

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034847.D
 Acq On : 9 Mar 2020 16:09
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:26:08 PM

Quant Time: Mar 09 16:41:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:41:39 2020
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	923566	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2138419	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2290762	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1741401	9.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1243332	8.249	ppbv 97
3) Chlorodifluoromethane	2.94	51	1390153	13.212	ppbv 99
4) Chloromethane	3.10	50	813786	14.359	ppbv 98
5) Vinyl Chloride	3.22	62	776893	12.976	ppbv 92
6) Bromomethane	3.44	94	449231	13.747	ppbv 98
7) Chloroethane	3.52	64	288242	13.923	ppbv 94
8) Dichlorotetrafluoroethane	3.15	85	1648298	12.589	ppbv 99
9) Propene	2.97	41	673057	16.251	ppbv 99
10) Heptane	8.13	43	1747239	16.600	ppbv 100
11) Trichlorofluoromethane	3.92	101	1752926	12.997	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1243795	13.366	ppbv 99
13) Ethanol	3.57	45	190471	13.423	ppbv 92
14) Bromoethene	3.71	108	563140	14.748	ppbv 99
15) Acetone	3.82	43	1436289	12.987	ppbv 99
16) 1,3-Butadiene	3.29	39	755614	15.100	ppbv 98
17) tert-Butyl alcohol	4.27	59	1653446	18.960	ppbv 100
18) 1,1-Dichloroethene	4.26	96	565434	13.778	ppbv 99
19) Isopropyl Alcohol	3.94	45	1096673	16.550	ppbv # 39
20) Methylene Chloride	4.32	84	495857	12.562	ppbv 91
21) Allyl Chloride	4.39	41	1066997	15.235	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	578829	14.448	ppbv 97
23) Vinyl Acetate	5.06	43	2465690	16.626	ppbv 99
24) 1,1-Dichloroethane	5.00	63	1596991	13.874	ppbv 100
25) Ethyl Acetate	5.66	43	2852694	14.926	ppbv 100
26) Hexane	5.67	57	1259940	15.091	ppbv 99
27) Carbon Disulfide	4.53	76	1515403	15.537	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	2097384	16.878	ppbv 98
29) Chloroform	5.75	83	1878482	13.366	ppbv 99
30) Cyclohexane	7.13	84	1095800	17.155	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	1306589	15.258	ppbv 99
32) 1,1,1-Trichloroethane	6.51	97	1889084	13.602	ppbv 98
34) 2-Butanone	5.23	43	1952324	14.033	ppbv 99
35) Carbon Tetrachloride	7.02	117	1945079	12.054	ppbv 97
36) Benzene	6.90	78	2576782	14.102	ppbv 98
37) 1,2-Dichloroethane	6.31	62	1484210	11.891	ppbv 100
38) Trichloroethene	7.84	130	991759	13.926	ppbv 97
39) 1,2-Dichloropropane	7.62	63	1036779	14.059	ppbv 98
40) 1,4-Dioxane	7.84	88	366787	14.381	ppbv # 96
41) Tetrahydrofuran	6.04	42	1132698	15.957	ppbv 99
42) Bromodichloromethane	7.80	83	2051266	12.989	ppbv 99
43) Methyl Methacrylate	8.02	69	1176187	15.190	ppbv 100

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 2020
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	4299434	13.464	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1460206	17.963	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1656887	16.692	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1072749	13.779	ppbv	98
48) Dibromochloromethane	10.33	129	1829159	15.025	ppbv	99
49) Bromoform	13.08	173	1675810	15.775	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2886040	14.478	ppbv	100
51) 2-Hexanone	10.15	43	2430544	15.544	ppbv #	100
52) Tetrachloroethene	11.25	164	960831	14.232	ppbv	94
53) Toluene	9.83	91	3043738	15.738	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1644548	14.285	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1359264	13.392	ppbv	96
57) Chlorobenzene	12.18	112	2264646	12.942	ppbv	99
58) Ethyl Benzene	12.74	91	4042558	14.320	ppbv	99
59) m/p-Xylene	13.03	91	6589466m	26.965	ppbv	
60) o-Xylene	13.73	91	3185599	12.884	ppbv	99
61) Styrene	13.56	104	2511123	16.371	ppbv	99
62) Isopropylbenzene	14.71	105	4851154	13.331	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	2229396	11.438	ppbv	99
64) n-propylbenzene	15.60	120	1339018	14.675	ppbv	93
65) tert-Butylbenzene	16.79	119	4223866	13.735	ppbv	99
66) Benzyl Chloride	17.04	91	2071483	20.835	ppbv	100
67) sec-Butylbenzene	17.34	105	5938376	13.252	ppbv	99
69) p-Isopropyltoluene	17.70	119	5095890	14.052	ppbv	99
70) n-Butylbenzene	18.59	91	5200582	13.115	ppbv	98
71) 2-Chlorotoluene	15.49	91	3761605	13.686	ppbv	99
72) 4-Ethyltoluene	15.88	105	3984727	14.475	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	3732209	14.134	ppbv	100
74) 1,2,4-Trimethylbenzene	16.81	105	3745572	13.048	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	2230645	13.127	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	2284950	14.052	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	2206709	13.575	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	1938070	14.286	ppbv	100
79) Naphthalene	22.26	128	4003264	18.557	ppbv	97
80) Naphthalene, 2-methyl-	25.01	142	1823982	35.401	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	2295420	16.832	ppbv	100

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

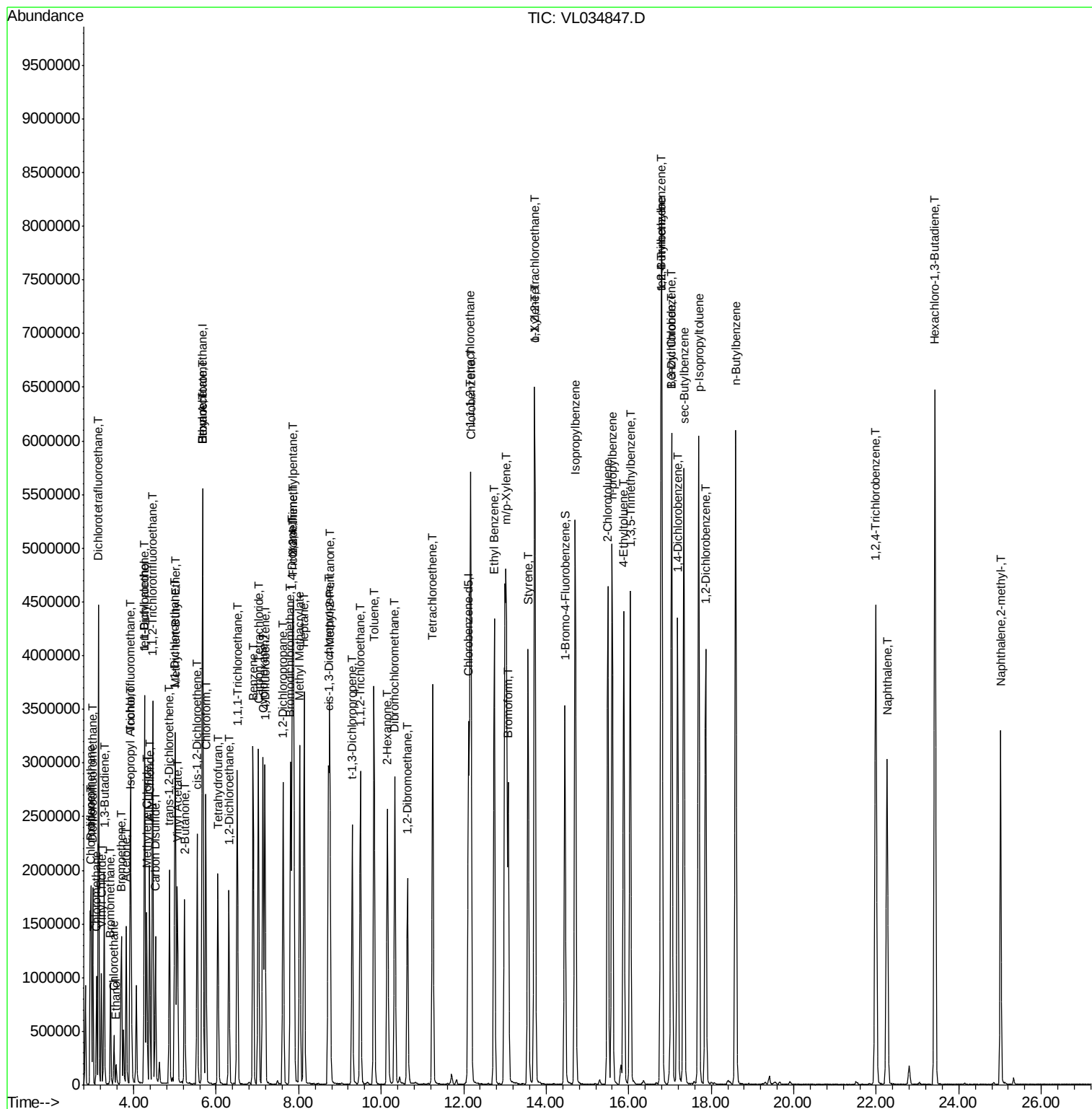
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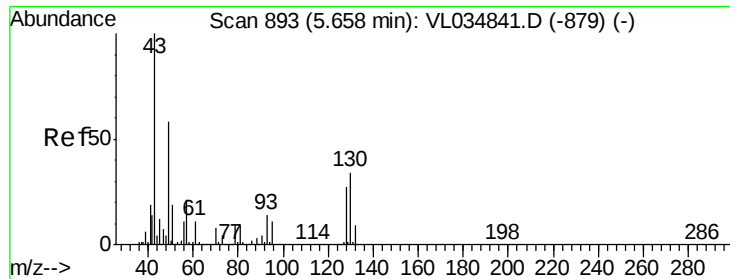
Instrument :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 15:34:13 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

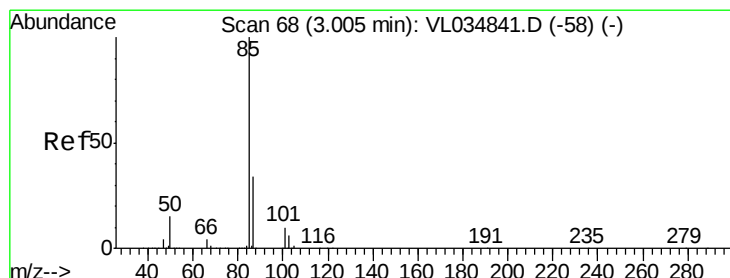
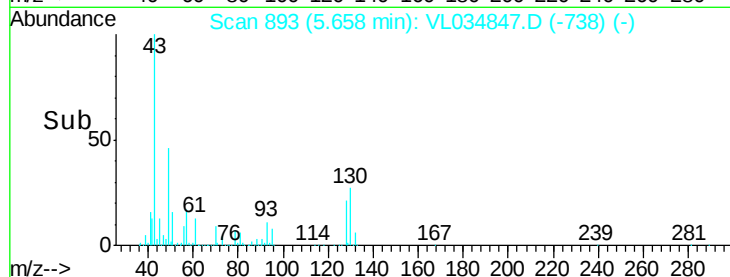
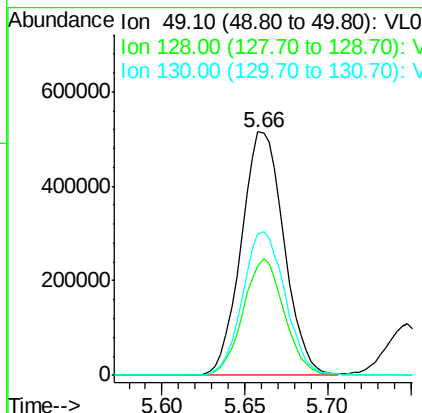
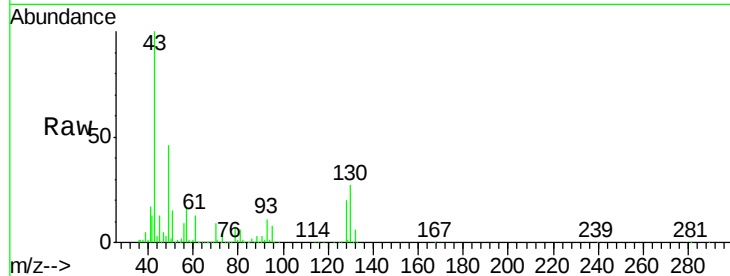
ClientSampleId :

VSTDIC015

Tot Ion:	49	Resp:	923566
Ion	Ratio	Lower	Upper
49	100		
128	46.2	23.4	70.3
130	59.2	30.0	90.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 8.249 ppbv

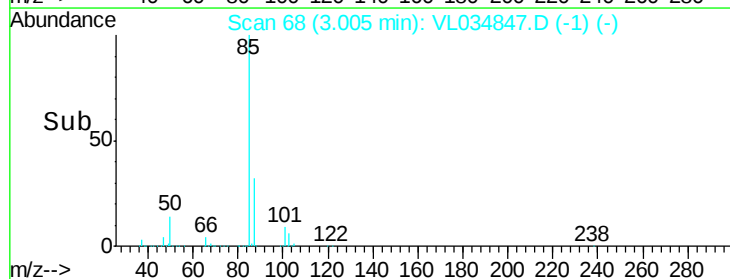
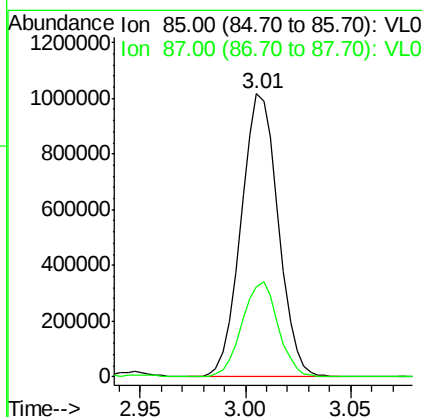
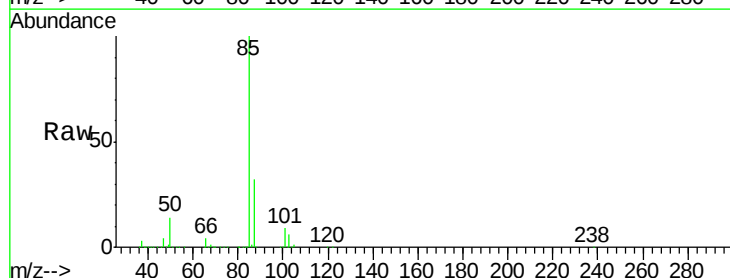
RT: 3.01 min Scan# 68

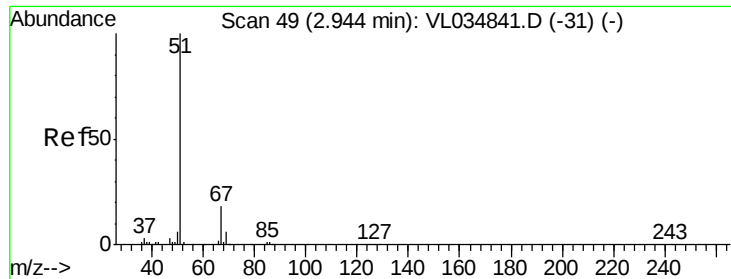
Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Tgt Ion:	85	Resp:	1243332
Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.9	40.3





#3

Chlorodifluoromethane

Concen: 13.212 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1390153

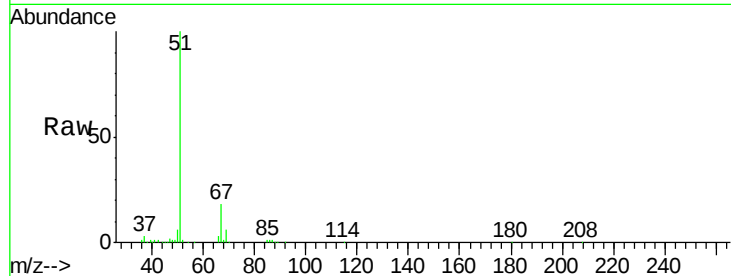
Ion Ratio Lower Upper

51 100

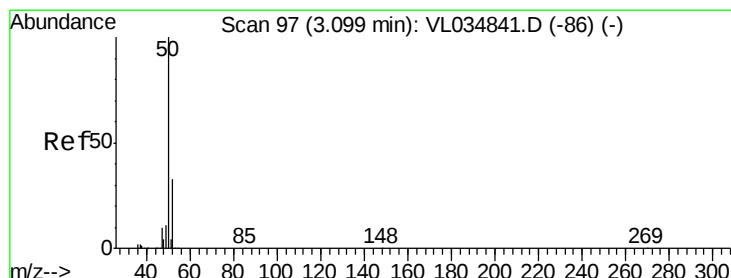
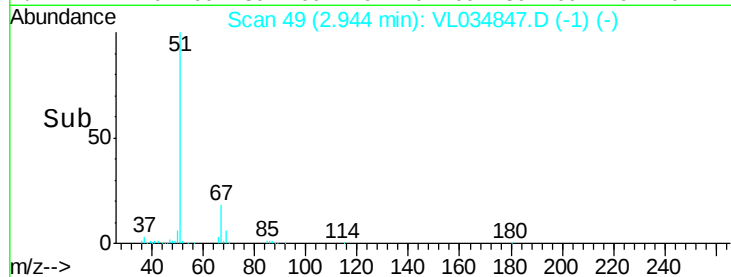
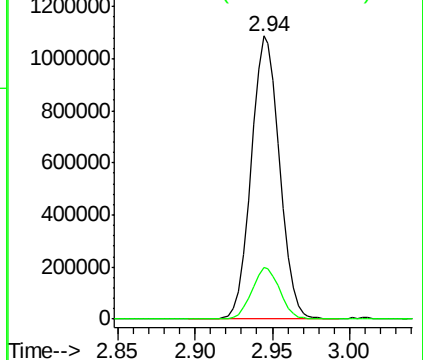
67 18.1 14.3 21.5

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



#4

Chloromethane

Concen: 14.359 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034847.D

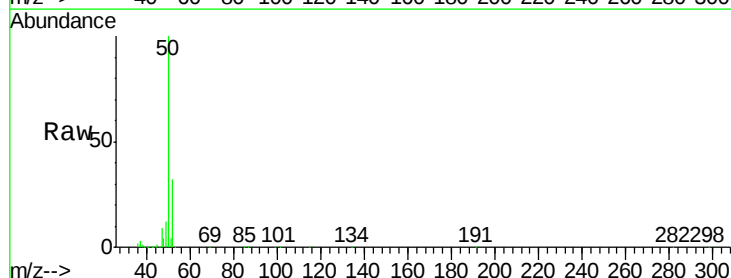
Acq: 9 Mar 2020 16:09

Tgt Ion: 50 Resp: 813786

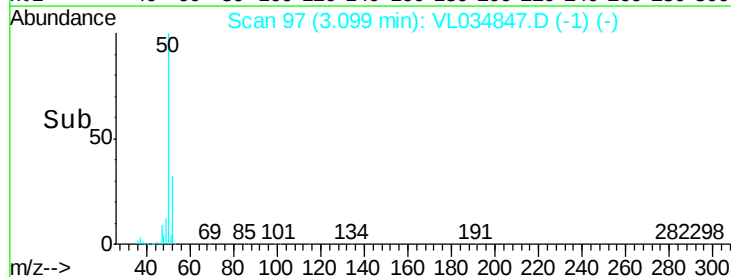
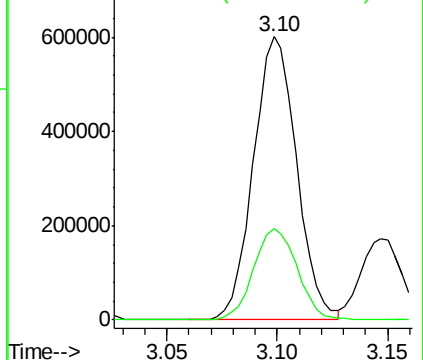
Ion Ratio Lower Upper

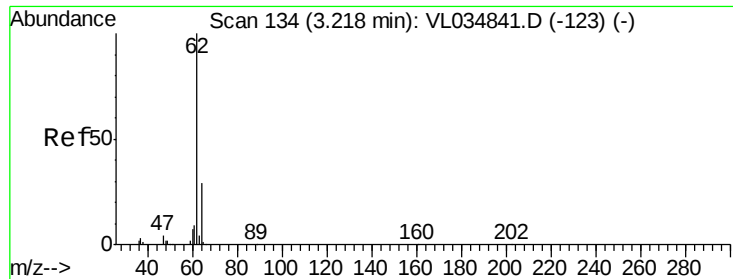
50 100

52 32.5 26.8 40.2



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





#5

Vinyl Chloride

Concen: 12.976 ppbv

RT: 3.22 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 776893

Ion Ratio Lower Upper

62 100

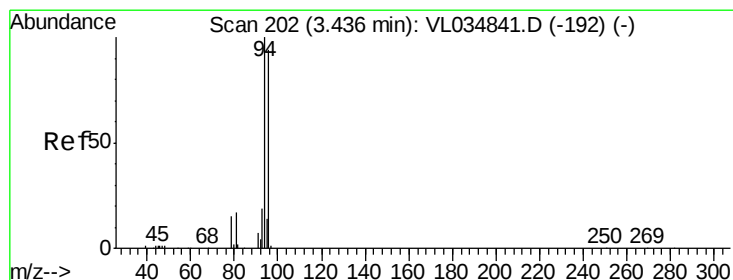
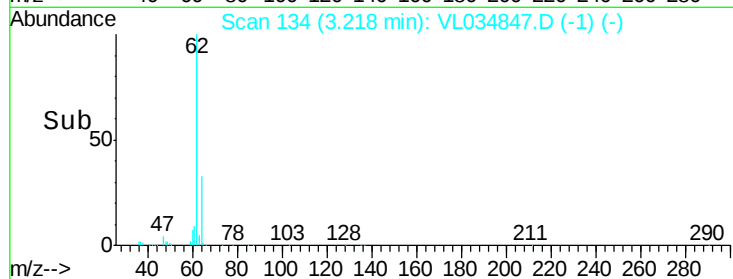
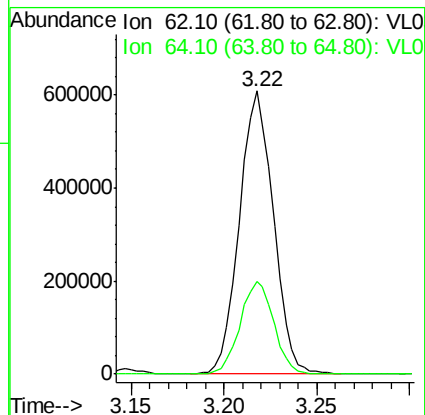
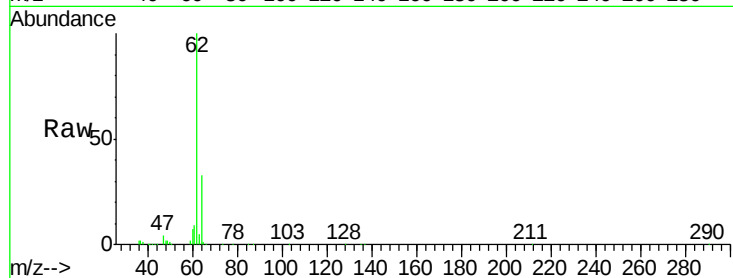
64 32.7 23.0 34.4

Manual Integrations

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#6

Bromomethane

Concen: 13.747 ppbv

RT: 3.44 min Scan# 202

Delta R.T. -0.00 min

Lab File: VL034847.D

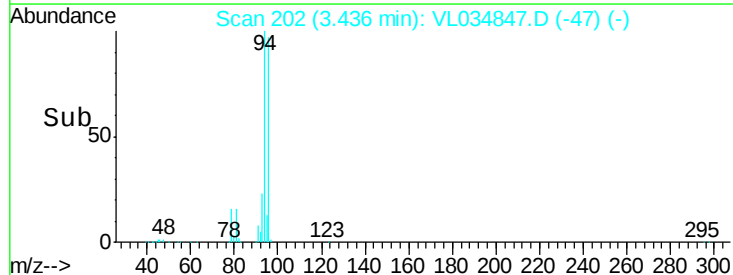
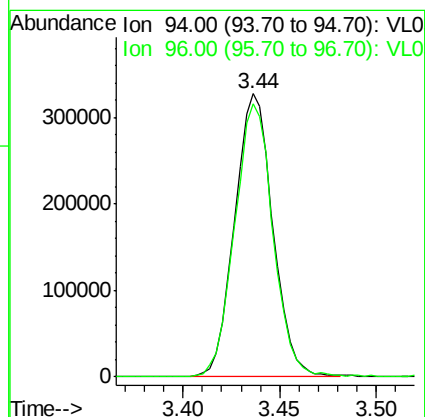
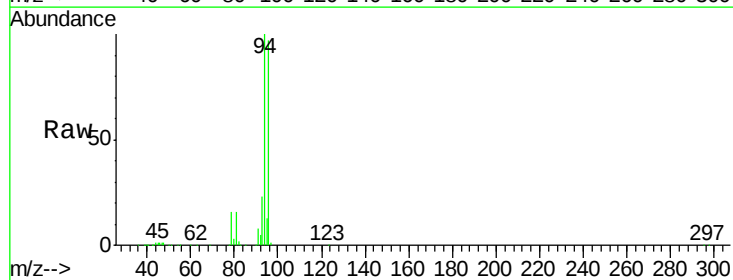
Acq: 9 Mar 2020 16:09

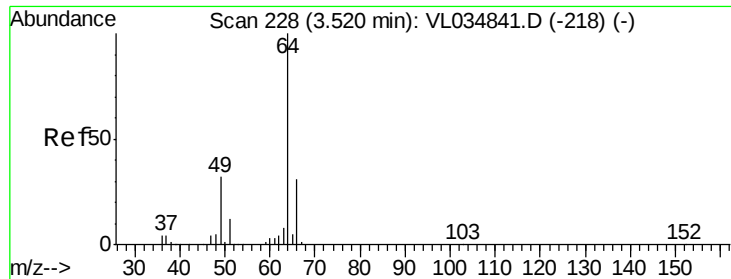
Tgt Ion: 94 Resp: 449231

Ion Ratio Lower Upper

94 100

96 96.4 75.5 113.3





#7

Chloroethane

Concen: 13.923 ppbv

RT: 3.52 min Scan# 228

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 288242

Ion Ratio Lower Upper

64 100

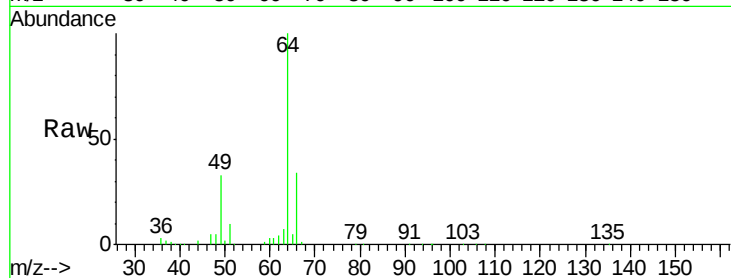
66 34.2 24.8 37.2

Manual Integrations

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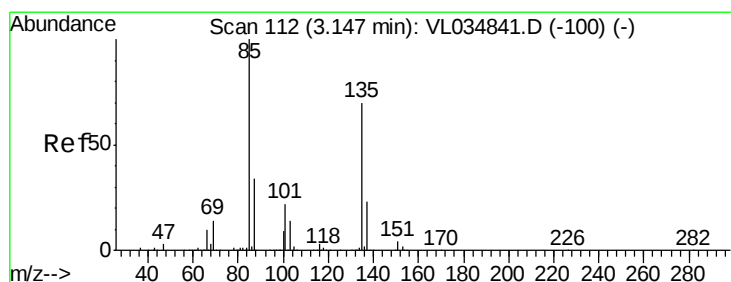
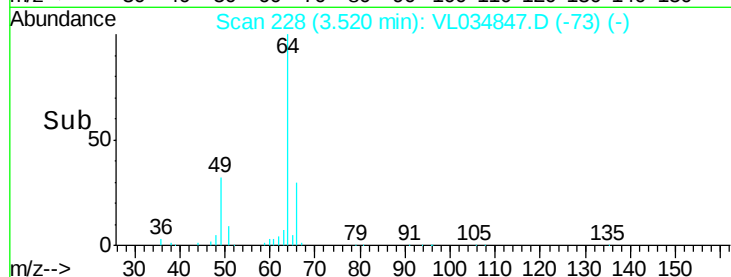
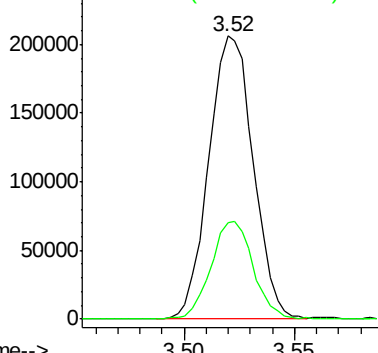
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 12.589 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL034847.D

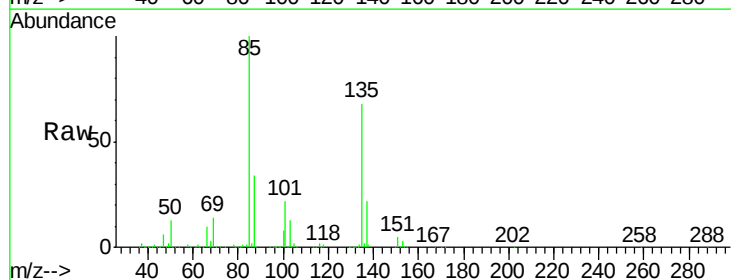
Acq: 9 Mar 2020 16:09

Tgt Ion: 85 Resp: 1648298

Ion Ratio Lower Upper

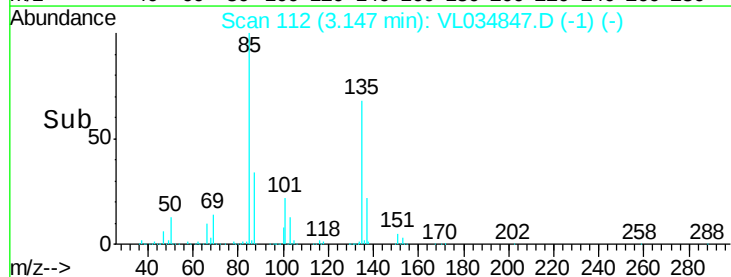
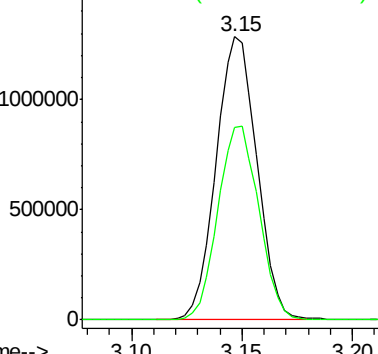
85 100

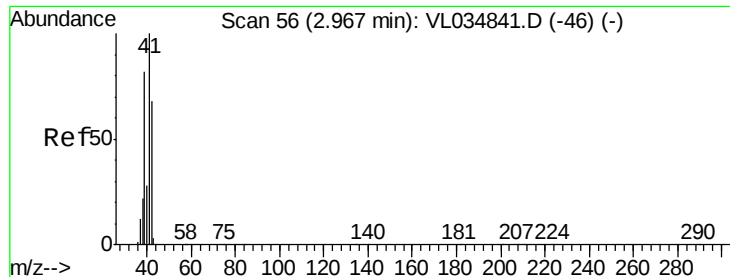
135 69.1 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 16.251 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 673057

Ion Ratio Lower Upper

41 100

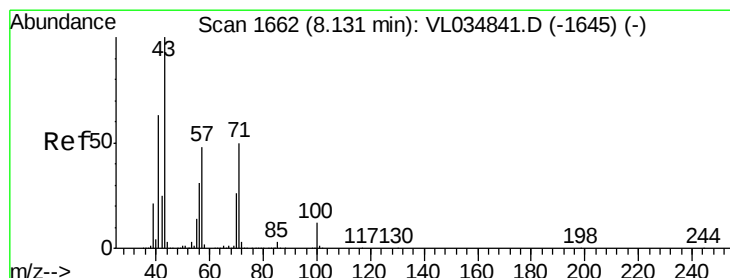
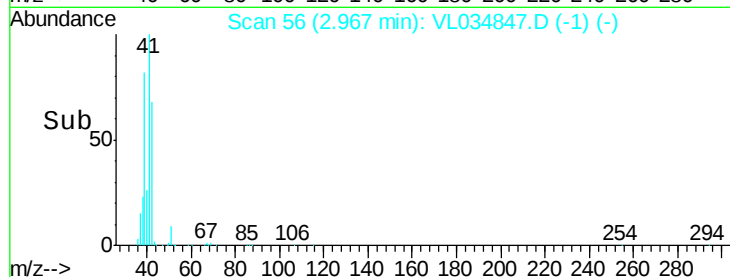
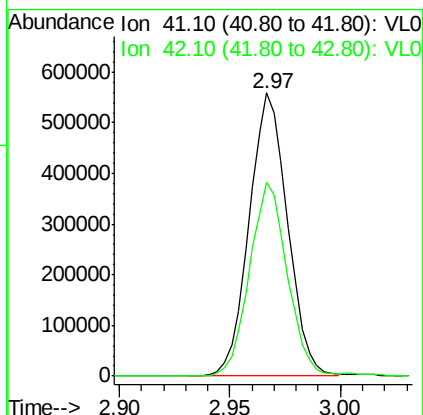
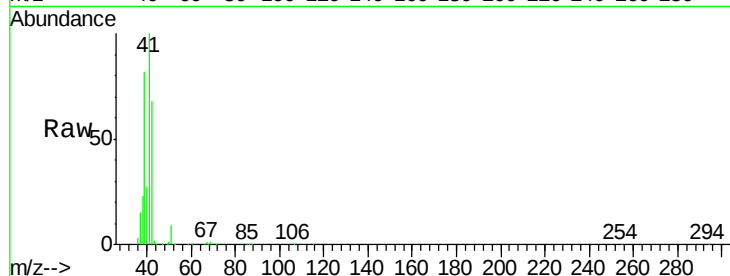
42 68.2 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 16.600 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.00 min

Lab File: VL034847.D

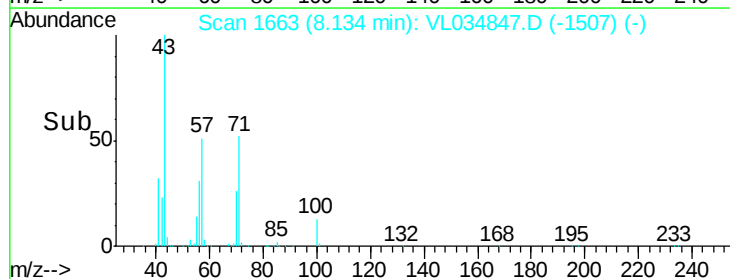
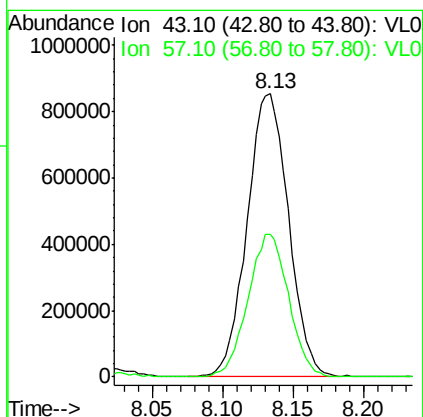
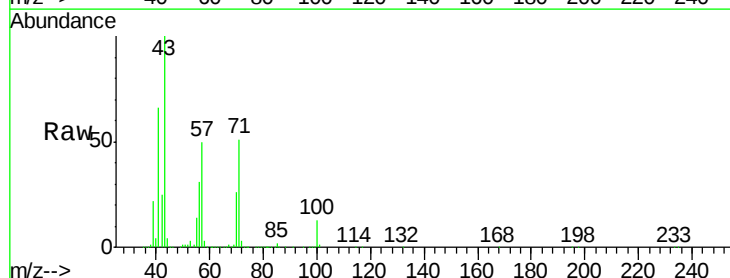
Acq: 9 Mar 2020 16:09

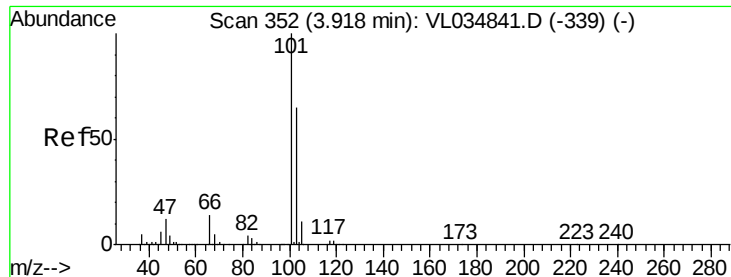
Tgt Ion: 43 Resp: 1747239

Ion Ratio Lower Upper

43 100

57 49.5 39.7 59.5





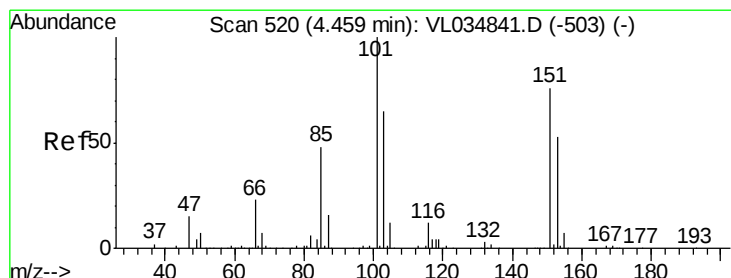
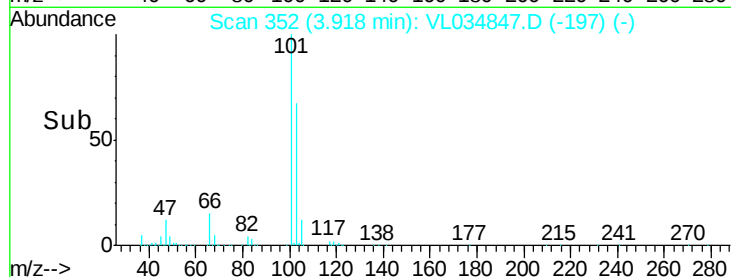
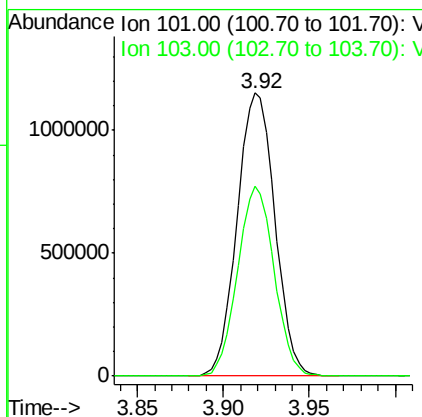
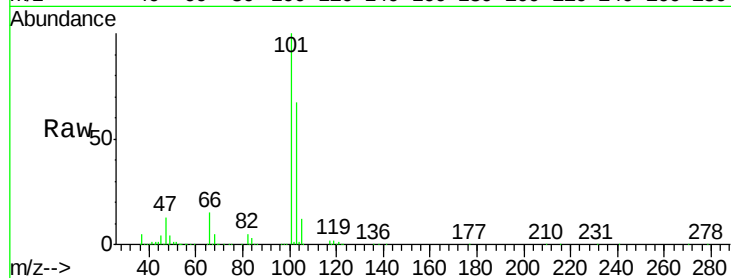
#11
 Trichlorofluoromethane
 Concen: 12.997 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 1752926
 Ion Ratio Lower Upper
 101 100
 103 67.0 51.8 77.8

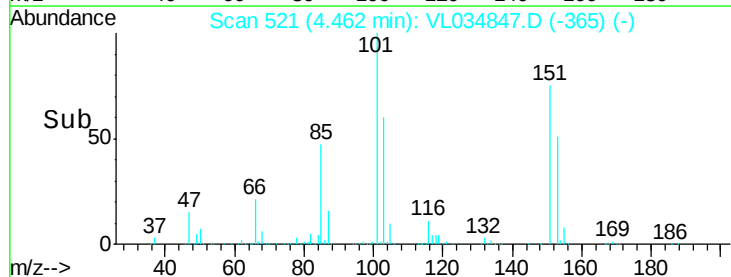
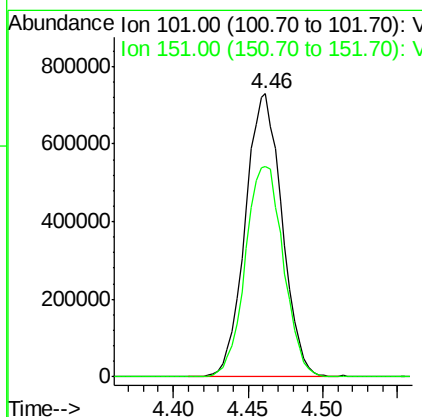
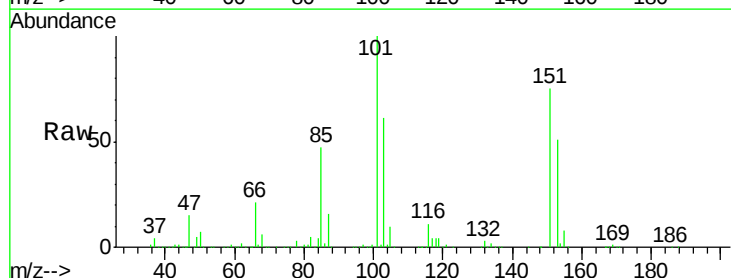
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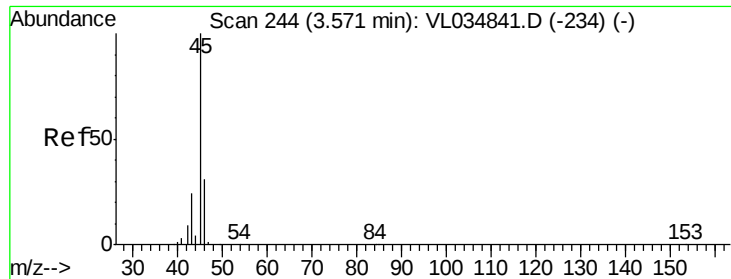
MMDadoda
 3/11/2020 3:26:08 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.366 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion:101 Resp: 1243795
 Ion Ratio Lower Upper
 101 100
 151 77.2 60.8 91.2





#13

Ethanol

Concen: 13.423 ppbv

RT: 3.57 min Scan# 244

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 190471

Ion Ratio Lower Upper

45 100

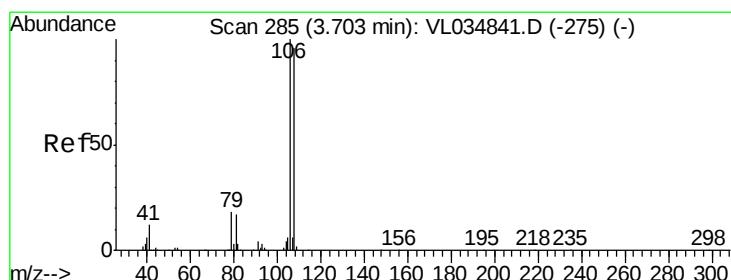
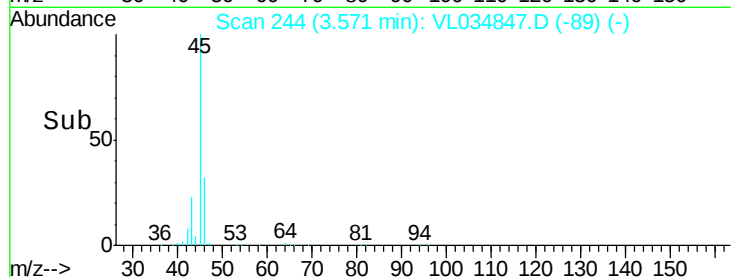
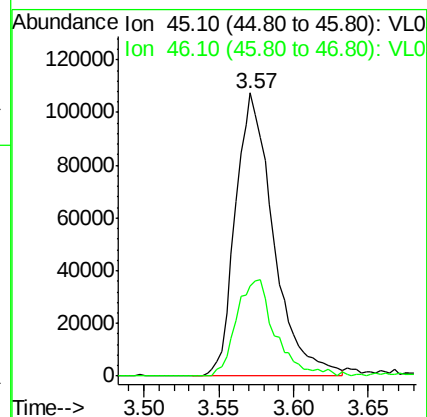
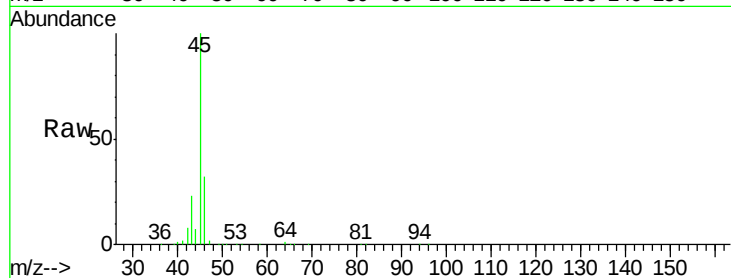
46 35.1 16.0 64.0

Manual Integrations

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#14

Bromoethene

Concen: 14.748 ppbv

RT: 3.71 min Scan# 286

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

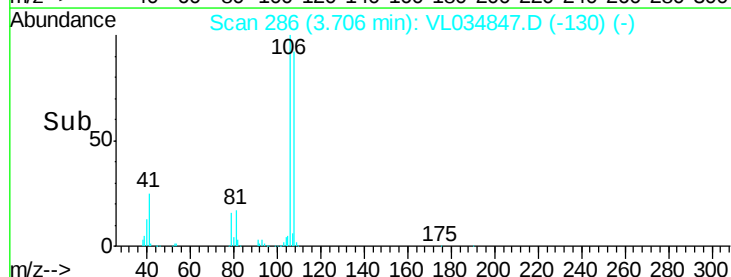
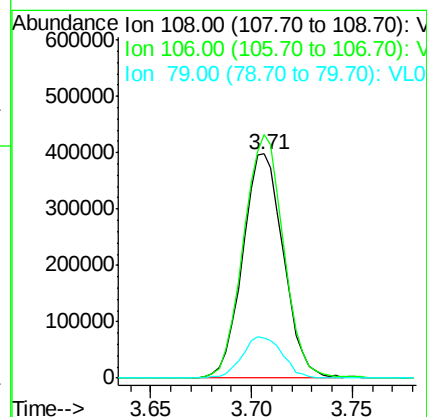
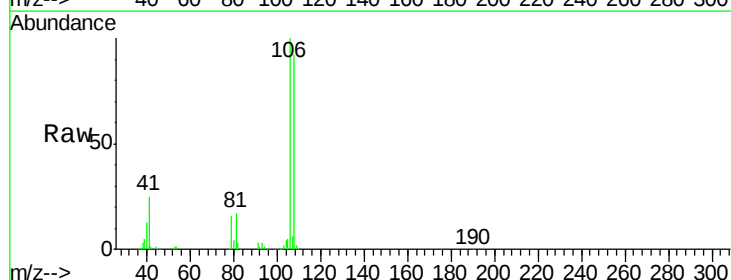
Tgt Ion: 108 Resp: 563140

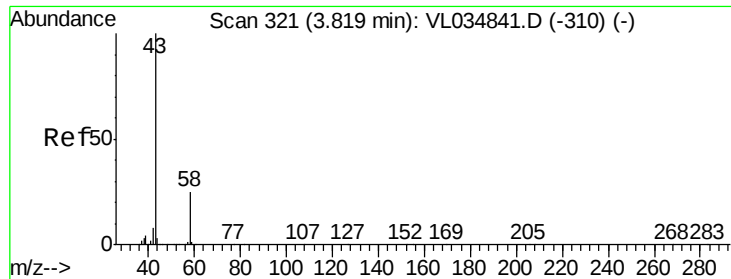
Ion Ratio Lower Upper

108 100

106 107.8 85.1 127.7

79 18.7 14.7 22.1





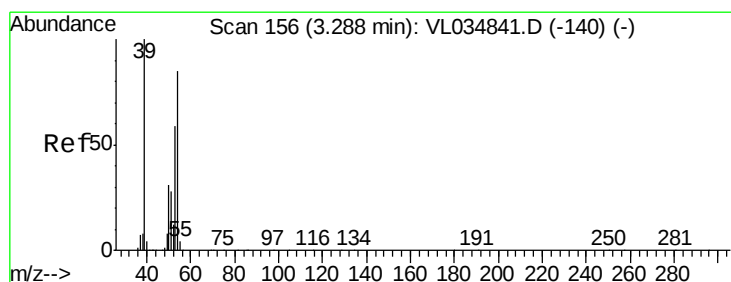
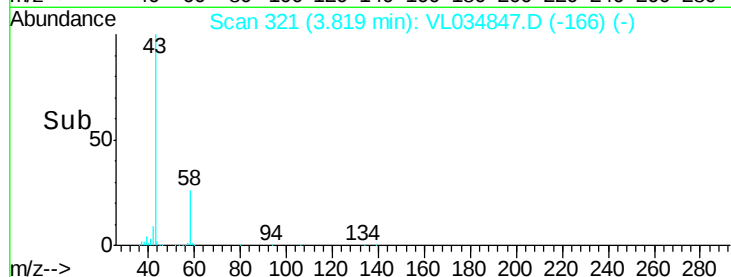
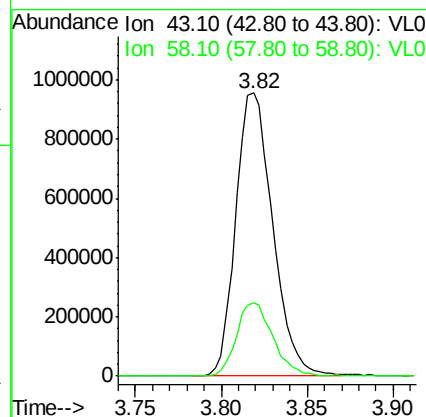
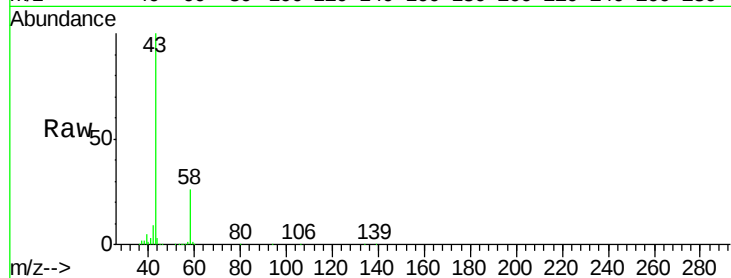
#15
Acetone
Concen: 12.987 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1436289
Ion Ratio Lower Upper
43 100
58 25.9 21.0 31.6

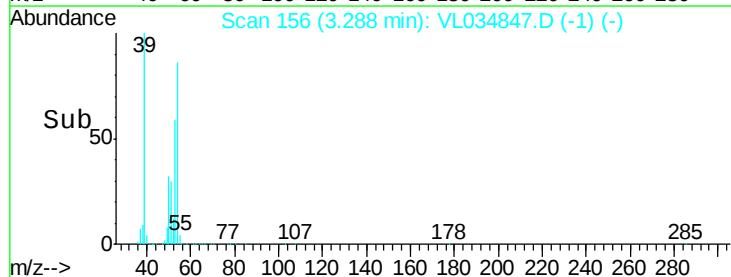
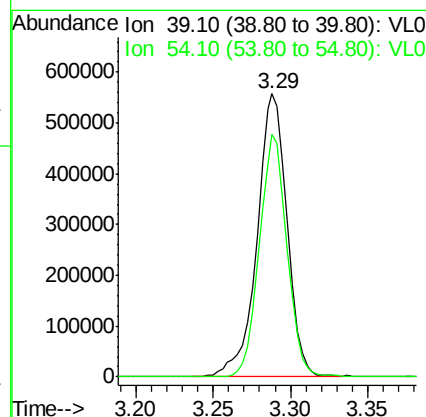
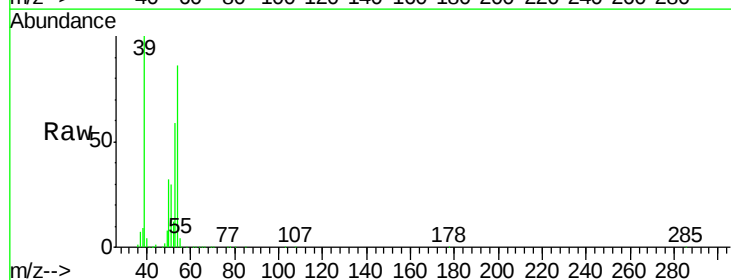
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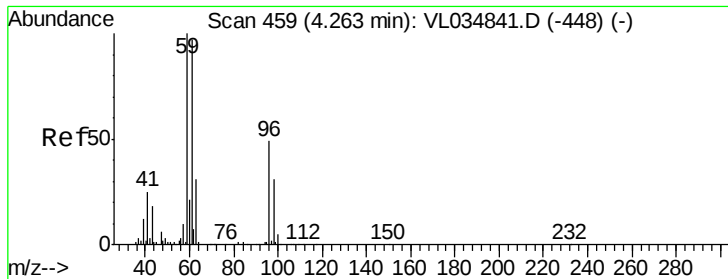
MMDadoda
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#16
1,3-Butadiene
Concen: 15.100 ppbv
RT: 3.29 min Scan# 156
Delta R.T. -0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 39 Resp: 755614
Ion Ratio Lower Upper
39 100
54 79.2 65.0 97.6





#17

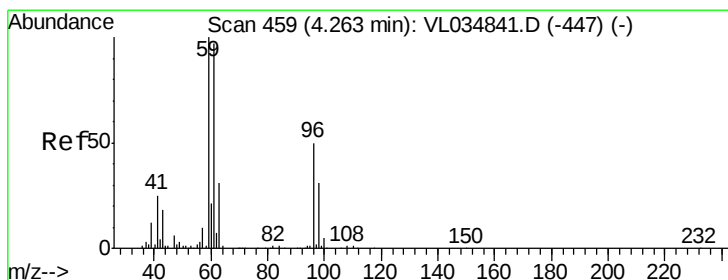
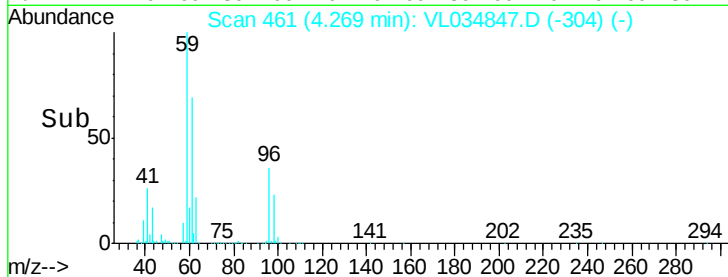
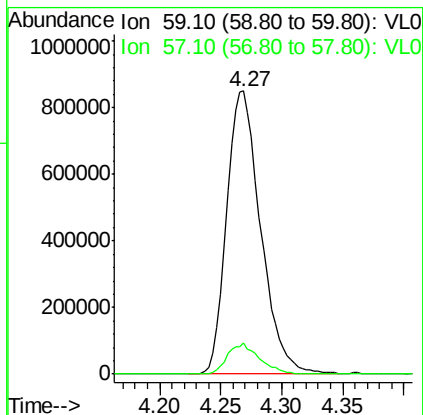
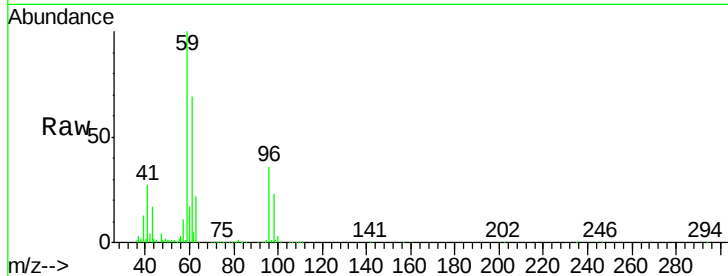
tert-Butyl alcohol
 Concen: 18.960 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. 0.01 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 1653446
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.3 12.5

Manual Integrations
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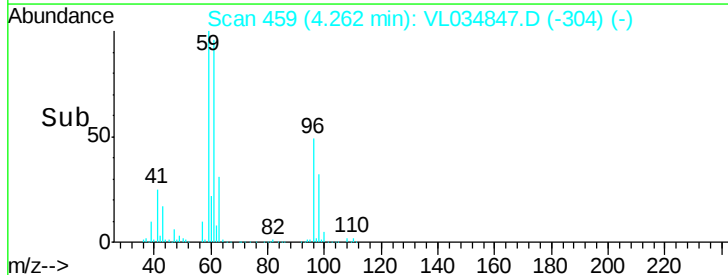
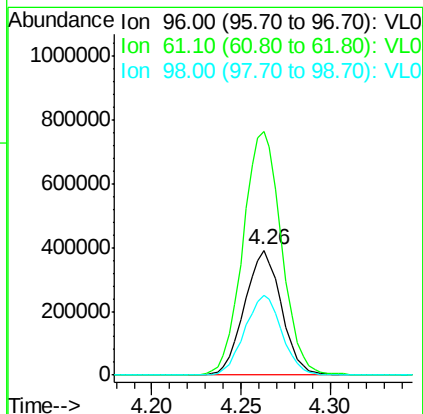
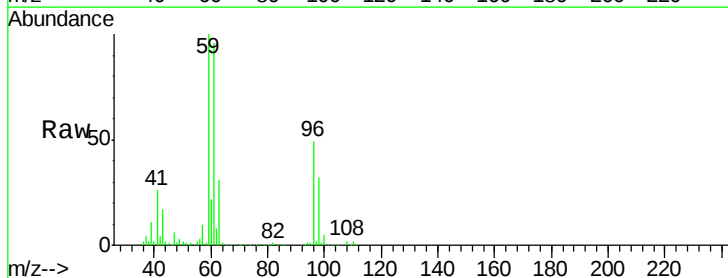
MMDadoda
 3/11/2020 3:26:08 PM

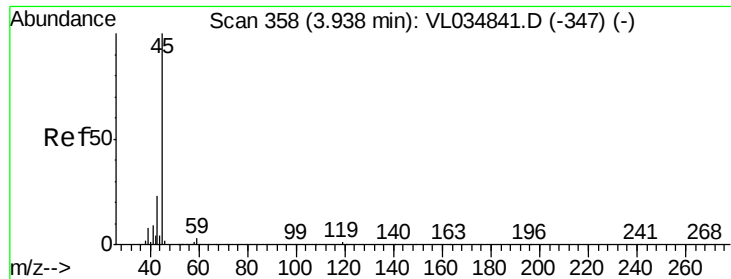


#18

1,1-Dichloroethene
 Concen: 13.778 ppbv
 RT: 4.26 min Scan# 459
 Delta R.T. -0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion: 96 Resp: 565434
 Ion Ratio Lower Upper
 96 100
 61 194.6 157.3 235.9
 98 63.9 50.2 75.4





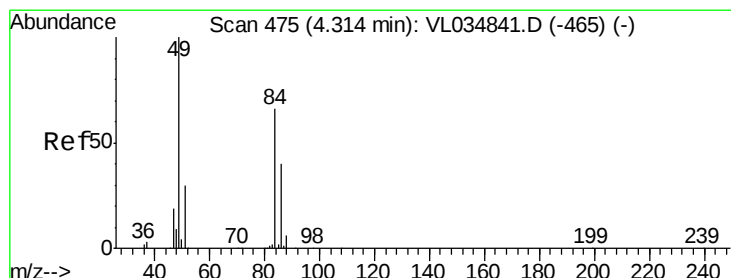
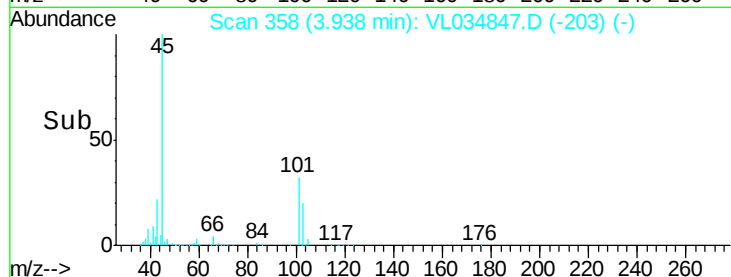
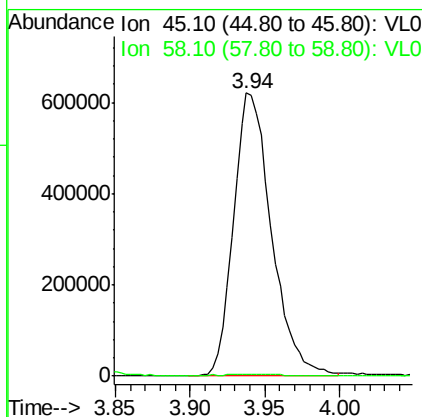
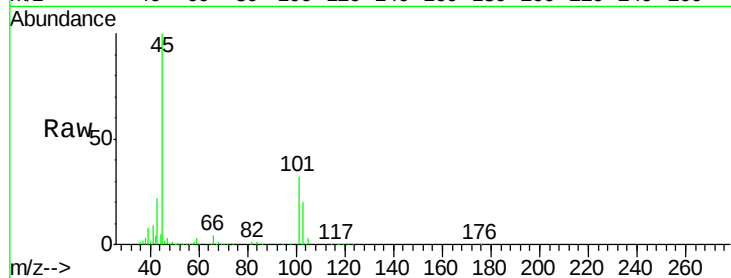
#19
Isopropyl Alcohol
Concen: 16.550 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 1096673
Ion Ratio Lower Upper
45 100
58 1.0 30.5 45.7#

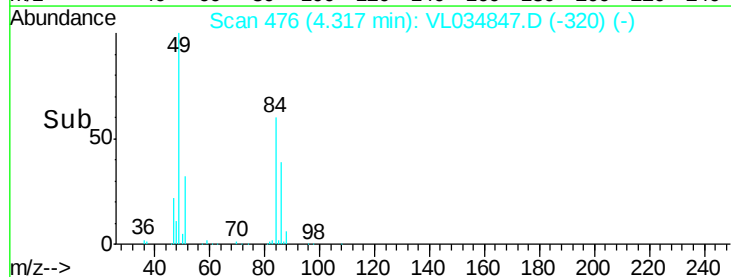
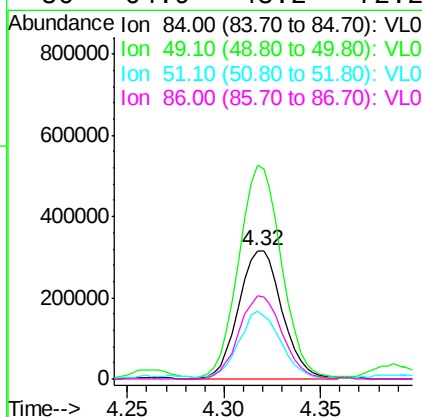
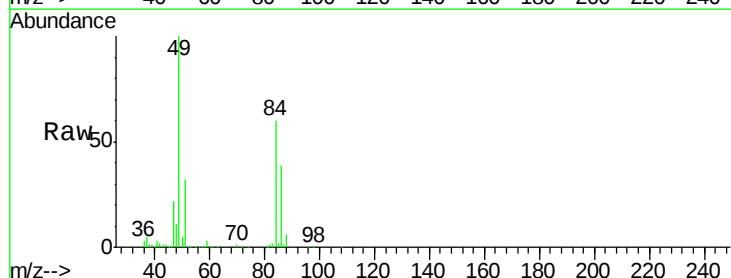
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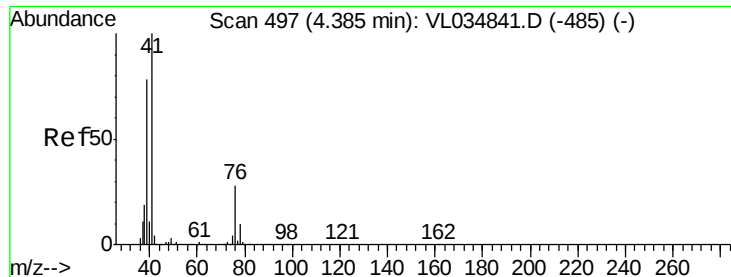
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#20
Methylene Chloride
Concen: 12.562 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 84 Resp: 495857
Ion Ratio Lower Upper
84 100
49 165.0 121.5 182.3
51 52.1 36.6 55.0
86 64.9 48.2 72.2





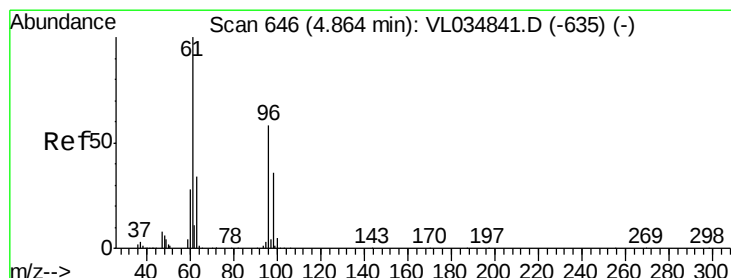
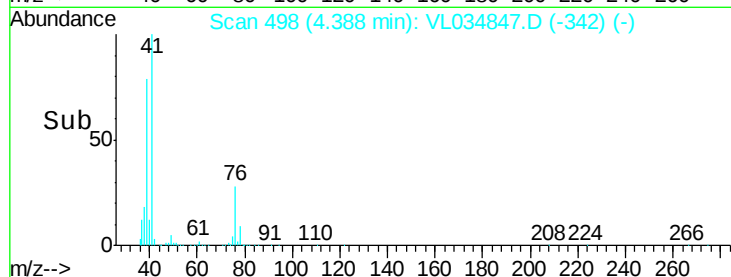
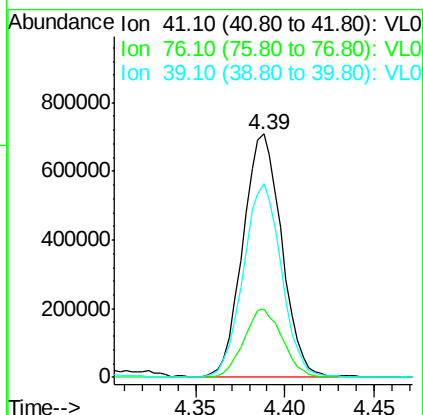
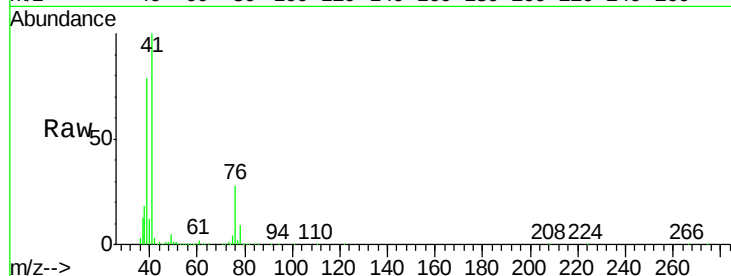
#21
Allvl Chloride
Concen: 15.235 ppbv
RT: 4.39 min Scan# 498
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 1066997
Ion Ratio Lower Upper
41 100
76 28.1 22.2 33.2
39 79.0 62.6 93.8

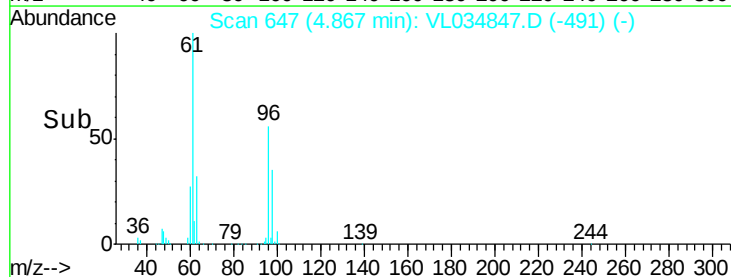
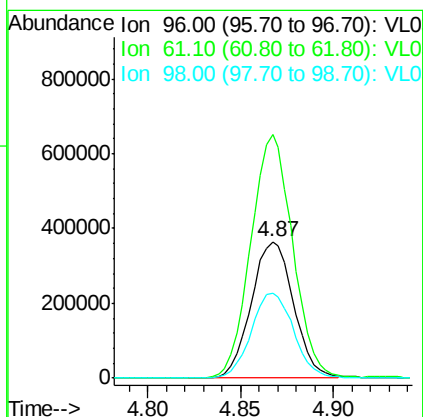
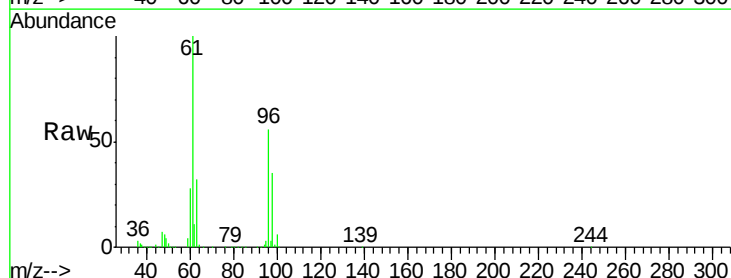
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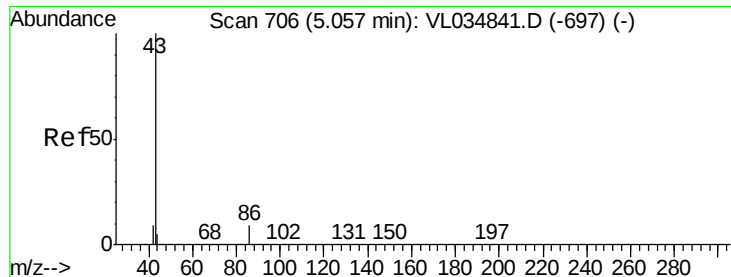
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 14.448 ppbv
RT: 4.87 min Scan# 647
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 96 Resp: 578829
Ion Ratio Lower Upper
96 100
61 178.6 139.0 208.6
98 62.5 50.3 75.5





#23

Vinyl Acetate

Concen: 16.626 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Tot Ion: 43 Resp: 2465690

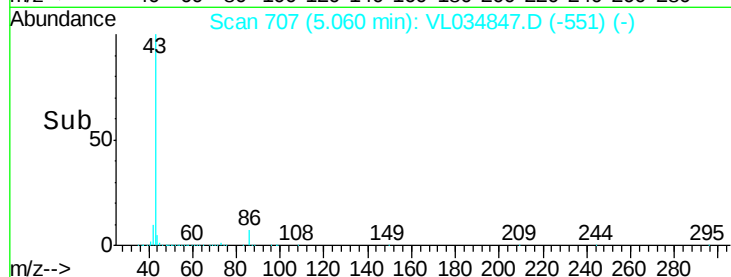
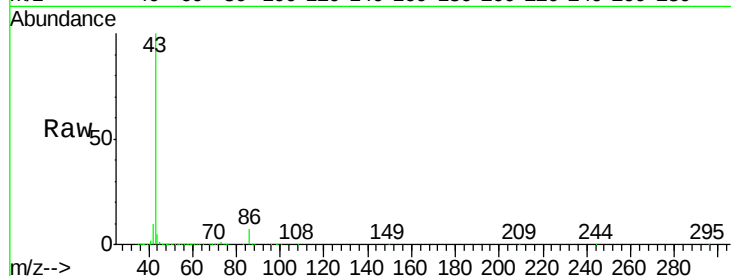
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.3	9.5
42	9.9	7.8	11.8
44	5.0	4.0	6.0

43 100

86 7.0 6.3 9.5

42 9.9 7.8 11.8

44 5.0 4.0 6.0

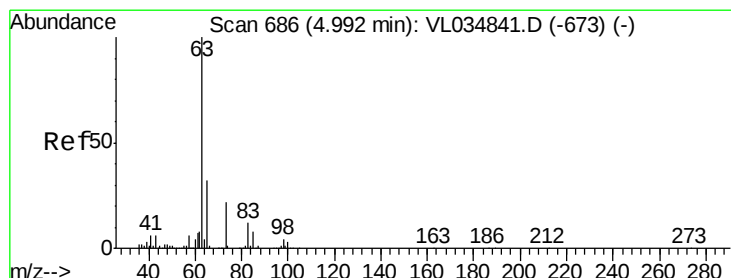
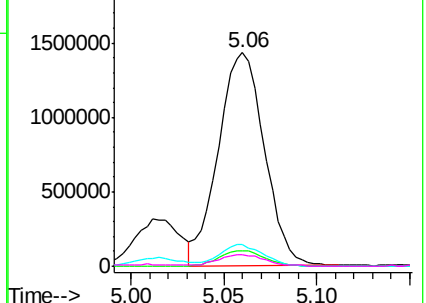


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 13.874 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

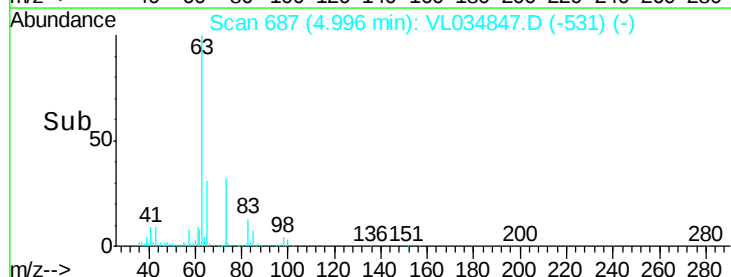
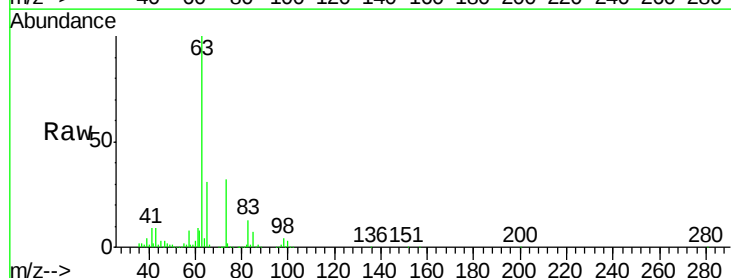
Tgt Ion: 63 Resp: 1596991

Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.0	5.8
100	2.6	1.4	4.0

63 100

98 4.0 2.0 5.8

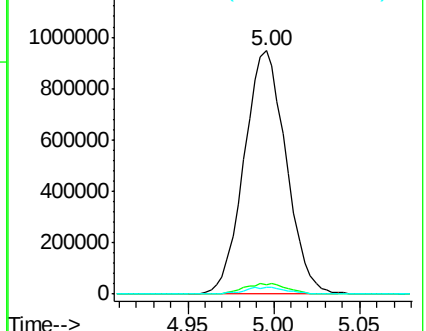
100 2.6 1.4 4.0

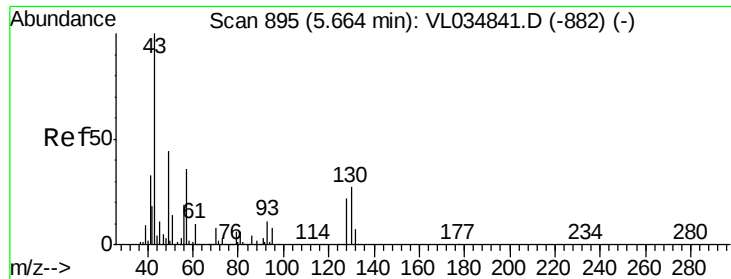


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 14.926 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

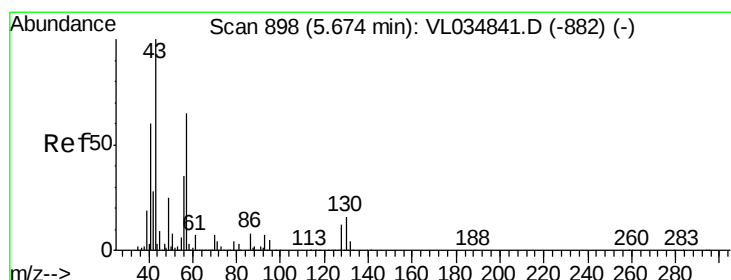
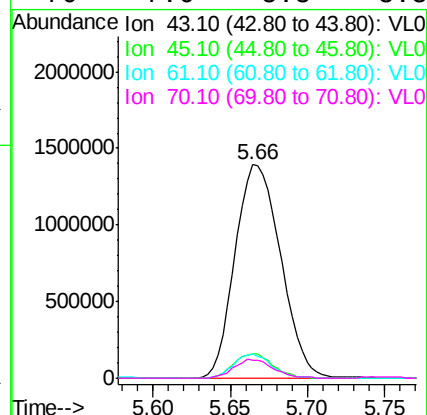
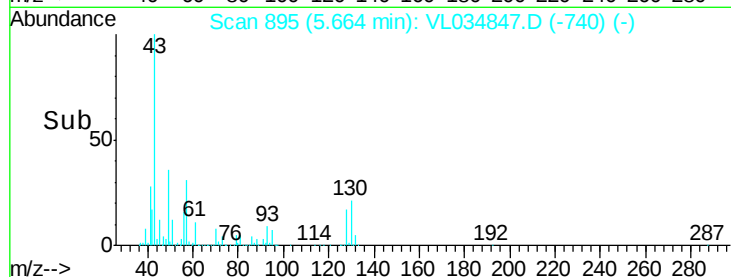
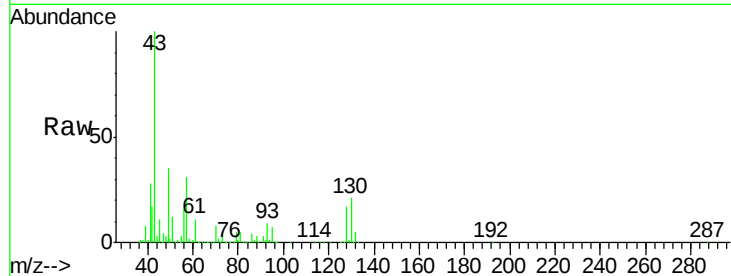
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2852694

Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.7	7.8	11.6
70	7.6	5.8	8.8

Manual Integrations
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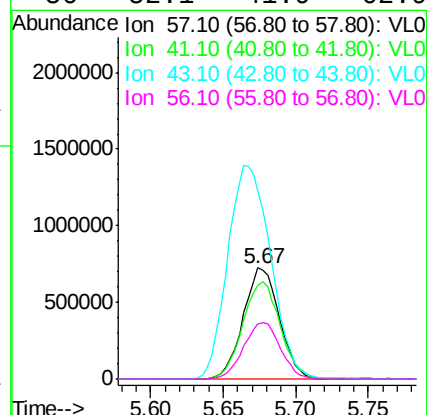
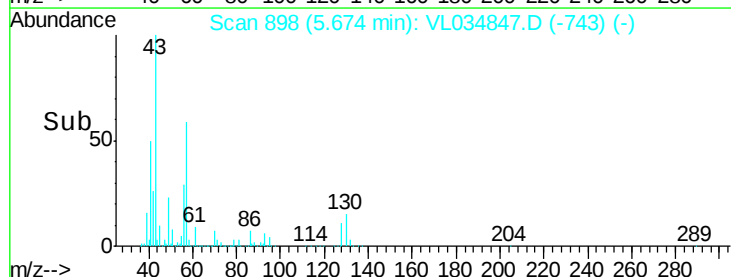
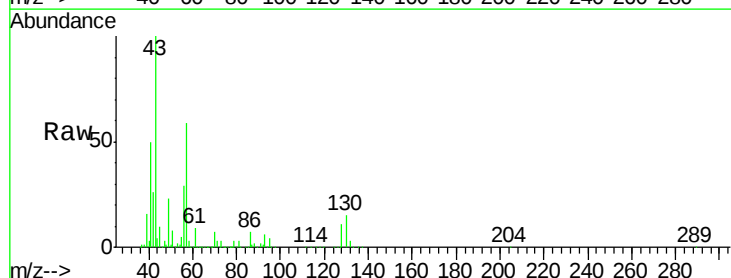
MMDadoda
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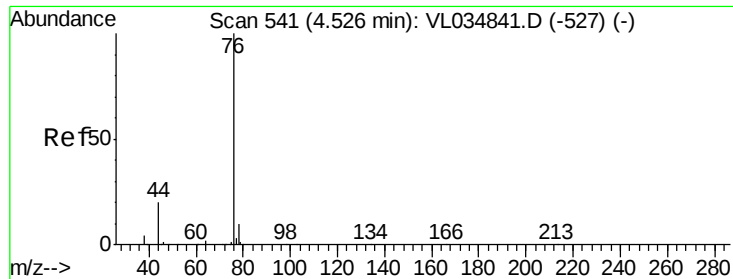


#26
Hexane
Concen: 15.091 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 57 Resp: 1259940

Ion	Ratio	Lower	Upper
57	100		
41	91.0	72.6	109.0
43	227.5	183.8	275.6
56	52.1	41.9	62.9





#27

Carbon Disulfide

Concen: 15.537 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1515403

Ion Ratio Lower Upper

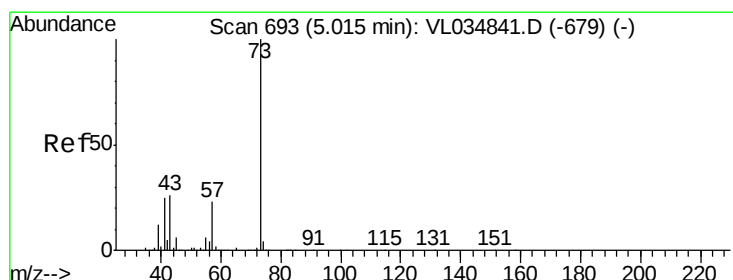
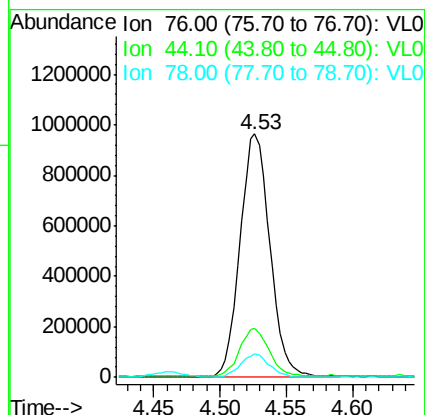
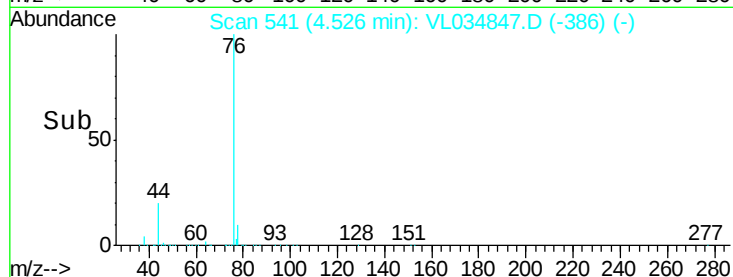
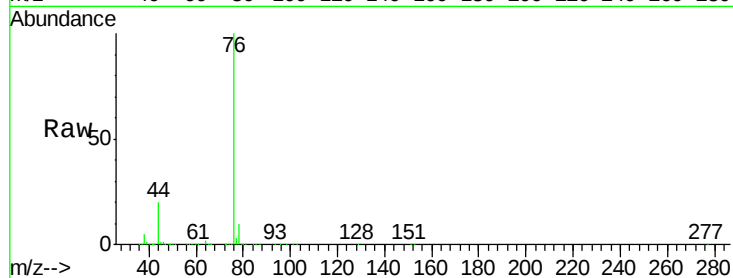
76 100

44 19.4 16.2 24.2

78 9.5 7.8 11.6

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#28

Methyl tert-Butyl Ether

Concen: 16.878 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL034847.D

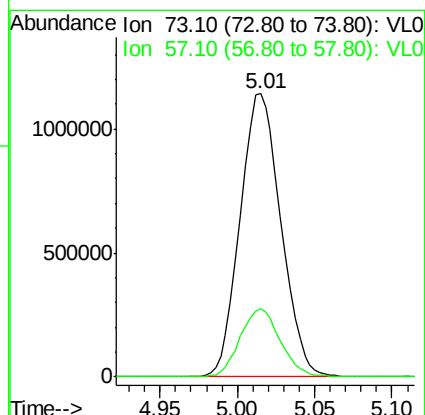
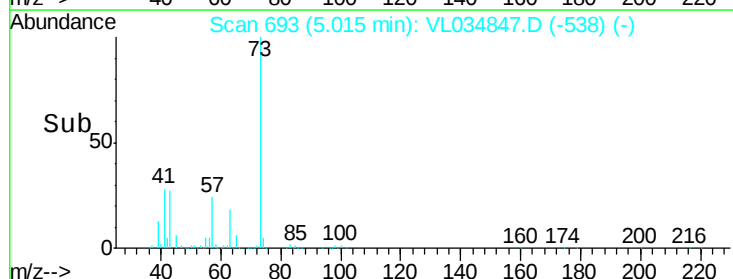
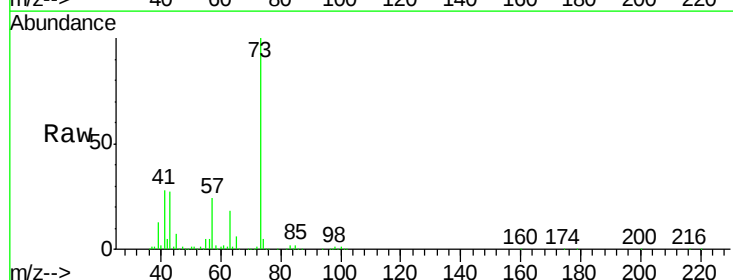
Acq: 9 Mar 2020 16:09

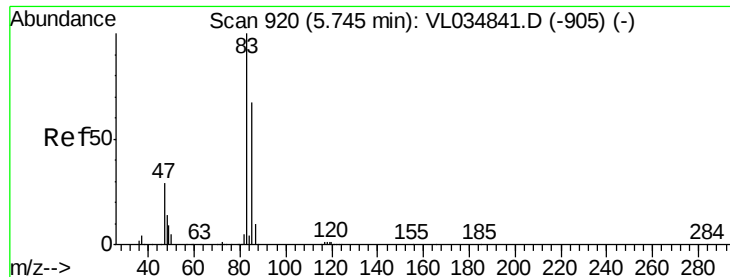
Tgt Ion: 73 Resp: 2097384

Ion Ratio Lower Upper

73 100

57 23.9 18.3 27.5





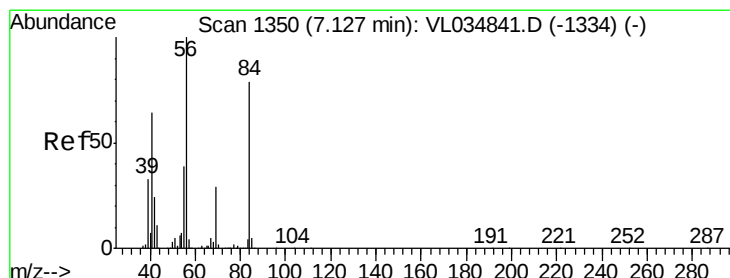
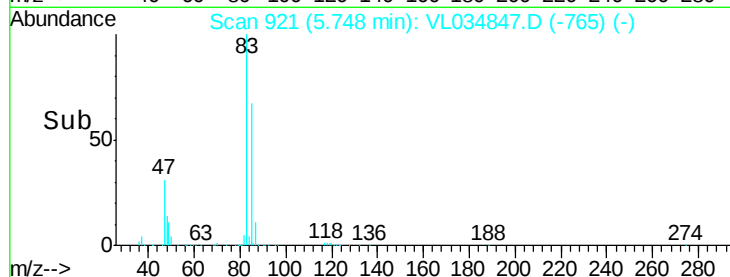
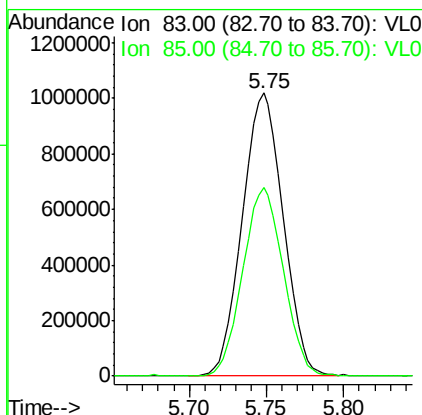
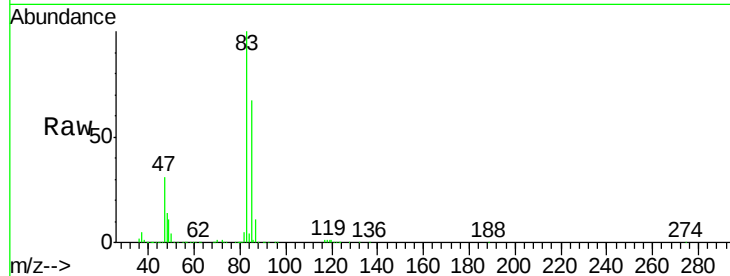
#29
Chloroform
Concen: 13.366 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 1878482
Ion Ratio Lower Upper
83 100
85 66.5 53.8 80.6

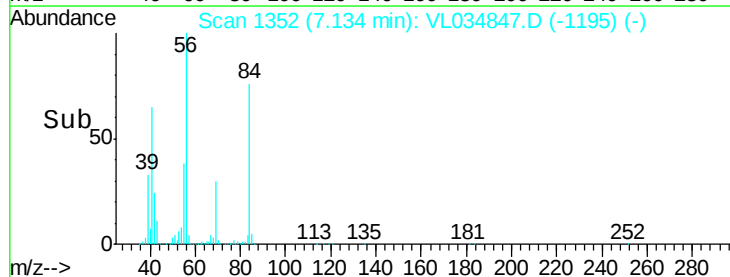
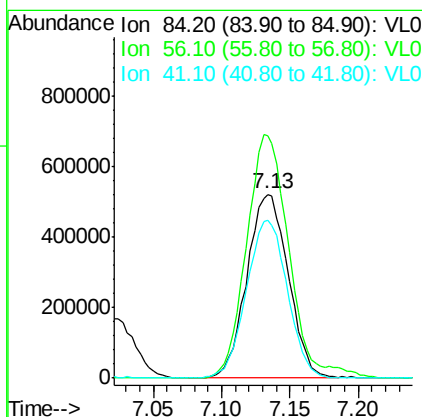
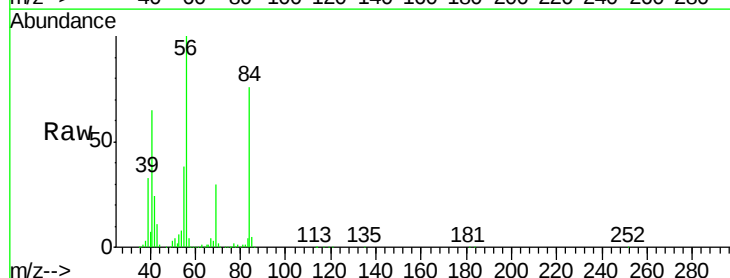
Manual Integrations
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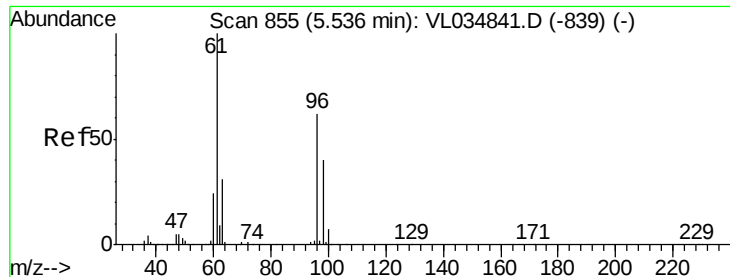
MMDadoda
3/11/2020 3:26:08 PM



#30
Cyclohexane
Concen: 17.155 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 84 Resp: 1095800
Ion Ratio Lower Upper
84 100
56 136.1 110.5 165.7
41 85.5 68.2 102.4





#31

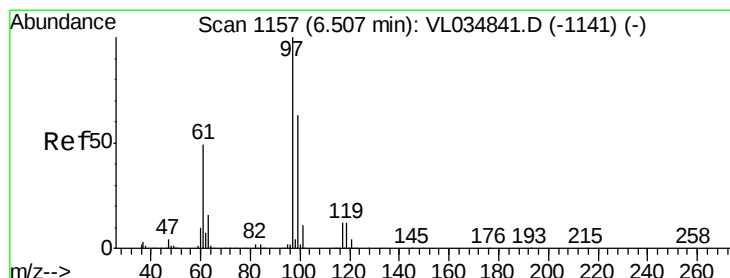
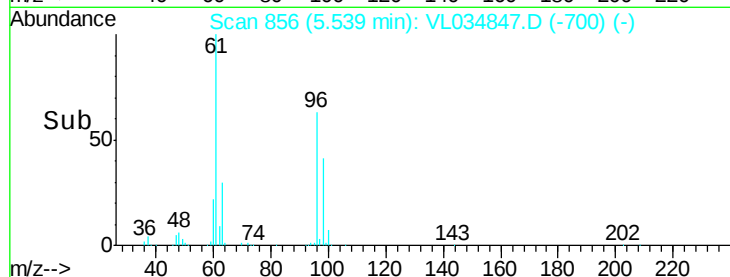
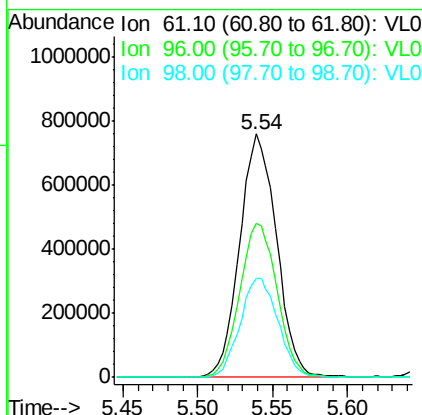
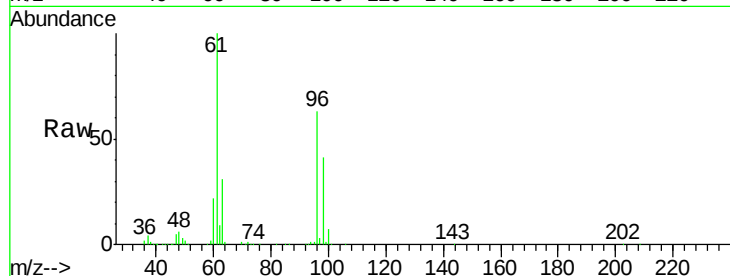
cis-1,2-Dichloroethene
Concen: 15.258 ppbv
RT: 5.54 min Scan# 856
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.1	49.8	74.8
98	40.8	32.2	48.4

Manual Integrations
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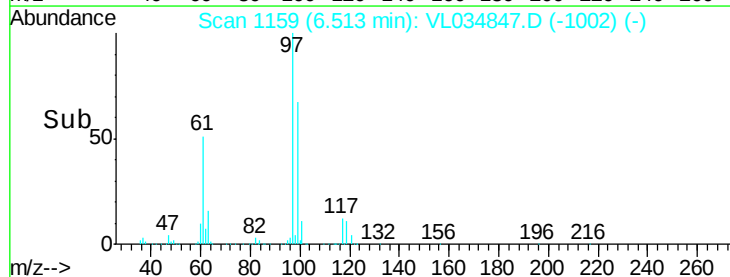
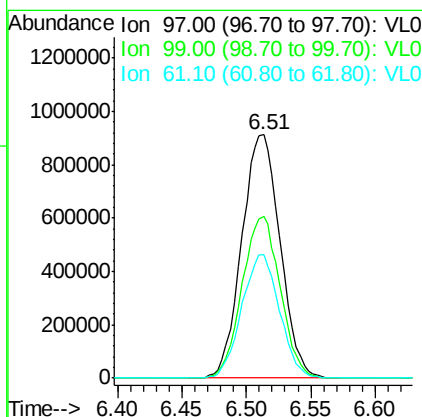
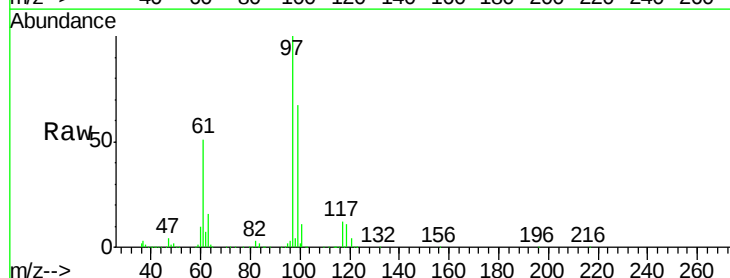
MMDadoda
3/11/2020 3:26:08 PM

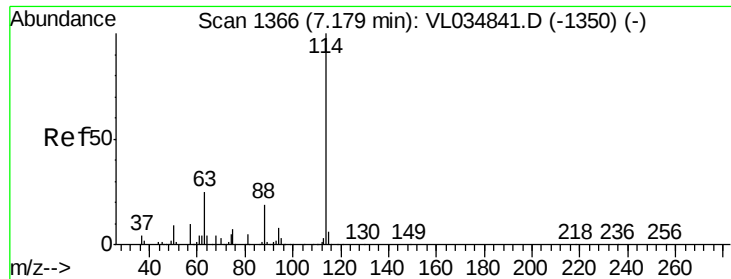


#32

1,1,1-Trichloroethane
Concen: 13.602 ppbv
RT: 6.51 min Scan# 1159
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.1	51.1	76.7
61	49.9	39.7	59.5





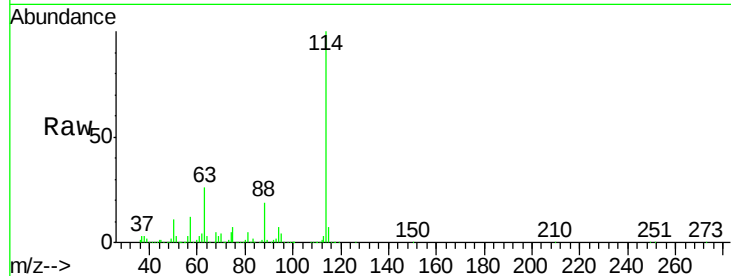
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

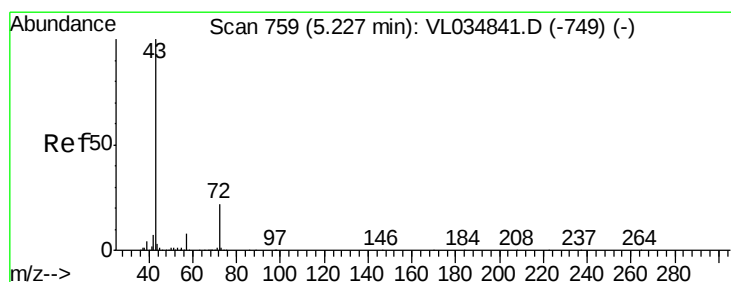
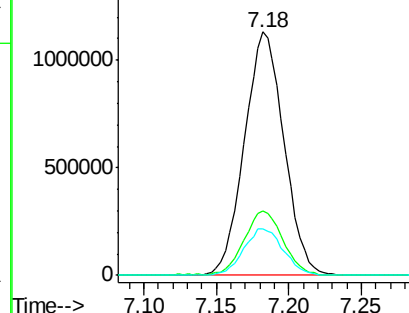
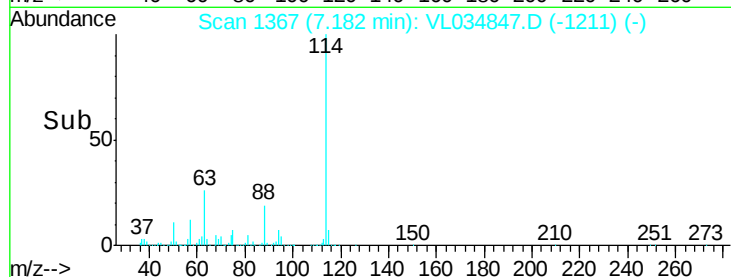
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.7	20.6	31.0
88	19.3	15.0	22.6

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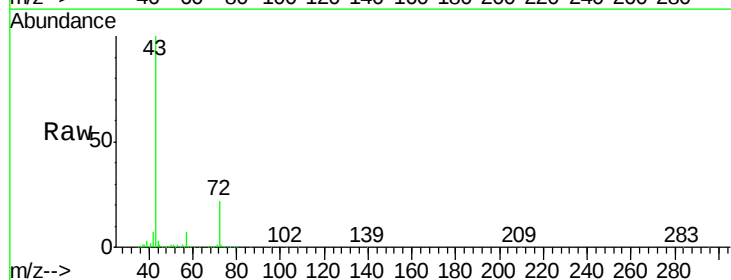


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

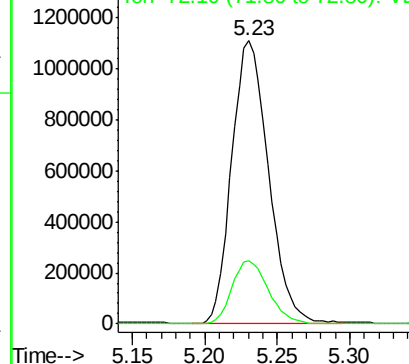
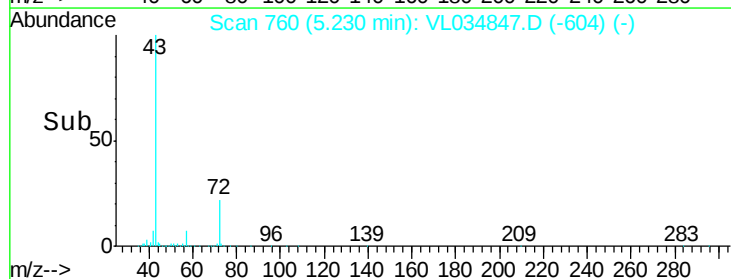


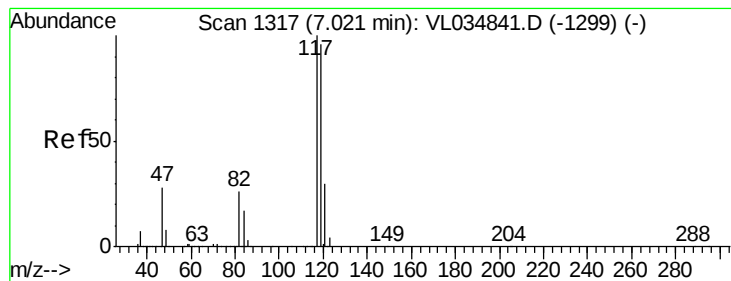
#34
 2-Butanone
 Concen: 14.033 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.6	26.4



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





#35

Carbon Tetrachloride

Concen: 12.054 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 1945079

Ion Ratio Lower Upper

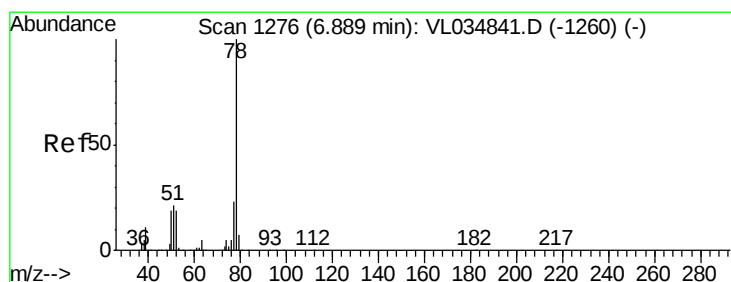
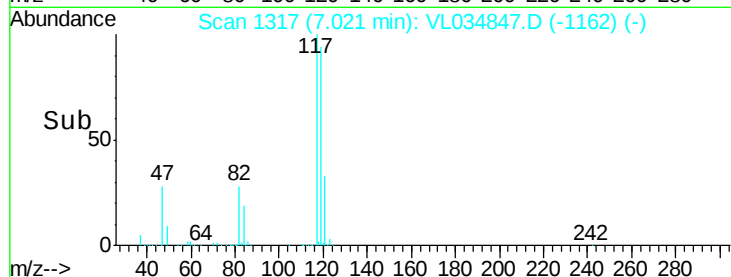
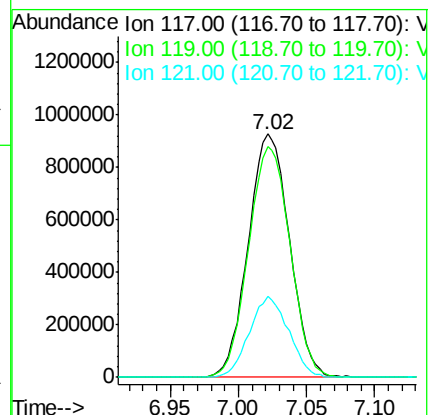
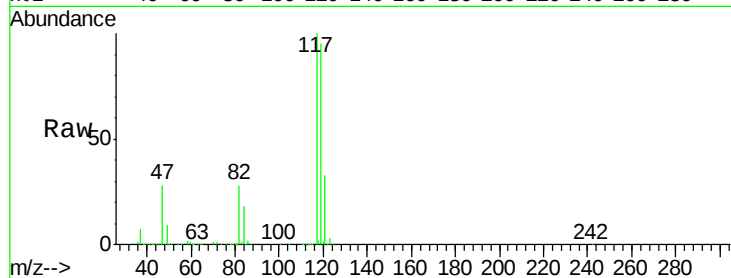
117 100

119 94.7 77.0 115.4

121 33.4 24.0 36.0

Manual Integrations
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#36

Benzene

Concen: 14.102 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

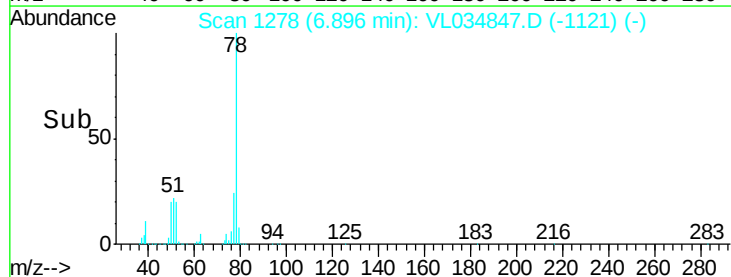
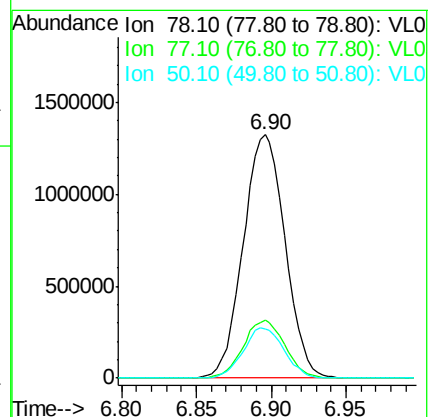
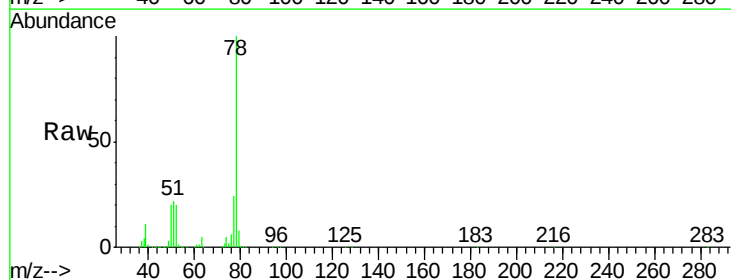
Tgt Ion: 78 Resp: 2576782

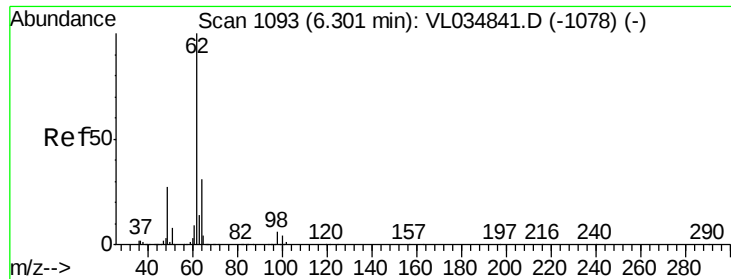
Ion Ratio Lower Upper

78 100

77 23.7 18.2 27.2

50 20.2 15.2 22.8





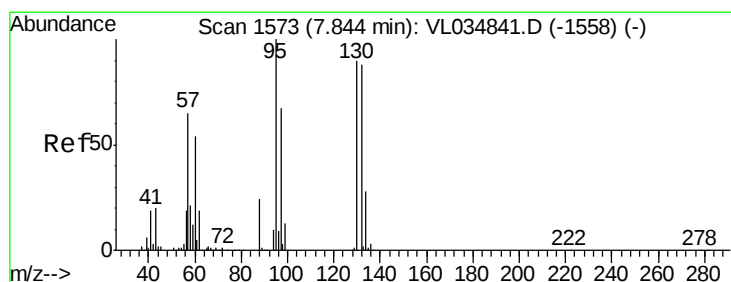
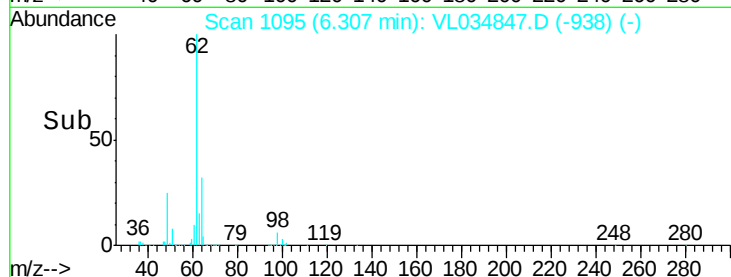
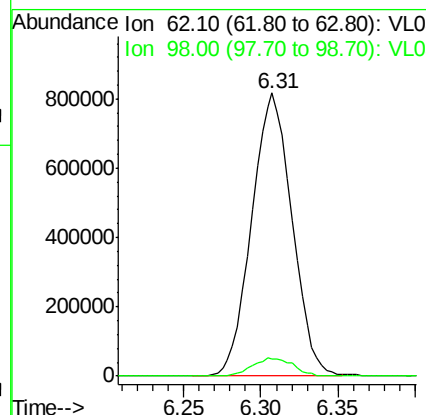
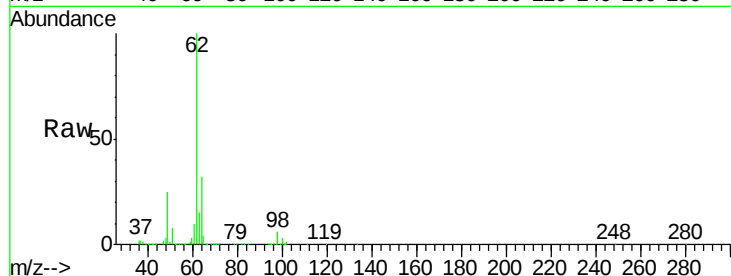
#37
 1,2-Dichloroethane
 Concen: 11.891 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. 0.01 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.2	7.8

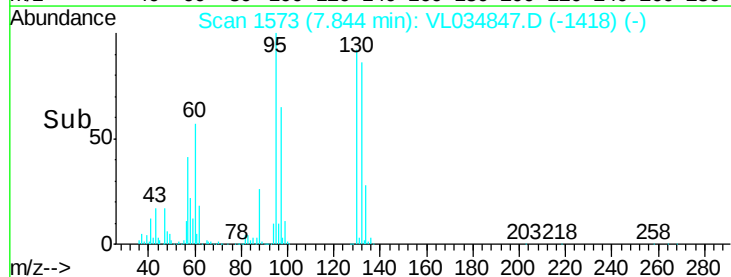
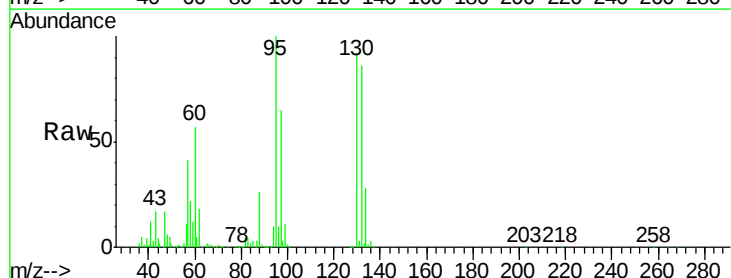
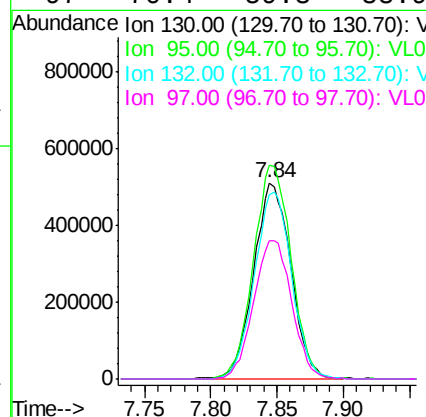
Manual Integrations
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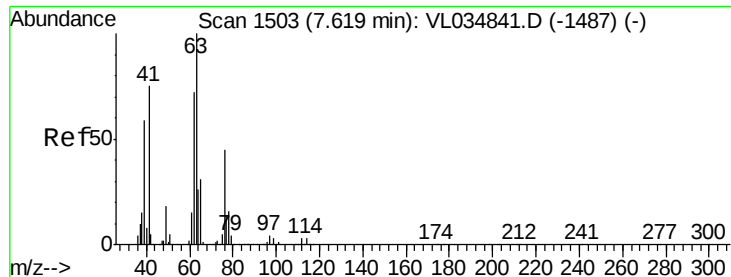
MMDadoda
 3/11/2020 3:26:08 PM



#38
 Trichloroethene
 Concen: 13.926 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.0	88.5	132.7
132	93.8	78.0	117.0
97	70.4	59.3	88.9





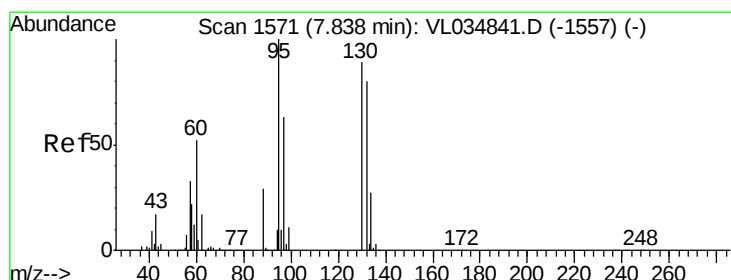
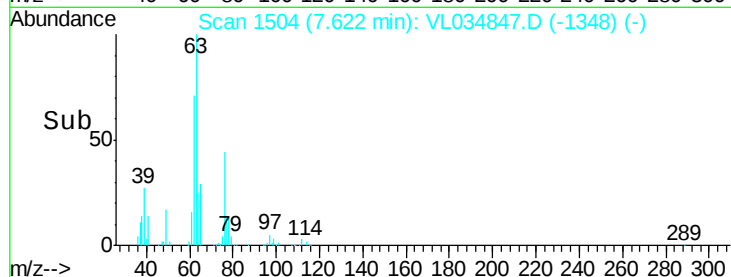
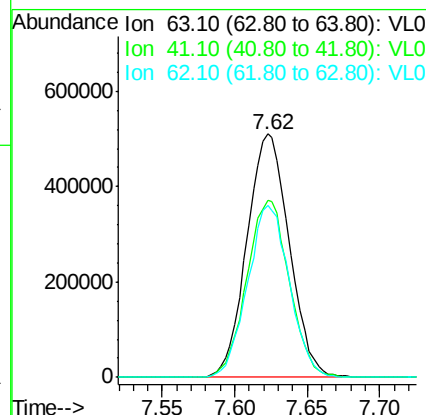
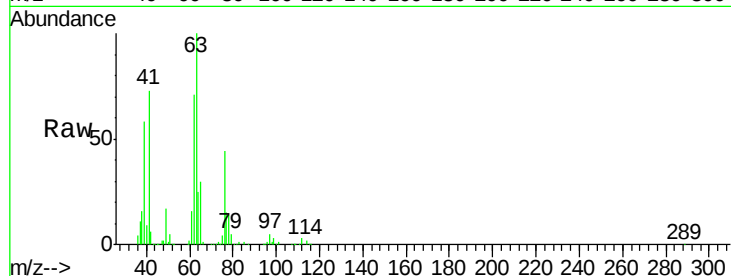
#39
 1,2-Dichloropropane
 Concen: 14.059 ppbv
 RT: 7.62 min Scan# 1504
 Delta R.T. 0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.8	59.8	89.8
62	70.6	57.6	86.4

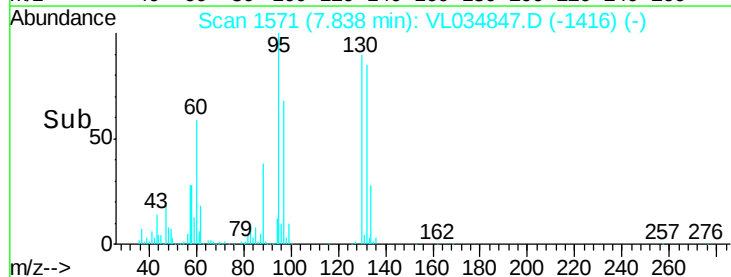
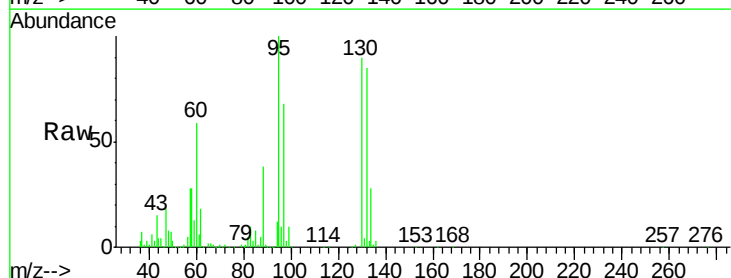
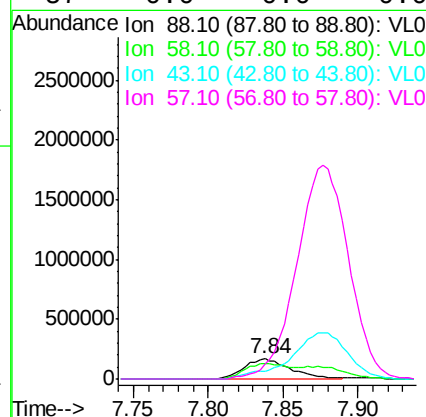
Manual Integrations
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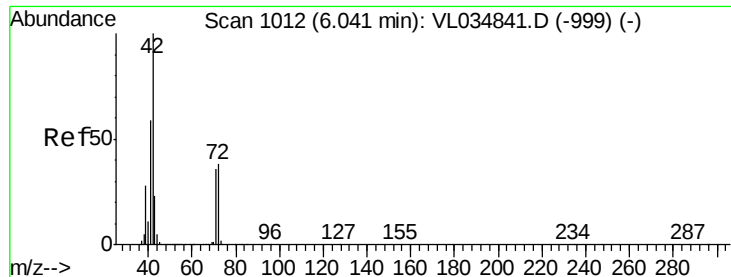
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#40
 1,4-Dioxane
 Concen: 14.381 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion	Ratio	Lower	Upper
88	100		
58	134.2	103.9	155.9
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 15.957 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1132698

Ion Ratio Lower Upper

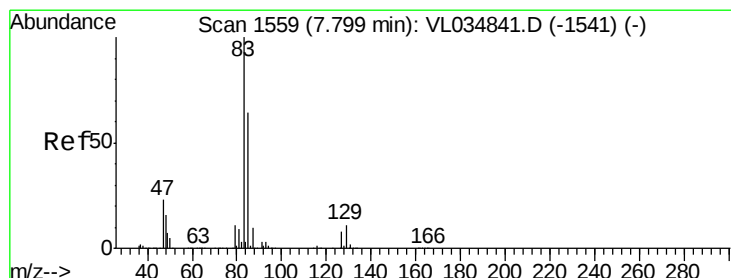
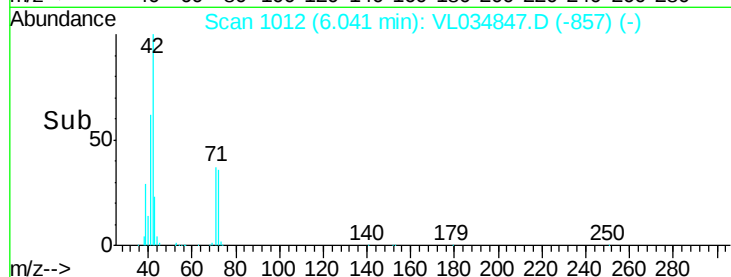
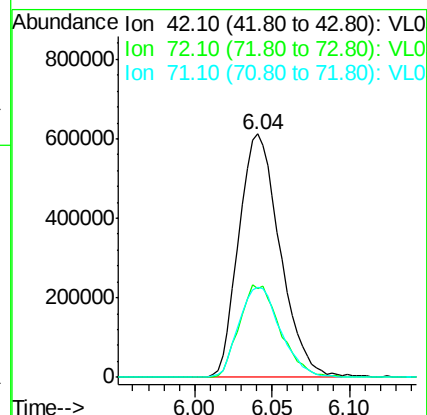
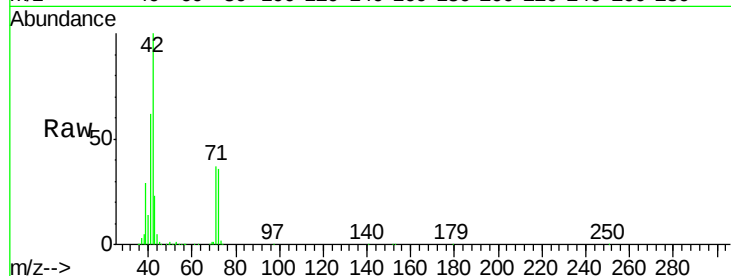
42 100

72 37.8 30.8 46.2

71 37.8 30.1 45.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 12.989 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

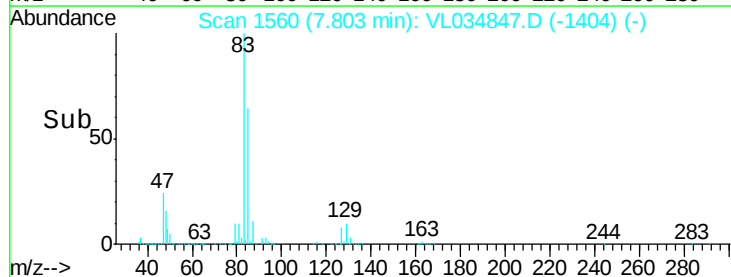
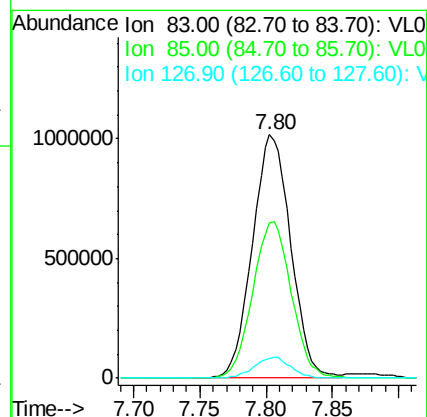
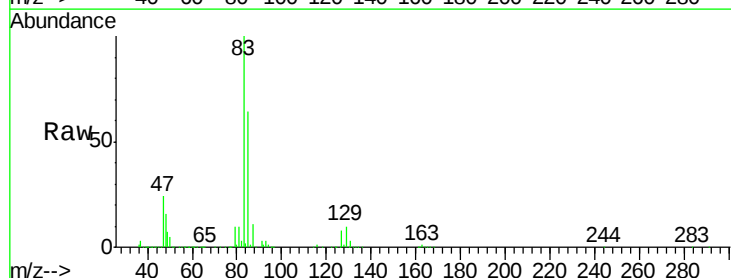
Tgt Ion: 83 Resp: 2051266

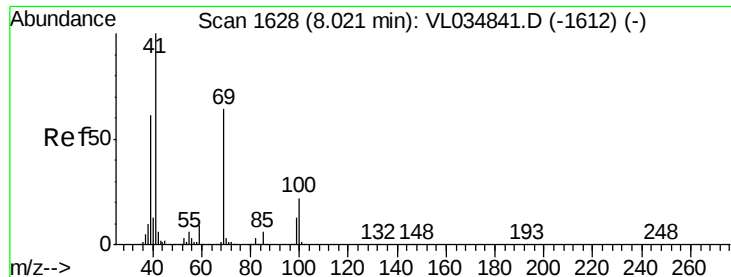
Ion Ratio Lower Upper

83 100

85 63.9 51.4 77.2

127 8.0 6.2 9.4





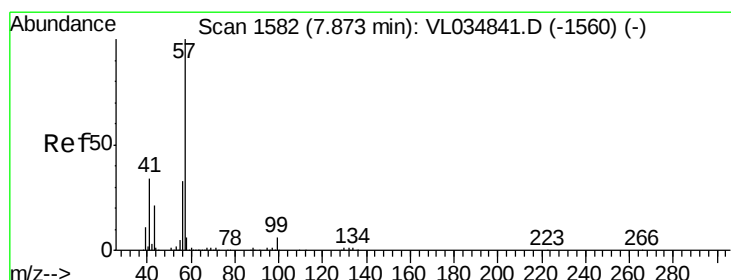
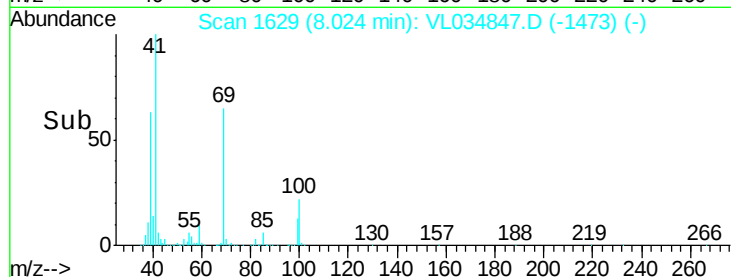
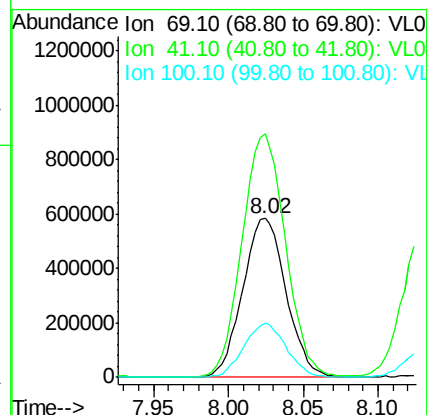
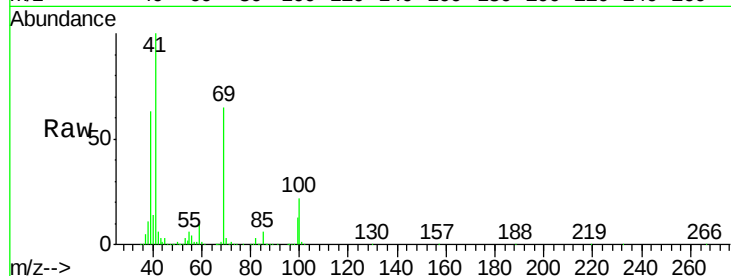
#43
Methvl Methacrilate
Concen: 15.190 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1176187
Ion Ratio Lower Upper
69 100
41 153.9 123.2 184.8
100 33.4 26.9 40.3

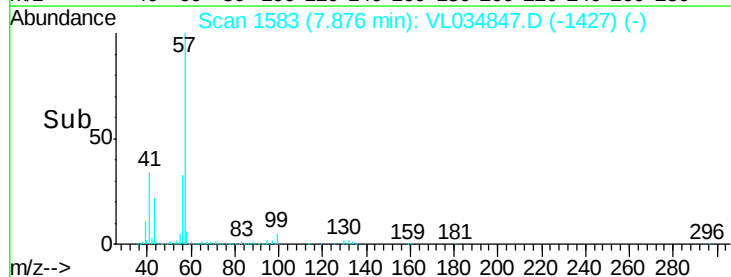
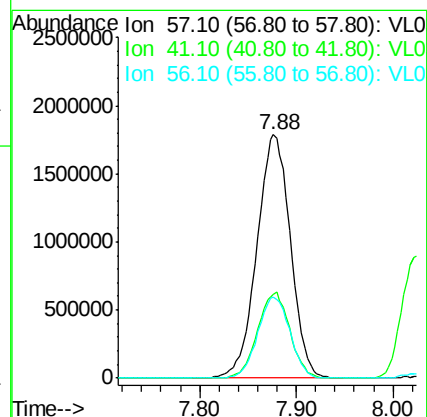
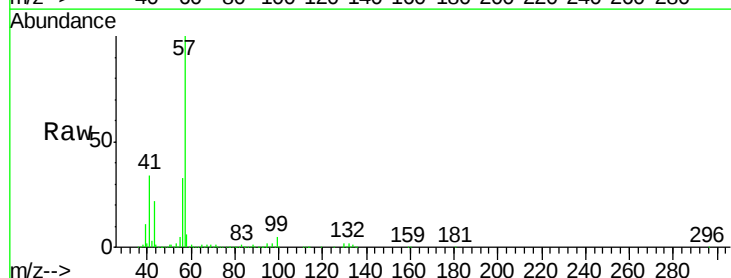
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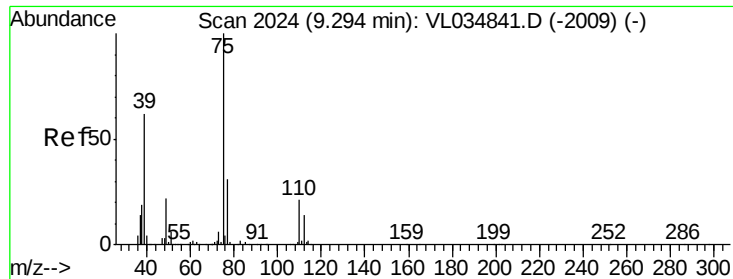
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#44
2,2,4-Trimethylpentane
Concen: 13.464 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 57 Resp: 4299434
Ion Ratio Lower Upper
57 100
41 33.8 26.2 39.4
56 32.1 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 17.963 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1460206

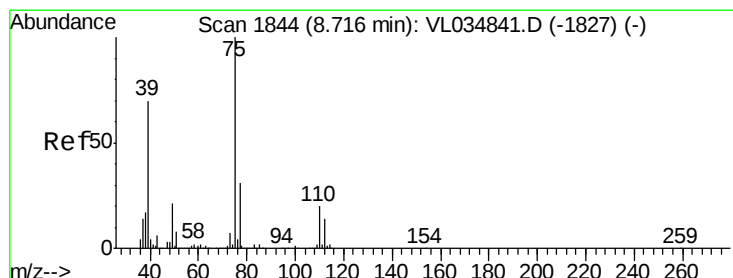
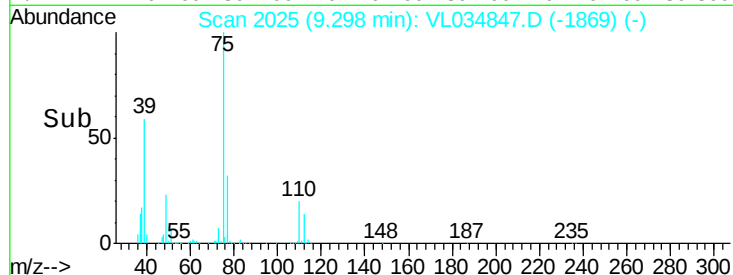
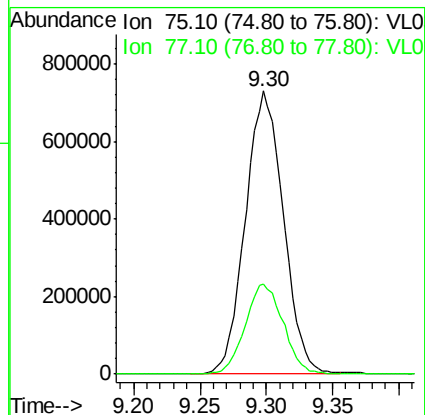
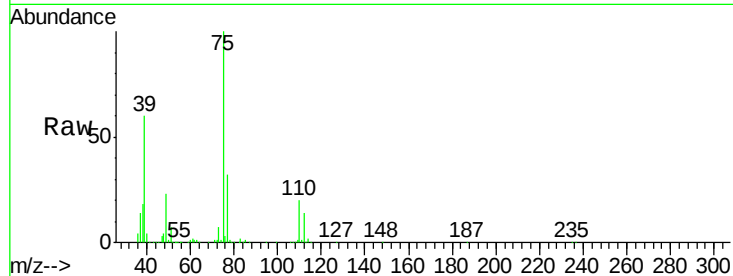
Ion Ratio Lower Upper

75 100

77 31.9 24.6 37.0

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#46

cis-1,3-Dichloropropene

Concen: 16.692 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

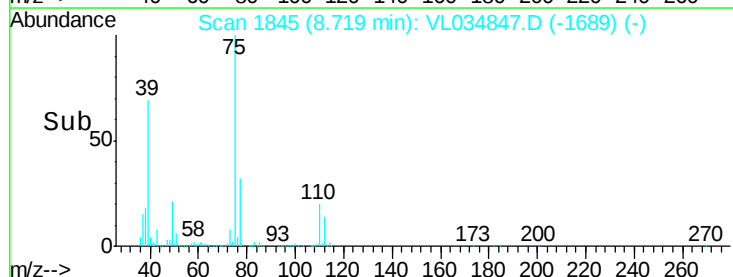
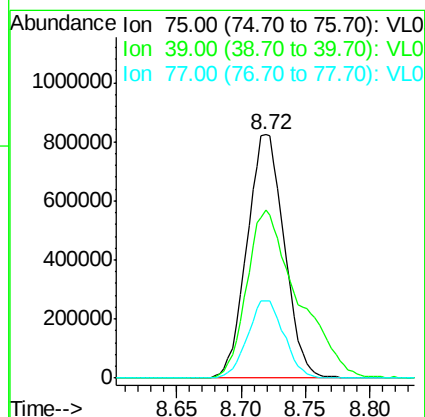
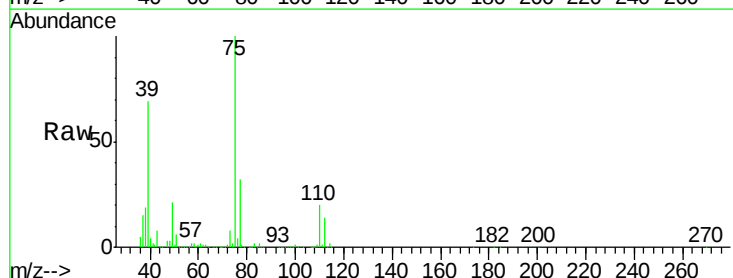
Tgt Ion: 75 Resp: 1656887

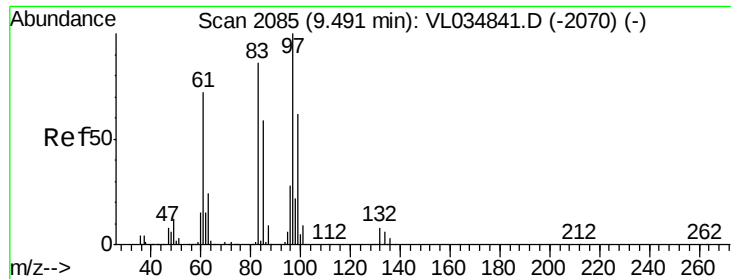
Ion Ratio Lower Upper

75 100

39 69.0 55.7 83.5

77 31.8 24.7 37.1





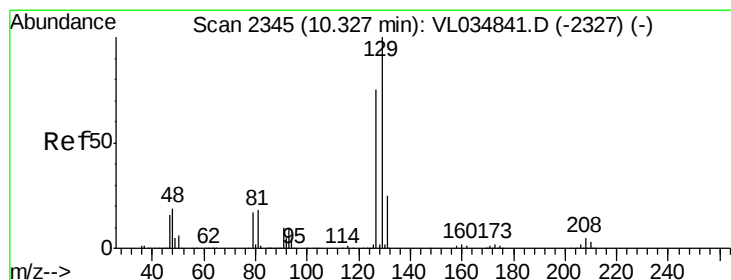
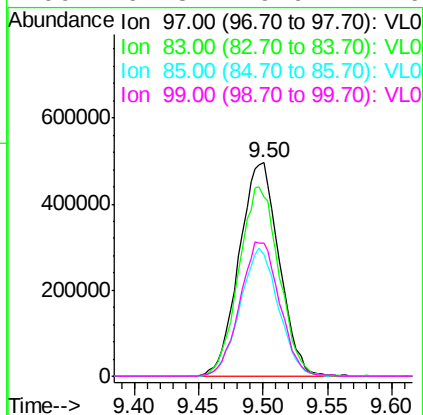
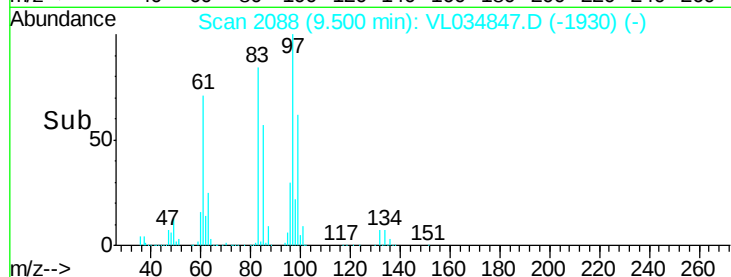
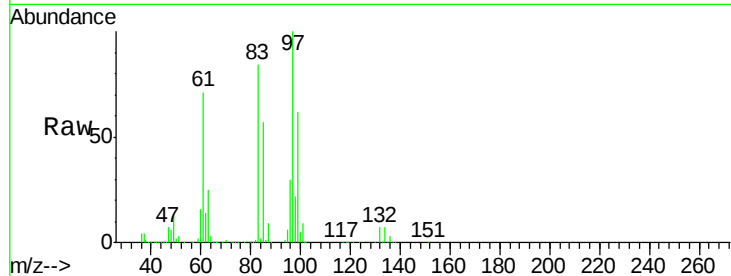
#47
 1,1,2-Trichloroethane
 Concen: 13.779 ppbv
 RT: 9.50 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 1072749
 Ion Ratio Lower Upper
 97 100
 83 83.6 68.6 102.8
 85 56.9 46.9 70.3
 99 62.3 49.9 74.9

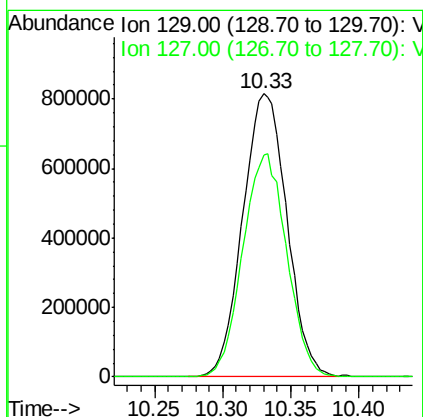
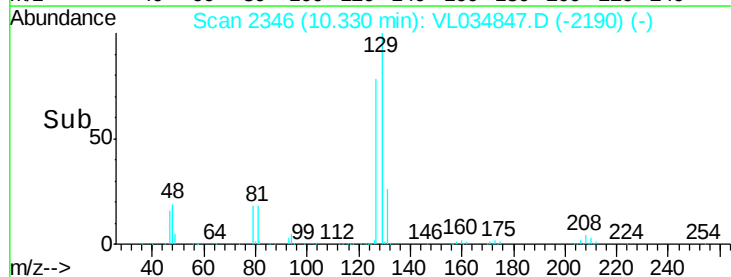
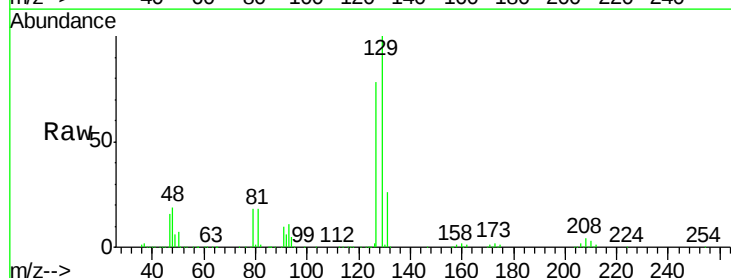
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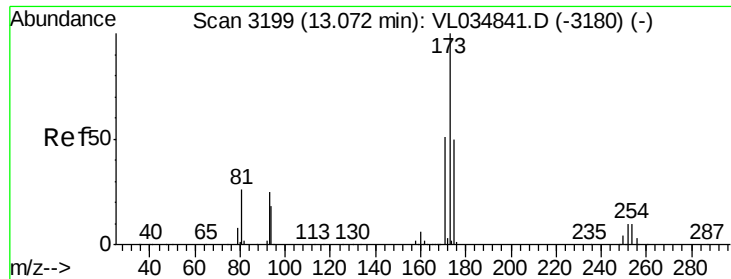
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#48
 Dibromochloromethane
 Concen: 15.025 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. 0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion: 129 Resp: 1829159
 Ion Ratio Lower Upper
 129 100
 127 78.5 39.6 118.7





#49

Bromoform

Concen: 15.775 ppbv

RT: 13.08 min Scan# 3201

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 1675810

Ion Ratio Lower Upper

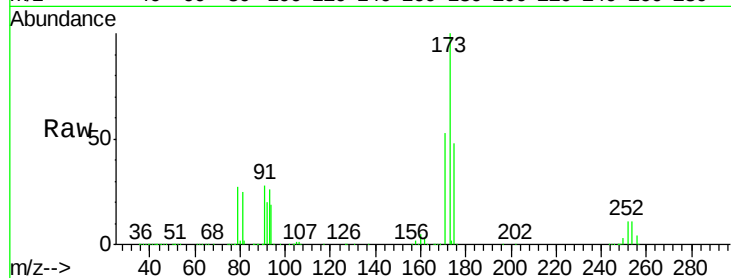
173 100

175 49.9 39.6 59.4

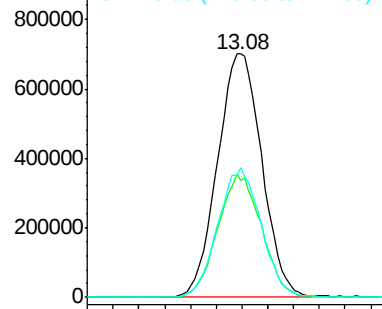
171 52.0 41.0 61.6

Manual Integrations
APPROVED

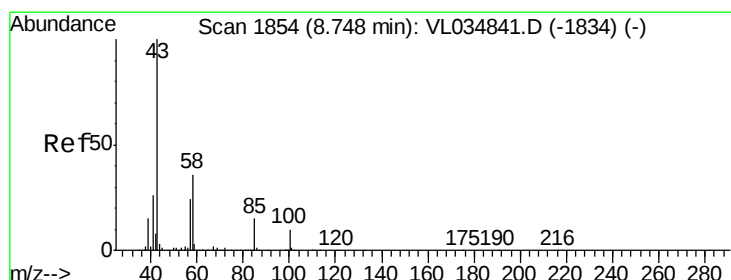
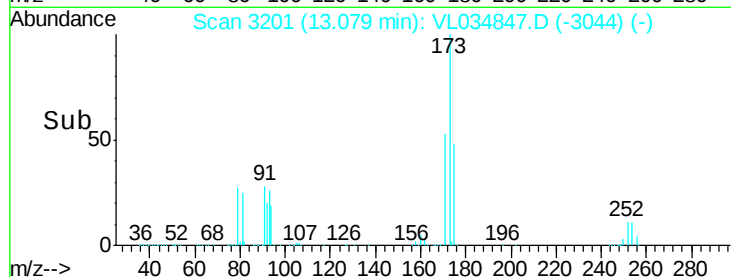
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



Time-->



#50

4-Methyl-2-Pentanone

Concen: 14.478 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VL034847.D

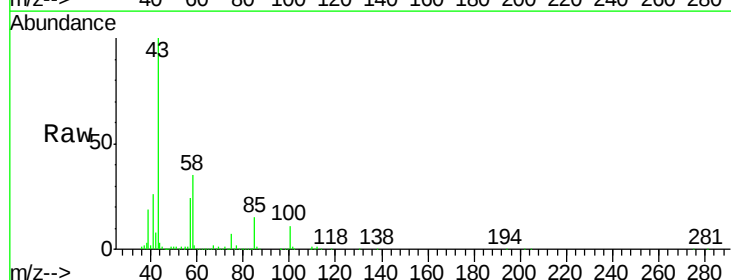
Acq: 9 Mar 2020 16:09

Tgt Ion: 43 Resp: 2886040

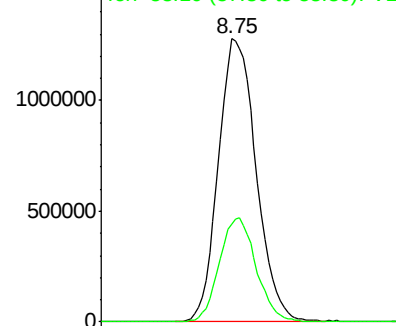
Ion Ratio Lower Upper

43 100

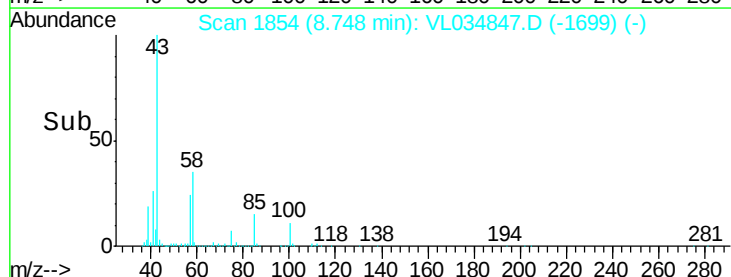
58 35.9 28.6 42.8

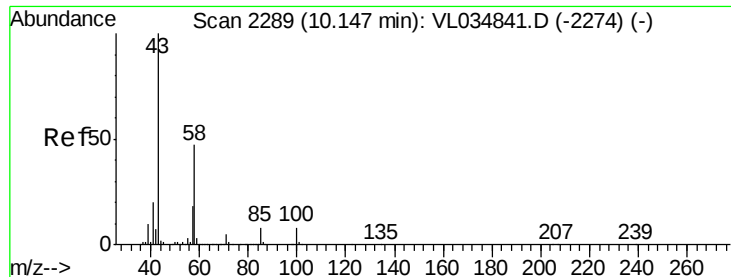


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0



Time-->





#51

2-Hexanone

Concen: 15.544 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2430544

Ion Ratio Lower Upper

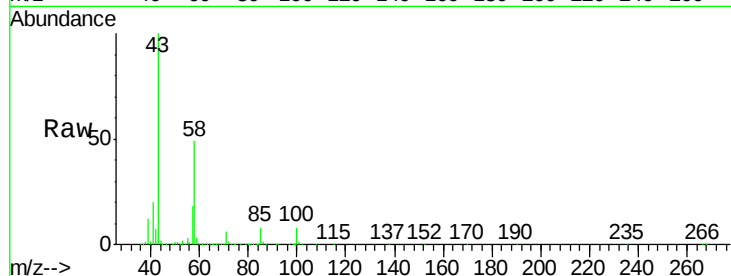
43 100

58 48.4 38.6 58.0

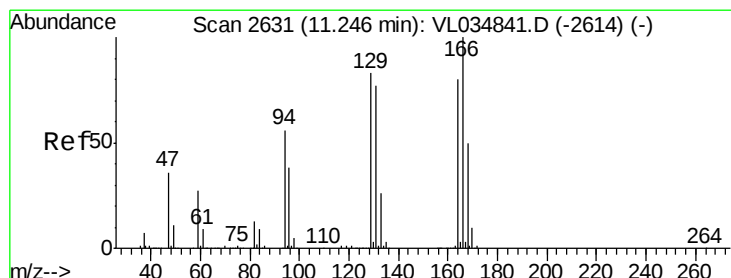
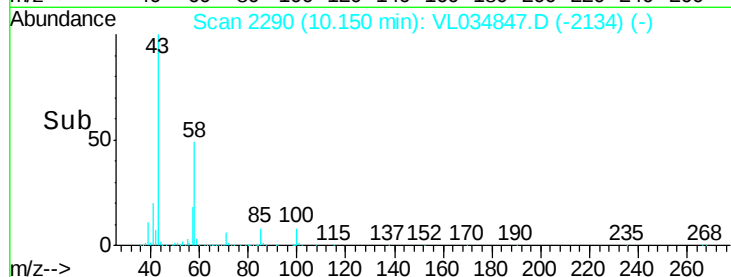
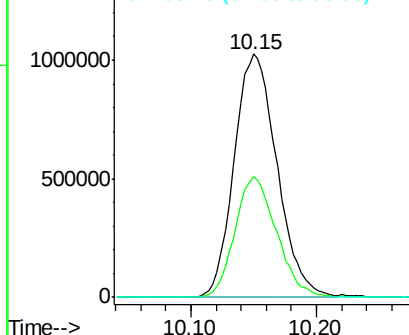
98 0.1 0.1 0.1#

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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: 14.232 ppbv

RT: 11.25 min Scan# 2632

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Tgt Ion: 164 Resp: 960831

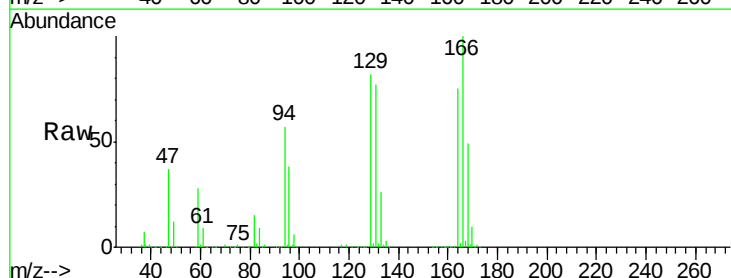
Ion Ratio Lower Upper

164 100

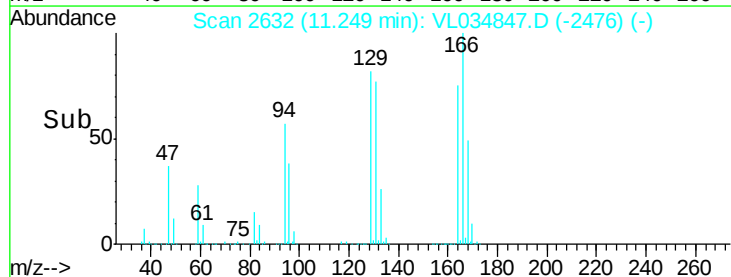
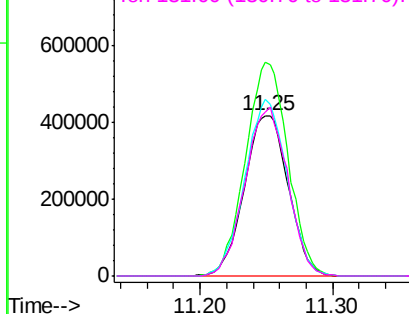
166 133.0 100.0 150.0

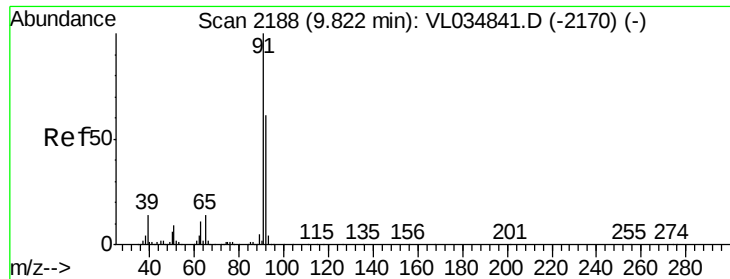
129 109.5 83.1 124.7

131 101.9 77.2 115.8



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: 15.738 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3043738

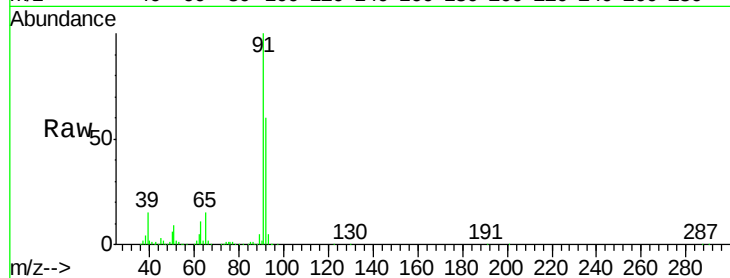
Ion Ratio Lower Upper

91 100

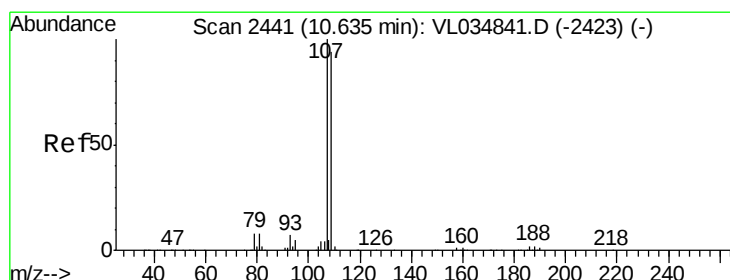
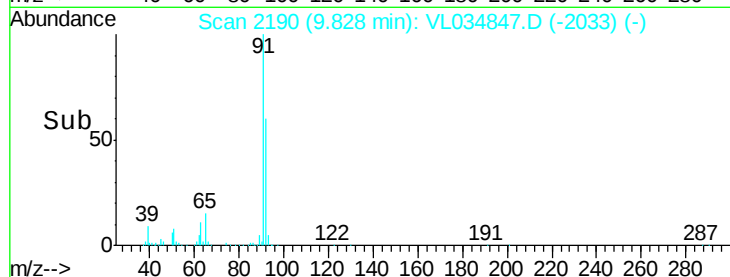
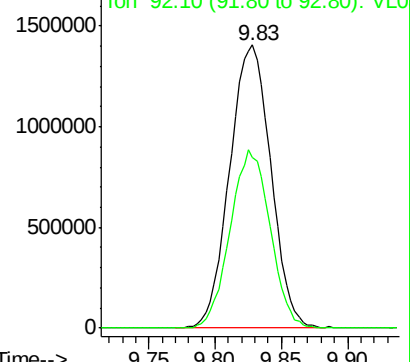
92 61.2 48.6 72.8

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Abundance Ion 91.10 (90.80 to 91.80): VL0



#54

1,2-Dibromoethane

Concen: 14.285 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. 0.00 min

Lab File: VL034847.D

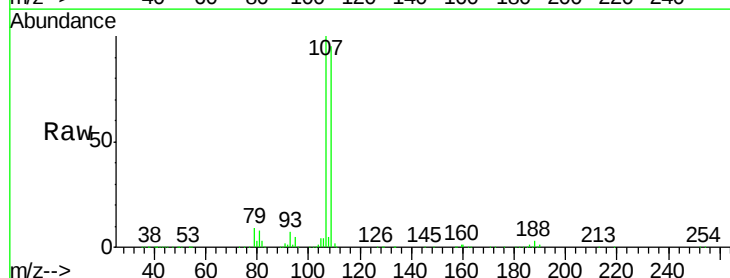
Acq: 9 Mar 2020 16:09

Tgt Ion: 107 Resp: 1644548

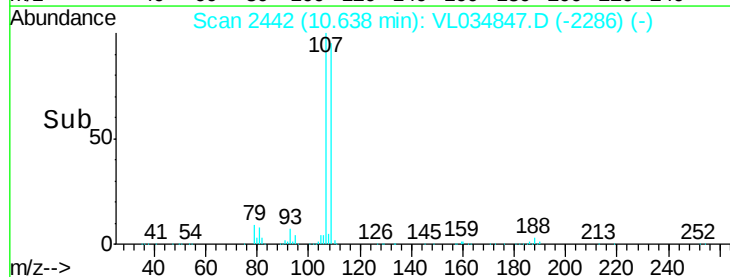
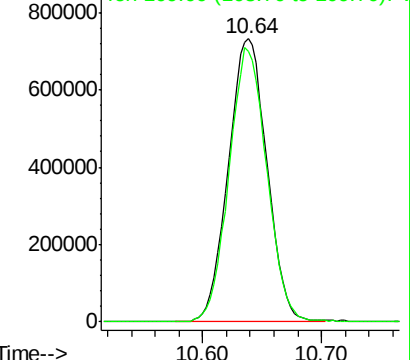
Ion Ratio Lower Upper

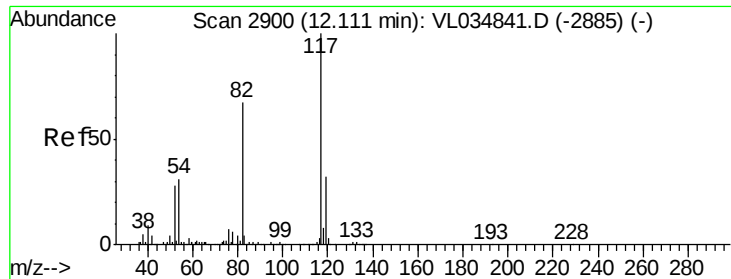
107 100

109 95.4 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V





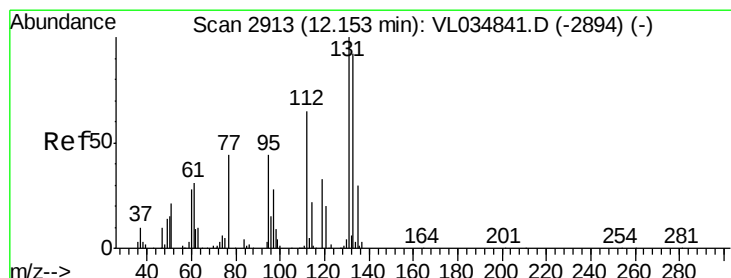
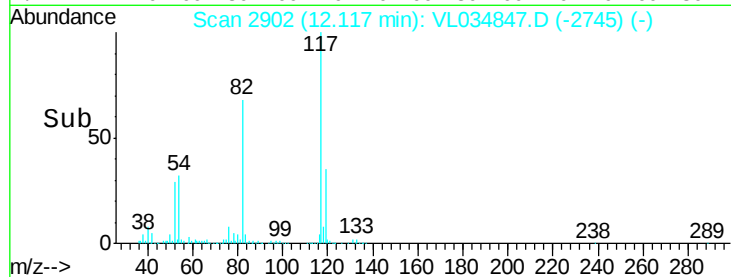
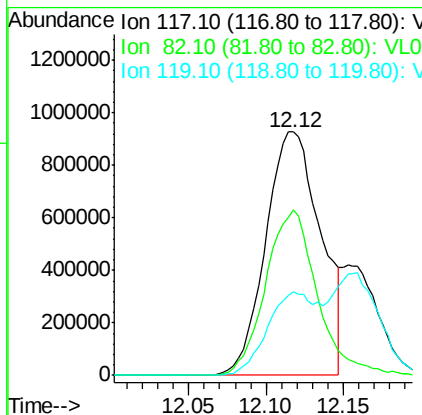
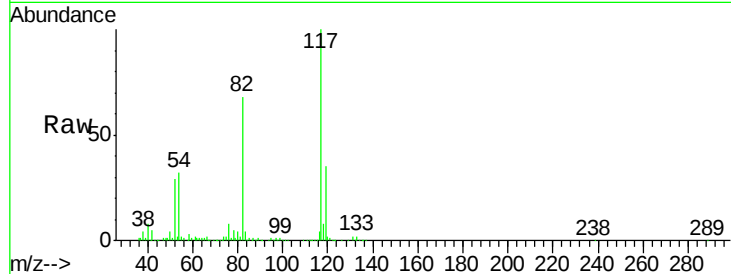
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 2290762
Ion Ratio Lower Upper
117 100
82 64.3 51.1 76.7
119 31.9 27.3 40.9

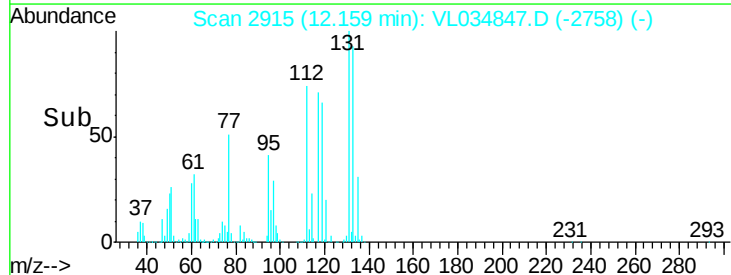
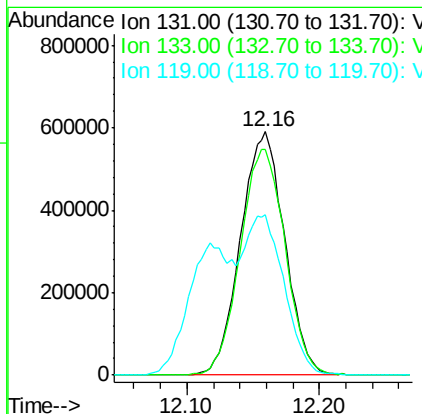
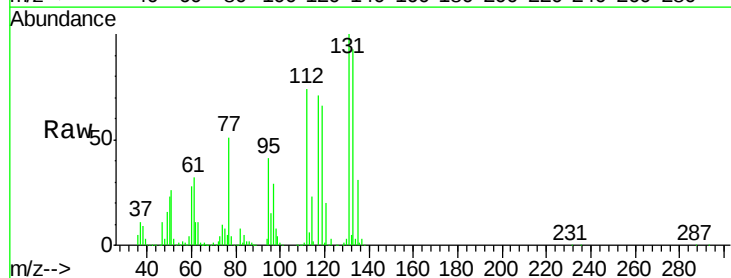
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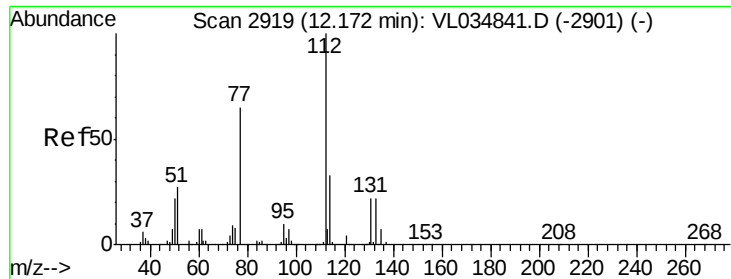
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#56
1,1,1,2-Tetrachloroethane
Concen: 13.392 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion:131 Resp: 1359264
Ion Ratio Lower Upper
131 100
133 94.9 76.0 114.0
119 68.3 47.8 71.8





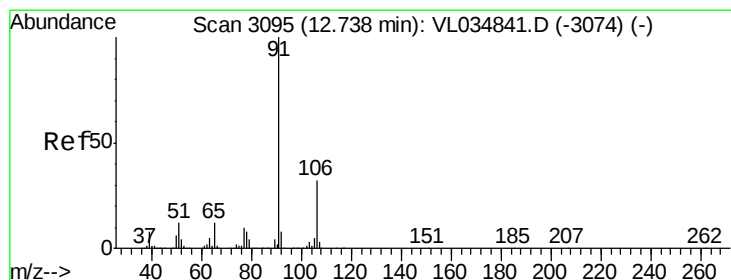
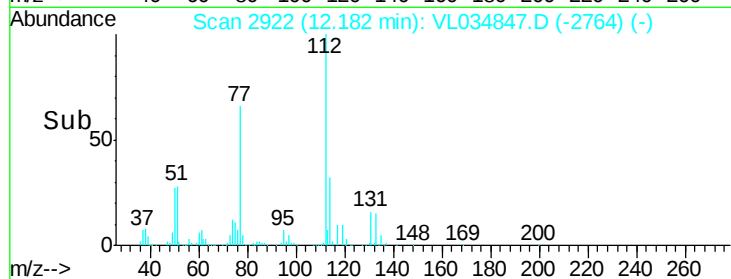
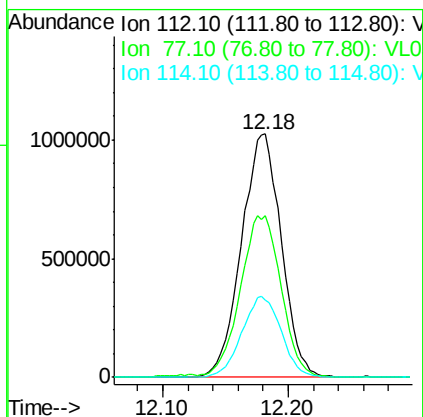
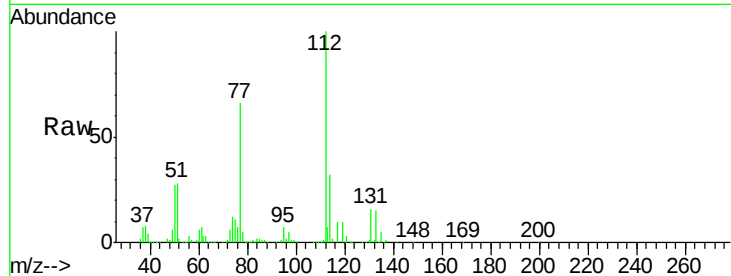
#57
Chlorobenzene
Concen: 12.942 ppbv
RT: 12.18 min Scan# 2922
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:112 Resp: 2264646
Ion Ratio Lower Upper
112 100
77 65.9 53.0 79.6
114 31.8 29.5 36.1

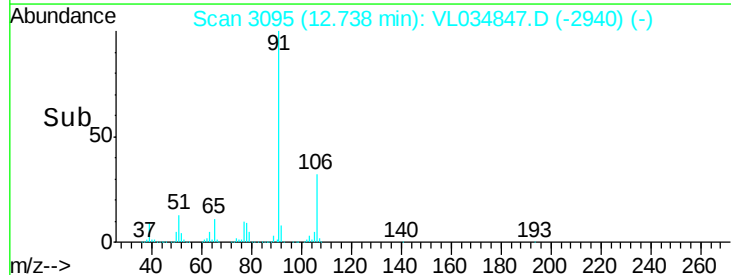
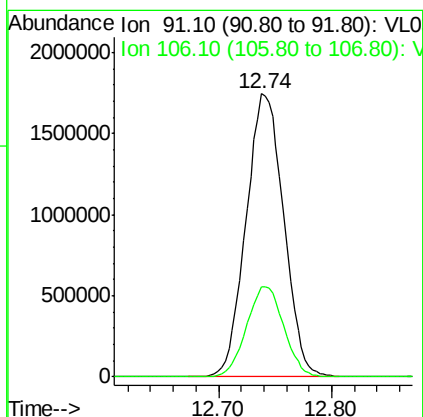
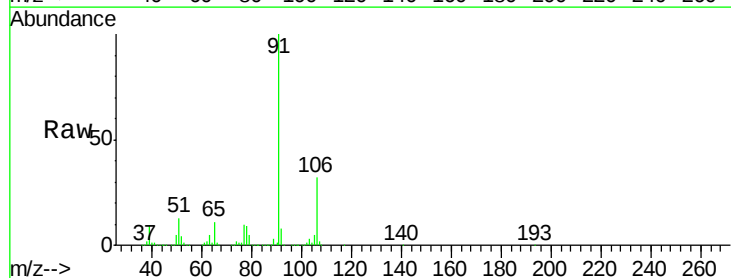
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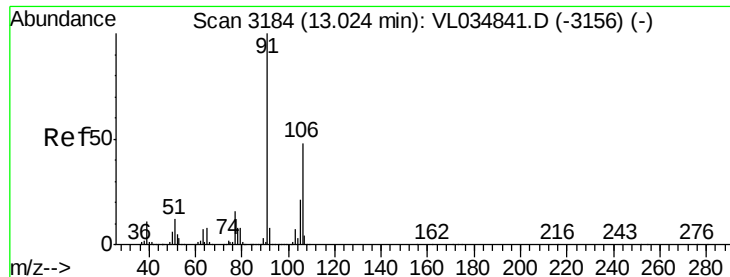
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#58
Ethyl Benzene
Concen: 14.320 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 91 Resp: 4042558
Ion Ratio Lower Upper
91 100
106 31.8 25.8 38.6





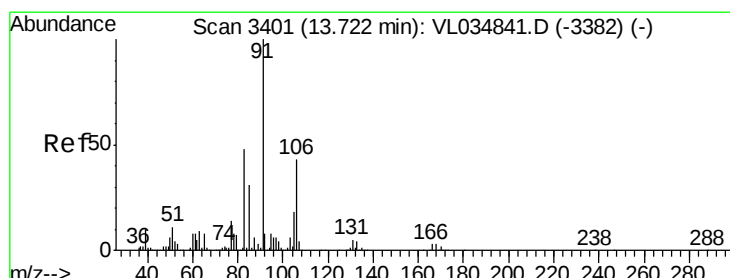
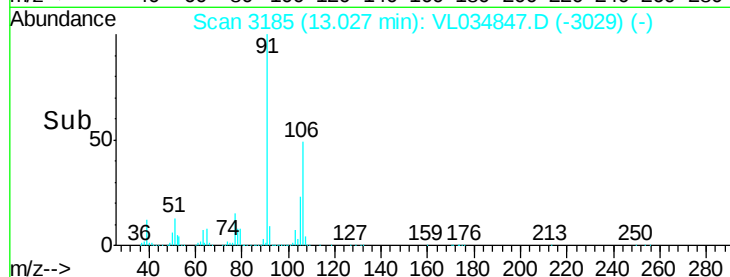
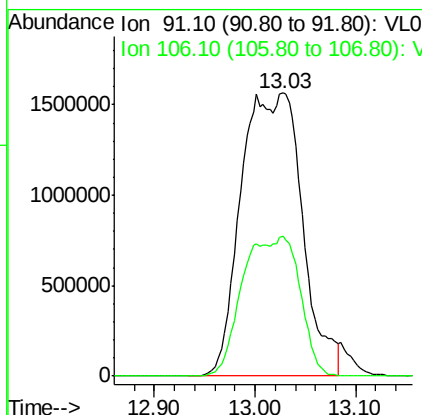
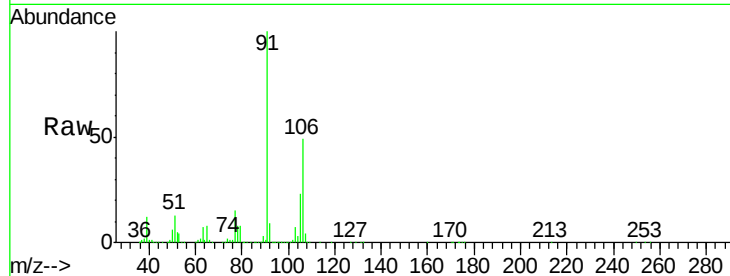
#59
m/p-Xylene
Concen: 26.965 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 6589466
Ion Ratio Lower Upper
91 100
106 46.4 37.1 55.7

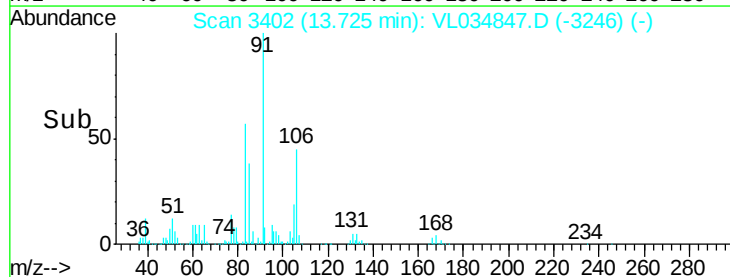
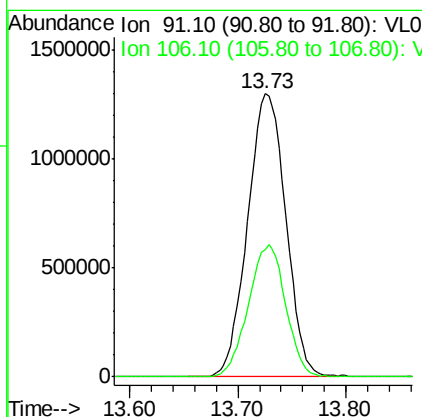
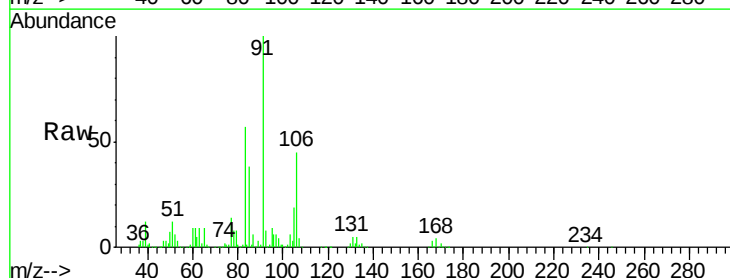
Manual Integrations
APPROVED

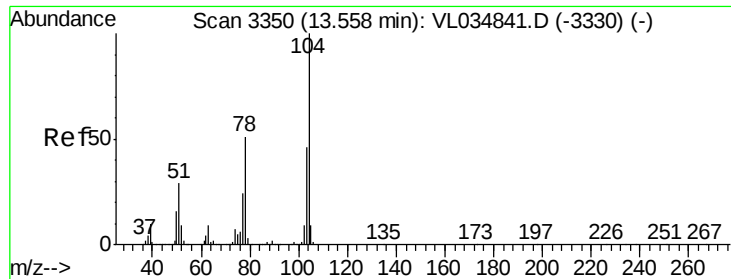
MMDadoda
3/11/2020 3:26:08 PM



#60
o-Xylene
Concen: 12.884 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 91 Resp: 3185599
Ion Ratio Lower Upper
91 100
106 45.7 22.5 67.5





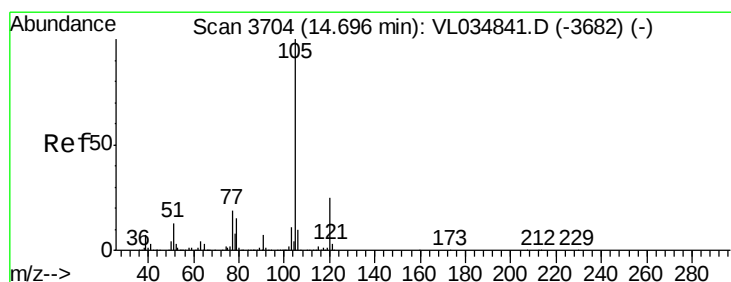
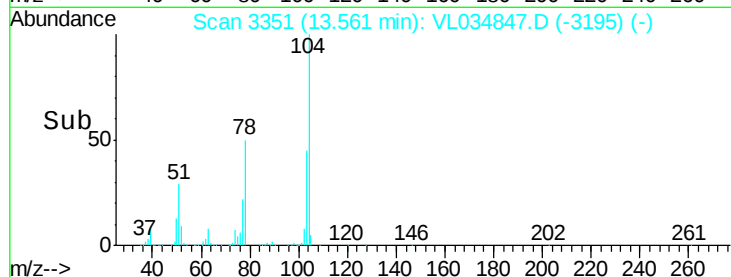
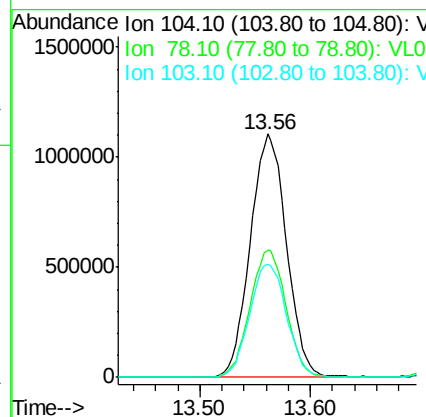
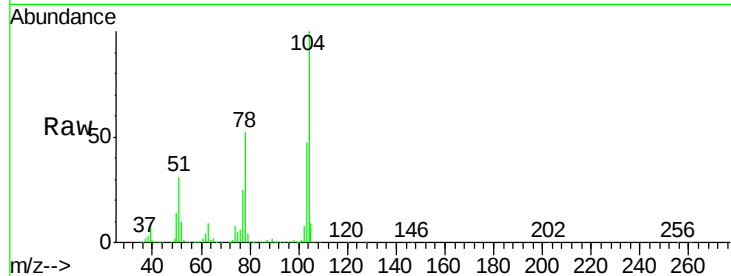
#61
Stvrene
Concen: 16.371 ppbv
RT: 13.56 min Scan# 3351
Delta R.T. 0.00 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.5	41.8	62.6
103	47.7	37.8	56.6

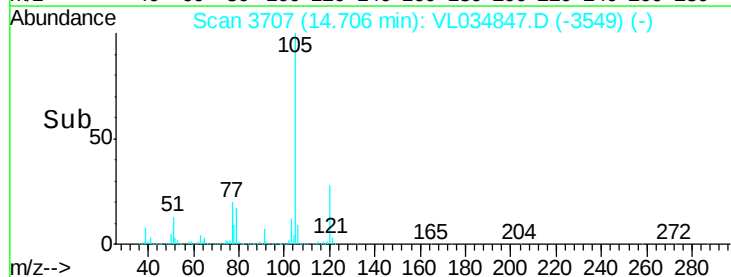
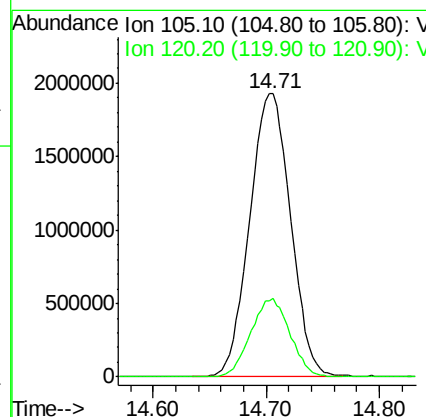
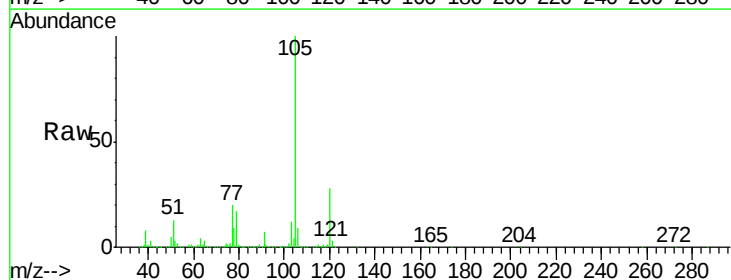
Manual Integrations
APPROVED

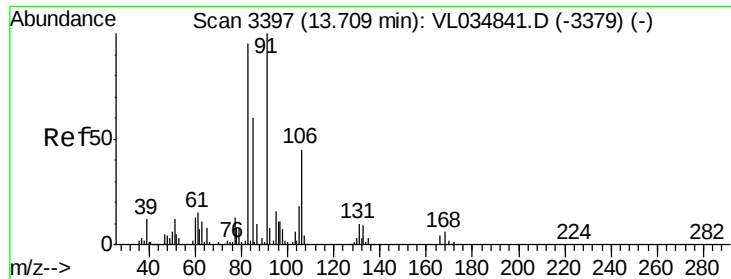
MMDadoda
3/11/2020 3:26:08 PM



#62
Isopropylbenzene
Concen: 13.331 ppbv
RT: 14.71 min Scan# 3707
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	21.0	31.4





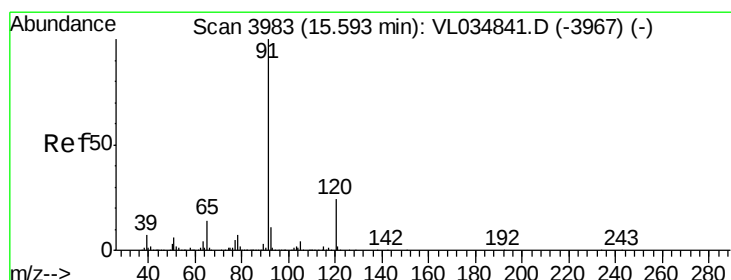
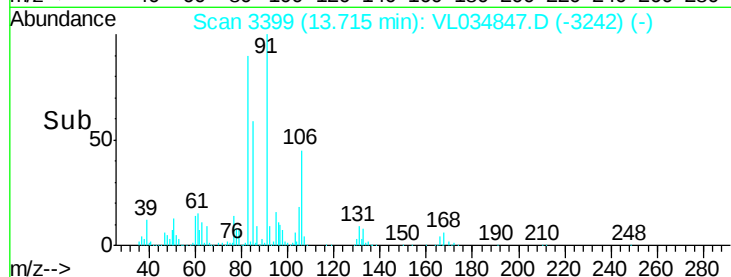
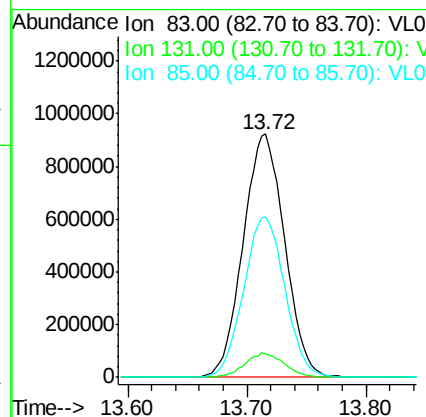
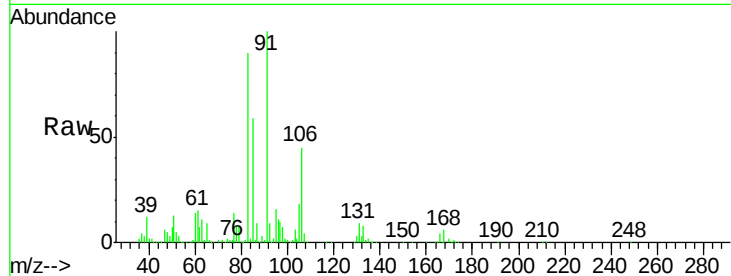
#63
1,1,2,2-Tetrachloroethane
Concen: 11.438 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2229396
Ion Ratio Lower Upper
83 100
131 9.5 5.0 14.9
85 65.6 32.4 97.2

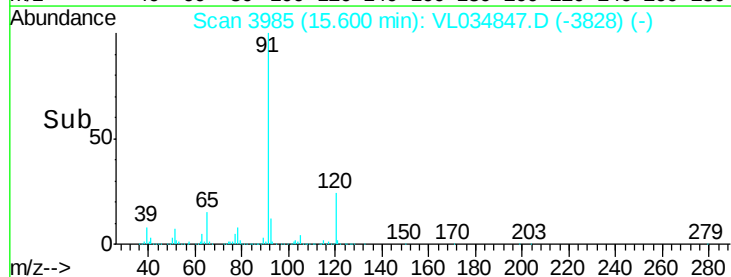
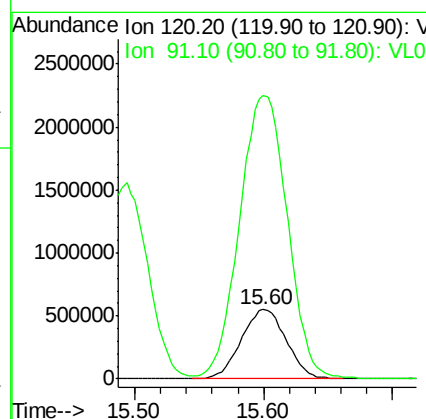
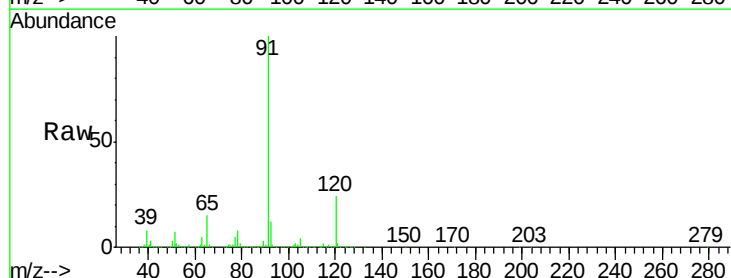
Manual Integrations
APPROVED

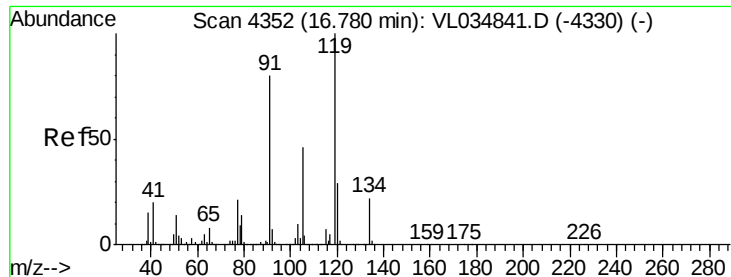
MMDadoda
3/11/2020 3:26:08 PM



#64
n-propylbenzene
Concen: 14.675 ppbv
RT: 15.60 min Scan# 3985
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion: 120 Resp: 1339018
Ion Ratio Lower Upper
120 100
91 433.9 360.9 541.3





#65

tert-Butylbenzene

Concen: 13.735 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 4223866

Ion Ratio Lower Upper

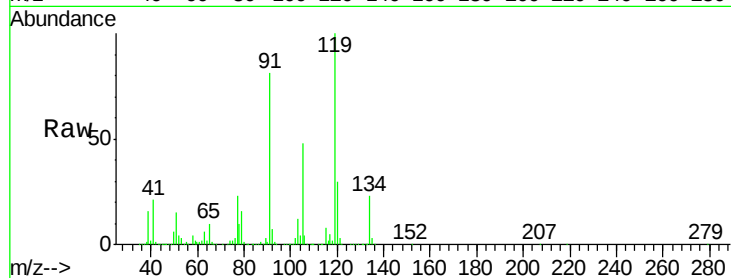
119 100

91 81.8 64.9 97.3

134 20.5 15.9 23.9

Manual Integrations
APPROVED

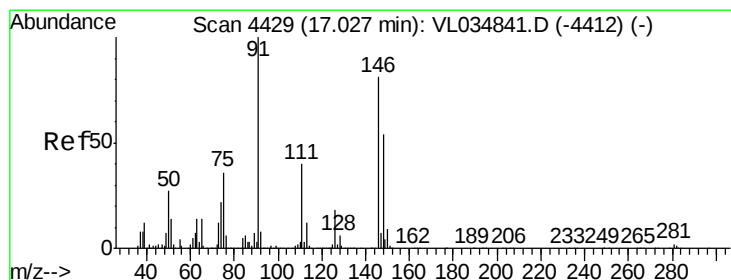
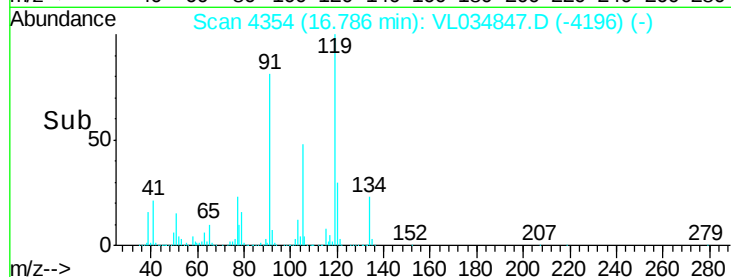
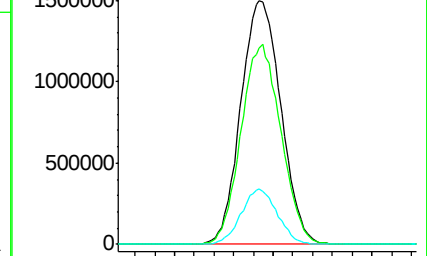
MMDadoda
3/11/2020 3:26:08 PM



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: 20.835 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

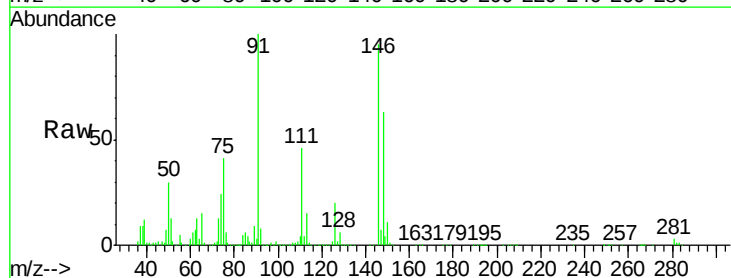
Tgt Ion: 91 Resp: 2071483

Ion Ratio Lower Upper

91 100

126 18.6 14.7 22.1

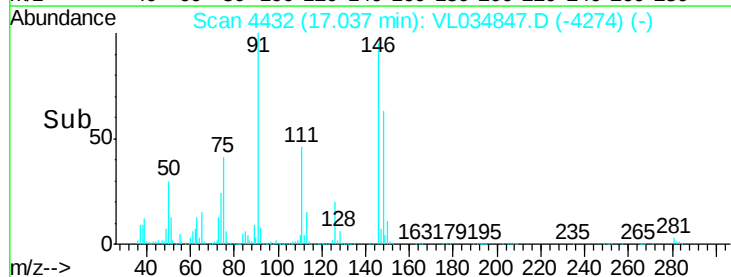
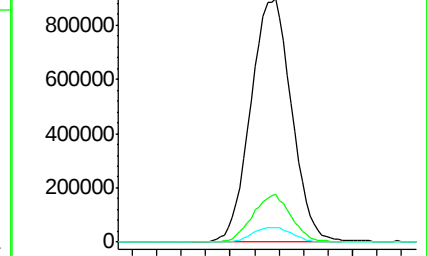
128 6.0 4.7 7.1

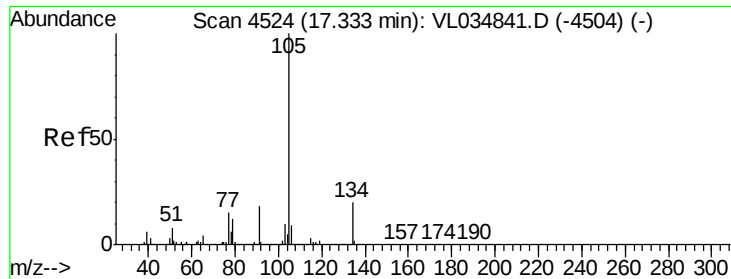


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





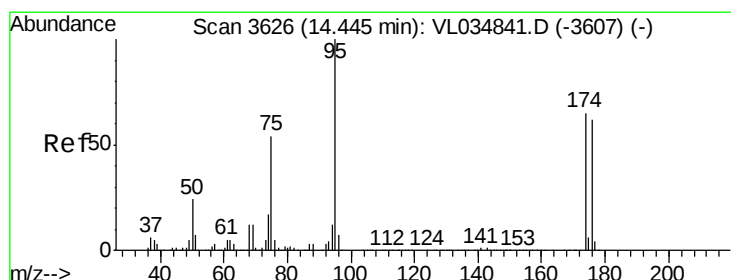
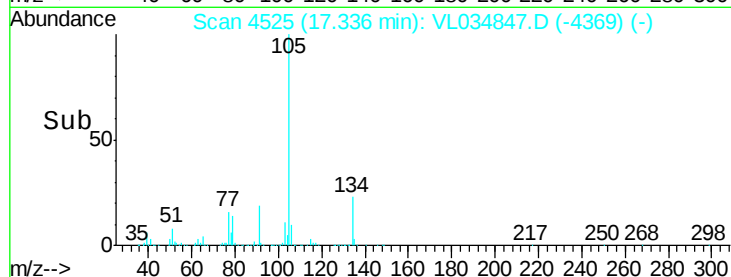
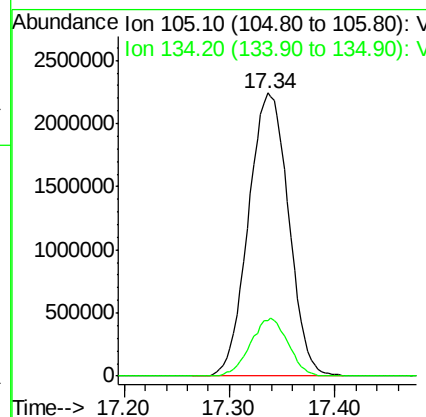
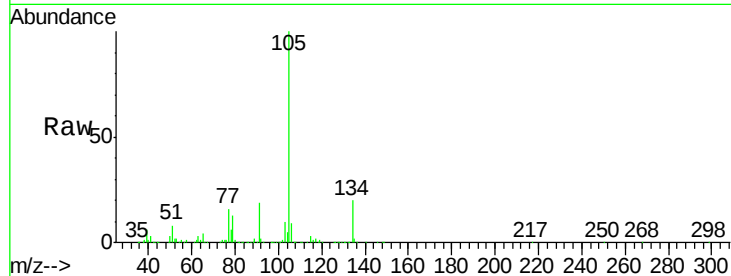
#67
 sec-Butylbenzene
 Concen: 13.252 ppbv
 RT: 17.34 min Scan# 4525
 Delta R.T. 0.00 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Tot Ion:105 Resp: 5938376
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.0 22.6

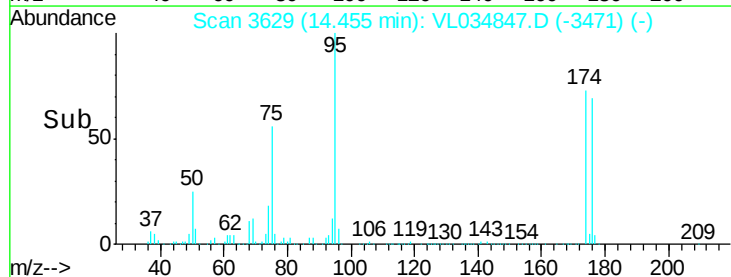
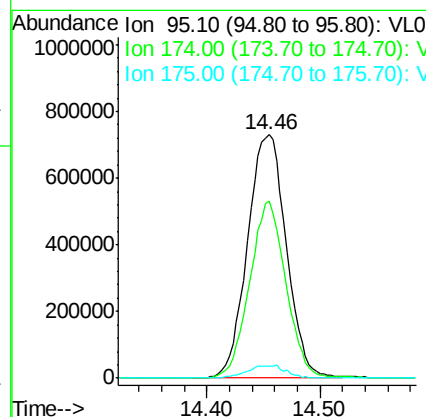
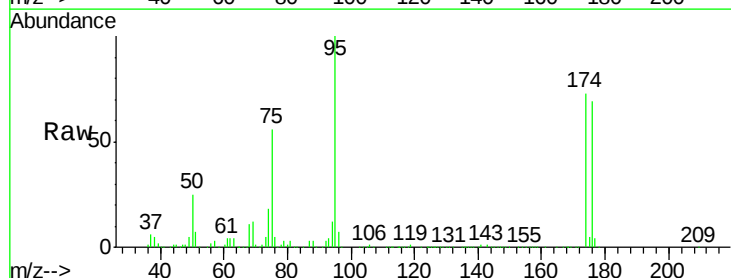
Manual Integrations
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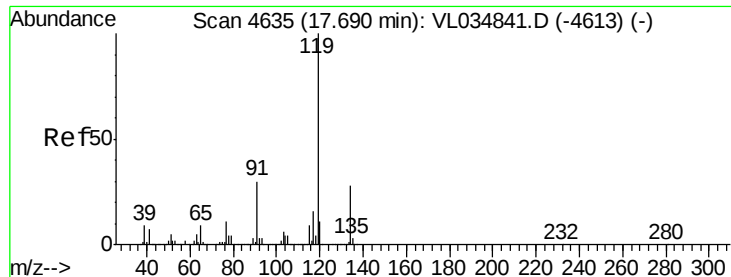
MMDadoda
 3/11/2020 3:26:08 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.117 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. 0.01 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion: 95 Resp: 1741401
 Ion Ratio Lower Upper
 95 100
 174 68.2 55.2 82.8
 175 5.2 4.3 6.5





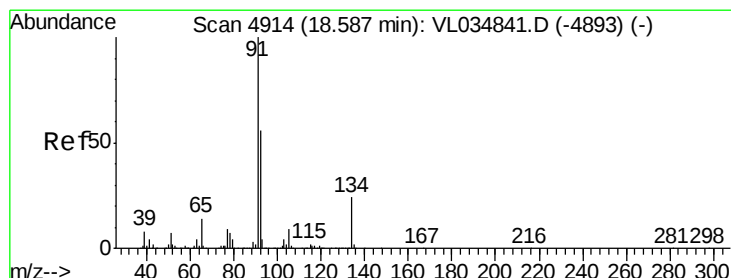
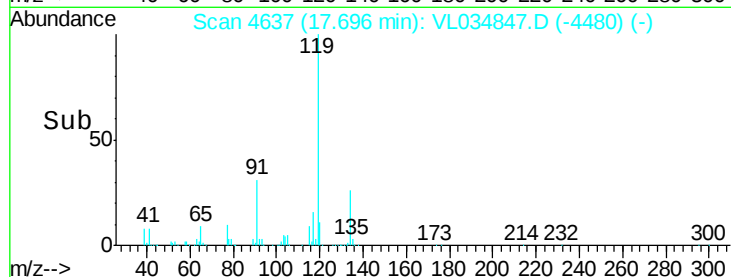
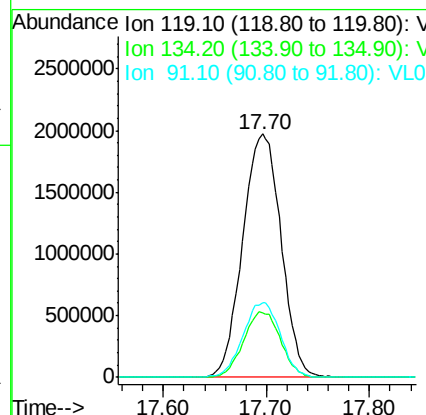
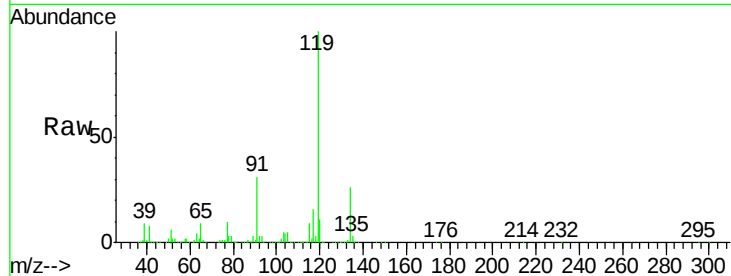
#69
p-Isopropyltoluene
Concen: 14.052 ppbv
RT: 17.70 min Scan# 4637
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.6	30.8
91	30.1	23.4	35.2

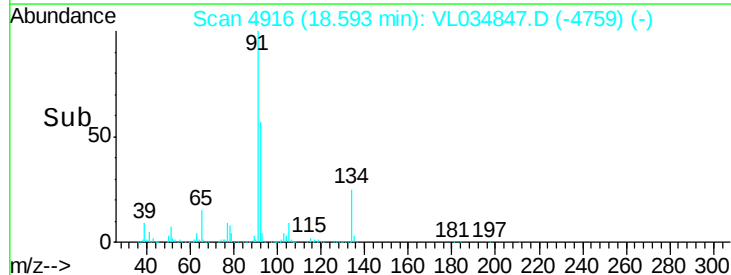
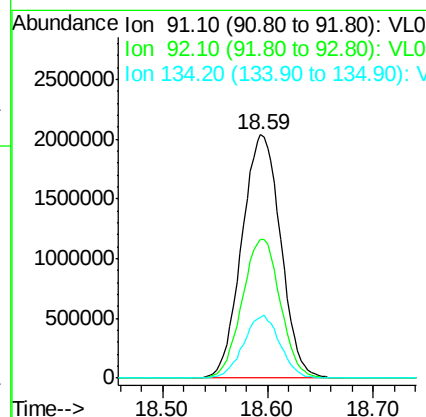
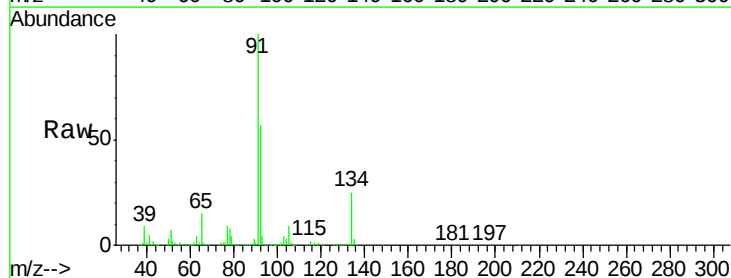
Manual Integrations
APPROVED

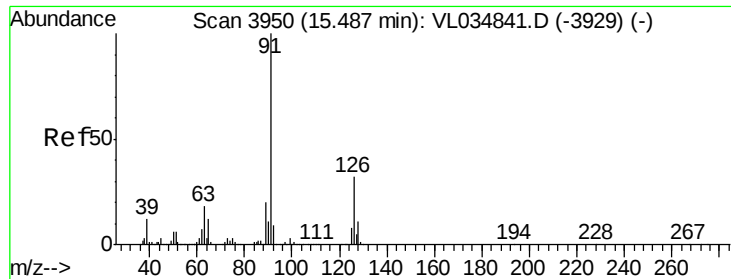
MMDadoda
3/11/2020 3:26:08 PM



#70
n-Butylbenzene
Concen: 13.115 ppbv
RT: 18.59 min Scan# 4916
Delta R.T. 0.01 min
Lab File: VL034847.D
Acq: 9 Mar 2020 16:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.2	43.8	65.6
134	24.3	19.0	28.4





#71

2-Chlorotoluene

Concen: 13.686 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3761605

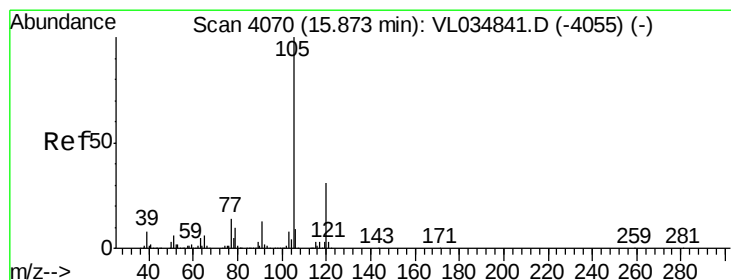
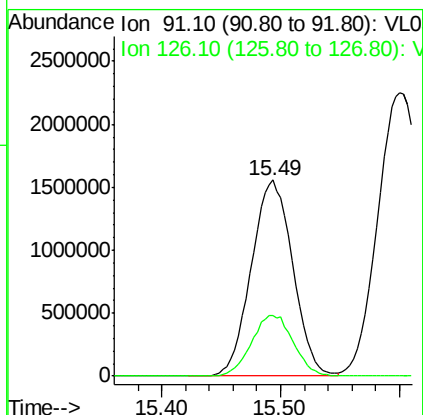
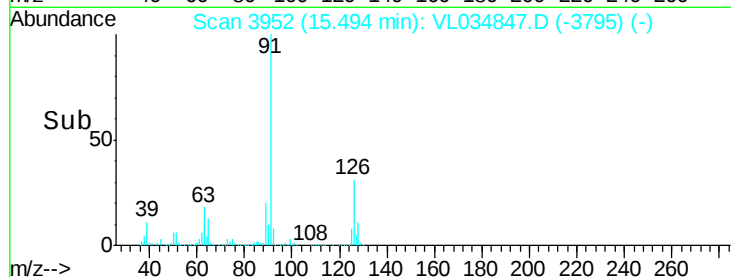
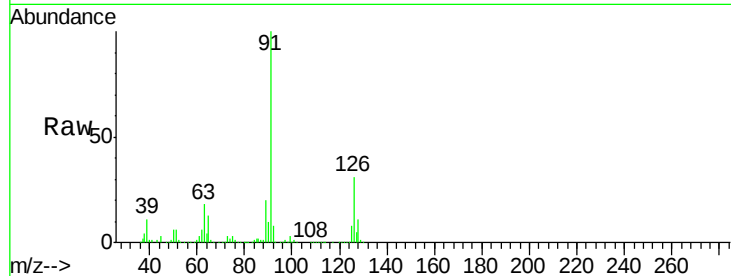
Ion Ratio Lower Upper

91 100

126 31.2 12.3 49.1

Manual Integrations
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#72

4-Ethyltoluene

Concen: 14.475 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Tgt Ion: 105 Resp: 3984727

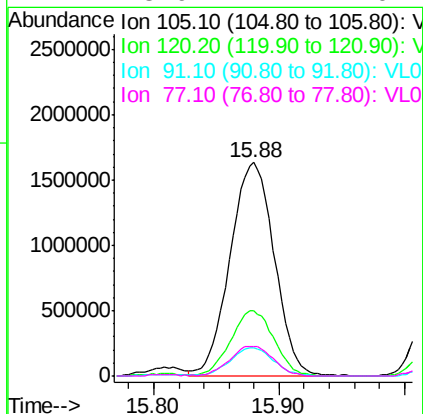
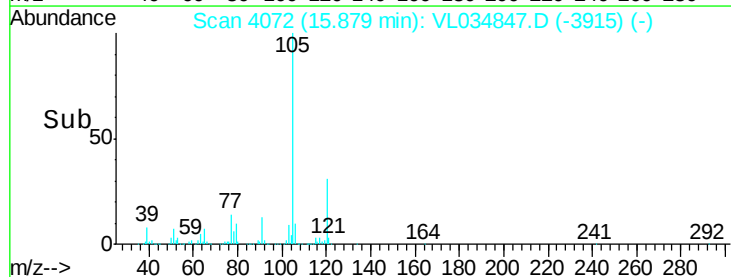
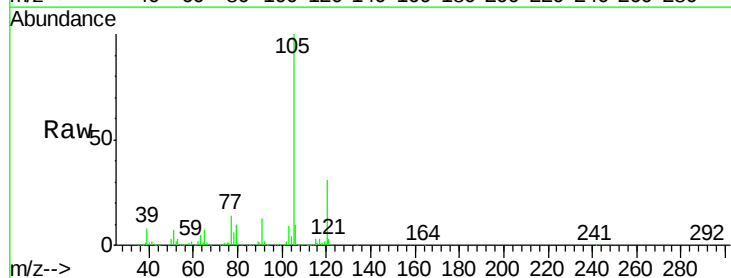
Ion Ratio Lower Upper

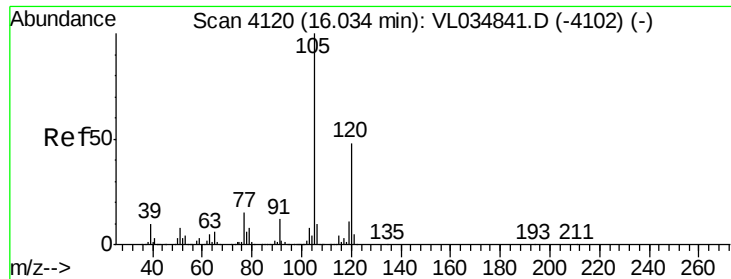
105 100

120 30.2 23.7 35.5

91 13.6 10.5 15.7

77 13.9 11.1 16.7





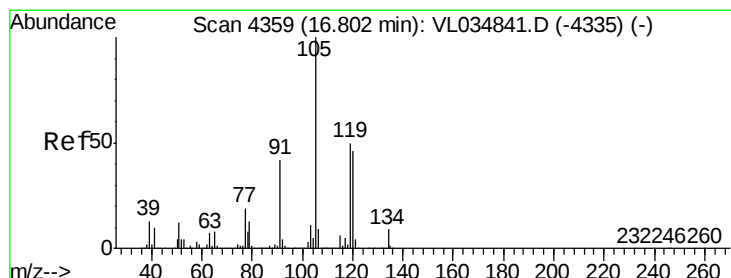
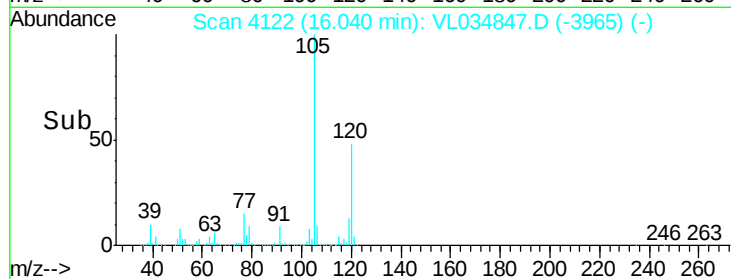
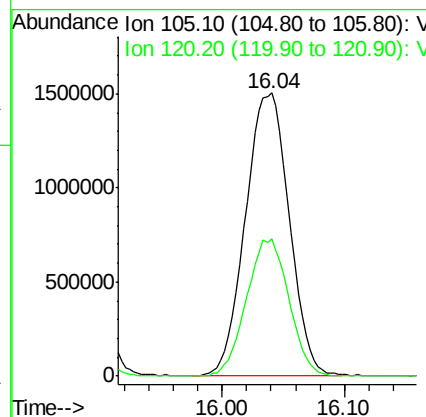
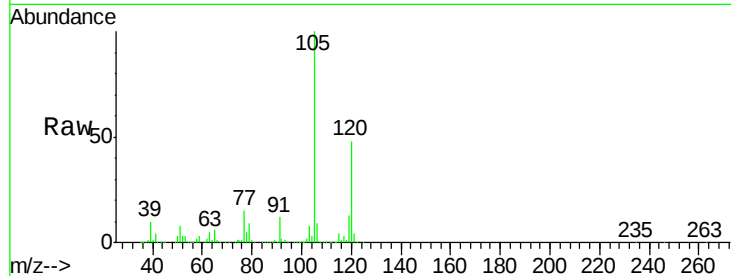
#73
 1,3,5-Trimethylbenzene
 Concen: 14.134 ppbv
 RT: 16.04 min Scan# 4122
 Delta R.T. 0.01 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 3732209
 Ion Ratio Lower Upper
 105 100
 120 48.4 38.6 58.0

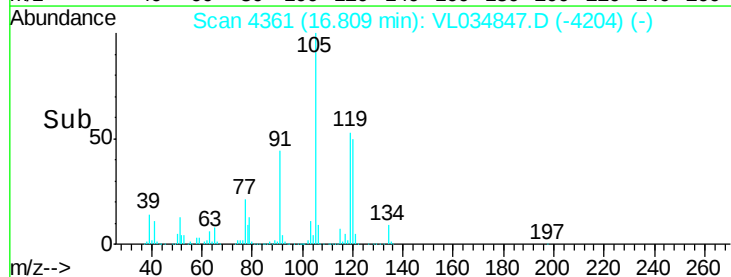
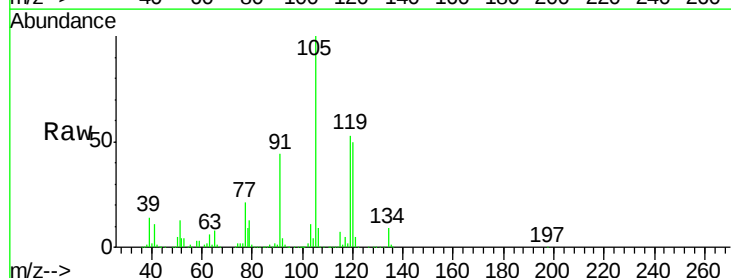
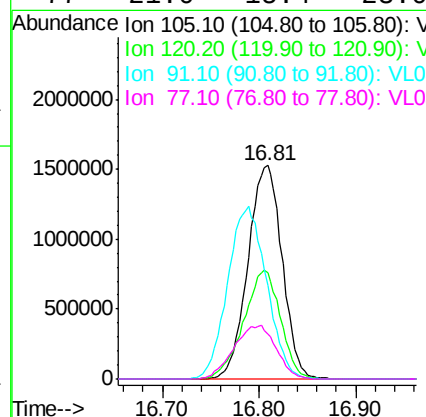
Manual Integrations
 APPROVED

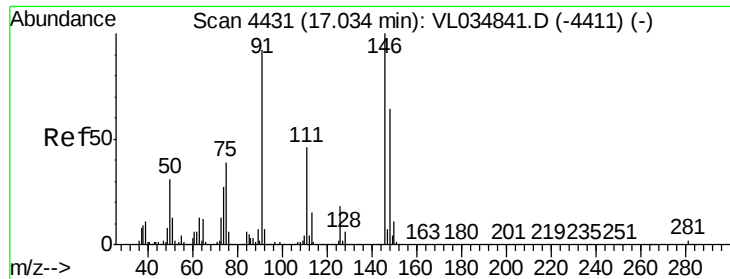
MMDadoda
 3/11/2020 3:26:08 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 13.048 ppbv
 RT: 16.81 min Scan# 4361
 Delta R.T. 0.01 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Tgt Ion:105 Resp: 3745572
 Ion Ratio Lower Upper
 105 100
 120 49.5 37.0 55.4
 91 43.6 33.8 50.6
 77 21.0 15.4 23.0





#75

1,3-Dichlorobenzene

Concen: 13.127 ppbv

RT: 17.04 min Scan# 4434

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2230645

Ion Ratio Lower Upper

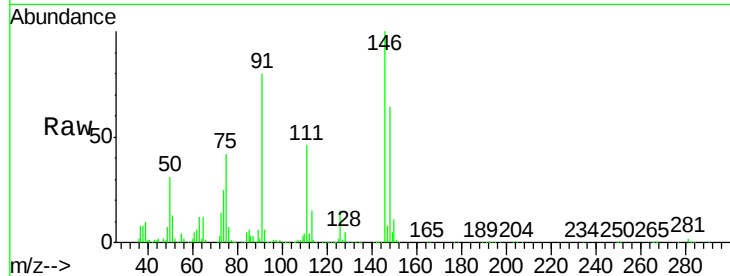
146 100

111 48.1 23.9 71.7

148 65.5 32.5 97.5

Manual Integrations
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MMDadoda
3/11/2020 3:26:08 PM

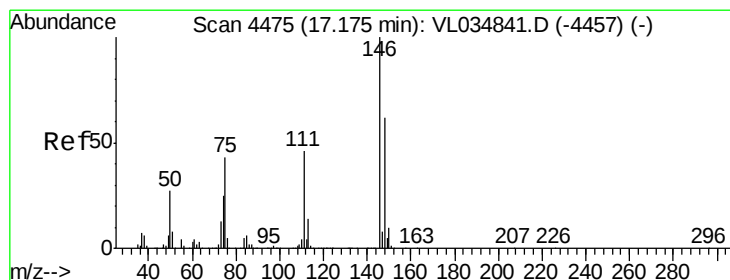
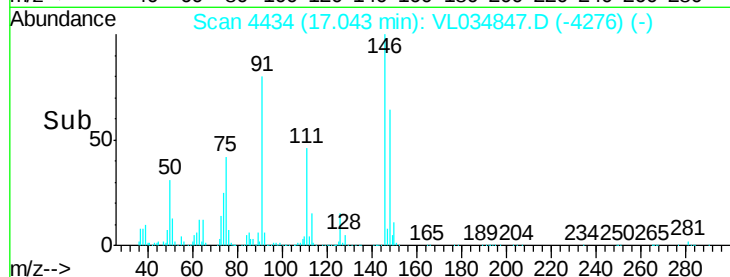
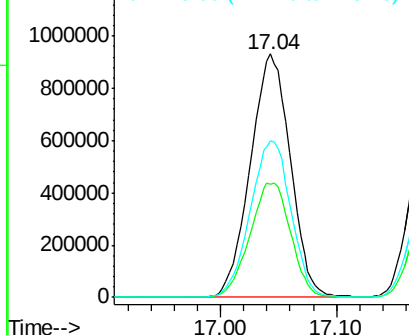


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 14.052 ppbv

RT: 17.18 min Scan# 4478

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

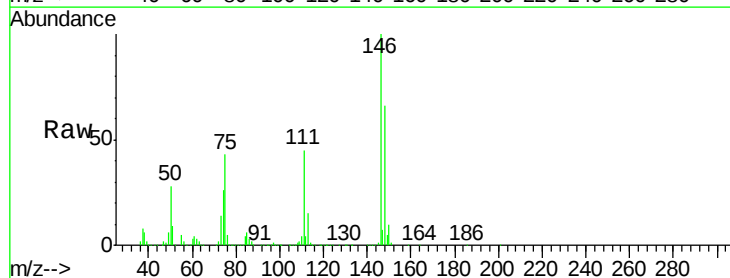
Tgt Ion:146 Resp: 2284950

Ion Ratio Lower Upper

146 100

111 47.1 23.4 70.2

148 65.9 32.3 96.9

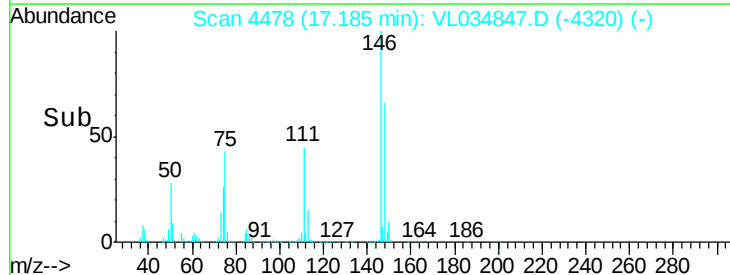
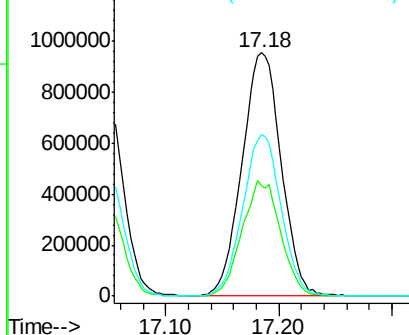


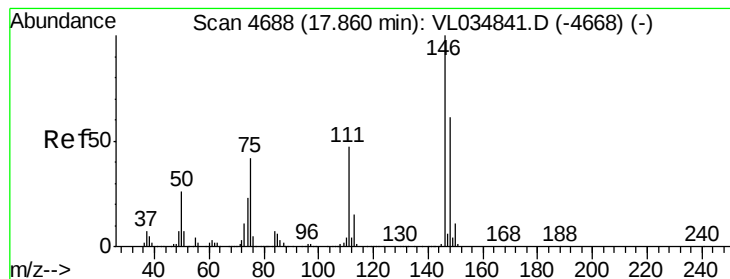
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 13.575 ppbv

RT: 17.86 min Scan# 4689

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2206709

Ion Ratio Lower Upper

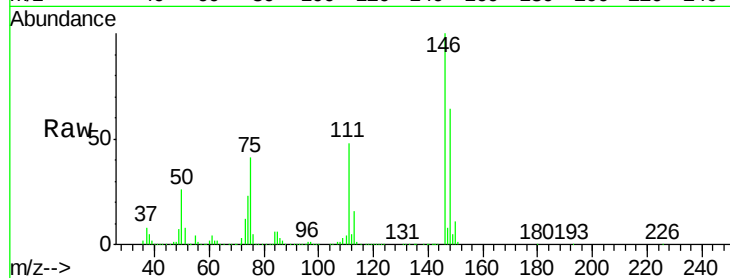
146 100

111 49.0 23.8 71.4

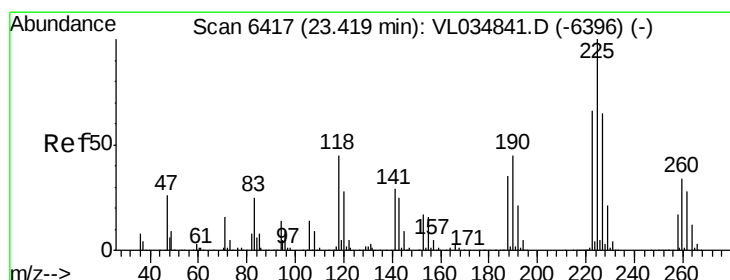
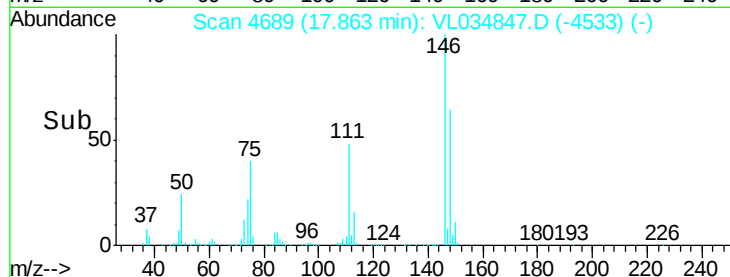
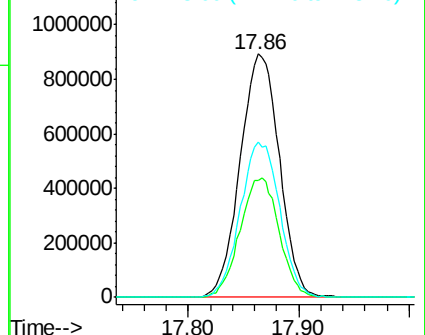
148 64.3 31.6 94.8

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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: 14.286 ppbv

RT: 23.42 min Scan# 6418

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

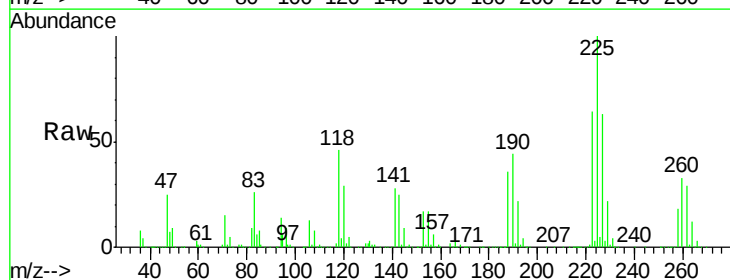
Tgt Ion:225 Resp: 1938070

Ion Ratio Lower Upper

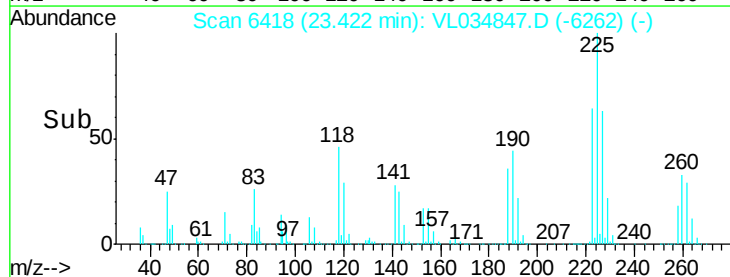
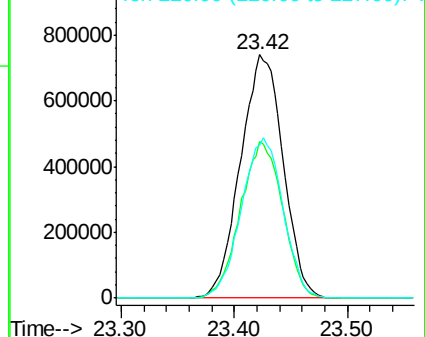
225 100

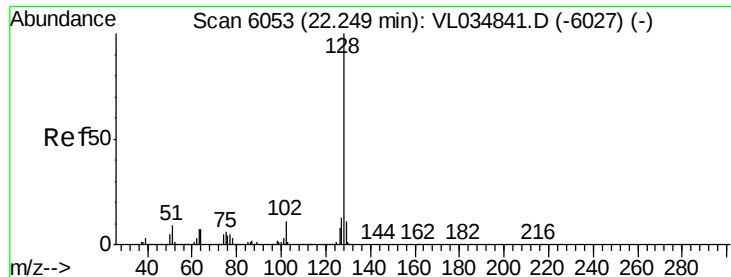
223 63.7 51.1 76.7

227 64.5 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: 18.557 ppbv

RT: 22.26 min Scan# 6057

Delta R.T. 0.01 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 4003264

Ion Ratio Lower Upper

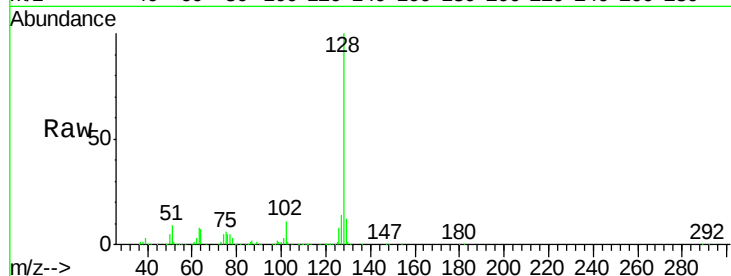
128 100

127 14.1 10.2 15.2

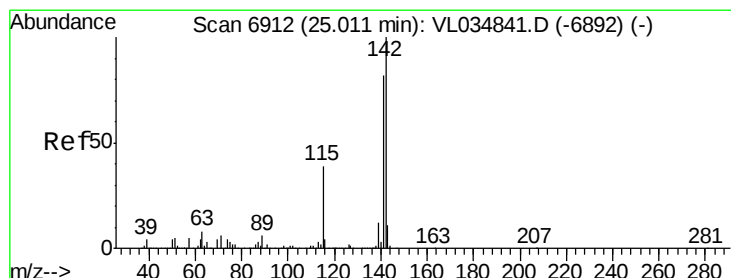
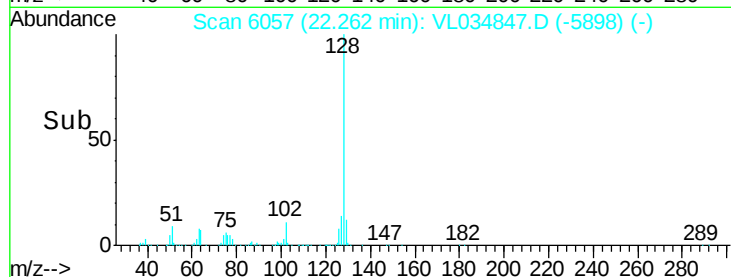
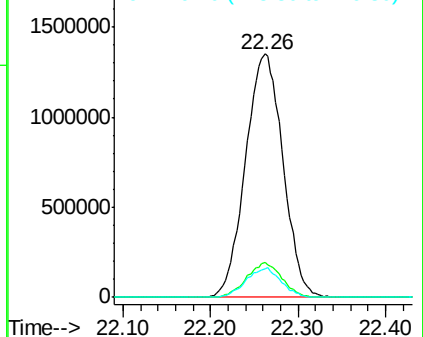
129 11.6 8.6 13.0

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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: 35.401 ppbv

RT: 25.01 min Scan# 6913

Delta R.T. 0.00 min

Lab File: VL034847.D

Acq: 9 Mar 2020 16:09

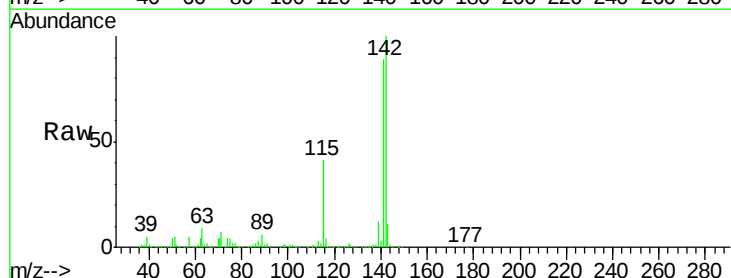
Tgt Ion:142 Resp: 1823982

Ion Ratio Lower Upper

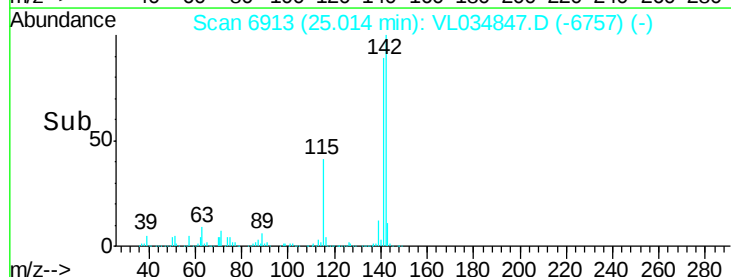
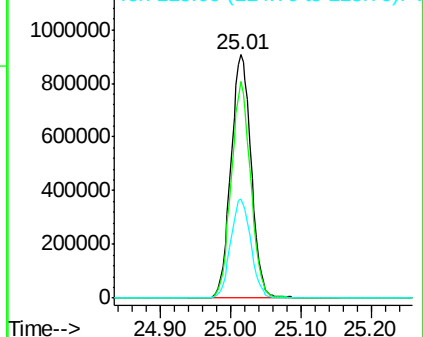
142 100

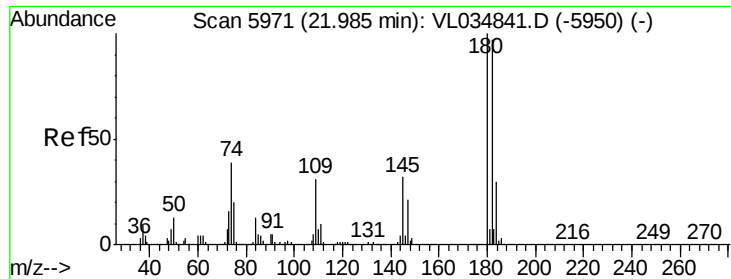
141 85.5 68.9 103.3

115 40.9 33.2 49.8



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: 16.832 ppbv
 RT: 21.99 min Scan# 5973
 Delta R.T. 0.01 min
 Lab File: VL034847.D
 Acq: 9 Mar 2020 16:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.6	115.0
184	31.1	25.0	37.4

Manual Integrations
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