

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL013020\
 Data File : VL034569.D
 Acq On : 30 Jan 2020 12:46
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

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 1/31/2020 4:25:50 PM

Quant Time: Jan 30 14:54:23 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 14:54:23 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	1195124	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2440116	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2500075	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2054966	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	568014	3.014	ppbv	98
3) Chlorodifluoromethane	2.95	51	307240	2.158	ppbv	99
4) Chloromethane	3.10	50	191089	2.259	ppbv	96
5) Vinyl Chloride	3.22	62	175531	2.119	ppbv	96
6) Bromomethane	3.44	94	91019	2.208	ppbv #	80
7) Chloroethane	3.53	64	65835	2.281	ppbv #	83
8) Dichlorotetrafluoroethane	3.15	85	446482	2.362	ppbv	98
9) Propene	2.97	41	121300	2.210	ppbv	100
10) Heptane	8.13	43	301220	2.125	ppbv	100
11) Trichlorofluoromethane	3.92	101	515117	2.362	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	327828	2.363	ppbv	99
13) Ethanol	3.57	45	34204m	2.245	ppbv	
14) Bromoethene	3.71	108	129090	2.301	ppbv	99
15) Acetone	3.82	43	386245	2.214	ppbv	98
16) 1,3-Butadiene	3.29	39	153255	2.285	ppbv	97
17) tert-Butyl alcohol	4.27	59	249599	1.787	ppbv	99
18) 1,1-Dichloroethene	4.27	96	139855	2.314	ppbv	94
19) Isopropyl Alcohol	3.94	45	194160	1.720	ppbv #	97
20) Methylene Chloride	4.32	84	143304	2.088	ppbv	94
21) Allyl Chloride	4.39	41	230399	2.298	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	142969	2.326	ppbv	90
23) Vinyl Acetate	5.06	43	438369	2.177	ppbv	97
24) 1,1-Dichloroethane	4.99	63	360310	2.227	ppbv	99
25) Ethyl Acetate	5.67	43	607784	2.231	ppbv	99
26) Hexane	5.68	57	253924	2.212	ppbv	97
27) Carbon Disulfide	4.53	76	340971	2.350	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	448696	2.341	ppbv	99
29) Chloroform	5.74	83	453988	2.286	ppbv	99
30) Cyclohexane	7.13	84	182312	2.137	ppbv #	82
31) cis-1,2-Dichloroethene	5.54	61	263239	2.251	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	447573	2.171	ppbv	99
34) 2-Butanone	5.23	43	394692	2.263	ppbv	99
35) Carbon Tetrachloride	7.02	117	491055	2.219	ppbv	97
36) Benzene	6.90	78	464630	2.184	ppbv	95
37) 1,2-Dichloroethane	6.30	62	377667	2.186	ppbv	100
38) Trichloroethene	7.84	130	195998	2.281	ppbv	93
39) 1,2-Dichloropropane	7.62	63	187455	2.143	ppbv	94
40) 1,4-Dioxane	7.85	88	72822m	2.057	ppbv	
41) Tetrahydrofuran	6.05	42	194654	2.176	ppbv	99
42) Bromodichloromethane	7.80	83	476615	2.242	ppbv #	99
43) Methyl Methacrylate	8.02	69	185481	2.138	ppbv	99

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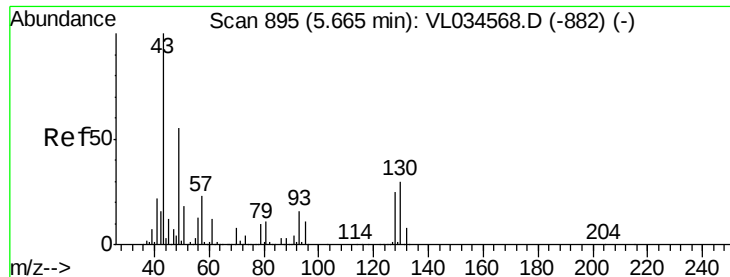
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 14:46:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	870223	2.212	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	233814	2.092	ppbv	95
46) cis-1,3-Dichloropropene	8.72	75	275344	2.155	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	207786m	2.155	ppbv	
48) Dibromochloromethane	10.32	129	370748	2.218	ppbv	98
49) Bromoform	13.07	173	347261	2.295	ppbv	96
50) 4-Methyl-2-Pentanone	8.75	43	542868	2.145	ppbv	97
51) 2-Hexanone	10.16	43	434609	2.127	ppbv #	97
52) Tetrachloroethene	11.25	164	180668	2.177	ppbv	94
53) Toluene	9.82	91	526711	2.254	ppbv	97
54) 1,2-Dibromoethane	10.64	107	306999	2.188	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.16	131	261771	2.169	ppbv #	1
57) Chlorobenzene	12.17	112	432387	2.096	ppbv	97
58) Ethyl Benzene	12.74	91	738693	2.191	ppbv	97
59) m/p-Xylene	13.03	91	1294107m	4.389	ppbv	
60) o-Xylene	13.72	91	666005	2.251	ppbv	95
61) Styrene	13.55	104	434249	2.147	ppbv	99
62) Isopropylbenzene	14.70	105	864303	2.233	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.71	83	475700	2.004	ppbv	100
64) n-propylbenzene	15.59	120	210478	2.130	ppbv	82
65) tert-Butylbenzene	16.78	119	797389	2.281	ppbv	97
66) Benzyl Chloride	17.03	91	303018	1.977	ppbv	99
67) sec-Butylbenzene	17.34	105	1094874	2.230	ppbv	98
69) p-Isopropyltoluene	17.69	119	903441	2.269	ppbv	99
70) n-Butylbenzene	18.59	91	958893	2.232	ppbv	97
71) 2-Chlorotoluene	15.49	91	663610	2.208	ppbv	99
72) 4-Ethyltoluene	15.87	105	737973	2.229	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	725343	2.233	ppbv	92
74) 1,2,4-Trimethylbenzene	16.80	105	785114	2.260	ppbv	94
75) 1,3-Dichlorobenzene	17.04	146	444557m	2.136	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	438405	2.188	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	428725m	2.192	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	413489	2.227	ppbv	99
79) Naphthalene	22.26	128	642150	2.454	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	219543	3.028	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.98	180	399645	2.345	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1195124

Ion Ratio Lower Upper

49 100

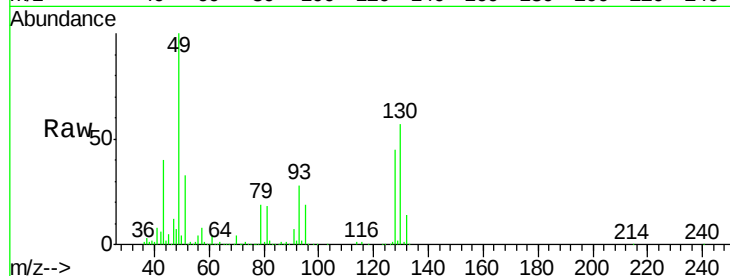
128 46.5 22.4 67.2

130 57.3 28.3 85.0

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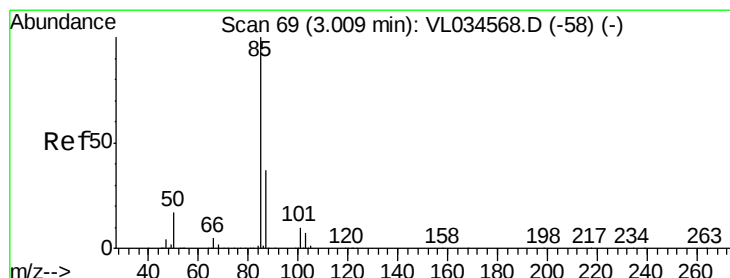
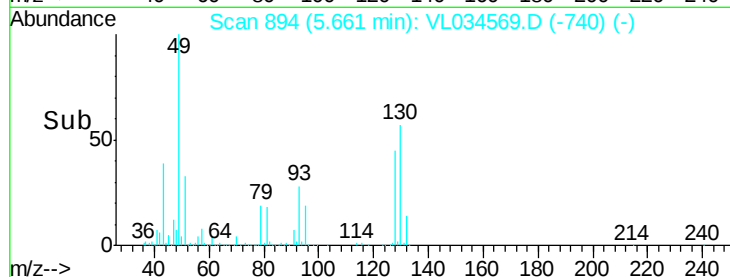
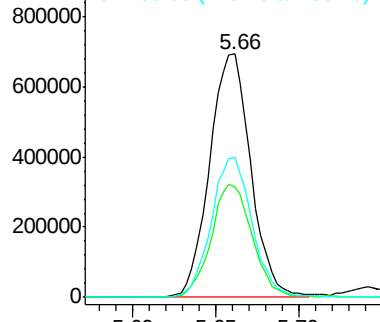
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 3.014 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034569.D

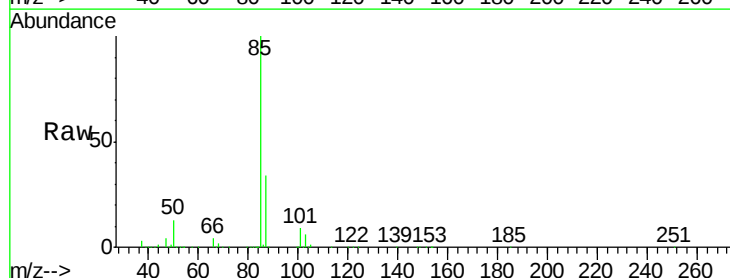
Acq: 30 Jan 2020 12:46

Tgt Ion: 85 Resp: 568014

Ion Ratio Lower Upper

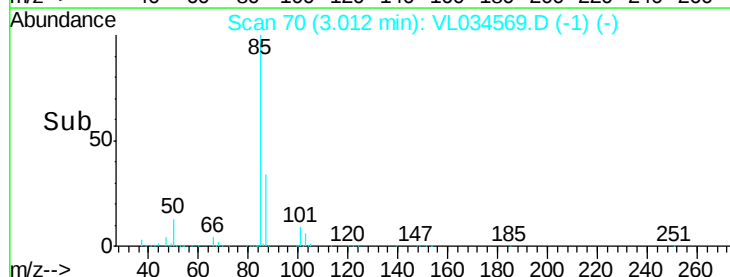
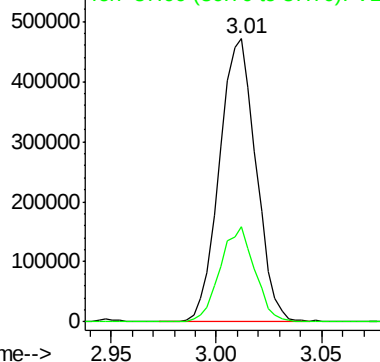
85 100

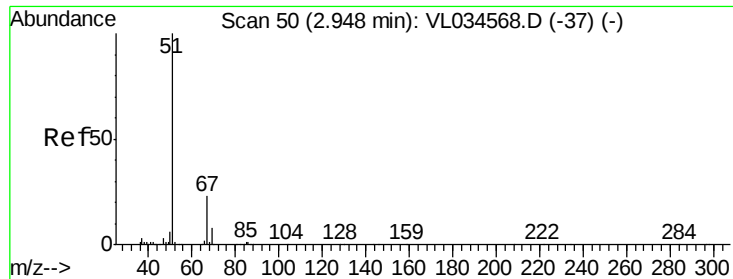
87 33.7 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.158 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 307240

Ion Ratio Lower Upper

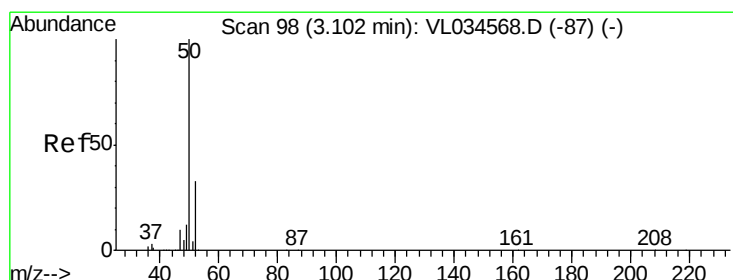
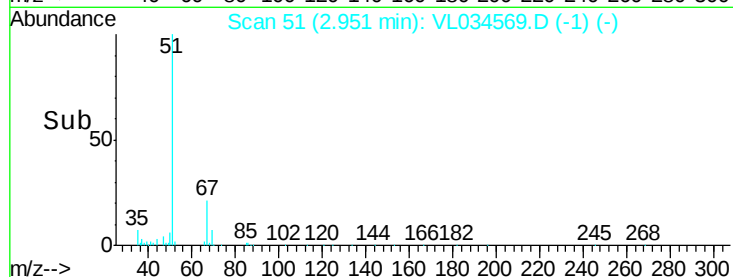
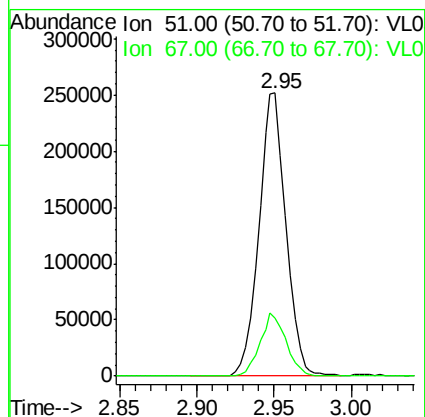
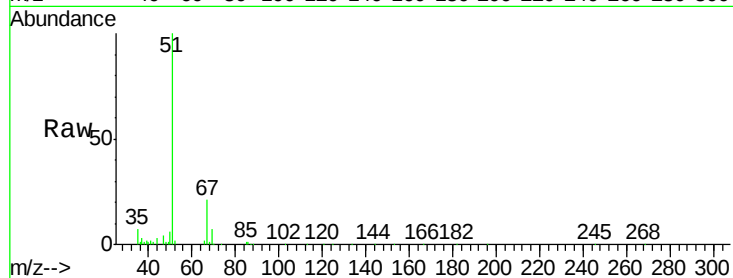
51 100

67 21.4 16.8 25.2

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#4

Chloromethane

Concen: 2.259 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034569.D

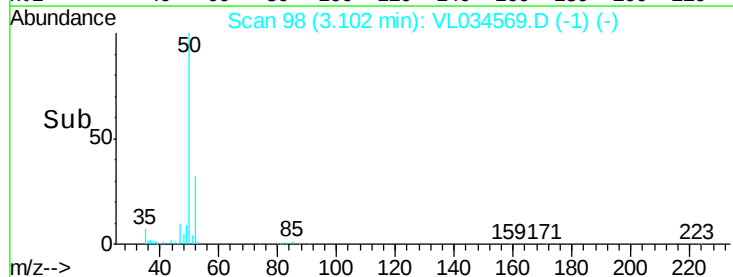
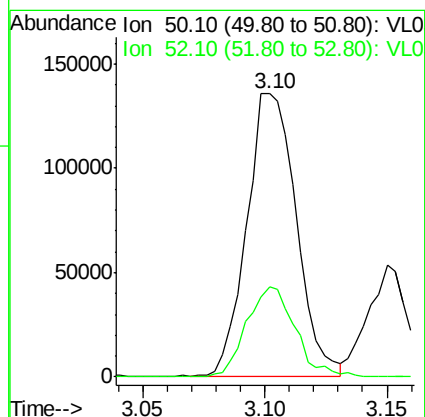
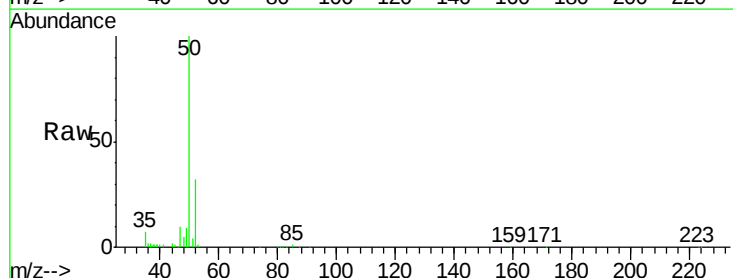
Acq: 30 Jan 2020 12:46

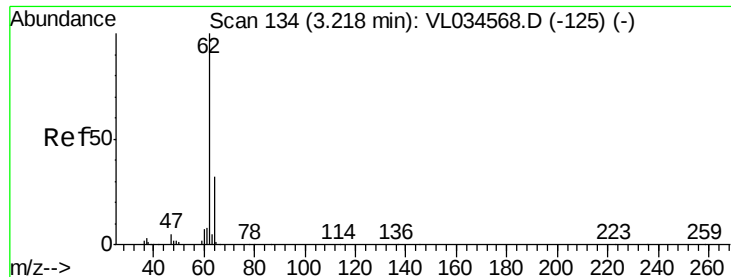
Tgt Ion: 50 Resp: 191089

Ion Ratio Lower Upper

50 100

52 31.9 27.6 41.4





#5

Vinyl Chloride

Concen: 2.119 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 175531

Ion Ratio Lower Upper

62 100

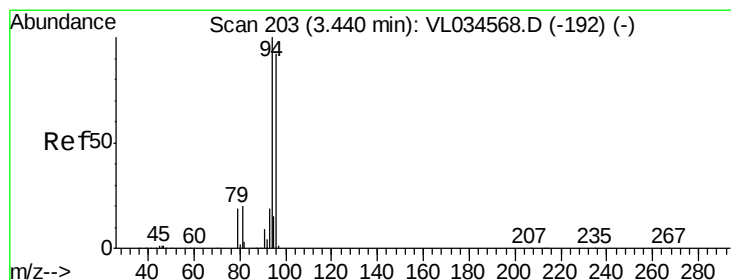
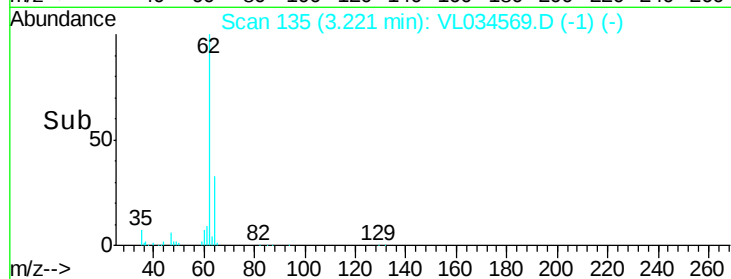
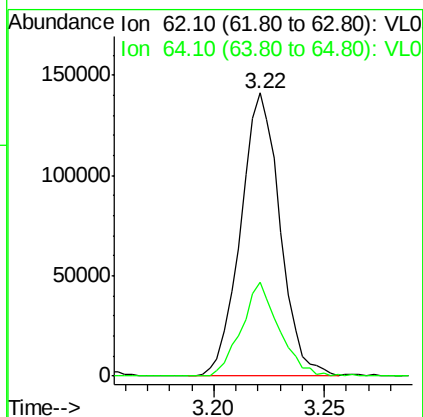
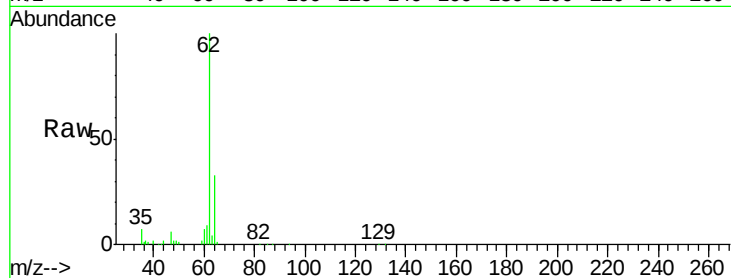
64 33.3 24.9 37.3

Manual Integrations

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#6

Bromomethane

Concen: 2.208 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL034569.D

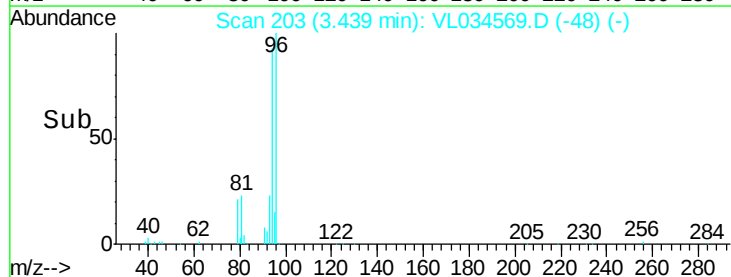
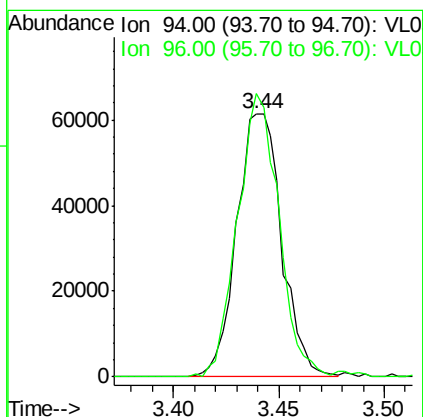
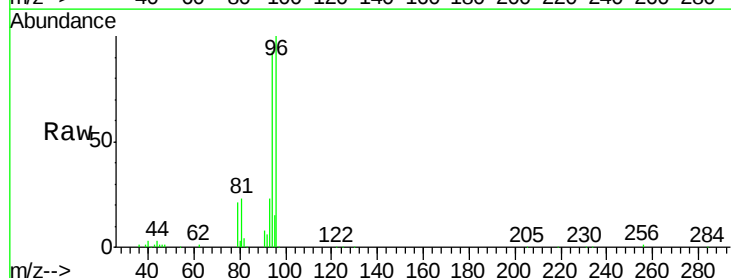
Acq: 30 Jan 2020 12:46

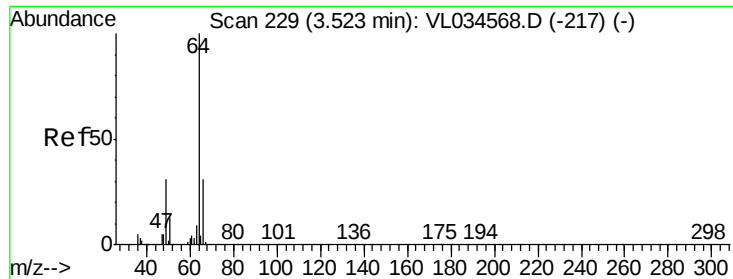
Tgt Ion: 94 Resp: 91019

Ion Ratio Lower Upper

94 100

96 107.5 71.2 106.8#





#7

Chloroethane

Concen: 2.281 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 65835

Ion Ratio Lower Upper

64 100

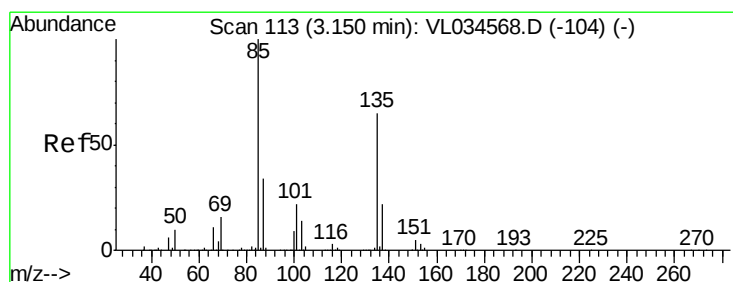
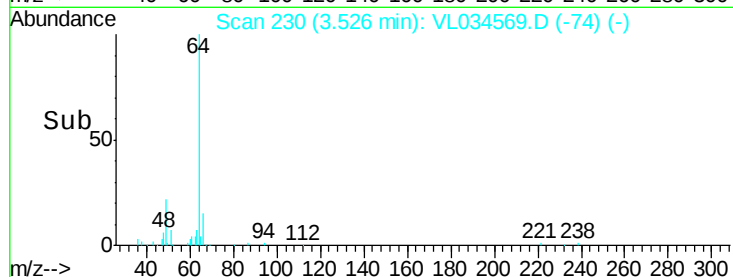
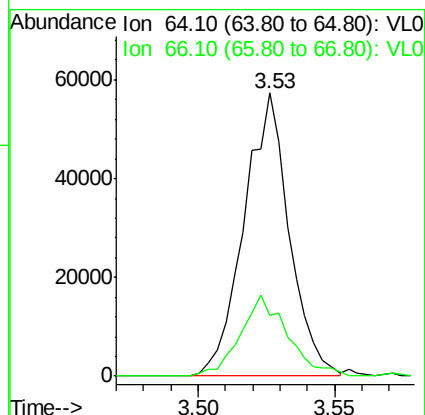
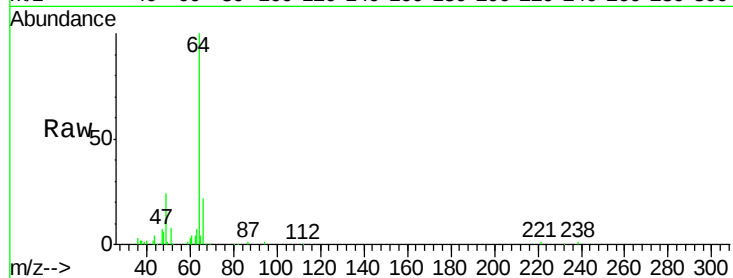
66 21.6 25.0 37.4#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 2.362 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034569.D

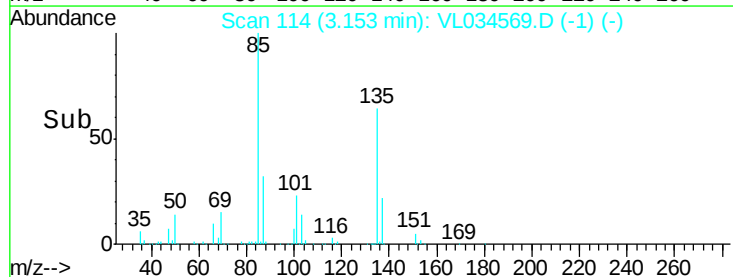
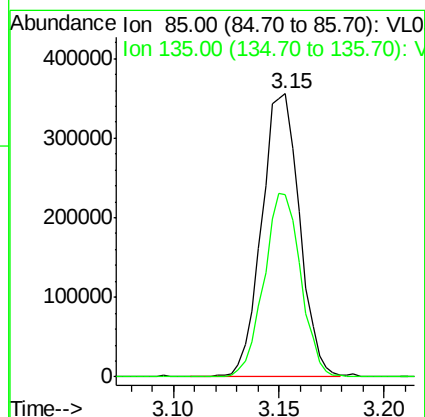
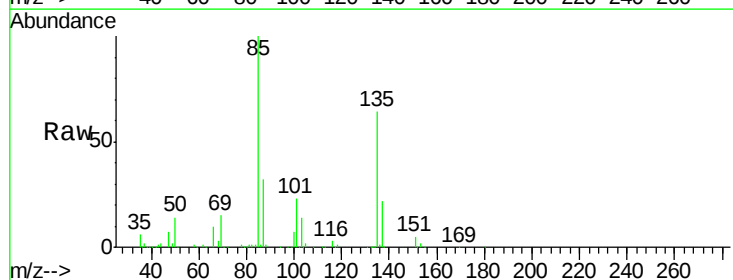
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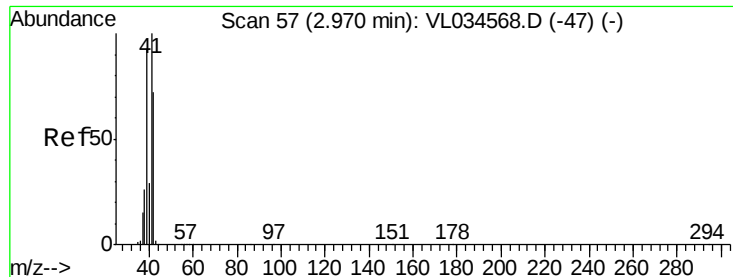
Tgt Ion: 85 Resp: 446482

Ion Ratio Lower Upper

85 100

135 63.1 51.8 77.8





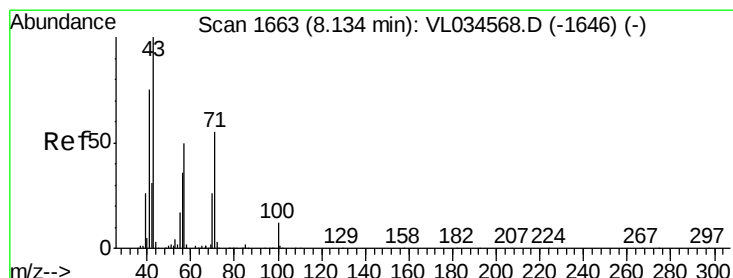
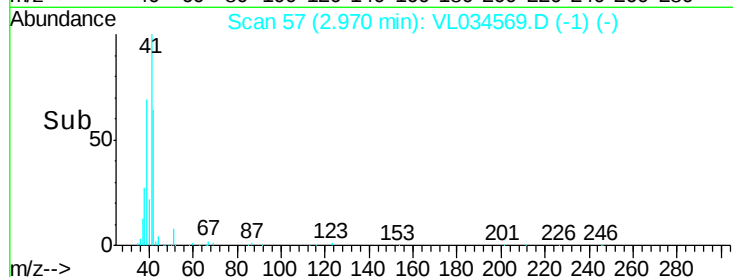
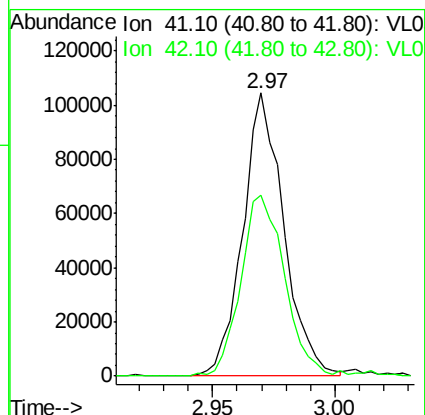
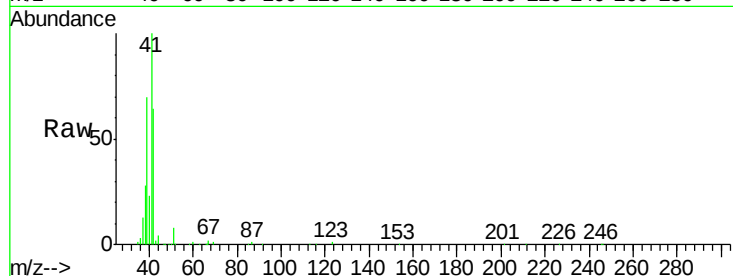
#9
 Propene
 Concen: 2.210 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
42	69.7	55.8	83.6

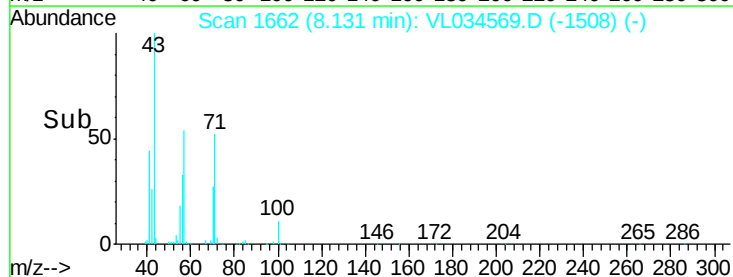
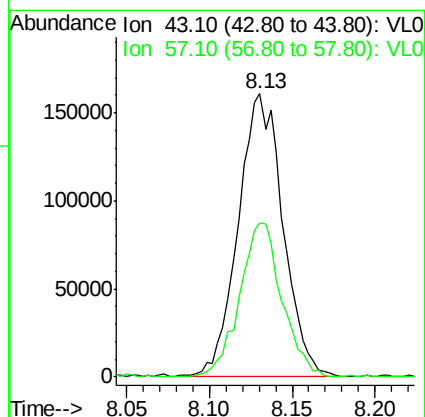
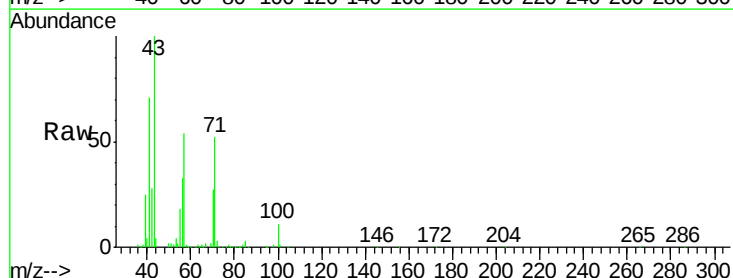
Manual Integrations
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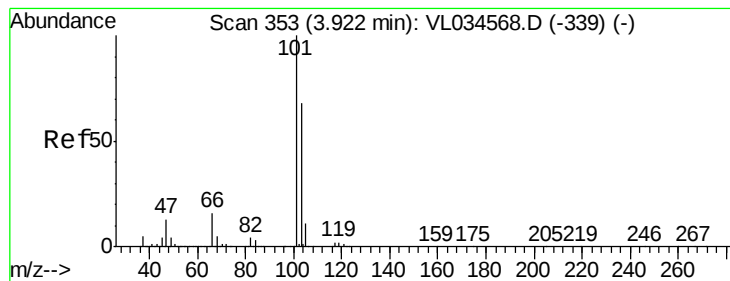
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#10
 Heptane
 Concen: 2.125 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
43	100		
57	51.5	41.0	61.6





#11

Trichlorofluoromethane

Concen: 2.362 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 515117

Ion Ratio Lower Upper

101 100

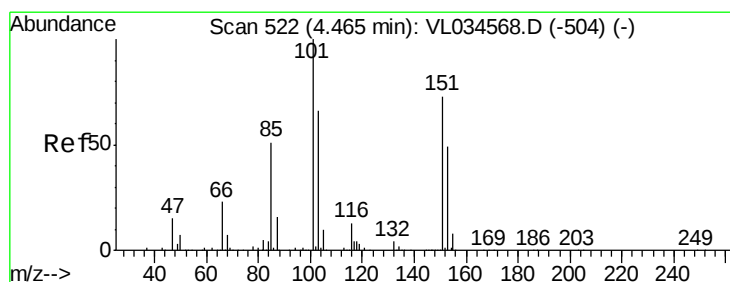
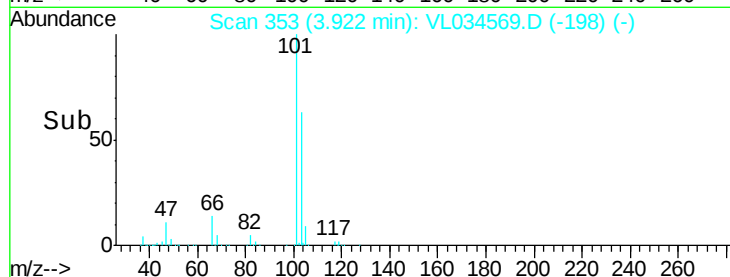
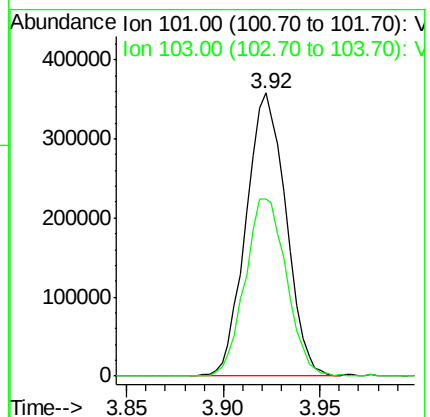
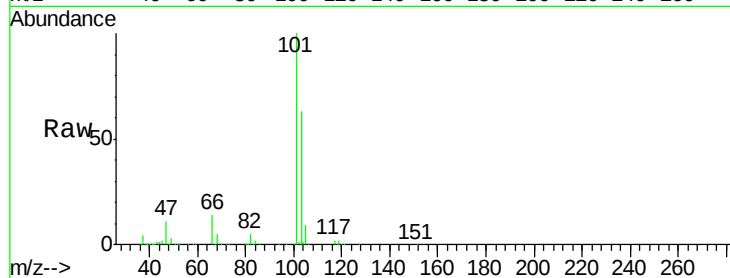
103 62.7 52.1 78.1

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.363 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL034569.D

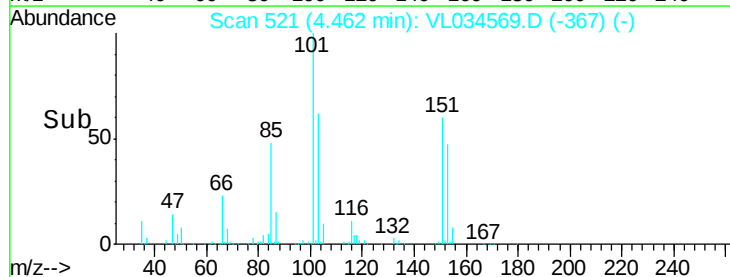
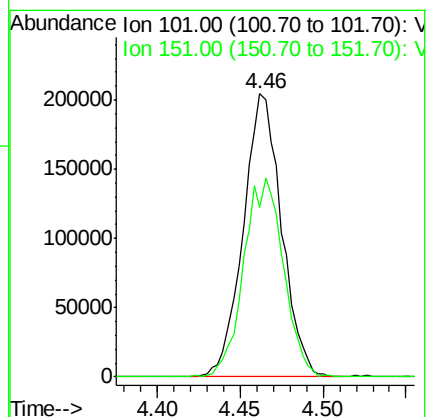
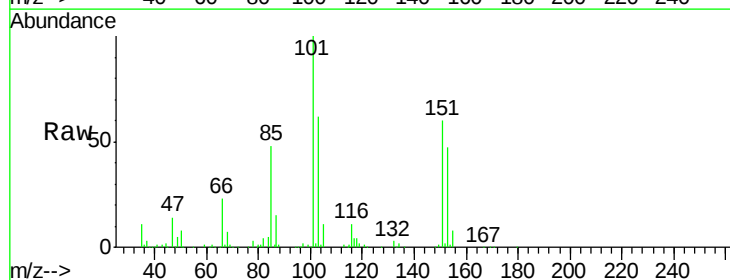
Acq: 30 Jan 2020 12:46

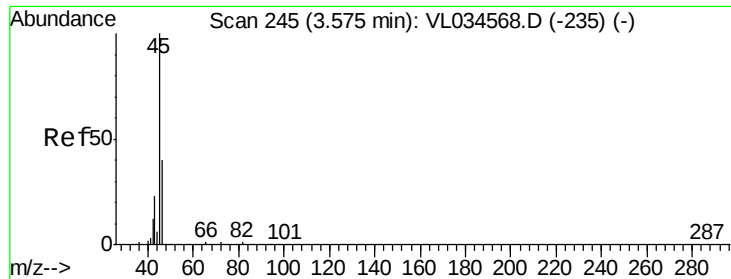
Tgt Ion:101 Resp: 327828

Ion Ratio Lower Upper

101 100

151 73.1 57.8 86.6





#13

Ethanol

Concen: 2.245 ppbv m

RT: 3.57 min Scan# 245

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 45 Resp: 34204

Ion Ratio Lower Upper

45 100

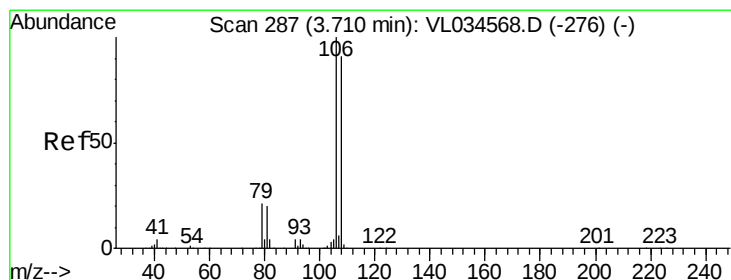
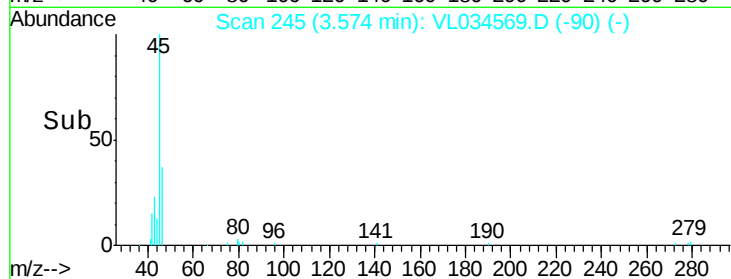
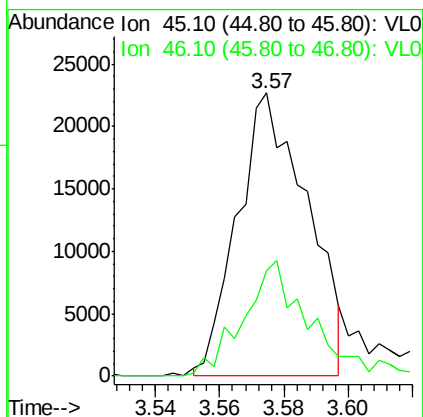
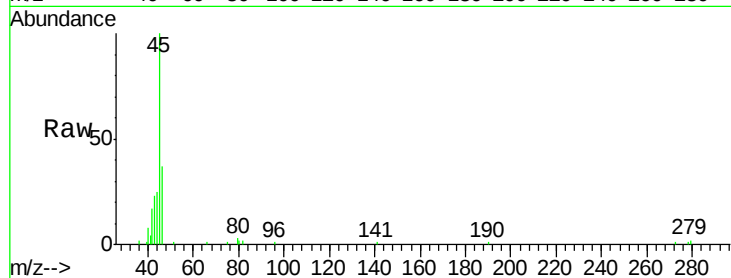
46 41.6 14.9 59.7

Manual Integrations

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#14

Bromoethene

Concen: 2.301 ppbv

RT: 3.71 min Scan# 287

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

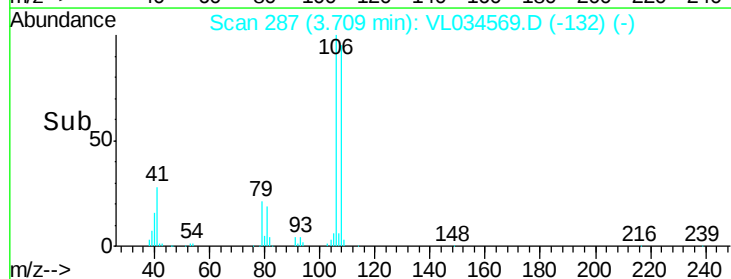
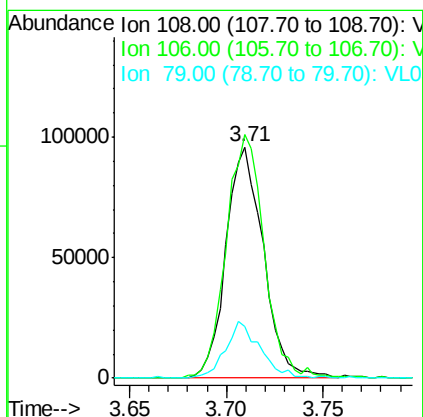
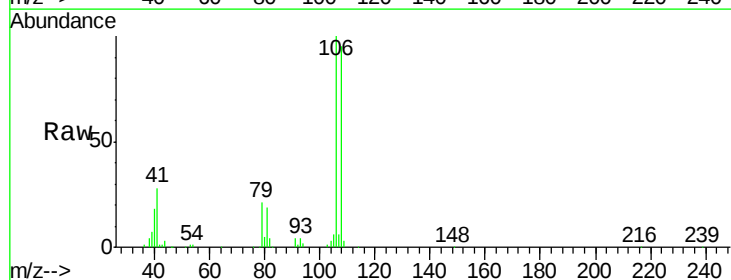
Tgt Ion: 108 Resp: 129090

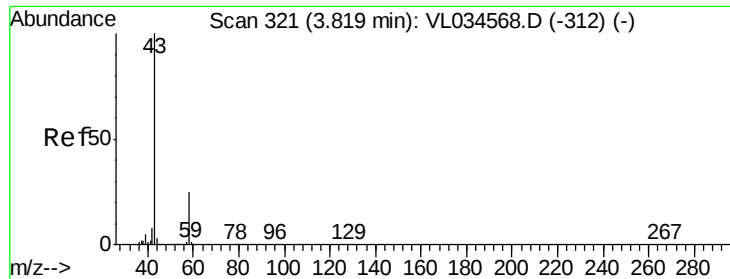
Ion Ratio Lower Upper

108 100

106 107.0 85.2 127.8

79 23.0 17.4 26.2





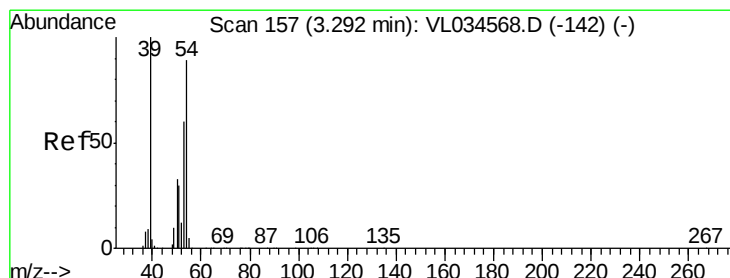
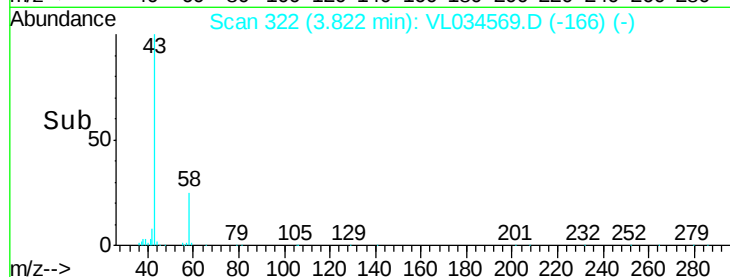
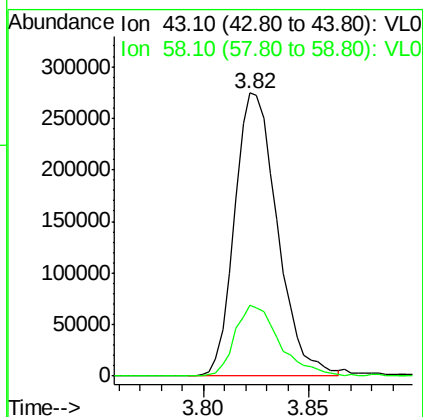
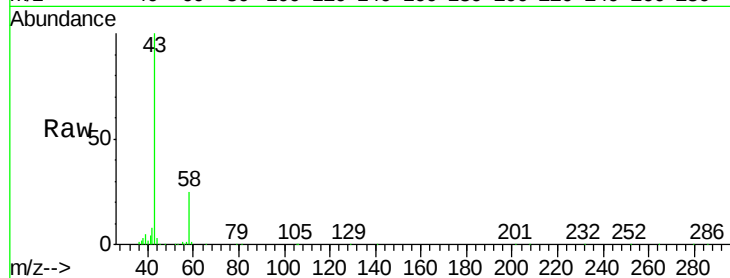
#15
Acetone
Concen: 2.214 ppbv
RT: 3.82 min Scan# 322
Delta R.T. 0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 43 Resp: 386245
Ion Ratio Lower Upper
43 100
58 26.7 20.4 30.6

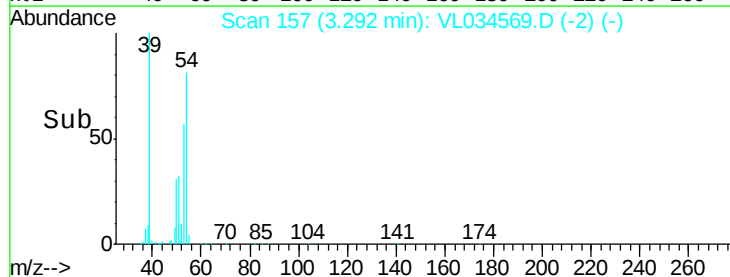
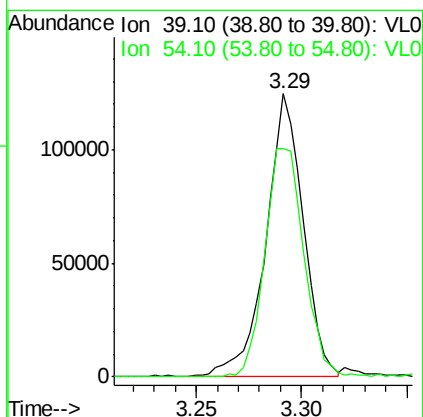
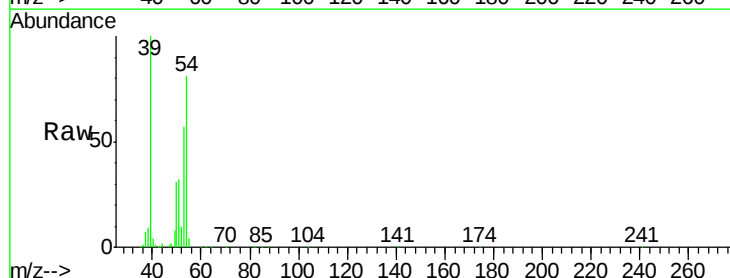
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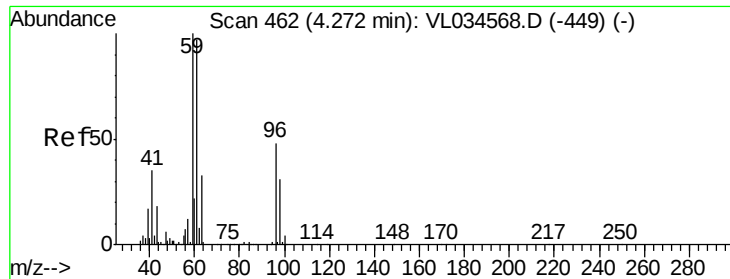
MMDadoda
1/31/2020 4:25:50 PM



#16
1,3-Butadiene
Concen: 2.285 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion: 39 Resp: 153255
Ion Ratio Lower Upper
39 100
54 85.7 66.2 99.2





#17

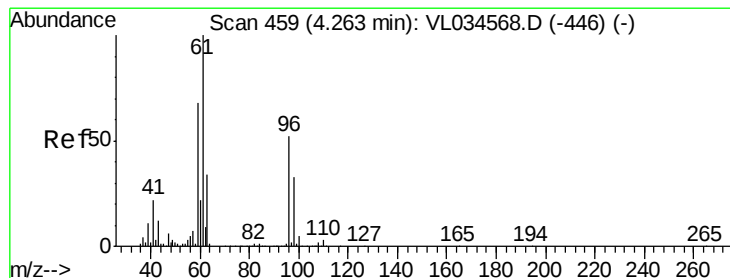
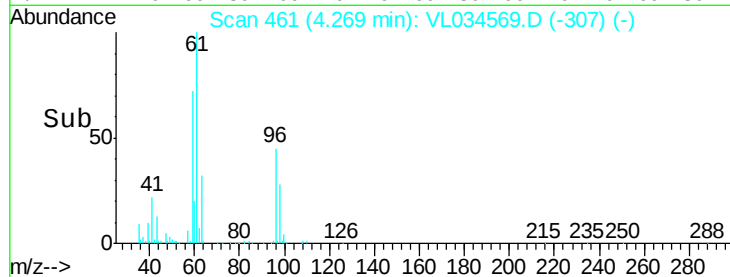
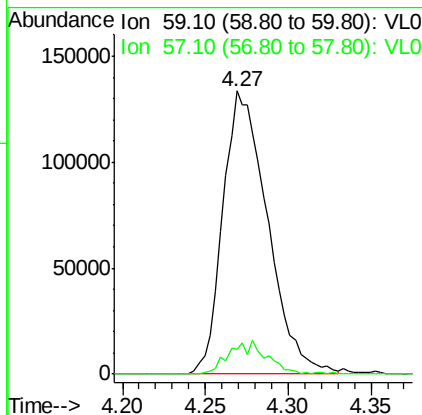
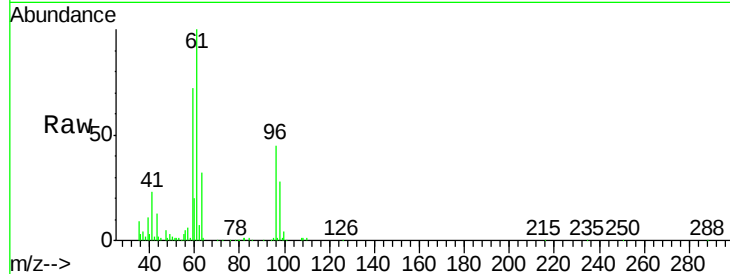
tert-Butyl alcohol
 Concen: 1.787 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	59.10	Resp	249599
Ion Ratio	100	Lower	Upper
59	100		
57	10.4	8.6	12.8

Manual Integrations
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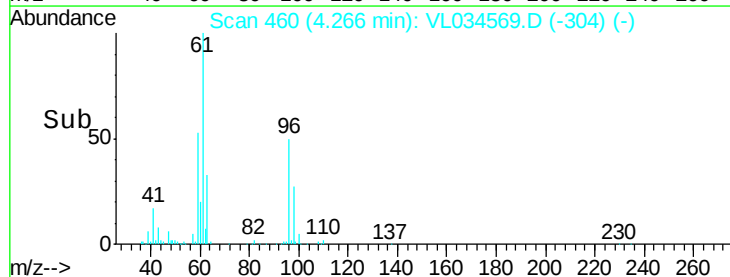
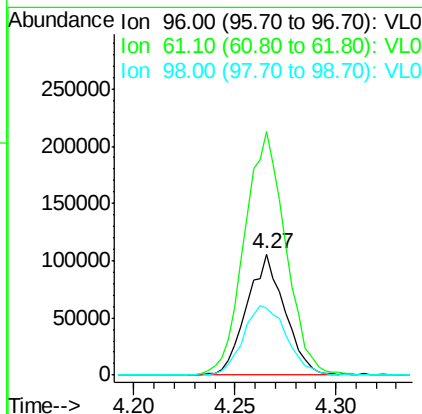
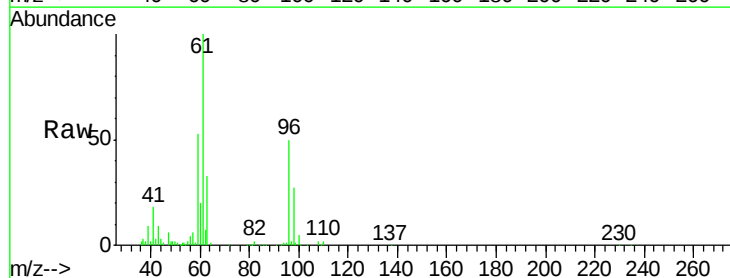
MMDadoda
 1/31/2020 4:25:50 PM

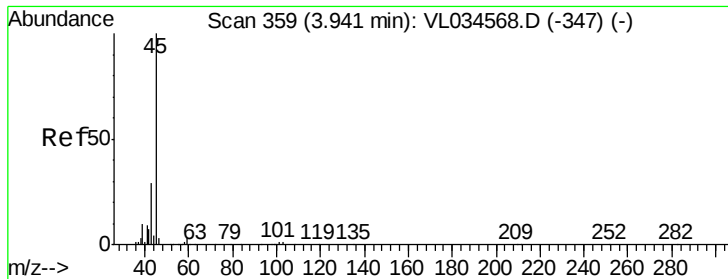


#18

1,1-Dichloroethene
 Concen: 2.314 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion	96	Resp	139855
Ion Ratio	100	Lower	Upper
96	100		
61	200.4	165.9	248.9
98	55.0	51.9	77.9





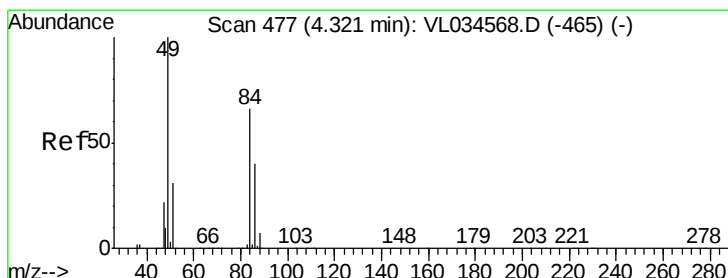
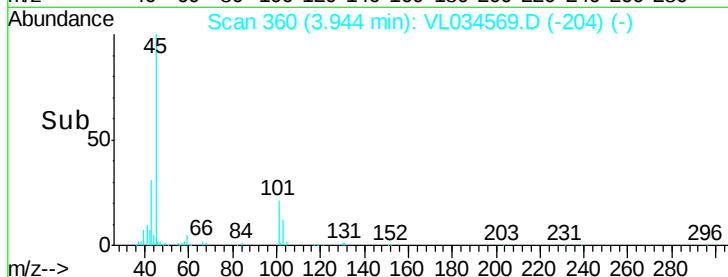
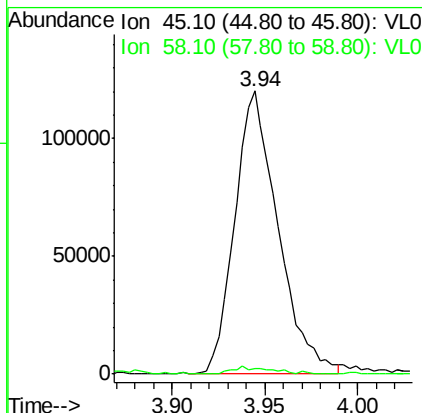
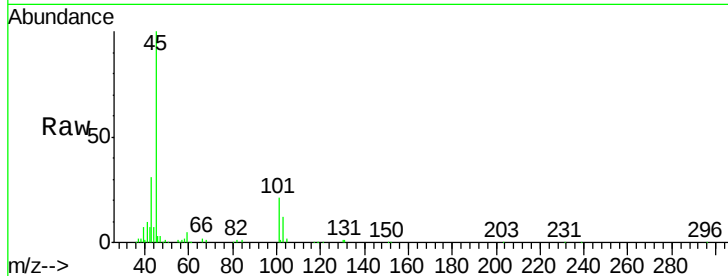
#19
Isopropyl Alcohol
Concen: 1.720 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.8	1.4	2.0#

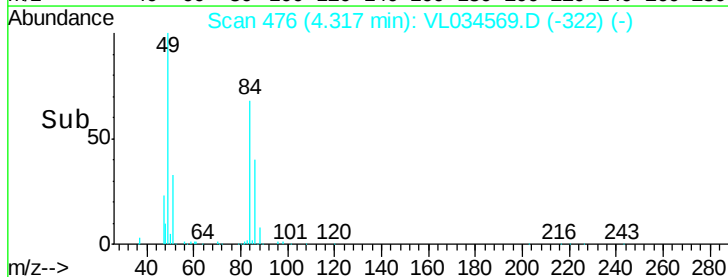
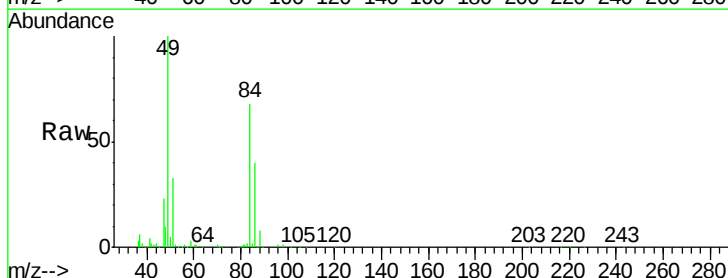
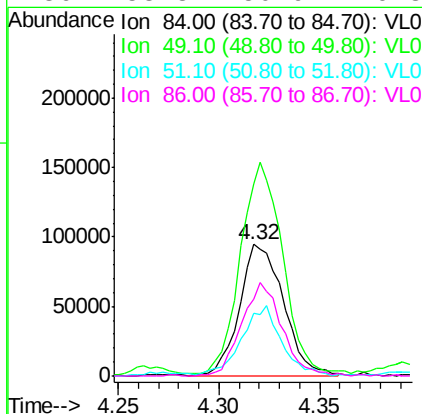
Manual Integrations
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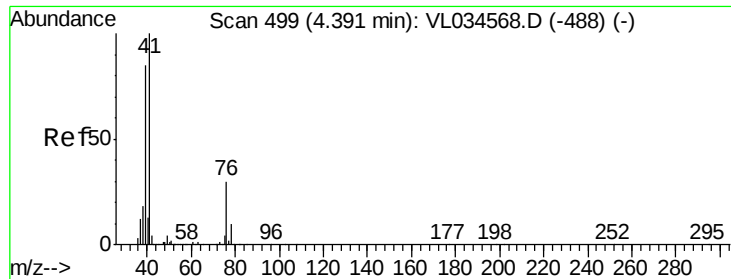
MMDadoda
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#20
Methylene Chloride
Concen: 2.088 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.0	124.4	186.6
51	46.5	37.0	55.6
86	58.8	50.9	76.3





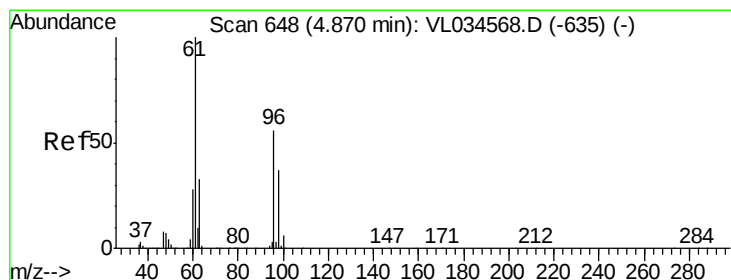
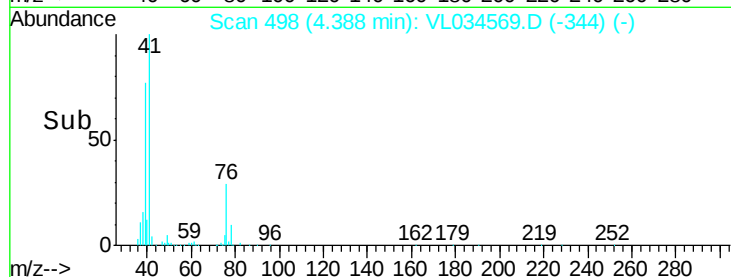
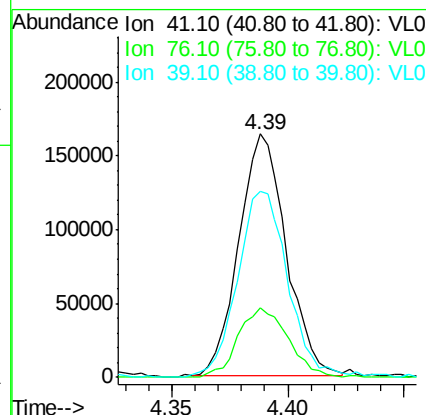
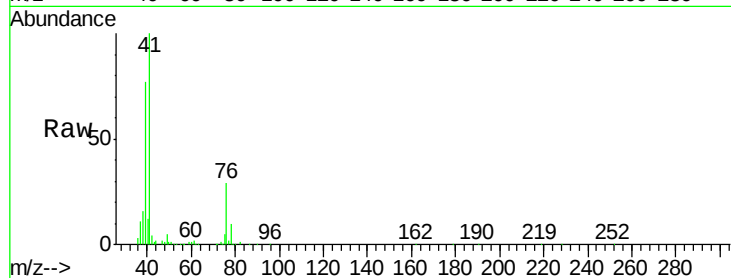
#21
Allvl Chloride
Concen: 2.298 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	41	Resp:	230399
Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.2	36.4
39	83.9	65.8	98.6

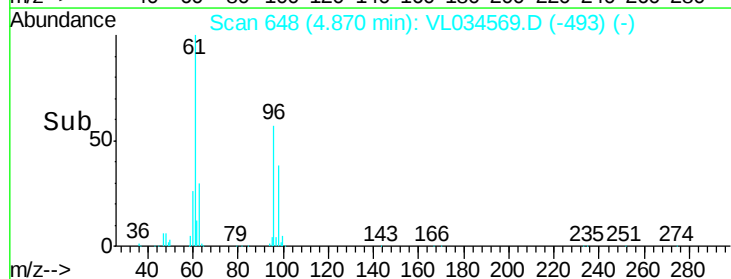
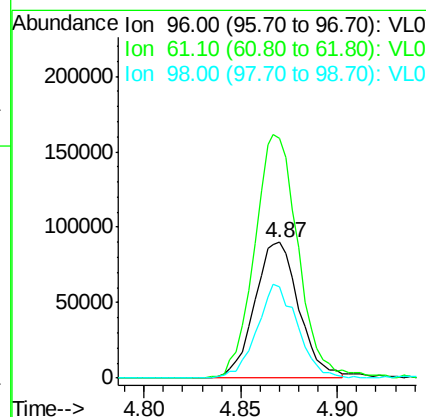
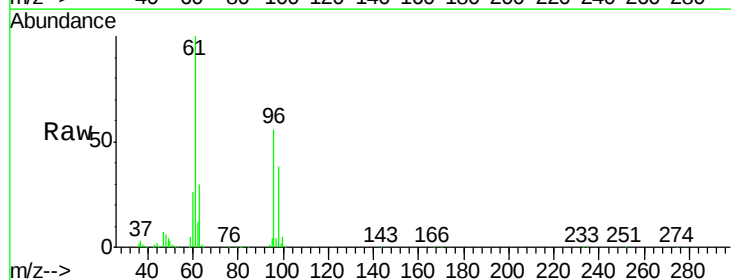
Manual Integrations
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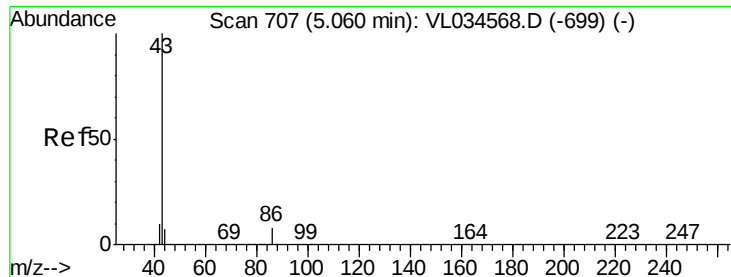
MMDadoda
1/31/2020 4:25:50 PM



#22
trans-1,2-Dichloroethene
Concen: 2.326 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion:	96	Resp:	142969
Ion	Ratio	Lower	Upper
96	100		
61	177.1	128.4	192.6
98	66.9	50.6	75.8





#23

Vinyl Acetate

Concen: 2.177 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

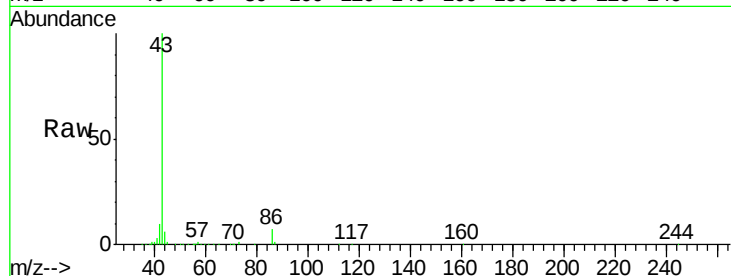
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	438369
Ion	Ratio	Lower	Upper
43	100		
86	6.8	5.4	8.2
42	9.4	8.9	13.3
44	5.1	5.0	7.4

Manual Integrations
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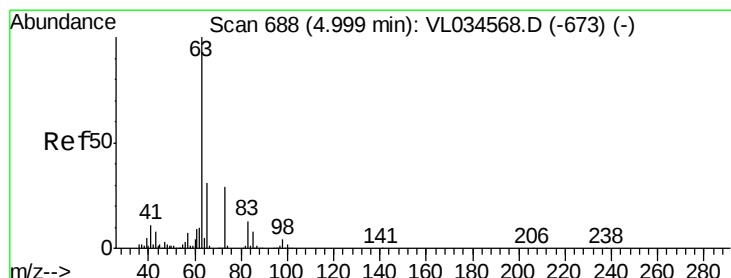
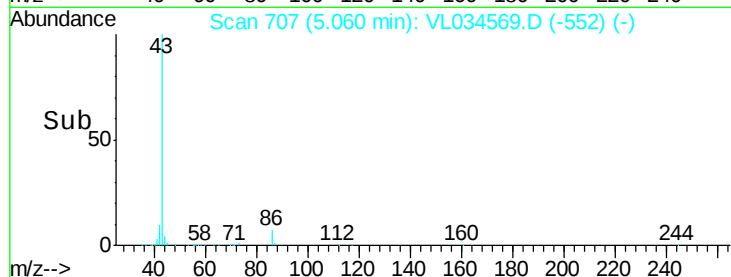
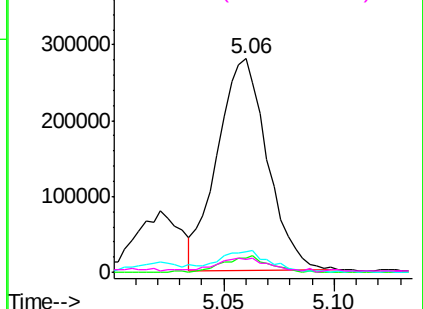


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 2.227 ppbv

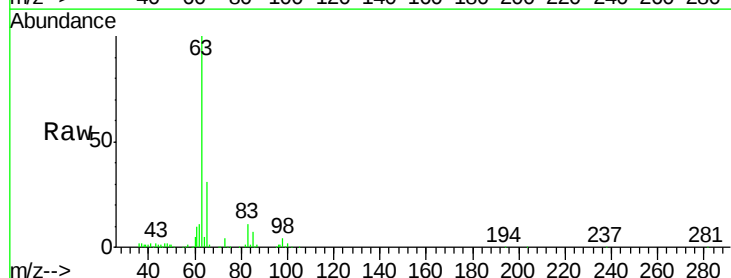
RT: 4.99 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

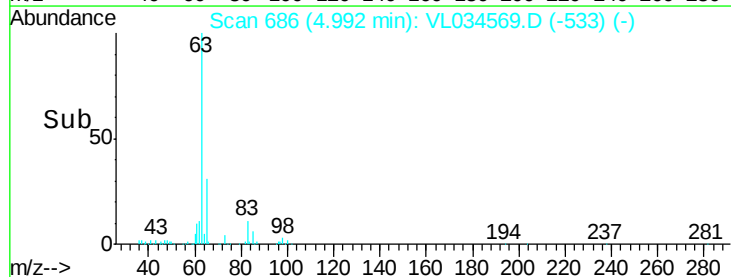
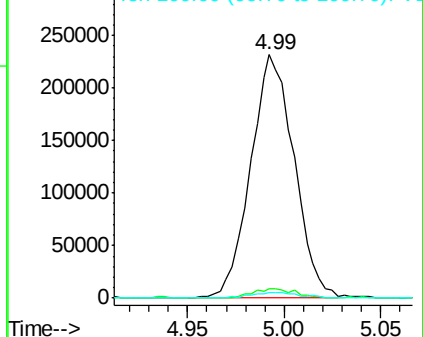
Tgt Ion:	63	Resp:	360310
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.1	6.3
100	2.3	1.1	3.3

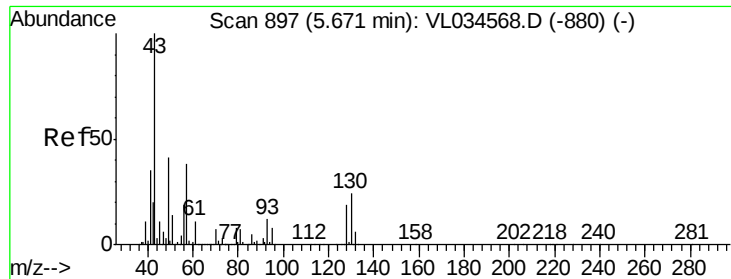


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





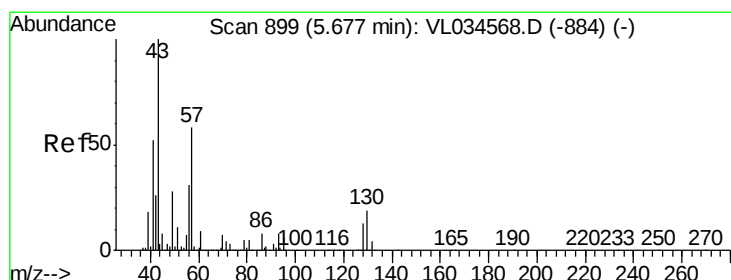
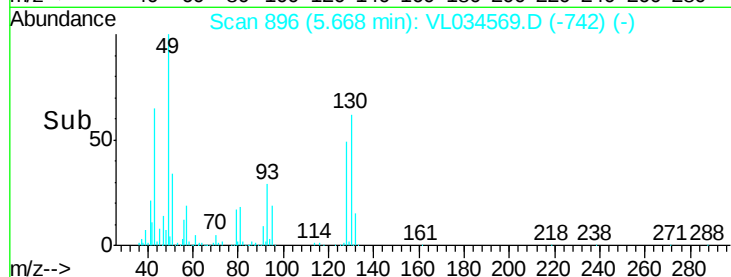
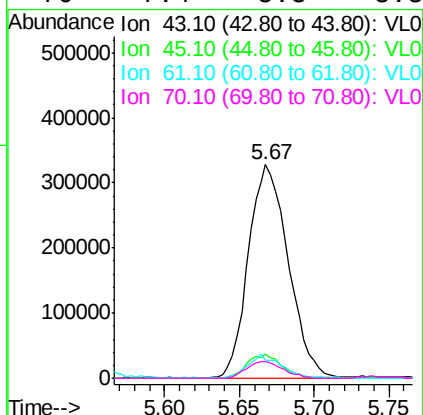
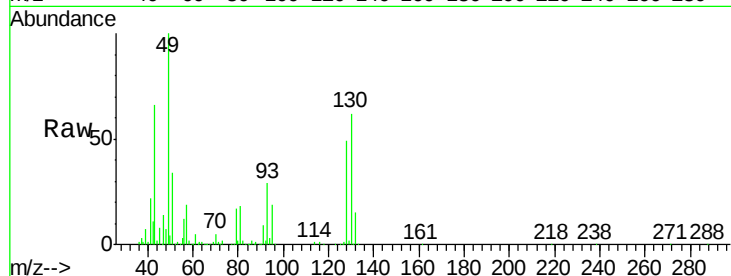
#25
Ethyl Acetate
Concen: 2.231 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.3	12.5
61	9.5	7.8	11.6
70	7.4	5.8	8.8

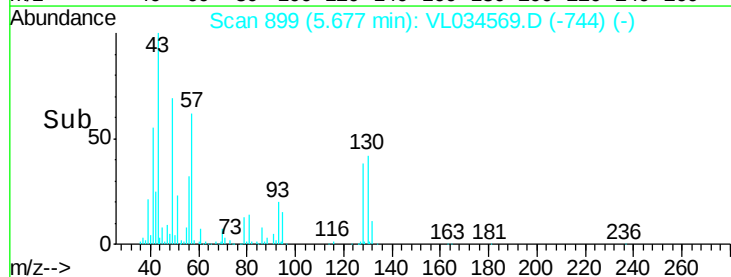
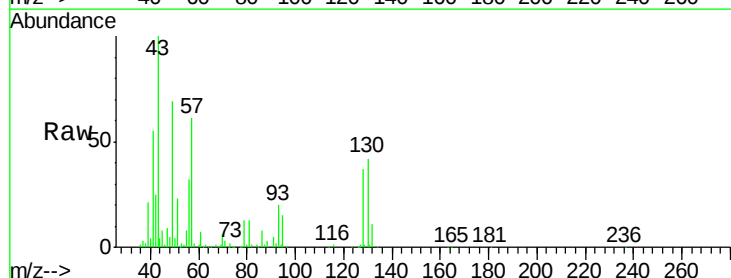
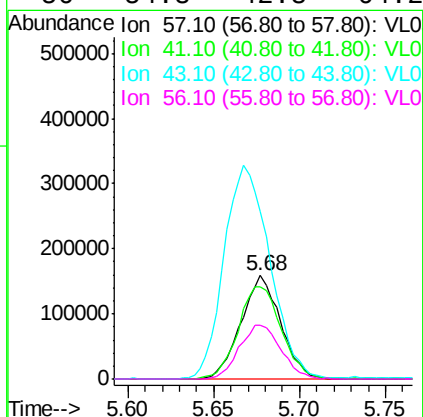
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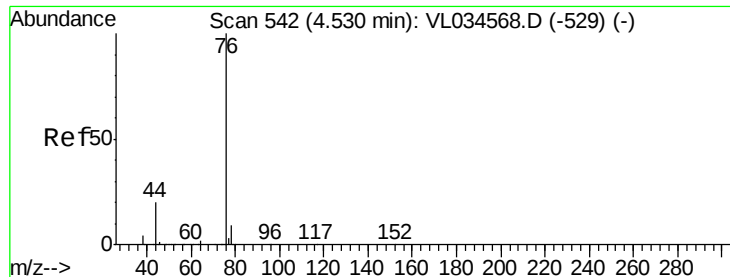
MMDadoda
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#26
Hexane
Concen: 2.212 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	97.3	75.3	112.9
43	242.1	189.4	284.2
56	54.8	42.8	64.2





#27

Carbon Disulfide

Concen: 2.350 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

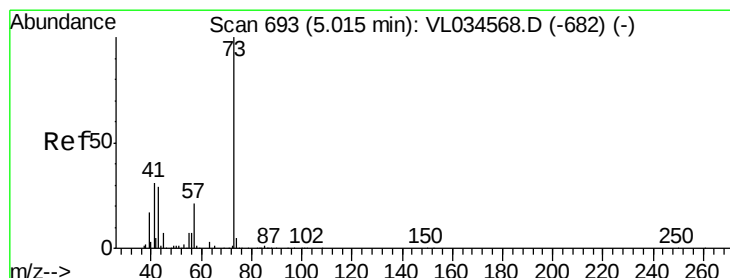
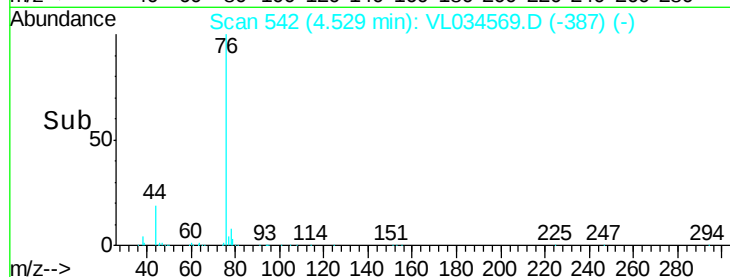
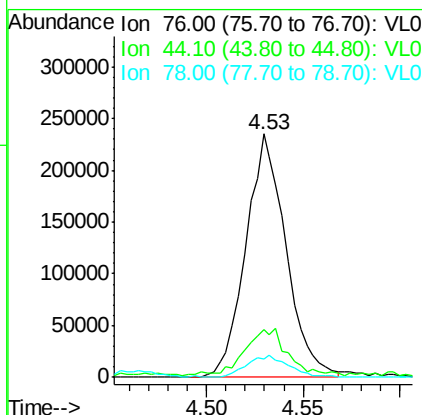
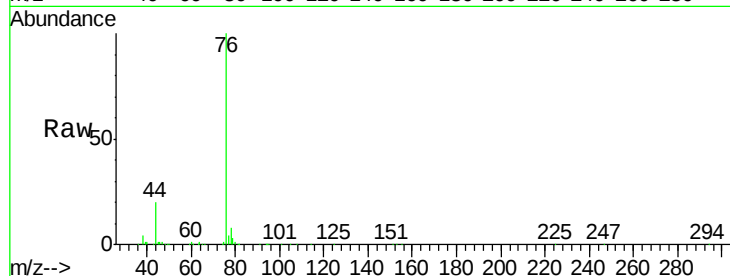
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	340971
Ion	Ratio	Lower	Upper
76	100		
44	19.8	16.6	25.0
78	9.9	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 2.341 ppbv

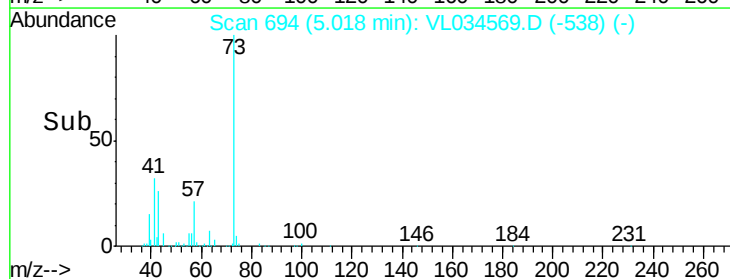
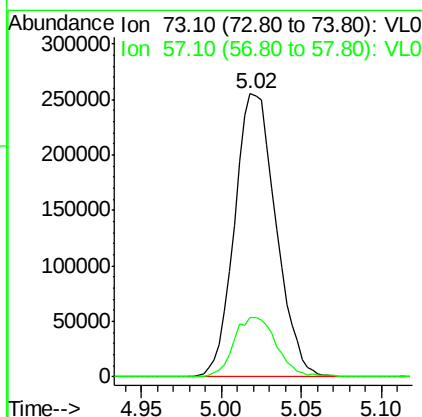
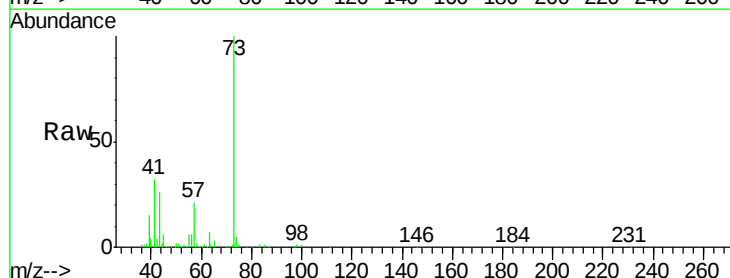
RT: 5.02 min Scan# 694

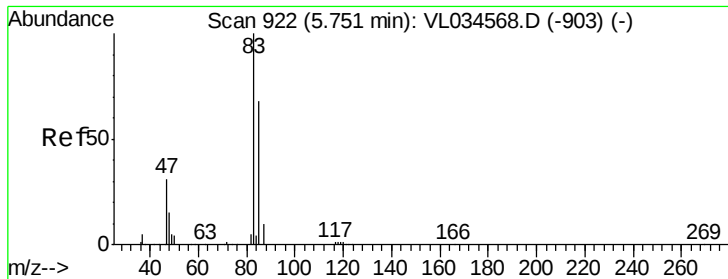
Delta R.T. 0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Tgt Ion:	73	Resp:	448696
Ion	Ratio	Lower	Upper
73	100		
57	22.0	18.2	27.2





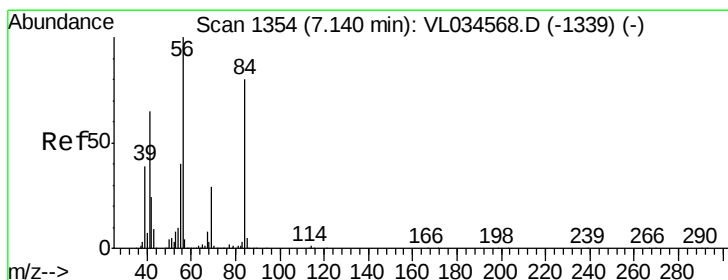
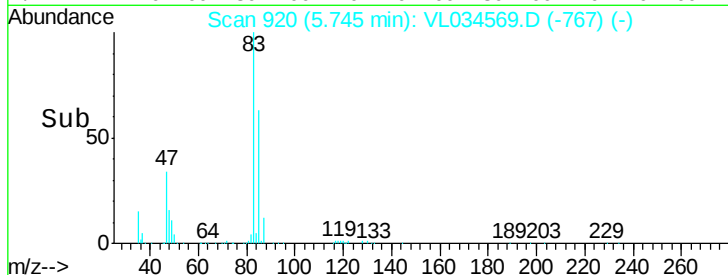
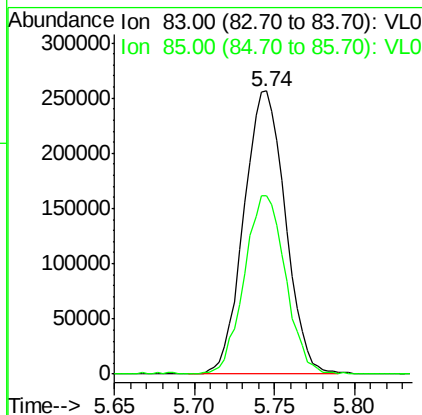
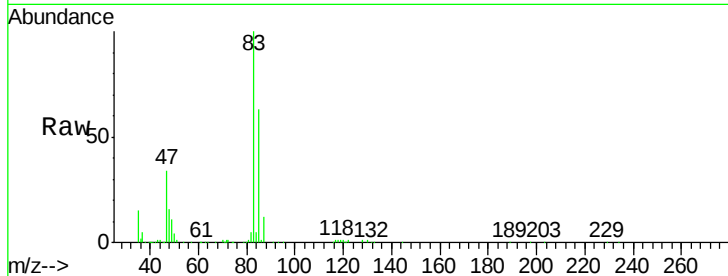
#29
Chloroform
Concen: 2.286 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 83 Resp: 453988
Ion Ratio Lower Upper
83 100
85 62.7 51.0 76.6

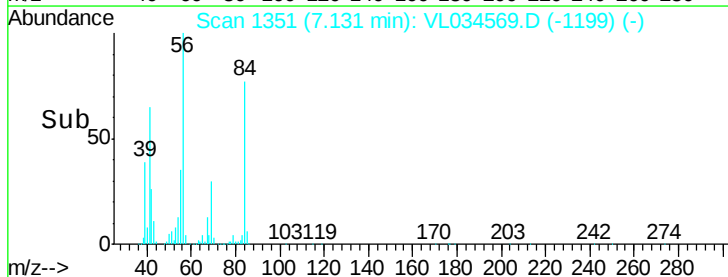
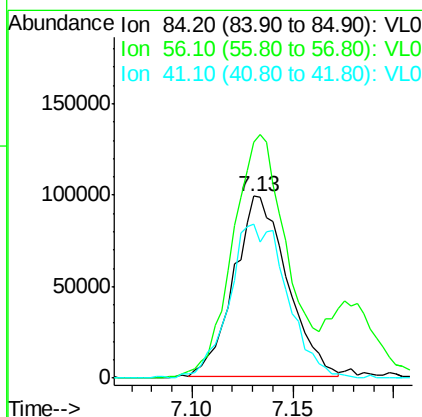
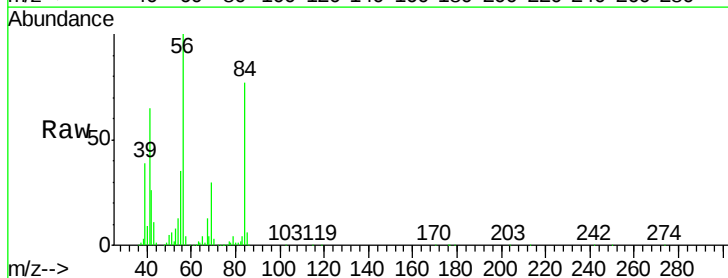
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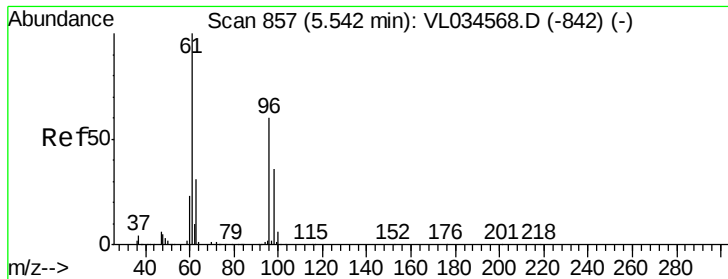
MMDadoda
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#30
Cyclohexane
Concen: 2.137 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion: 84 Resp: 182312
Ion Ratio Lower Upper
84 100
56 176.3 112.7 169.1#
41 93.0 73.0 109.4





#31

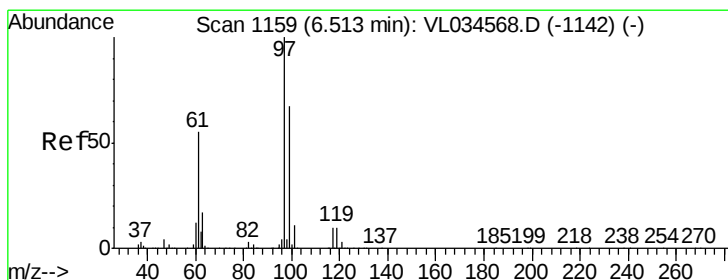
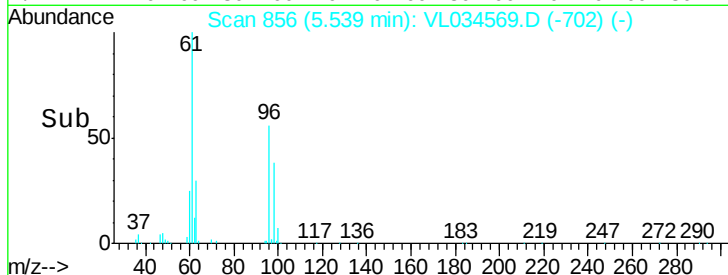
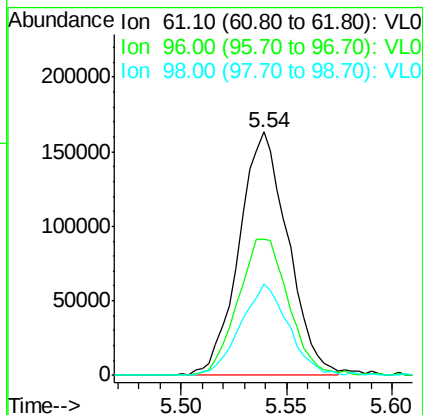
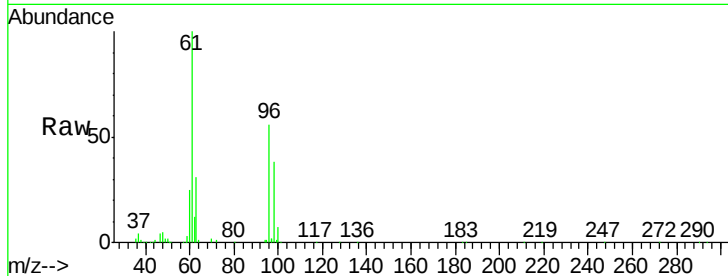
cis-1,2-Dichloroethene
Concen: 2.251 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	61	Resp:	263239
Ion	Ratio	Lower	Upper
61	100		
96	57.4	47.1	70.7
98	37.6	31.0	46.6

Manual Integrations
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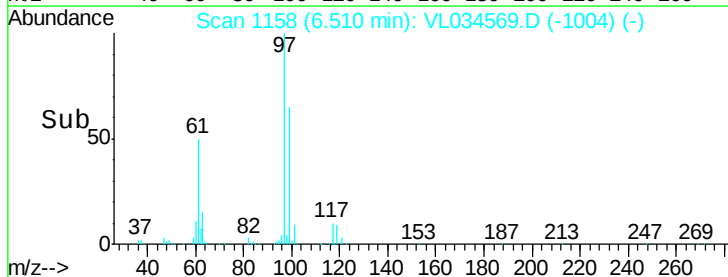
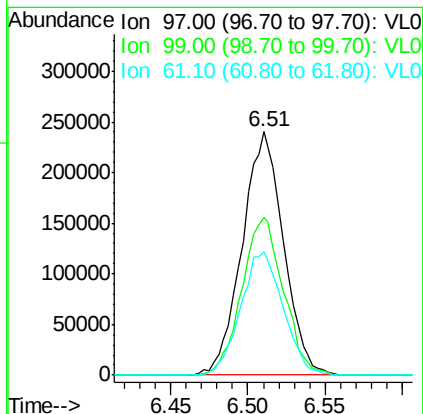
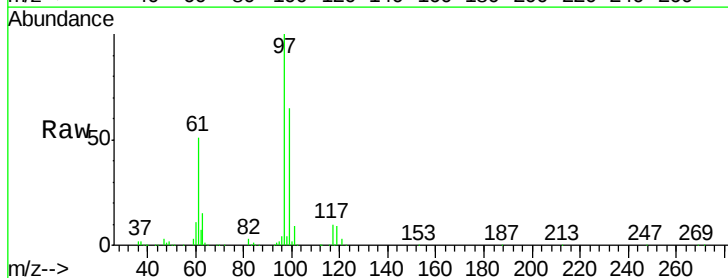
MMDadoda
1/31/2020 4:25:50 PM

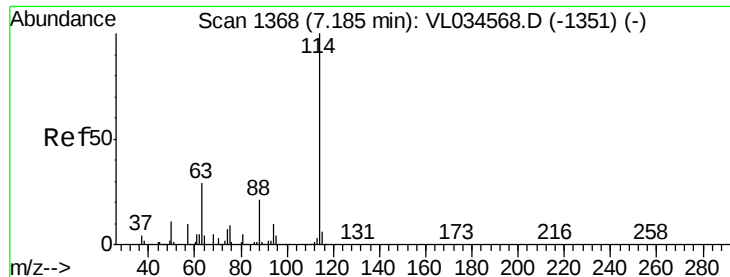


#32

1,1,1-Trichloroethane
Concen: 2.171 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion:	97	Resp:	447573
Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.7	77.5
61	52.1	42.9	64.3





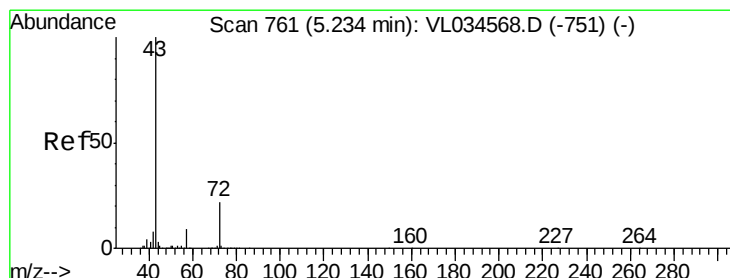
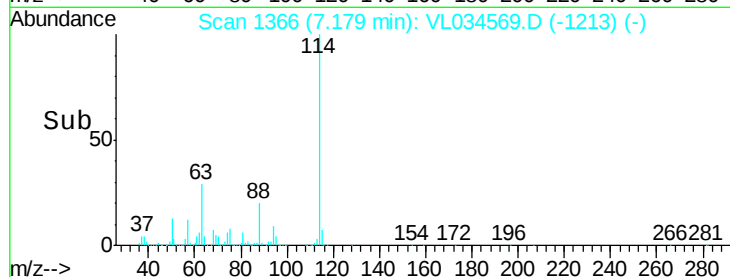
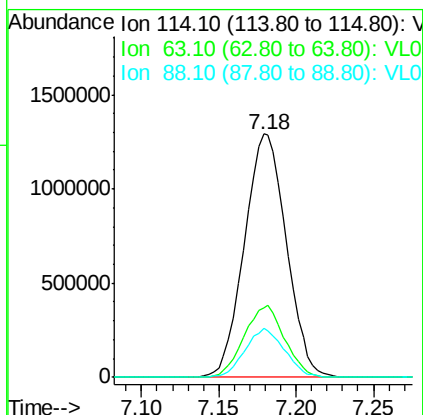
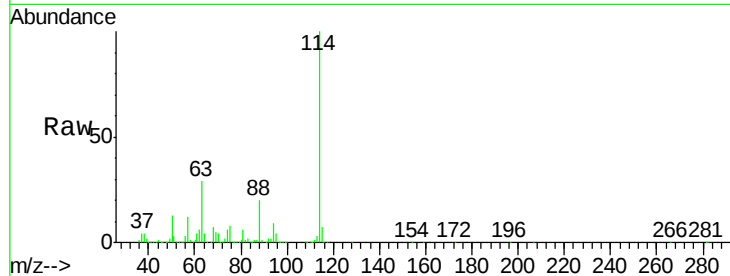
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:114 Resp: 2440116
 Ion Ratio Lower Upper
 114 100
 63 28.8 24.1 36.1
 88 19.0 15.7 23.5

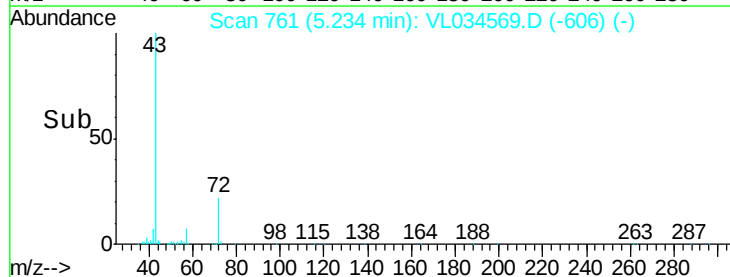
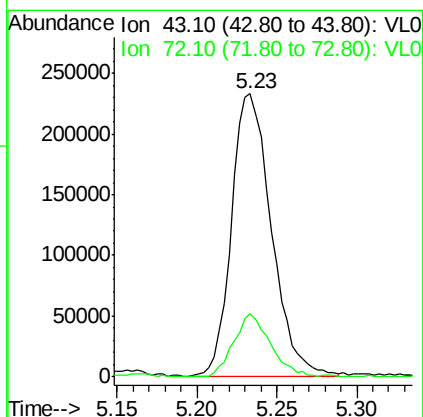
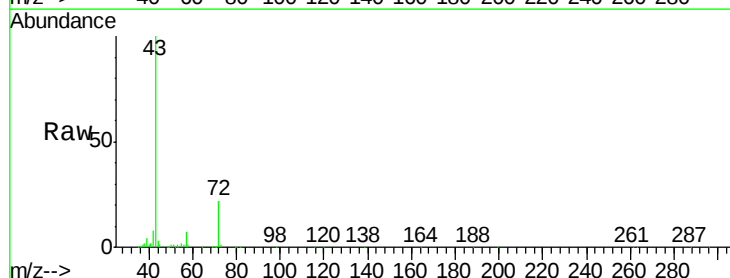
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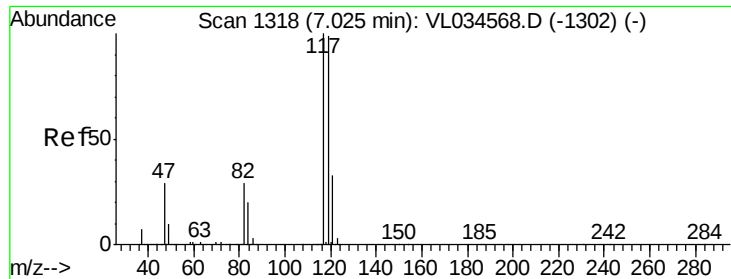
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#34
 2-Butanone
 Concen: 2.263 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion: 43 Resp: 394692
 Ion Ratio Lower Upper
 43 100
 72 20.8 17.0 25.4





#35

Carbon Tetrachloride

Concen: 2.219 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

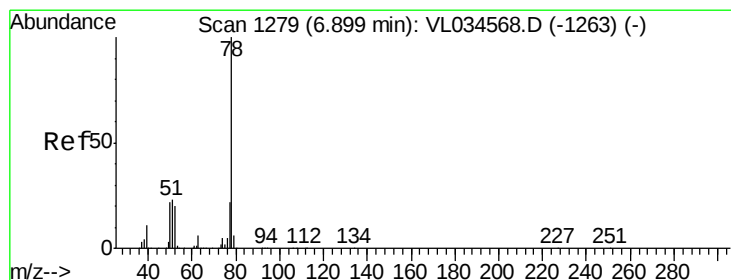
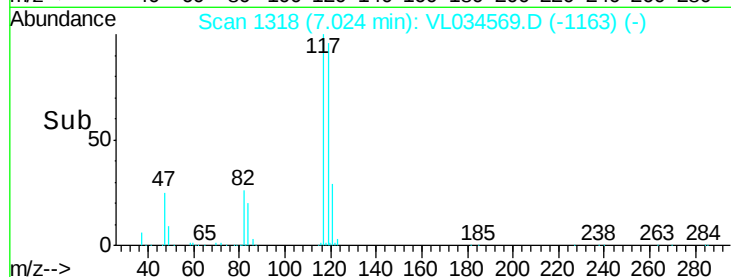
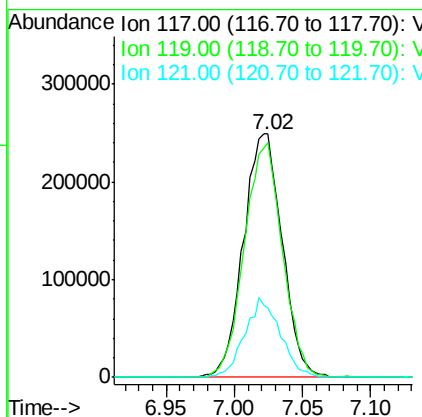
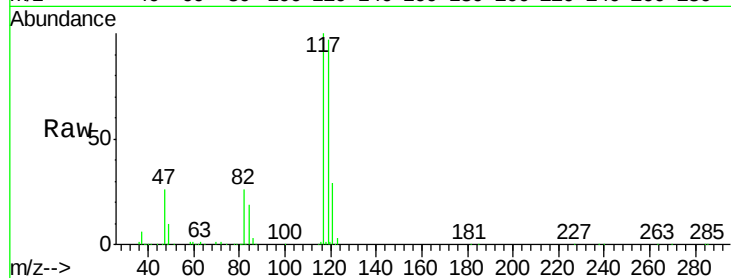
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	491055
Ion Ratio	Lower	Upper	
117	100		
119	96.6	78.7	118.1
121	28.8	25.9	38.9

Manual Integrations
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#36

Benzene

Concen: 2.184 ppbv

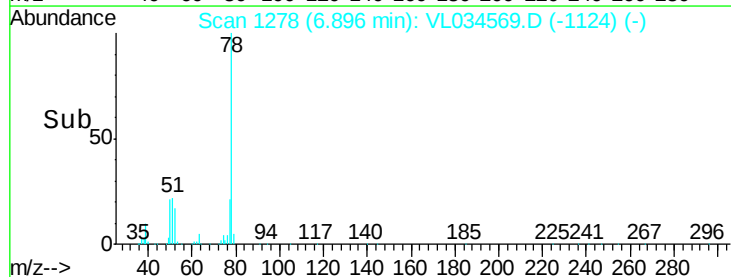
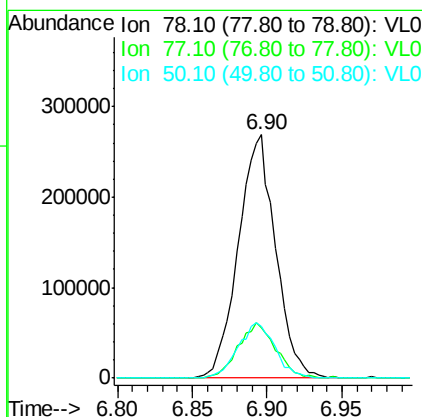
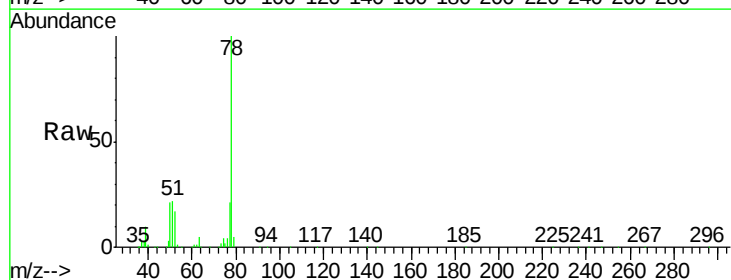
RT: 6.90 min Scan# 1278

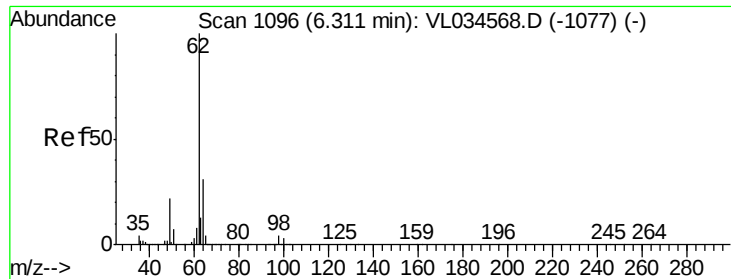
Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Tgt Ion:	78	Resp:	464630
Ion Ratio	Lower	Upper	
78	100		
77	20.8	18.6	28.0
50	21.0	18.8	28.2





#37

1,2-Dichloroethane

Concen: 2.186 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 377667

Ion Ratio Lower Upper

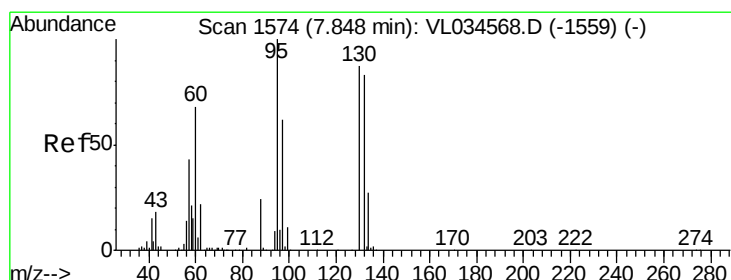
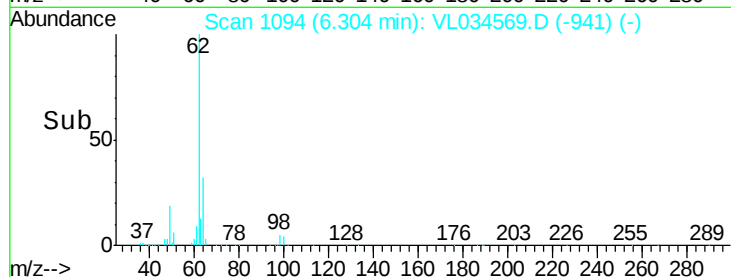
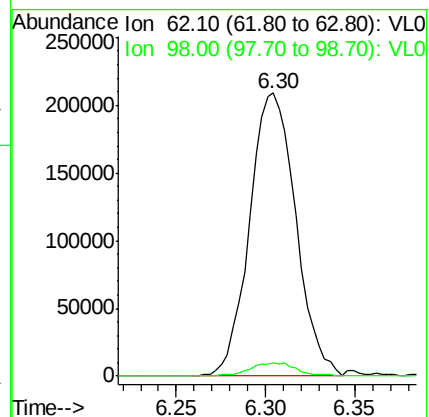
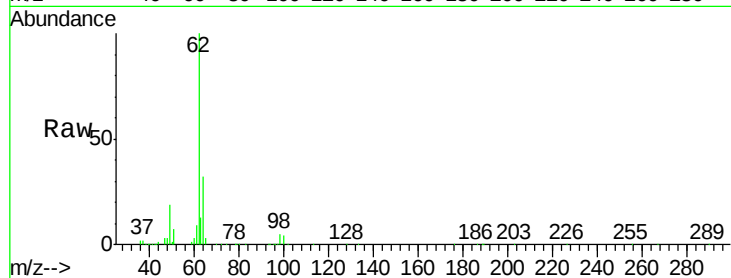
62 100

98 4.8 3.8 5.6

Manual Integrations
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#38

Trichloroethene

Concen: 2.281 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Tgt Ion: 130 Resp: 195998

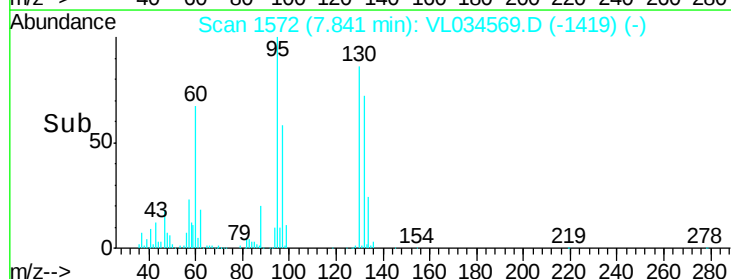
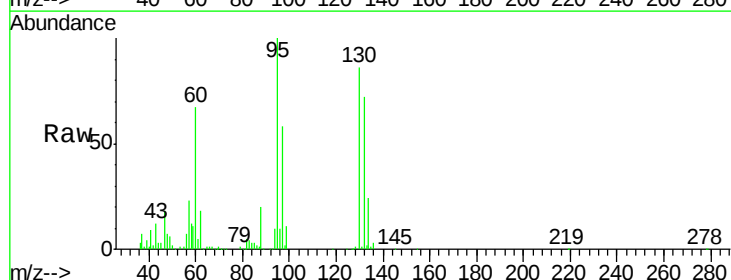
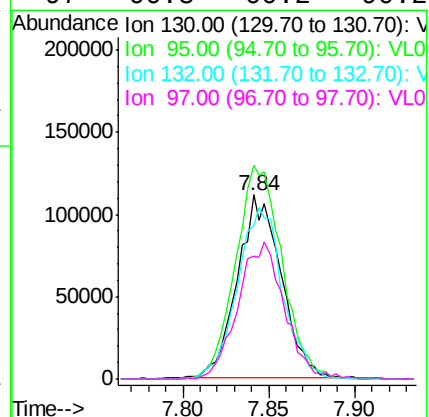
Ion Ratio Lower Upper

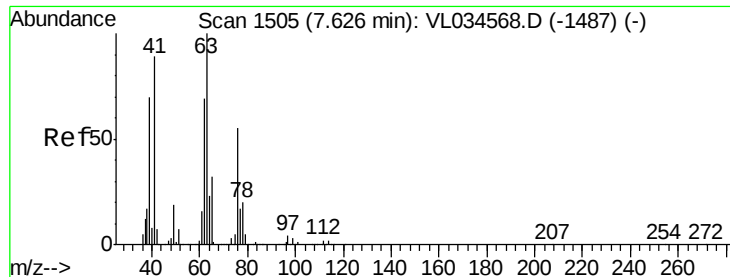
130 100

95 115.7 94.2 141.2

132 83.5 76.1 114.1

97 66.8 60.2 90.2





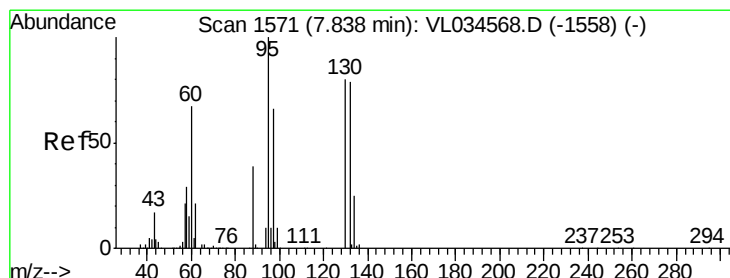
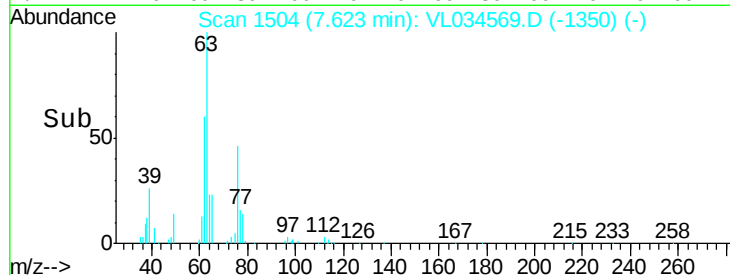
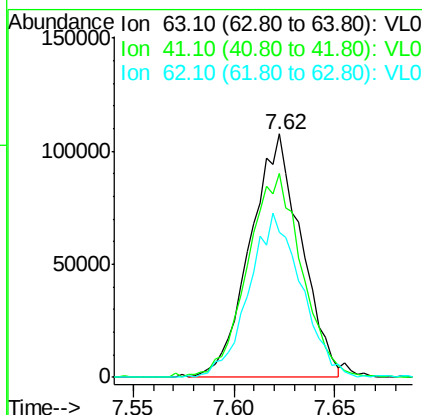
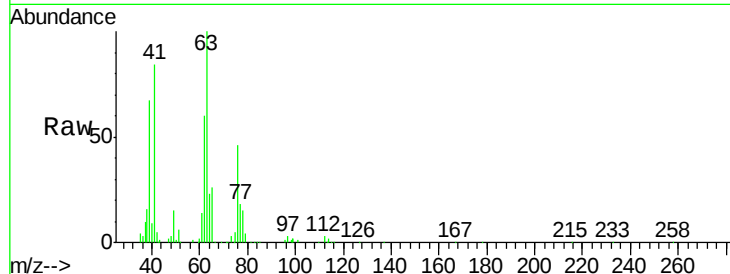
#39
 1,2-Dichloropropane
 Concen: 2.143 ppbv
 RT: 7.62 min Scan# 1504
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	63	Resp:	187455
Ion	Ratio	Lower	Upper
63	100		
41	82.9	66.1	99.1
62	59.1	54.9	82.3

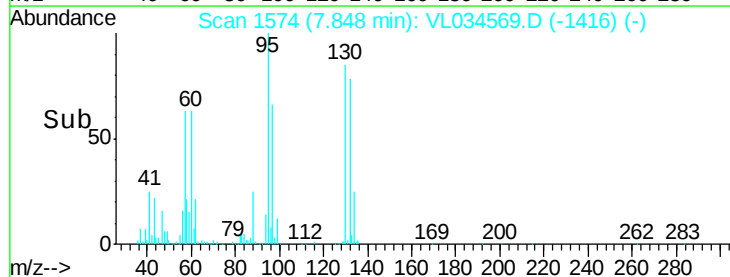
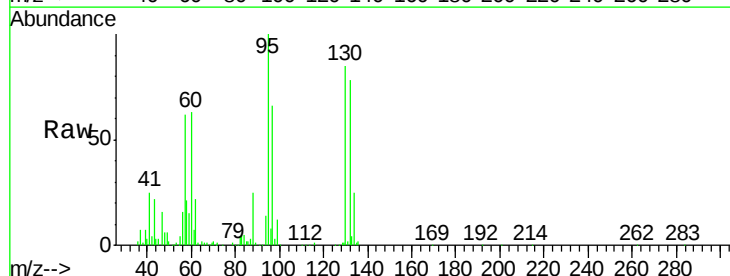
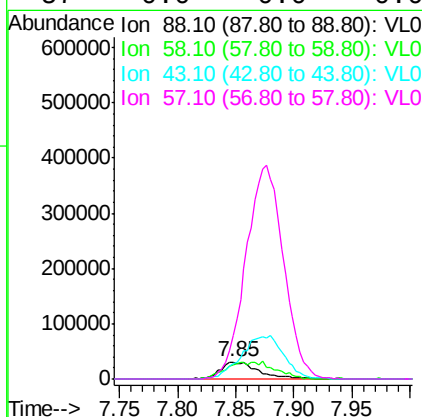
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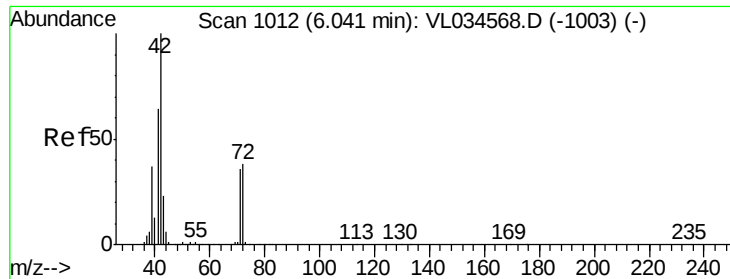
MMDadoda
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#40
 1,4-Dioxane
 Concen: 2.057 ppbv m
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion:	88	Resp:	72822
Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.9	161.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





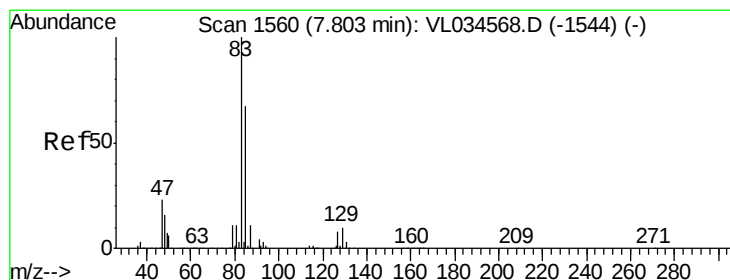
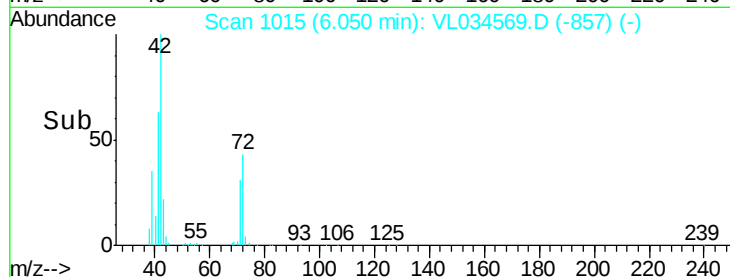
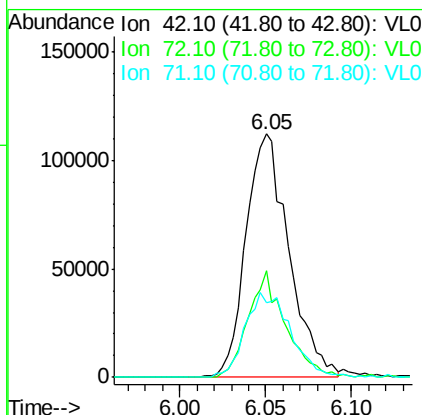
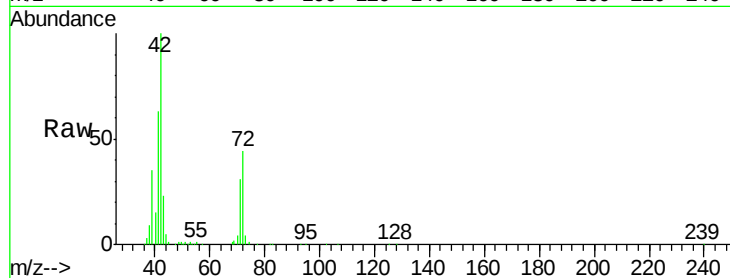
#41
Tetrahydrofuran
Concen: 2.176 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. 0.01 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.6	30.9	46.3
71	37.2	28.9	43.3

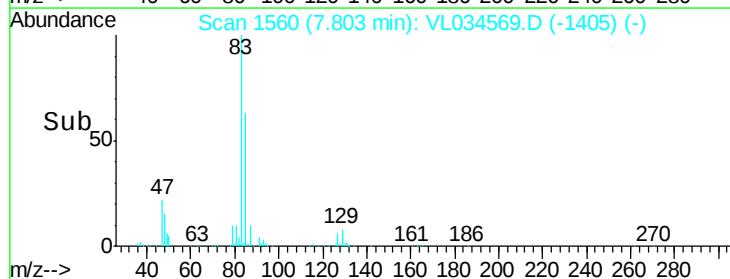
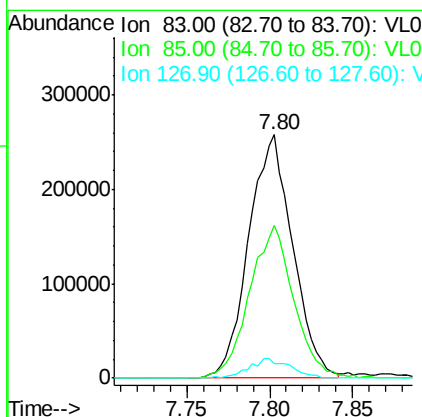
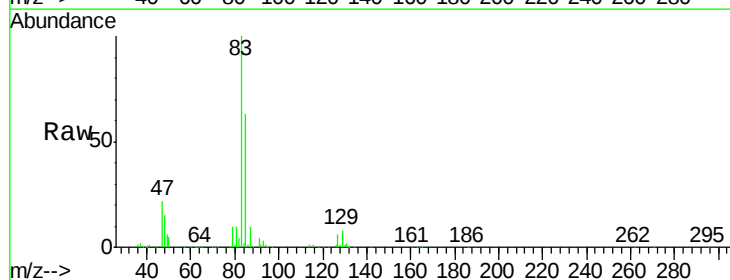
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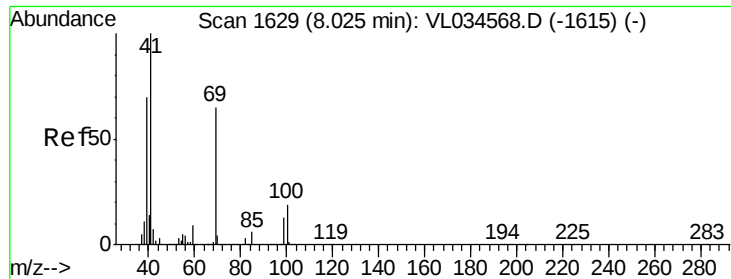
MMDadoda
1/31/2020 4:25:50 PM



#42
Bromodichloromethane
Concen: 2.242 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	49.4	74.2
127	6.1	6.2	9.4#





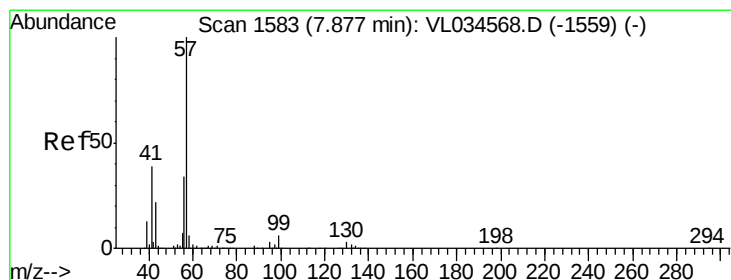
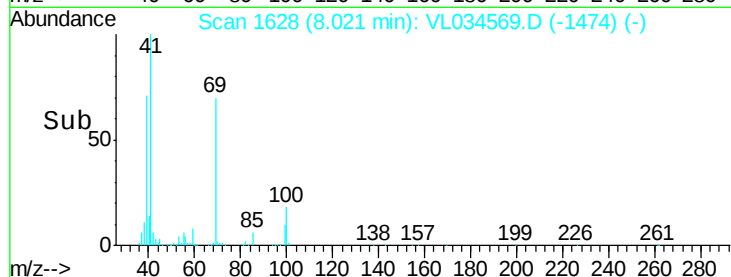
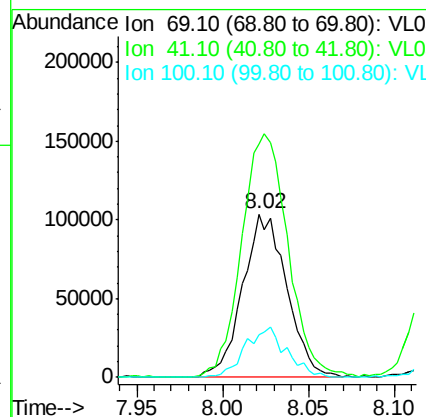
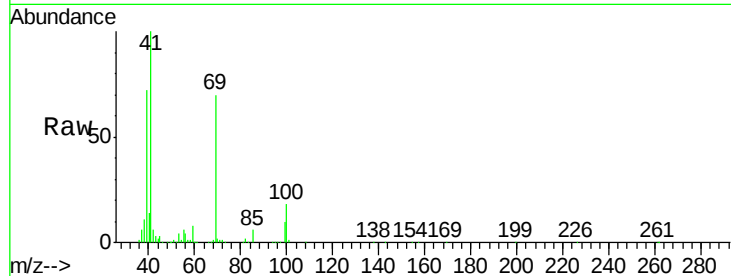
#43
Methvl Methacrvlate
Concen: 2.138 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	156.7	124.0	186.0	
100	28.9	23.1	34.7	

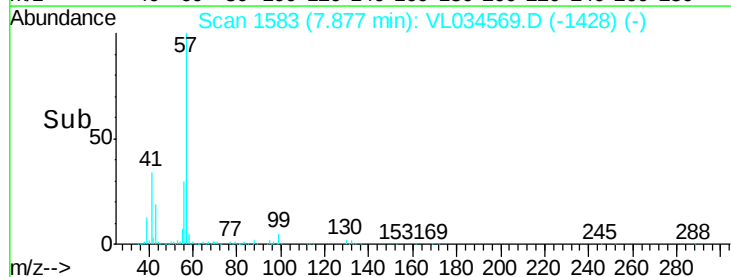
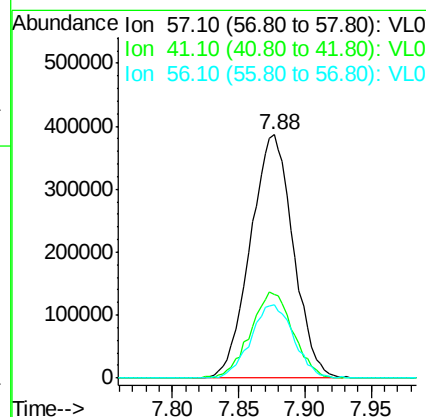
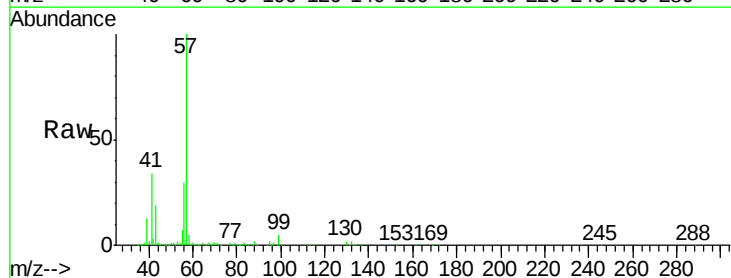
Manual Integrations
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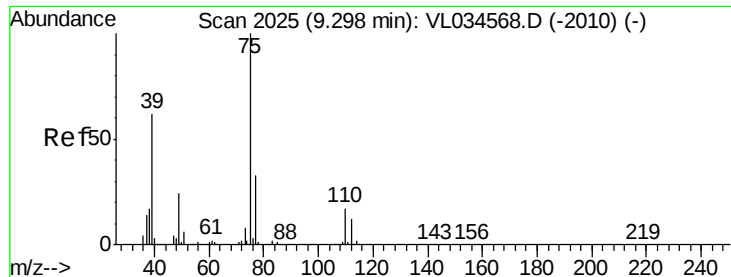
MMDadoda
1/31/2020 4:25:50 PM



#44
2,2,4-Trimethylpentane
Concen: 2.212 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.3	29.0	43.4	
56	30.3	24.9	37.3	





#45

t-1,3-Dichloropropene

Concen: 2.092 ppbv

RT: 9.29 min Scan# 2024

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 233814

Ion Ratio Lower Upper

75 100

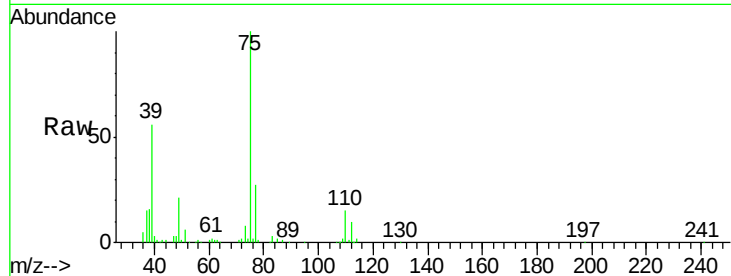
77 27.5 24.2 36.2

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1/31/2020 4:25:50 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.29

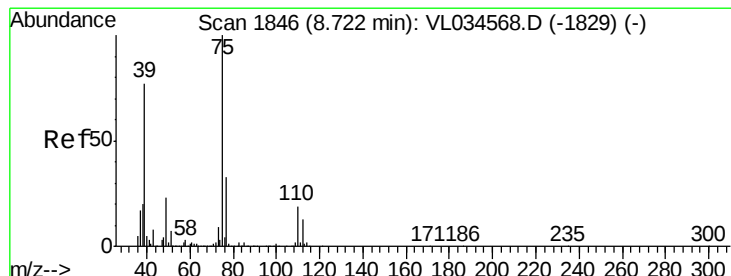
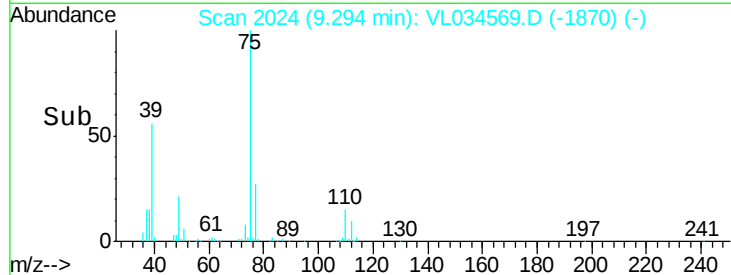
150000

100000

50000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 2.155 ppbv

RT: 8.72 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

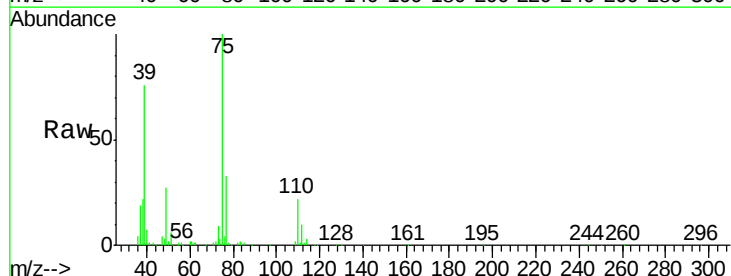
Tgt Ion: 75 Resp: 275344

Ion Ratio Lower Upper

75 100

39 75.4 60.5 90.7

77 32.7 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

8.72

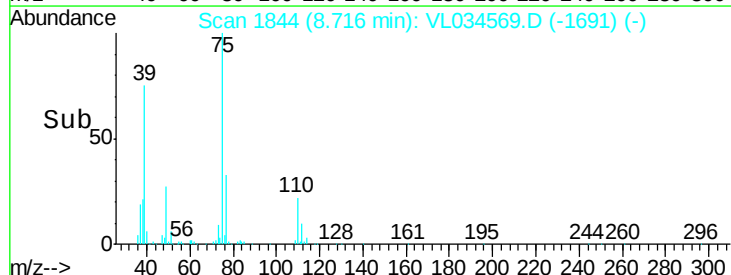
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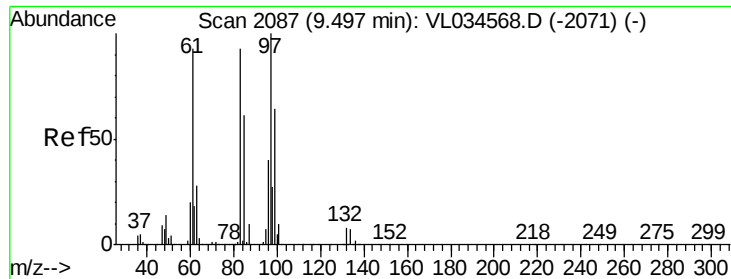
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50000

0

Time-->





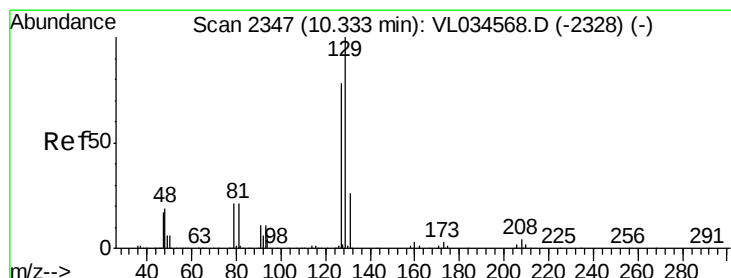
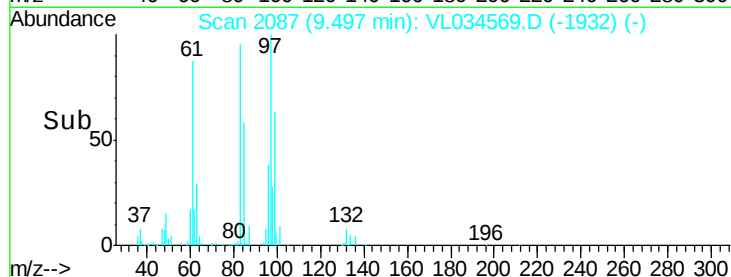
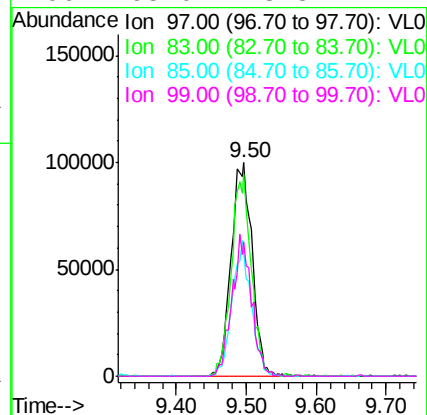
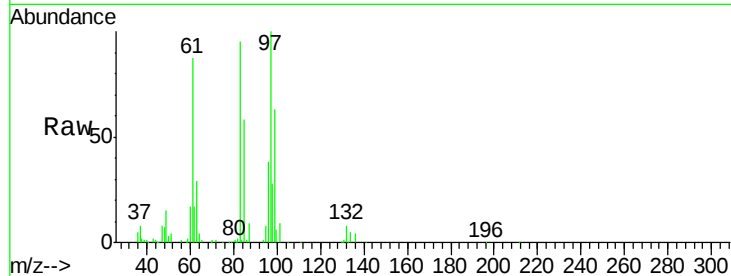
#47
 1,1,2-Trichloroethane
 Concen: 2.155 ppbv m
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		207786		
83	94.8	75.0	112.4		
85	58.4	48.2	72.4		
99	63.0	48.5	72.7		

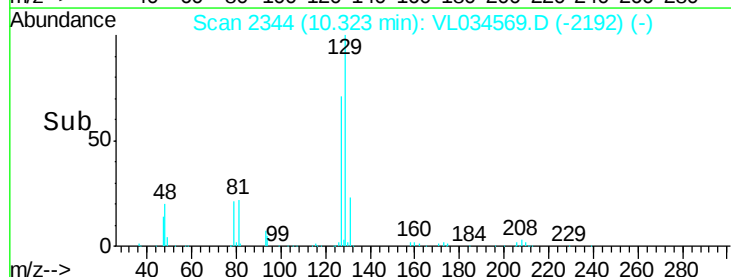
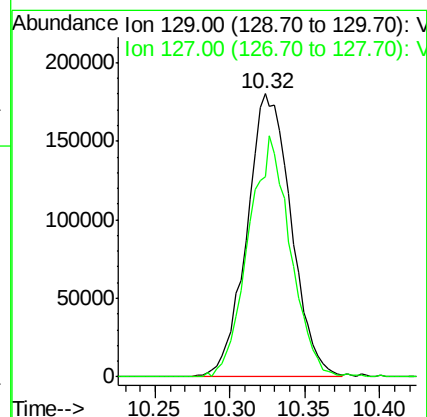
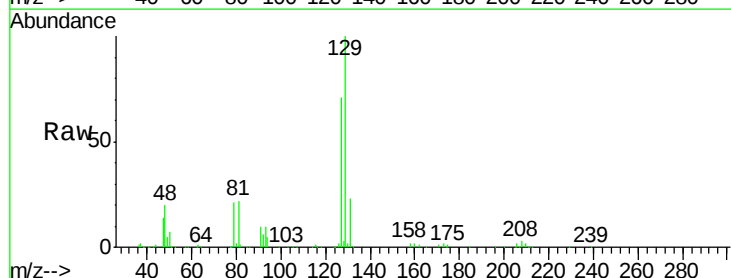
Manual Integrations
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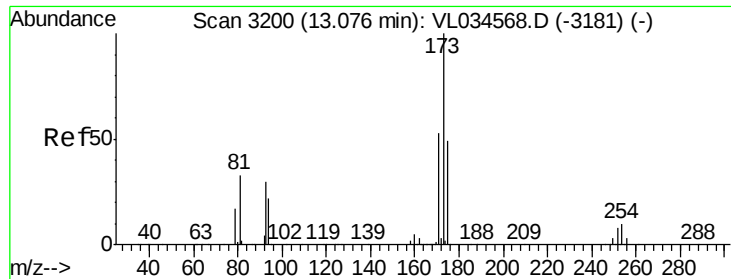
MMDadoda
 1/31/2020 4:25:50 PM



#48
 Dibromochloromethane
 Concen: 2.218 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.01 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		370748		
127	81.0	39.4	118.2		





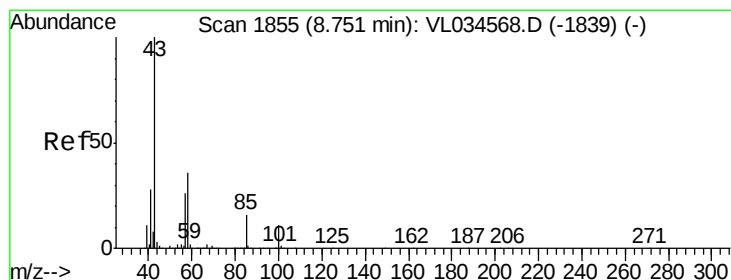
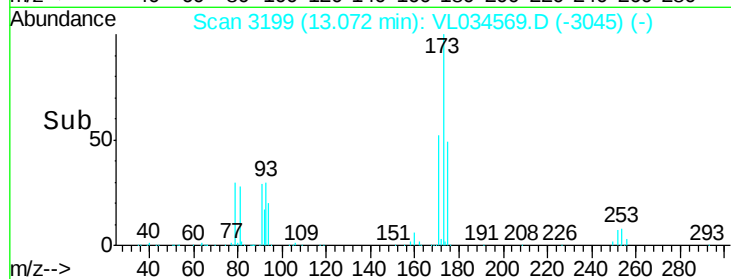
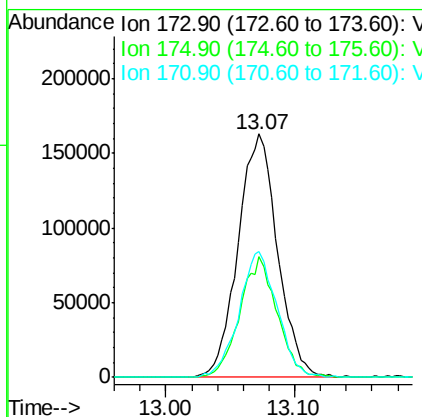
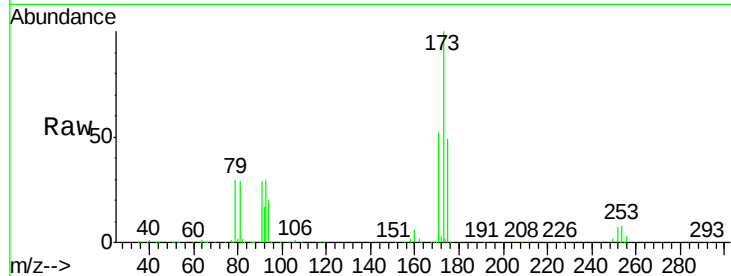
#49
Bromoform
Concen: 2.295 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	39.8	59.8
171	49.9	42.1	63.1

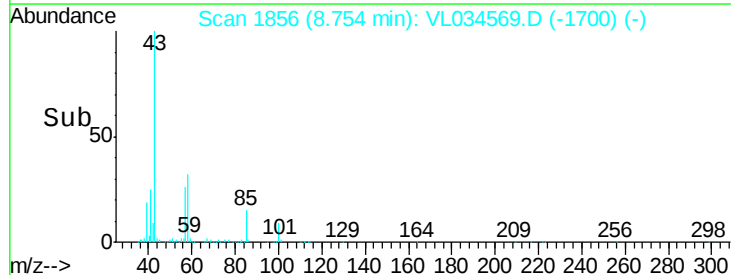
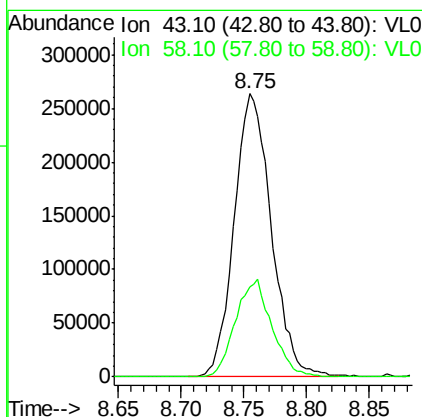
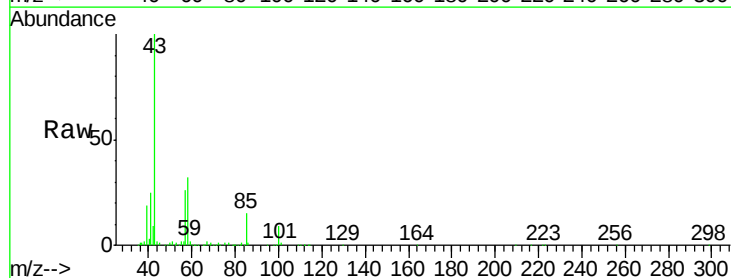
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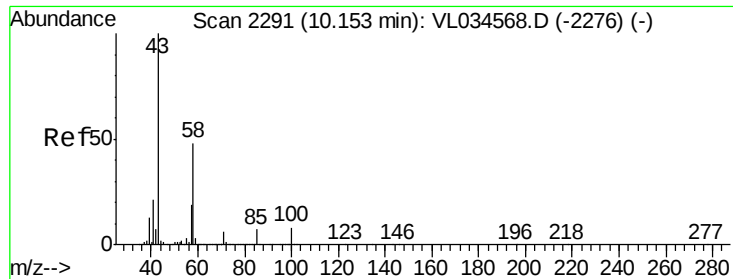
MMDadoda
1/31/2020 4:25:50 PM



#50
4-Methyl-2-Pentanone
Concen: 2.145 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.7	28.2	42.2





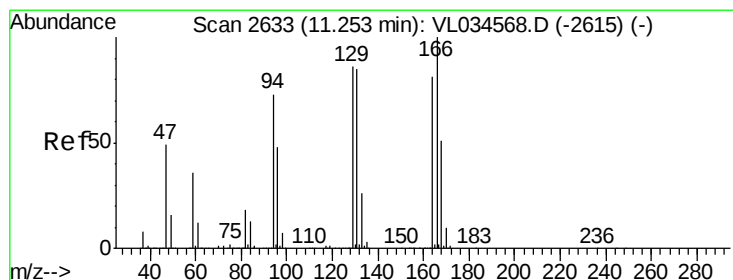
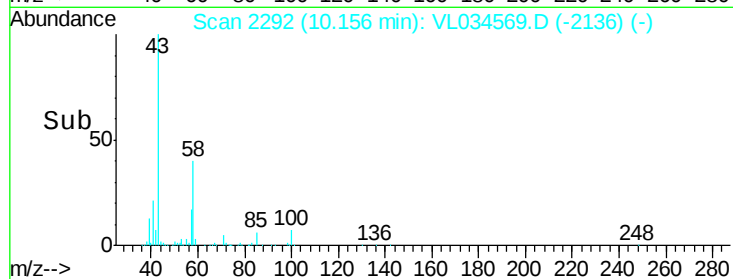
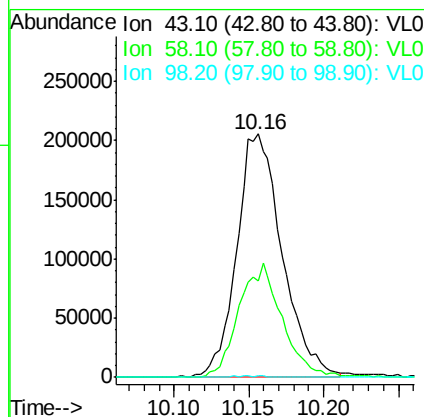
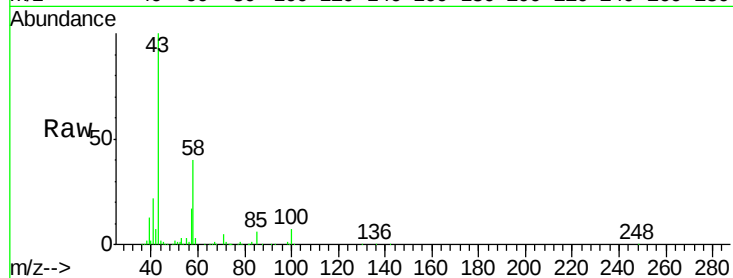
#51
2-Hexanone
Concen: 2.127 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	44.9	37.4	56.0
98	0.5	0.2	0.2#

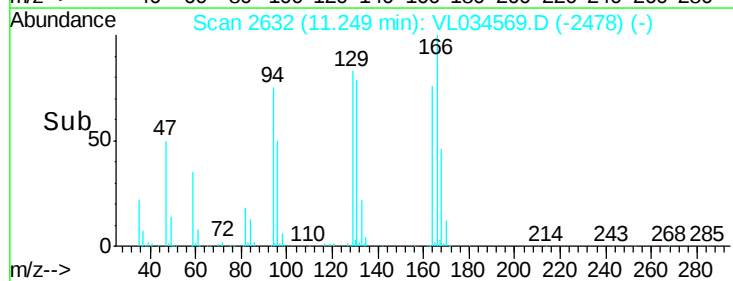
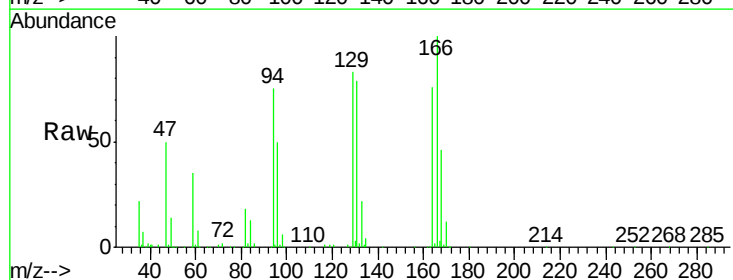
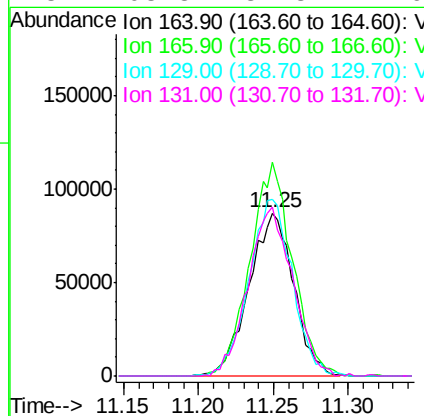
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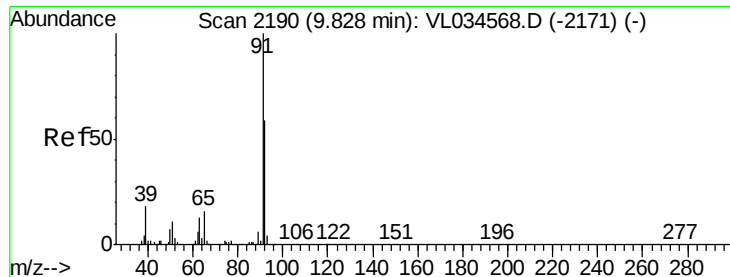
MMDadoda
1/31/2020 4:25:50 PM



#52
Tetrachloroethene
Concen: 2.177 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.0	95.7	143.5
129	108.1	82.2	123.2
131	103.8	81.3	121.9





#53

Toluene

Concen: 2.254 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 526711

Ion Ratio Lower Upper

91 100

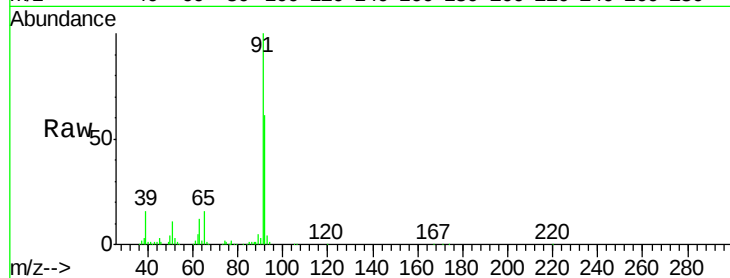
92 58.1 48.4 72.6

Manual Integrations

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MMDadoda

1/31/2020 4:25:50 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

300000

250000

200000

150000

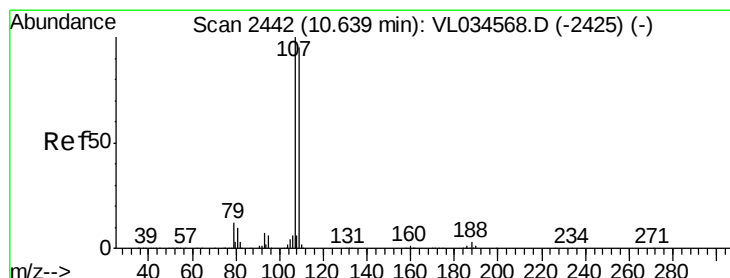
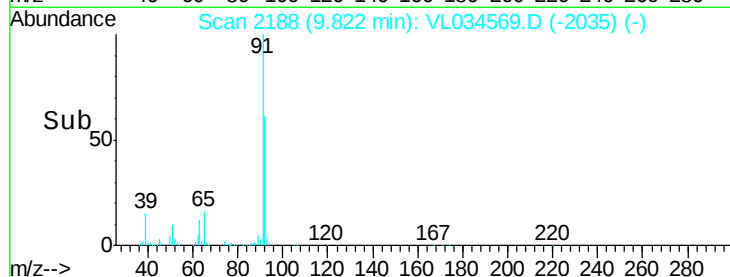
100000

50000

0

9.75 9.80 9.85 9.90

Time-->



#54

1,2-Dibromoethane

Concen: 2.188 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL034569.D

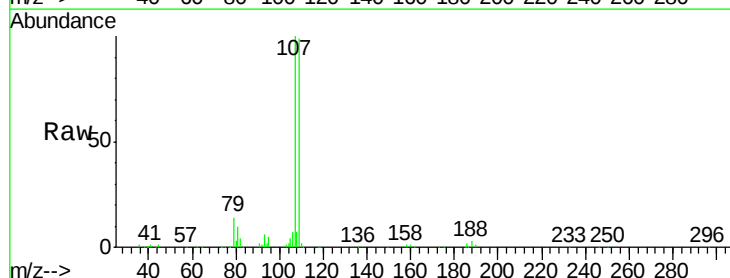
Acq: 30 Jan 2020 12:46

Tgt Ion: 107 Resp: 306999

Ion Ratio Lower Upper

107 100

109 98.4 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

150000

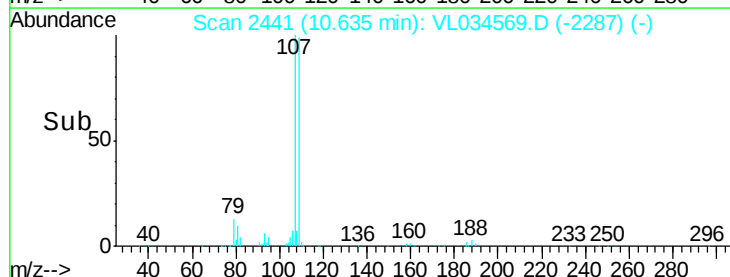
100000

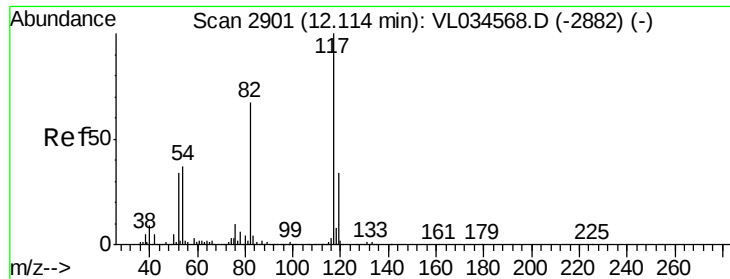
50000

0

10.55 10.60 10.65 10.70

Time-->





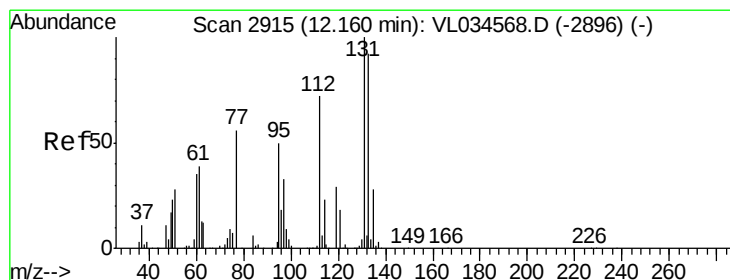
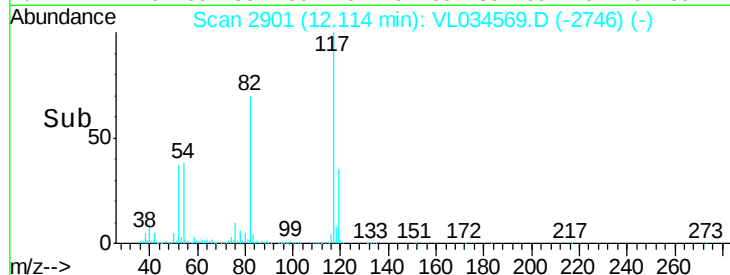
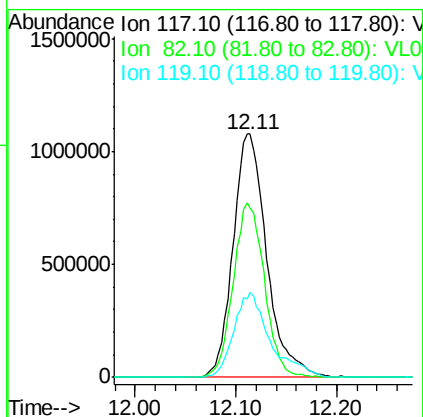
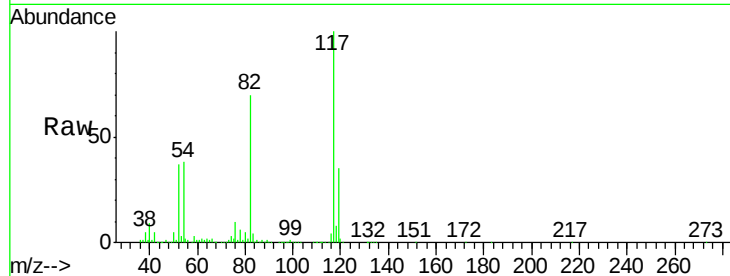
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.6	56.2	84.4
119	37.6	27.1	40.7

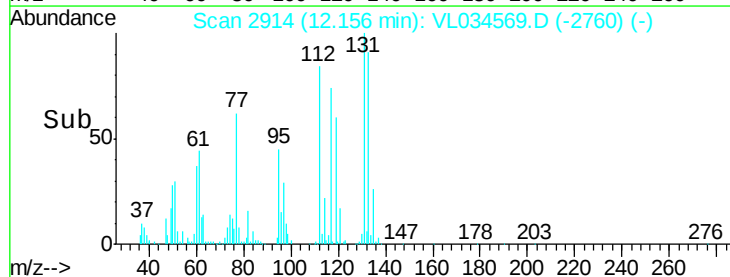
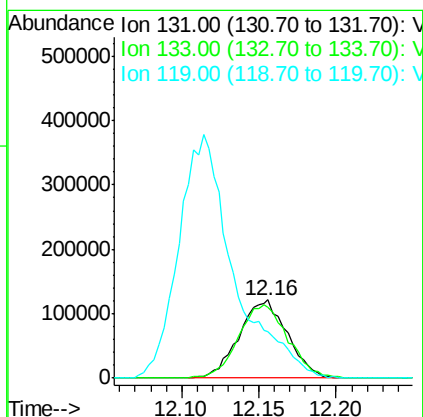
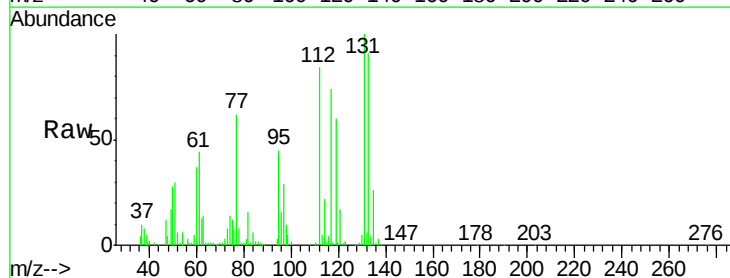
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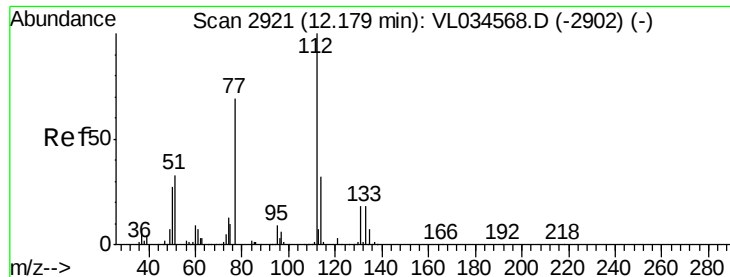
MMDadoda
1/31/2020 4:25:50 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.169 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.8	76.2	114.2
119	358.6	47.1	70.7#





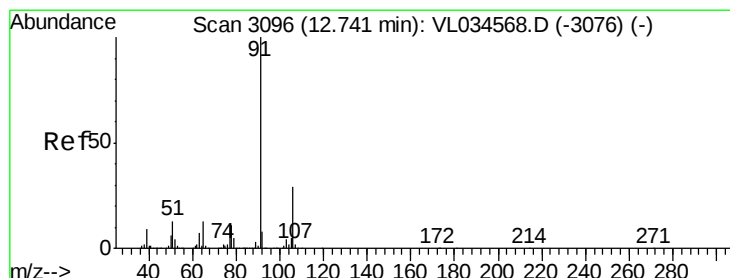
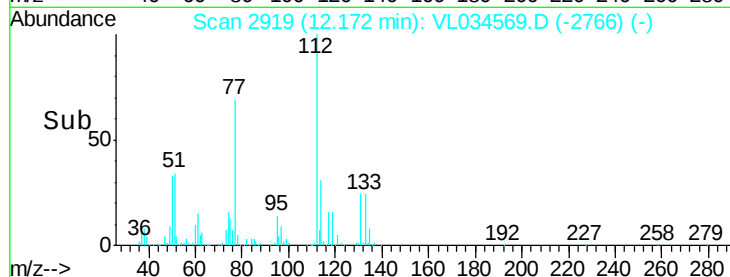
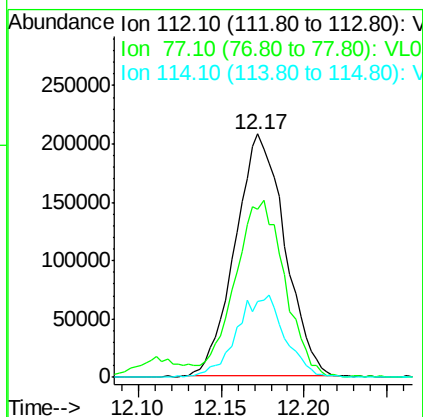
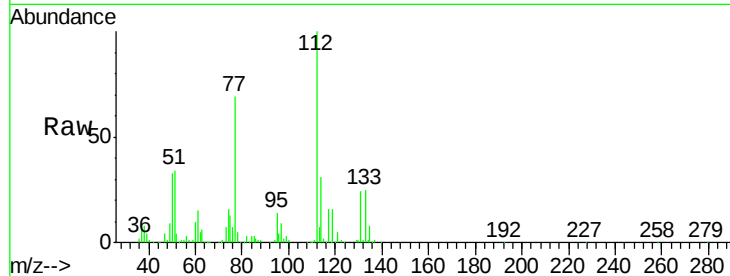
#57
Chlorobenzene
Concen: 2.096 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.01 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.6	57.4	86.0
114	30.8	28.4	34.8

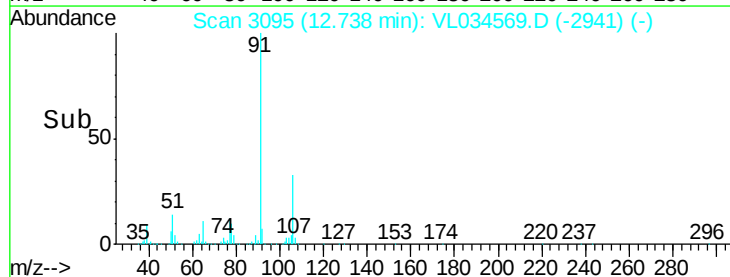
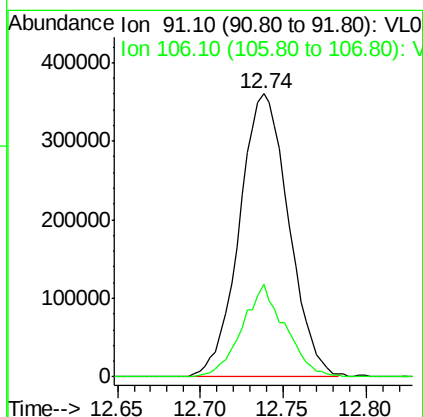
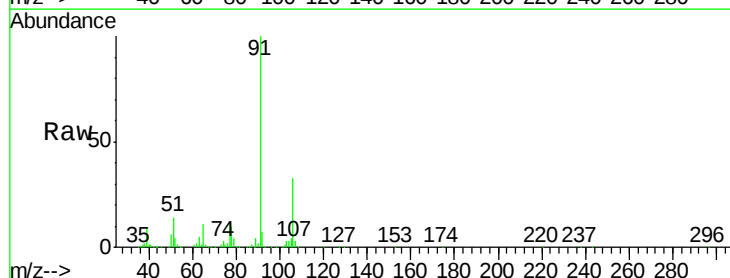
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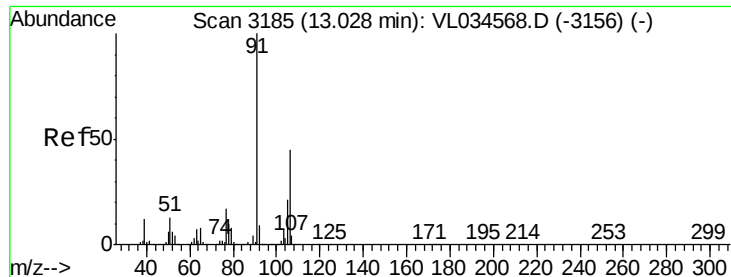
MMDadoda
1/31/2020 4:25:50 PM



#58
Ethyl Benzene
Concen: 2.191 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.6	24.6	36.8





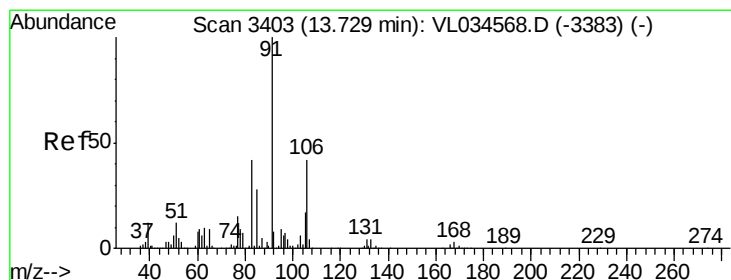
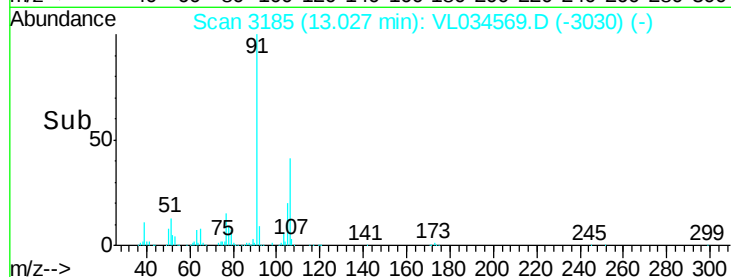
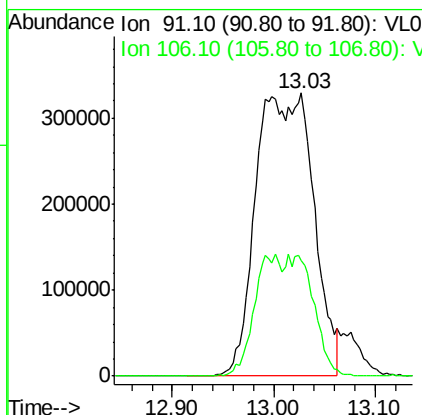
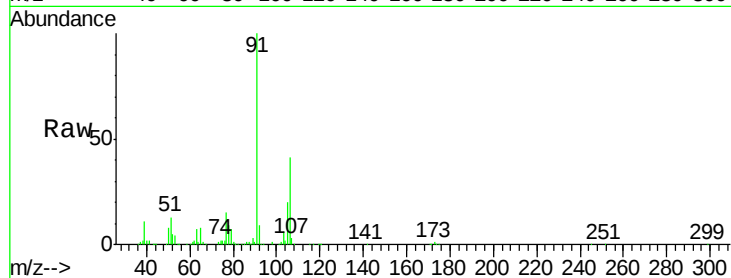
#59
m/p-Xylene
Concen: 4.389 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1294107
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

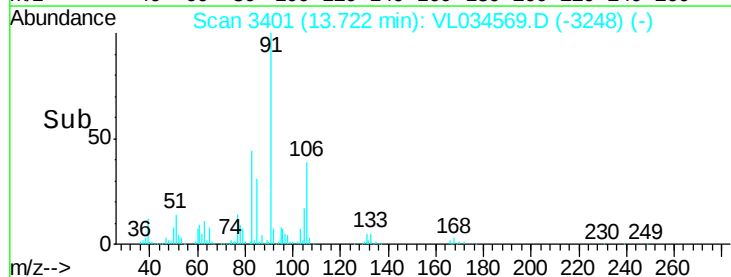
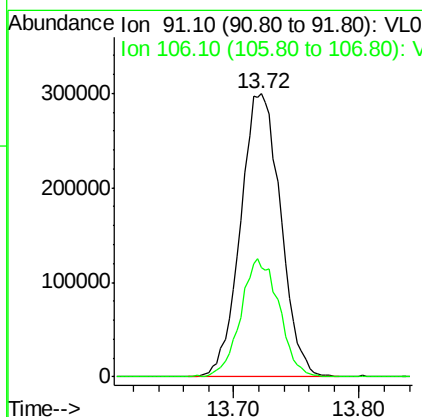
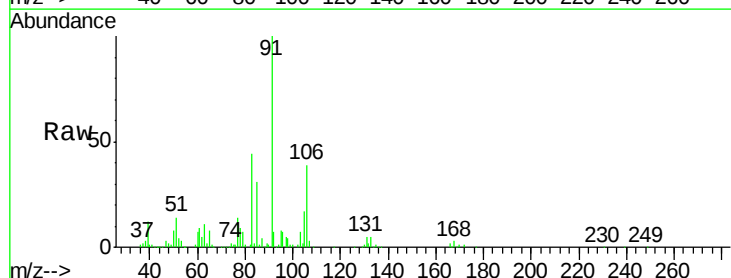
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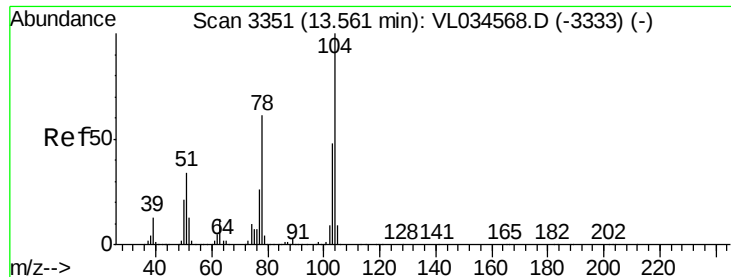
MMDadoda
1/31/2020 4:25:50 PM



#60
o-Xylene
Concen: 2.251 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion: 91 Resp: 666005
Ion Ratio Lower Upper
91 100
106 39.9 21.4 64.3





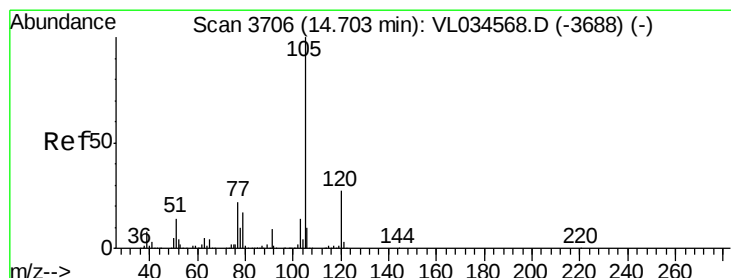
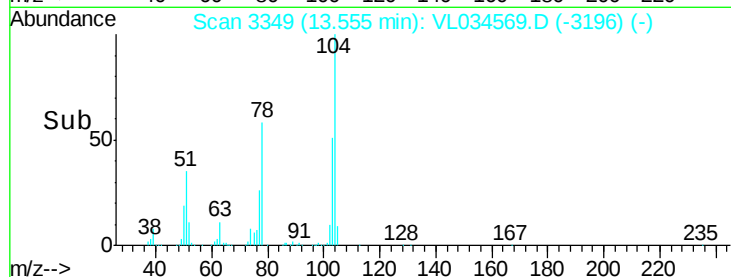
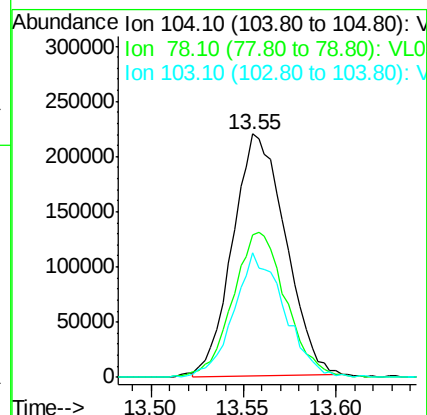
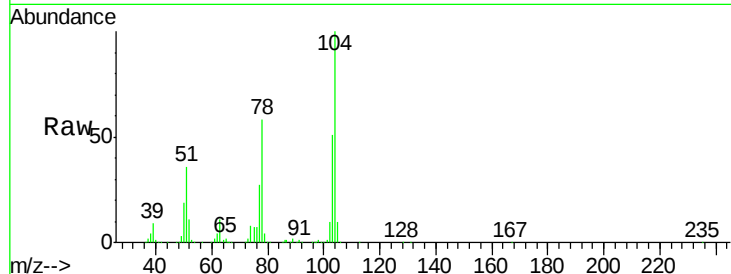
#61
Stvrene
Concen: 2.147 ppbv
RT: 13.55 min Scan# 3349
Delta R.T. -0.01 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.6	47.7	71.5
103	49.3	38.6	58.0

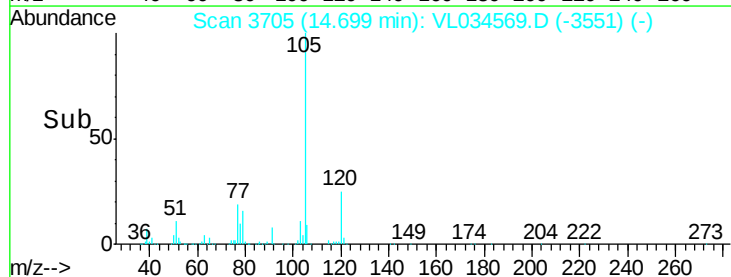
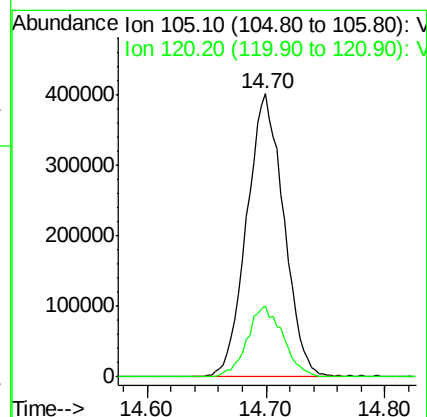
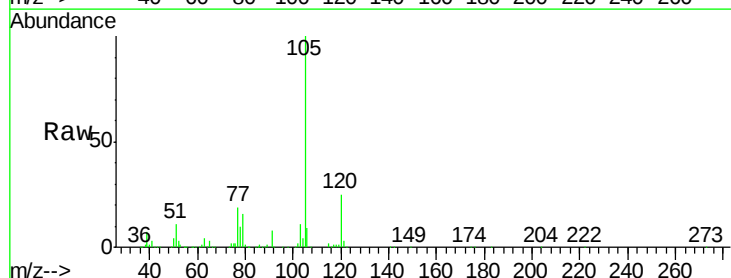
Manual Integrations
APPROVED

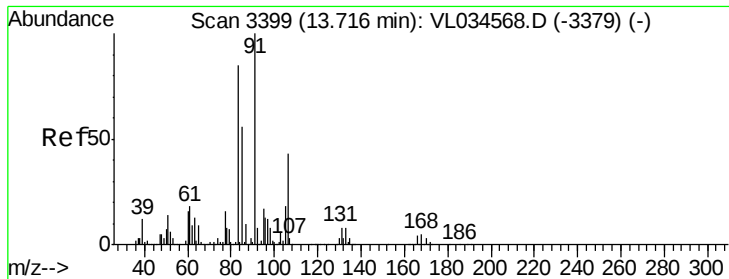
MMDadoda
1/31/2020 4:25:50 PM



#62
Isopropylbenzene
Concen: 2.233 ppbv
RT: 14.70 min Scan# 3705
Delta R.T. -0.00 min
Lab File: VL034569.D
Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.3	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 2.004 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 475700

Ion Ratio Lower Upper

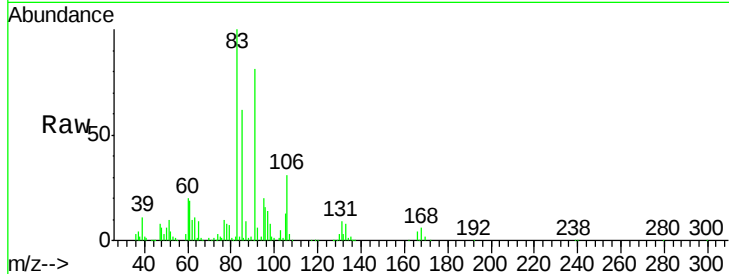
83 100

131 9.5 4.8 14.4

85 65.0 32.5 97.4

Manual Integrations
APPROVED

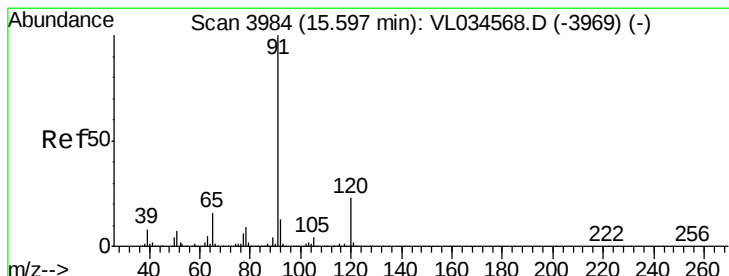
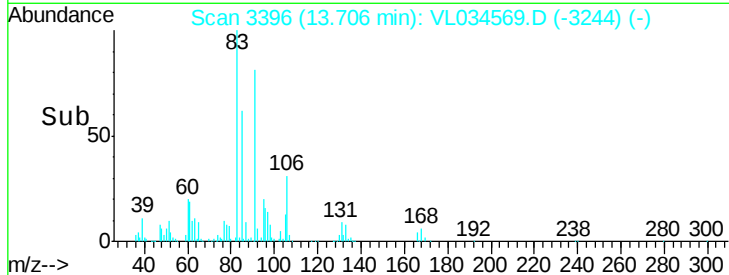
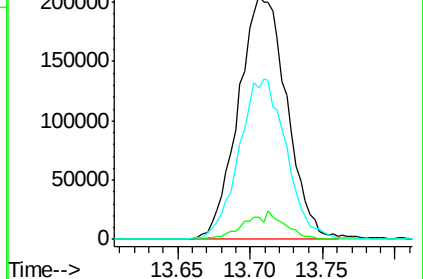
MMDadoda
1/31/2020 4:25:50 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 2.130 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. -0.00 min

Lab File: VL034569.D

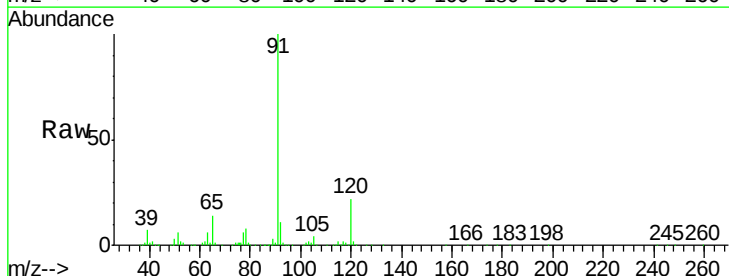
Acq: 30 Jan 2020 12:46

Tgt Ion: 120 Resp: 210478

Ion Ratio Lower Upper

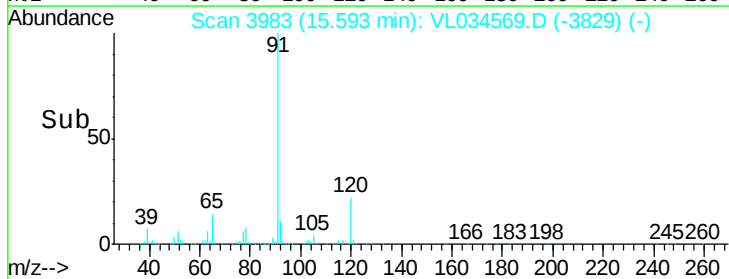
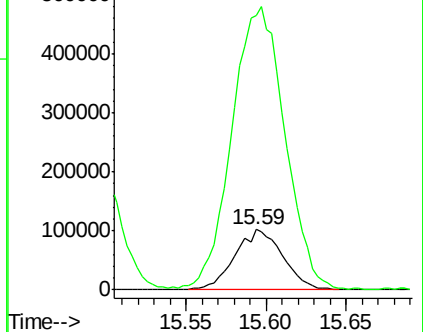
120 100

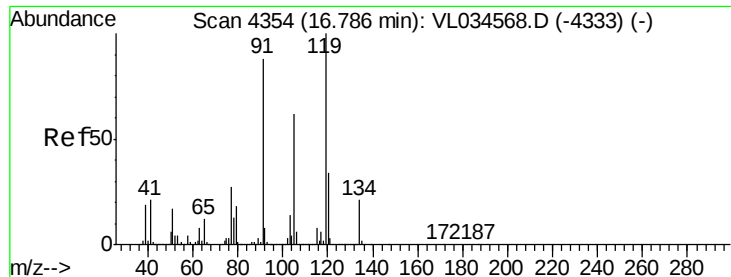
91 516.0 375.6 563.4



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 2.281 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

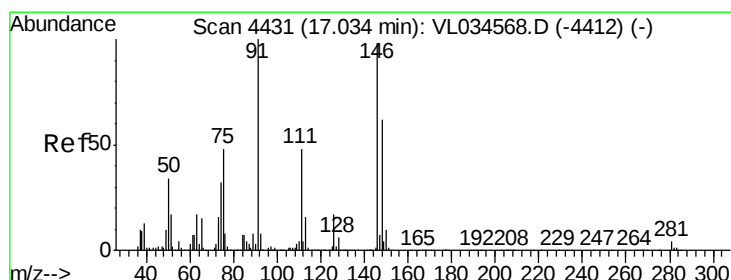
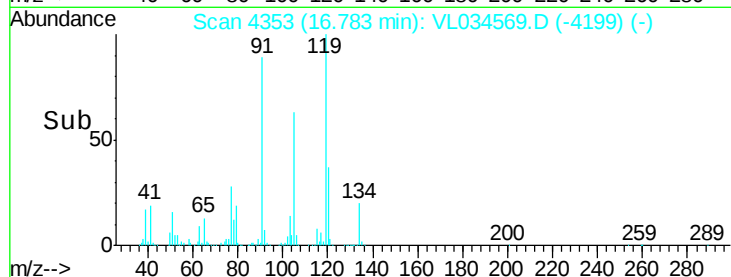
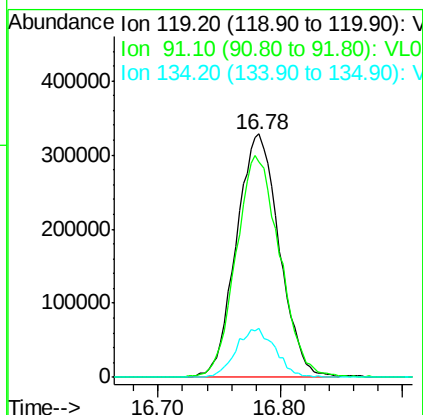
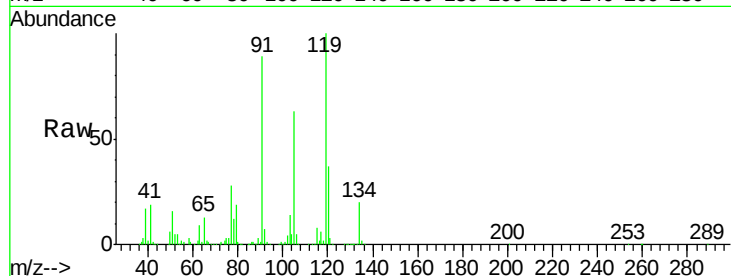
ClientSampleId :

VSTDIC002

Tot Ion:	119	Resp:	797389
Ion Ratio	Lower	Upper	
119	100		
91	93.3	72.0	108.0
134	18.5	16.1	24.1

Manual Integrations
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#66

Benzyl Chloride

Concen: 1.977 ppbv

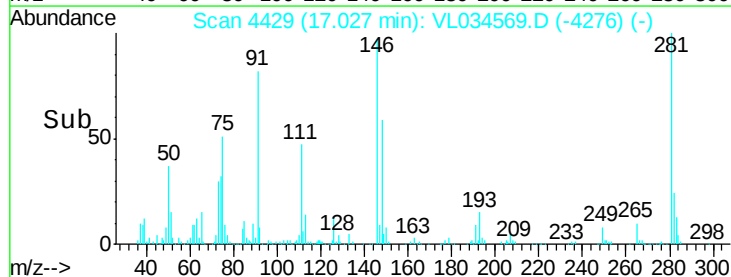
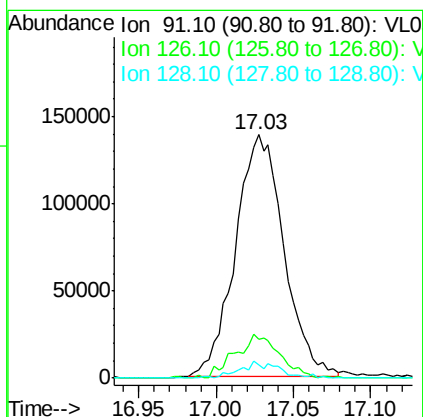
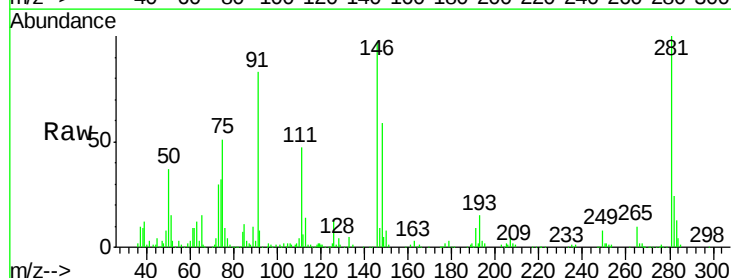
RT: 17.03 min Scan# 4429

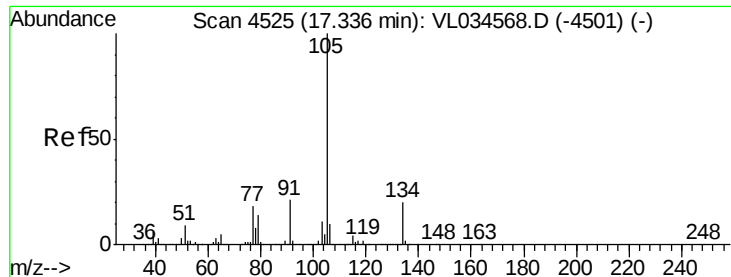
Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Tgt Ion:	91	Resp:	303018
Ion Ratio	Lower	Upper	
91	100		
126	16.9	13.1	19.7
128	5.7	4.2	6.4





#67

sec-Butylbenzene

Concen: 2.230 ppbv

RT: 17.34 min Scan# 4525

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1094874

Ion Ratio Lower Upper

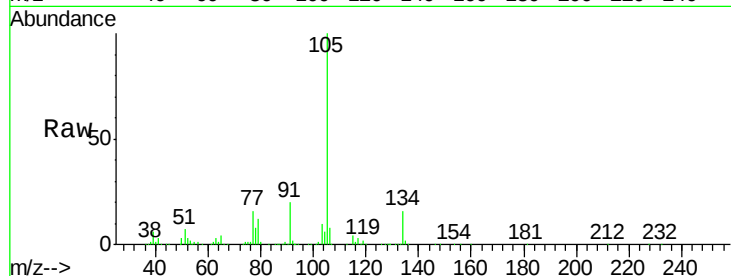
105 100

134 17.8 15.1 22.7

Manual Integrations
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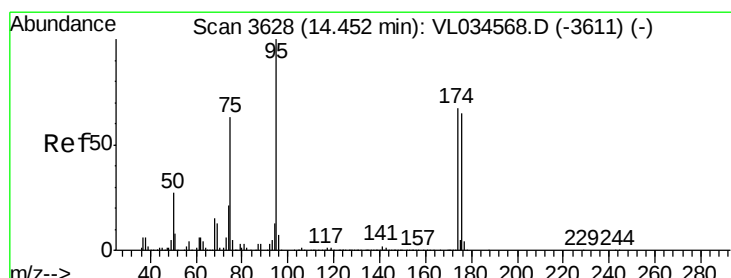
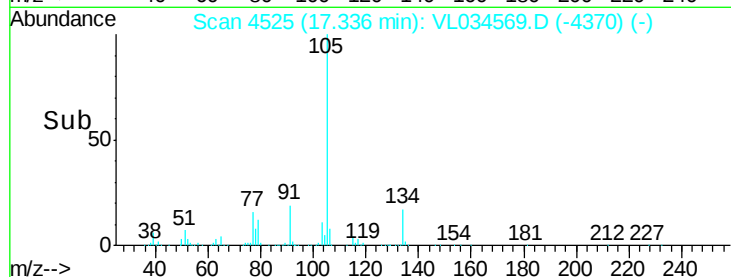
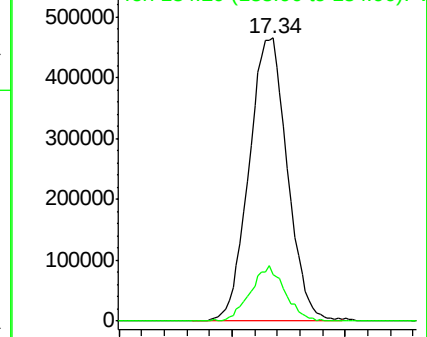
MMDadoda

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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: 9.850 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

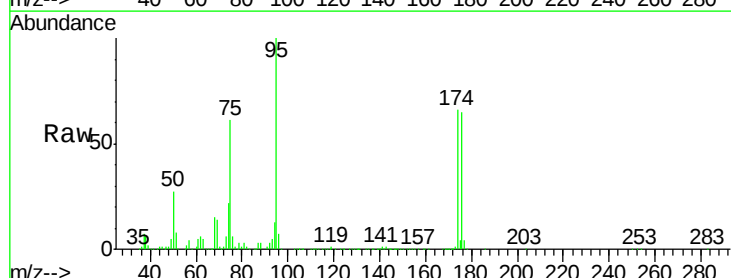
Tgt Ion: 95 Resp: 2054966

Ion Ratio Lower Upper

95 100

174 65.4 52.4 78.6

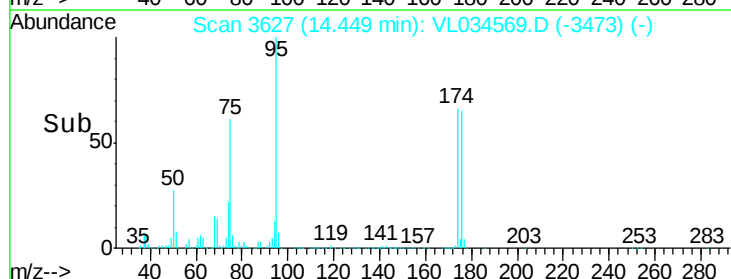
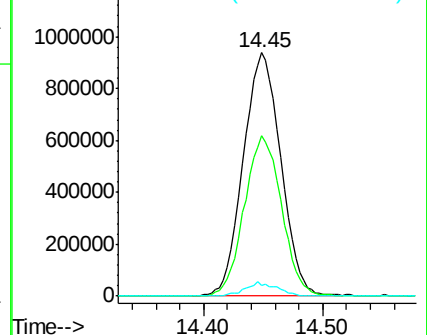
175 4.8 3.9 5.9

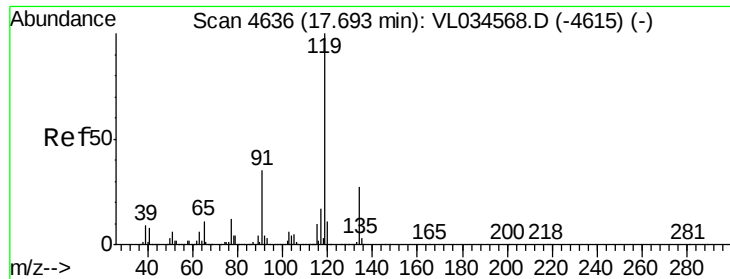


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





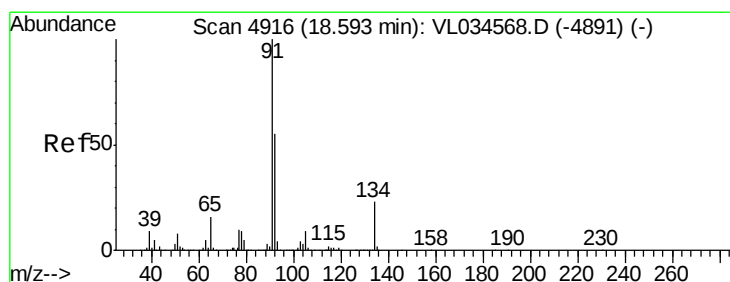
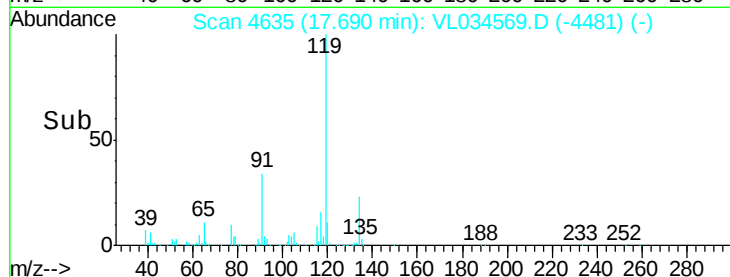
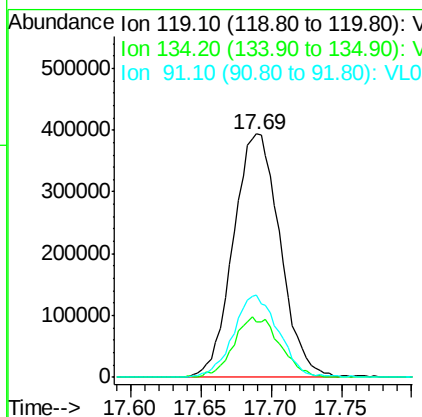
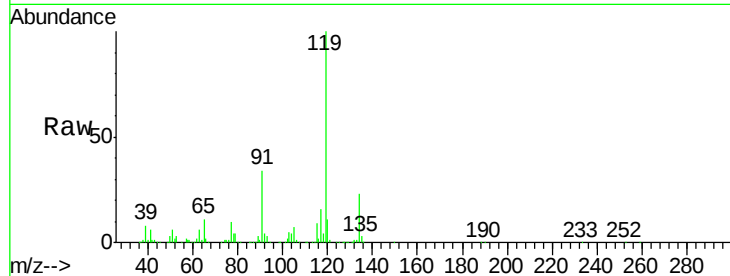
#69
 p-Isopropyltoluene
 Concen: 2.269 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.7	31.1
91	33.2	26.6	39.8

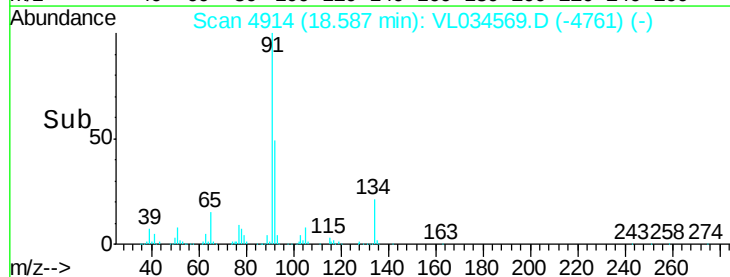
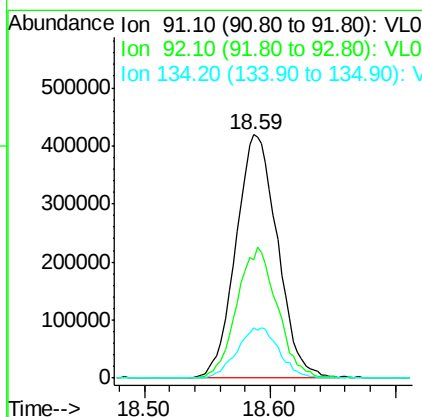
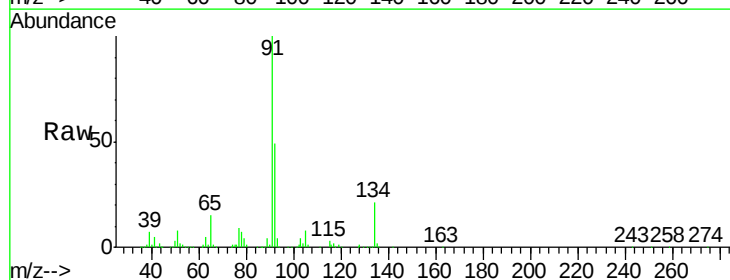
Manual Integrations
 APPROVED

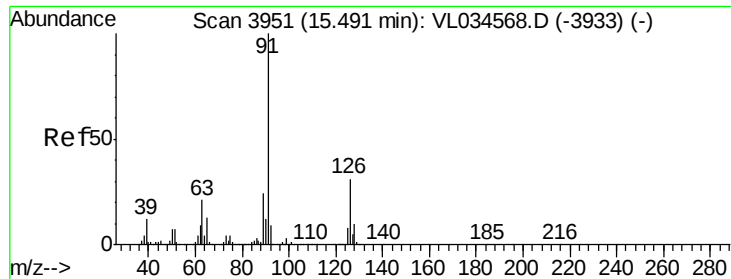
MMDadoda
 1/31/2020 4:25:50 PM



#70
 n-Butylbenzene
 Concen: 2.232 ppbv
 RT: 18.59 min Scan# 4914
 Delta R.T. -0.01 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.7	43.8	65.6
134	21.1	18.0	27.0





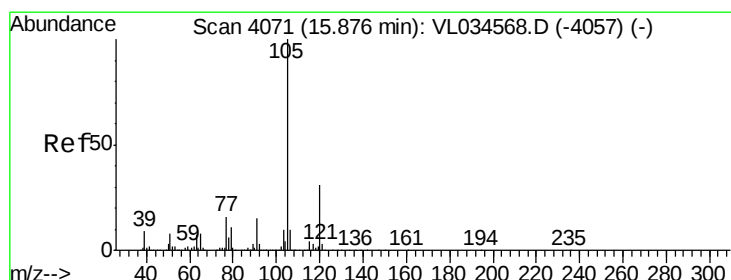
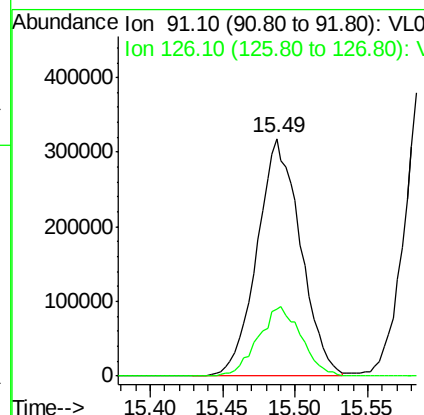
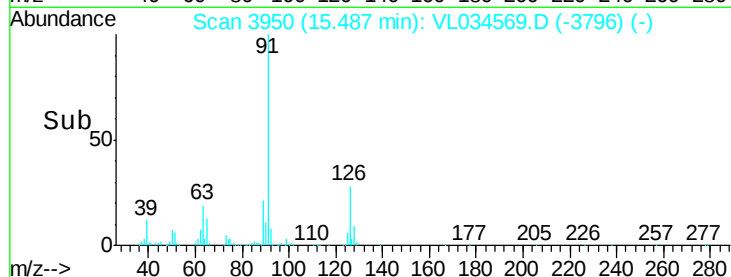
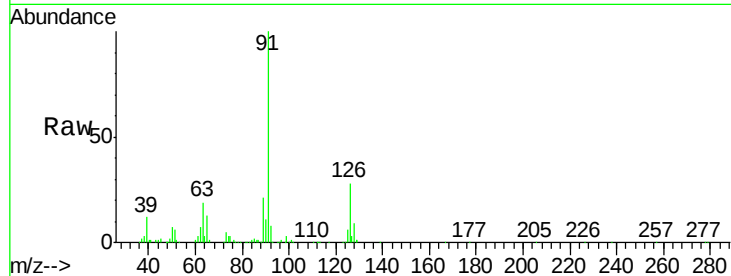
#71
 2-Chlorotoluene
 Concen: 2.208 ppbv
 RT: 15.49 min Scan# 3950
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 91 Resp: 663610
 Ion Ratio Lower Upper
 91 100
 126 29.3 12.0 47.8

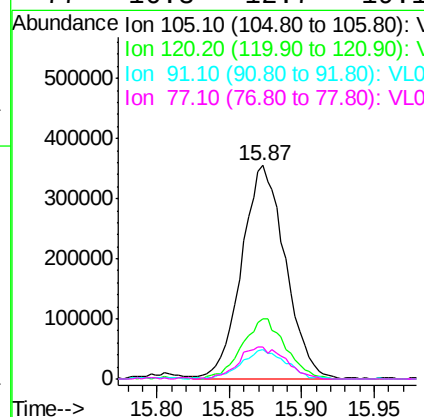
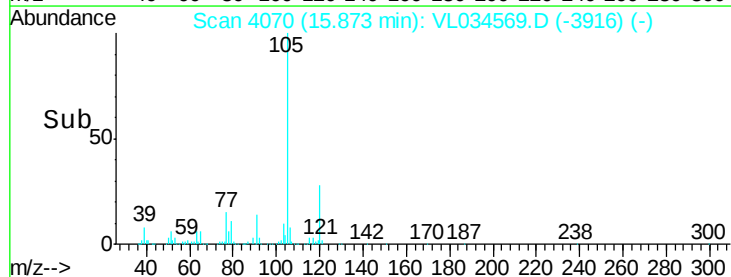
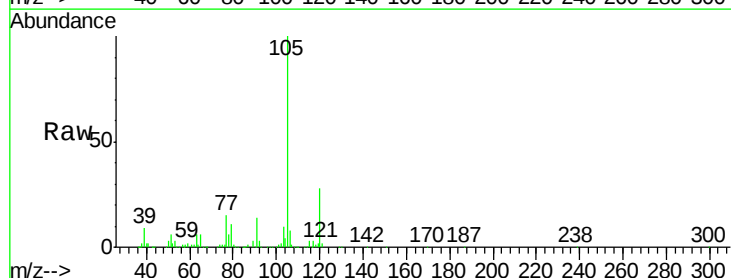
Manual Integrations
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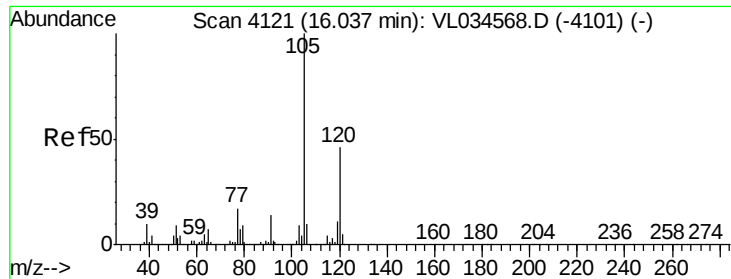
MMDadoda
 1/31/2020 4:25:50 PM



#72
 4-Ethyltoluene
 Concen: 2.229 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion: 105 Resp: 737973
 Ion Ratio Lower Upper
 105 100
 120 28.6 23.7 35.5
 91 14.3 11.5 17.3
 77 16.3 12.7 19.1





#73

1,3,5-Trimethylbenzene

Concen: 2.233 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. -0.00 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 725343

Ion Ratio Lower Upper

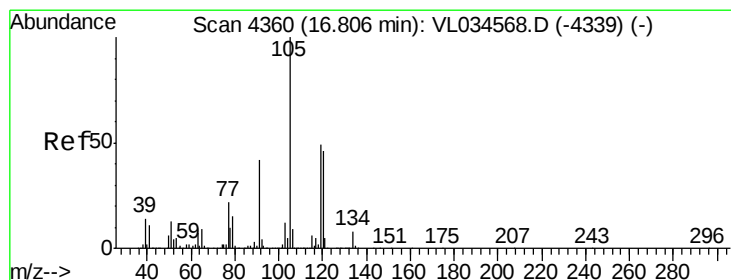
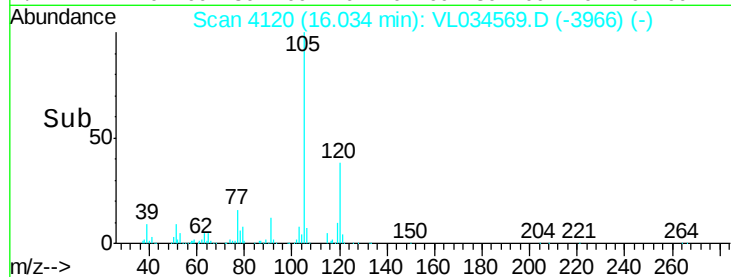
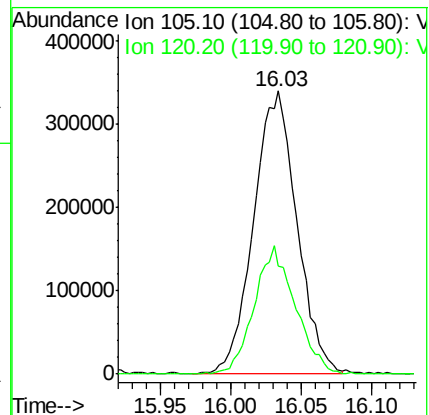
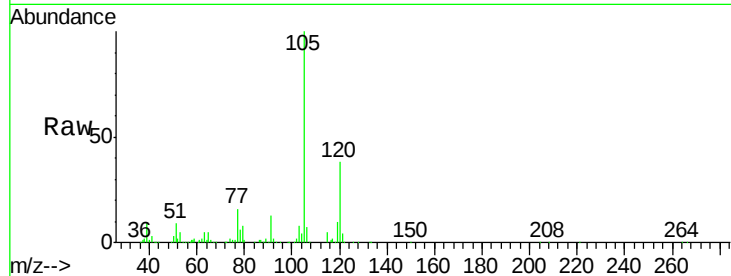
105 100

120 38.1 34.6 52.0

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 2.260 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Tgt Ion:105 Resp: 785114

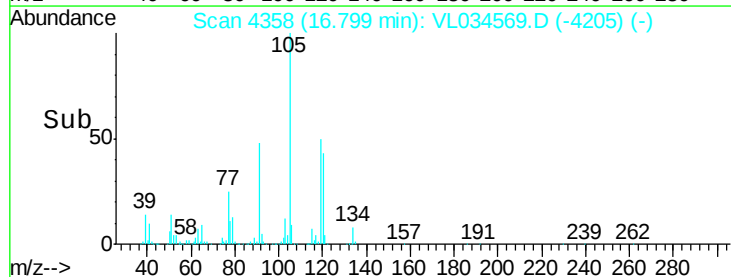
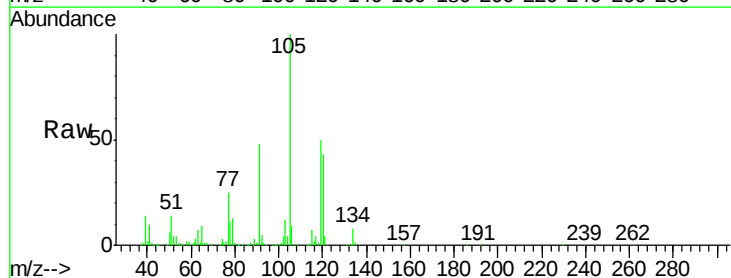
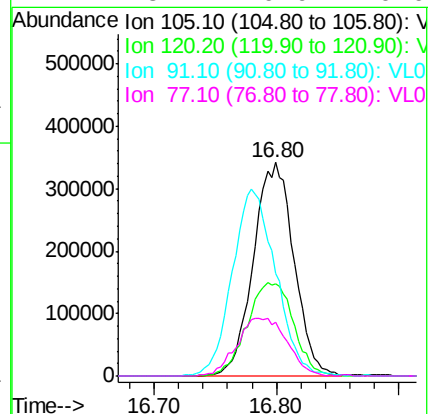
Ion Ratio Lower Upper

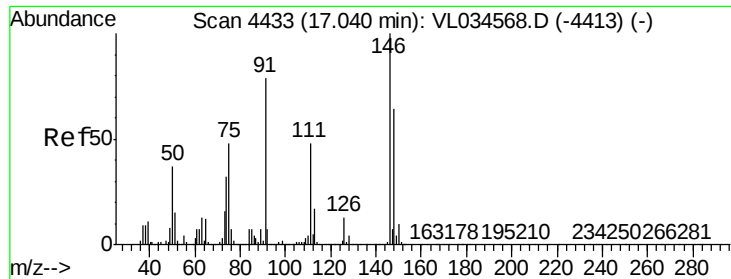
105 100

120 43.3 36.7 55.1

91 47.6 44.0 66.0

77 25.1 19.9 29.9





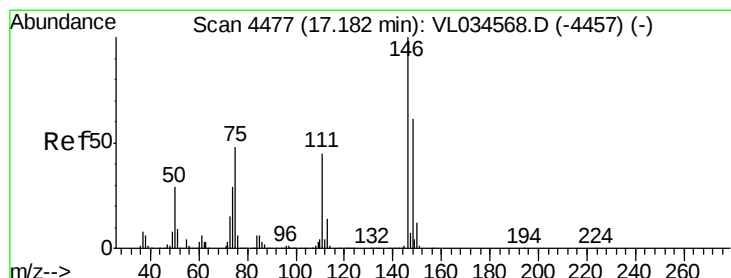
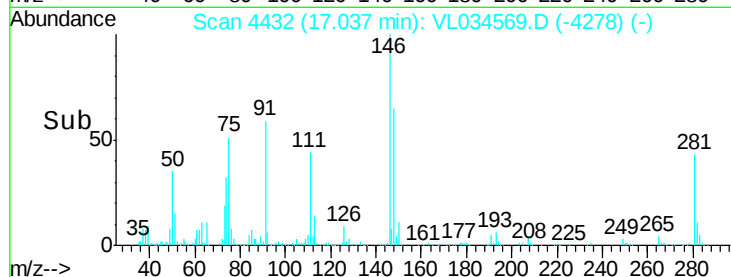
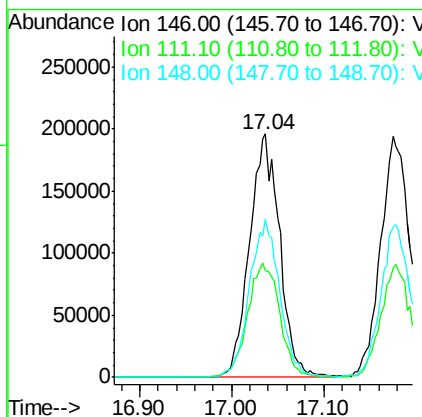
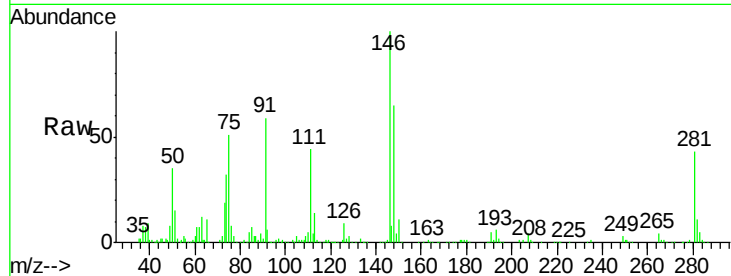
#75
 1,3-Dichlorobenzene
 Concen: 2.136 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. -0.00 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.1	75.3#
148	0.0	33.0	99.0#

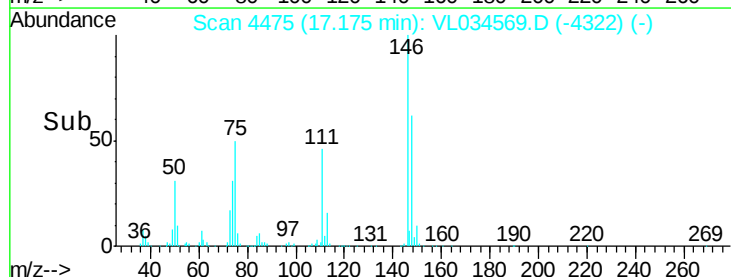
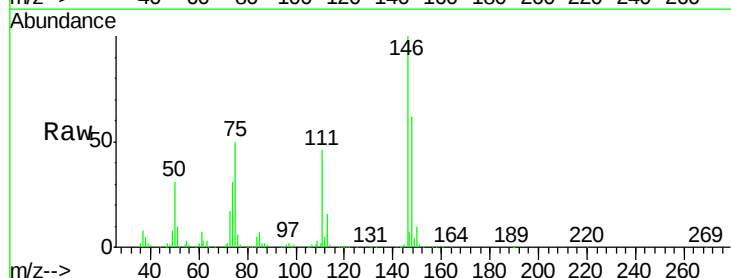
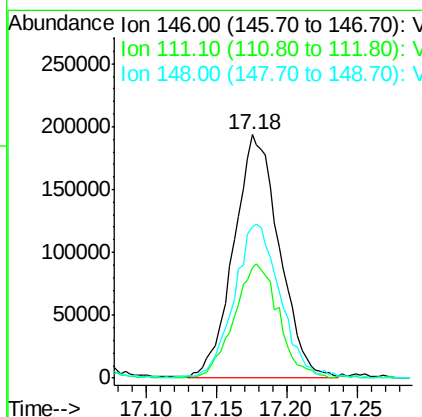
Manual Integrations
 APPROVED

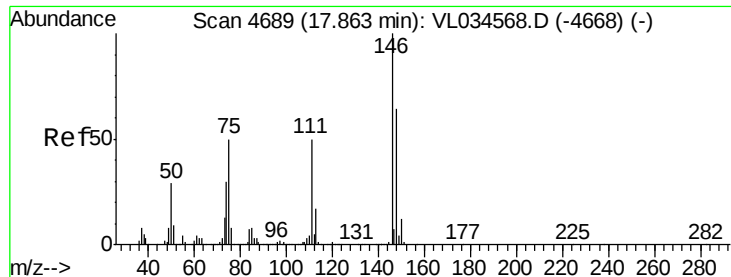
MMDadoda
 1/31/2020 4:25:50 PM



#76
 1,4-Dichlorobenzene
 Concen: 2.188 ppbv
 RT: 17.18 min Scan# 4475
 Delta R.T. -0.01 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.5	70.6
148	64.3	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 2.192 ppbv m

RT: 17.86 min Scan# 4687

Delta R.T. -0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

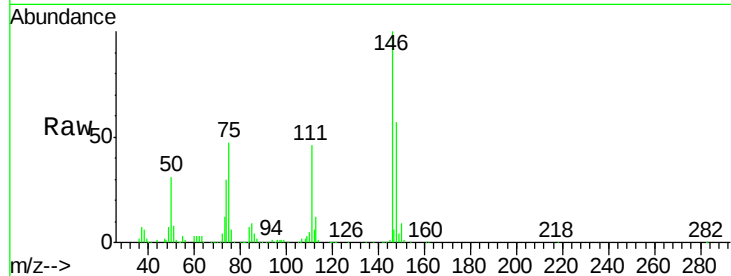
ClientSampleId :

VSTDIC002

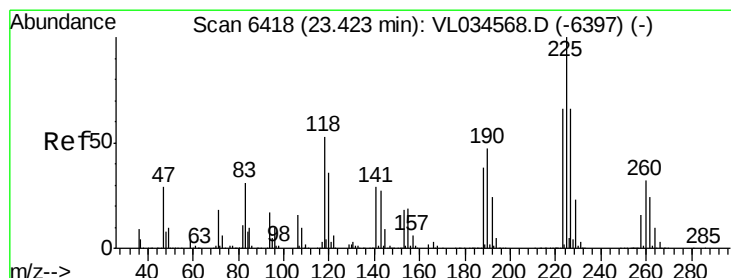
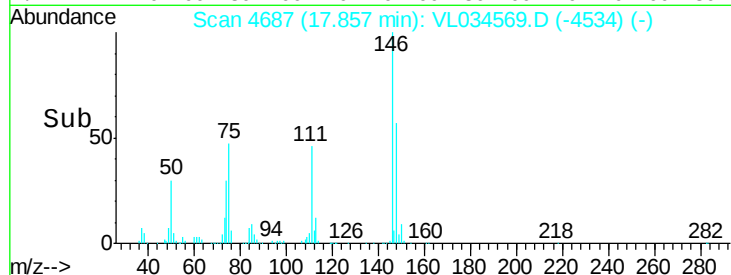
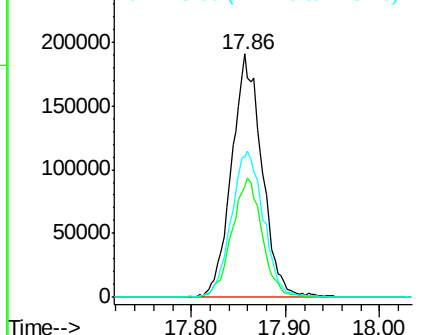
Tot Ion:	146	Resp:	428725
Ion Ratio	Lower	Upper	
146	100		
111	0.0	25.3	75.8#
148	0.0	32.1	96.3#

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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: 2.227 ppbv

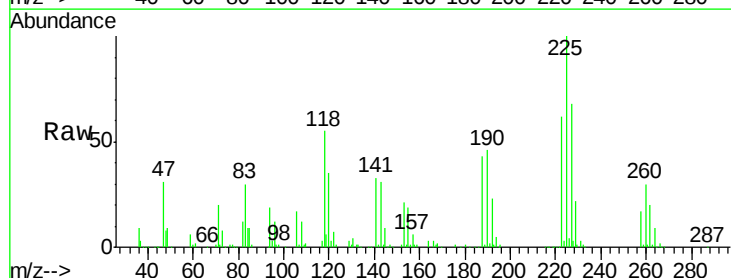
RT: 23.42 min Scan# 6417

Delta R.T. -0.00 min

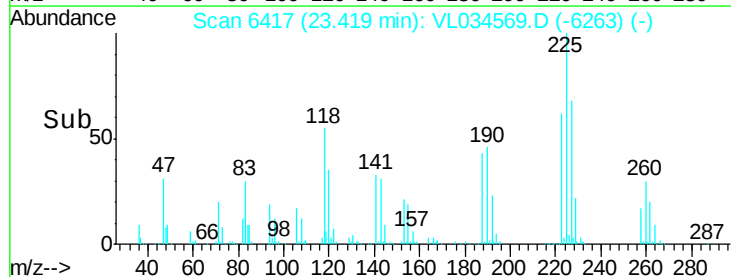
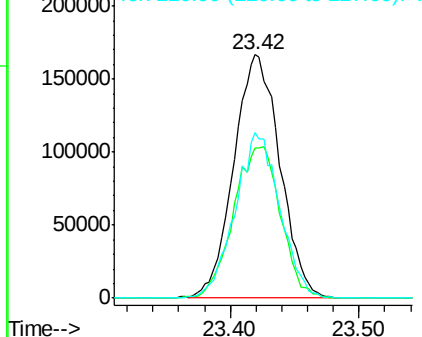
Lab File: VL034569.D

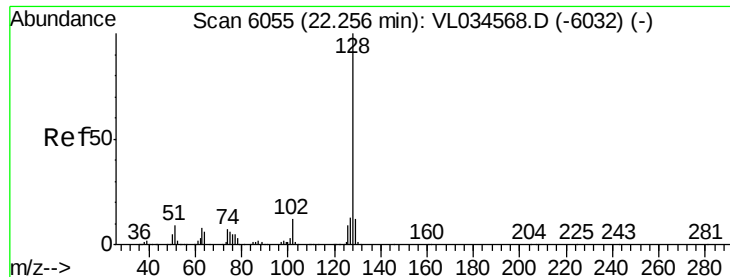
Acq: 30 Jan 2020 12:46

Tgt Ion:	225	Resp:	413489
Ion Ratio	Lower	Upper	
225	100		
223	63.6	51.0	76.6
227	66.0	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: 2.454 ppbv

RT: 22.26 min Scan# 6057

Delta R.T. 0.01 min

Lab File: VL034569.D

Acq: 30 Jan 2020 12:46

Instrument :

MSVOA_L

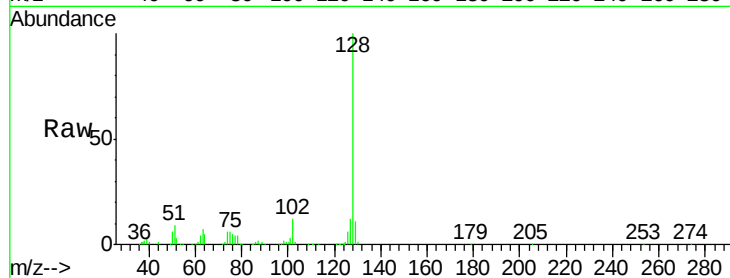
ClientSampleId :

VSTDIC002

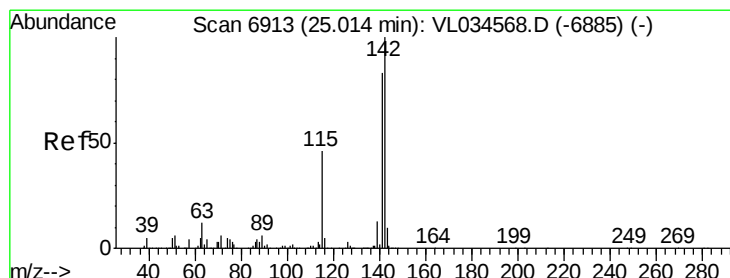
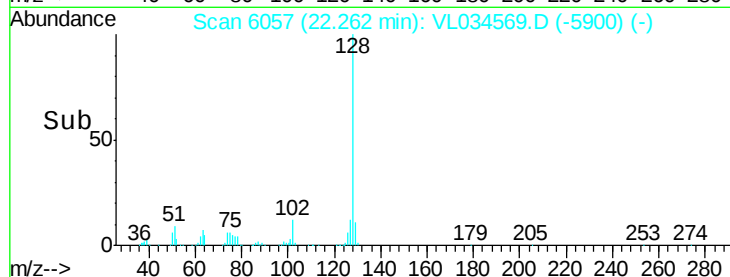
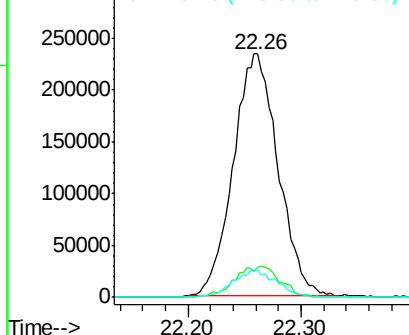
Tot Ion:	128	Resp:	642150
Ion Ratio		Lower	Upper
128	100		
127	12.2	10.6	15.8
129	11.5	8.7	13.1

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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: 3.028 ppbv

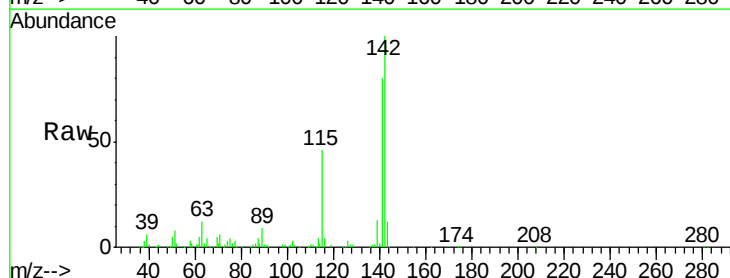
RT: 25.02 min Scan# 6914

Delta R.T. 0.00 min

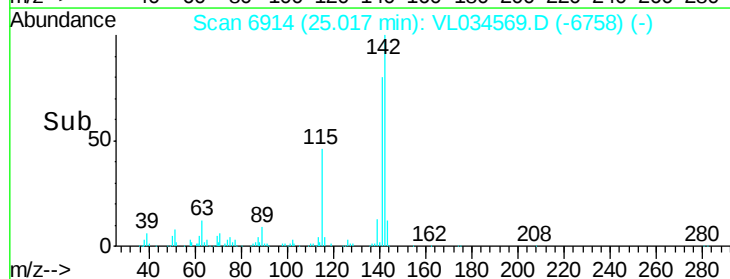
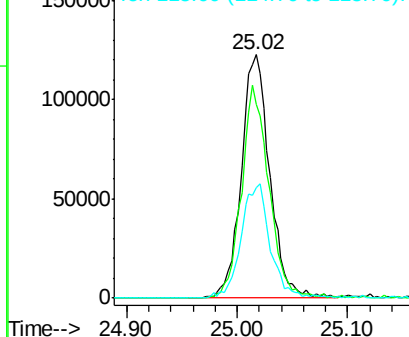
Lab File: VL034569.D

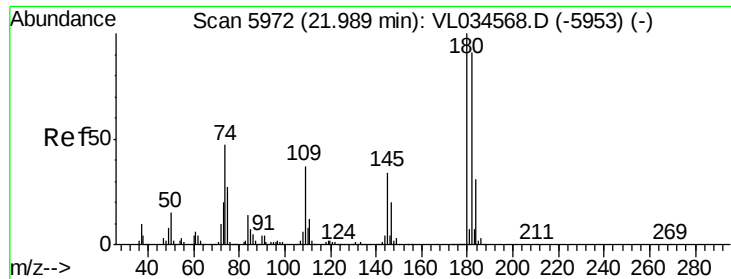
Acq: 30 Jan 2020 12:46

Tgt Ion:	142	Resp:	219543
Ion Ratio		Lower	Upper
142	100		
141	84.1	65.8	98.8
115	48.5	30.4	45.6#



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





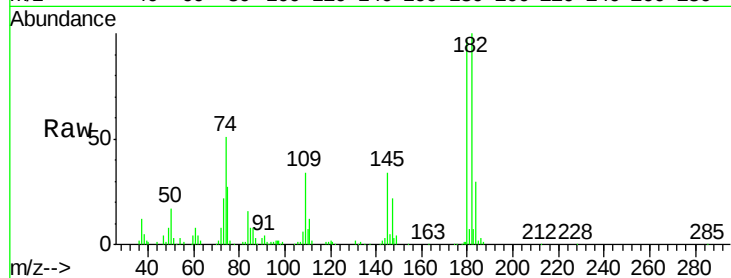
#81
 1,2,4-Trichlorobenzene
 Concen: 2.345 ppbv
 RT: 21.98 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL034569.D
 Acq: 30 Jan 2020 12:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	180	Resp:	399645
Ion Ratio	Lower	Upper	
180	100		
182	98.4	77.8	116.8
184	31.8	25.2	37.8

Manual Integrations
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Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

