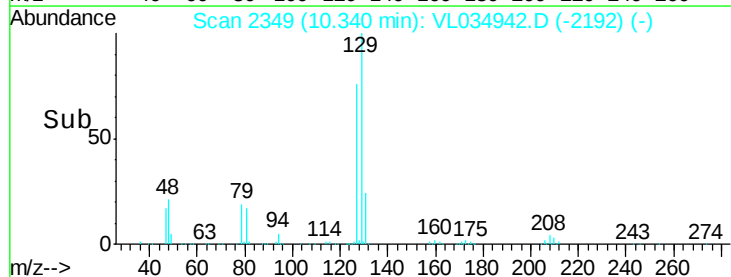
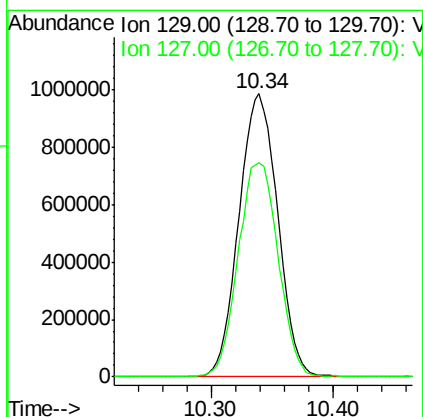
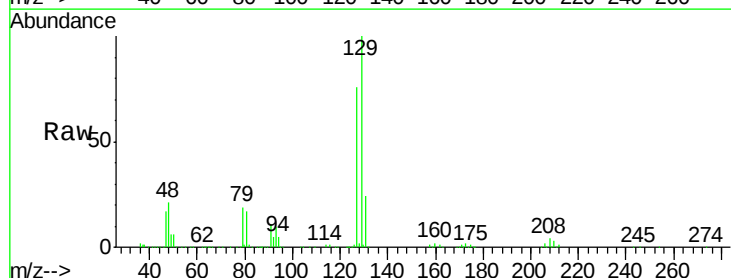
Manual Integrations
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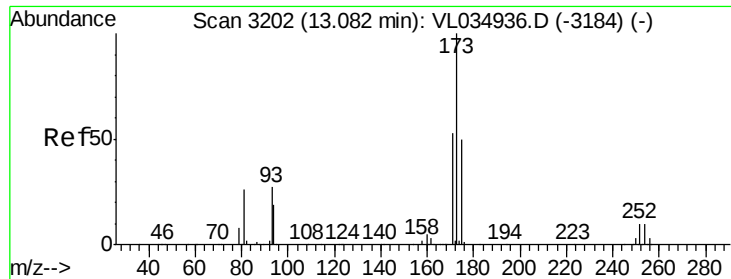
MMDadoda
 5/7/2020 2:30:05 PM



#48
 Dibromochloromethane
 Concen: 13.020 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. 0.01 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.1	39.1	117.2	





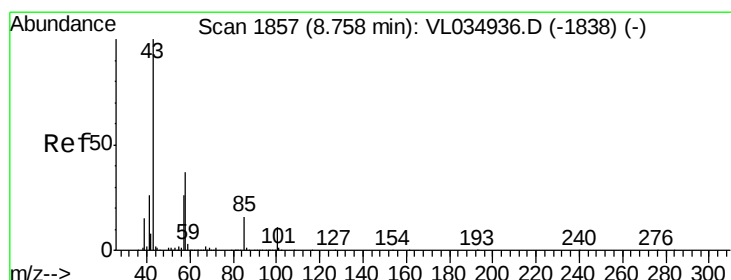
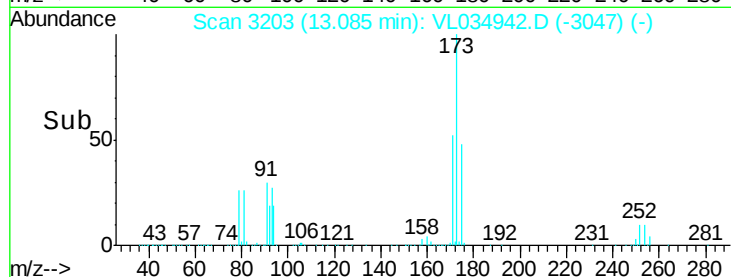
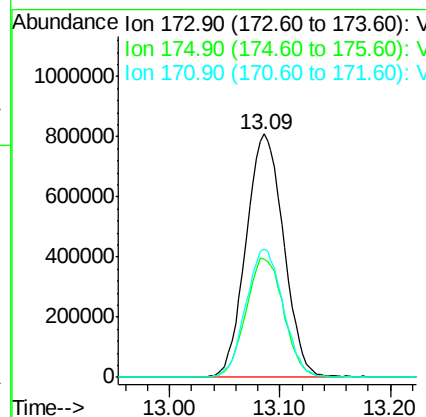
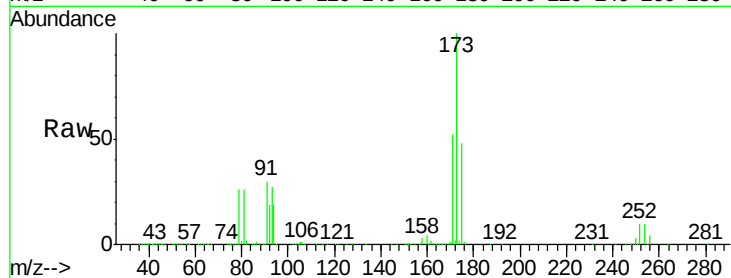
#49
Bromoform
Concen: 12.903 ppbv
RT: 13.09 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion:173 Resp: 1912958
Ion Ratio Lower Upper
173 100
175 49.3 39.0 58.6
171 52.5 41.4 62.2

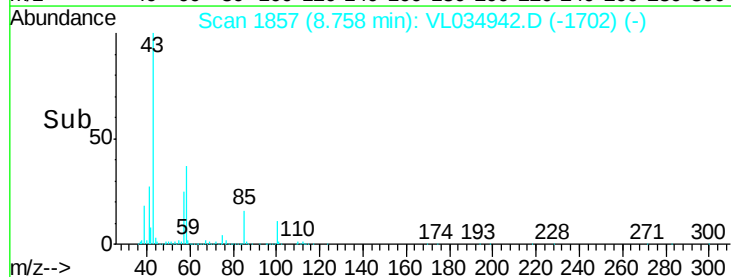
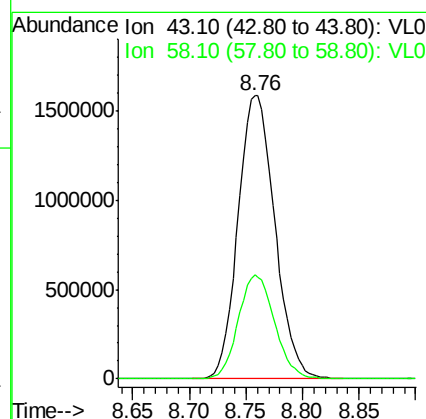
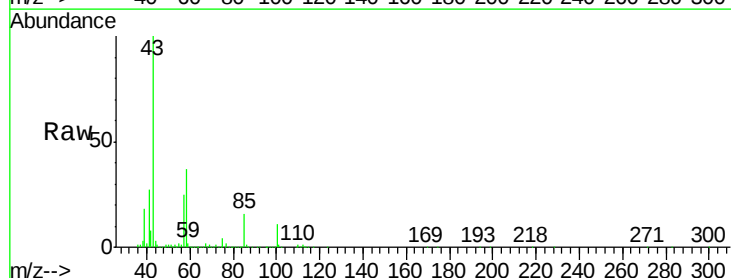
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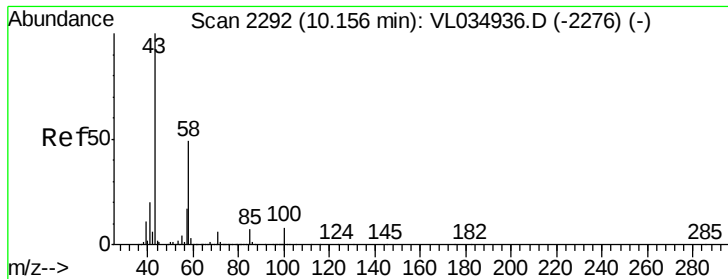
MMDadoda
5/7/2020 2:30:05 PM



#50
4-Methyl-2-Pentanone
Concen: 13.267 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion: 43 Resp: 3595407
Ion Ratio Lower Upper
43 100
58 36.2 29.1 43.7





#51

2-Hexanone

Concen: 13.642 ppbv

RT: 10.16 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3004422

Ion Ratio Lower Upper

43 100

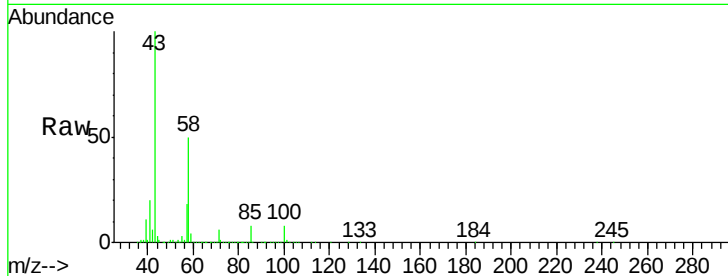
58 48.9 39.1 58.7

98 0.4 0.3 0.5

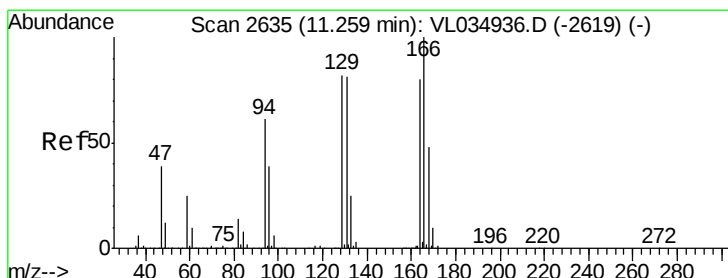
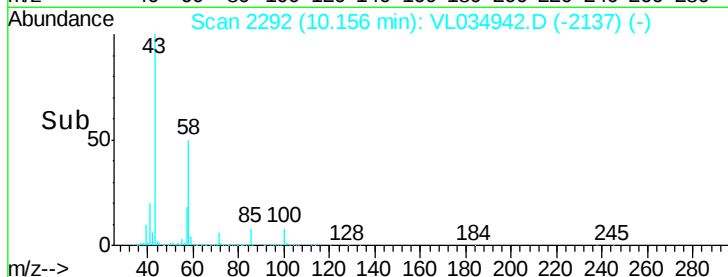
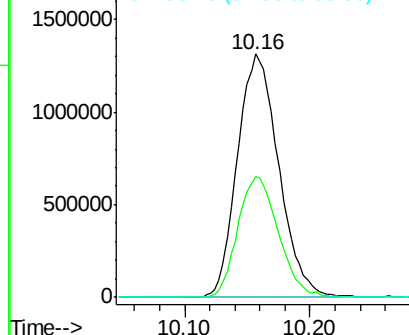
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.026 ppbv

RT: 11.26 min Scan# 2634

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Tgt Ion: 164 Resp: 1101398

Ion Ratio Lower Upper

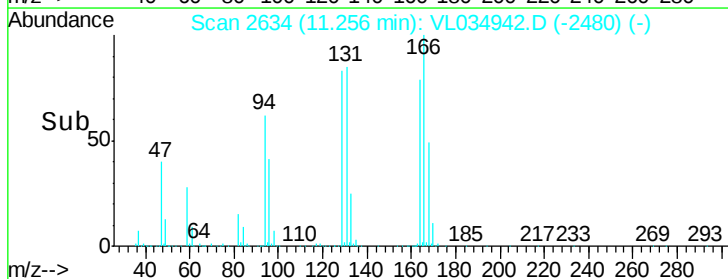
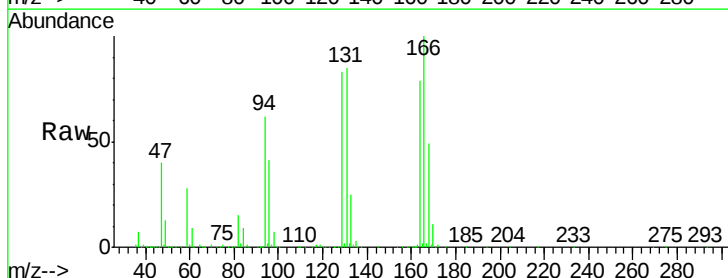
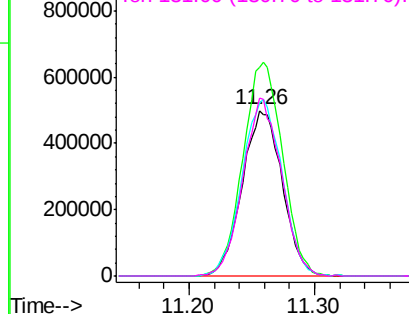
164 100

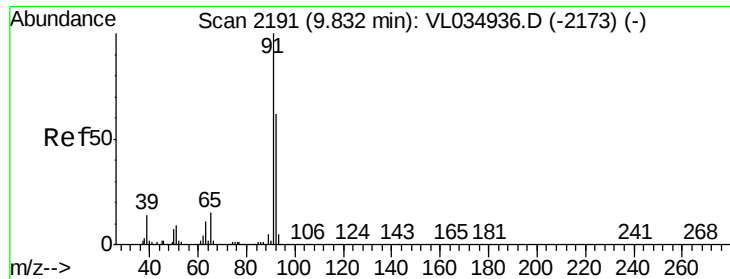
166 126.5 100.7 151.1

129 104.4 83.0 124.4

131 107.6 81.0 121.4

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 12.584 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3669329

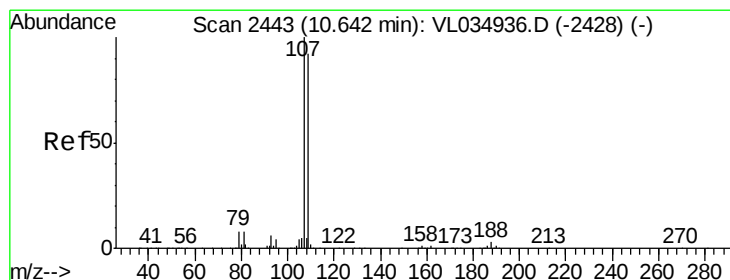
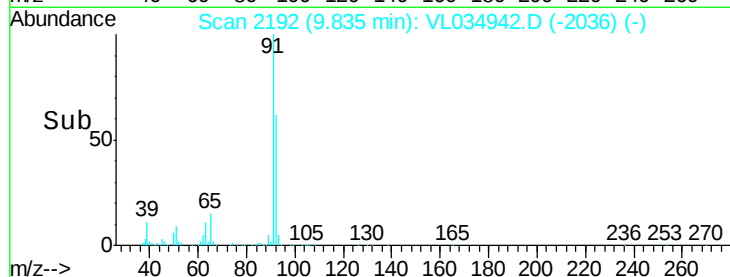
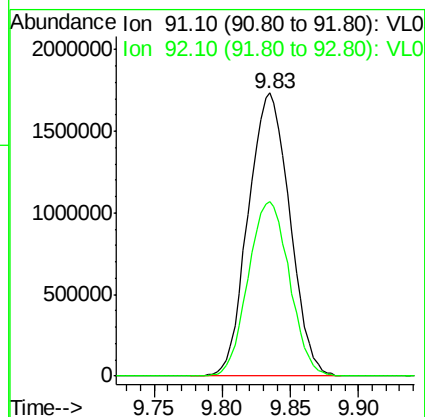
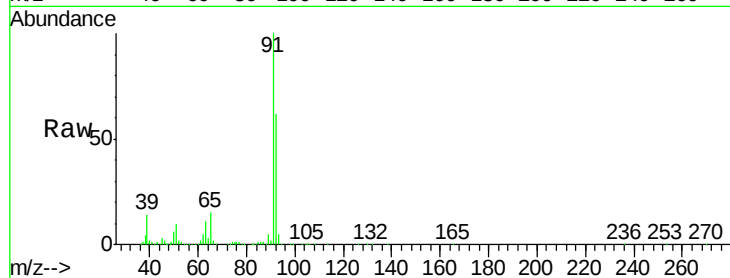
Ion Ratio Lower Upper

91 100

92 61.5 48.6 73.0

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 12.794 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.00 min

Lab File: VL034942.D

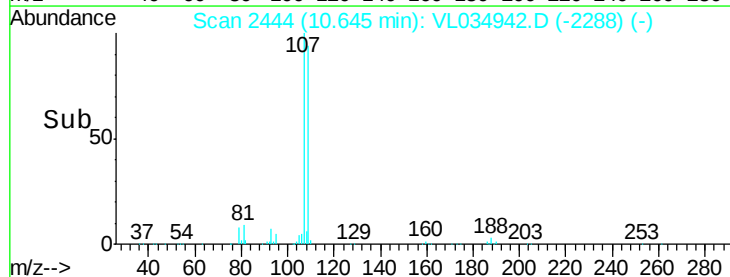
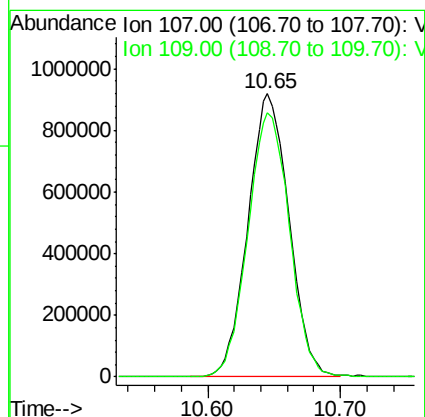
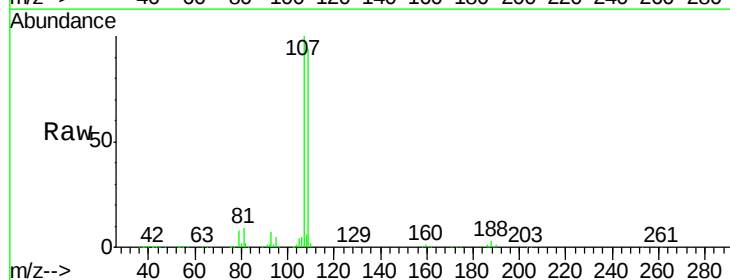
Acq: 6 May 2020 14:02

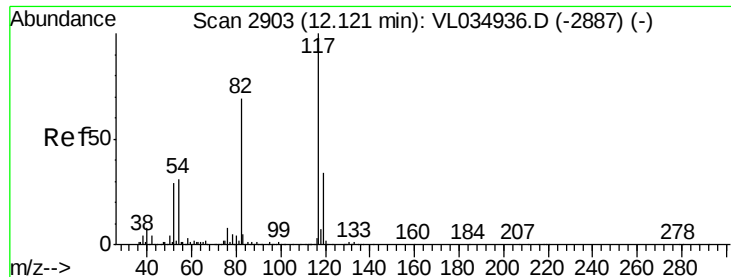
Tgt Ion: 107 Resp: 1977256

Ion Ratio Lower Upper

107 100

109 93.5 73.2 109.8





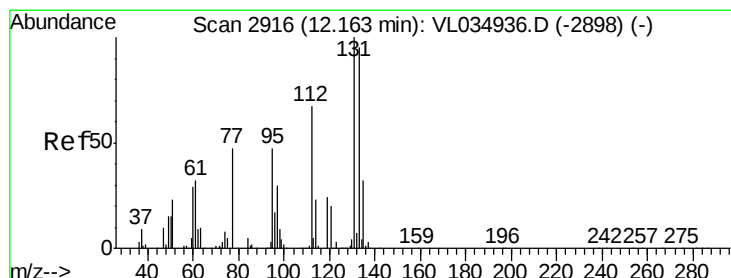
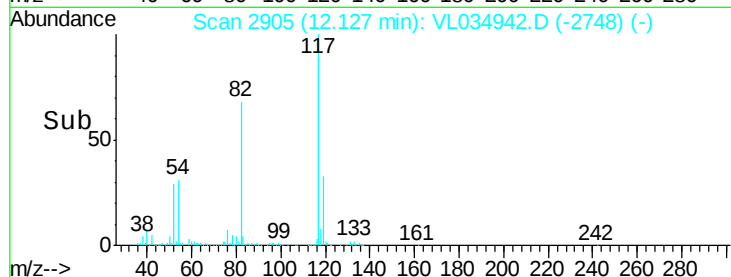
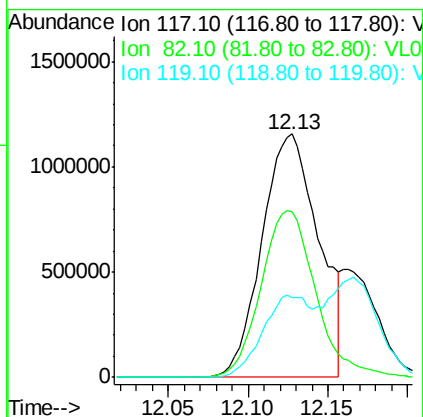
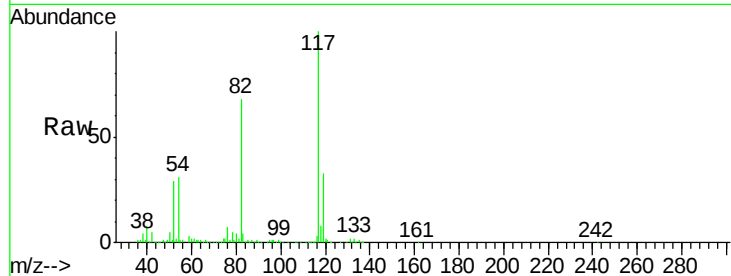
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.9	53.1	79.7
119	32.4	26.7	40.1

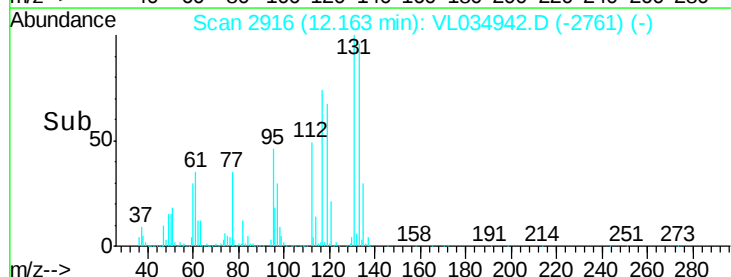
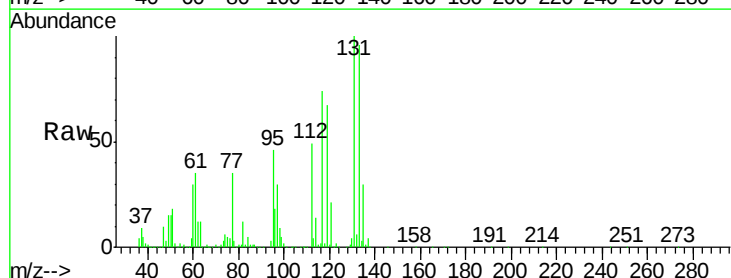
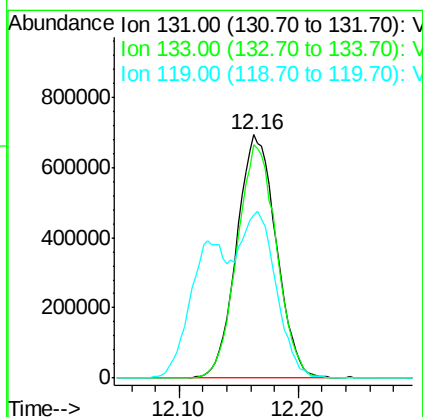
Manual Integrations
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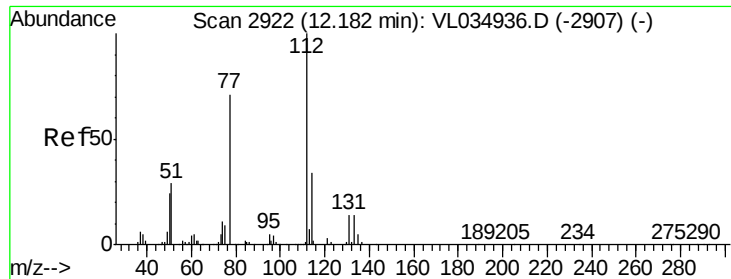
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.448 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.9	77.7	116.5
119	69.1	49.8	74.6





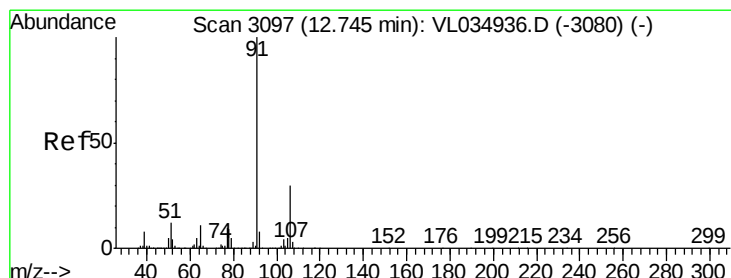
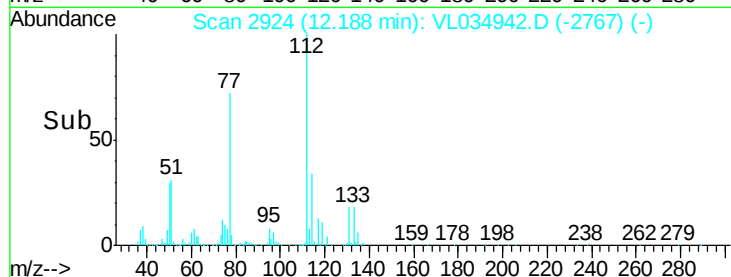
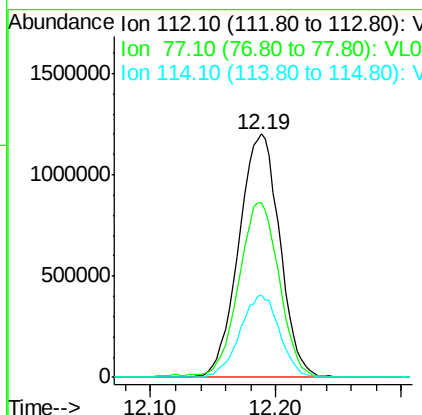
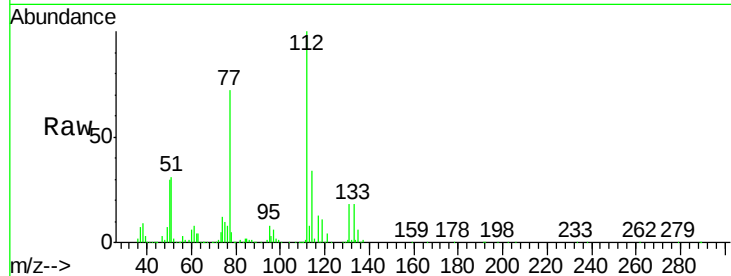
#57
Chlorobenzene
Concen: 12.202 ppbv
RT: 12.19 min Scan# 2924
Delta R.T. 0.01 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.4	57.0	85.6
114	33.7	30.8	37.6

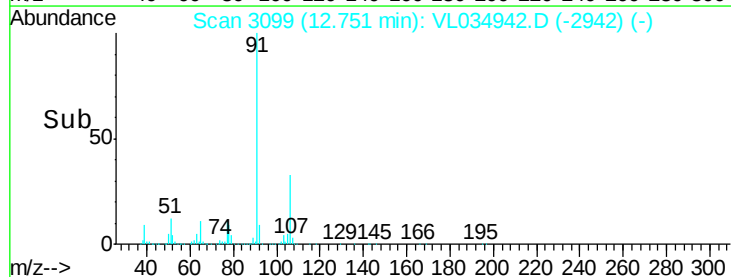
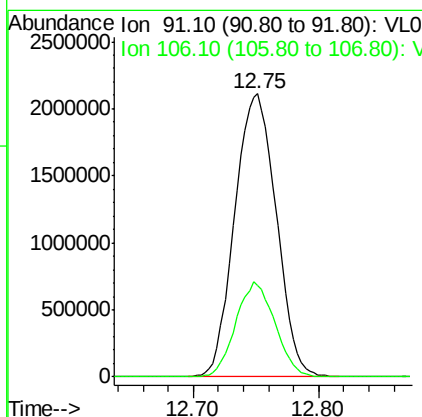
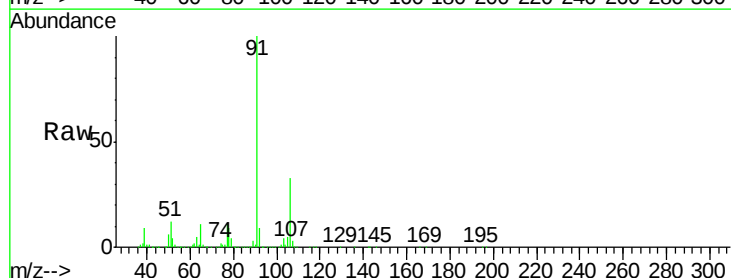
Manual Integrations
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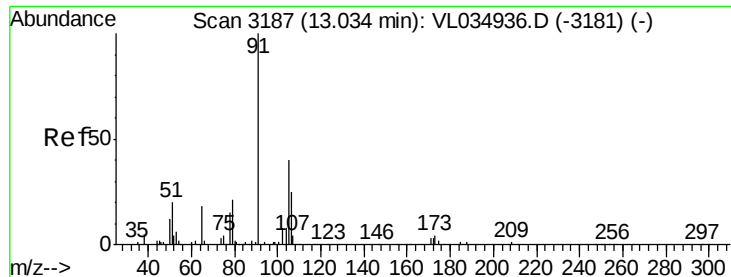
MMDadoda
5/7/2020 2:30:05 PM



#58
Ethyl Benzene
Concen: 12.547 ppbv
RT: 12.75 min Scan# 3099
Delta R.T. 0.01 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.5	24.2	36.4





#59

m/p-Xylene

Concen: 24.468 ppbv m

RT: 13.04 min Scan# 3188

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7904068

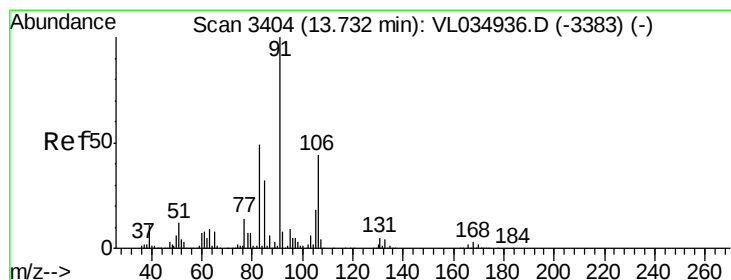
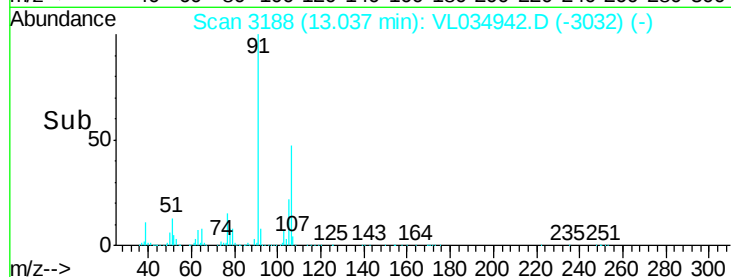
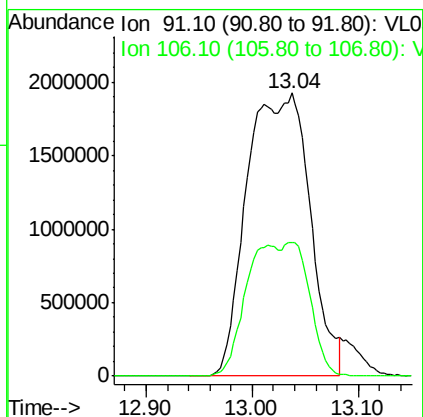
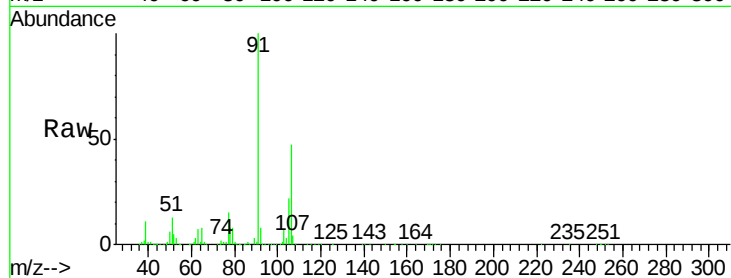
Ion Ratio Lower Upper

91 100

106 46.5 66.0 99.0#

Manual Integrations
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#60

o-Xylene

Concen: 12.396 ppbv

RT: 13.73 min Scan# 3405

Delta R.T. 0.00 min

Lab File: VL034942.D

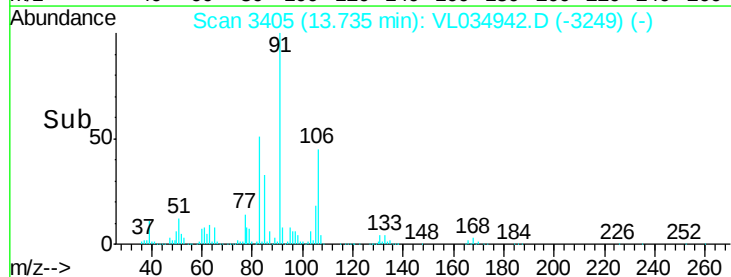
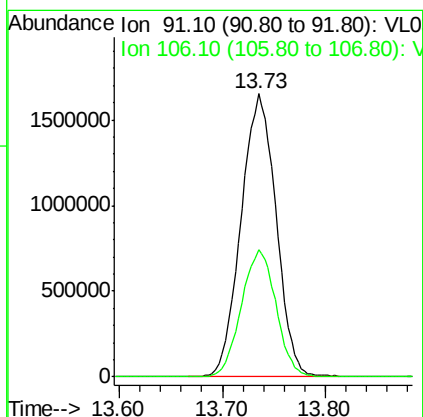
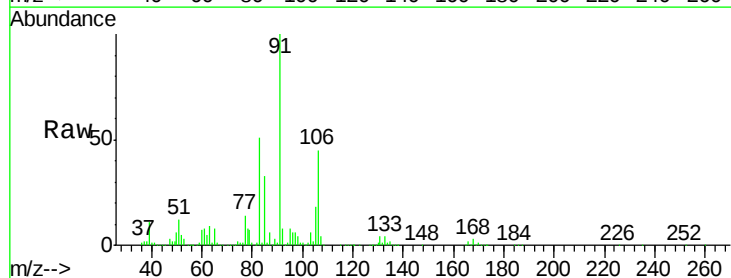
Acq: 6 May 2020 14:02

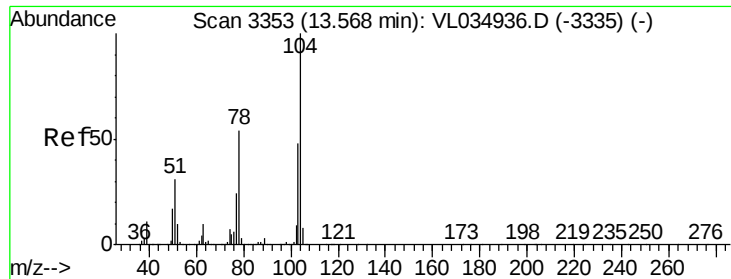
Tgt Ion: 91 Resp: 3909839

Ion Ratio Lower Upper

91 100

106 44.5 21.9 65.5





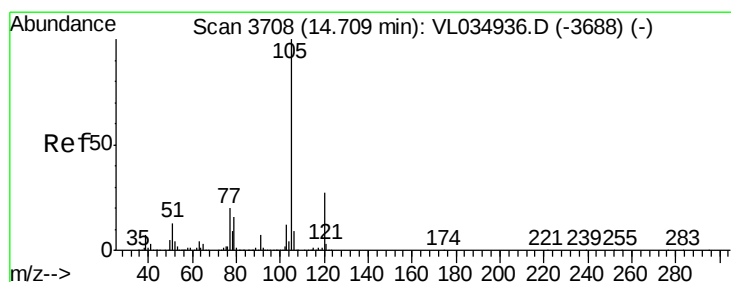
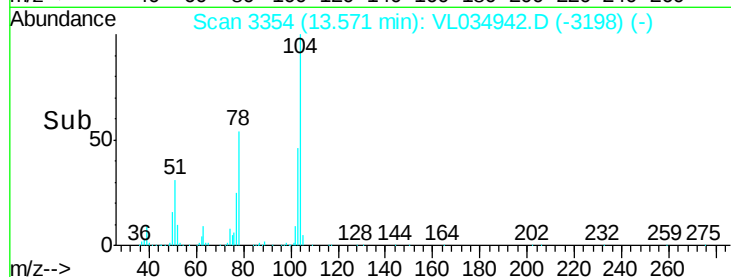
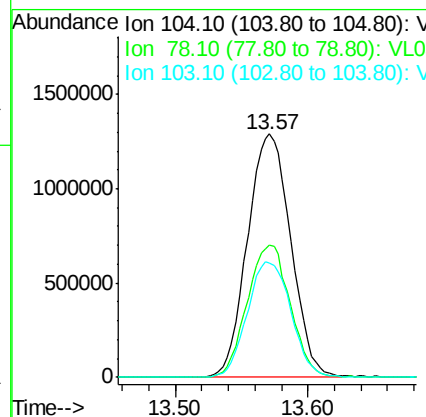
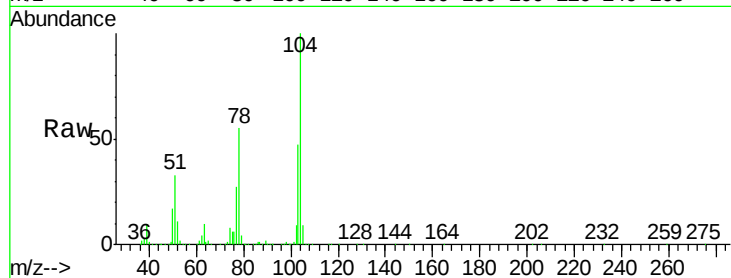
#61
Stvrene
Concen: 13.188 ppbv
RT: 13.57 min Scan# 3354
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.3	43.7	65.5
103	48.1	38.8	58.2

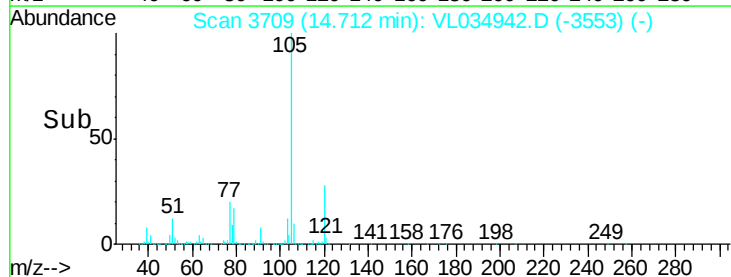
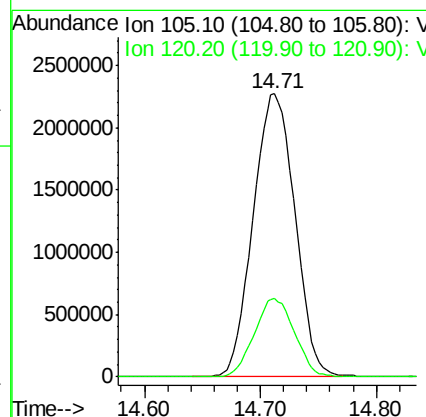
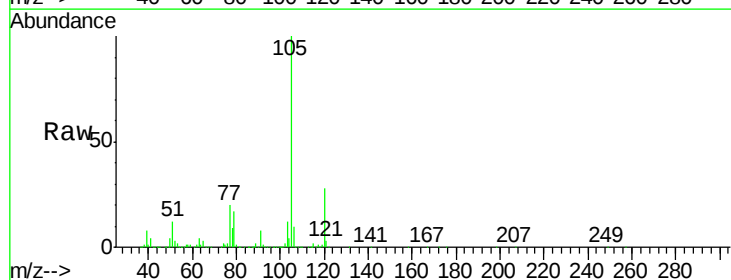
Manual Integrations
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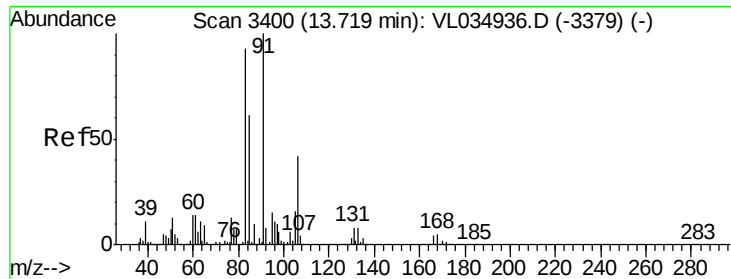
MMDadoda
5/7/2020 2:30:05 PM



#62
Isopropylbenzene
Concen: 11.943 ppbv
RT: 14.71 min Scan# 3709
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 12.896 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2761336

Ion Ratio Lower Upper

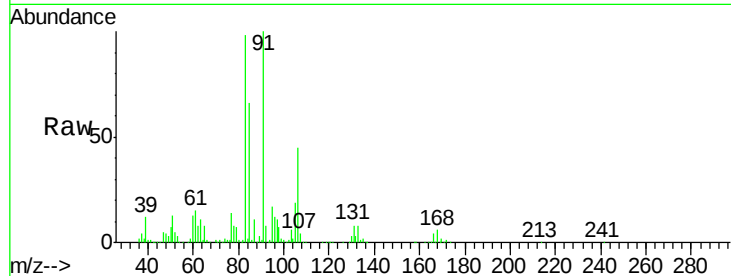
83 100

131 9.0 4.7 14.0

85 65.6 32.5 97.4

Manual Integrations
APPROVED

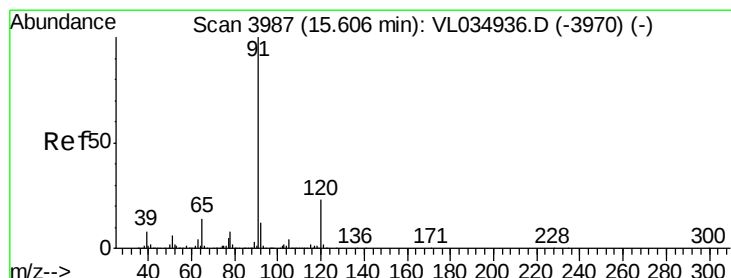
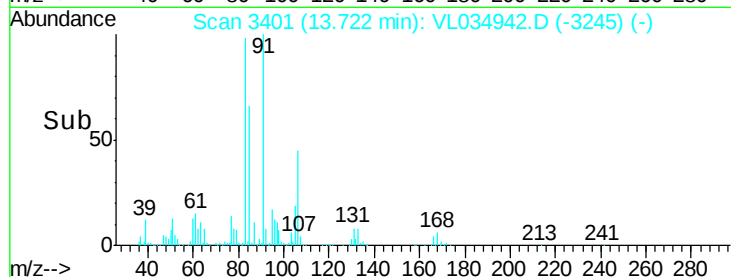
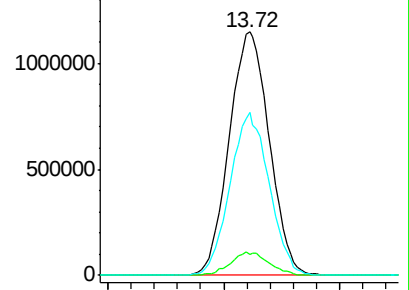
MMDadoda
5/7/2020 2:30:05 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 12.484 ppbv

RT: 15.61 min Scan# 3987

Delta R.T. -0.00 min

Lab File: VL034942.D

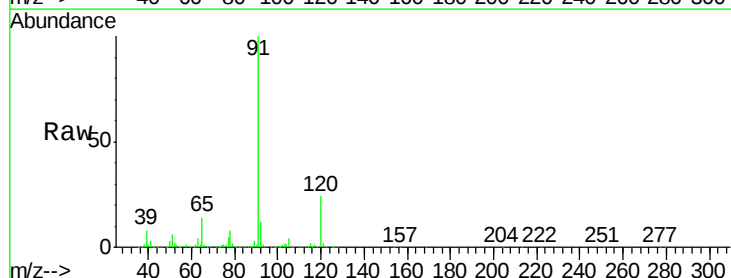
Acq: 6 May 2020 14:02

Tgt Ion: 120 Resp: 1549604

Ion Ratio Lower Upper

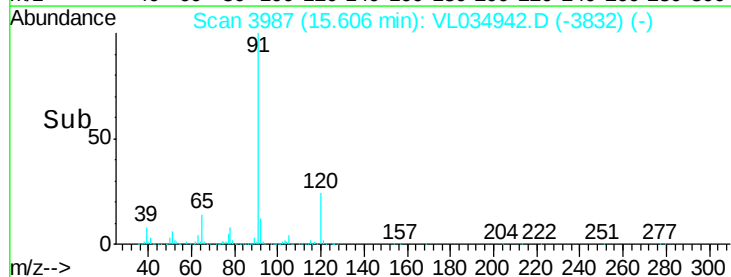
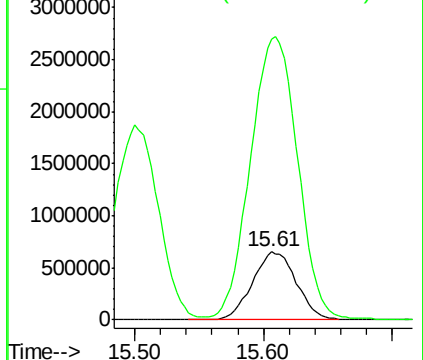
120 100

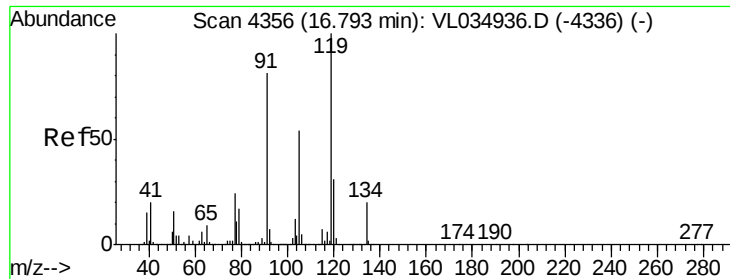
91 448.9 373.5 560.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





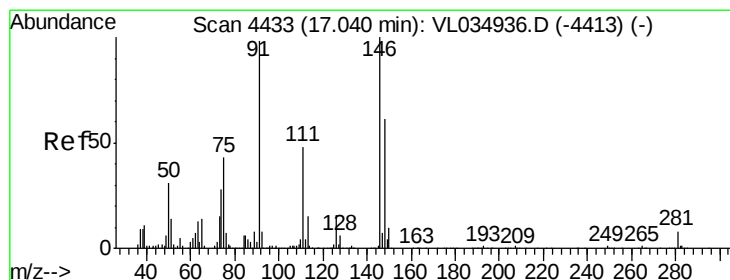
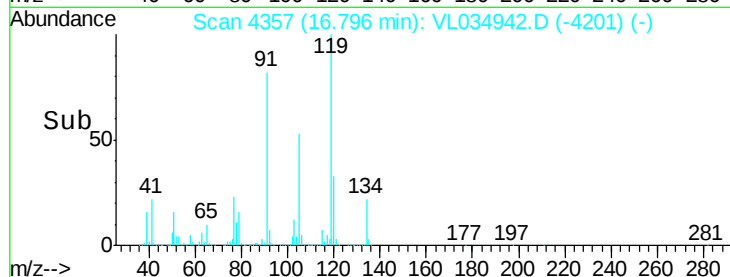
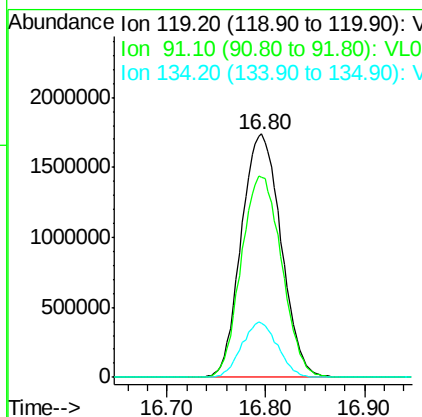
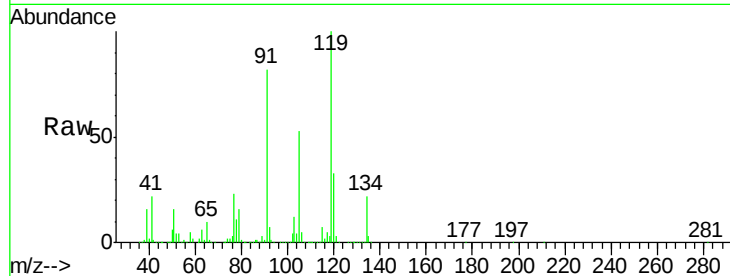
#65
 tert-Butylbenzene
 Concen: 11.608 ppbv
 RT: 16.80 min Scan# 4357
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp: 4839467
 Ion Ratio Lower Upper
 119 100
 91 84.2 67.5 101.3
 134 20.6 16.1 24.1

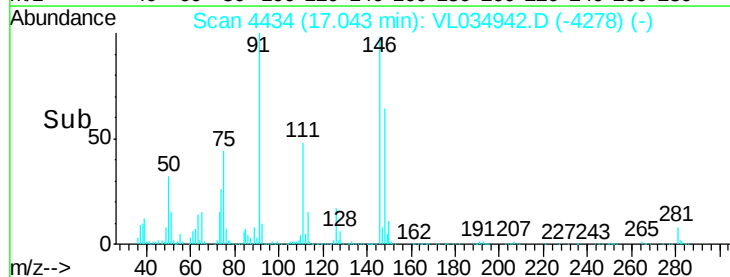
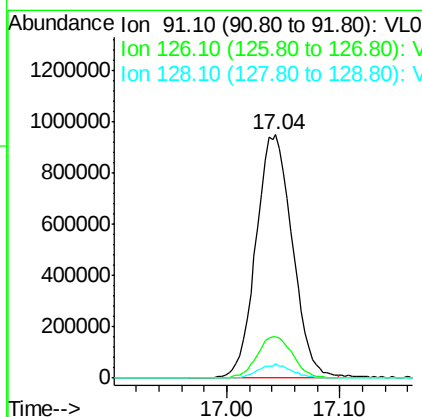
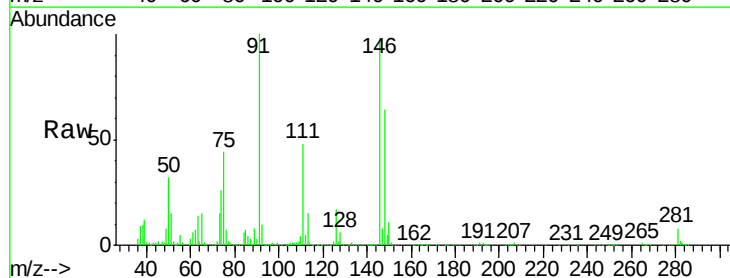
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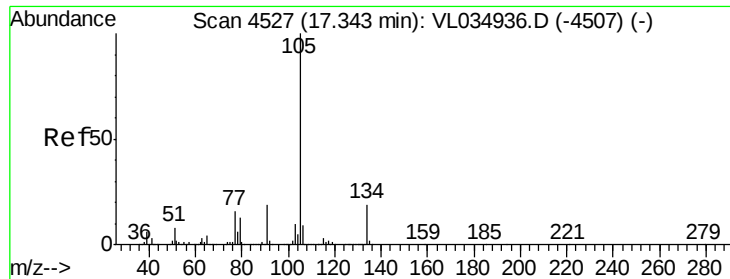
MMDadoda
 5/7/2020 2:30:05 PM



#66
 Benzyl Chloride
 Concen: 12.180 ppbv
 RT: 17.04 min Scan# 4434
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion: 91 Resp: 2117403
 Ion Ratio Lower Upper
 91 100
 126 16.9 13.8 20.6
 128 5.4 4.3 6.5





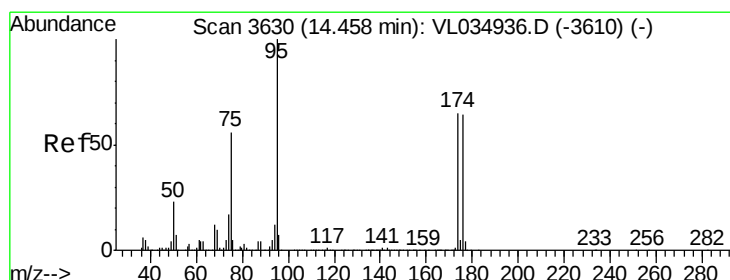
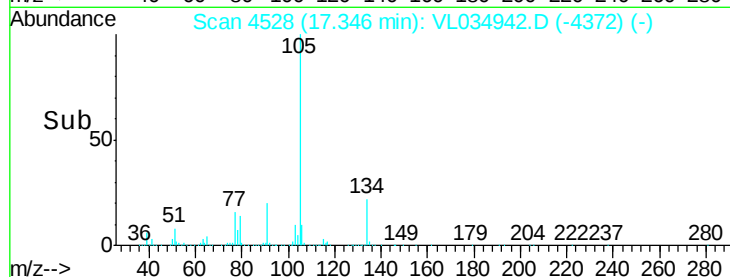
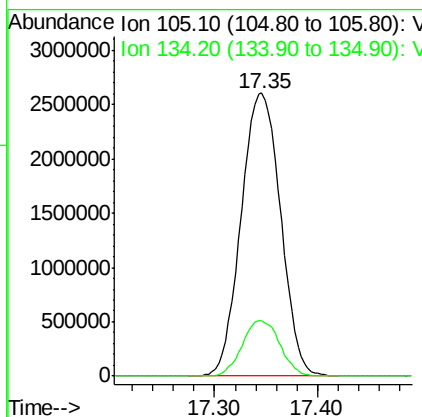
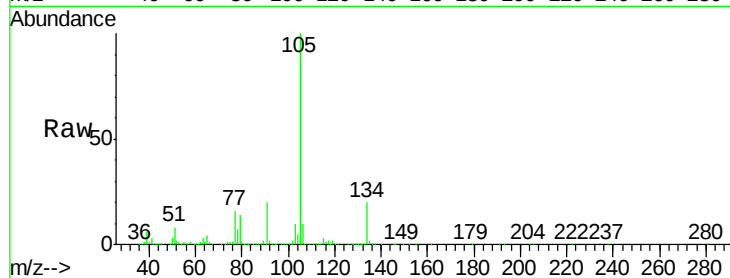
#67
 sec-Butylbenzene
 Concen: 11.975 ppbv
 RT: 17.35 min Scan# 4528
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 6922921
 Ion Ratio Lower Upper
 105 100
 134 18.9 14.8 22.2

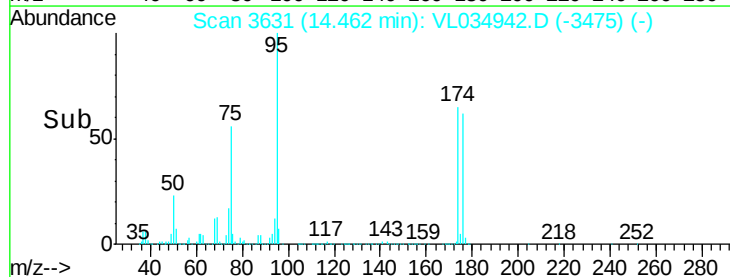
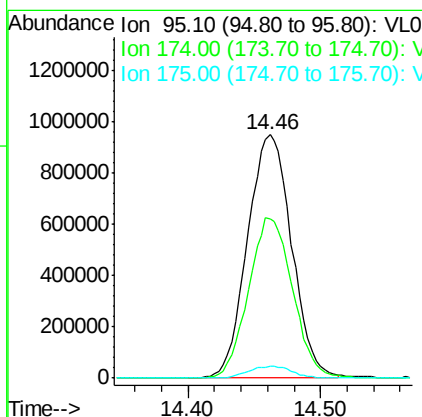
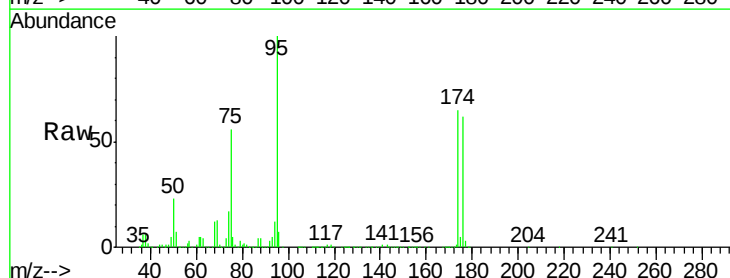
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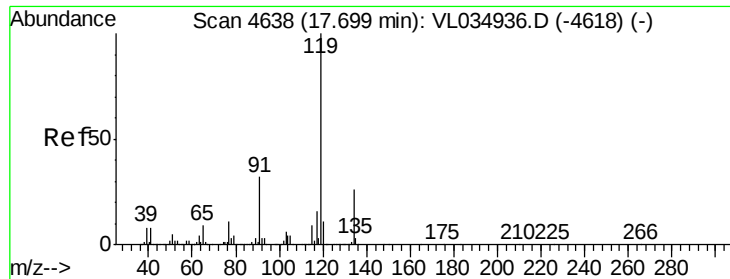
MMDadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.900 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion: 95 Resp: 2198413
 Ion Ratio Lower Upper
 95 100
 174 66.2 51.5 77.3
 175 5.0 3.8 5.8





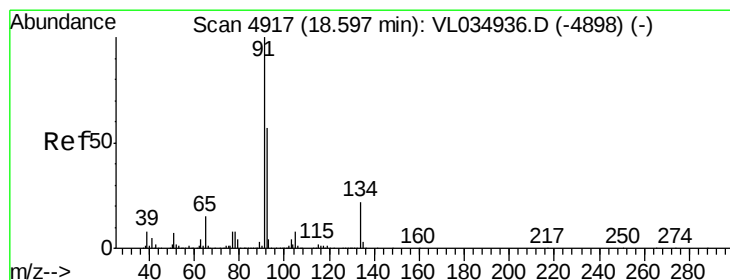
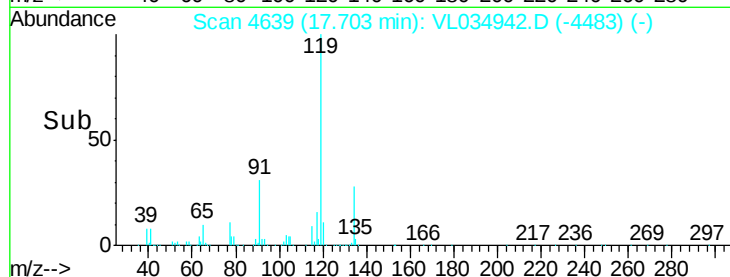
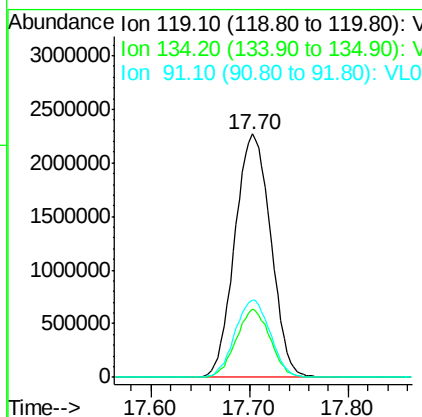
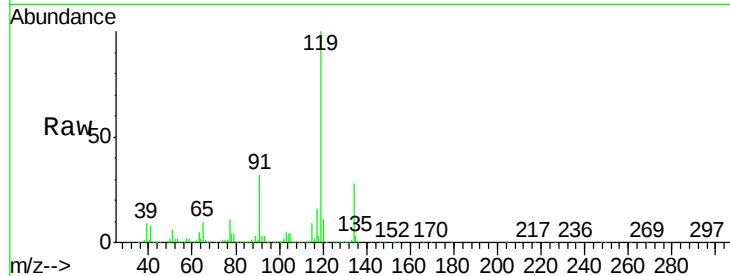
#69
p-Isopropyltoluene
Concen: 11.826 ppbv
RT: 17.70 min Scan# 4639
Delta R.T. 0.00 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.5	20.3	30.5
91	31.1	24.6	36.8

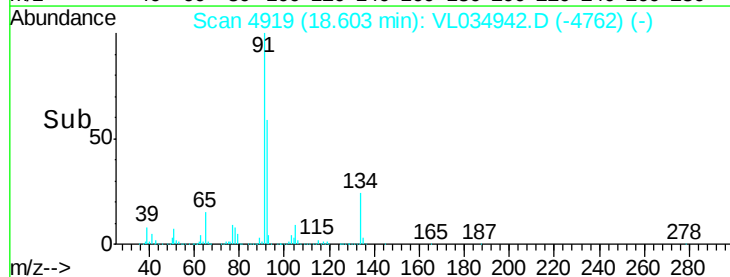
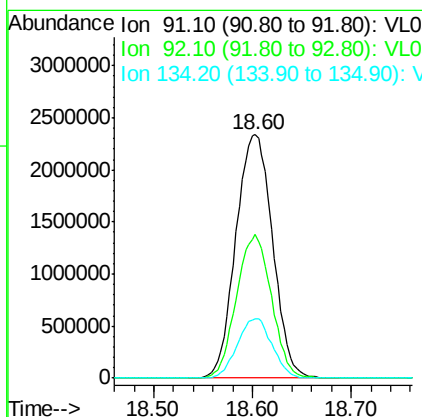
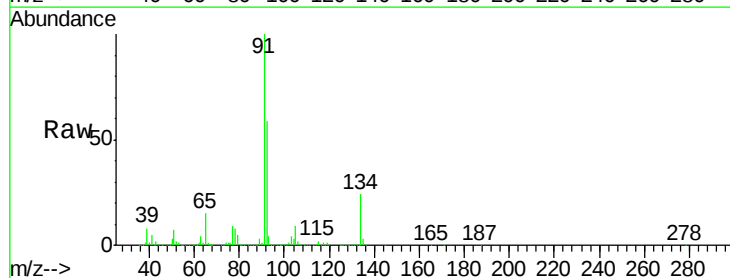
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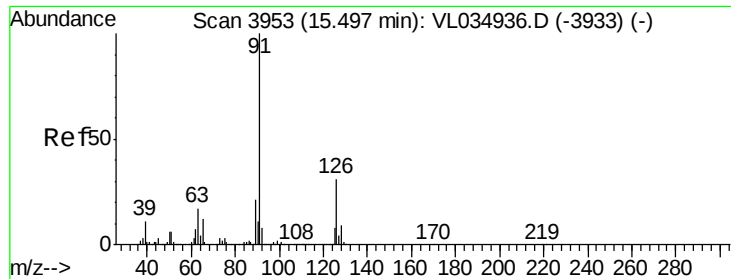
MMDadoda
5/7/2020 2:30:05 PM



#70
n-Butylbenzene
Concen: 12.146 ppbv
RT: 18.60 min Scan# 4919
Delta R.T. 0.01 min
Lab File: VL034942.D
Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.1	44.4	66.6
134	23.2	18.0	27.0





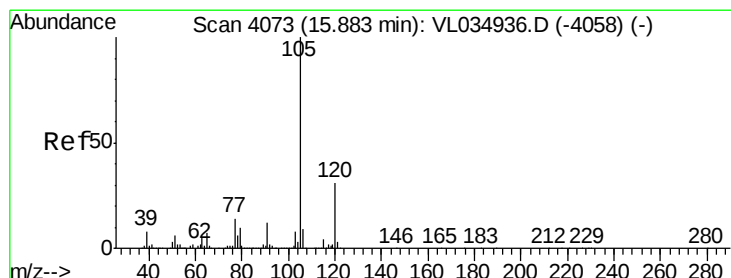
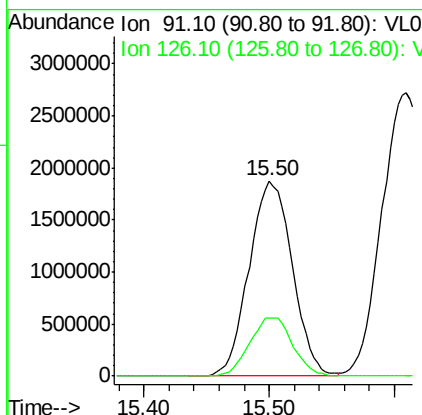
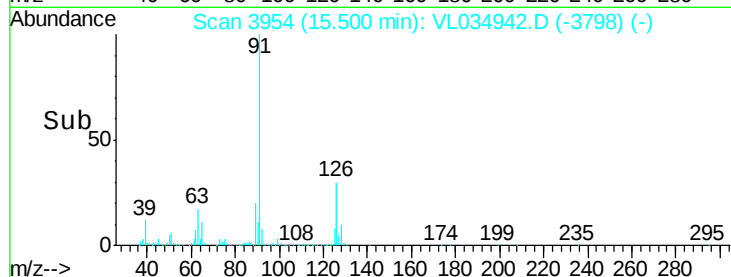
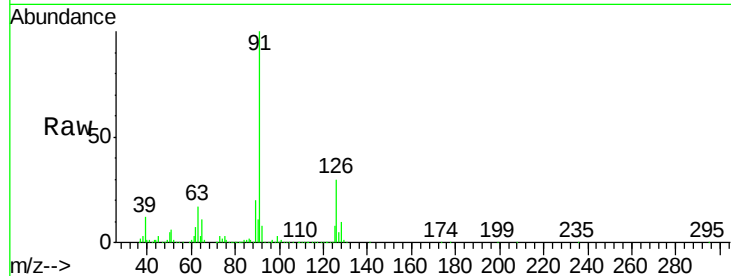
#71
 2-Chlorotoluene
 Concen: 12.461 ppbv
 RT: 15.50 min Scan# 3954
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 4500547
 Ion Ratio Lower Upper
 91 100
 126 30.0 12.0 47.8

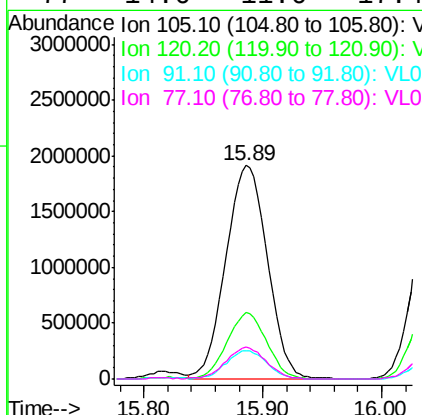
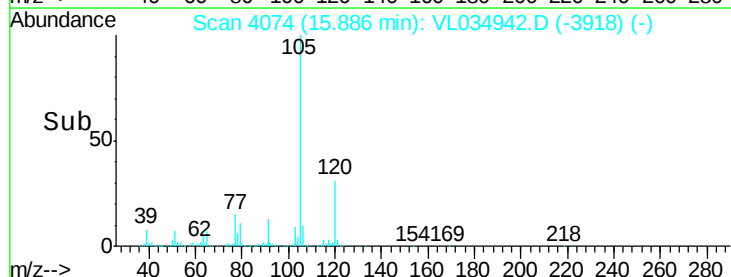
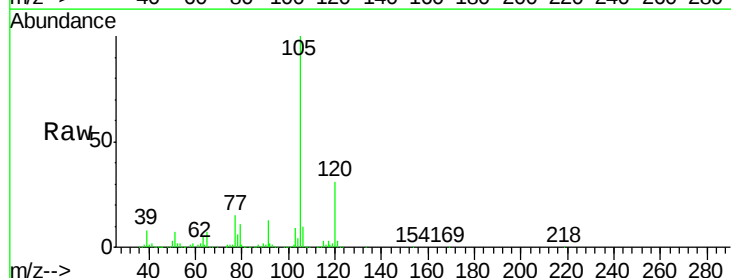
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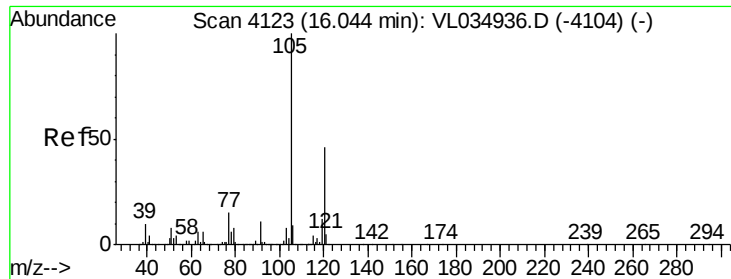
MMDadoda
 5/7/2020 2:30:05 PM



#72
 4-Ethyltoluene
 Concen: 12.402 ppbv
 RT: 15.89 min Scan# 4074
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion: 105 Resp: 4619646
 Ion Ratio Lower Upper
 105 100
 120 29.7 23.8 35.8
 91 13.7 10.6 15.8
 77 14.6 11.6 17.4





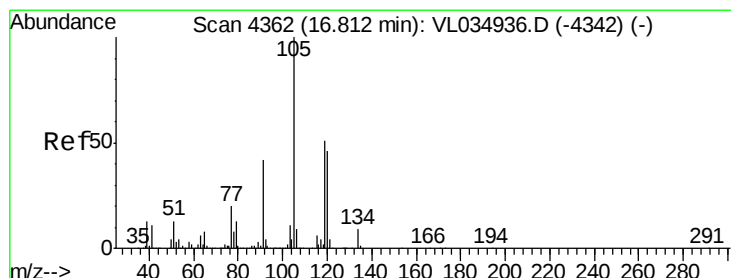
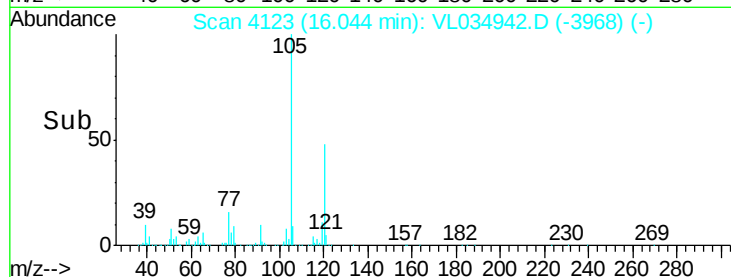
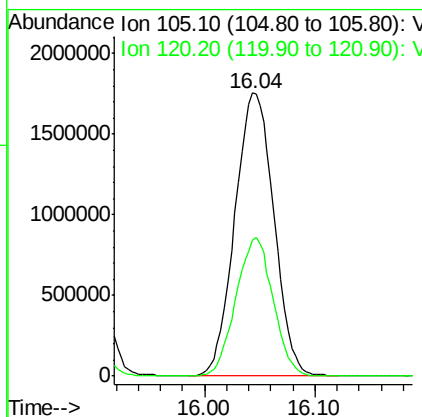
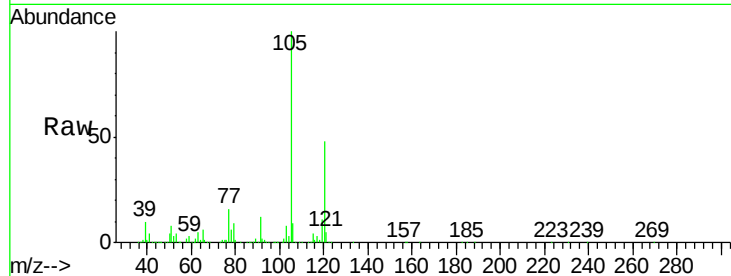
#73
 1,3,5-Trimethylbenzene
 Concen: 12.280 ppbv
 RT: 16.04 min Scan# 4123
 Delta R.T. -0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 4281845
 Ion Ratio Lower Upper
 105 100
 120 48.4 36.4 54.6

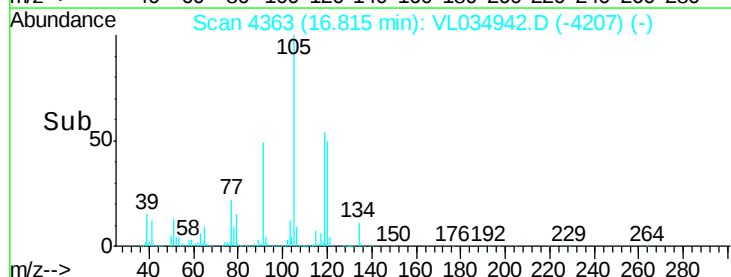
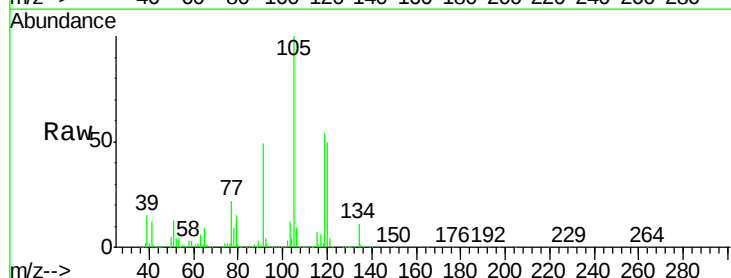
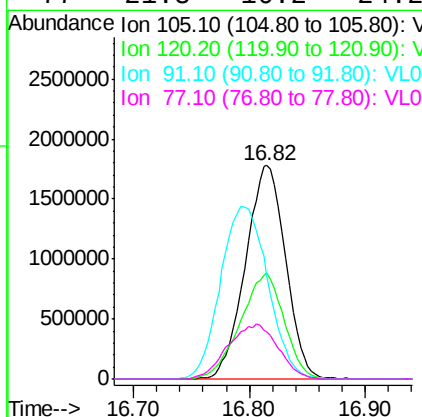
Manual Integrations
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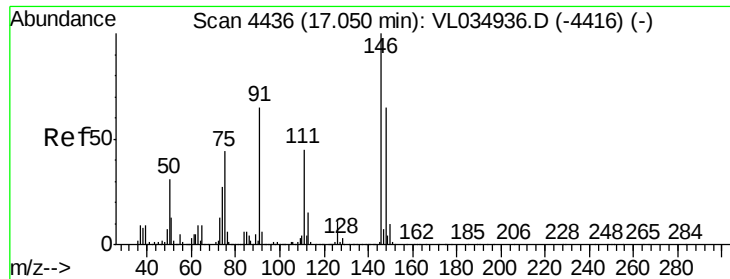
MMDadoda
 5/7/2020 2:30:05 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 11.901 ppbv
 RT: 16.82 min Scan# 4363
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Tgt Ion:105 Resp: 4275246
 Ion Ratio Lower Upper
 105 100
 120 49.4 36.8 55.2
 91 48.4 35.4 53.0
 77 21.8 16.2 24.2





#75

1,3-Dichlorobenzene

Concen: 11.618 ppbv

RT: 17.05 min Scan# 4436

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

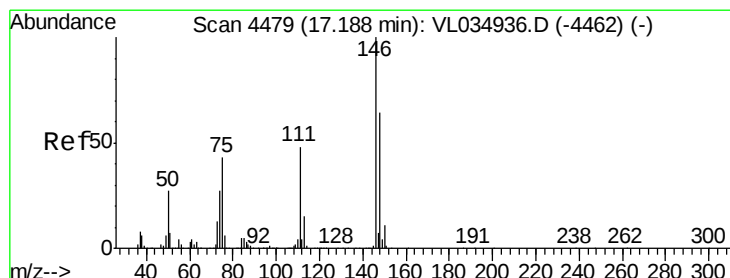
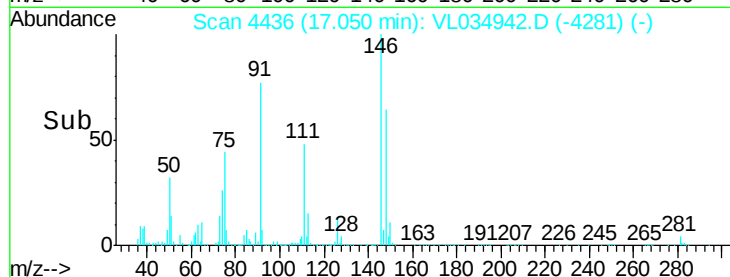
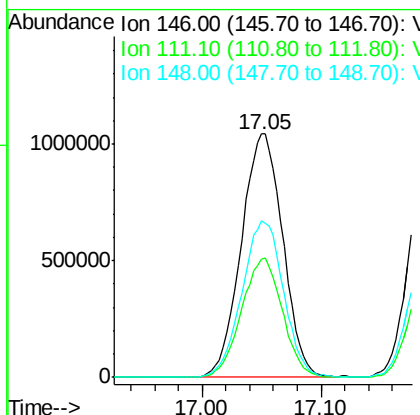
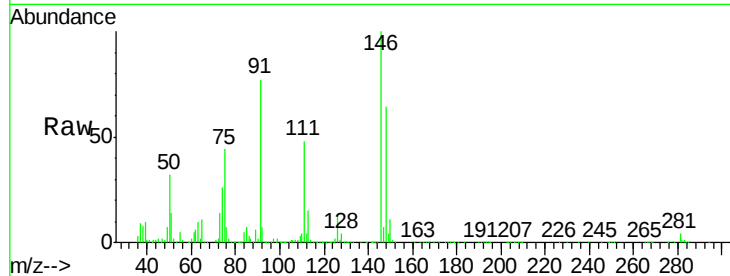
ClientSampleId :

VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.2	24.0	72.0
148	64.4	32.6	97.7

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 11.837 ppbv

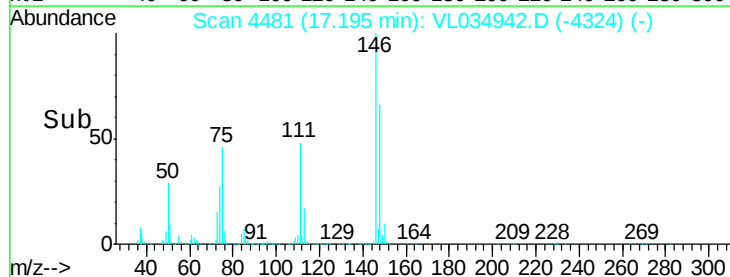
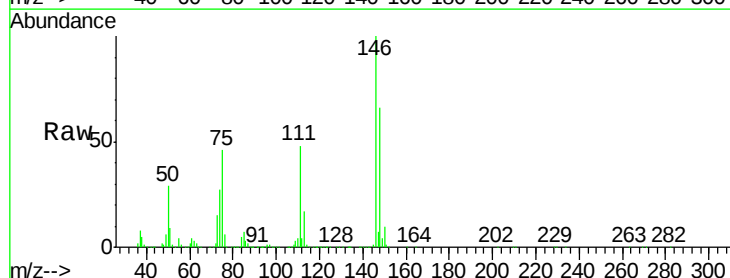
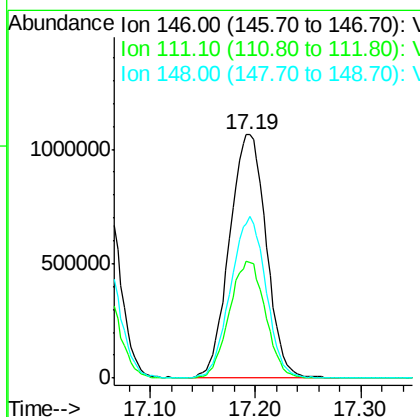
RT: 17.19 min Scan# 4481

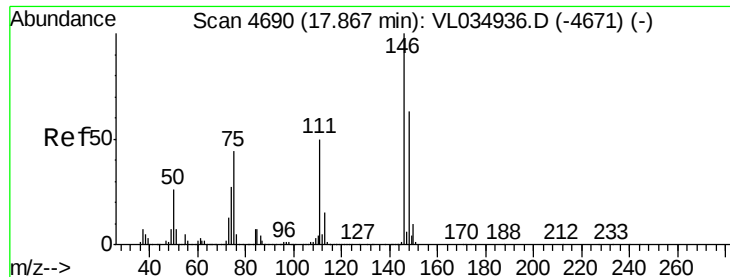
Delta R.T. 0.01 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.7	71.1
148	64.1	32.6	97.8





#77

1,2-Dichlorobenzene

Concen: 11.518 ppbv m

RT: 17.87 min Scan# 4691

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion:146 Resp: 2418386

Ion Ratio Lower Upper

146 100

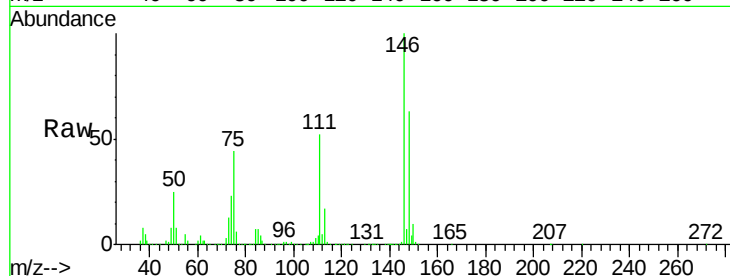
111 0.0 24.5 73.5#

148 64.7 31.7 95.1

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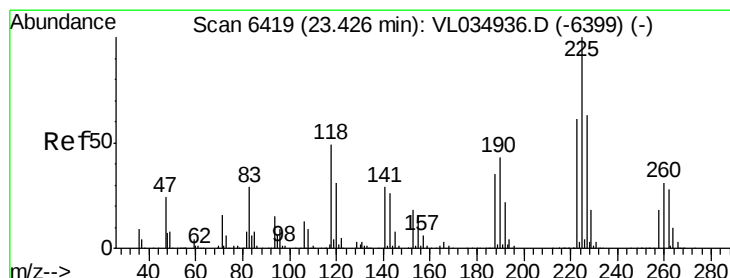
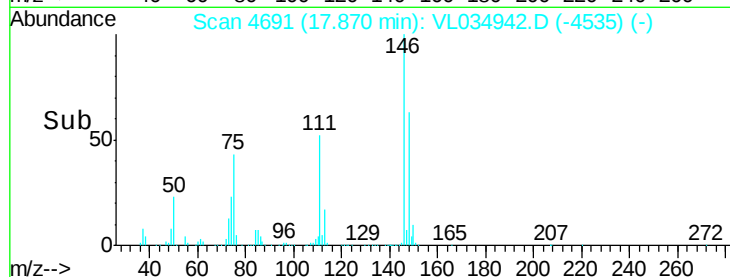
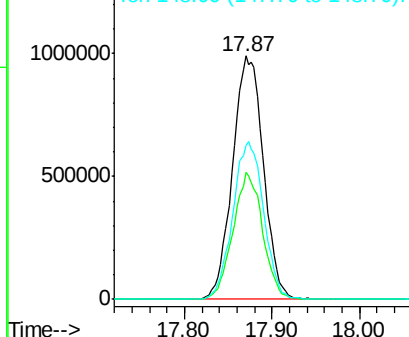
5/7/2020 2:30:05 PM



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: 10.873 ppbv

RT: 23.43 min Scan# 6420

Delta R.T. 0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

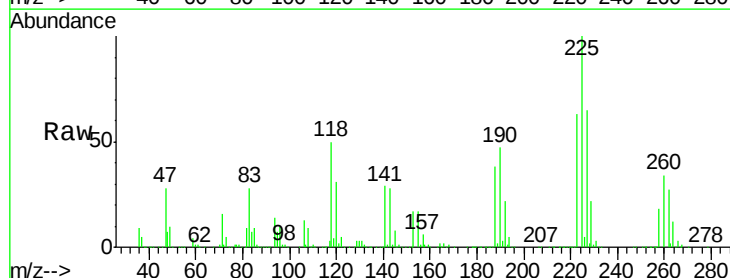
Tgt Ion:225 Resp: 1906902

Ion Ratio Lower Upper

225 100

223 63.9 49.8 74.8

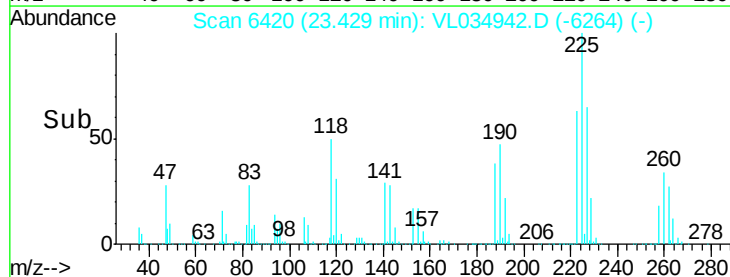
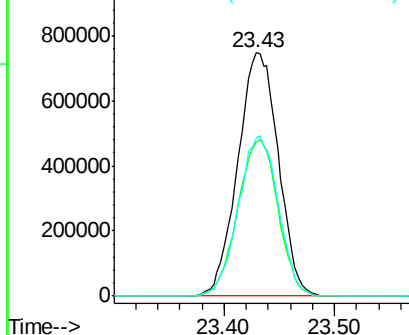
227 64.9 51.8 77.6

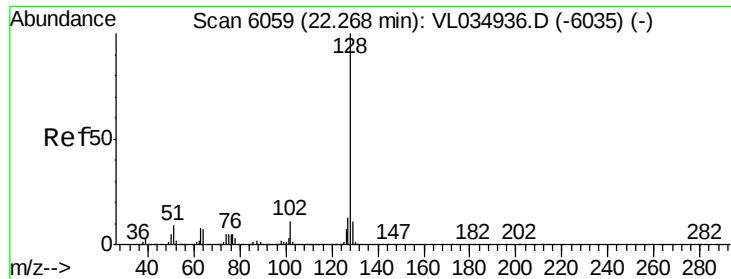


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 16.401 ppbv

RT: 22.27 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 4594821

Ion Ratio Lower Upper

128 100

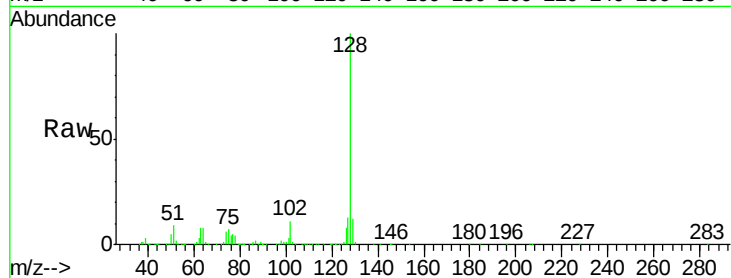
127 13.5 10.5 15.7

129 11.7 9.0 13.4

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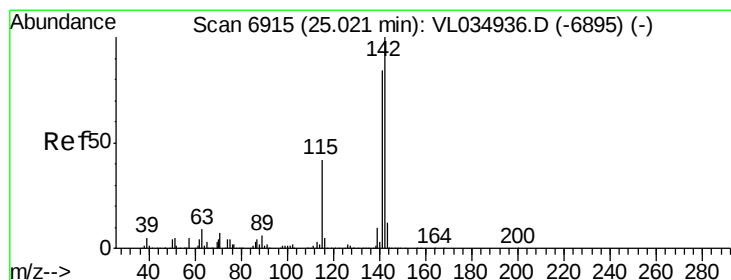
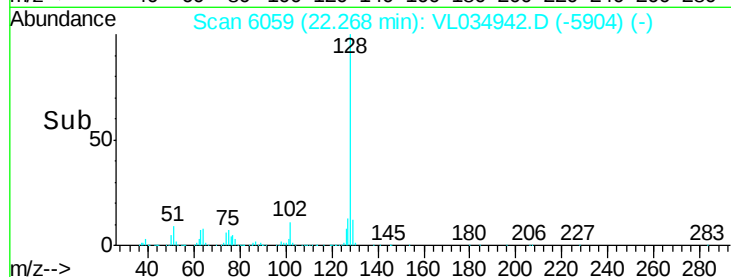
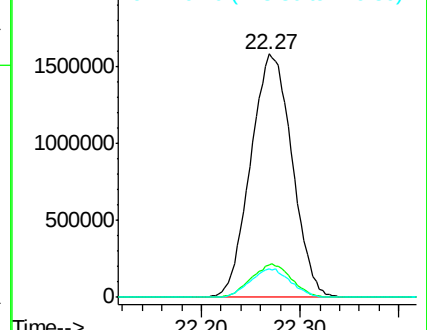
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 29.585 ppbv

RT: 25.02 min Scan# 6914

Delta R.T. -0.00 min

Lab File: VL034942.D

Acq: 6 May 2020 14:02

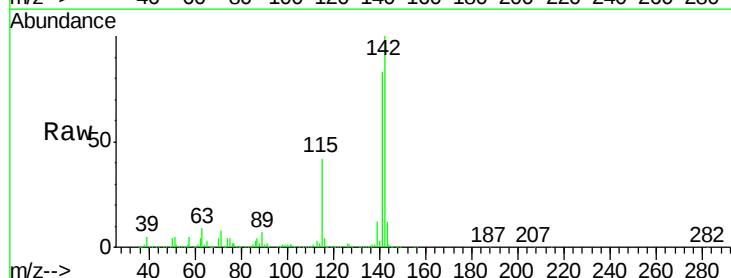
Tgt Ion:142 Resp: 2166014

Ion Ratio Lower Upper

142 100

141 84.1 68.6 102.8

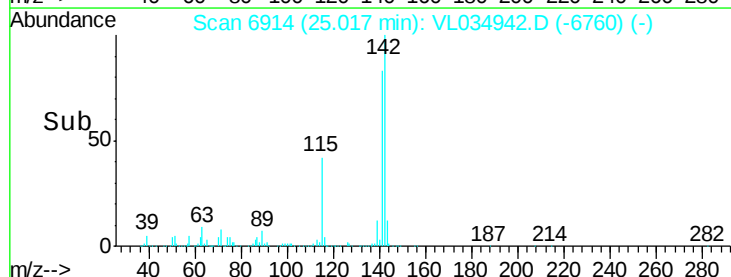
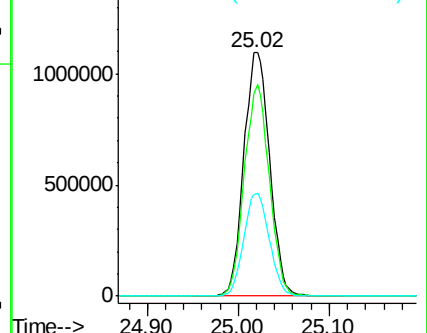
115 41.9 33.9 50.9

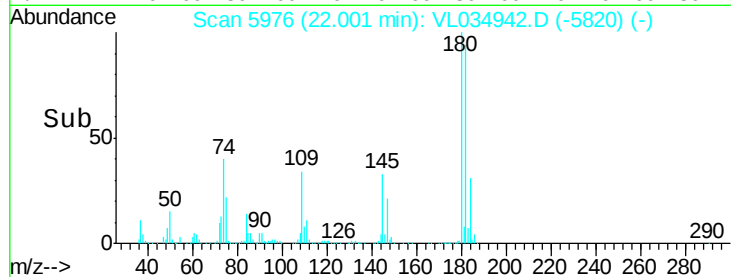
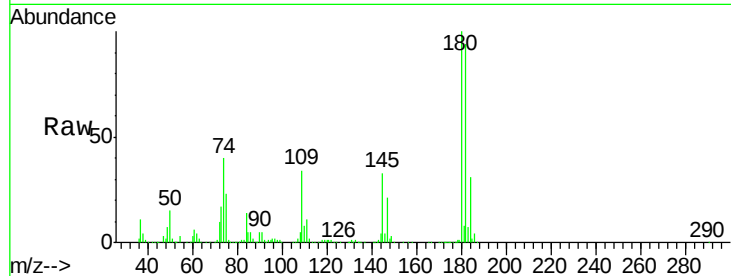
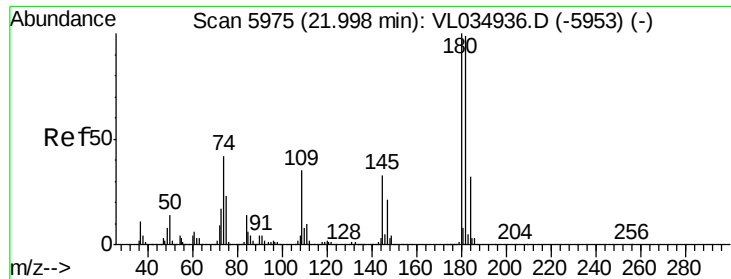


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 13.296 ppbv
 RT: 22.00 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL034942.D
 Acq: 6 May 2020 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.5	116.3
184	31.3	24.8	37.2

Manual Integrations
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