

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL013020\
 Data File : VL034574.D
 Acq On : 30 Jan 2020 15:57
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 1/31/2020 4:25:25 PM

Quant Time: Jan 30 17:14:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:14:31 2020
 QLast Update : Thu Jan 30 14:46:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1182027	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2358987	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2642384	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2155139	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	3015161	16.175	ppbv	96
3) Chlorodifluoromethane	2.95	51	1812679	12.871	ppbv	97
4) Chloromethane	3.10	50	1127026	13.472	ppbv	100
5) Vinyl Chloride	3.22	62	1065400	13.005	ppbv	98
6) Bromomethane	3.44	94	566955	13.904	ppbv	100
7) Chloroethane	3.52	64	416844	14.602	ppbv	100
8) Dichlorotetrafluoroethane	3.15	85	2451697	13.113	ppbv	99
9) Propene	2.97	41	746678	13.752	ppbv	99
10) Heptane	8.14	43	2078675	14.824	ppbv	100
11) Trichlorofluoromethane	3.92	101	2874158	13.324	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1953867	14.240	ppbv	99
13) Ethanol	3.57	45	129498	8.596	ppbv	97
14) Bromoethene	3.71	108	812829	14.647	ppbv	99
15) Acetone	3.82	43	2042804	11.842	ppbv	98
16) 1,3-Butadiene	3.29	39	985899	14.860	ppbv	99
17) tert-Butyl alcohol	4.27	59	1327507	9.611	ppbv	99
18) 1,1-Dichloroethene	4.27	96	872626	14.600	ppbv	95
19) Isopropyl Alcohol	3.94	45	1033028	9.251	ppbv	99
20) Methylene Chloride	4.32	84	781682	11.516	ppbv	98
21) Allyl Chloride	4.39	41	1468008	14.806	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	899358	14.794	ppbv	98
23) Vinyl Acetate	5.06	43	2793548	14.027	ppbv	99
24) 1,1-Dichloroethane	5.00	63	2150176	13.439	ppbv	99
25) Ethyl Acetate	5.67	43	3690795	13.700	ppbv	99
26) Hexane	5.68	57	1616771	14.243	ppbv	97
27) Carbon Disulfide	4.53	76	2320921	16.175	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	2747888	14.494	ppbv	99
29) Chloroform	5.75	83	2674437	13.616	ppbv	98
30) Cyclohexane	7.13	84	1272053	15.076	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1741875	15.058	ppbv	100
32) 1,1,1-Trichloroethane	6.52	97	2803400	13.750	ppbv	99
34) 2-Butanone	5.23	43	2368773	14.052	ppbv	98
35) Carbon Tetrachloride	7.03	117	2986212	13.959	ppbv	97
36) Benzene	6.90	78	2998863	14.584	ppbv	98
37) 1,2-Dichloroethane	6.31	62	2377257	14.236	ppbv	100
38) Trichloroethene	7.85	130	1297582	15.621	ppbv	98
39) 1,2-Dichloropropane	7.63	63	1220993	14.440	ppbv	98
40) 1,4-Dioxane	7.84	88	397717	11.622	ppbv #	90
41) Tetrahydrofuran	6.04	42	1334914	15.437	ppbv	98
42) Bromodichloromethane	7.81	83	2981721	14.511	ppbv	95
43) Methyl Methacrylate	8.03	69	1323306	15.776	ppbv	99

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	5243583	13.785	ppbv	97
45) t-1,3-Dichloropropene	9.30	75	1893291	17.522	ppbv	94
46) cis-1,3-Dichloropropene	8.72	75	2068475	16.747	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	1350879	14.493	ppbv	98
48) Dibromochloromethane	10.33	129	2580963	15.973	ppbv	100
49) Bromoform	13.08	173	2357213	16.114	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3553286	14.520	ppbv	97
51) 2-Hexanone	10.15	43	3022065	15.299	ppbv	99
52) Tetrachloroethene	11.25	164	1206812	15.038	ppbv	95
53) Toluene	9.83	91	3516540	15.565	ppbv	98
54) 1,2-Dibromoethane	10.64	107	2047443	15.095	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1709652	13.403	ppbv	96
57) Chlorobenzene	12.18	112	2825091	12.959	ppbv #	96
58) Ethyl Benzene	12.74	91	4841034	13.585	ppbv	97
59) m/p-Xylene	13.03	91	8093766m	25.973	ppbv	
60) o-Xylene	13.73	91	4168438	13.331	ppbv	98
61) Styrene	13.56	104	3113286	14.562	ppbv	100
62) Isopropylbenzene	14.70	105	5310581	12.983	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	2929933	11.680	ppbv	99
64) n-propylbenzene	15.60	120	1464993	14.026	ppbv	87
65) tert-Butylbenzene	16.79	119	4811330	13.020	ppbv	99
66) Benzyl Chloride	17.03	91	2498973	15.430	ppbv	99
67) sec-Butylbenzene	17.34	105	6389028	12.311	ppbv	98
69) p-Isopropyltoluene	17.70	119	5348385	12.707	ppbv	97
70) n-Butylbenzene	18.60	91	5618250	12.371	ppbv	98
71) 2-Chlorotoluene	15.49	91	4173804	13.140	ppbv	97
72) 4-Ethyltoluene	15.88	105	4705254	13.447	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	4495109	13.094	ppbv	91
74) 1,2,4-Trimethylbenzene	16.81	105	4667506	12.710	ppbv	97
75) 1,3-Dichlorobenzene	17.04	146	2698035	12.266	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	2669599	12.606	ppbv	98
77) 1,2-Dichlorobenzene	17.87	146	2572704	12.446	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	2385012	12.155	ppbv	100
79) Naphthalene	22.27	128	4128962	14.927	ppbv	97
80) Naphthalene, 2-methyl-	25.02	142	2103684	27.455	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.99	180	2496508	13.862	ppbv	100

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

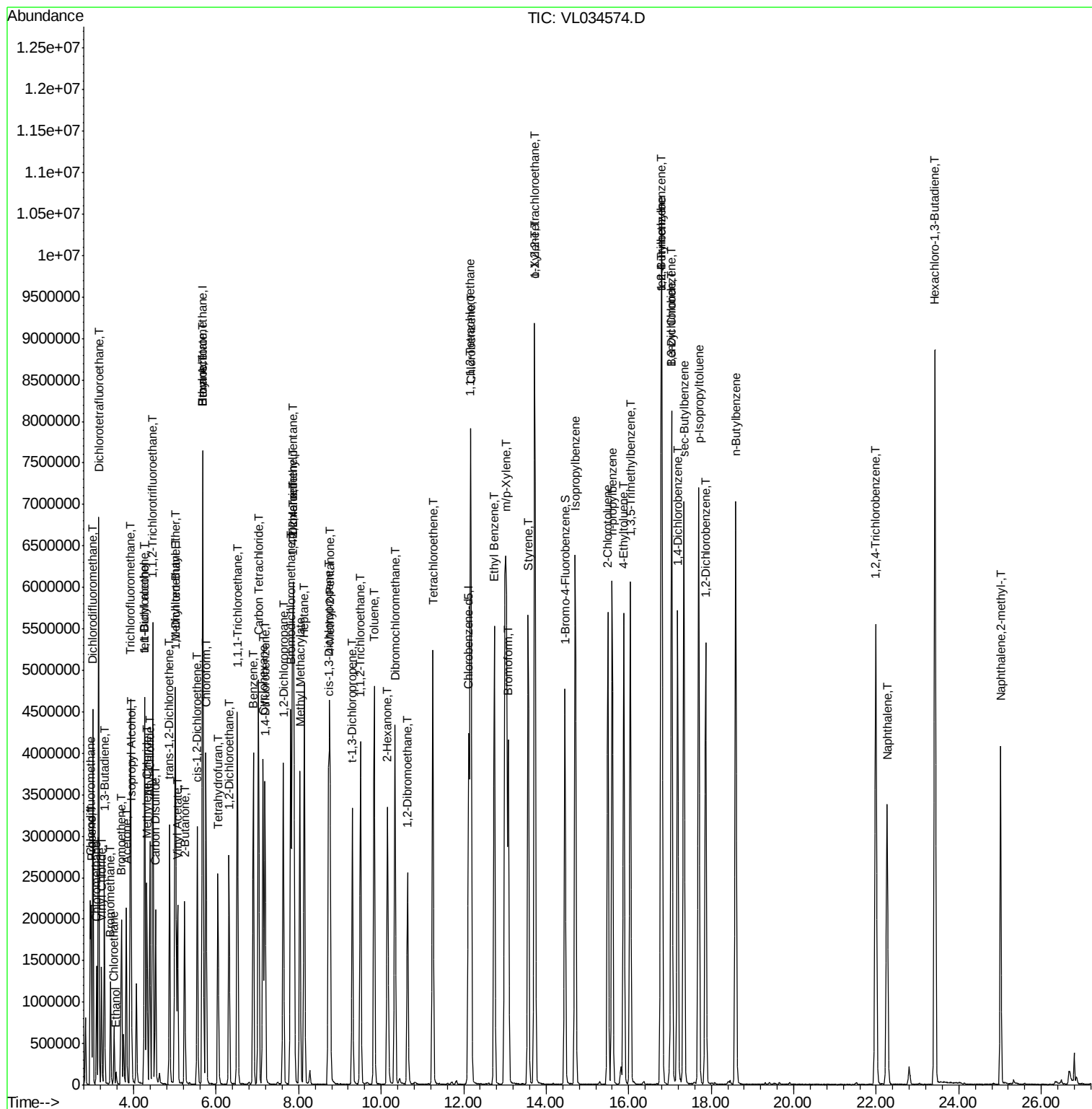
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL013020\
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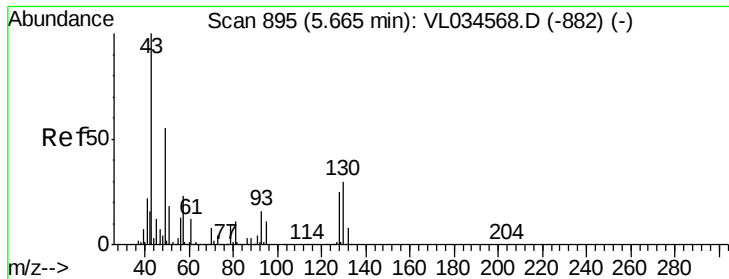
Instrument :
MSVOA_L
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 14:46:59 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1182027

Ion Ratio Lower Upper

49 100

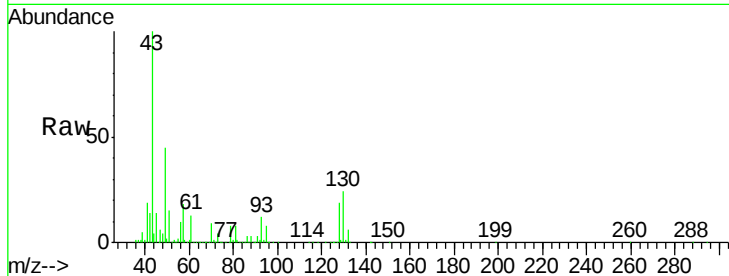
128 44.1 22.4 67.2

130 56.5 28.3 85.0

Manual Integrations
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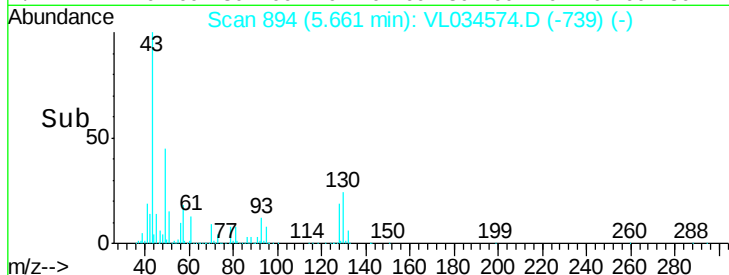
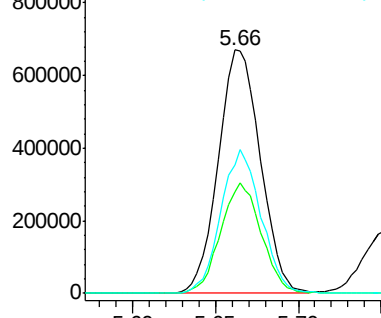
1/31/2020 4:25:25 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 16.175 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL034574.D

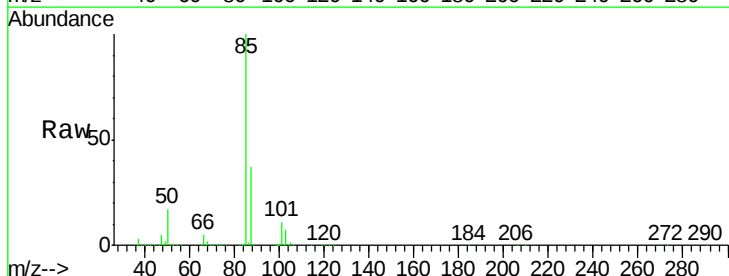
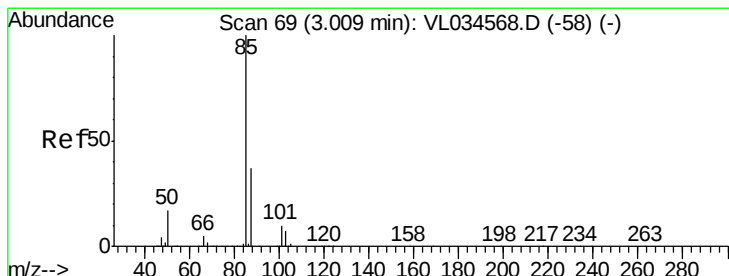
Acq: 30 Jan 2020 15:57

Tgt Ion: 85 Resp: 3015161

Ion Ratio Lower Upper

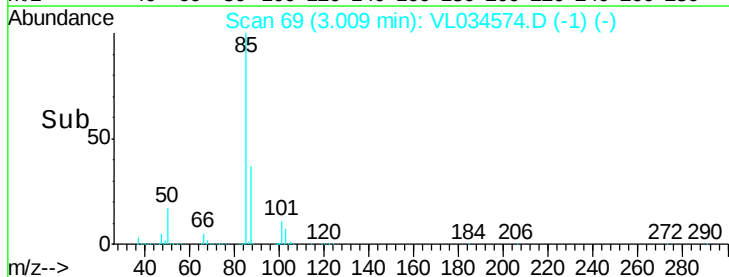
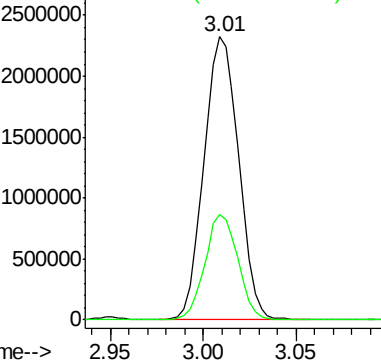
85 100

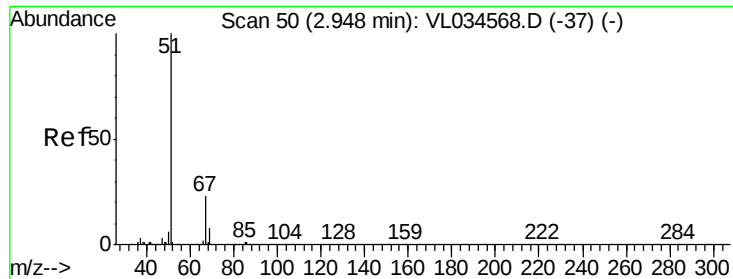
87 37.4 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.871 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1812679

Ion Ratio Lower Upper

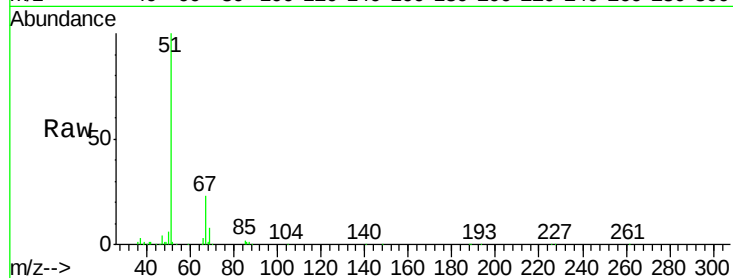
51 100

67 22.6 16.8 25.2

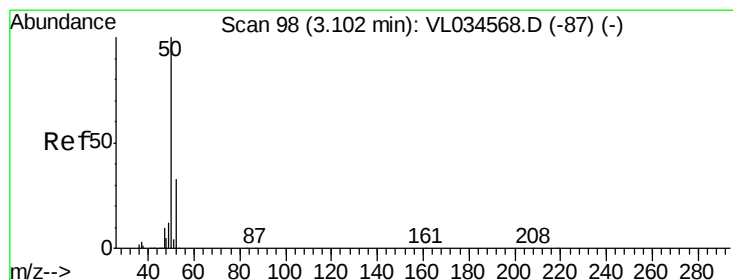
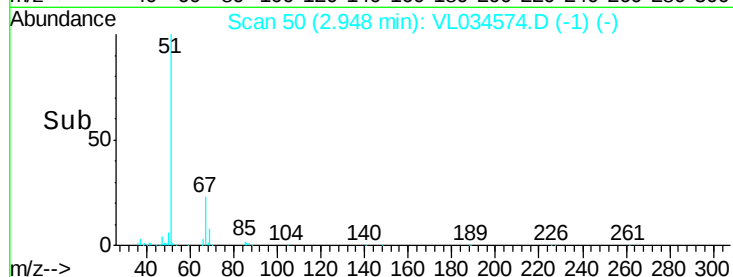
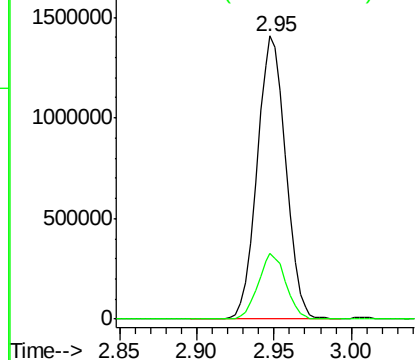
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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.472 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034574.D

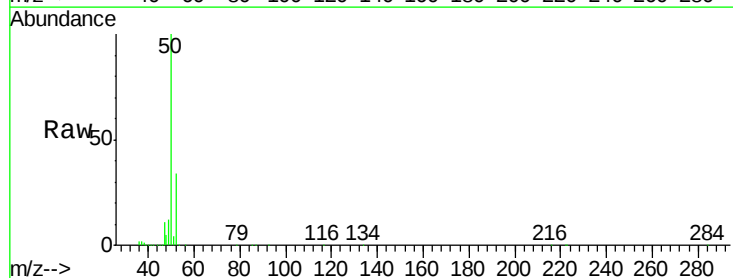
Acq: 30 Jan 2020 15:57

Tgt Ion: 50 Resp: 1127026

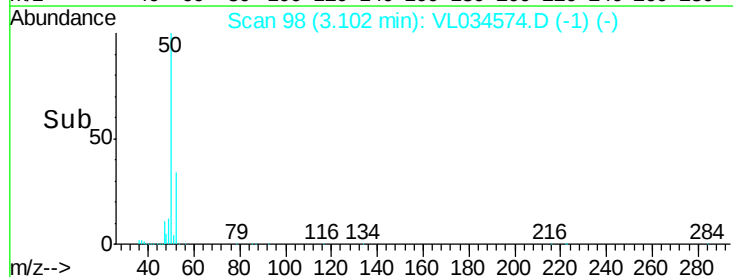
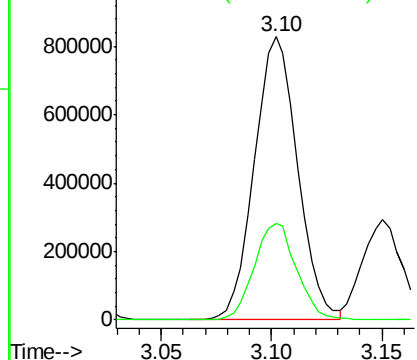
Ion Ratio Lower Upper

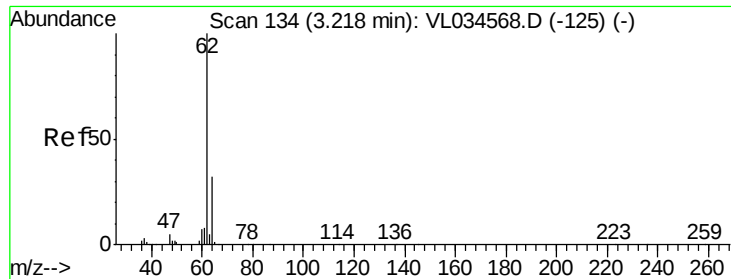
50 100

52 34.3 27.6 41.4



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





#5

Vinyl Chloride

Concen: 13.005 ppbv

RT: 3.22 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1065400

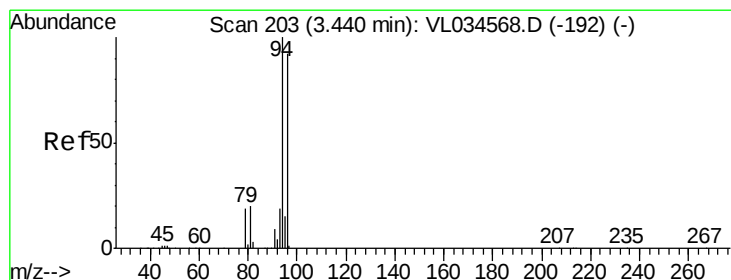
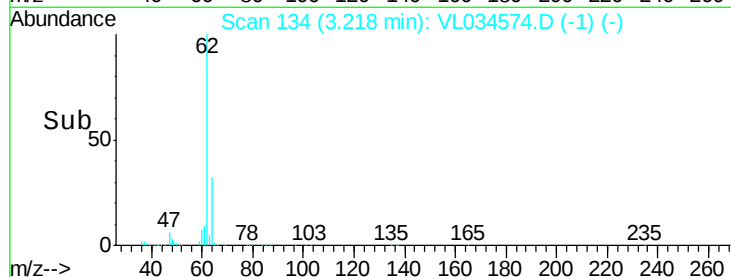
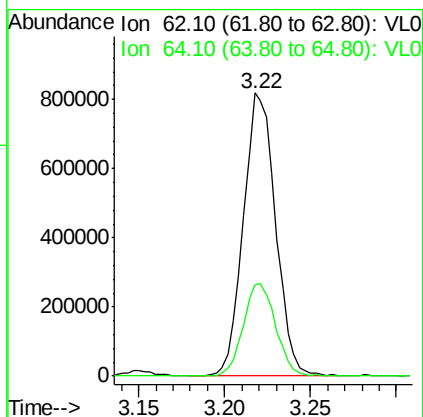
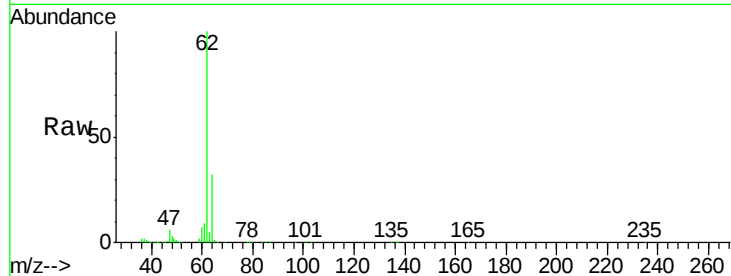
Ion Ratio Lower Upper

62 100

64 32.1 24.9 37.3

Manual Integrations
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#6

Bromomethane

Concen: 13.904 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL034574.D

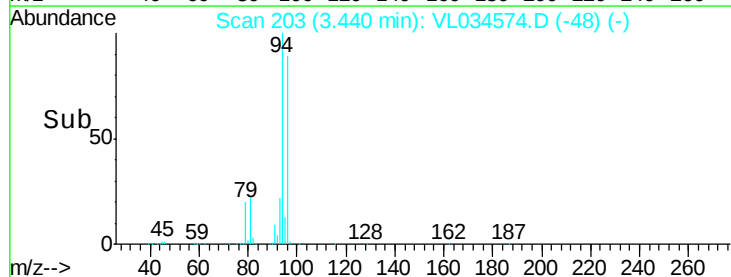
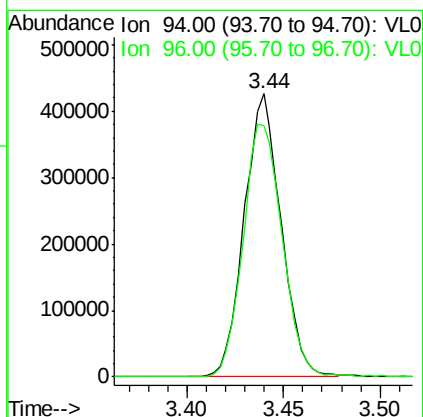
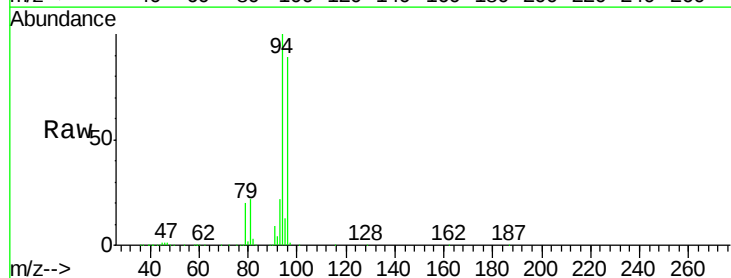
Acq: 30 Jan 2020 15:57

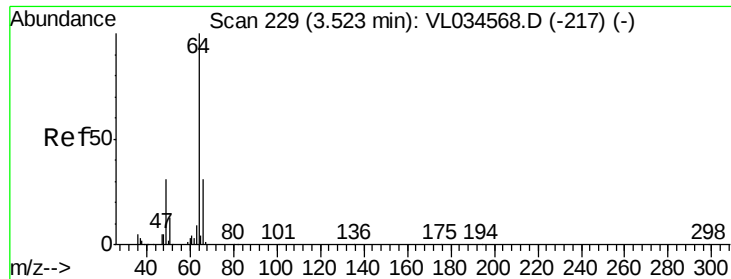
Tgt Ion: 94 Resp: 566955

Ion Ratio Lower Upper

94 100

96 89.0 71.2 106.8





#7

Chloroethane

Concen: 14.602 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 416844

Ion Ratio Lower Upper

64 100

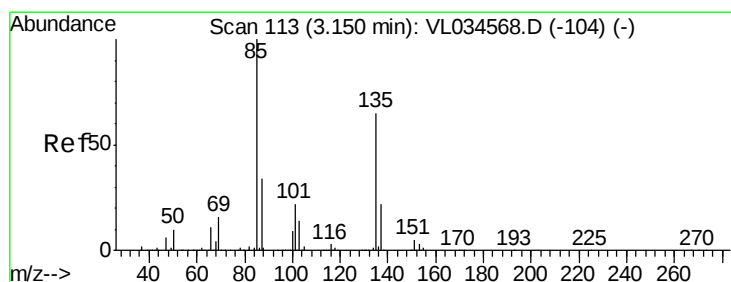
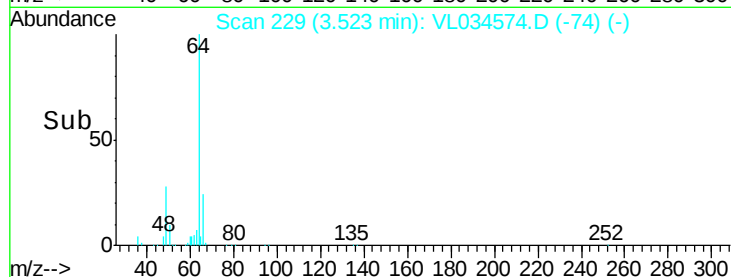
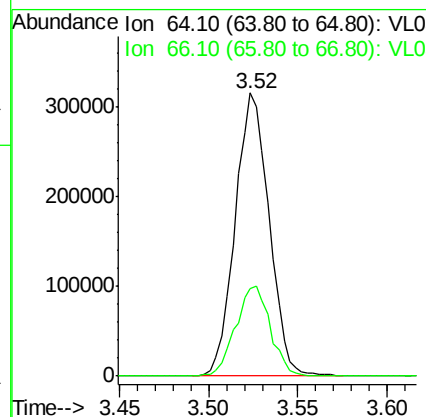
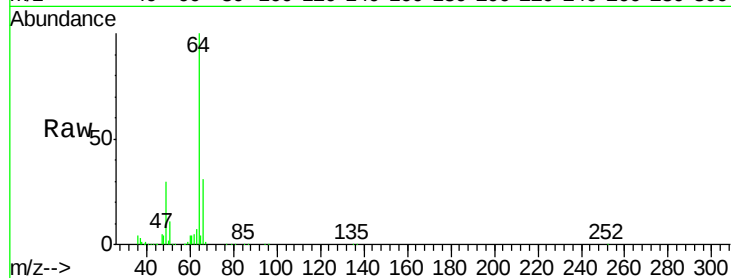
66 31.1 25.0 37.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 13.113 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034574.D

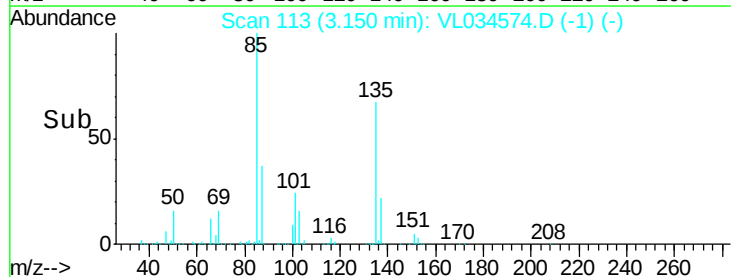
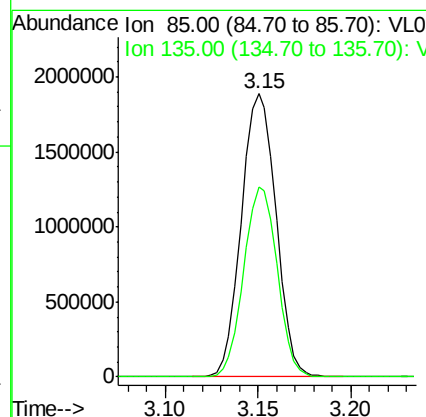
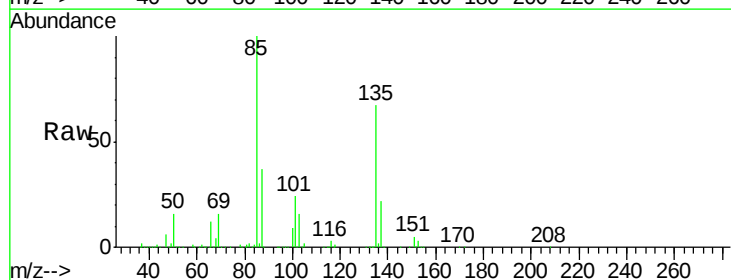
Acq: 30 Jan 2020 15:57

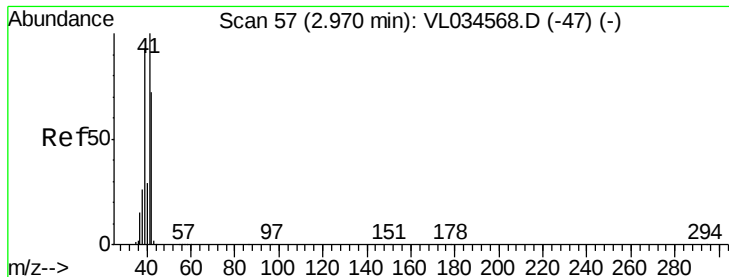
Tgt Ion: 85 Resp: 2451697

Ion Ratio Lower Upper

85 100

135 65.3 51.8 77.8





#9

Propene

Concen: 13.752 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 746678

Ion Ratio Lower Upper

41 100

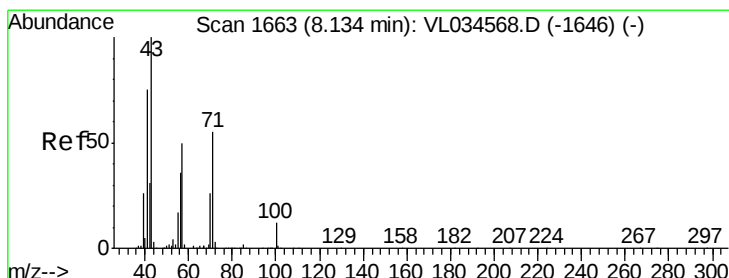
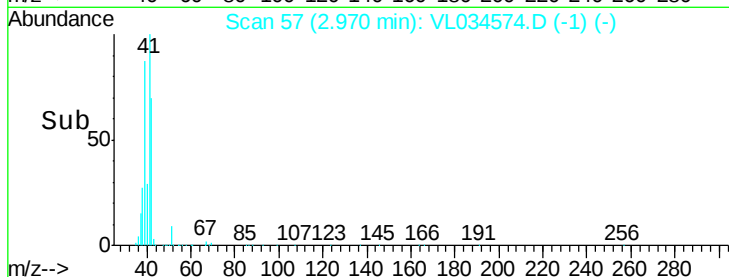
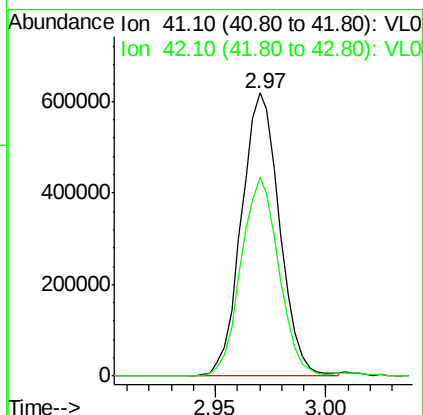
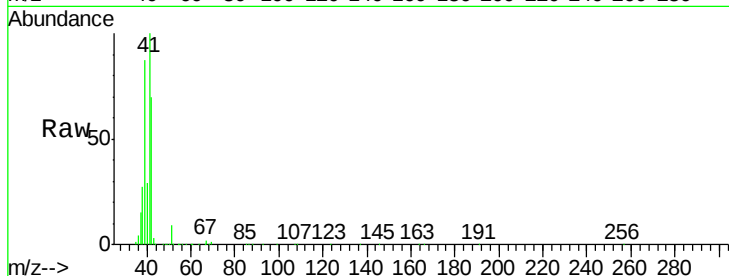
42 70.5 55.8 83.6

Manual Integrations

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#10

Heptane

Concen: 14.824 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL034574.D

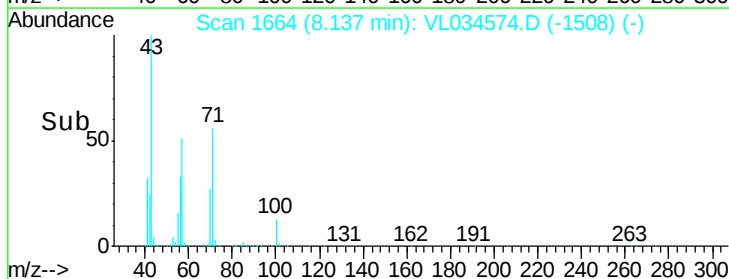
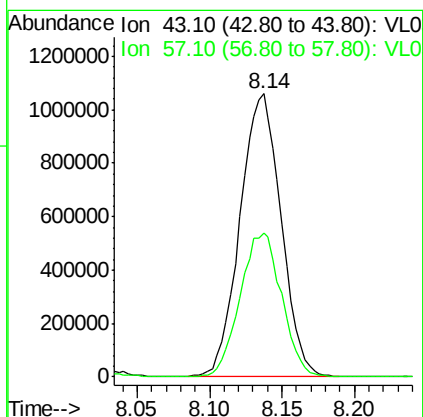
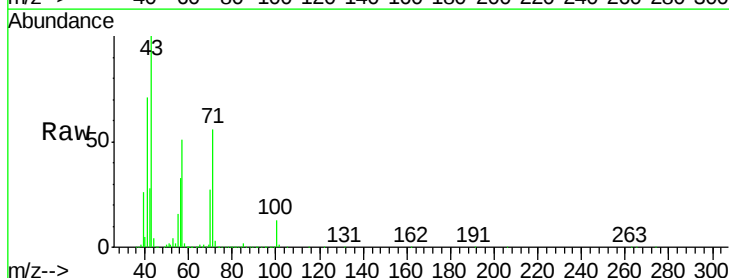
Acq: 30 Jan 2020 15:57

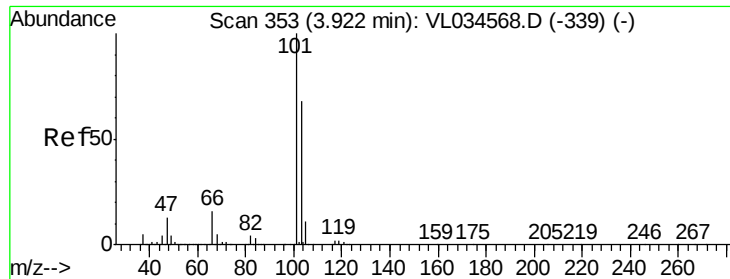
Tgt Ion: 43 Resp: 2078675

Ion Ratio Lower Upper

43 100

57 51.6 41.0 61.6





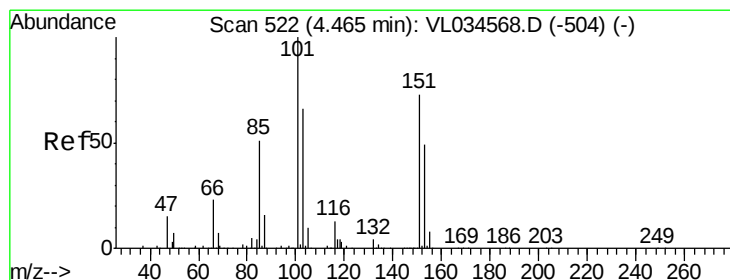
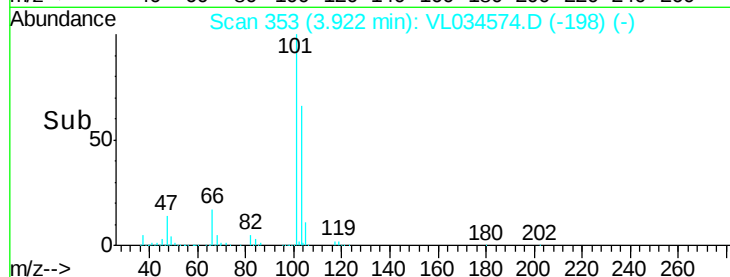
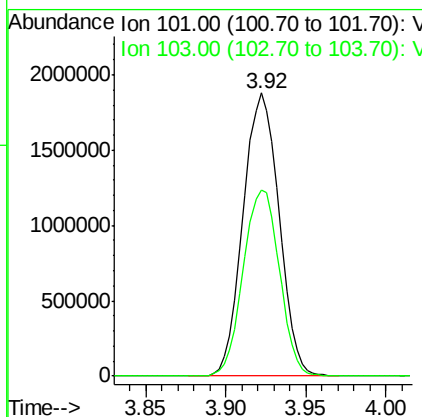
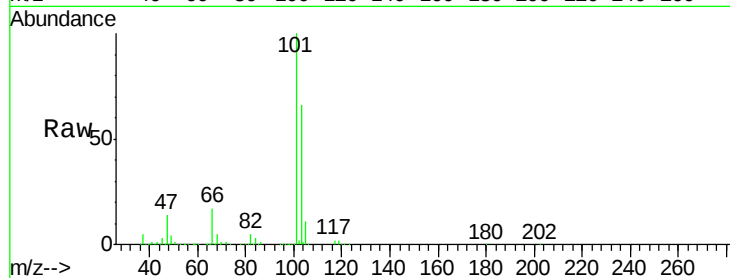
#11
 Trichlorofluoromethane
 Concen: 13.324 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2874158
 Ion Ratio Lower Upper
 101 100
 103 65.9 52.1 78.1

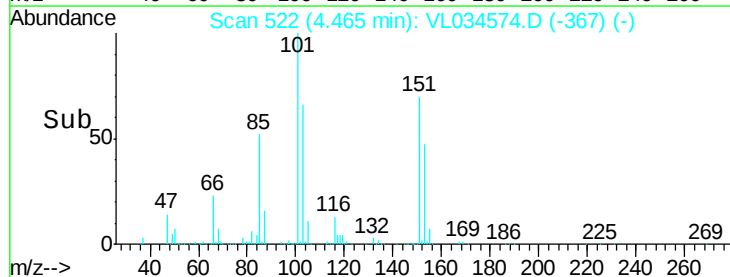
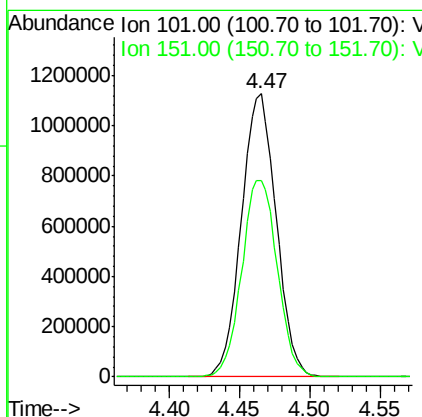
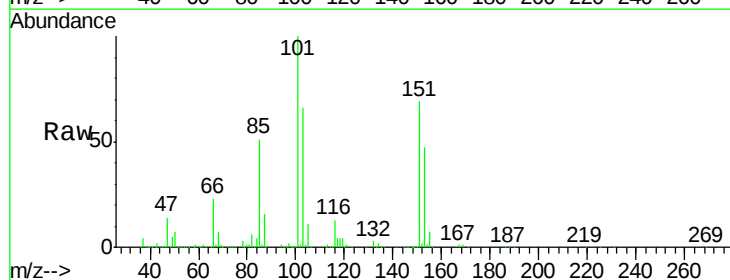
Manual Integrations
 APPROVED

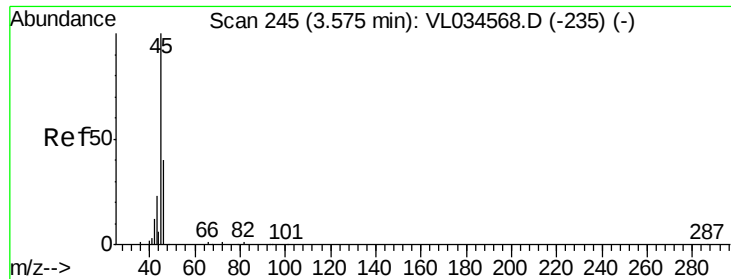
MMDadoda
 1/31/2020 4:25:25 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.240 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion:101 Resp: 1953867
 Ion Ratio Lower Upper
 101 100
 151 71.0 57.8 86.6





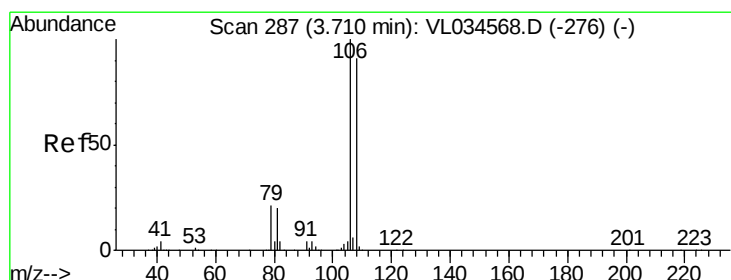
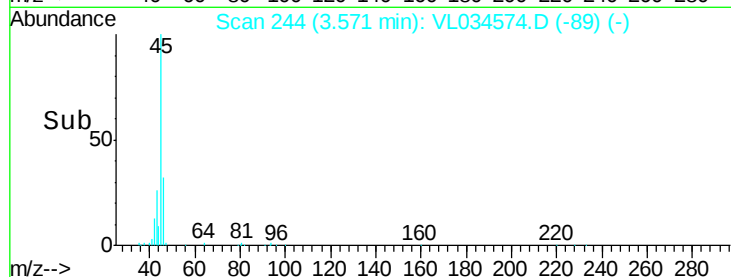
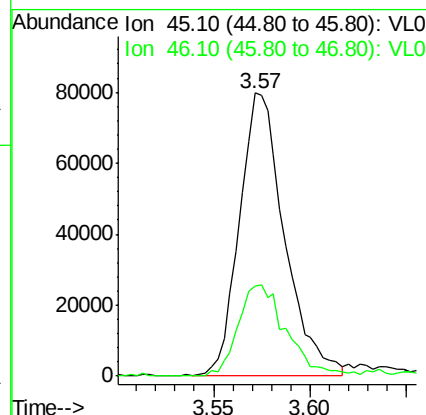
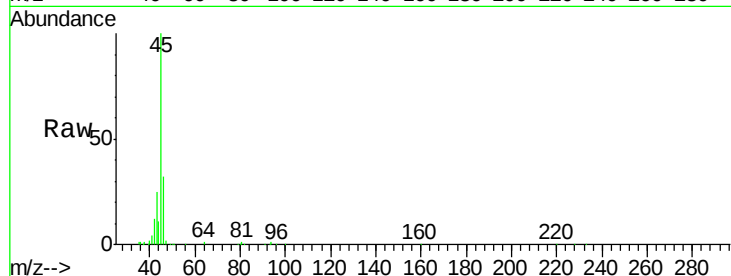
#13
Ethanol
Concen: 8.596 ppbv
RT: 3.57 min Scan# 244
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	Resp	129498
Ion Ratio	100	Lower	Upper
46	35.3	14.9	59.7

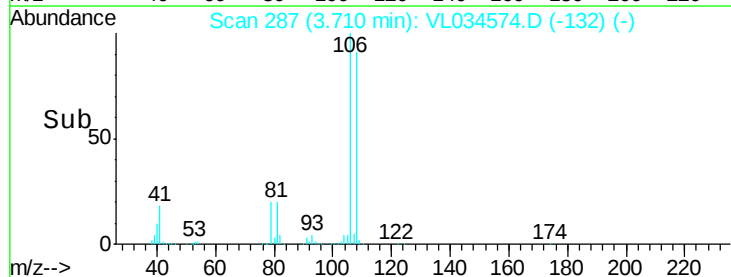
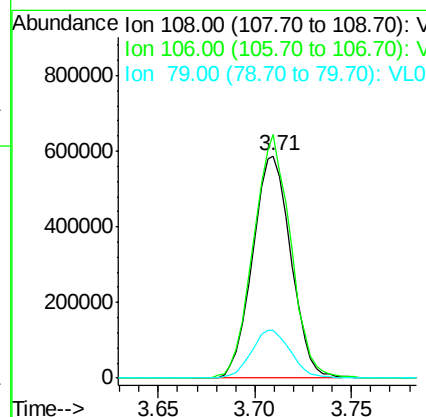
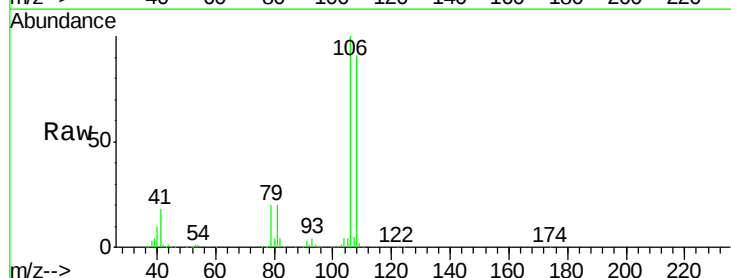
Manual Integrations
APPROVED

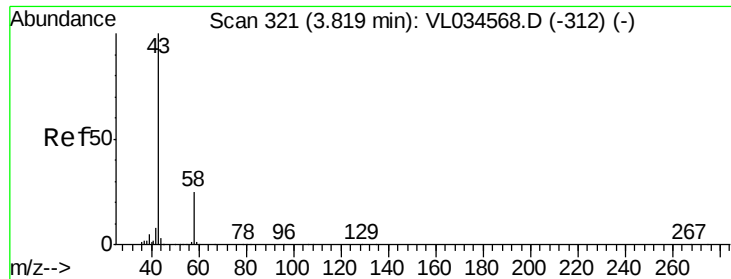
MMDadoda
1/31/2020 4:25:25 PM



#14
Bromoethene
Concen: 14.647 ppbv
RT: 3.71 min Scan# 287
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion	108	Resp	812829
Ion Ratio	100	Lower	Upper
106	107.1	85.2	127.8
79	22.3	17.4	26.2





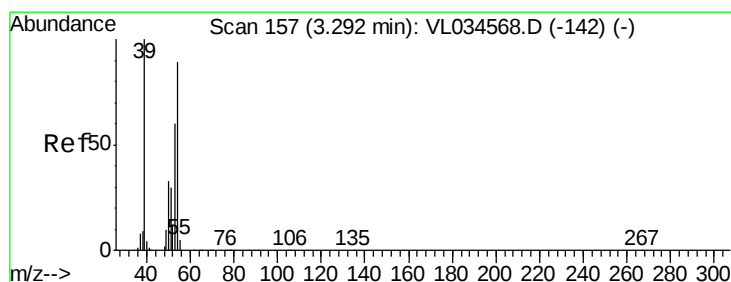
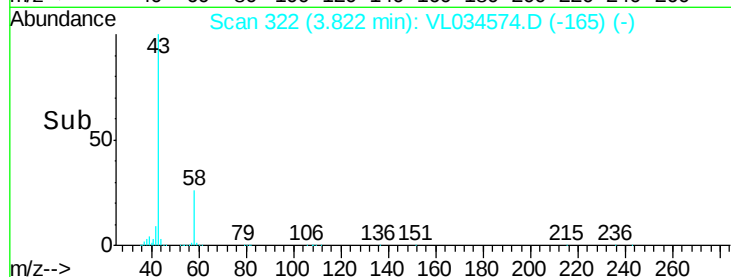
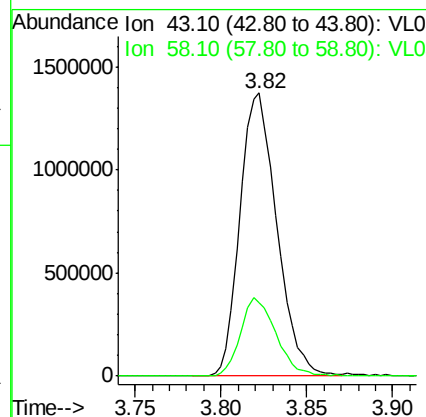
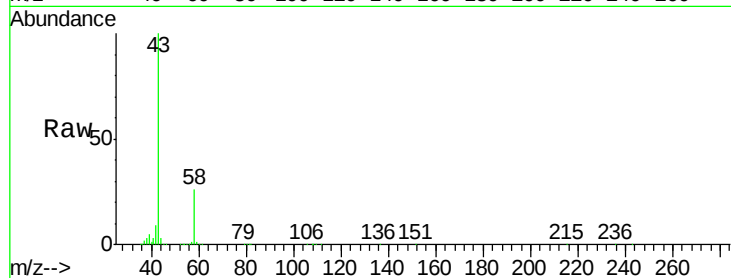
#15
Acetone
Concen: 11.842 ppbv
RT: 3.82 min Scan# 322
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2042804
Ion Ratio Lower Upper
43 100
58 26.7 20.4 30.6

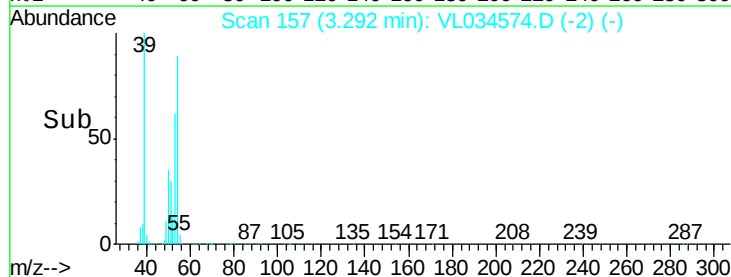
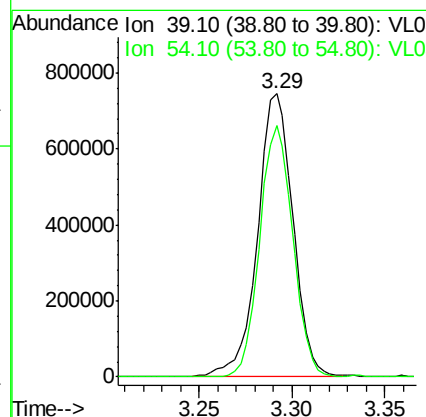
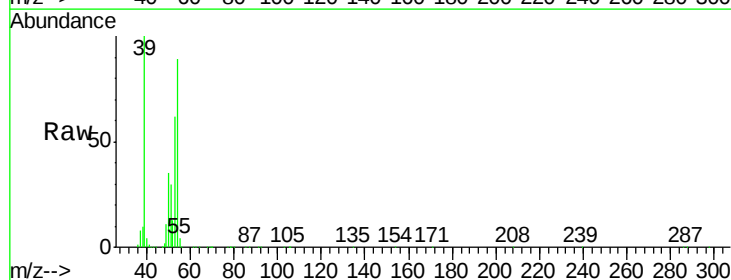
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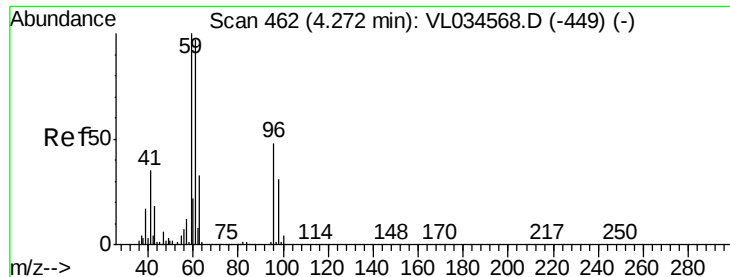
MMDadoda
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#16
1,3-Butadiene
Concen: 14.860 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion: 39 Resp: 985899
Ion Ratio Lower Upper
39 100
54 83.4 66.2 99.2





#17

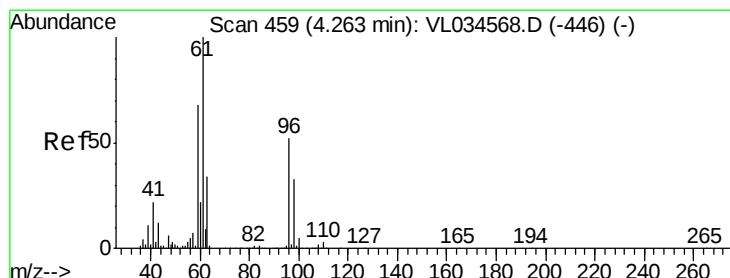
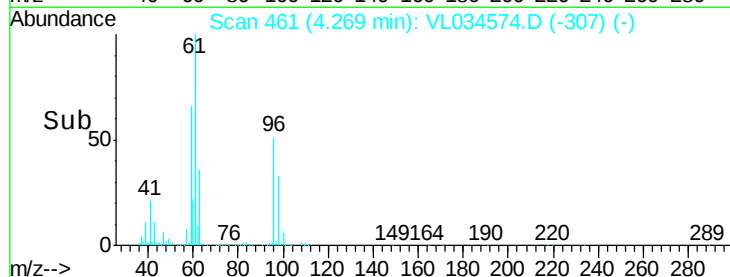
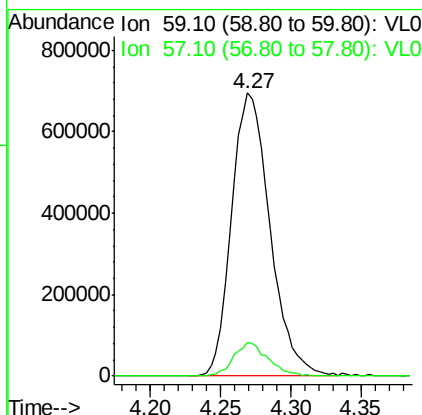
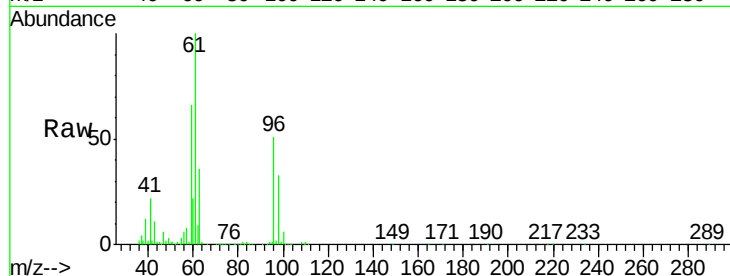
tert-Butyl alcohol
Concen: 9.611 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1327507
Ion Ratio Lower Upper
59 100
57 10.9 8.6 12.8

Manual Integrations
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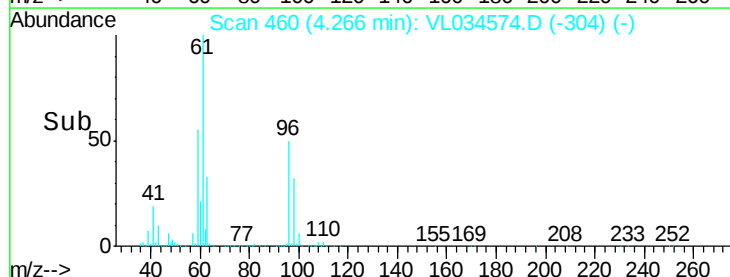
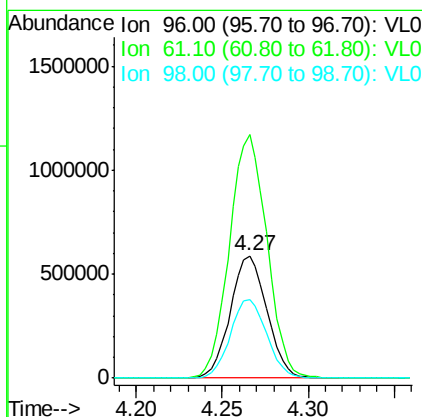
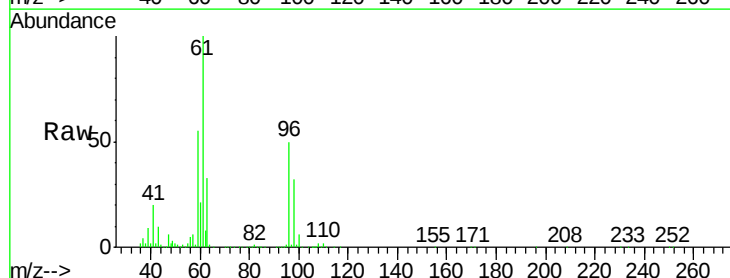
MMDadoda
1/31/2020 4:25:25 PM

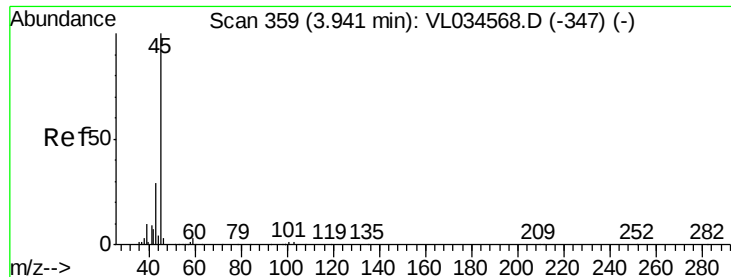


#18

1,1-Dichloroethene
Concen: 14.600 ppbv
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion: 96 Resp: 872626
Ion Ratio Lower Upper
96 100
61 198.3 165.9 248.9
98 64.2 51.9 77.9





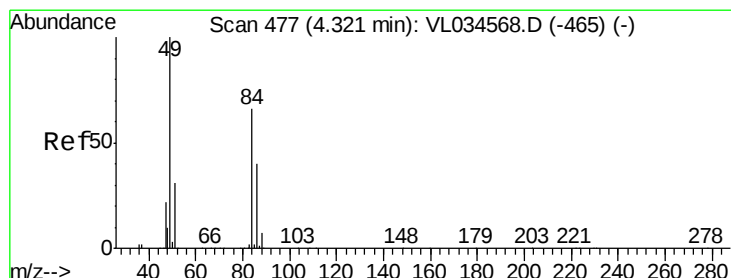
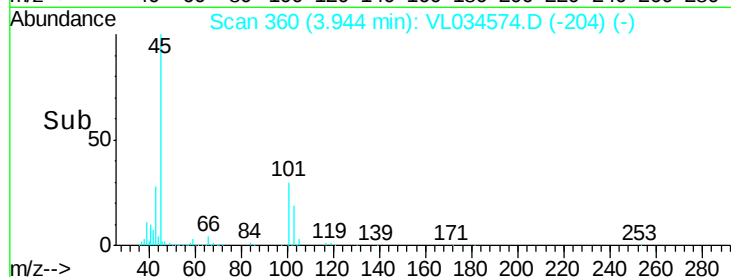
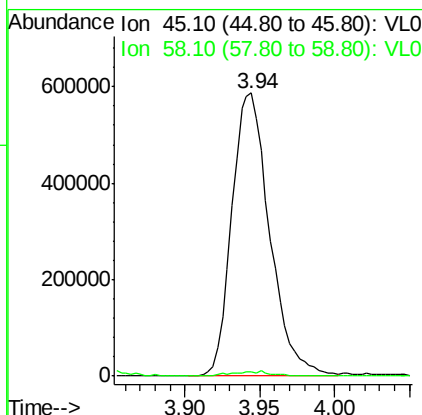
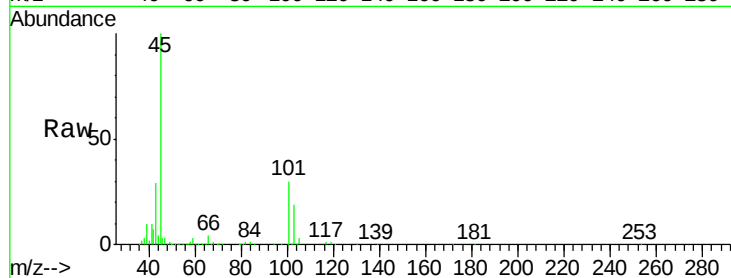
#19
Isopropyl Alcohol
Concen: 9.251 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 1033028
Ion Ratio Lower Upper
45 100
58 2.0 1.4 2.0

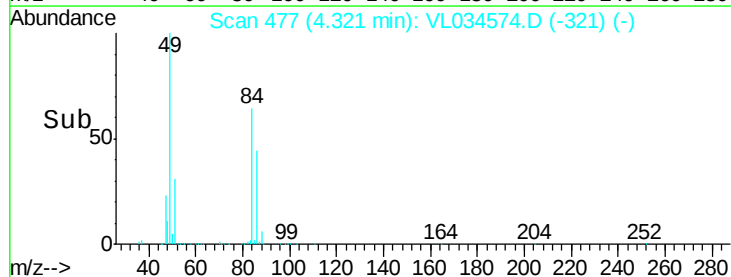
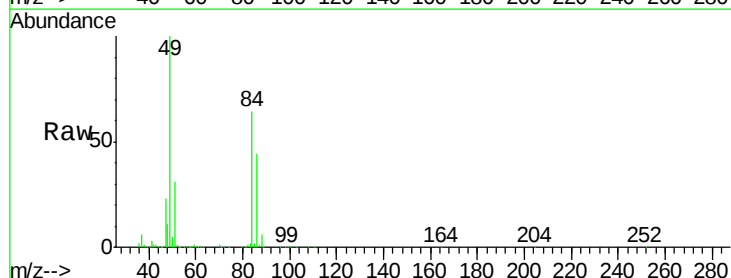
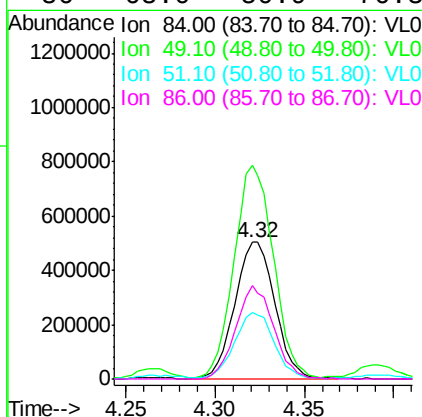
Manual Integrations
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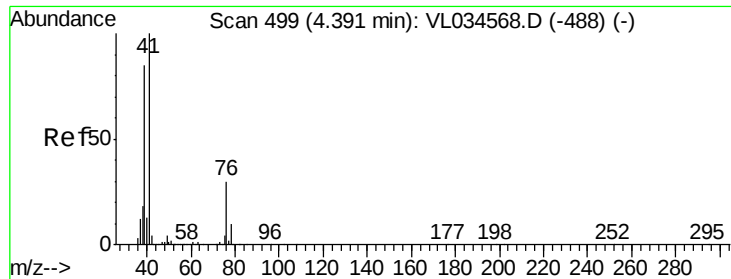
MMDadoda
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#20
Methylene Chloride
Concen: 11.516 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion: 84 Resp: 781682
Ion Ratio Lower Upper
84 100
49 155.3 124.4 186.6
51 48.5 37.0 55.6
86 68.0 50.9 76.3





#21

Allvl Chloride

Concen: 14.806 ppbv

RT: 4.39 min Scan# 499

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1468008

Ion Ratio Lower Upper

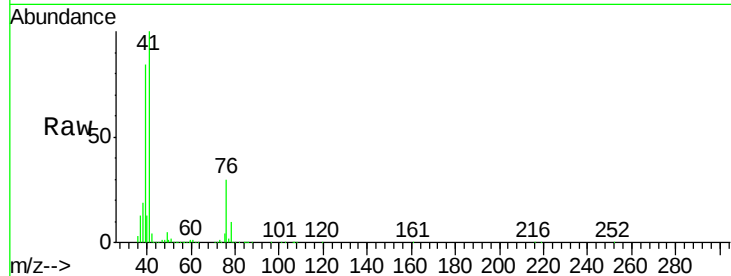
41 100

76 30.3 24.2 36.4

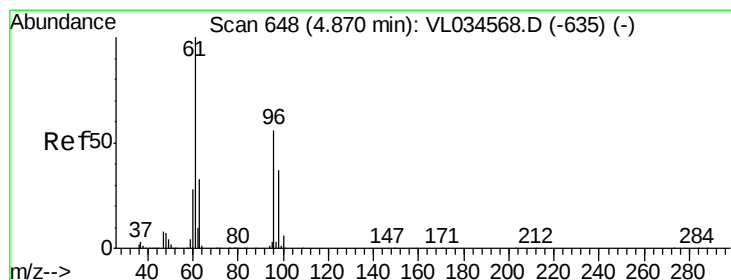
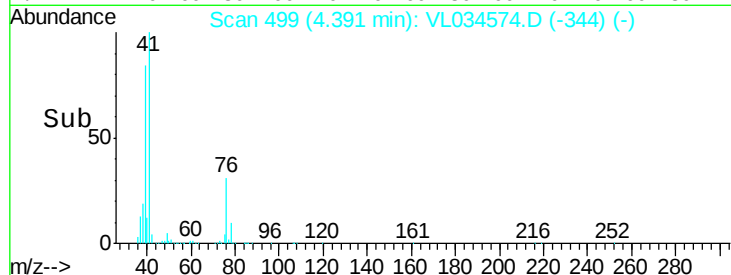
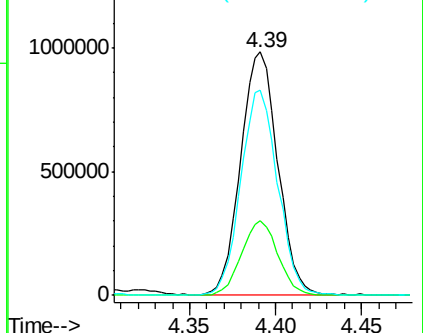
39 84.5 65.8 98.6

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



#22

trans-1,2-Dichloroethene

Concen: 14.794 ppbv

RT: 4.87 min Scan# 648

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

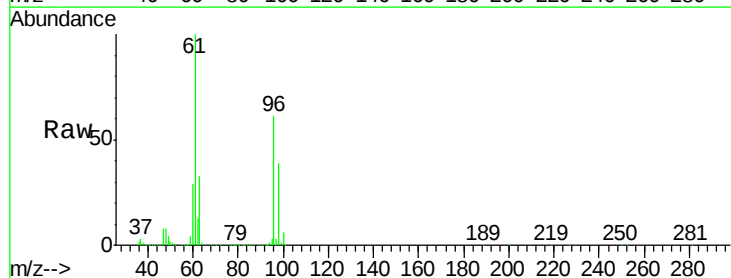
Tgt Ion: 96 Resp: 899358

Ion Ratio Lower Upper

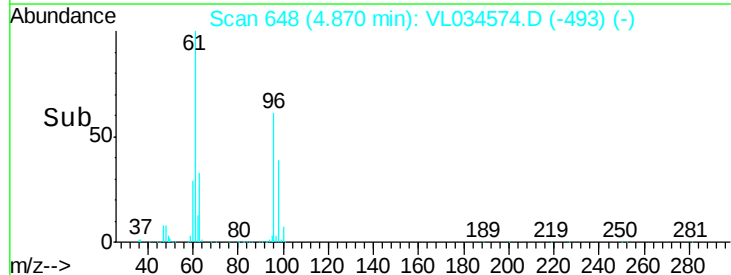
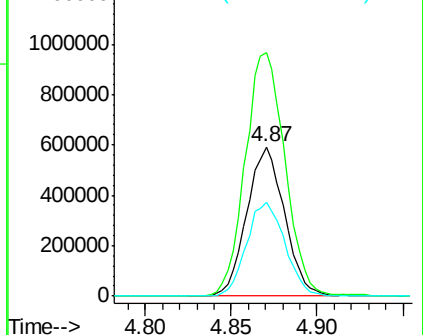
96 100

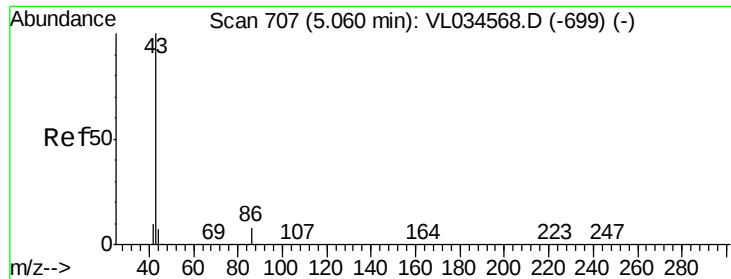
61 163.3 128.4 192.6

98 63.4 50.6 75.8



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





#23

Vinyl Acetate

Concen: 14.027 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2793548

Ion Ratio Lower Upper

43 100

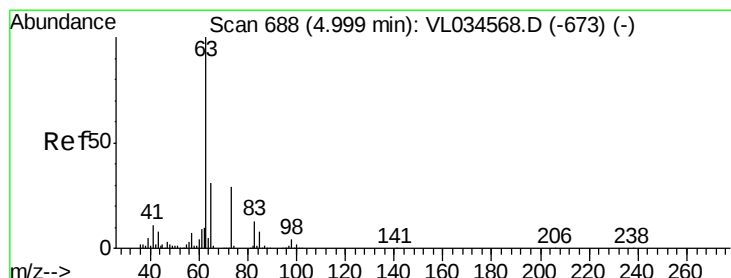
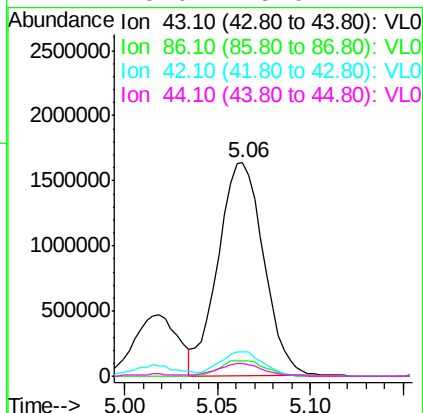
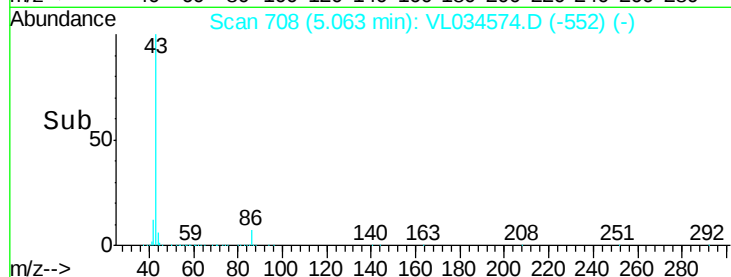
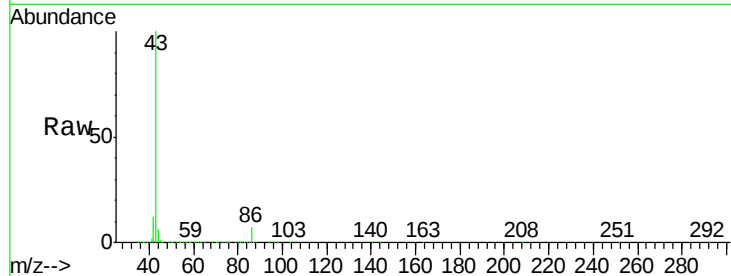
86 7.5 5.4 8.2

42 11.6 8.9 13.3

44 6.0 5.0 7.4

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 13.439 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

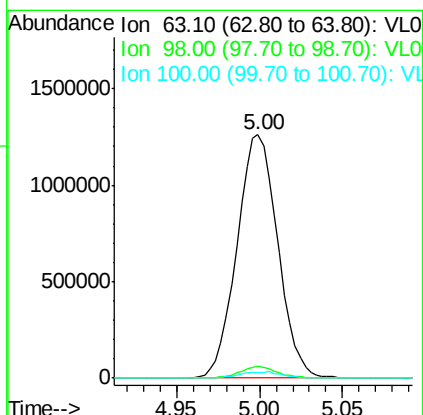
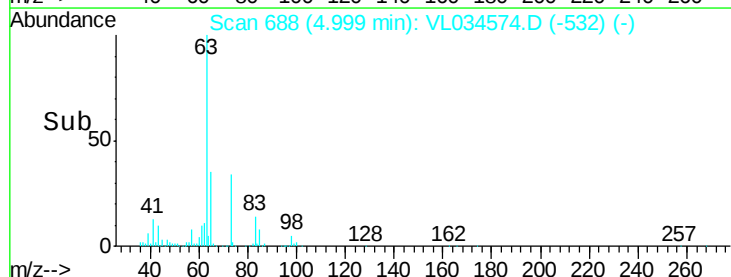
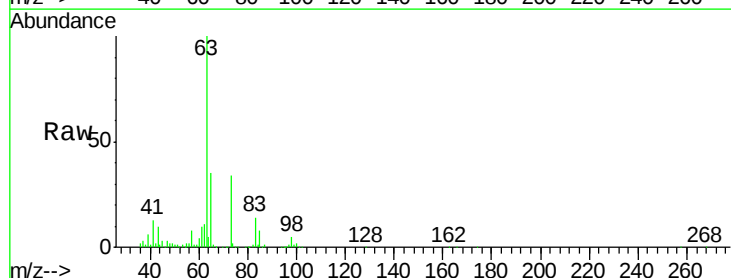
Tgt Ion: 63 Resp: 2150176

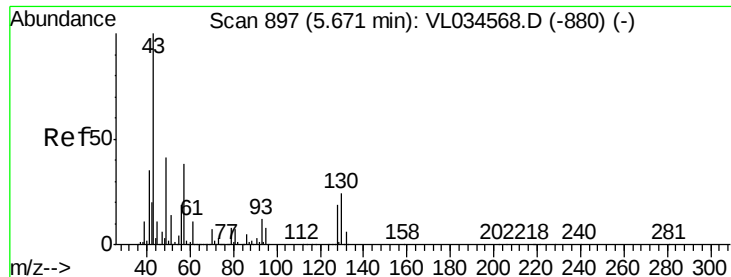
Ion Ratio Lower Upper

63 100

98 4.6 2.1 6.3

100 2.4 1.1 3.3





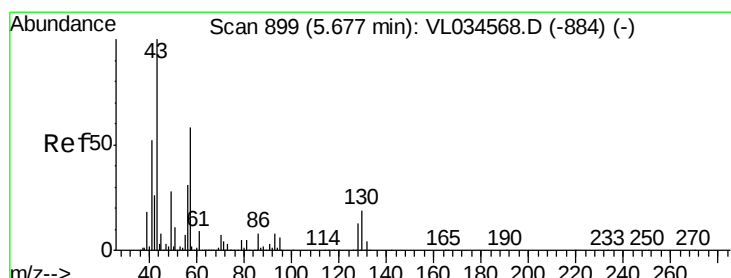
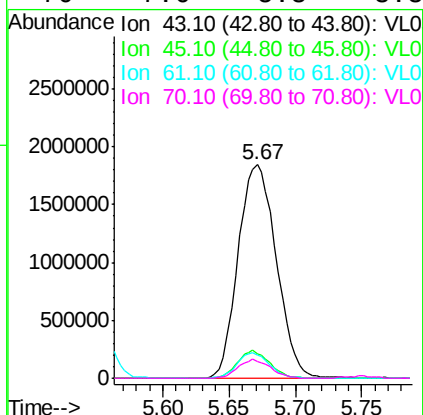
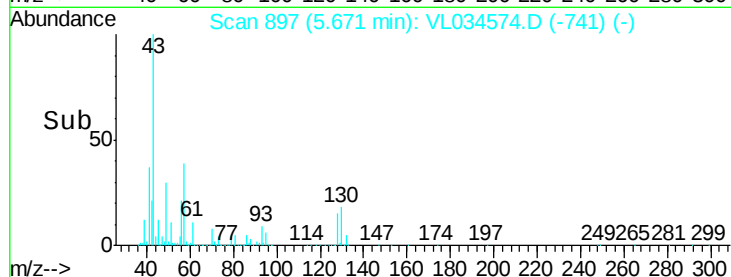
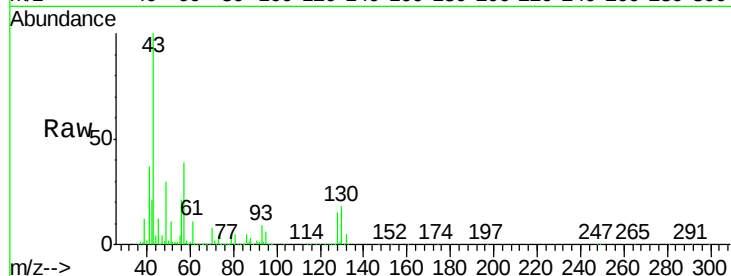
#25
Ethyl Acetate
Concen: 13.700 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	11.1	8.3	12.5	
61	10.0	7.8	11.6	
70	7.6	5.8	8.8	

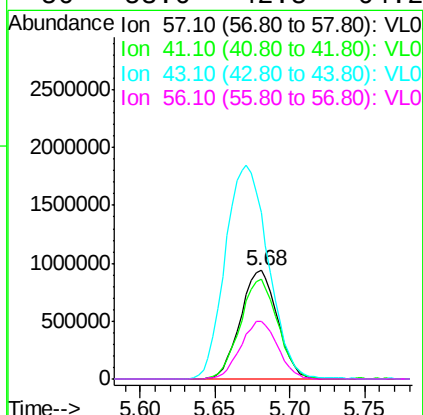
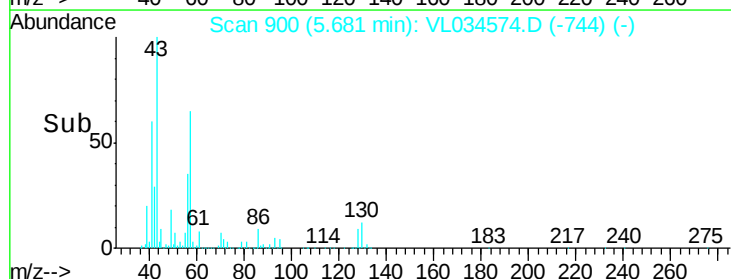
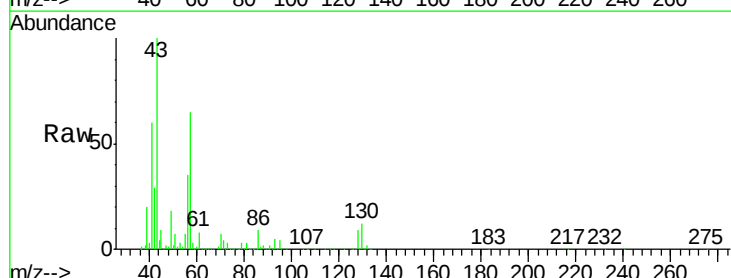
Manual Integrations
APPROVED

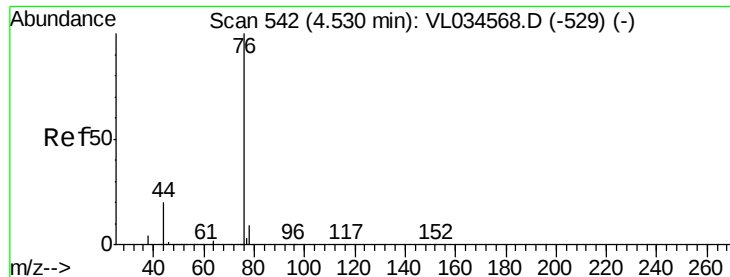
MMDadoda
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#26
Hexane
Concen: 14.243 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	93.5	75.3	112.9	
43	229.2	189.4	284.2	
56	53.6	42.8	64.2	





#27

Carbon Disulfide

Concen: 16.175 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2320921

Ion Ratio Lower Upper

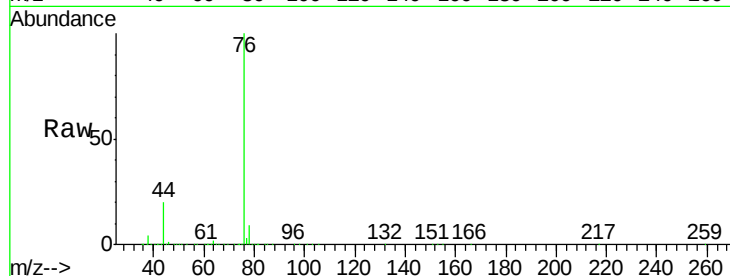
76 100

44 20.0 16.6 25.0

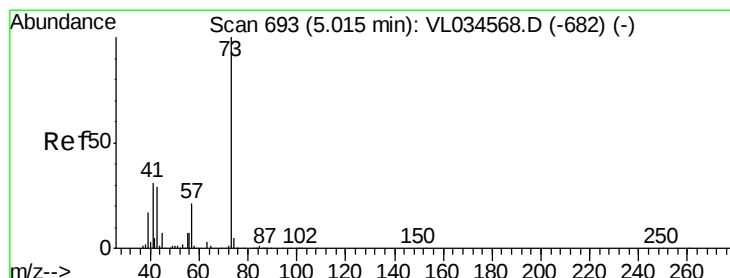
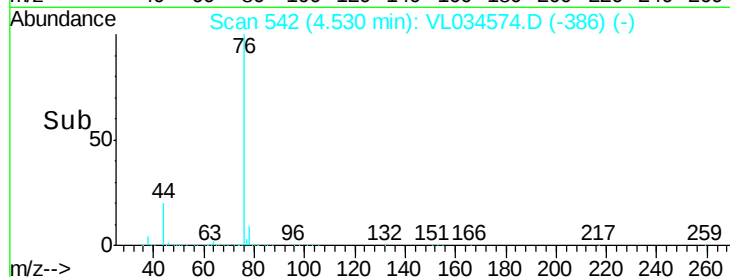
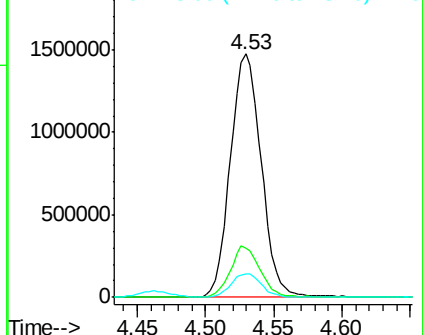
78 9.6 7.4 11.0

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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: 14.494 ppbv

RT: 5.02 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL034574.D

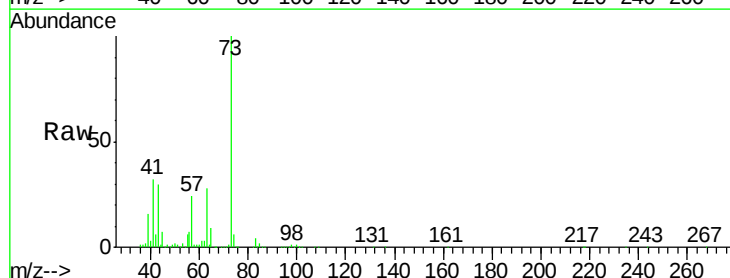
Acq: 30 Jan 2020 15:57

Tgt Ion: 73 Resp: 2747888

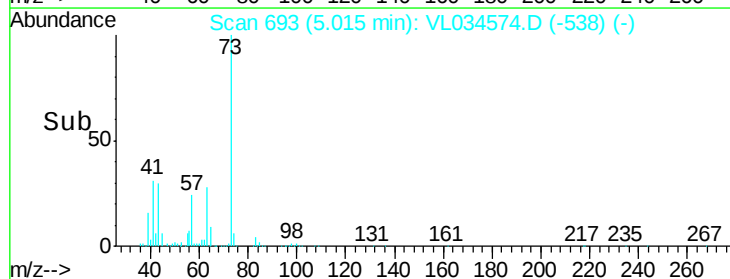
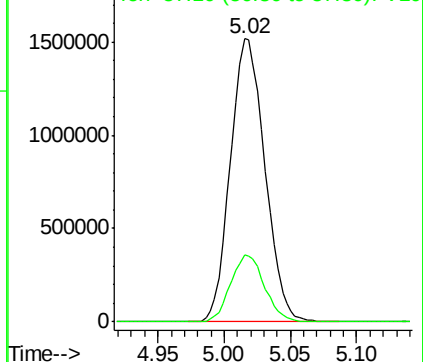
Ion Ratio Lower Upper

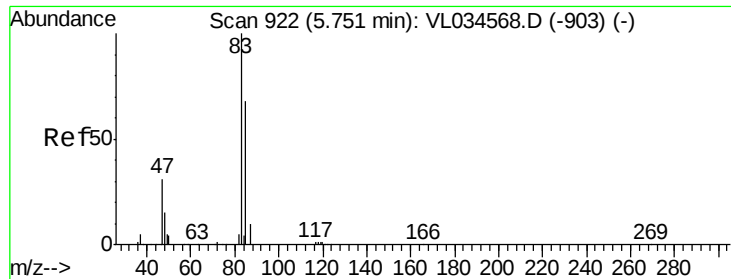
73 100

57 23.4 18.2 27.2



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





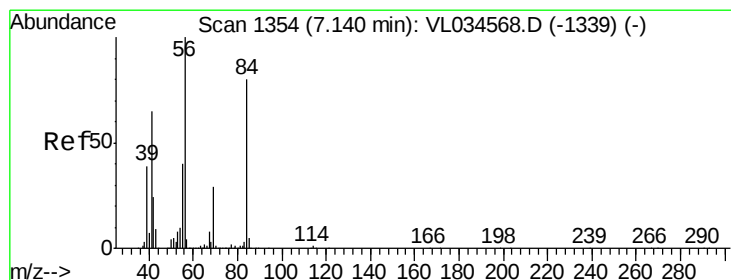
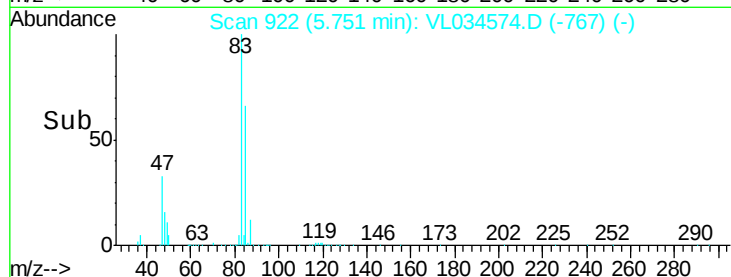
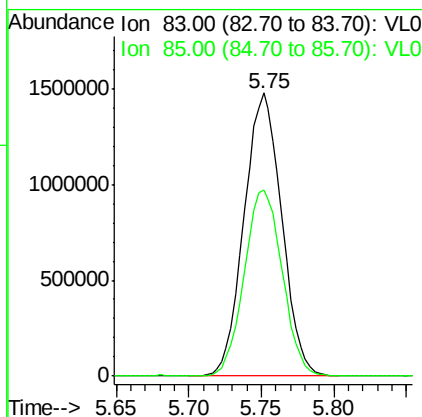
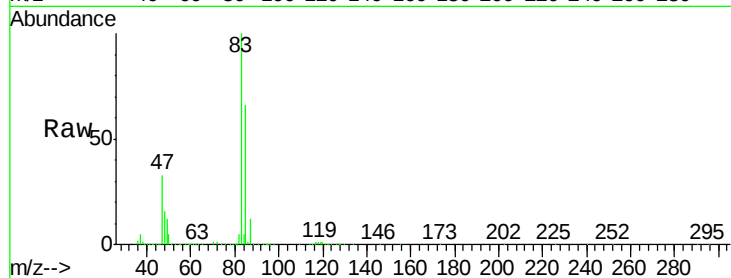
#29
Chloroform
Concen: 13.616 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2674437
Ion Ratio Lower Upper
83 100
85 65.5 51.0 76.6

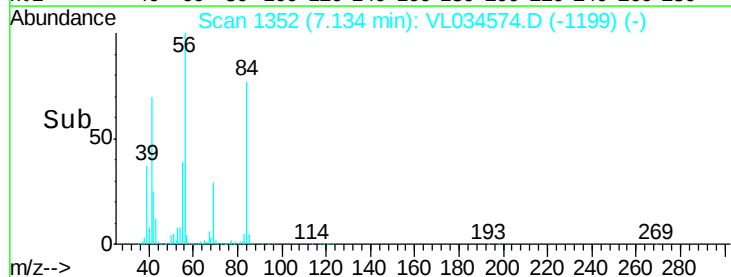
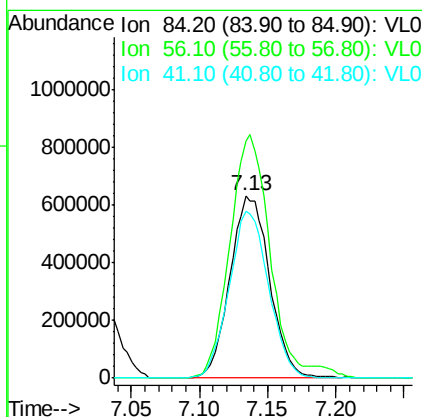
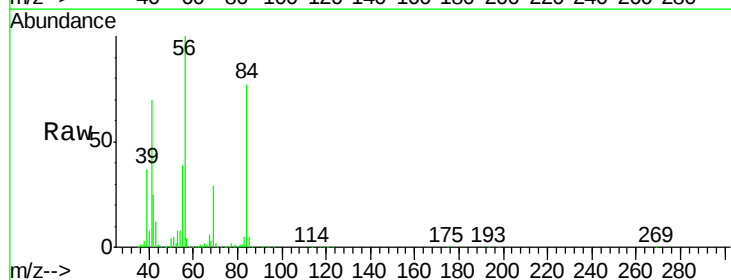
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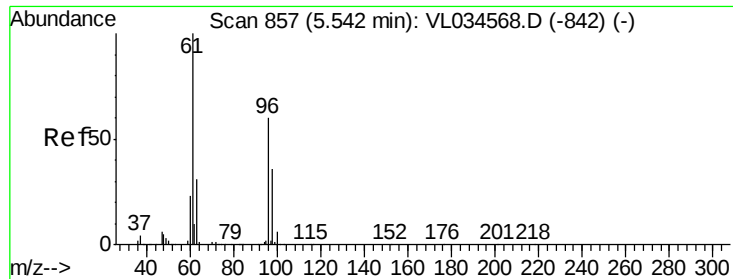
MMDadoda
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#30
Cyclohexane
Concen: 15.076 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion: 84 Resp: 1272053
Ion Ratio Lower Upper
84 100
56 137.6 112.7 169.1
41 91.4 73.0 109.4





#31

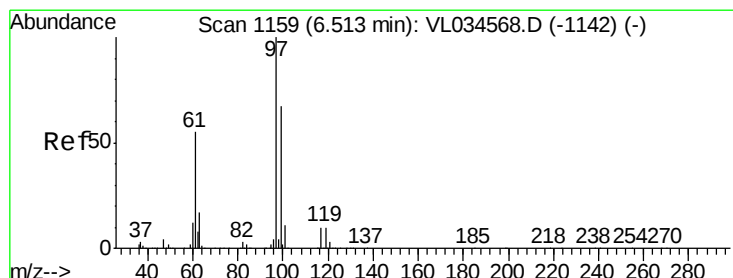
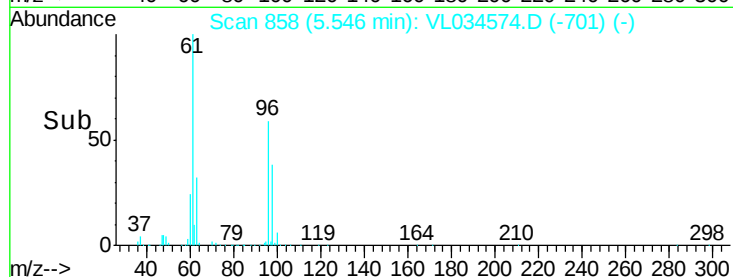
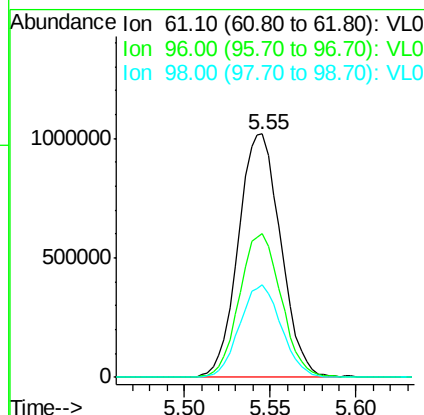
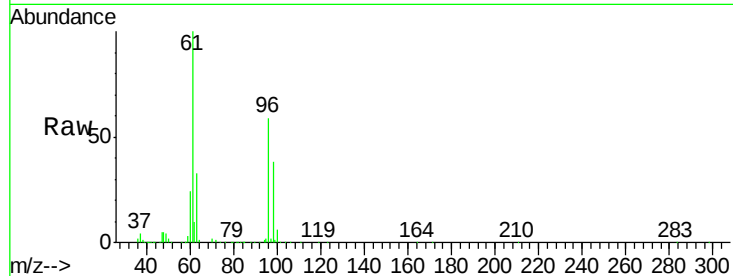
cis-1,2-Dichloroethene
 Concen: 15.058 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.8	47.1	70.7
98	38.3	31.0	46.6

Manual Integrations
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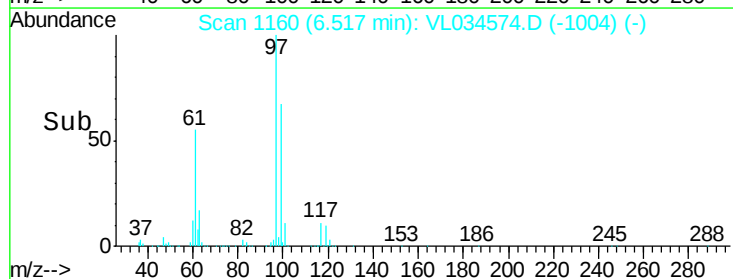
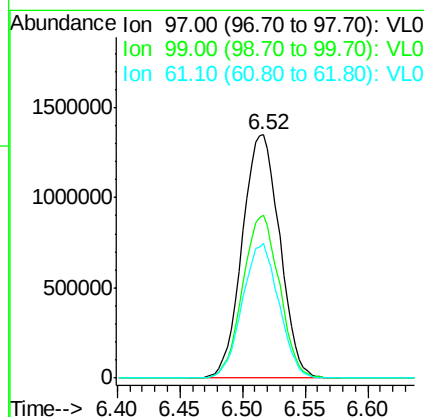
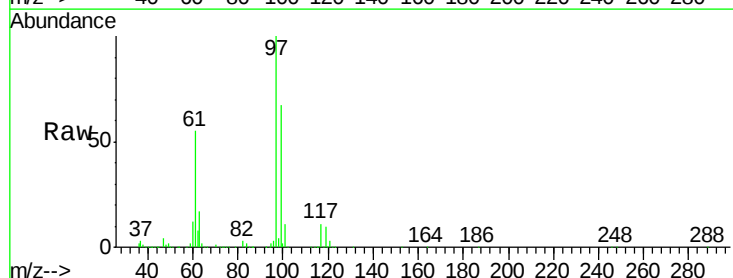
MMDadoda
 1/31/2020 4:25:25 PM

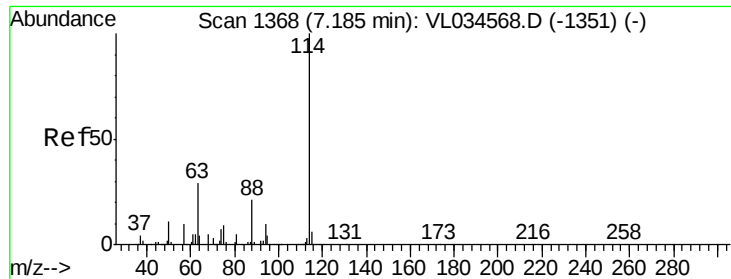


#32

1,1,1-Trichloroethane
 Concen: 13.750 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.7	77.5
61	53.9	42.9	64.3





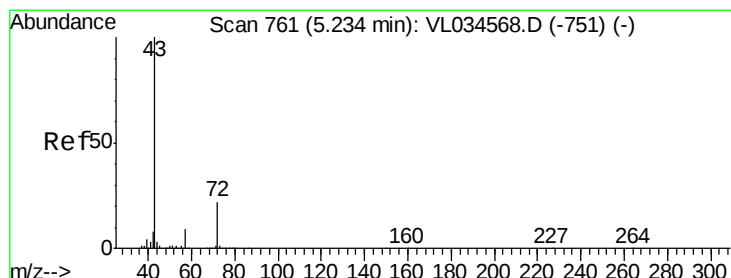
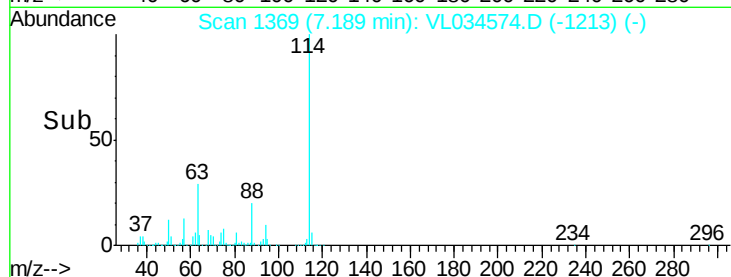
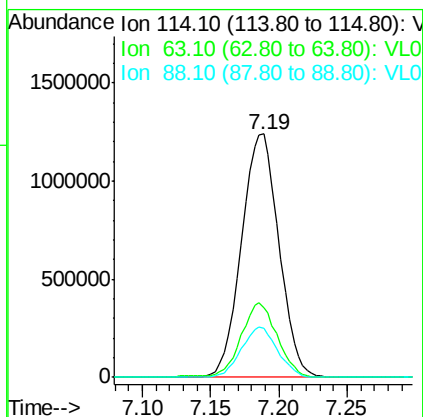
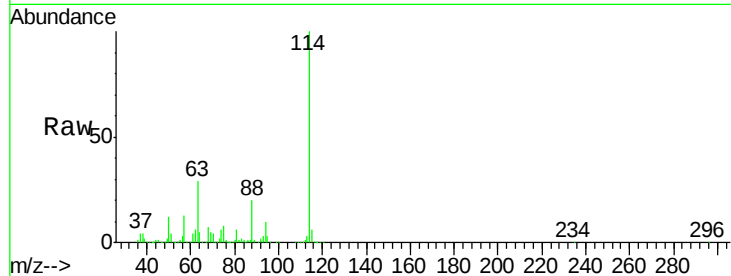
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.2	24.1	36.1
88	20.0	15.7	23.5

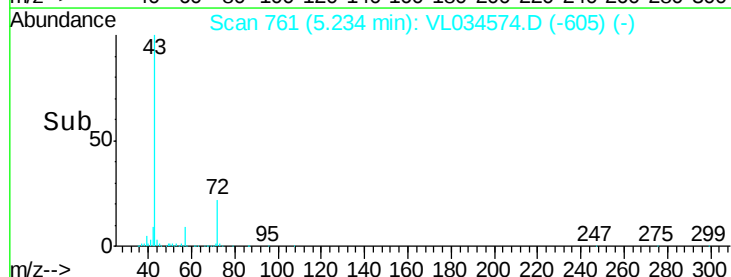
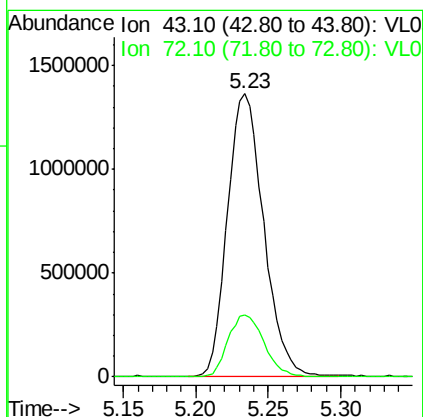
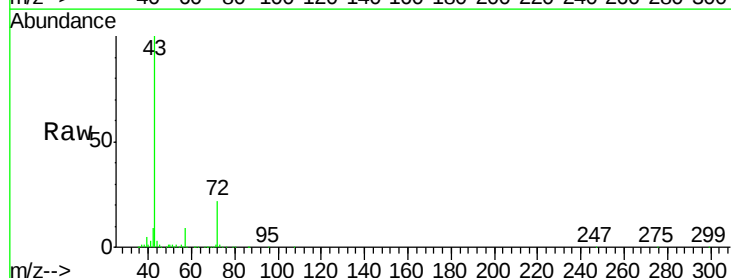
Manual Integrations
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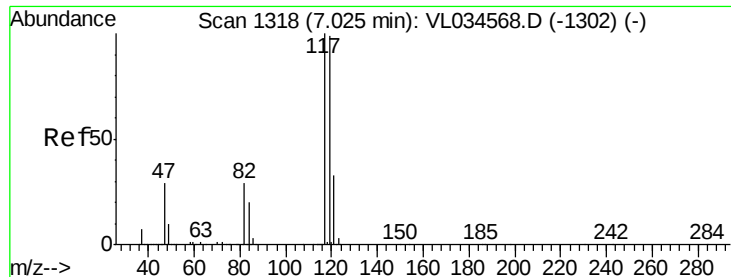
MMDadoda
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#34
 2-Butanone
 Concen: 14.052 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.0	25.4





#35

Carbon Tetrachloride

Concen: 13.959 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

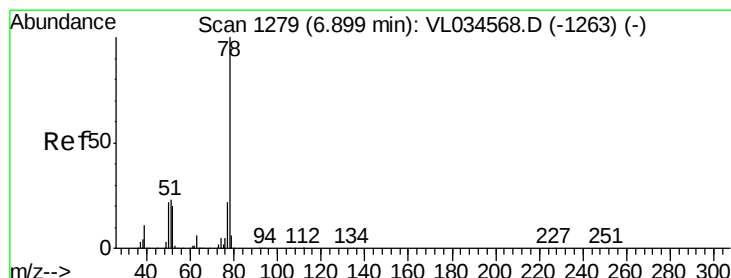
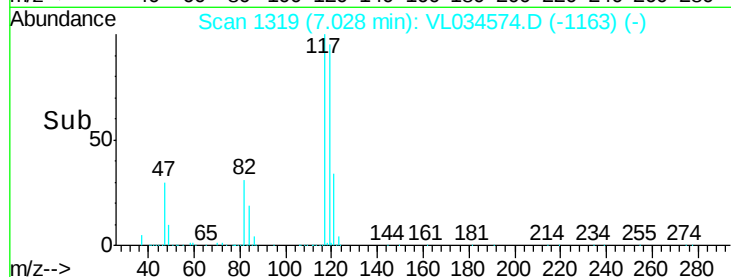
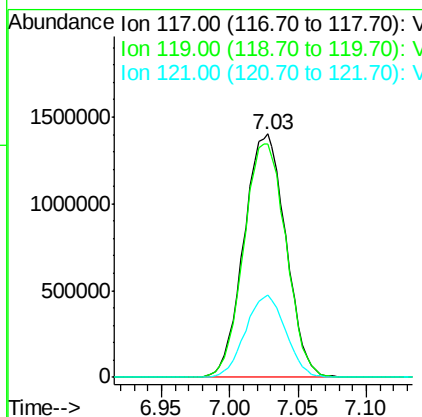
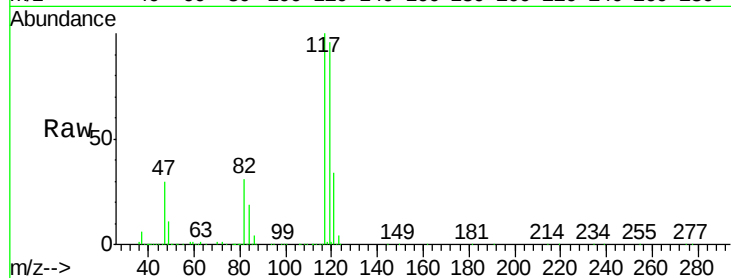
ClientSampleId :

VSTDIC015

Tot Ion:	117	Resp:	2986212
Ion	Ratio	Lower	Upper
117	100		
119	95.6	78.7	118.1
121	33.8	25.9	38.9

Manual Integrations
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#36

Benzene

Concen: 14.584 ppbv

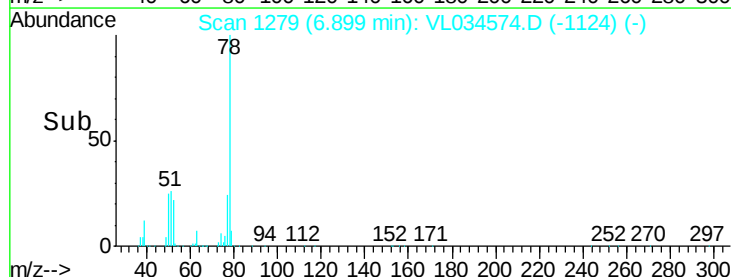
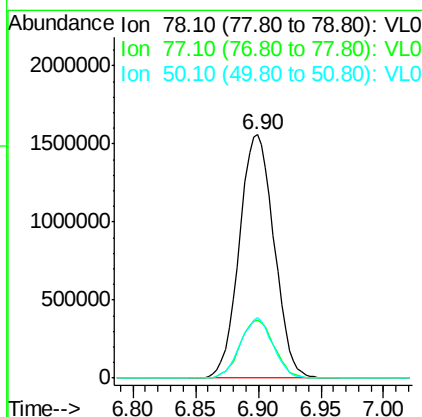
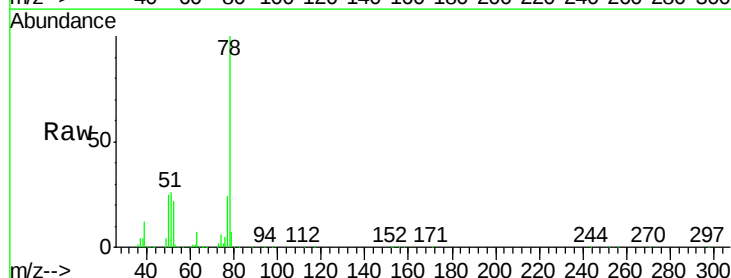
RT: 6.90 min Scan# 1279

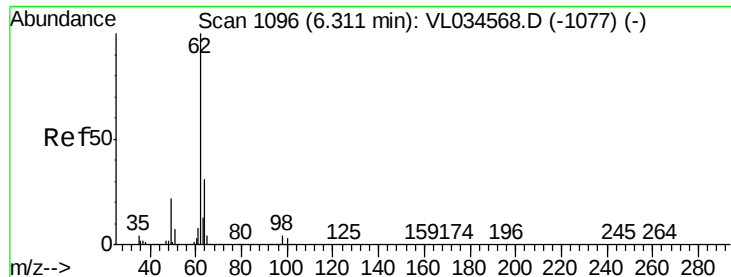
Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Tgt Ion:	78	Resp:	2998863
Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.6	28.0
50	24.8	18.8	28.2





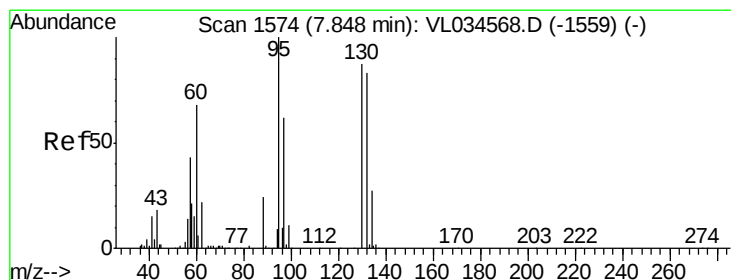
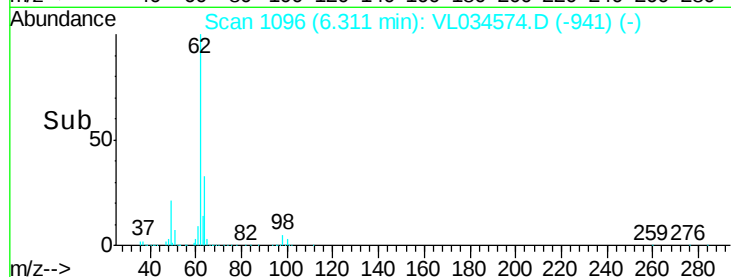
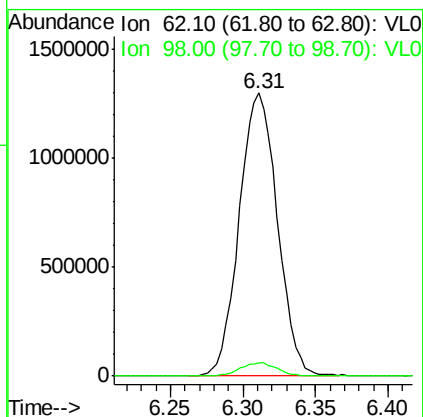
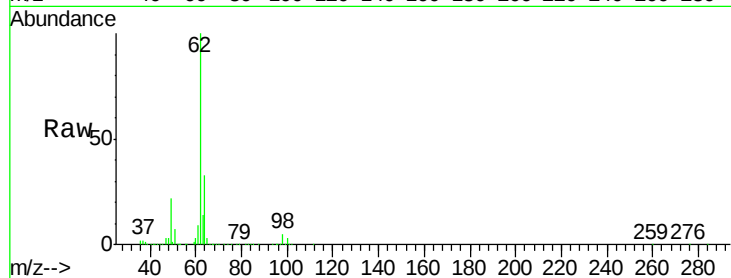
#37
 1,2-Dichloroethane
 Concen: 14.236 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. -0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.6	3.8	5.6

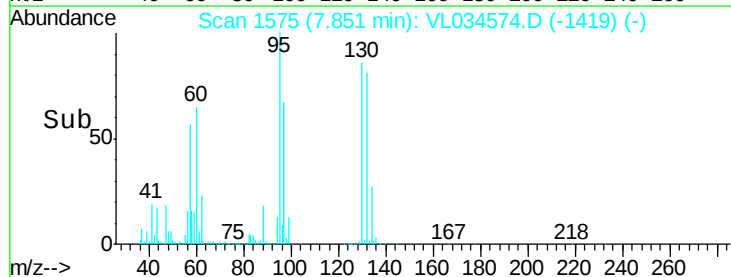
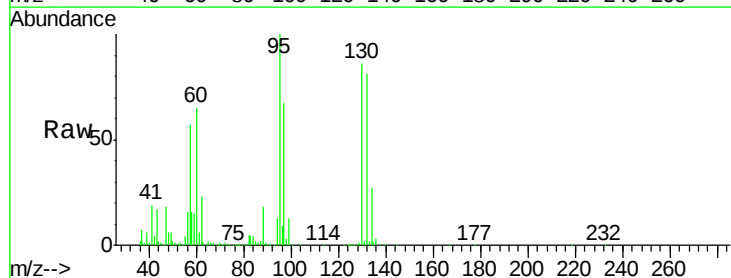
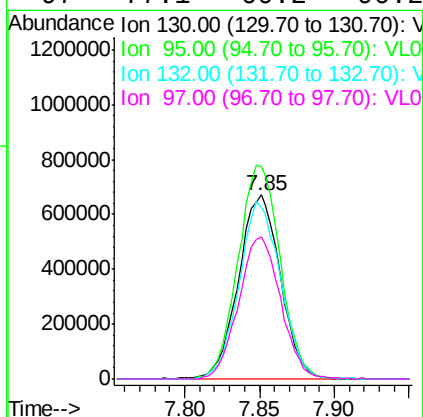
Manual Integrations
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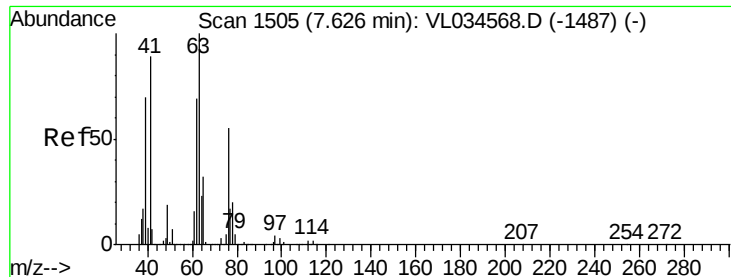
MMDadoda
 1/31/2020 4:25:25 PM



#38
 Trichloroethene
 Concen: 15.621 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.8	94.2	141.2
132	93.6	76.1	114.1
97	77.1	60.2	90.2





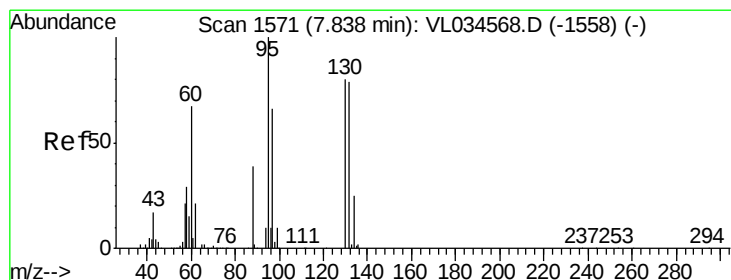
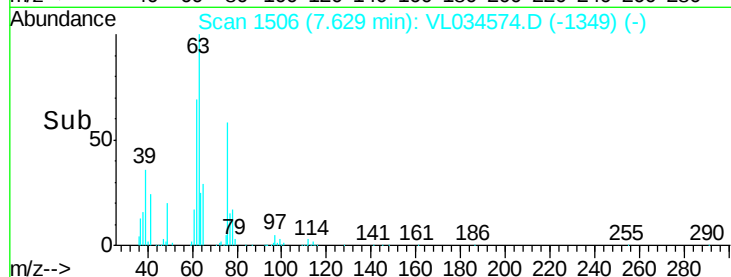
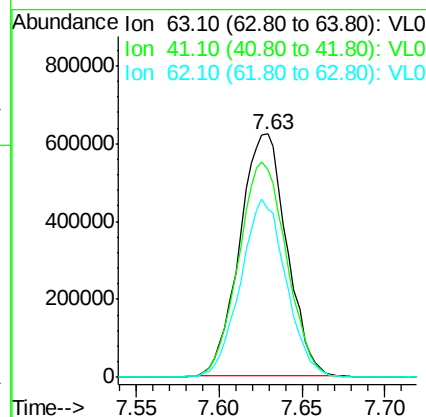
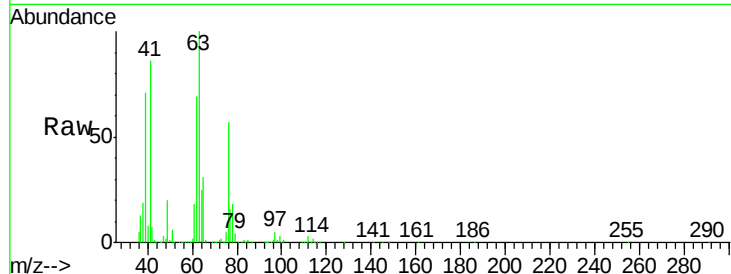
#39
 1,2-Dichloropropane
 Concen: 14.440 ppbv
 RT: 7.63 min Scan# 1506
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.9	66.1	99.1
62	69.0	54.9	82.3

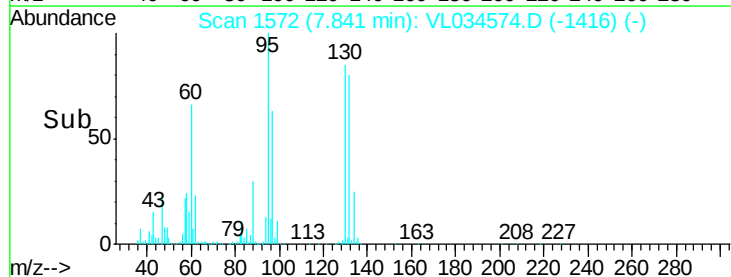
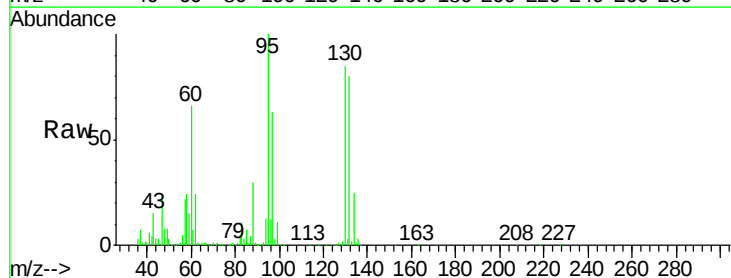
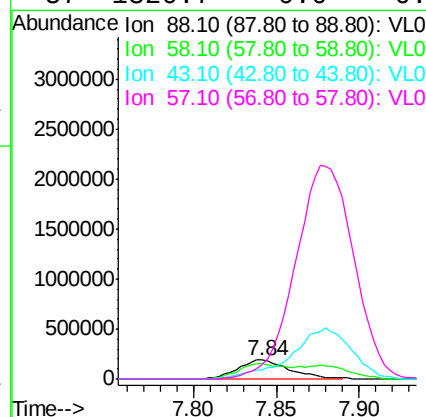
Manual Integrations
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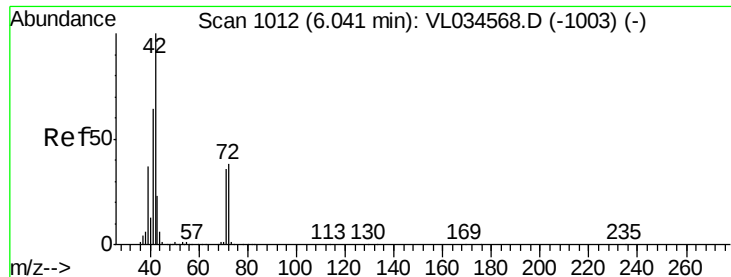
MMDadoda
 1/31/2020 4:25:25 PM



#40
 1,4-Dioxane
 Concen: 11.622 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
88	100		
58	146.9	107.9	161.9
43	326.5	0.0	0.0#
57	1320.7	0.0	0.0#





#41

Tetrahydrofuran

Concen: 15.437 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

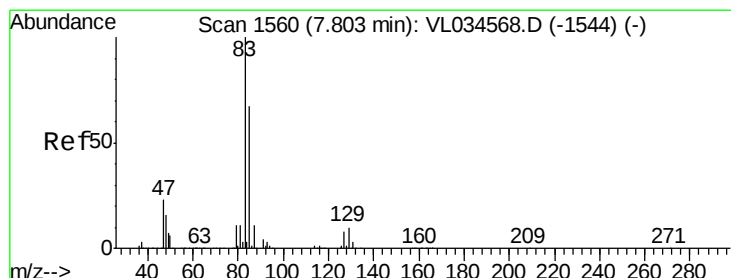
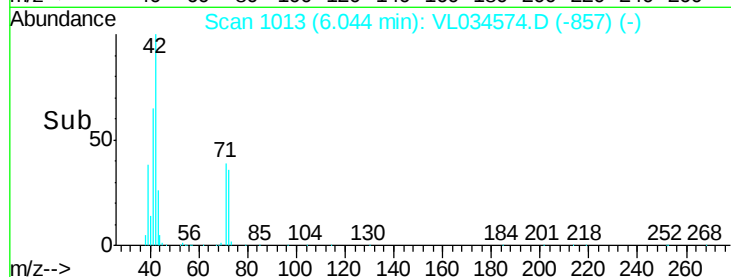
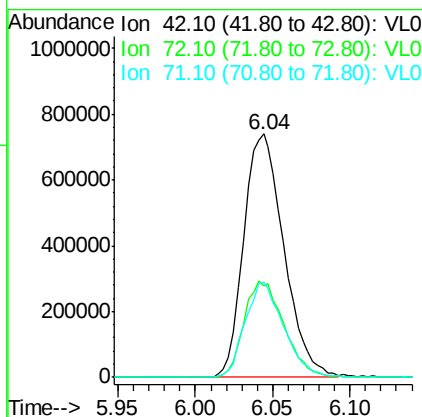
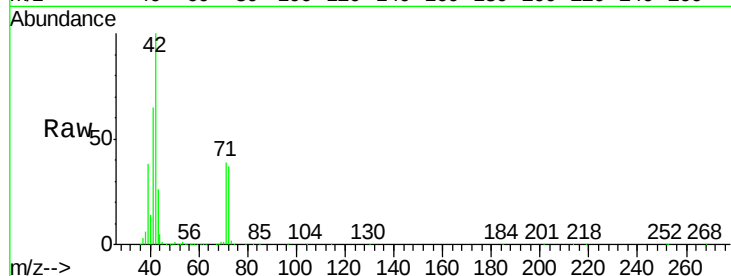
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	1334914
Ion	Ratio	Lower	Upper
42	100		
72	39.3	30.9	46.3
71	38.0	28.9	43.3

Manual Integrations
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#42

Bromodichloromethane

Concen: 14.511 ppbv

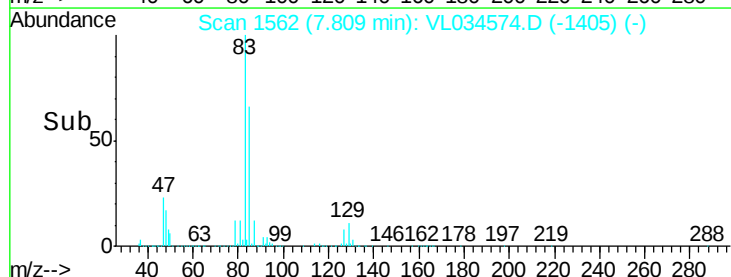
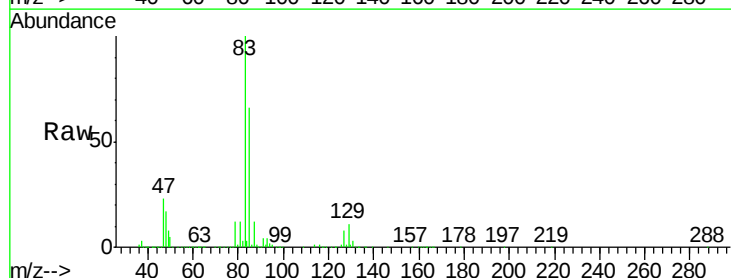
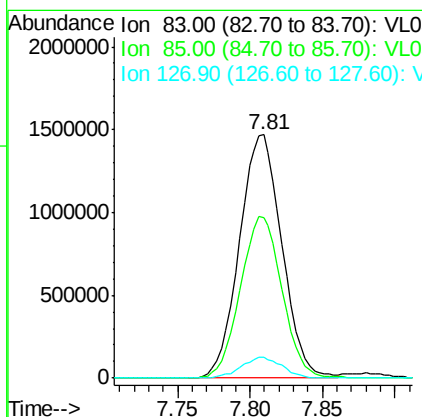
RT: 7.81 min Scan# 1562

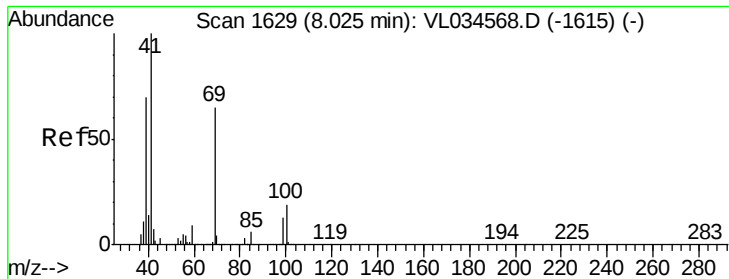
Delta R.T. 0.01 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Tgt Ion:	83	Resp:	2981721
Ion	Ratio	Lower	Upper
83	100		
85	65.9	49.4	74.2
127	8.4	6.2	9.4





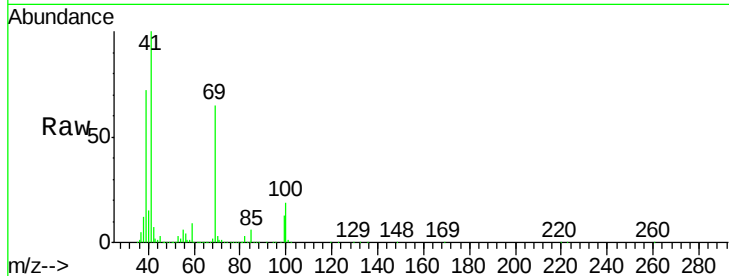
#43
Methvl Methacrilate
Concen: 15.776 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

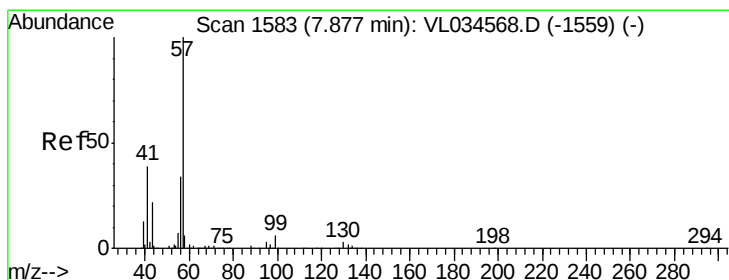
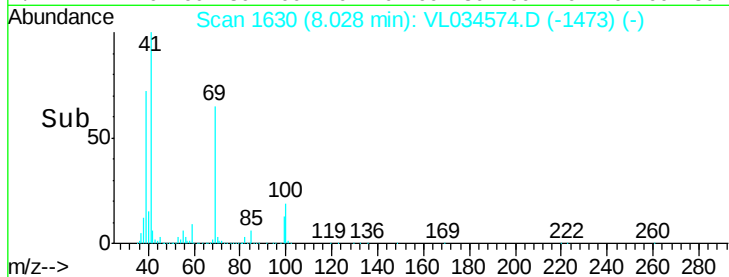
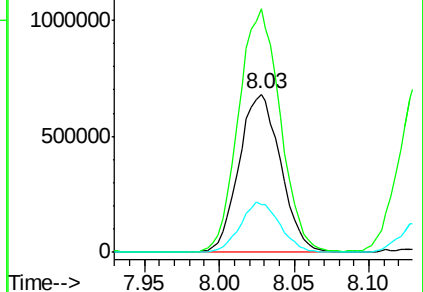
Tot Ion: 69 Resp: 1323306
Ion Ratio Lower Upper
69 100
41 153.9 124.0 186.0
100 30.2 23.1 34.7

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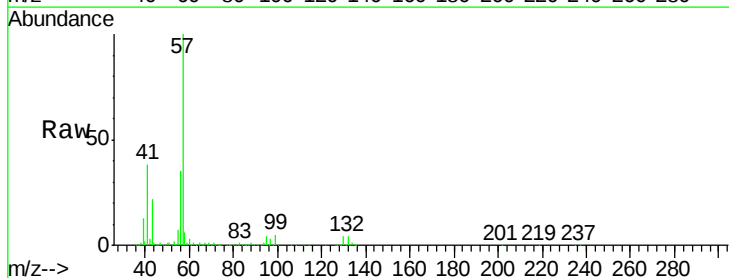


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

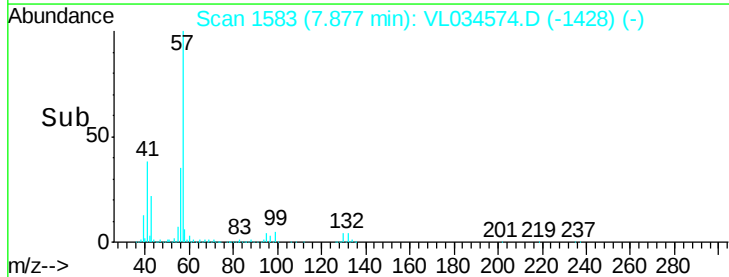
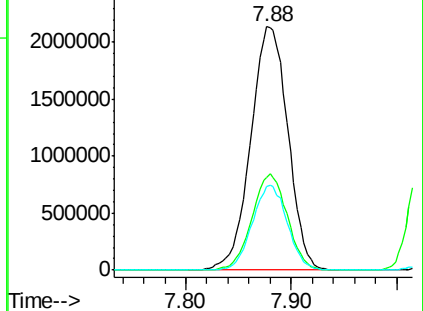


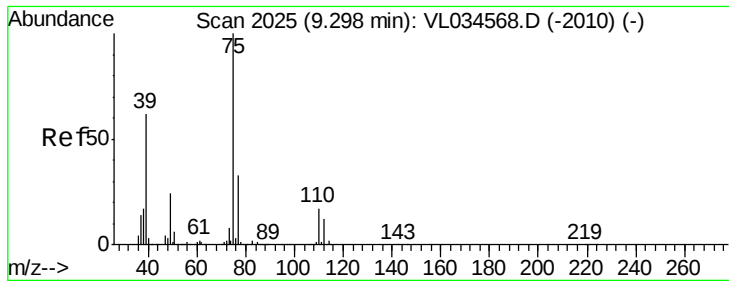
#44
2,2,4-Trimethylpentane
Concen: 13.785 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion: 57 Resp: 5243583
Ion Ratio Lower Upper
57 100
41 37.5 29.0 43.4
56 32.8 24.9 37.3



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 17.522 ppbv

RT: 9.30 min Scan# 2026

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Tot Ion: 75 Resp: 1893291

Ion Ratio Lower Upper

75 100

77 33.7 24.2 36.2

Instrument :

MSVOA_L

ClientSampleId :

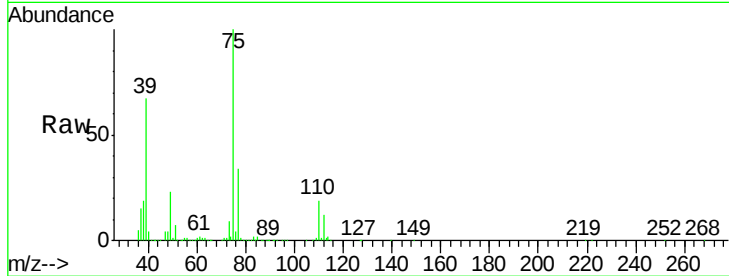
VSTDIC015

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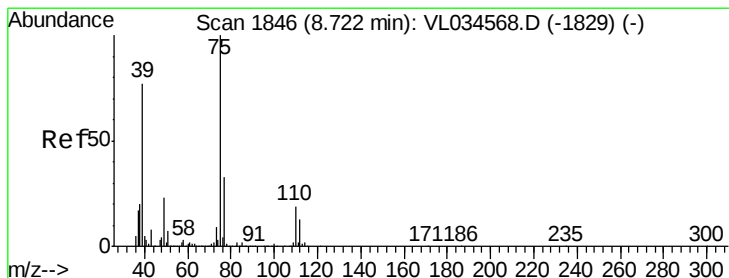
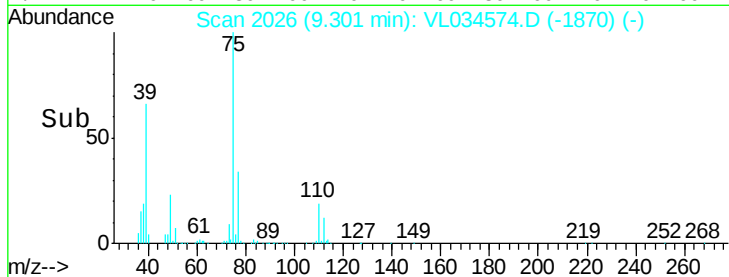
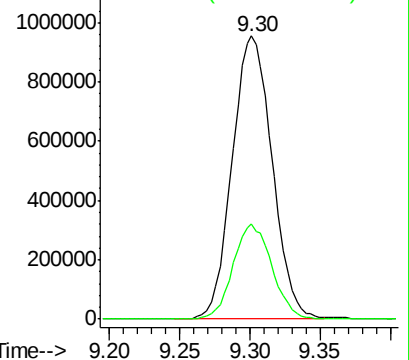
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 16.747 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

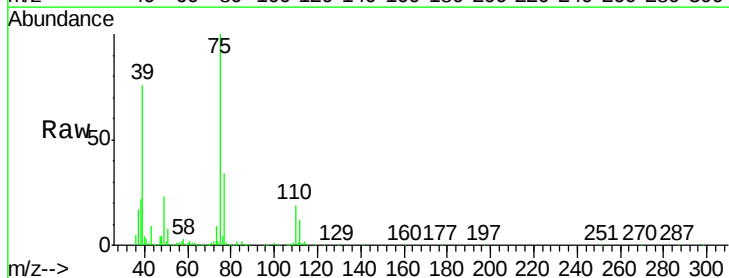
Tgt Ion: 75 Resp: 2068475

Ion Ratio Lower Upper

75 100

39 76.0 60.5 90.7

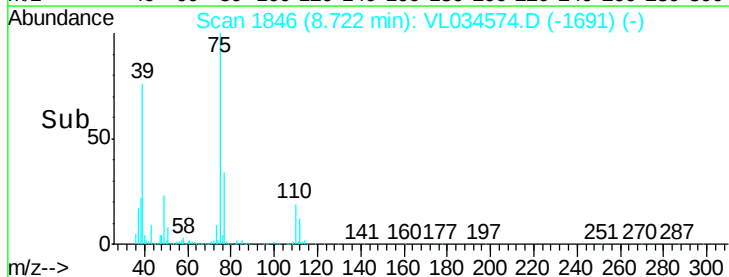
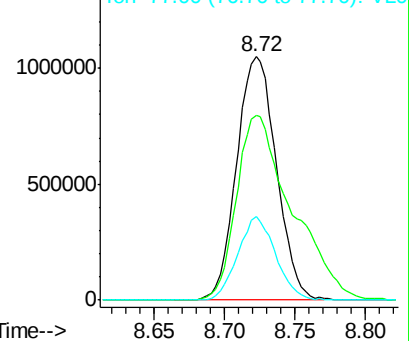
77 34.1 24.8 37.2

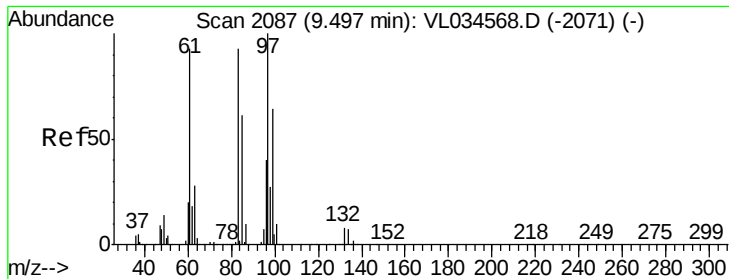


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





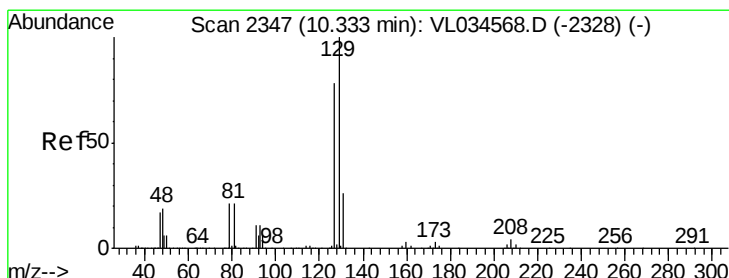
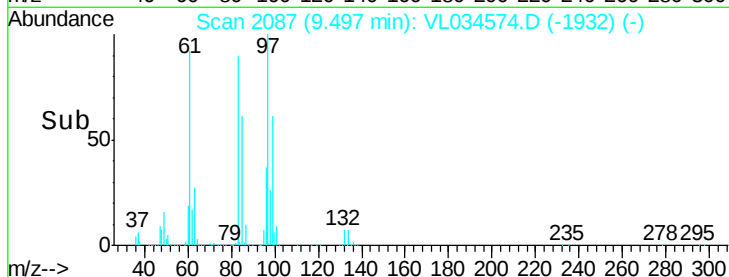
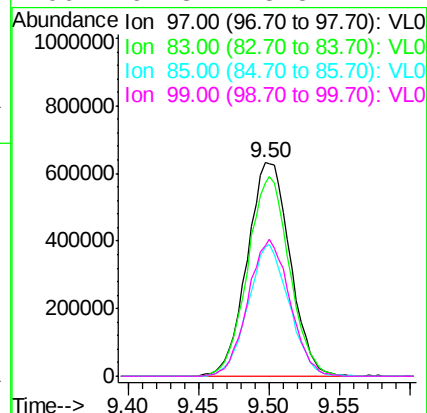
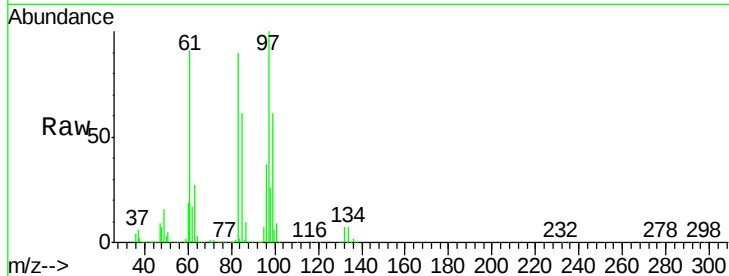
#47
 1,1,2-Trichloroethane
 Concen: 14.493 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.3	75.0	112.4	
85	60.5	48.2	72.4	
99	61.3	48.5	72.7	

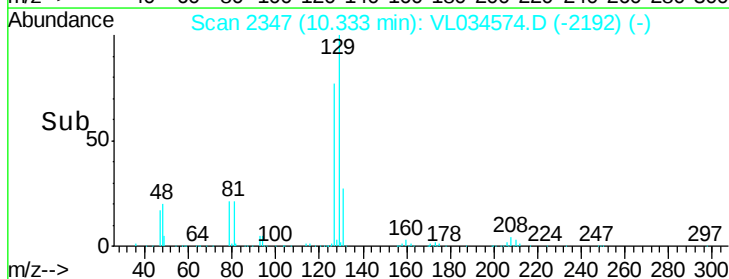
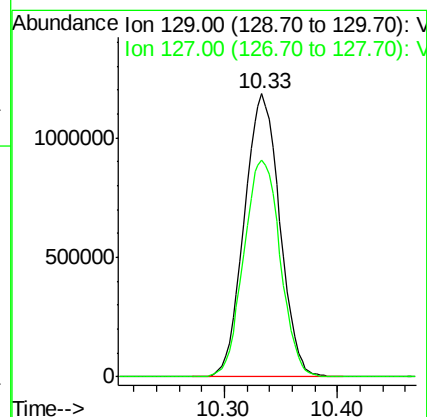
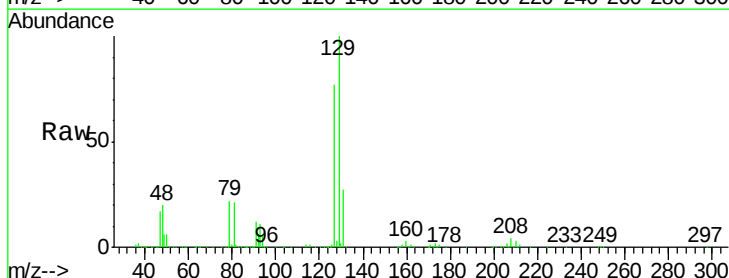
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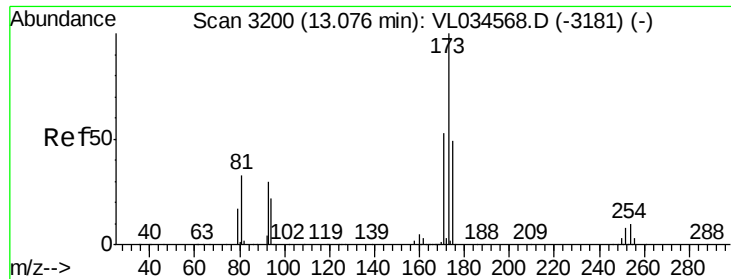
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#48
 Dibromochloromethane
 Concen: 15.973 ppbv
 RT: 10.33 min Scan# 2347
 Delta R.T. -0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.0	39.4	118.2	





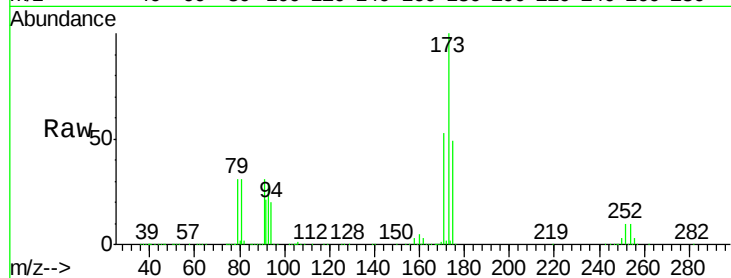
#49
Bromoform
Concen: 16.114 ppbv
RT: 13.08 min Scan# 3202
Delta R.T. 0.01 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

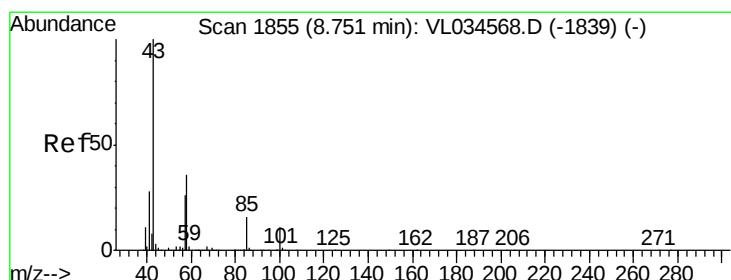
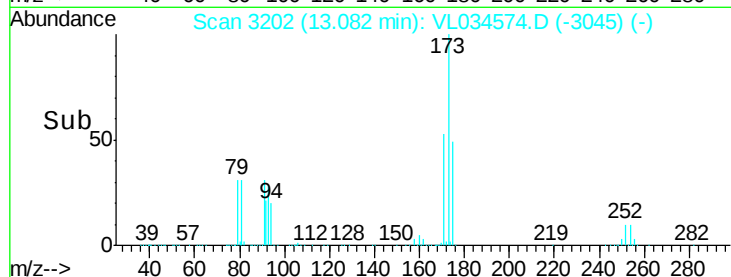
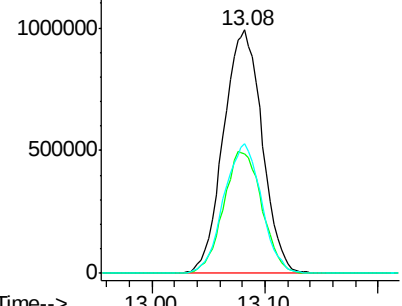
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	39.8	59.8
171	51.8	42.1	63.1

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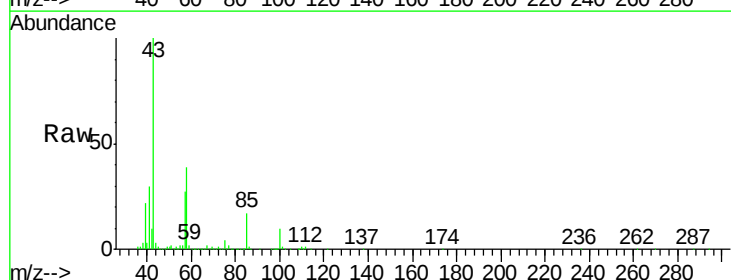


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

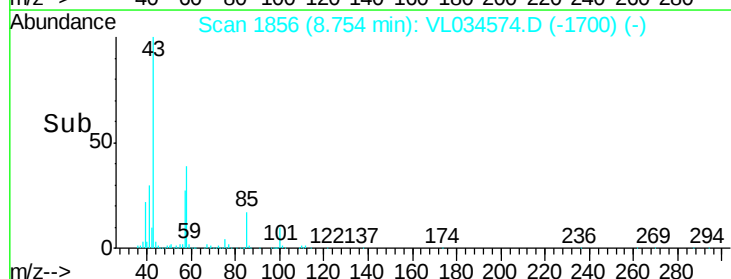
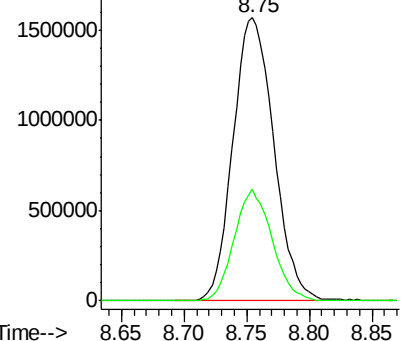


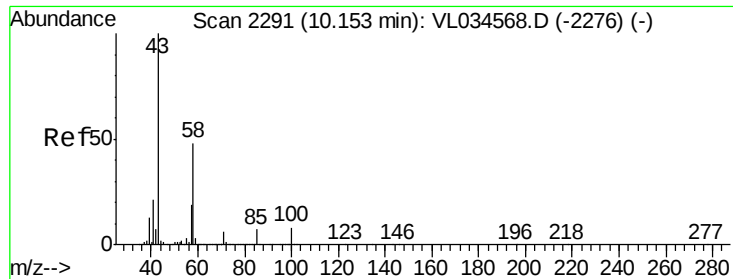
#50
4-Methyl-2-Pentanone
Concen: 14.520 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.8	28.2	42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





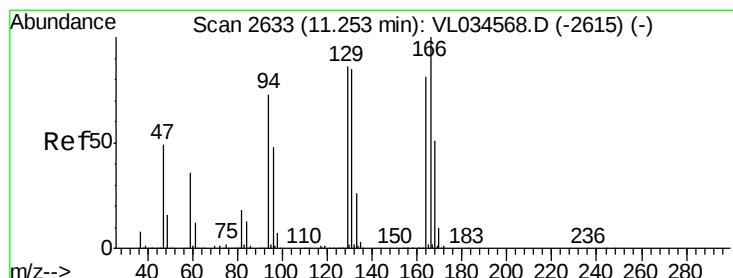
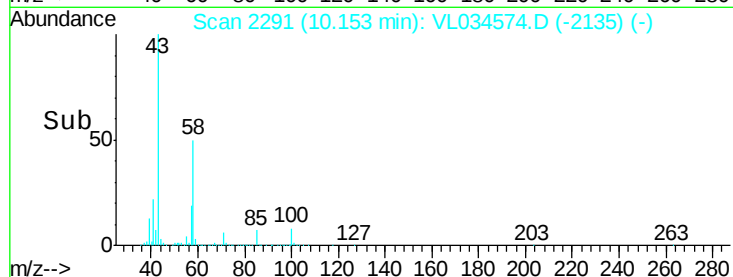
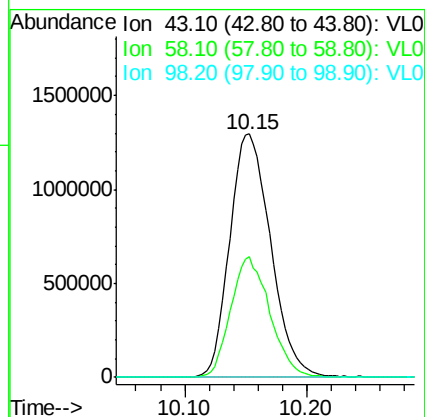
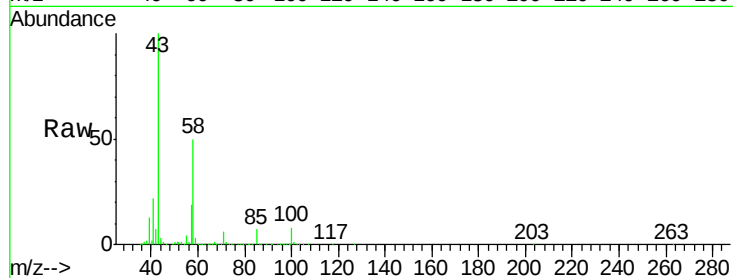
#51
2-Hexanone
Concen: 15.299 ppbv
RT: 10.15 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3022065
Ion Ratio Lower Upper
43 100
58 47.2 37.4 56.0
98 0.2 0.2 0.2

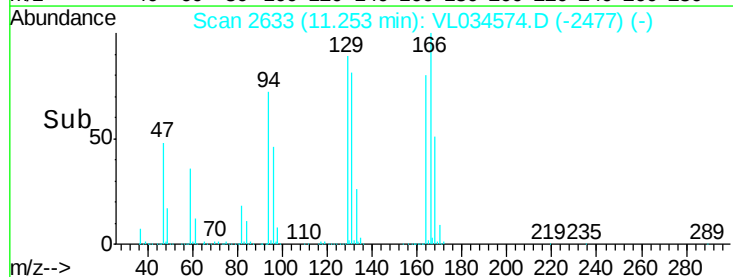
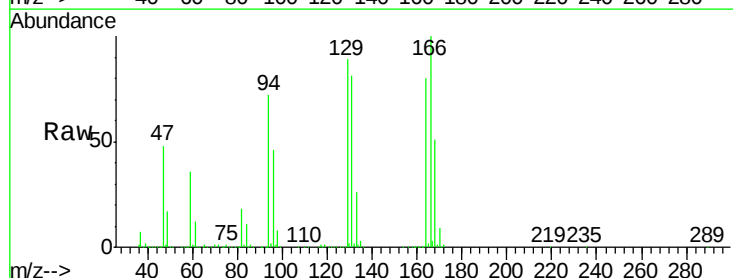
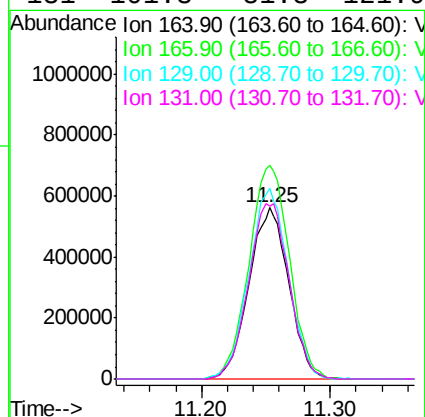
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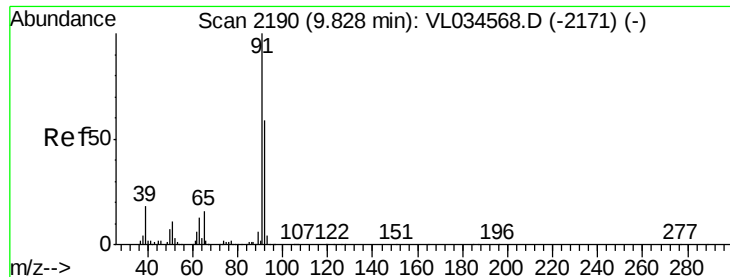
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#52
Tetrachloroethene
Concen: 15.038 ppbv
RT: 11.25 min Scan# 2633
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion:164 Resp: 1206812
Ion Ratio Lower Upper
164 100
166 124.8 95.7 143.5
129 111.6 82.2 123.2
131 101.3 81.3 121.9





#53

Toluene

Concen: 15.565 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3516540

Ion Ratio Lower Upper

91 100

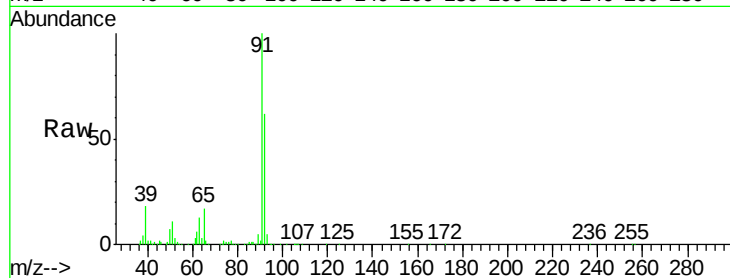
92 61.9 48.4 72.6

Manual Integrations

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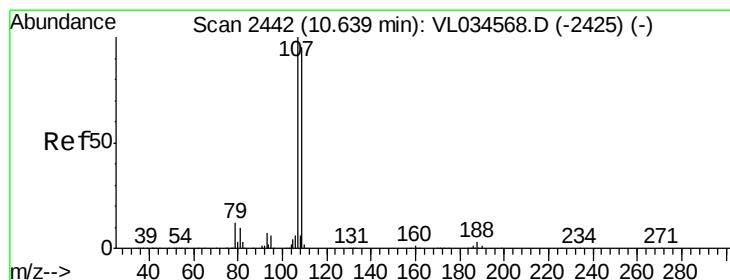
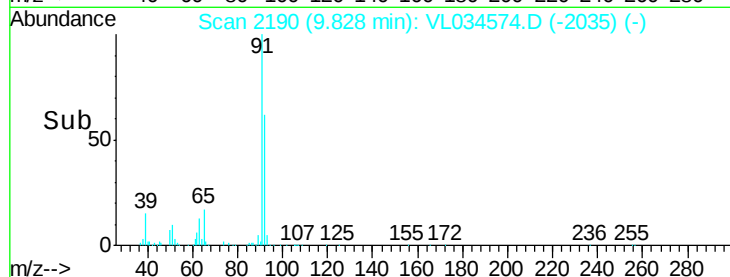
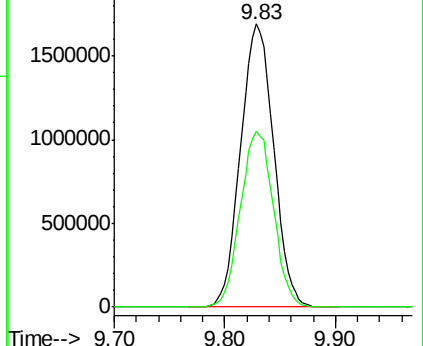
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 15.095 ppbv

RT: 10.64 min Scan# 2443

Delta R.T. 0.00 min

Lab File: VL034574.D

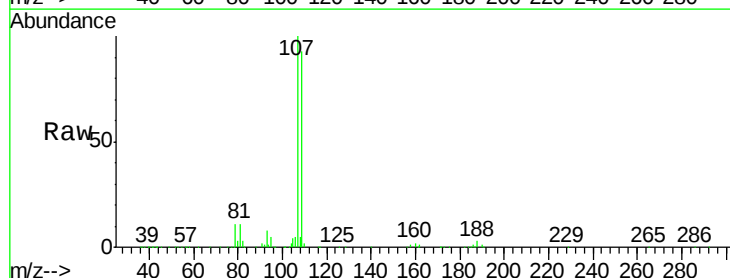
Acq: 30 Jan 2020 15:57

Tgt Ion: 107 Resp: 2047443

Ion Ratio Lower Upper

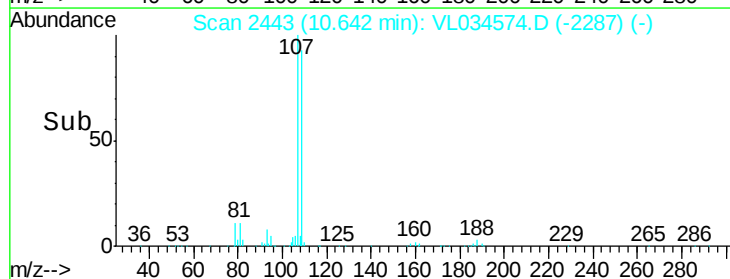
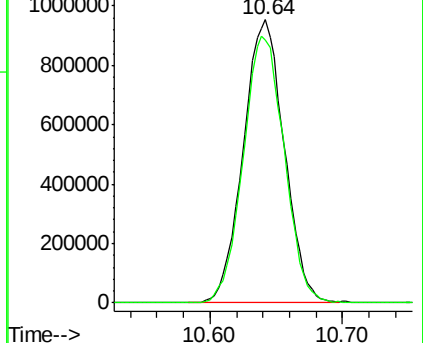
107 100

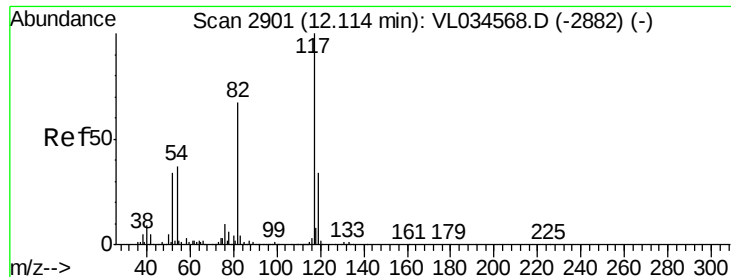
109 92.8 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





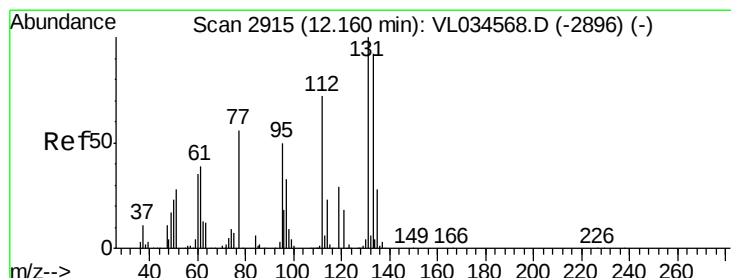
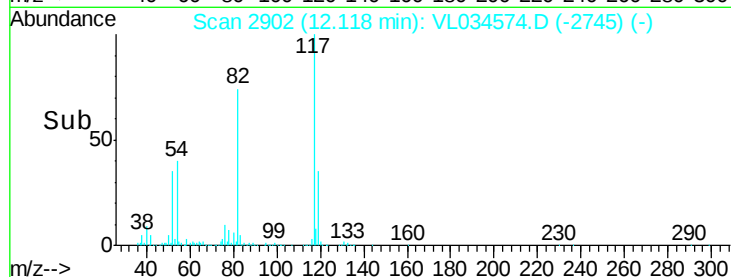
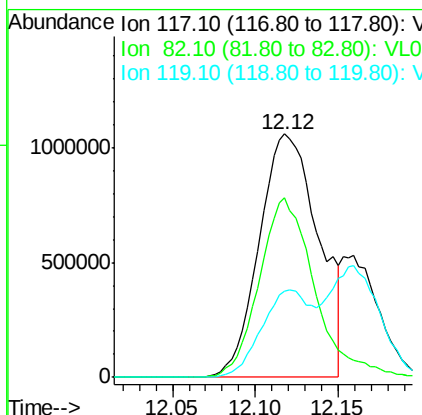
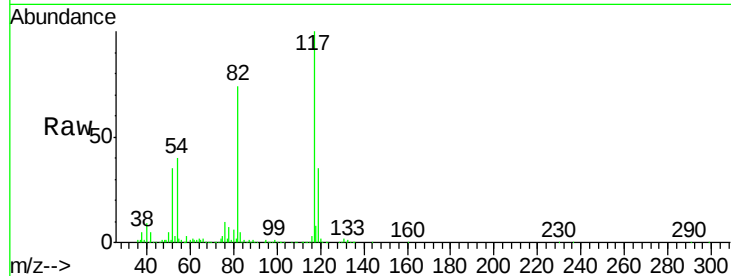
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.1	56.2	84.4
119	26.0	27.1	40.7#

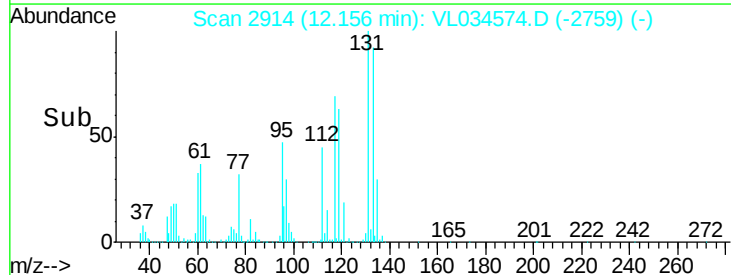
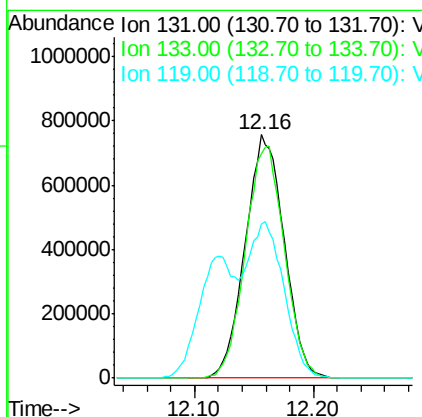
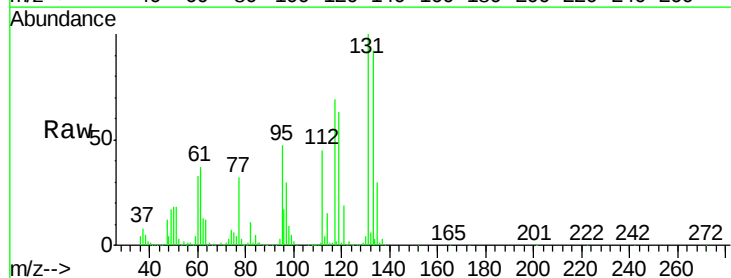
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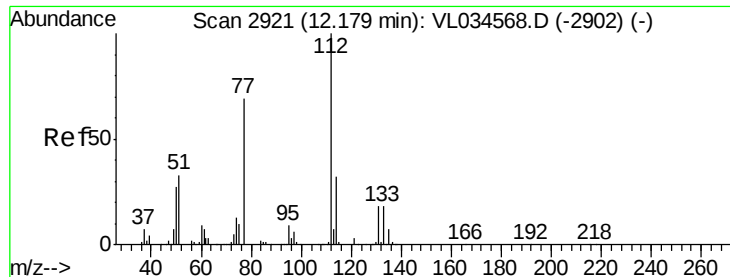
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#56
1,1,1,2-Tetrachloroethane
Concen: 13.403 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.1	76.2	114.2
119	64.9	47.1	70.7





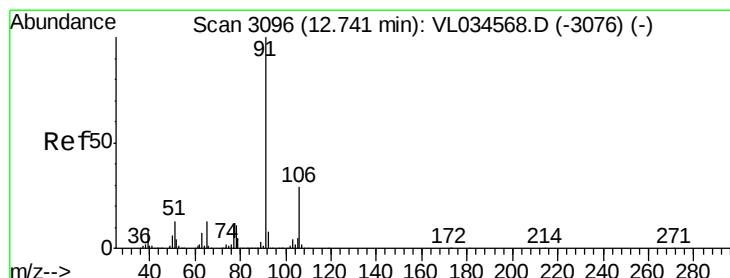
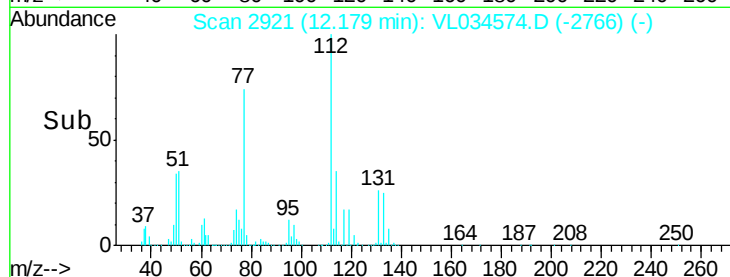
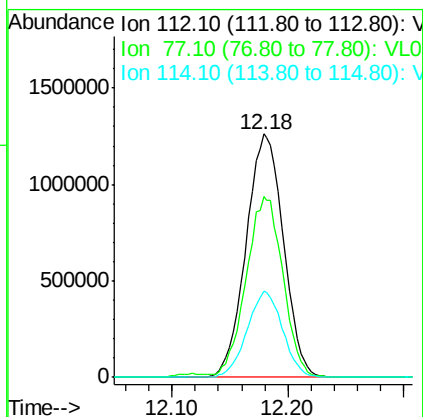
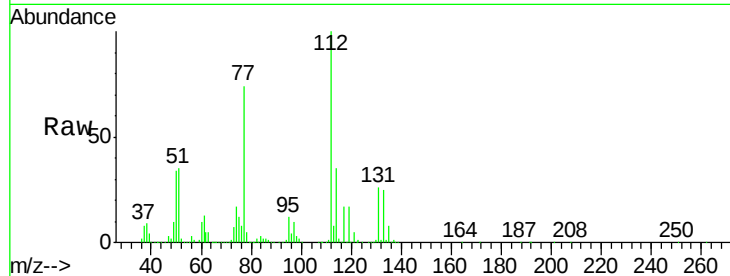
#57
Chlorobenzene
Concen: 12.959 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	73.9	57.4	86.0
114	35.3	28.4	34.8

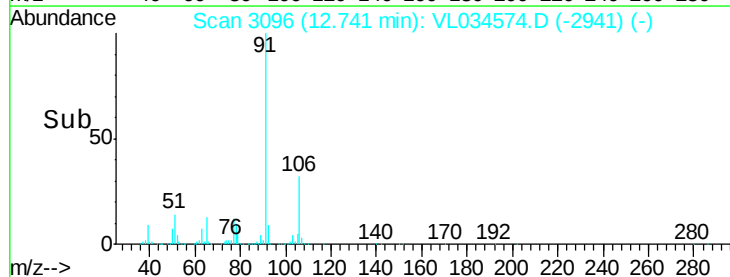
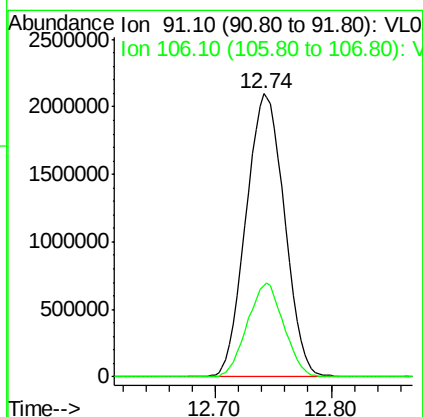
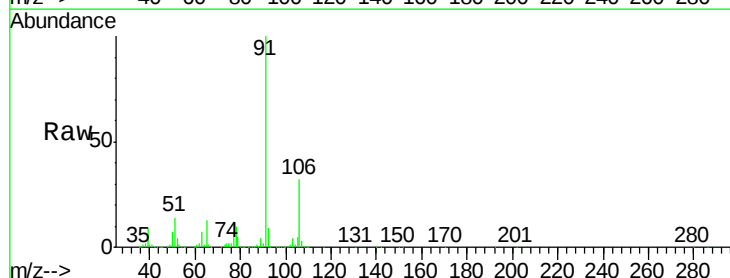
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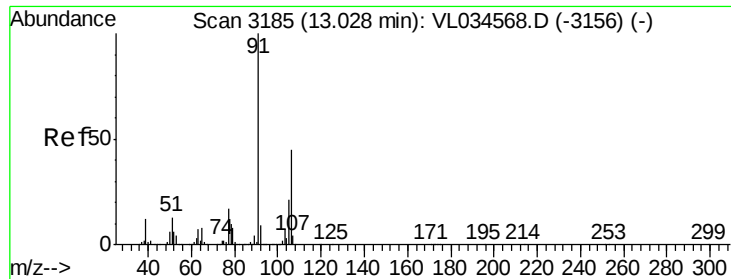
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#58
Ethyl Benzene
Concen: 13.585 ppbv
RT: 12.74 min Scan# 3096
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.3	24.6	36.8





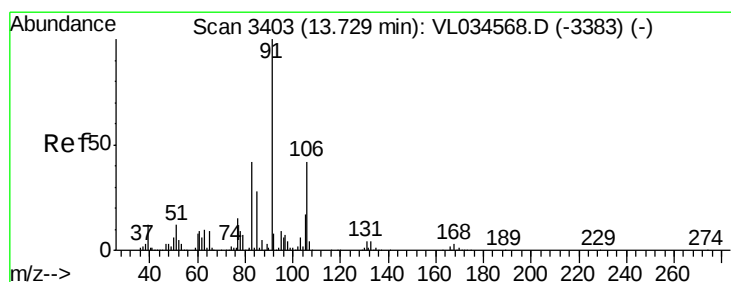
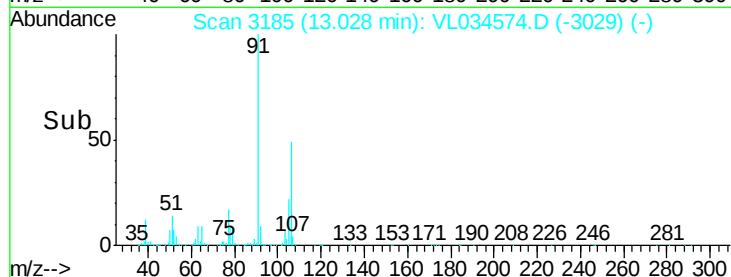
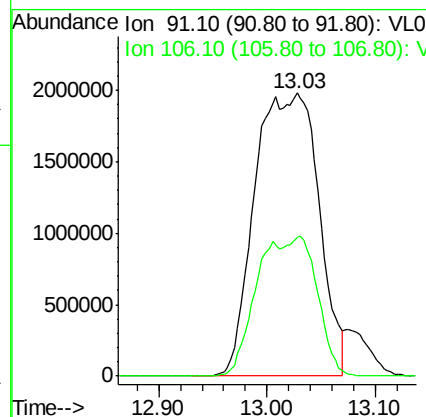
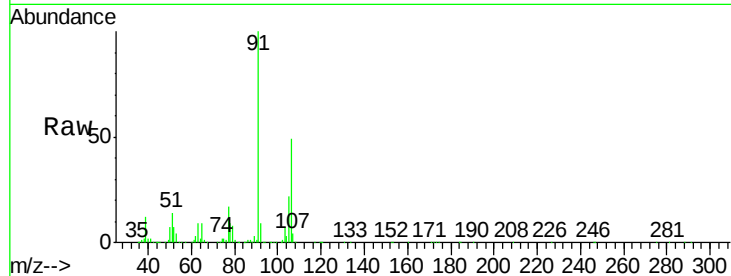
#59
m/p-Xylene
Concen: 25.973 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 8093766
Ion Ratio Lower Upper
91 100
106 46.3 35.6 53.4

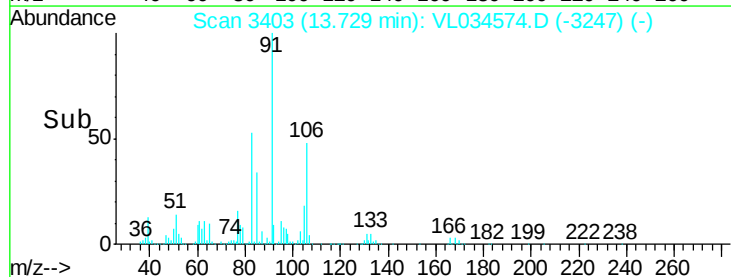
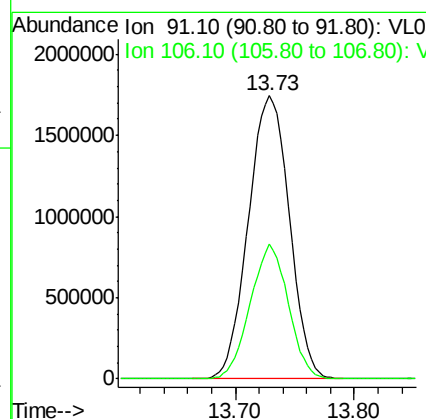
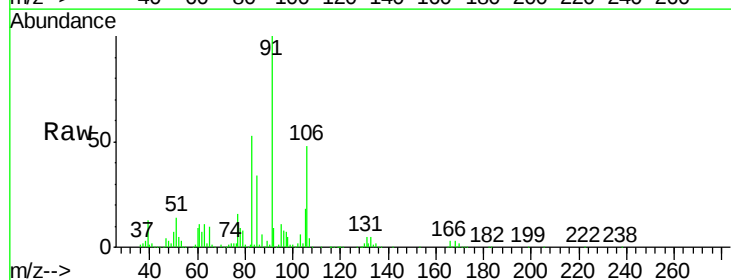
Manual Integrations
APPROVED

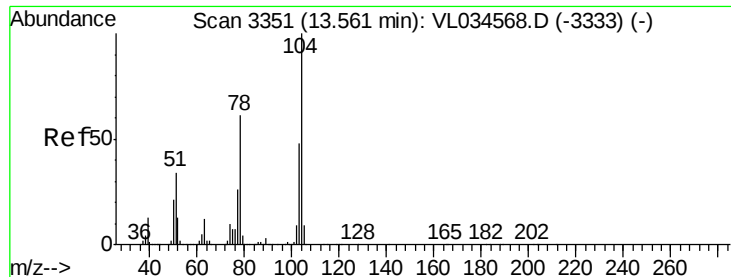
MMDadoda
1/31/2020 4:25:25 PM



#60
o-Xylene
Concen: 13.331 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion: 91 Resp: 4168438
Ion Ratio Lower Upper
91 100
106 44.0 21.4 64.3





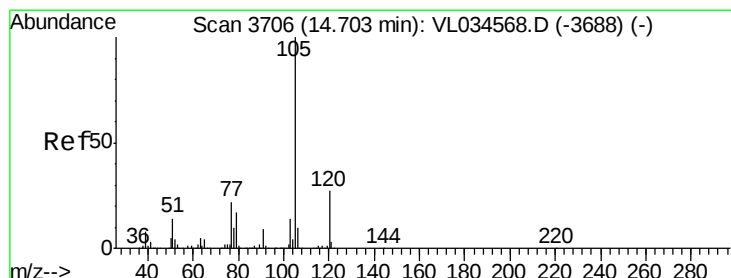
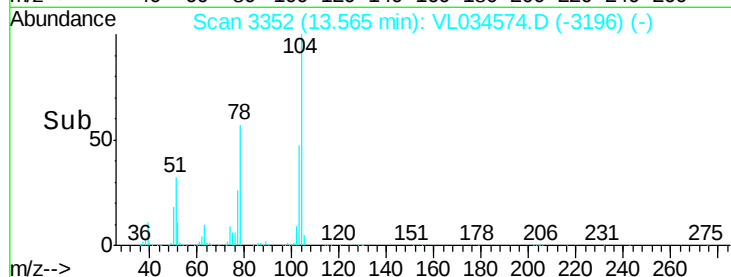
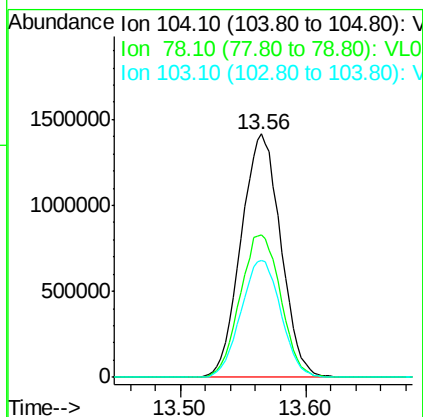
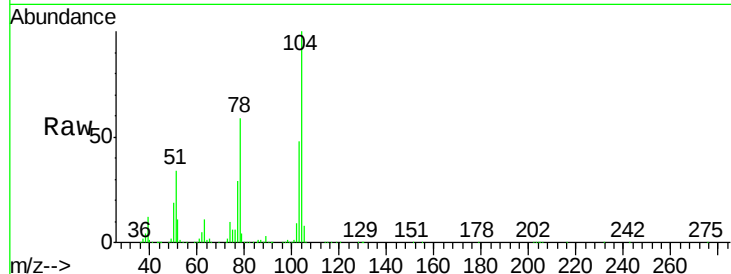
#61
Stvrene
Concen: 14.562 ppbv
RT: 13.56 min Scan# 3352
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.1	47.7	71.5
103	48.4	38.6	58.0

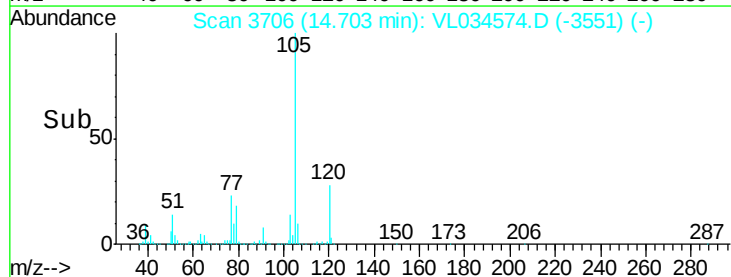
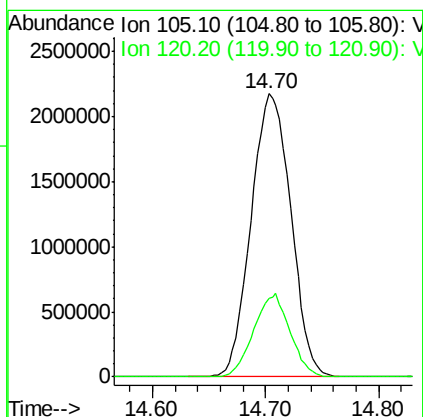
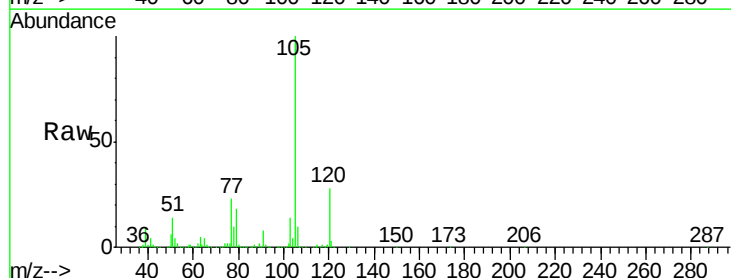
Manual Integrations
APPROVED

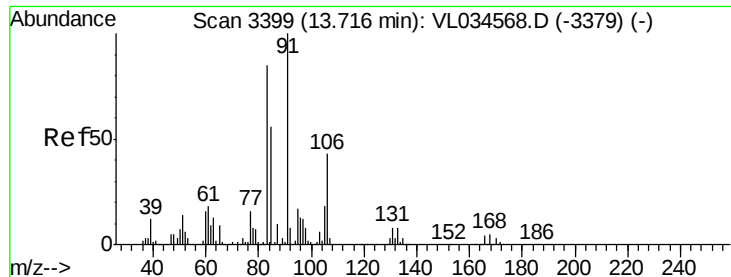
MMDadoda
1/31/2020 4:25:25 PM



#62
Isopropylbenzene
Concen: 12.983 ppbv
RT: 14.70 min Scan# 3706
Delta R.T. -0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	20.6	30.8





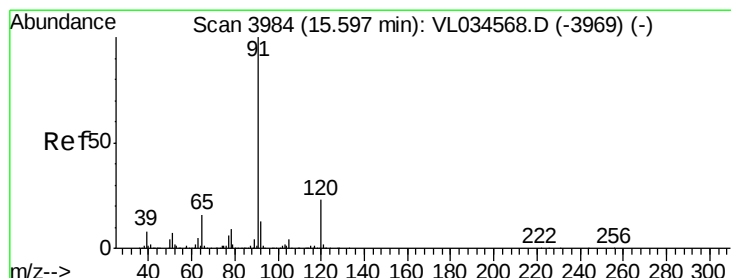
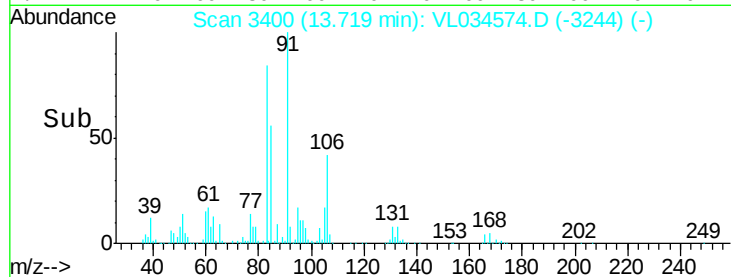
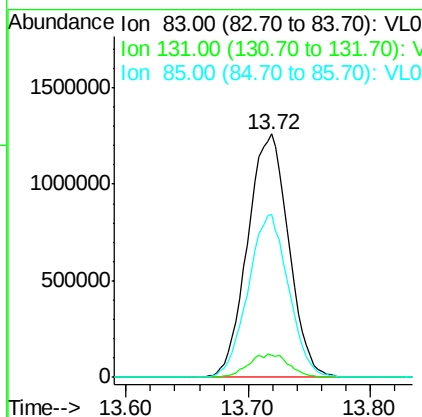
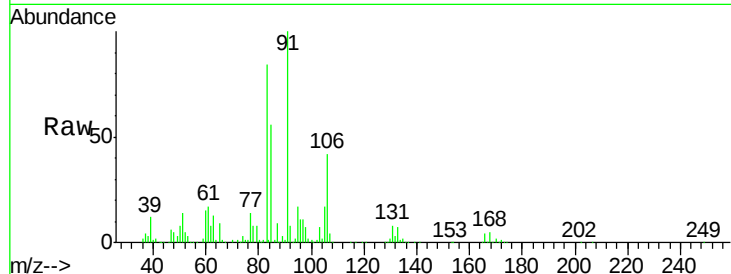
#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.680 ppbv
 RT: 13.72 min Scan# 3400
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 2929933
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.8 14.4
 85 65.9 32.5 97.4

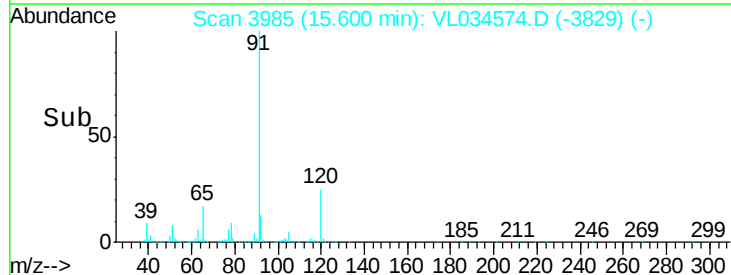
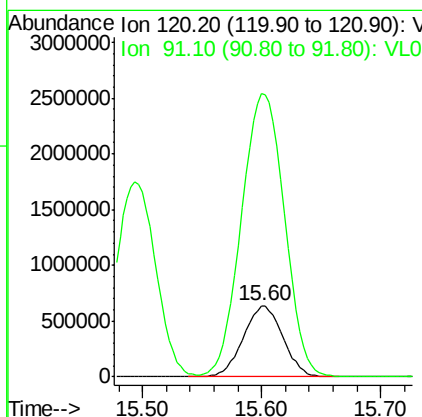
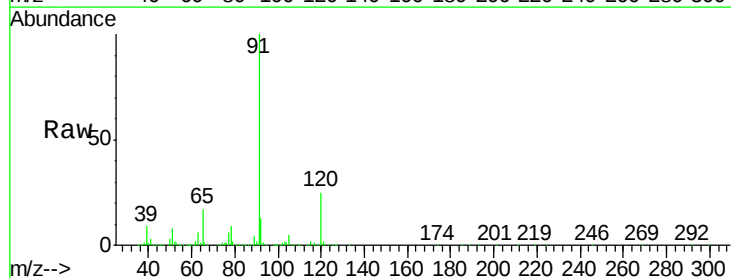
Manual Integrations
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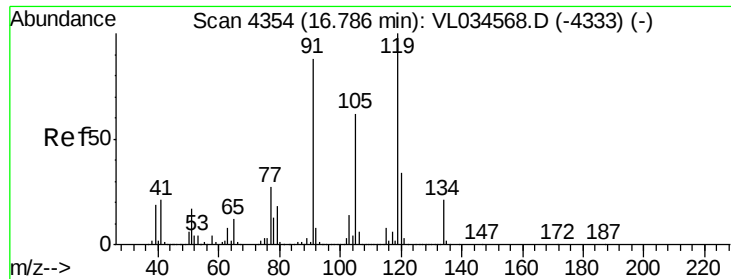
MMDadoda
 1/31/2020 4:25:25 PM



#64
 n-propylbenzene
 Concen: 14.026 ppbv
 RT: 15.60 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion:120 Resp: 1464993
 Ion Ratio Lower Upper
 120 100
 91 434.3 375.6 563.4





#65

tert-Butylbenzene

Concen: 13.020 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 4811330

Ion Ratio Lower Upper

119 100

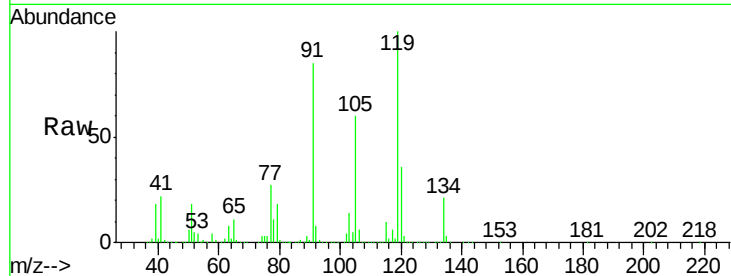
91 89.3 72.0 108.0

134 20.7 16.1 24.1

Manual Integrations
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MMDadoda

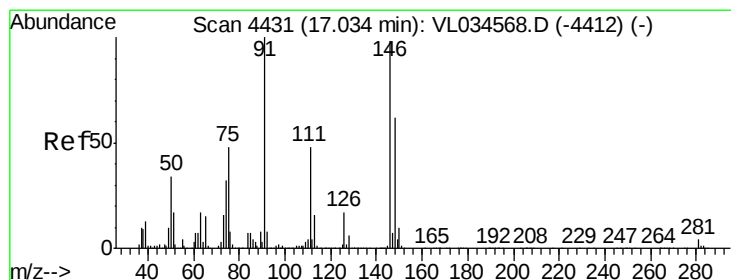
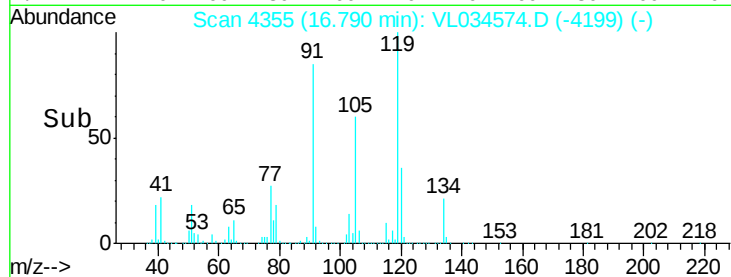
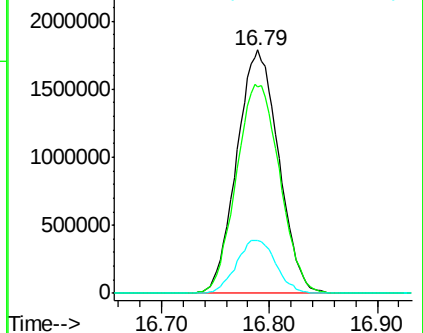
1/31/2020 4:25:25 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 15.430 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

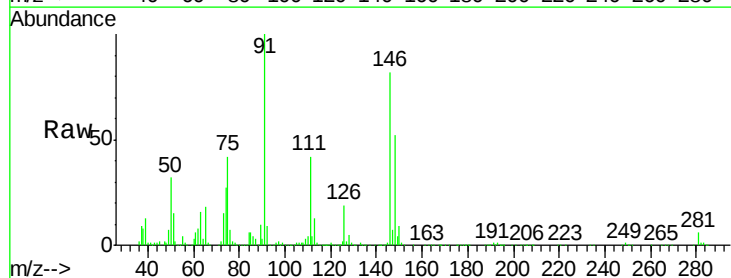
Tgt Ion: 91 Resp: 2498973

Ion Ratio Lower Upper

91 100

126 17.0 13.1 19.7

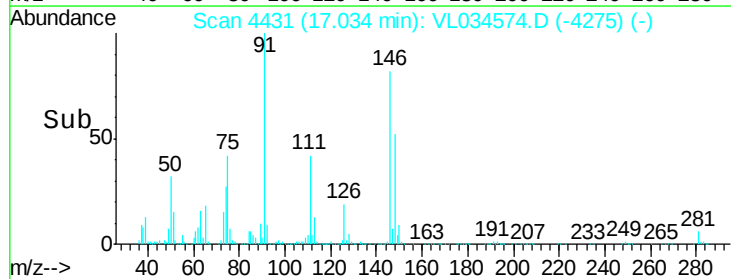
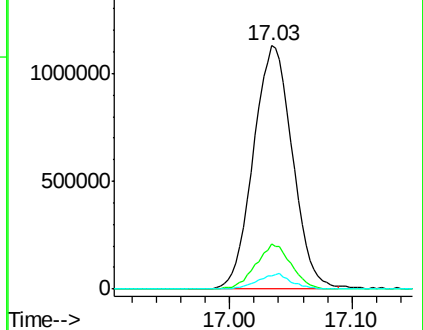
128 5.4 4.2 6.4

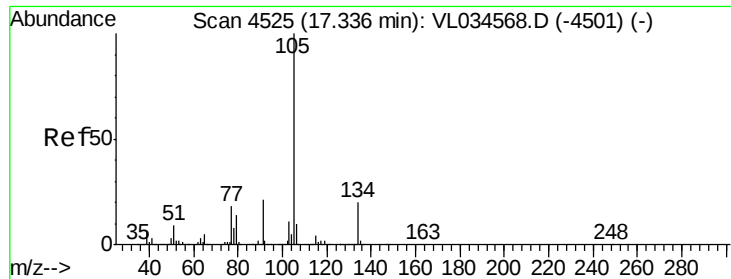


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 12.311 ppbv

RT: 17.34 min Scan# 4526

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 6389028

Ion Ratio Lower Upper

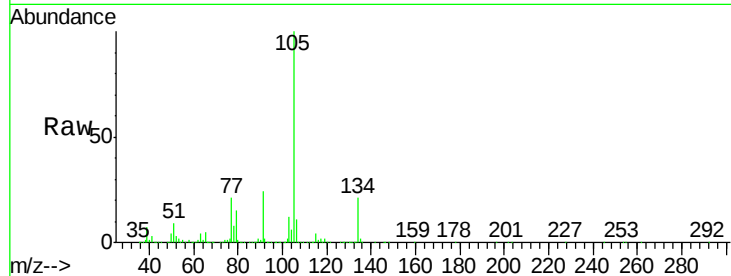
105 100

134 19.9 15.1 22.7

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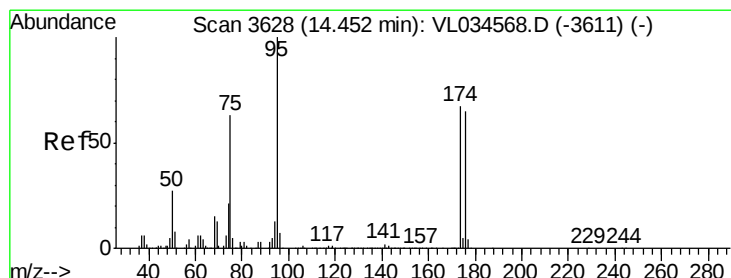
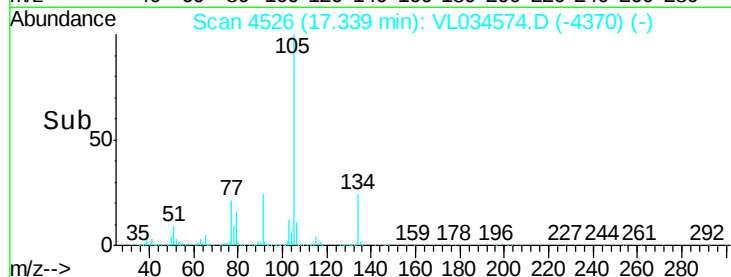
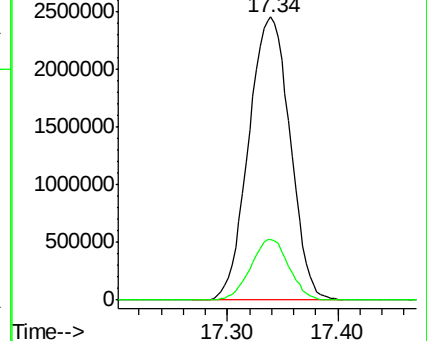
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.774 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

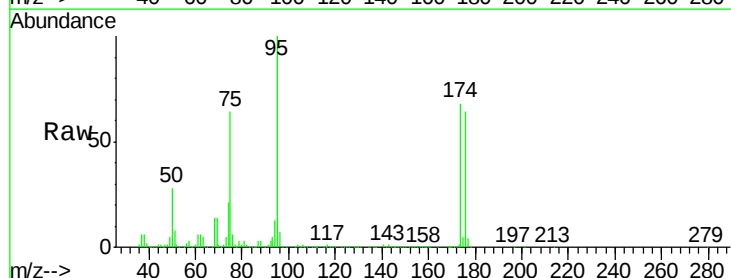
Tgt Ion: 95 Resp: 2155139

Ion Ratio Lower Upper

95 100

174 65.6 52.4 78.6

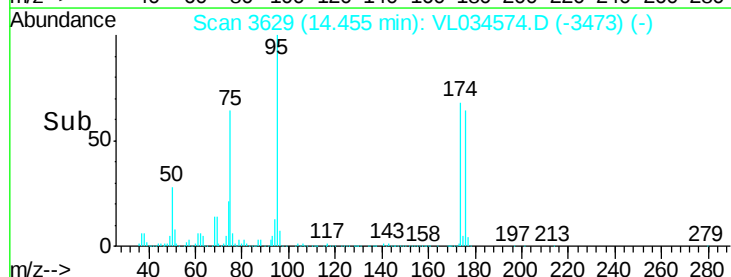
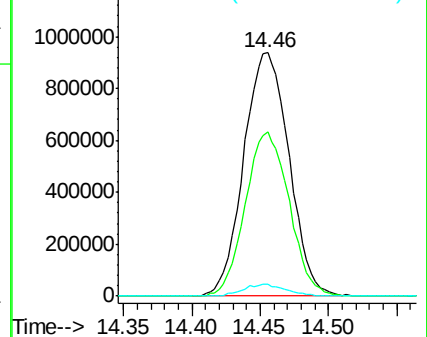
175 4.6 3.9 5.9

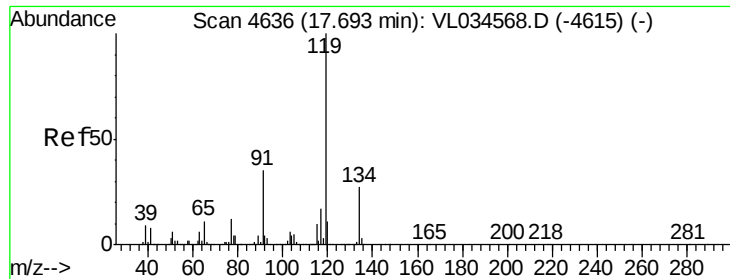


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





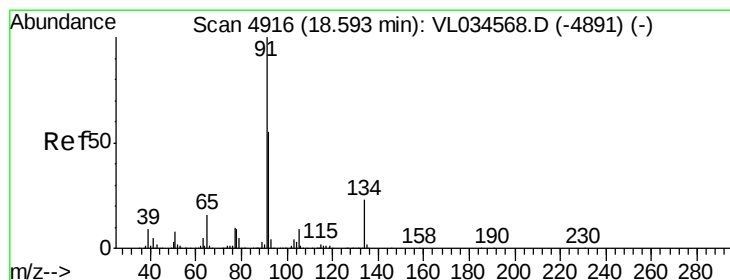
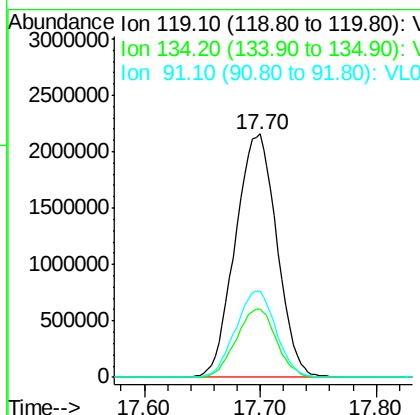
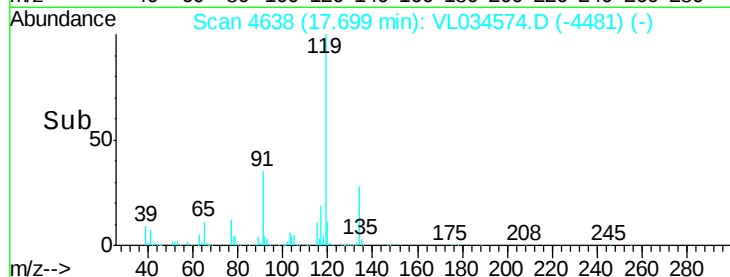
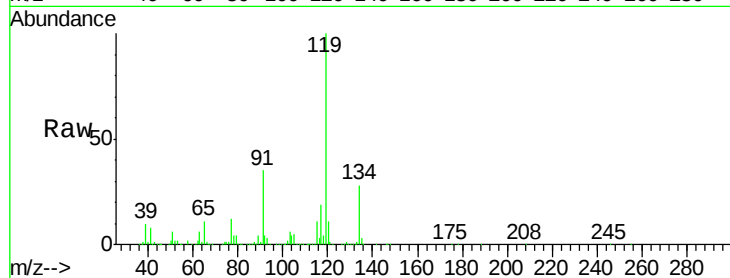
#69
p-Isopropyltoluene
Concen: 12.707 ppbv
RT: 17.70 min Scan# 4638
Delta R.T. 0.01 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.2	20.7	31.1
91	34.7	26.6	39.8

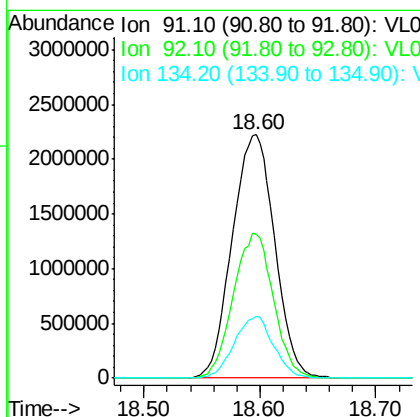
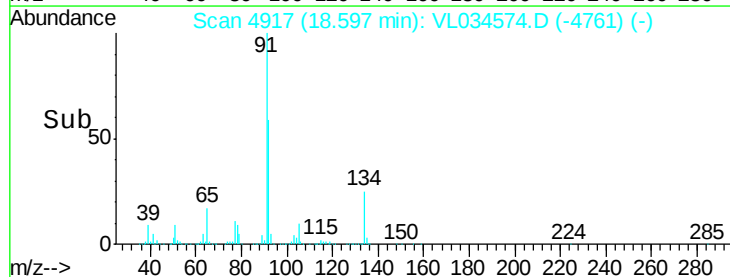
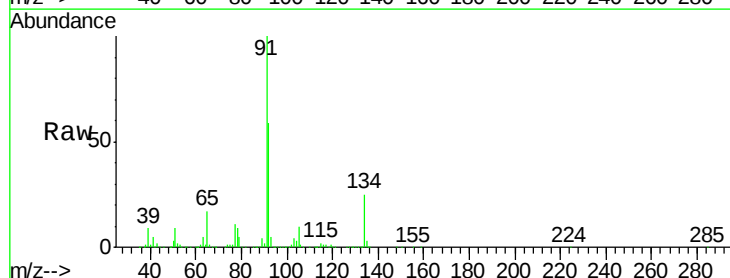
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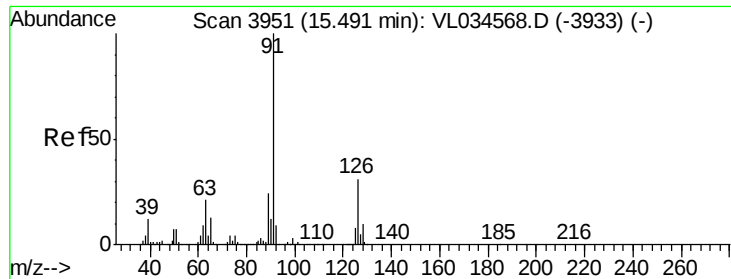
MMDadoda
1/31/2020 4:25:25 PM



#70
n-Butylbenzene
Concen: 12.371 ppbv
RT: 18.60 min Scan# 4917
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	43.8	65.6
134	23.6	18.0	27.0





#71

2-Chlorotoluene

Concen: 13.140 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4173804

Ion Ratio Lower Upper

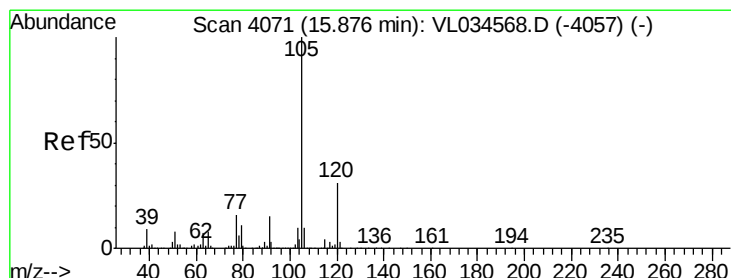
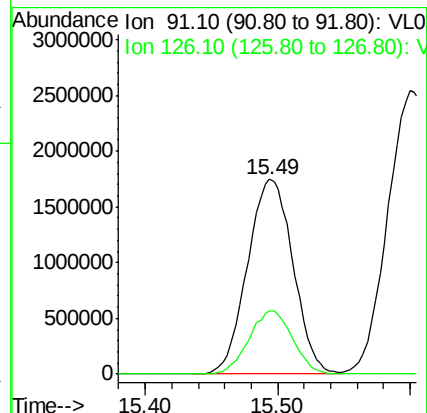
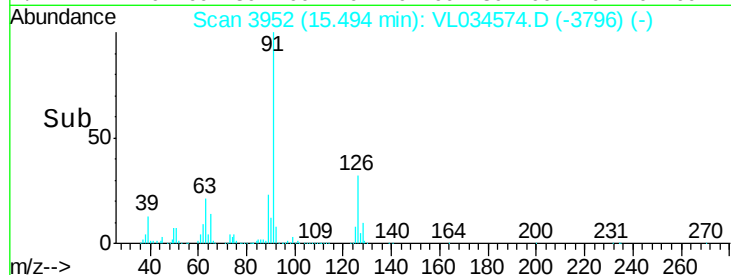
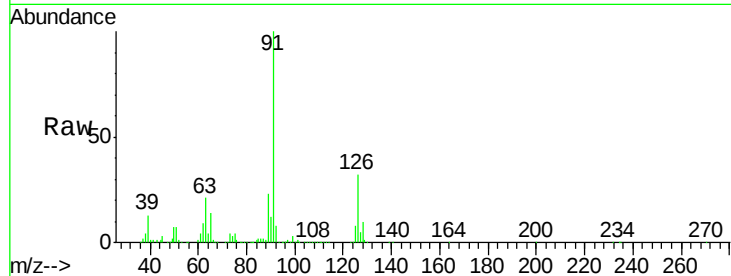
91 100

126 31.3 12.0 47.8

Manual Integrations
APPROVED

MMDadoda

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#72

4-Ethyltoluene

Concen: 13.447 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Tgt Ion:105 Resp: 4705254

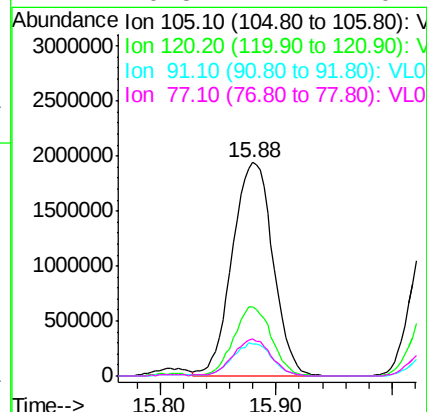
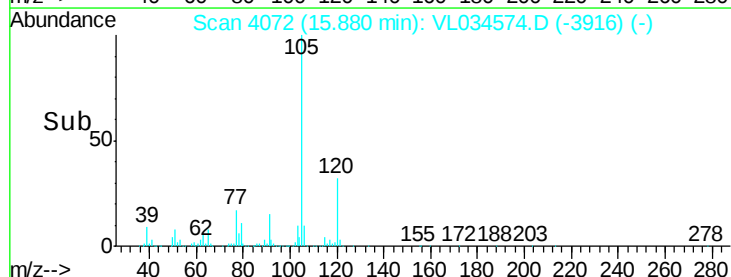
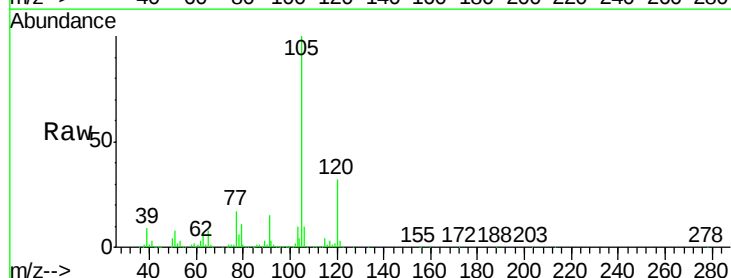
Ion Ratio Lower Upper

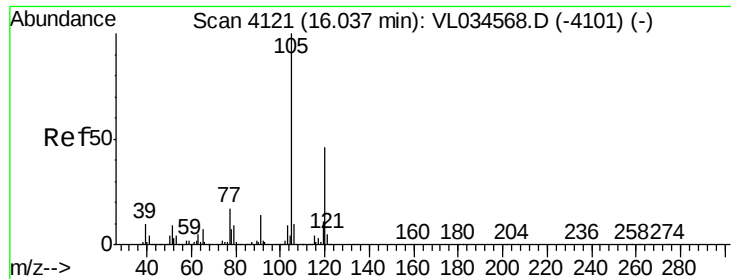
105 100

120 31.4 23.7 35.5

91 14.8 11.5 17.3

77 16.8 12.7 19.1





#73

1,3,5-Trimethylbenzene

Concen: 13.094 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 4495109

Ion Ratio Lower Upper

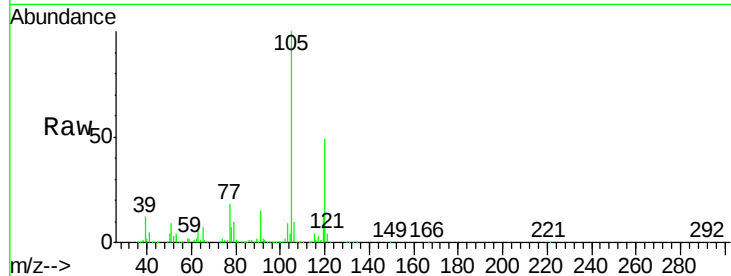
105 100

120 49.0 34.6 52.0

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

2000000

1500000

1000000

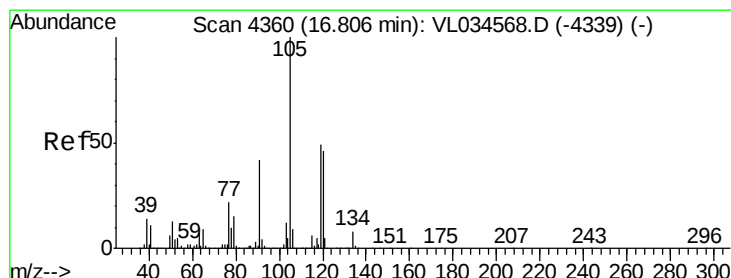
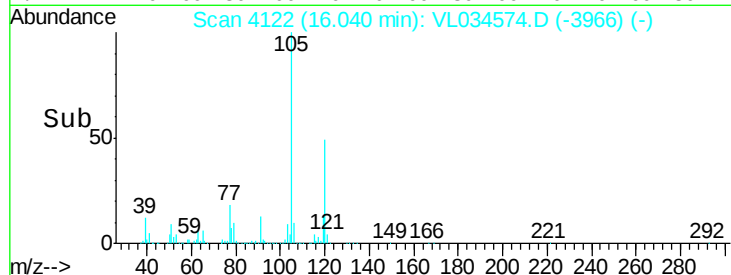
500000

0

16.04

16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 12.710 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Tgt Ion:105 Resp: 4667506

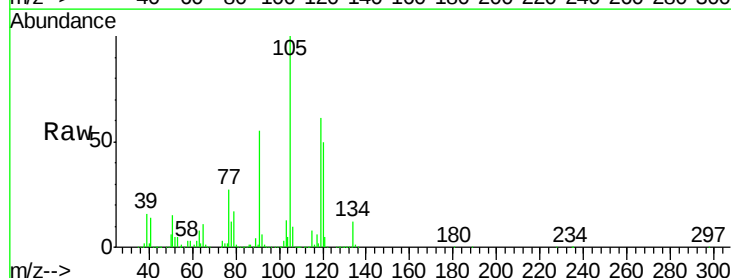
Ion Ratio Lower Upper

105 100

120 49.8 36.7 55.1

91 55.4 44.0 66.0

77 26.6 19.9 29.9



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

3000000

2500000

2000000

1500000

1000000

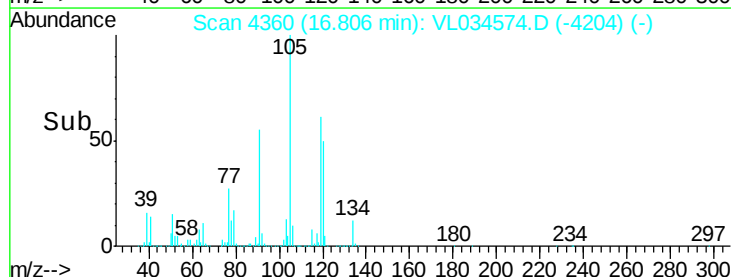
500000

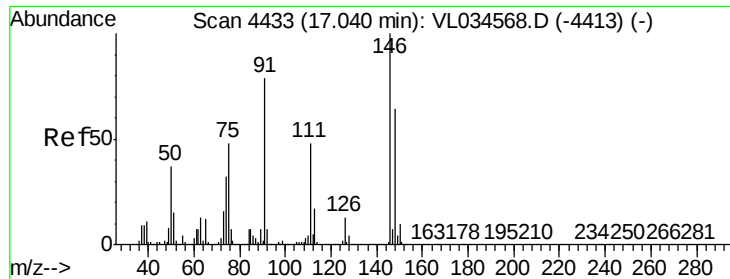
0

16.81

16.90

Time-->





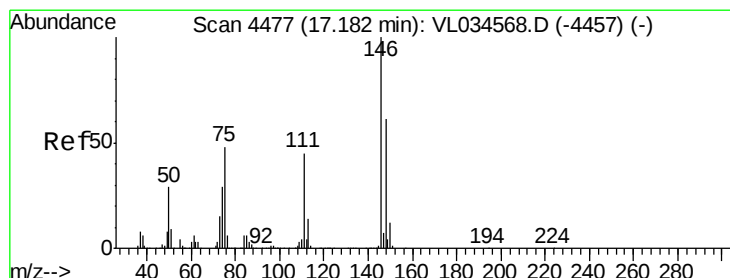
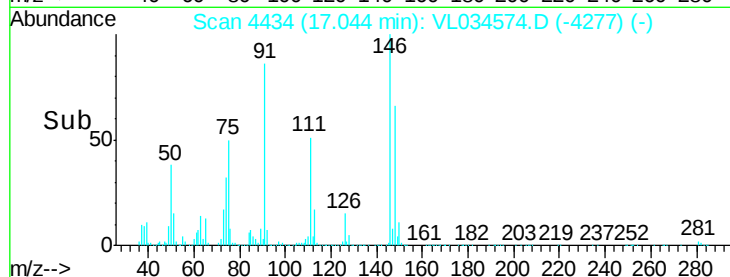
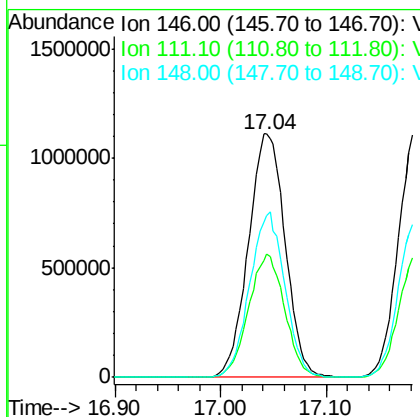
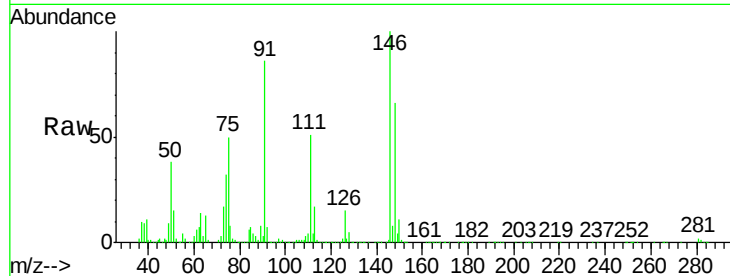
#75
 1,3-Dichlorobenzene
 Concen: 12.266 ppbv
 RT: 17.04 min Scan# 4434
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 2698035
 Ion Ratio Lower Upper
 146 100
 111 49.7 25.1 75.3
 148 64.9 33.0 99.0

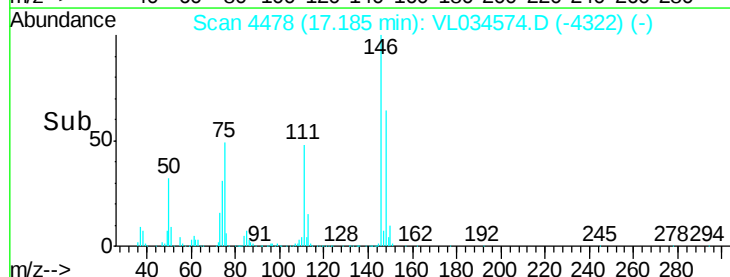
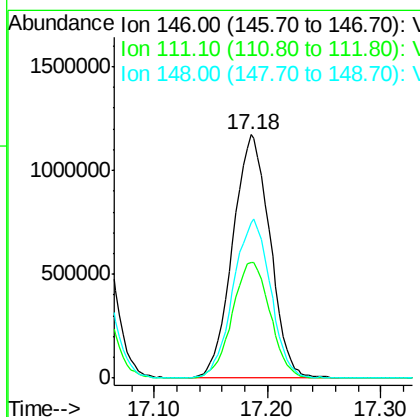
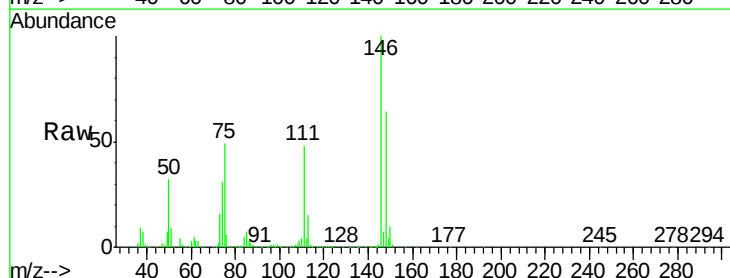
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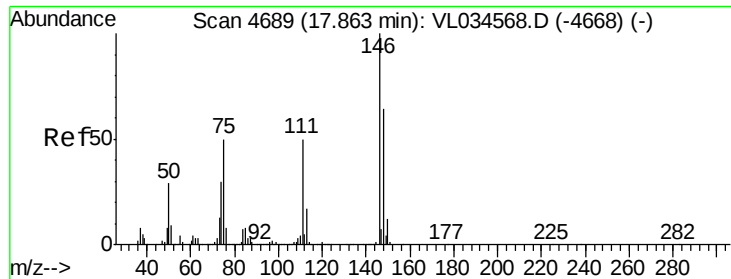
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#76
 1,4-Dichlorobenzene
 Concen: 12.606 ppbv
 RT: 17.18 min Scan# 4478
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Tgt Ion:146 Resp: 2669599
 Ion Ratio Lower Upper
 146 100
 111 48.7 23.5 70.6
 148 65.9 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 12.446 ppbv

RT: 17.87 min Scan# 4690

Delta R.T. 0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2572704

Ion Ratio Lower Upper

146 100

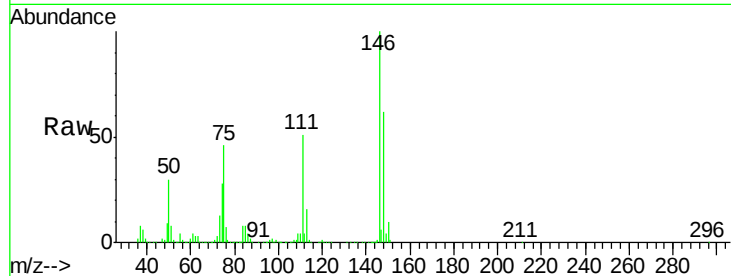
111 50.6 25.3 75.8

148 65.0 32.1 96.3

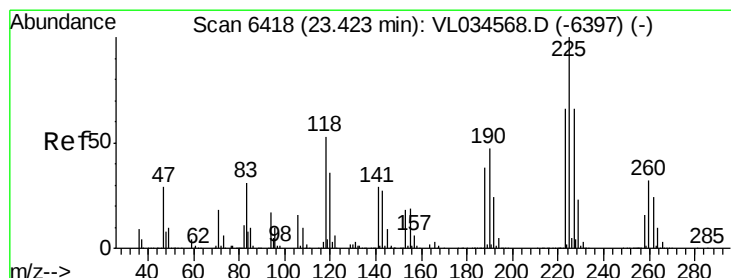
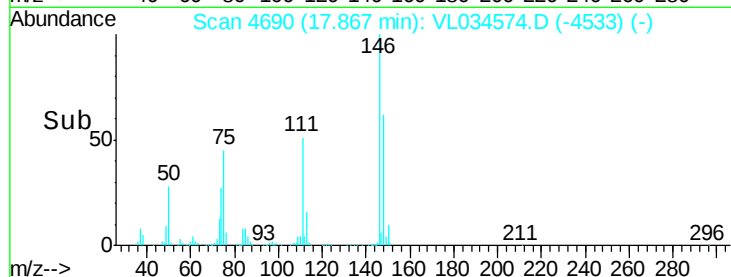
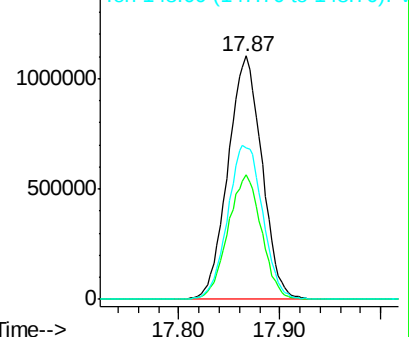
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 12.155 ppbv

RT: 23.42 min Scan# 6418

Delta R.T. -0.00 min

Lab File: VL034574.D

Acq: 30 Jan 2020 15:57

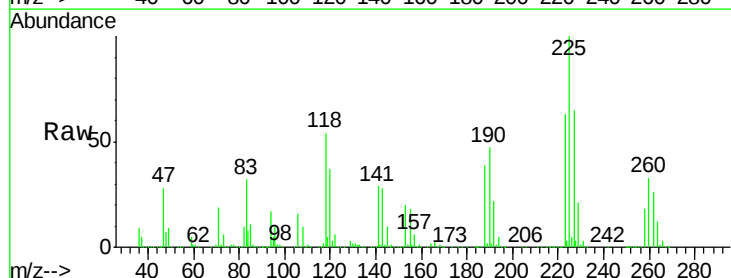
Tgt Ion:225 Resp: 2385012

Ion Ratio Lower Upper

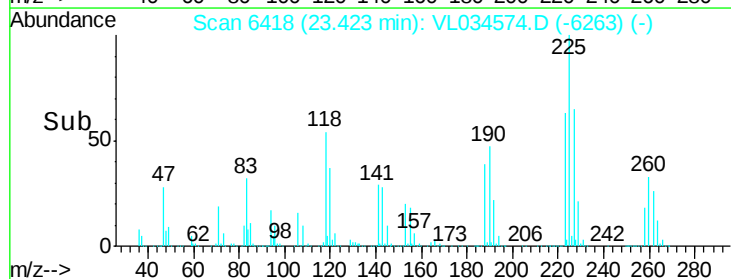
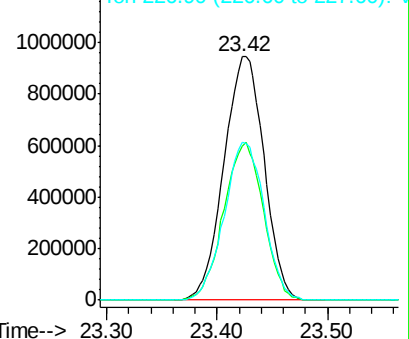
225 100

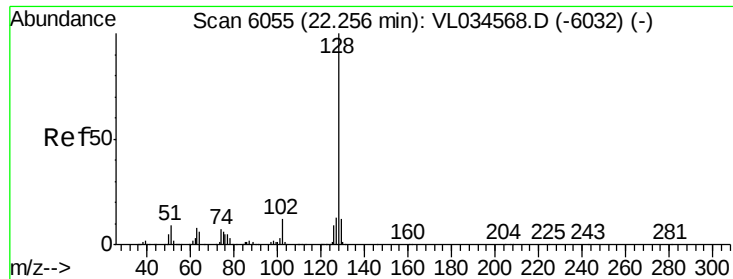
223 63.7 51.0 76.6

227 64.4 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





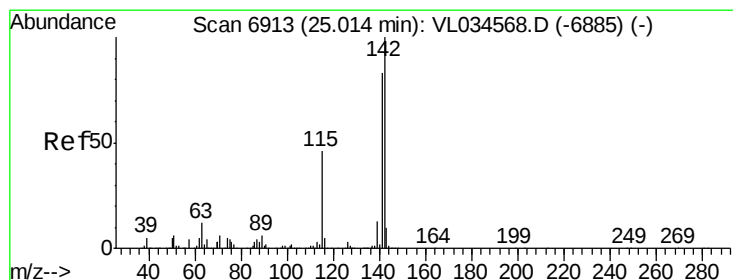
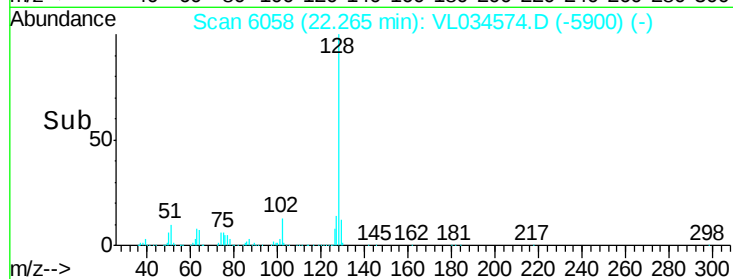
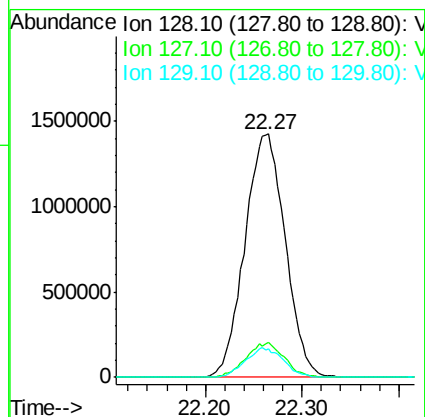
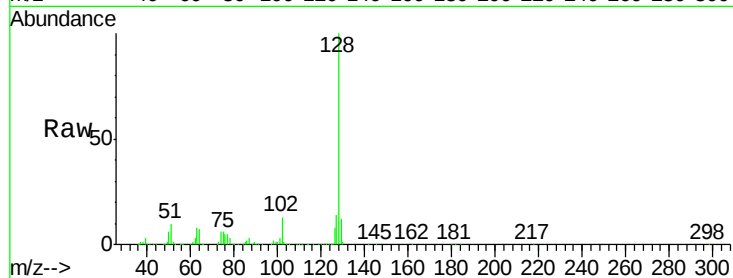
#79
Naphthalene
Concen: 14.927 ppbv
RT: 22.27 min Scan# 6058
Delta R.T. 0.01 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:128 Resp: 4128962
Ion Ratio Lower Upper
128 100
127 14.4 10.6 15.8
129 11.8 8.7 13.1

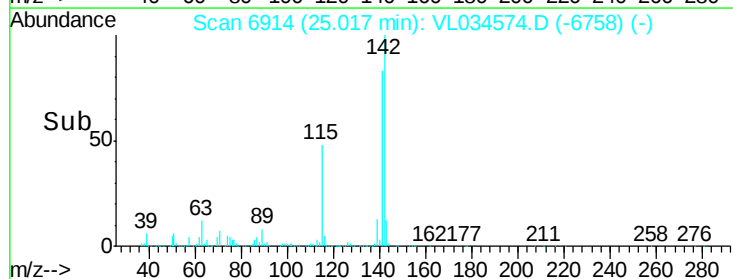
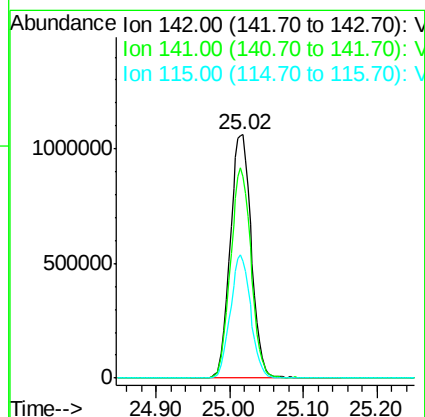
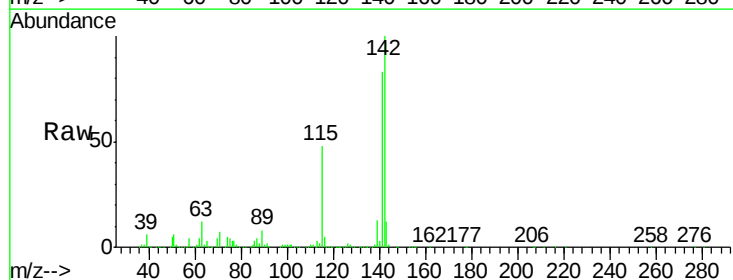
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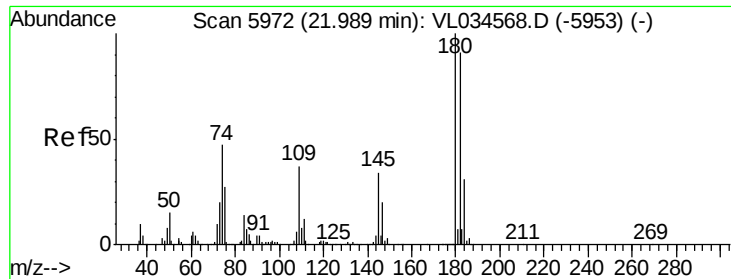
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#80
Naphthalene, 2-methyl-
Concen: 27.455 ppbv
RT: 25.02 min Scan# 6914
Delta R.T. 0.00 min
Lab File: VL034574.D
Acq: 30 Jan 2020 15:57

Tgt Ion:142 Resp: 2103684
Ion Ratio Lower Upper
142 100
141 83.9 65.8 98.8
115 48.7 30.4 45.6#





#81
 1,2,4-Trichlorobenzene
 Concen: 13.862 ppbv
 RT: 21.99 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL034574.D
 Acq: 30 Jan 2020 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	77.8	116.8
184	31.5	25.2	37.8

Manual Integrations
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