

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034088.D
 Acq On : 5 Aug 2019 14:01
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:15 PM

Quant Time: Aug 05 14:36:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 13:52:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1093000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2209600	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2312451	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	1856152	9.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	154525	0.741 ppbv	92
3) Chlorodifluoromethane	2.99	51	133963	1.040 ppbv	98
4) Chloromethane	3.14	50	88762	1.194 ppbv	99
5) Vinyl Chloride	3.26	62	75086	1.020 ppbv #	88
6) Bromomethane	3.48	94	39379	0.715 ppbv	90
7) Chloroethane	3.57	64	28259	0.796 ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	173638	0.851 ppbv	93
9) Propene	3.01	41	79471	1.598 ppbv	92
10) Heptane	8.19	43	211593	1.536 ppbv	97
11) Trichlorofluoromethane	3.97	101	173685	0.831 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.51	101	124500	0.783 ppbv	95
13) Ethanol	3.62	45	25348m	1.257 ppbv	
14) Bromoethene	3.75	108	54104	0.607 ppbv	95
15) Acetone	3.87	43	175581	0.976 ppbv	98
16) 1,3-Butadiene	3.33	39	82663m	1.256 ppbv	
17) tert-Butyl alcohol	4.33	59	160688	1.230 ppbv	97
18) 1,1-Dichloroethene	4.31	96	57631	0.828 ppbv	80
19) Isopropyl Alcohol	3.99	45	137615	1.240 ppbv	94
20) Methylene Chloride	4.37	84	50570m	0.780 ppbv	
21) Allyl Chloride	4.44	41	116322	1.067 ppbv	96
22) trans-1,2-Dichloroethene	4.92	96	53105	0.749 ppbv #	81
23) Vinyl Acetate	5.11	43	280538	1.513 ppbv #	97
24) 1,1-Dichloroethane	5.05	63	167154	1.074 ppbv	99
25) Ethyl Acetate	5.73	43	340570	1.280 ppbv	99
26) Hexane	5.73	57	141345	1.173 ppbv	96
27) Carbon Disulfide	4.58	76	142033	0.792 ppbv	95
28) Methyl tert-Butyl Ether	5.08	73	235671	1.303 ppbv	98
29) Chloroform	5.80	83	195384	0.932 ppbv	91
30) Cyclohexane	7.19	84	108876m	1.133 ppbv	
31) cis-1,2-Dichloroethene	5.59	61	137955	1.167 ppbv	95
32) 1,1,1-Trichloroethane	6.57	97	176953	0.801 ppbv	98
34) 2-Butanone	5.29	43	229758	1.815 ppbv	100
35) Carbon Tetrachloride	7.08	117	181495	1.017 ppbv	96
36) Benzene	6.95	78	273023	1.296 ppbv	96
37) 1,2-Dichloroethane	6.36	62	146483	1.066 ppbv	98
38) Trichloroethene	7.91	130	98308m	1.382 ppbv	
39) 1,2-Dichloropropane	7.68	63	113934	1.495 ppbv	94
40) 1,4-Dioxane	7.93	88	46704m	1.600 ppbv	
41) Tetrahydrofuran	6.11	42	133047	1.961 ppbv	99
42) Bromodichloromethane	7.86	83	206477	1.192 ppbv	96
43) Methyl Methacrylate	8.08	69	107374	1.478 ppbv	92

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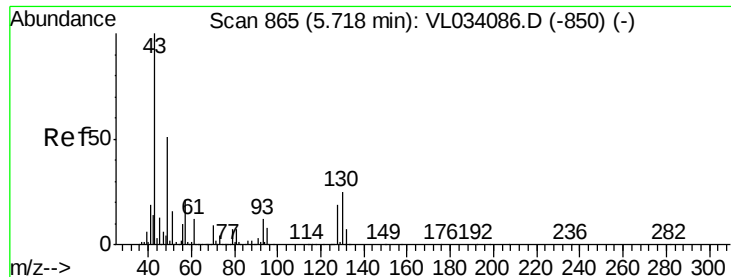
Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:15 PM

Quant Time: Aug 05 14:36:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 13:52:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	515932	1.641	ppbv	96
45) t-1,3-Dichloropropene	9.36	75	131000	1.459	ppbv	89
46) cis-1,3-Dichloropropene	8.78	75	158024	1.516	ppbv	96
47) 1,1,2-Trichloroethane	9.56	97	105364	1.284	ppbv	94
48) Dibromochloromethane	10.39	129	164076	1.182	ppbv	99
49) Bromoform	13.14	173	148760	1.237	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	351464	1.870	ppbv	98
51) 2-Hexanone	10.23	43	277614	1.916	ppbv #	97
52) Tetrachloroethene	11.32	164	94213	1.533	ppbv	98
53) Toluene	9.89	91	324118	1.548	ppbv	97
54) 1,2-Dibromoethane	10.70	107	159855	1.313	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	120095	1.178	ppbv #	1
57) Chlorobenzene	12.24	112	234466	1.242	ppbv #	95
58) Ethyl Benzene	12.80	91	449166	1.472	ppbv	94
59) m/p-Xylene	13.09	91	717897m	2.632	ppbv	
60) o-Xylene	13.79	91	362935	1.324	ppbv	97
61) Styrene	13.62	104	272406	1.519	ppbv	98
62) Isopropylbenzene	14.77	105	487932	1.356	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.78	83	254622	1.181	ppbv	99
64) n-propylbenzene	15.66	120	128765m	1.416	ppbv	
65) tert-Butylbenzene	16.85	119	431061	1.335	ppbv	98
66) Benzyl Chloride	17.09	91	222340	1.408	ppbv	100
67) sec-Butylbenzene	17.40	105	624781	1.350	ppbv	95
69) p-Isopropyltoluene	17.75	119	502296	1.333	ppbv	98
70) n-Butylbenzene	18.66	91	554449	1.349	ppbv	95
71) 2-Chlorotoluene	15.56	91	389775	1.464	ppbv	97
72) 4-Ethyltoluene	15.94	105	426917	1.390	ppbv	97
73) 1,3,5-Trimethylbenzene	16.10	105	418634	1.384	ppbv	87
74) 1,2,4-Trimethylbenzene	16.87	105	430888	1.288	ppbv	93
75) 1,3-Dichlorobenzene	17.10	146	235436	1.188	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	244434m	1.307	ppbv	
77) 1,2-Dichlorobenzene	17.93	146	227739	1.224	ppbv	97
78) Hexachloro-1,3-Butadiene	23.48	225	183171m	1.073	ppbv	
79) Naphthalene	22.33	128	446722m	1.491	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	115981	1.009	ppbv	99
81) 1,2,4-Trichlorobenzene	22.06	180	245000	1.322	ppbv	99

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



#1

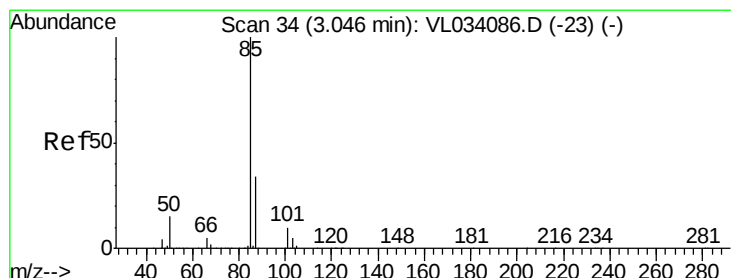
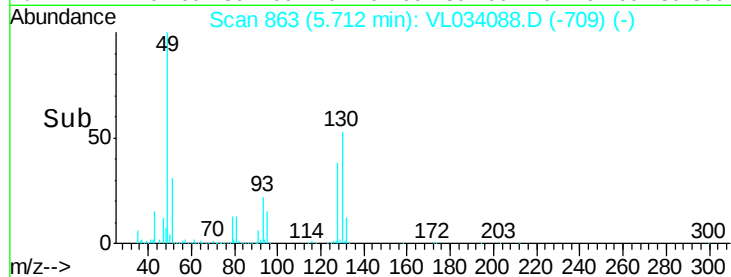
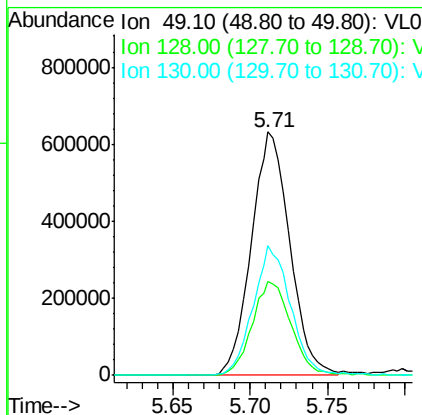
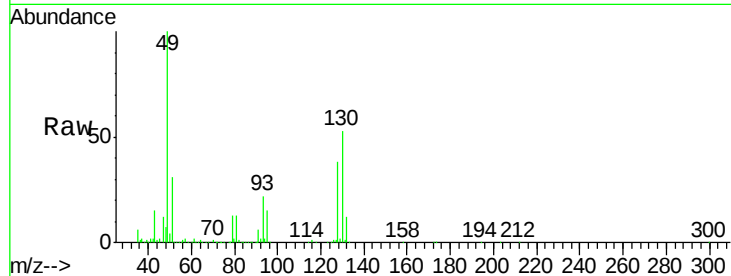
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.71 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
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Tot Ion	49	Resp	1093000
Ion	Ratio	Lower	Upper
49	100		
128	39.5	19.5	58.5
130	52.4	25.4	76.0

Manual Integrations
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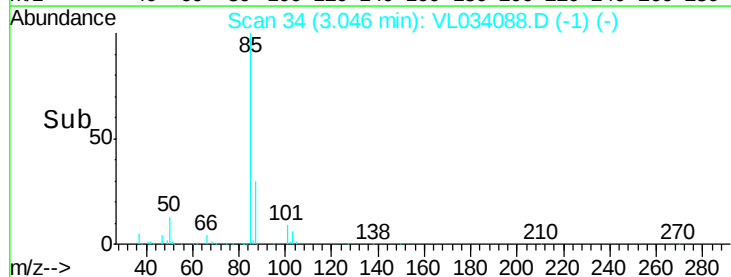
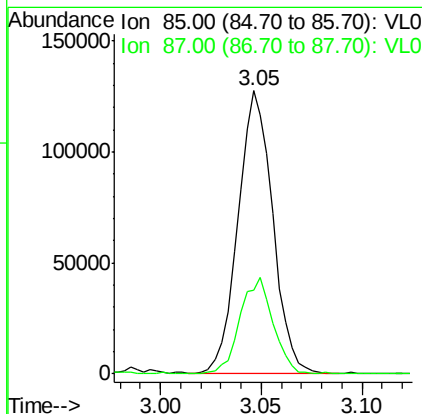
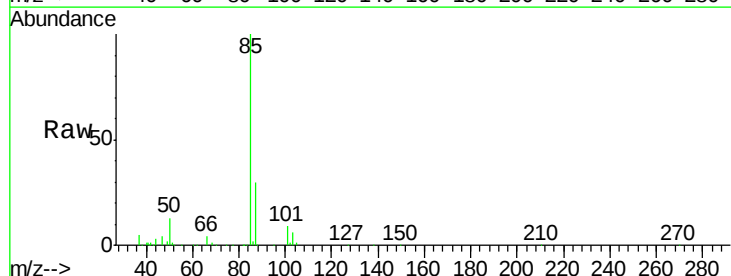
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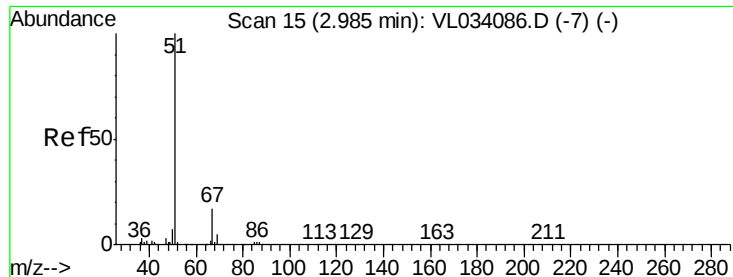


#2

Dichlorodifluoromethane
 Concen: 0.741 ppbv
 RT: 3.05 min Scan# 34
 Delta R.T. 0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	85	Resp	154525
Ion	Ratio	Lower	Upper
85	100		
87	29.5	27.1	40.7





#3

Chlorodifluoromethane

Concen: 1.040 ppbv

RT: 2.99 min Scan# 15

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tot Ion	51	Resp	133963
Ion Ratio	Lower	Upper	
51	100		
67	15.6	13.3	19.9

Instrument :

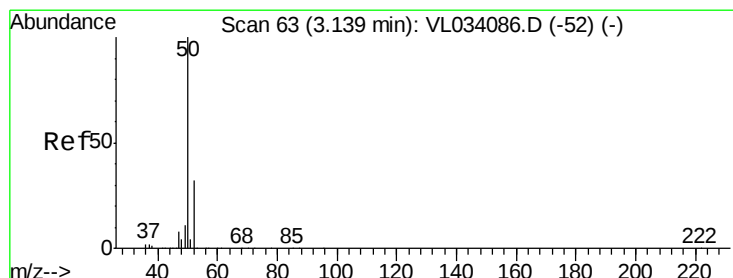
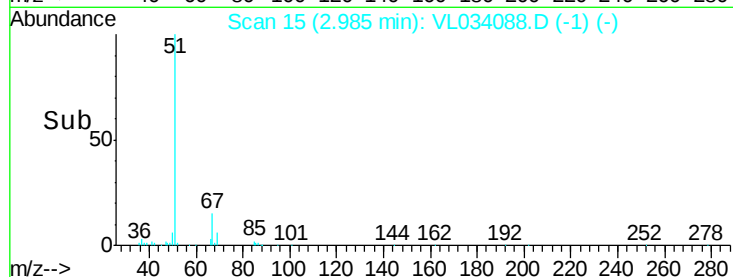
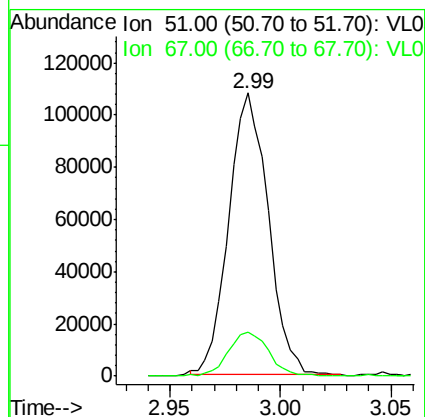
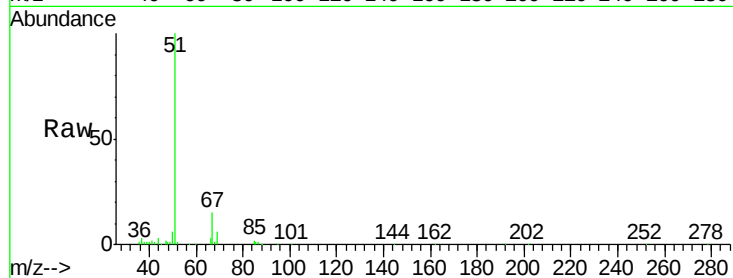
MSVOA_L

ClientSampleId :

VSTDIC001

Manual Integrations
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#4

Chloromethane

Concen: 1.194 ppbv

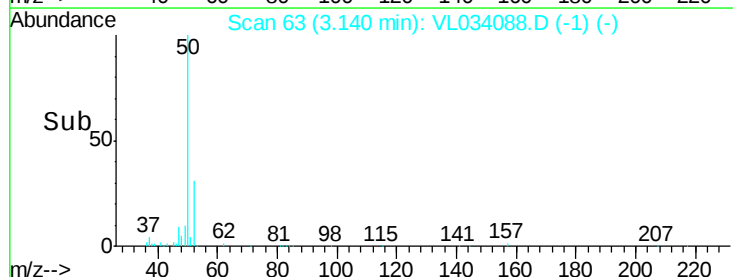
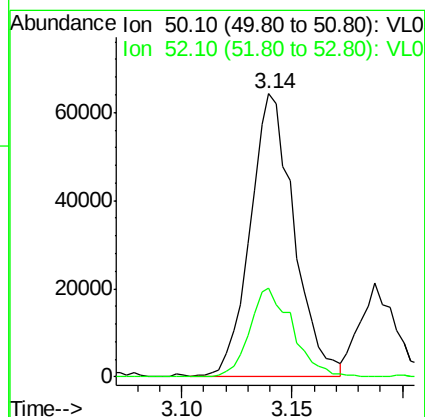
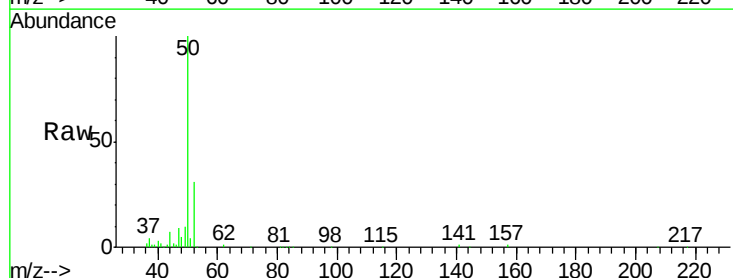
RT: 3.14 min Scan# 63

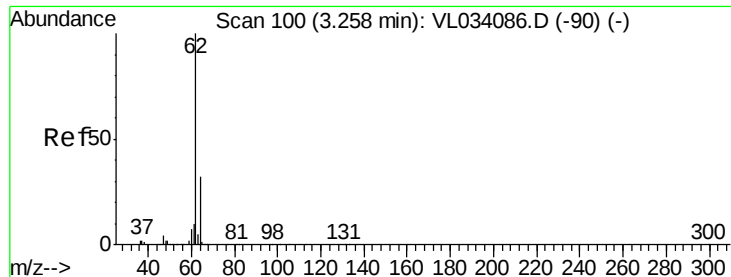
Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion	50	Resp	88762
Ion Ratio	Lower	Upper	
50	100		
52	31.3	25.7	38.5





#5

Vinyl Chloride

Concen: 1.020 ppbv

RT: 3.26 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 75086

Ion Ratio Lower Upper

62 100

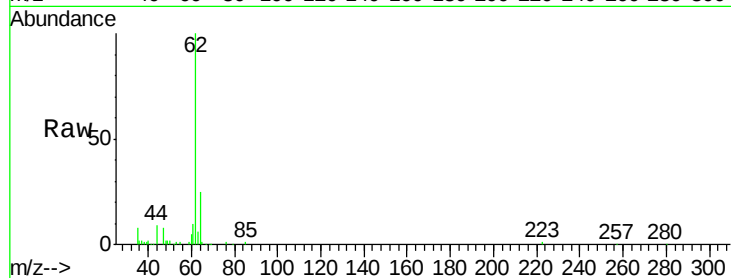
64 25.4 25.8 38.6#

Manual Integrations

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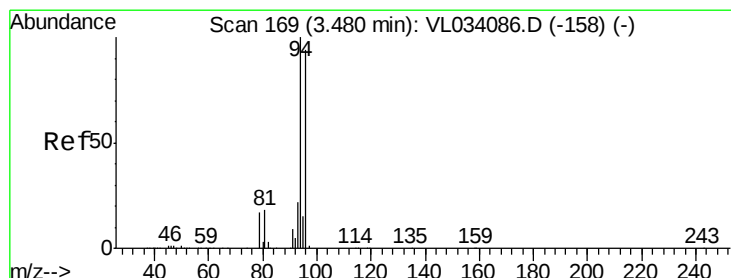
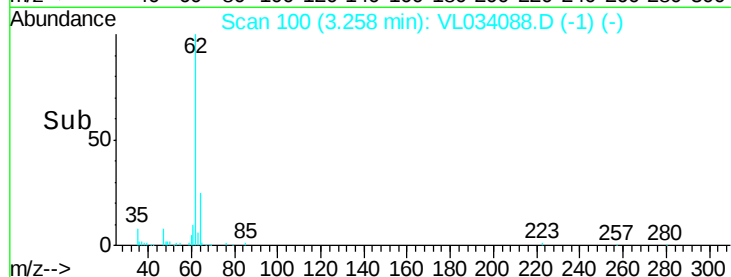
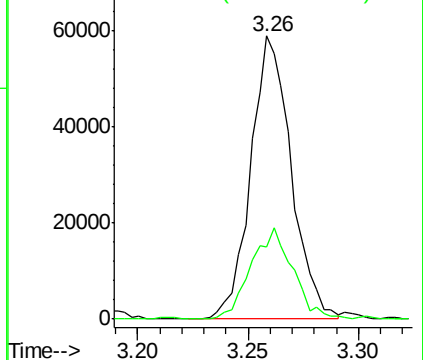
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.715 ppbv

RT: 3.48 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL034088.D

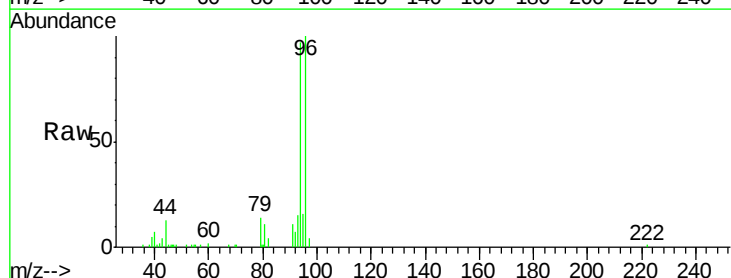
Acq: 5 Aug 2019 14:01

Tgt Ion: 94 Resp: 39379

Ion Ratio Lower Upper

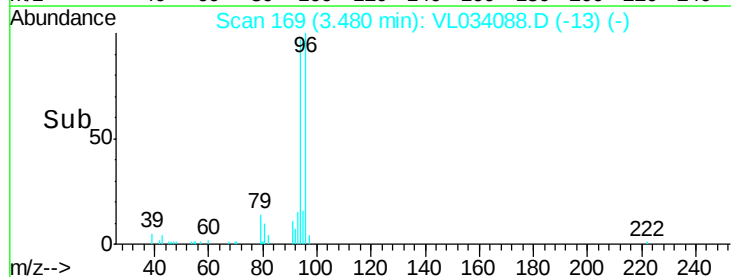
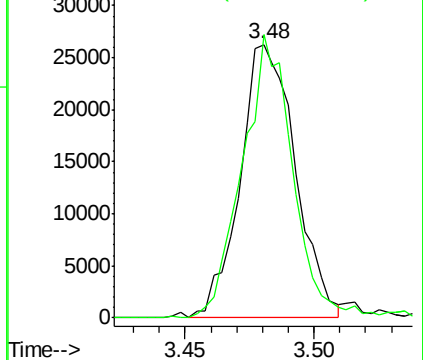
94 100

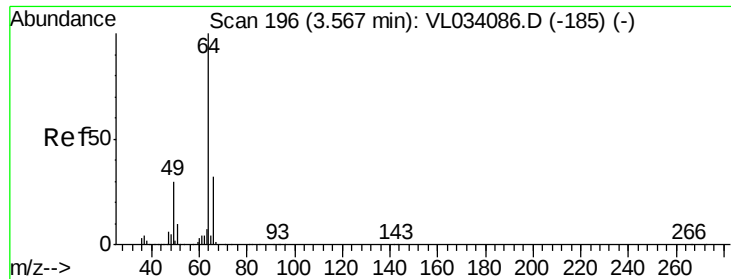
96 103.4 75.3 112.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.796 ppbv

RT: 3.57 min Scan# 196

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 28259

Ion Ratio Lower Upper

64 100

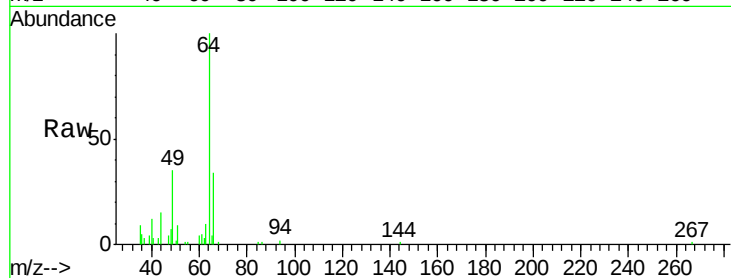
66 33.8 25.2 37.8

Manual Integrations

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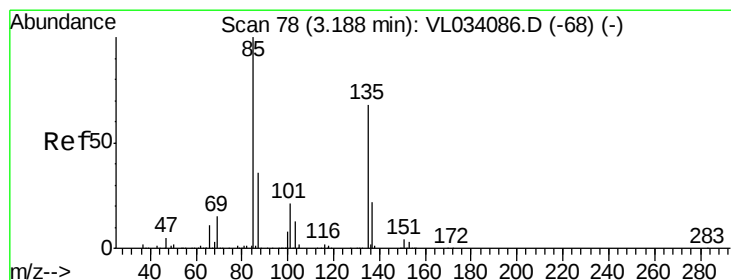
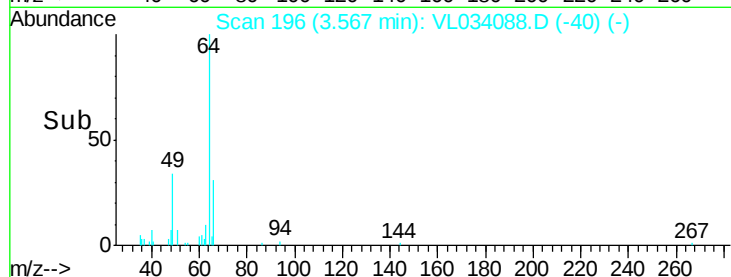
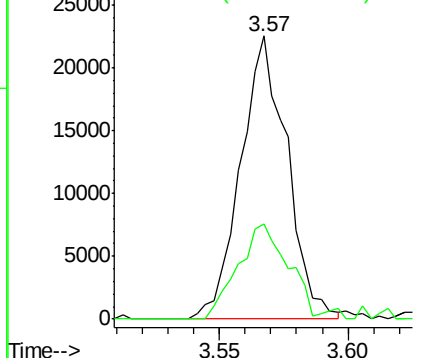
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.851 ppbv

RT: 3.19 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034088.D

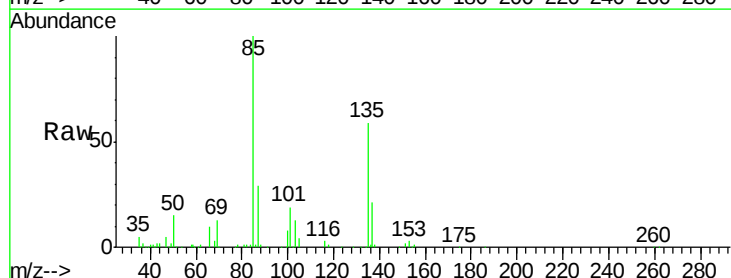
Acq: 5 Aug 2019 14:01

Tgt Ion: 85 Resp: 173638

Ion Ratio Lower Upper

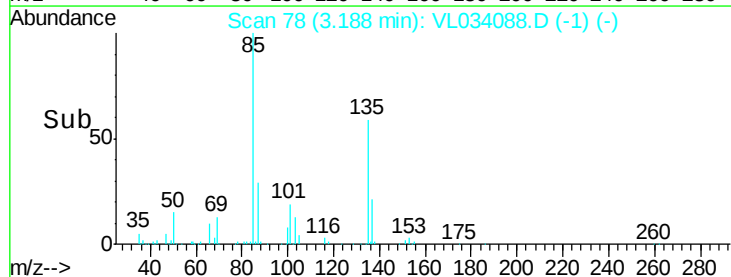
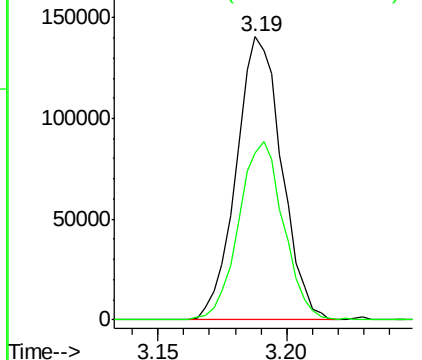
85 100

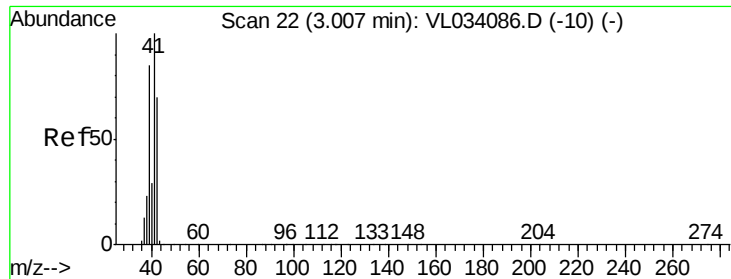
135 61.9 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.598 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 79471

Ion Ratio Lower Upper

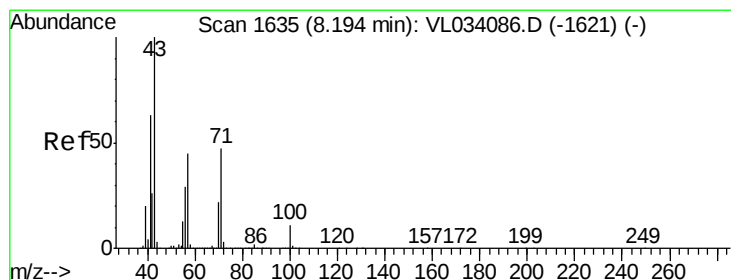
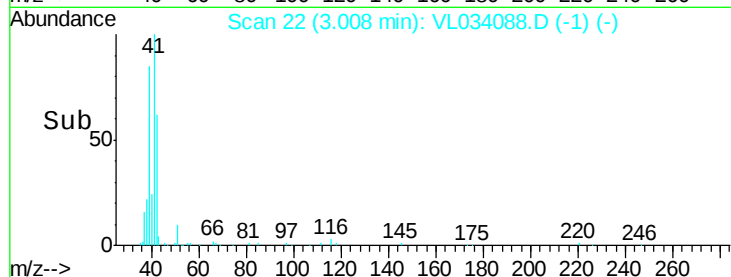
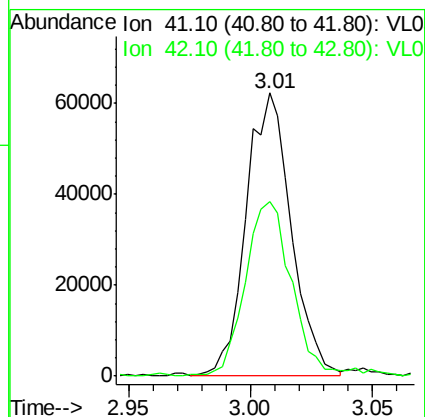
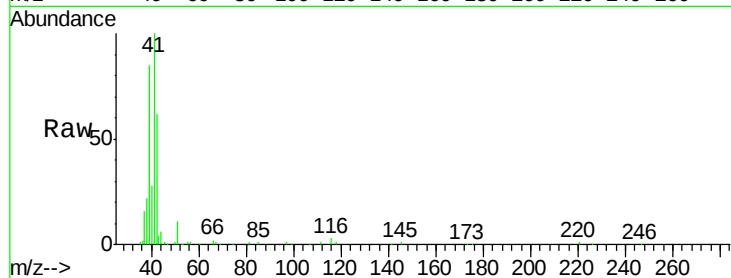
41 100

42 63.3 55.8 83.6

Manual Integrations
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#10

Heptane

Concen: 1.536 ppbv

RT: 8.19 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VL034088.D

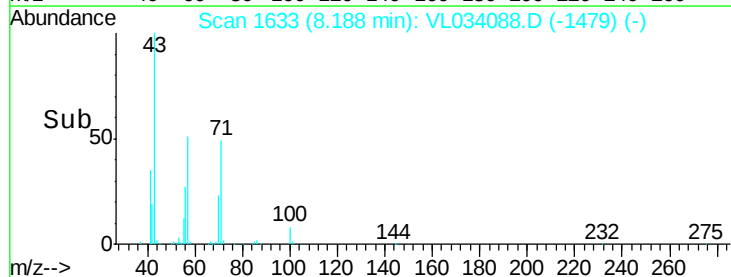
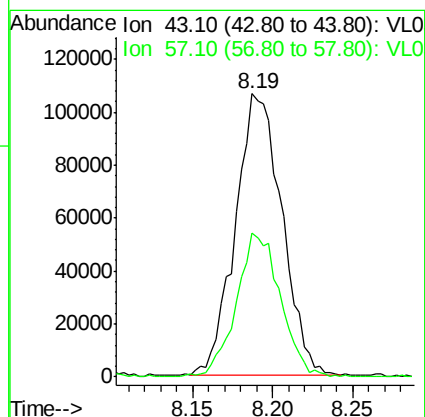
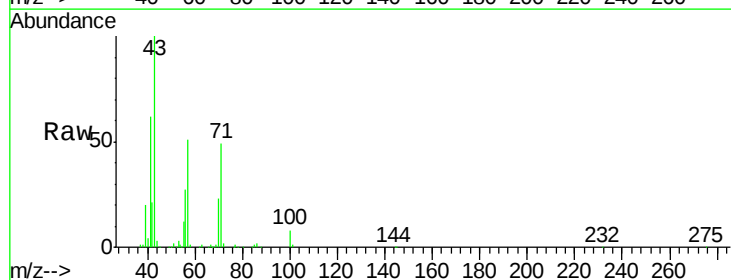
Acq: 5 Aug 2019 14:01

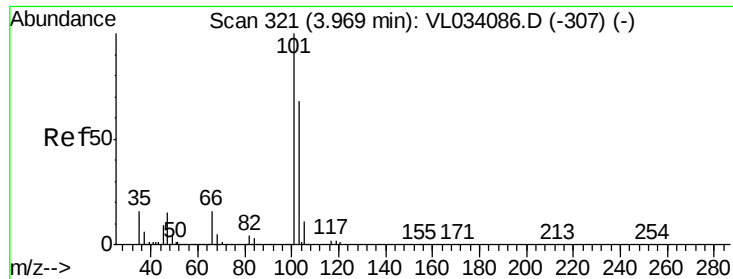
Tgt Ion: 43 Resp: 211593

Ion Ratio Lower Upper

43 100

57 48.3 37.2 55.8





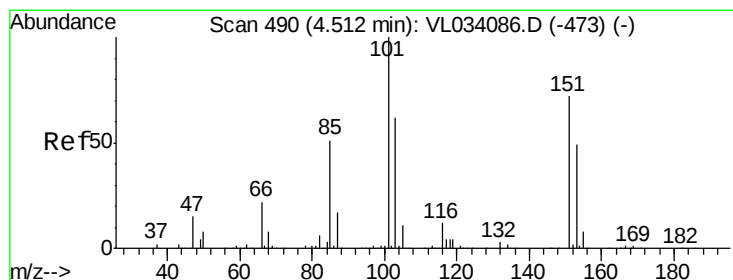
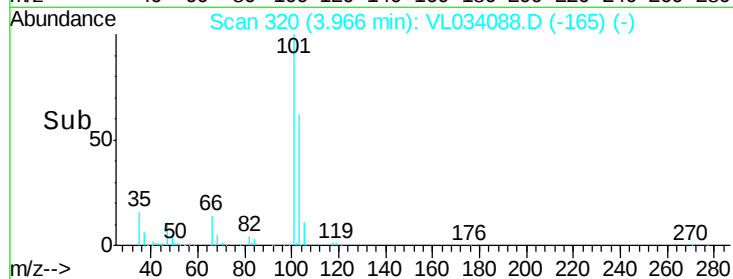
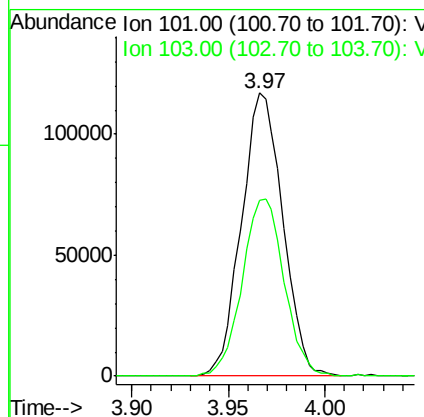
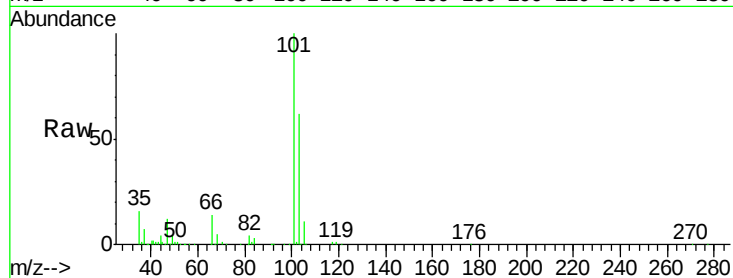
#11
 Trichlorofluoromethane
 Concen: 0.831 ppbv
 RT: 3.97 min Scan# 320
 Delta R.T. -0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.2	54.3	81.5

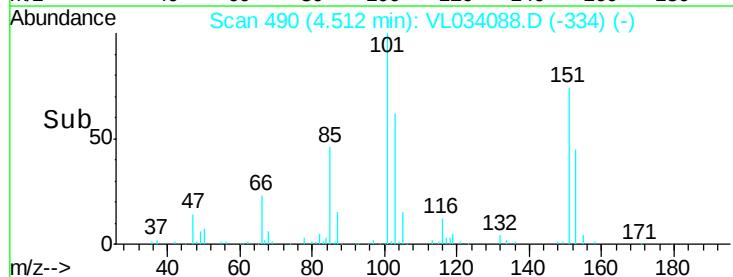
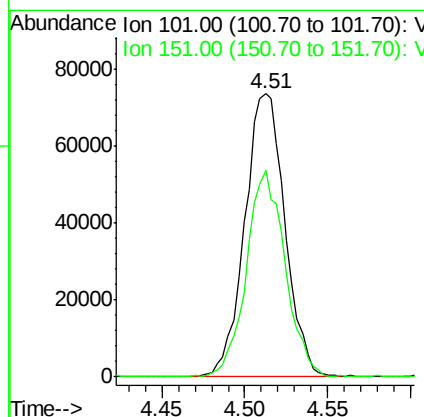
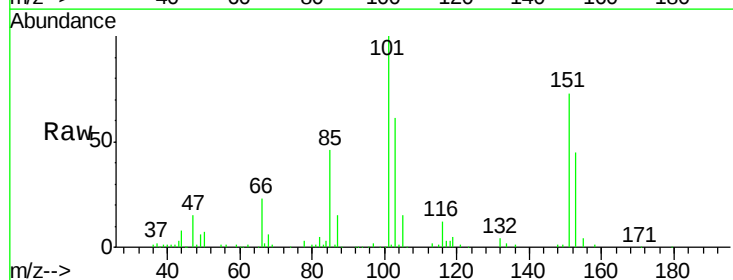
Manual Integrations
 APPROVED

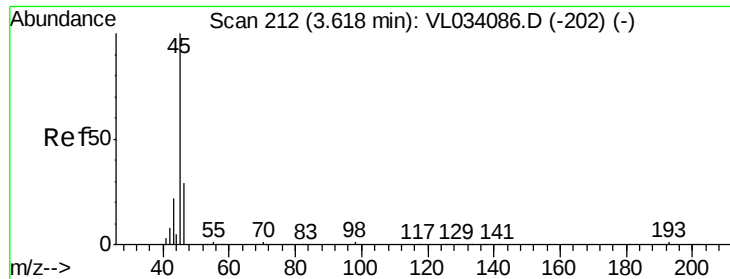
MMDadoda
 8/8/2019 12:41:15 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.783 ppbv
 RT: 4.51 min Scan# 490
 Delta R.T. 0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Lower	Upper
101	100		
151	70.2	59.4	89.0





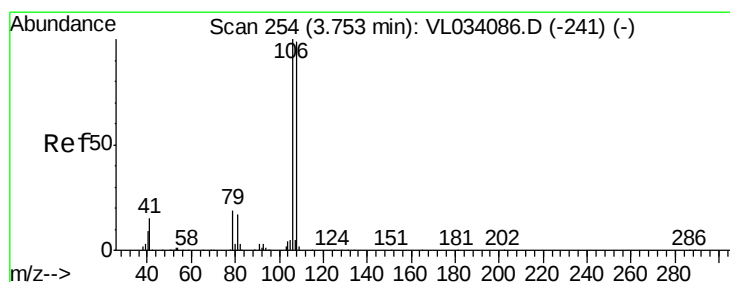
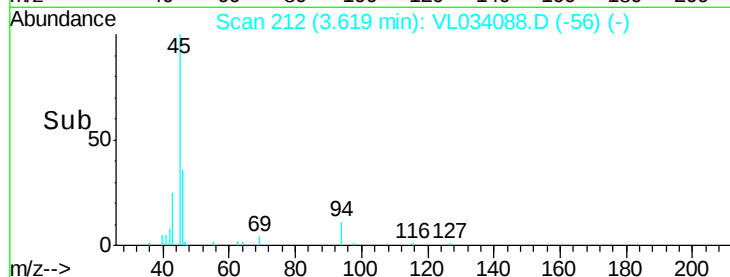
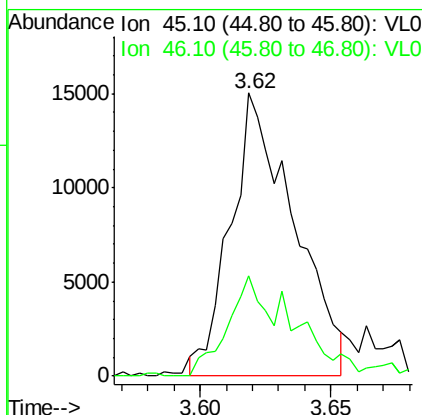
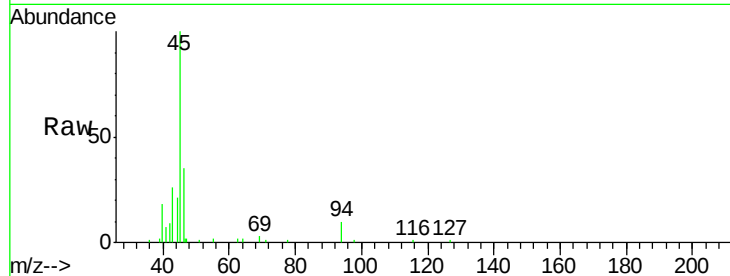
#13
Ethanol
Concen: 1.257 ppbv m
RT: 3.62 min Scan# 212
Delta R.T. 0.00 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	45	46	Ratio	Lower	Upper
25348	100	38.5		14.9	59.5

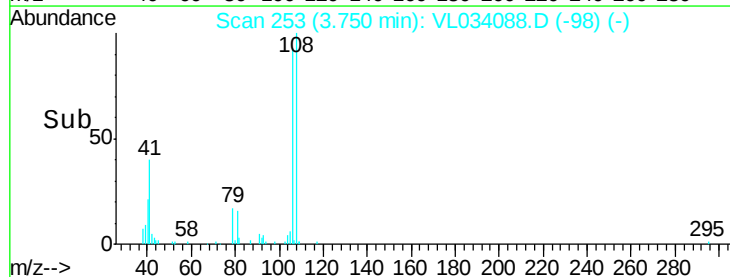
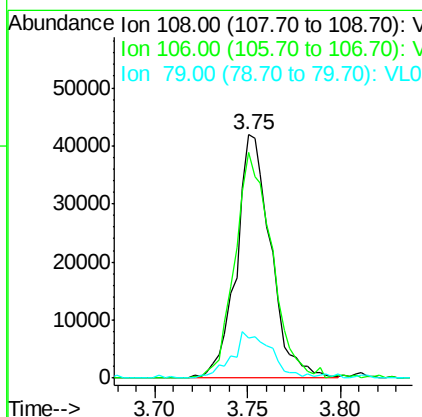
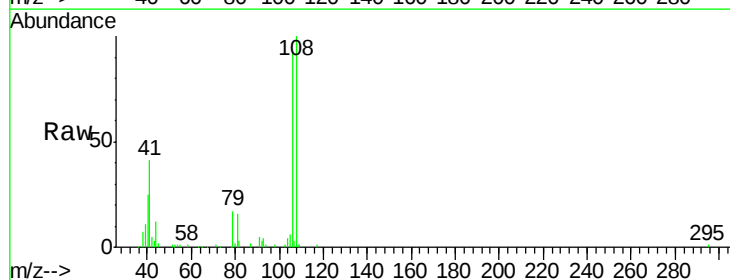
Manual Integrations
APPROVED

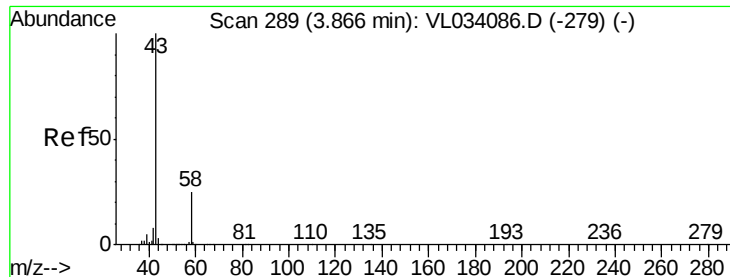
MMDadoda
8/8/2019 12:41:15 PM



#14
Bromoethene
Concen: 0.607 ppbv
RT: 3.75 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Tgt Ion	108	106	79	Ratio	Lower	Upper
54104	100	100.8	22.8		85.0	127.6
					15.8	23.8





#15

Acetone

Concen: 0.976 ppbv

RT: 3.87 min Scan# 291

Delta R.T. 0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 175581

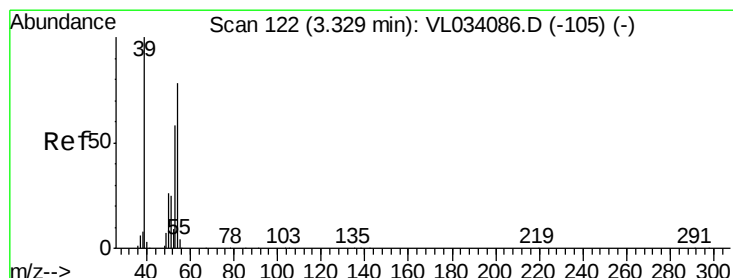
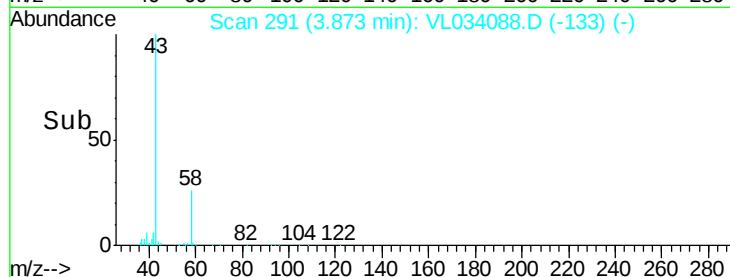
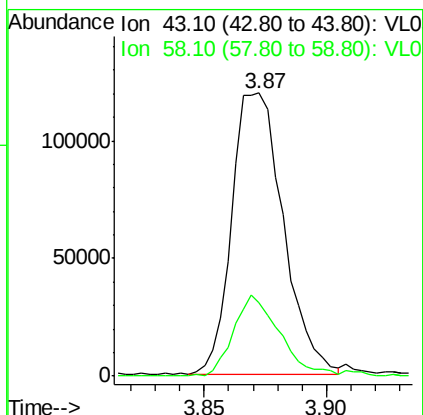
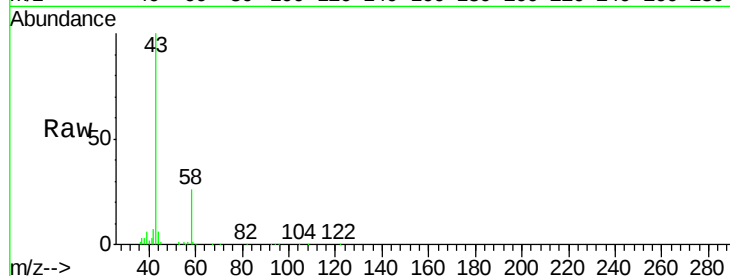
Ion Ratio Lower Upper

43 100

58 26.6 20.6 30.8

Manual Integrations
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#16

1,3-Butadiene

Concen: 1.256 ppbv m

RT: 3.33 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL034088.D

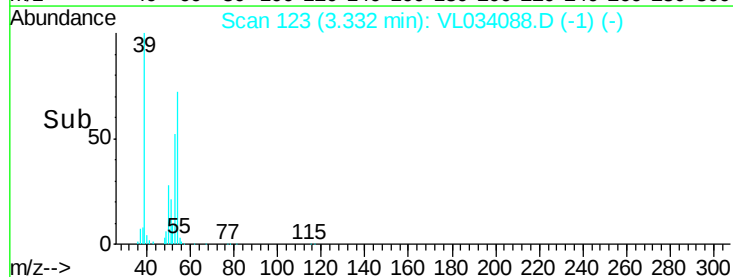
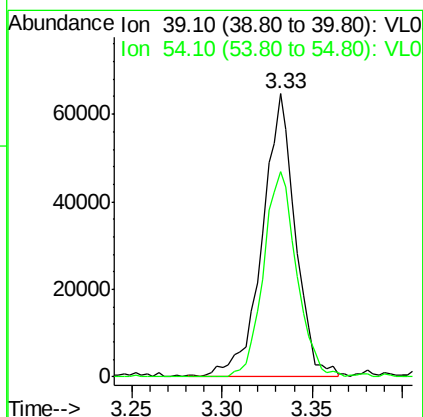
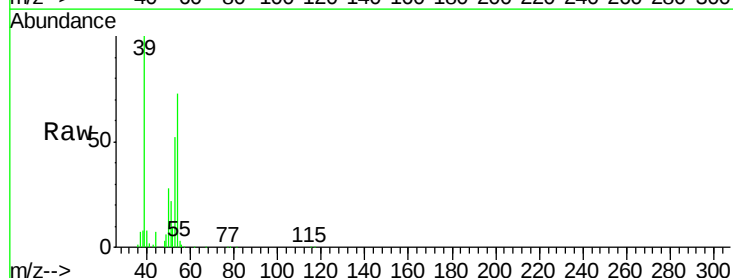
Acq: 5 Aug 2019 14:01

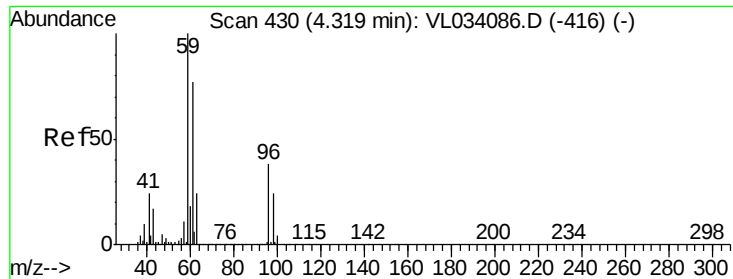
Tgt Ion: 39 Resp: 82663

Ion Ratio Lower Upper

39 100

54 73.6 62.7 94.1





#17

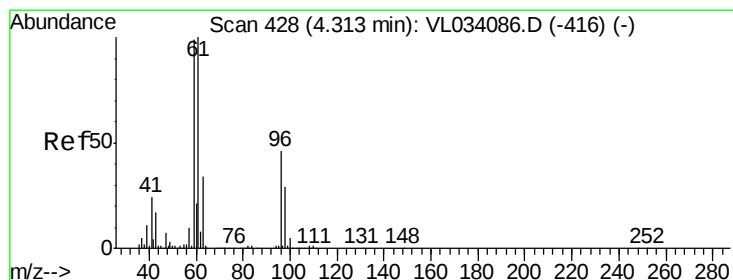
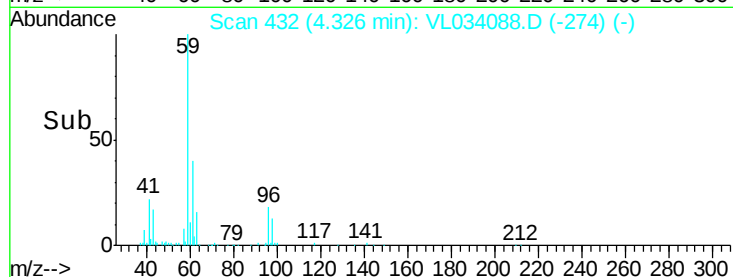
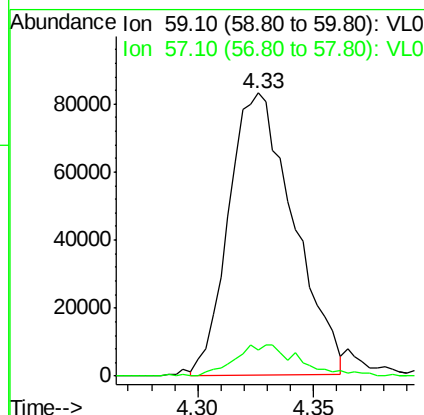
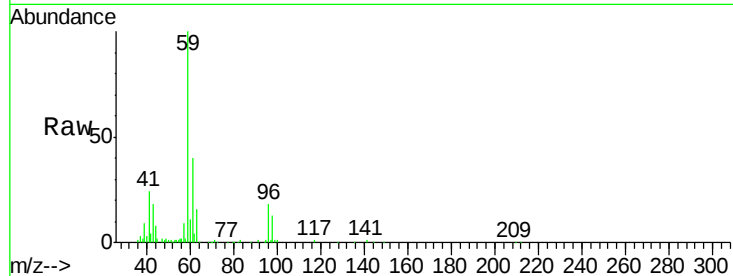
tert-Butyl alcohol
 Concen: 1.230 ppbv
 RT: 4.33 min Scan# 432
 Delta R.T. 0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	59	Resp	160688
Ion Ratio	Lower	Upper	
59	100		
57	11.5	8.4	12.6

Manual Integrations
 APPROVED

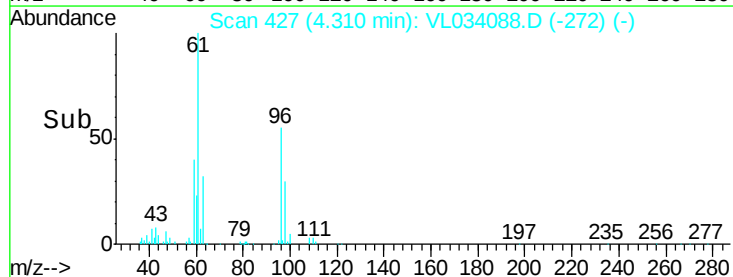
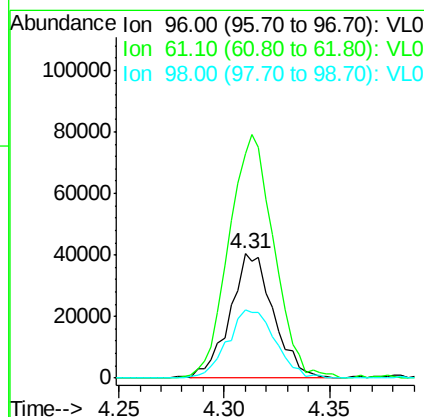
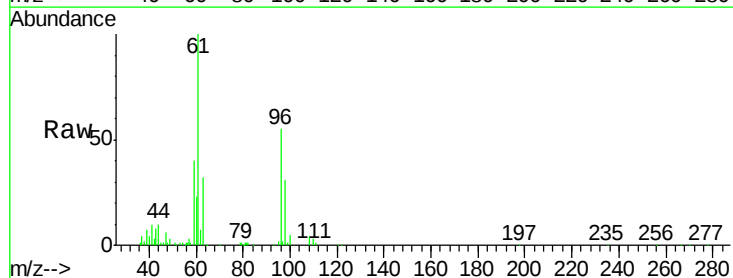
MMDadoda
 8/8/2019 12:41:15 PM

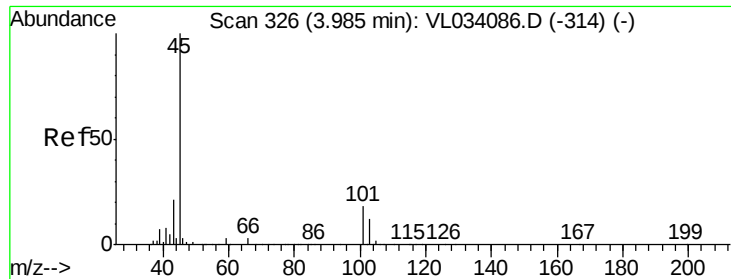


#18

1,1-Dichloroethene
 Concen: 0.828 ppbv
 RT: 4.31 min Scan# 427
 Delta R.T. -0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	96	Resp	57631
Ion Ratio	Lower	Upper	
96	100		
61	179.9	173.1	259.7
98	55.2	50.3	75.5





#19

Isopropyl Alcohol

Concen: 1.240 ppbv

RT: 3.99 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 137615

Ion Ratio Lower Upper

45 100

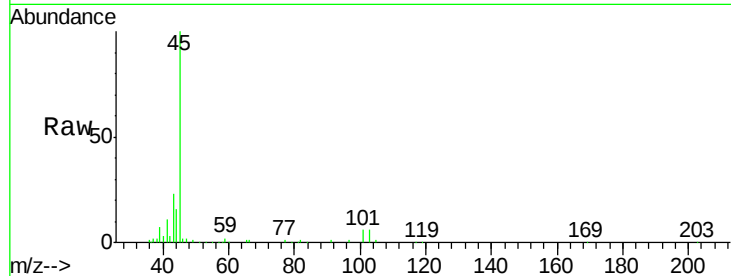
58 34.2 24.6 37.0

Manual Integrations

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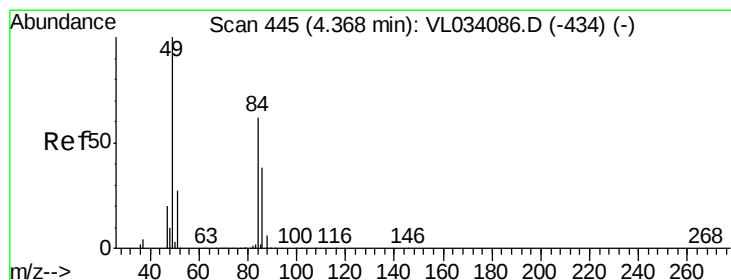
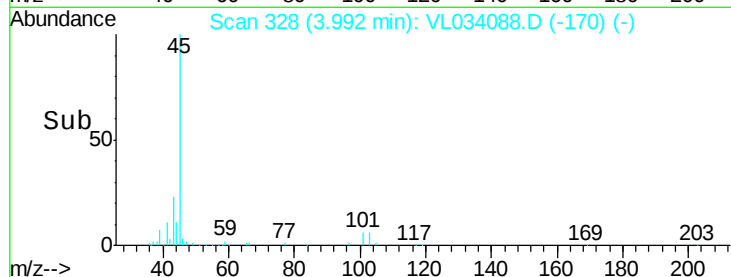
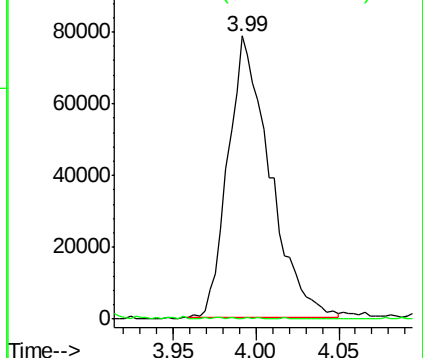
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.780 ppbv m

RT: 4.37 min Scan# 446

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion: 84 Resp: 50570

Ion Ratio Lower Upper

84 100

49 169.6 129.7 194.5

51 44.1 35.8 53.8

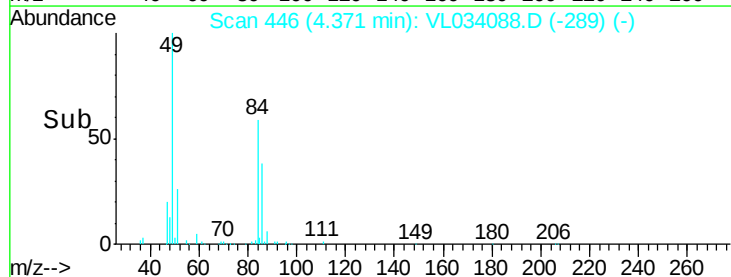
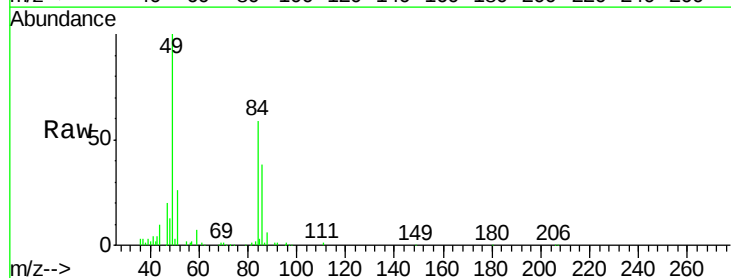
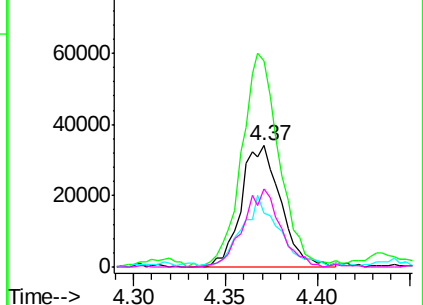
86 64.4 49.8 74.8

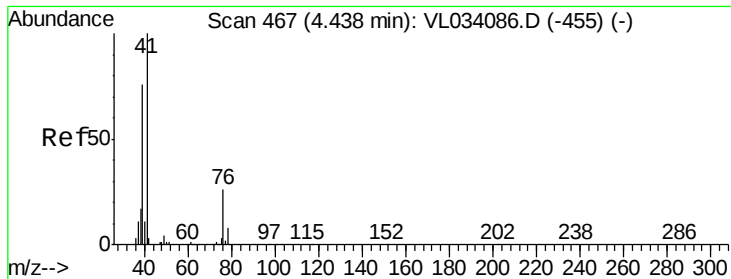
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 1.067 ppbv

RT: 4.44 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

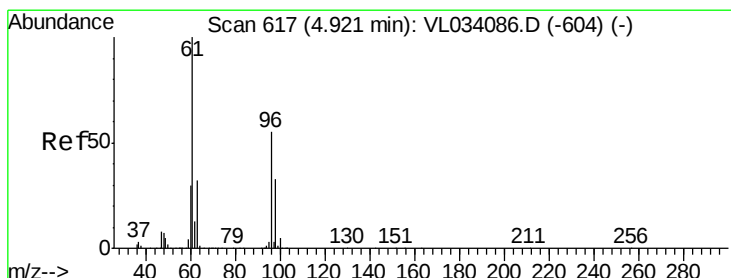
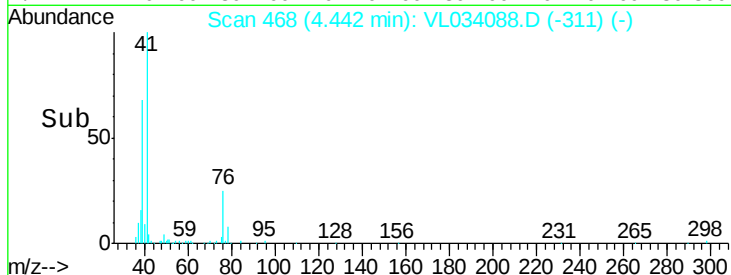
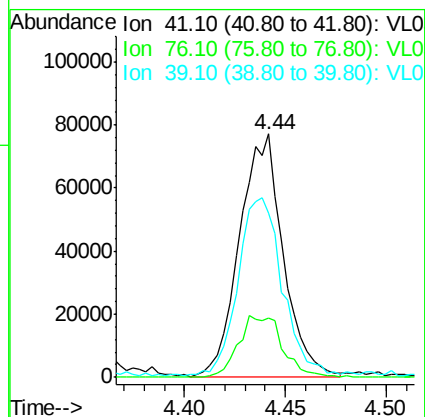
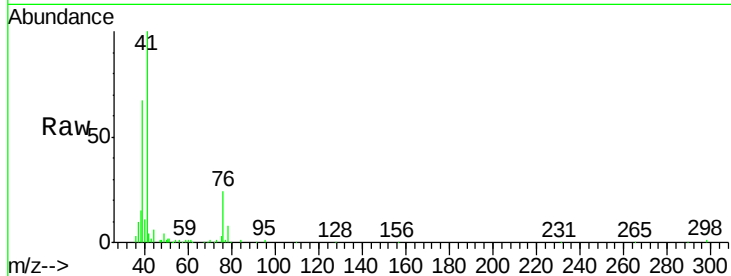
ClientSampleId :

VSTDIC001

Tot Ion:	41	Resp:	116322
Ion Ratio		Lower	Upper
41	100		
76	25.6	20.8	31.2
39	80.7	61.3	91.9

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 0.749 ppbv

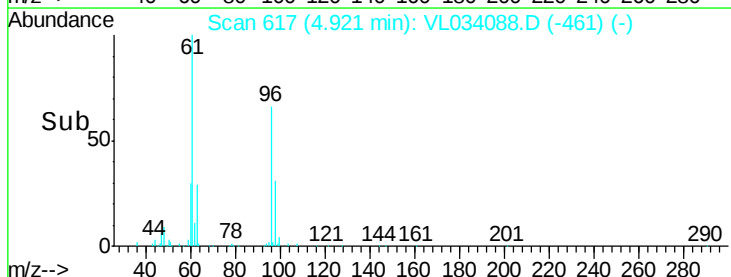
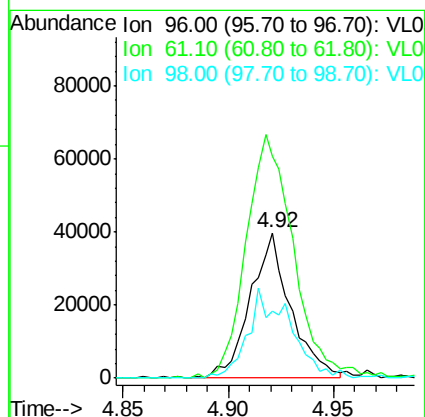
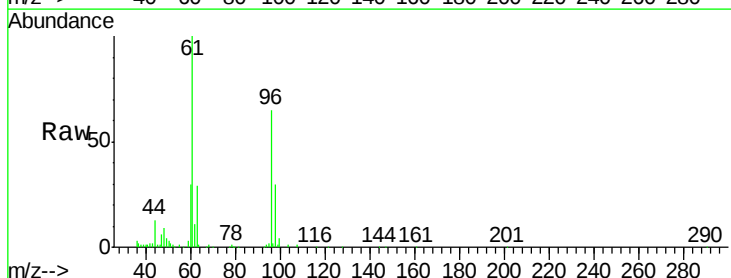
RT: 4.92 min Scan# 617

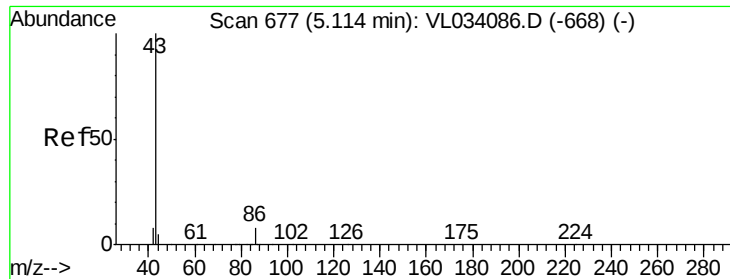
Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:	96	Resp:	53105
Ion Ratio		Lower	Upper
96	100		
61	152.9	144.2	216.2
98	46.3	48.0	72.0#





#23

Vinyl Acetate

Concen: 1.513 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

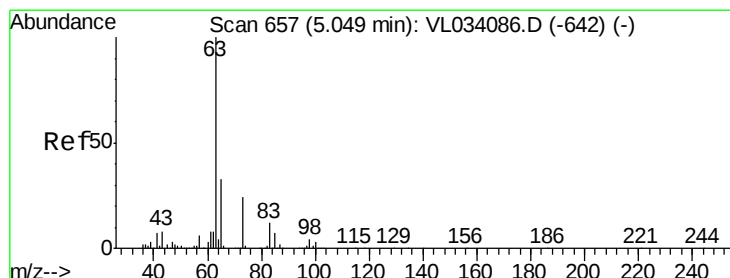
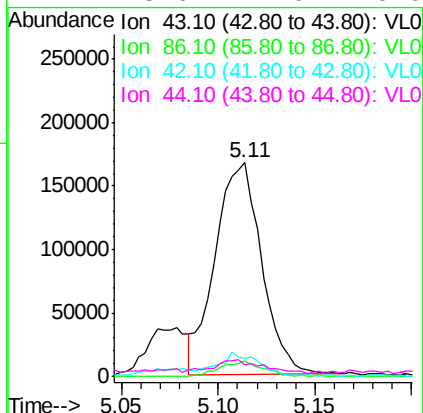
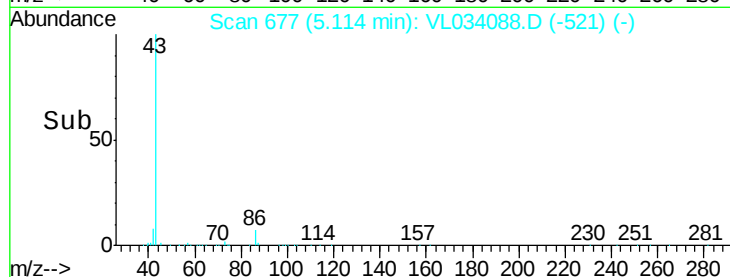
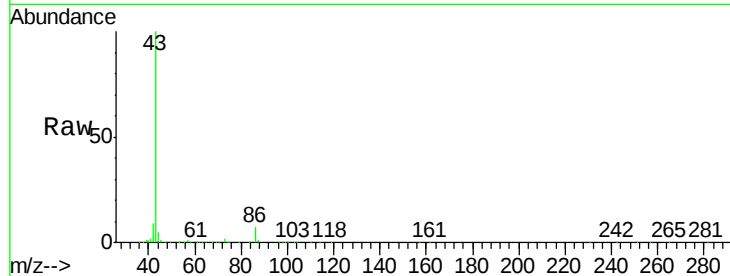
ClientSampleID :

VSTDIC001

Tot Ion	43	Resp	280538
Ion Ratio	Lower	Upper	
43	100		
86	7.1	5.4	8.0
42	8.7	7.9	11.9
44	3.6	4.0	6.0

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 1.074 ppbv

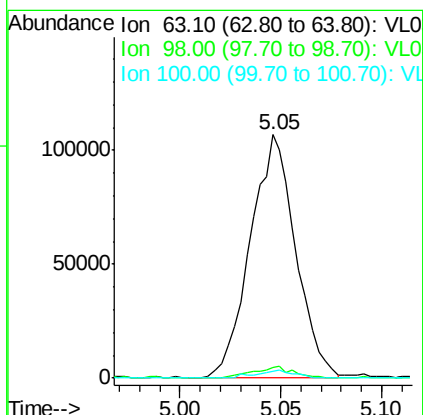
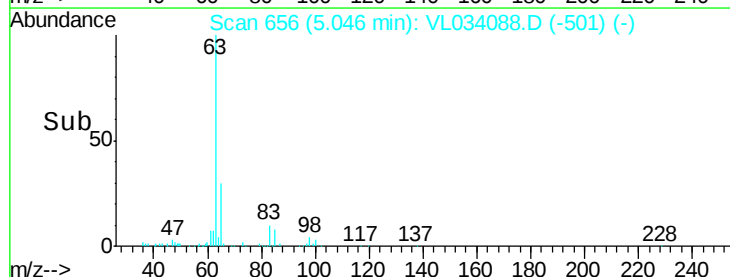
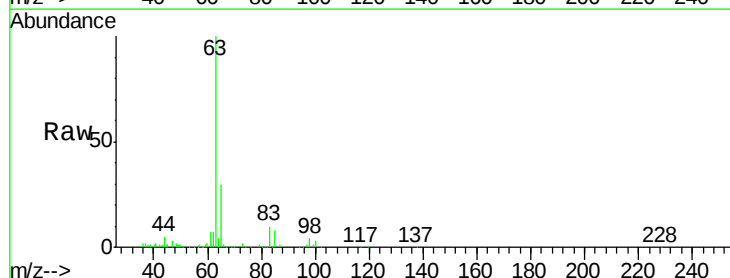
RT: 5.05 min Scan# 656

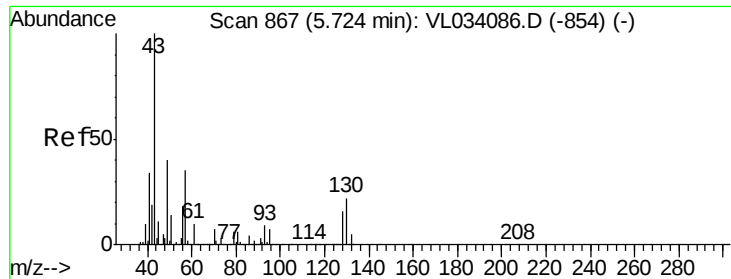
Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion	63	Resp	167154
Ion Ratio	Lower	Upper	
63	100		
98	4.3	2.0	6.0
100	2.5	1.3	3.8





#25

Ethyl Acetate

Concen: 1.280 ppbv

RT: 5.73 min Scan# 868

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

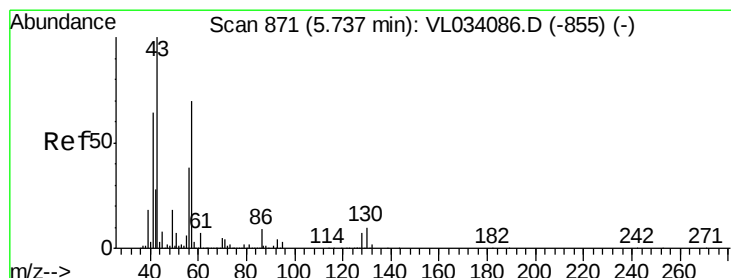
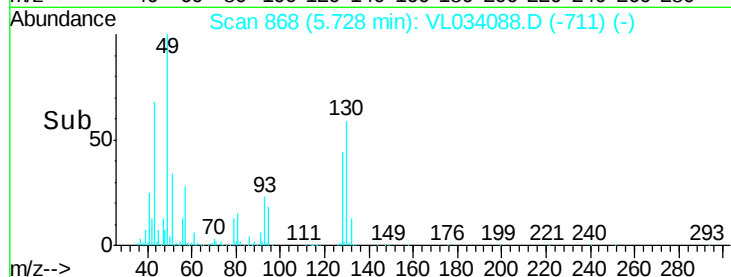
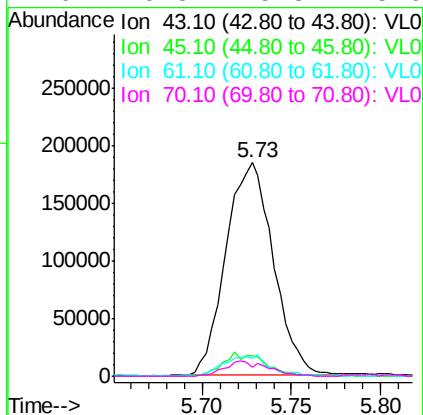
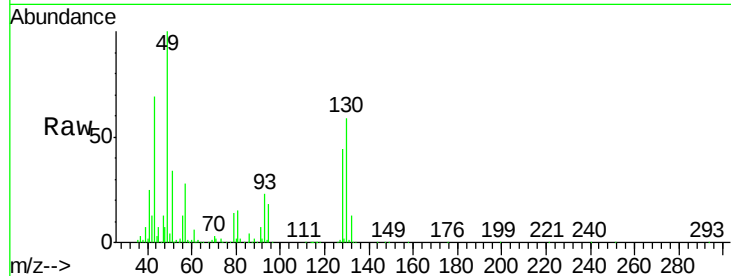
ClientSampleId :

VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.4	12.6	
61	9.8	7.3	10.9	
70	6.8	5.8	8.6	

Manual Integrations
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#26

Hexane

Concen: 1.173 ppbv

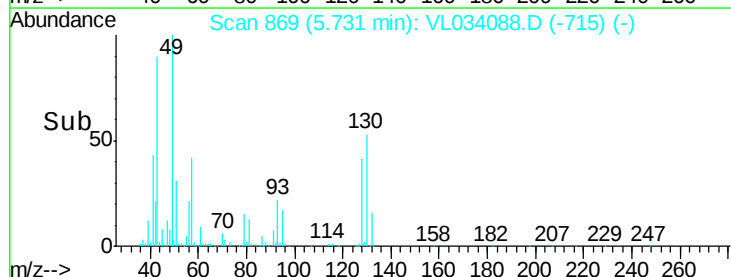
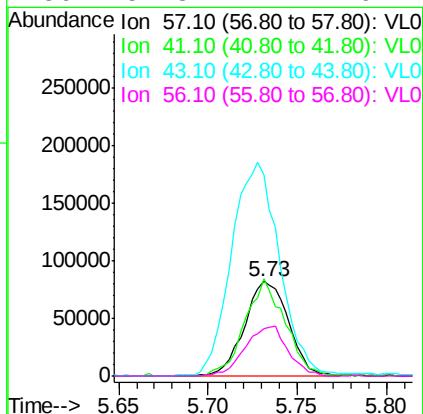
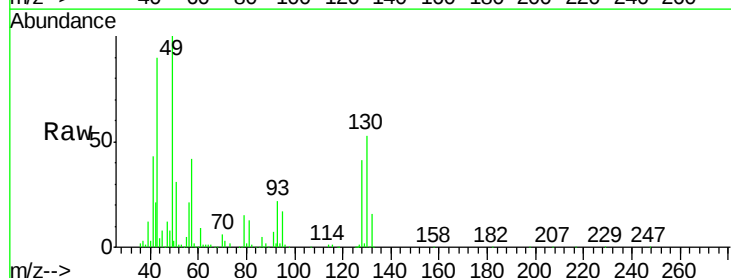
RT: 5.73 min Scan# 869

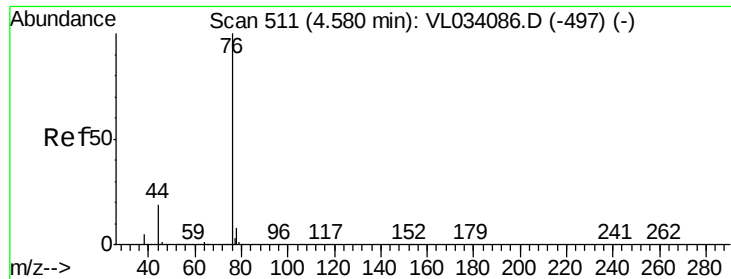
Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	94.0	75.7	113.5	
43	247.6	189.8	284.8	
56	51.3	42.7	64.1	





#27

Carbon Disulfide

Concen: 0.792 ppbv

RT: 4.58 min Scan# 511

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

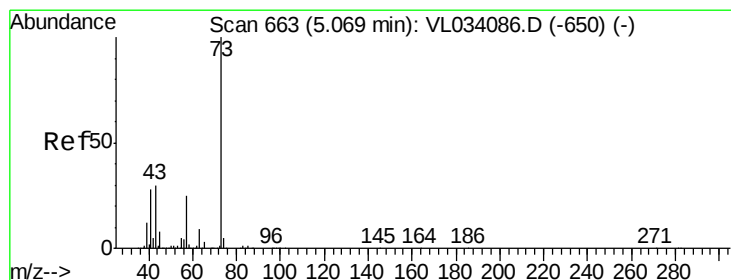
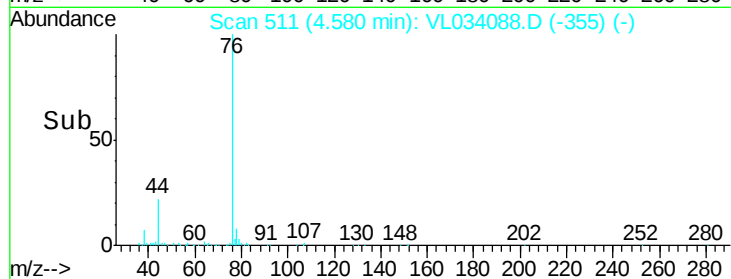
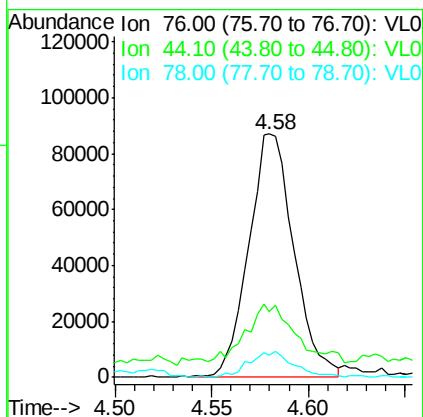
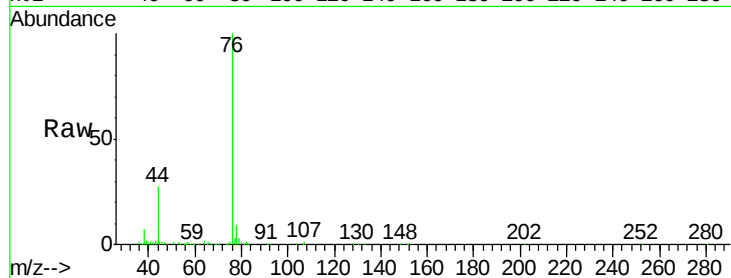
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	142033
Ion	Ratio	Lower	Upper
76	100		
44	24.6	17.8	26.6
78	11.3	7.7	11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 1.303 ppbv

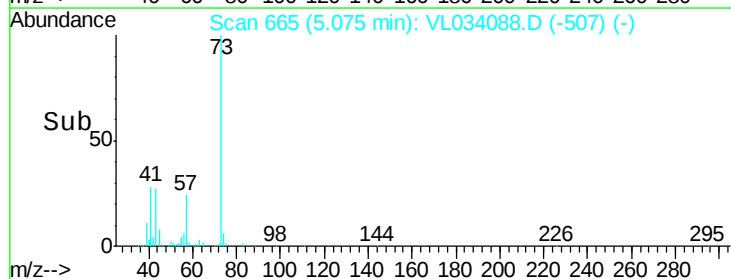
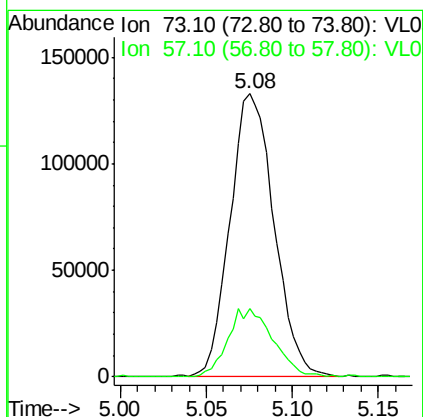
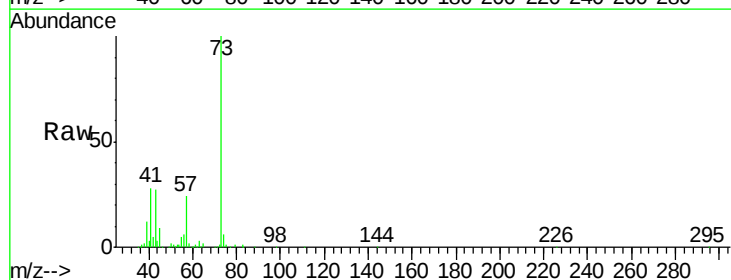
RT: 5.08 min Scan# 665

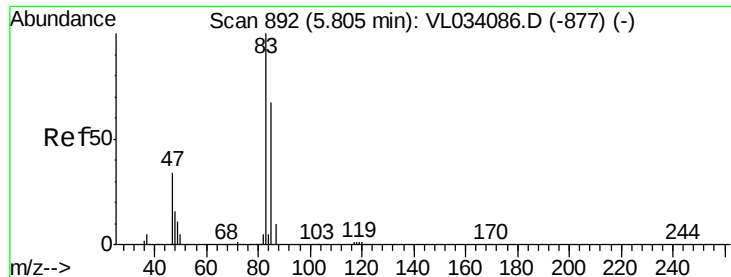
Delta R.T. 0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:	73	Resp:	235671
Ion	Ratio	Lower	Upper
73	100		
57	25.2	19.5	29.3





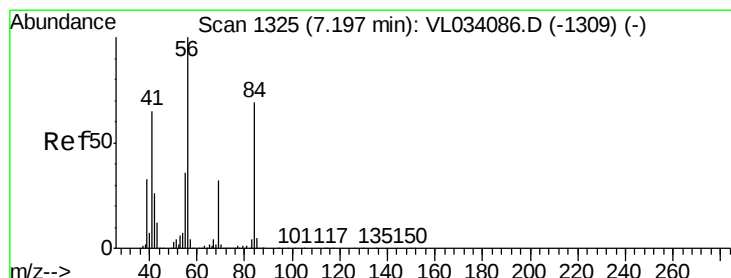
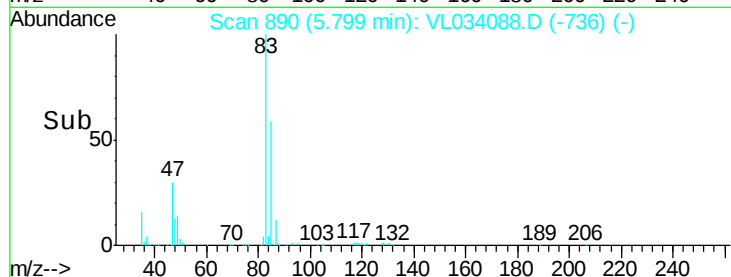
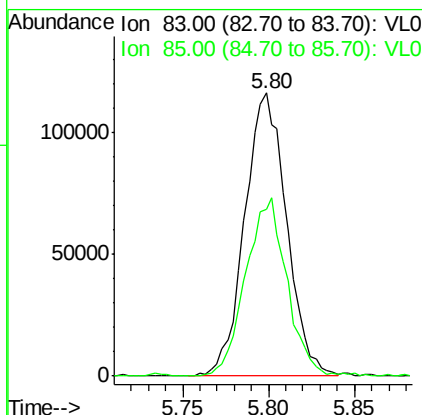
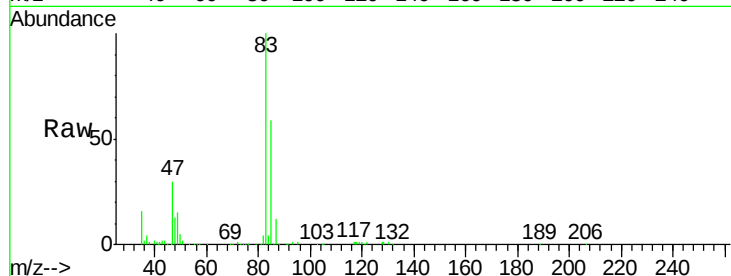
#29
Chloroform
Concen: 0.932 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	195384
Ion Ratio	Lower	Upper	
83	100		
85	58.9	53.2	79.8

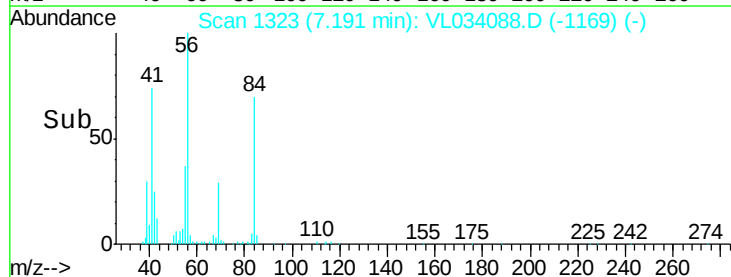
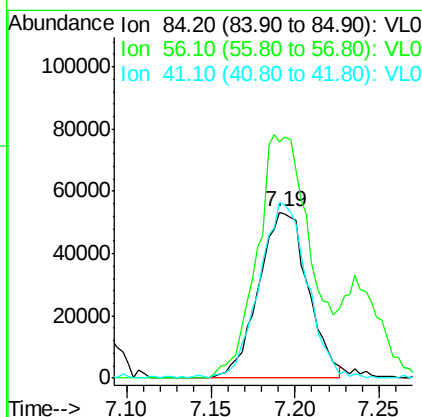
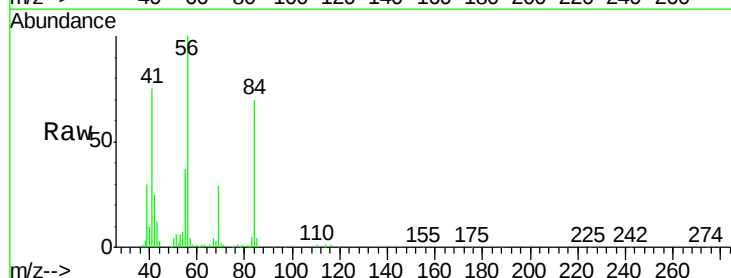
Manual Integrations
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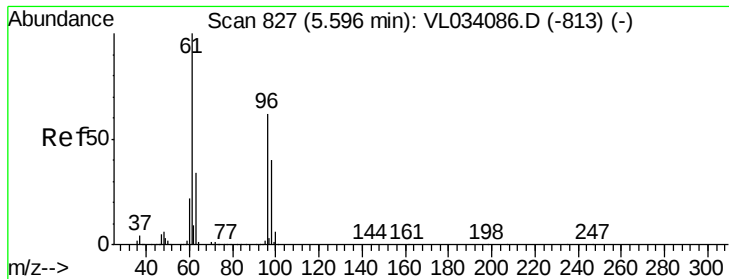
MMDadoda
8/8/2019 12:41:15 PM



#30
Cyclohexane
Concen: 1.133 ppbv m
RT: 7.19 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Tgt Ion	84	Resp	108876
Ion Ratio	Lower	Upper	
84	100		
56	203.1	122.6	184.0#
41	103.9	80.1	120.1





#31

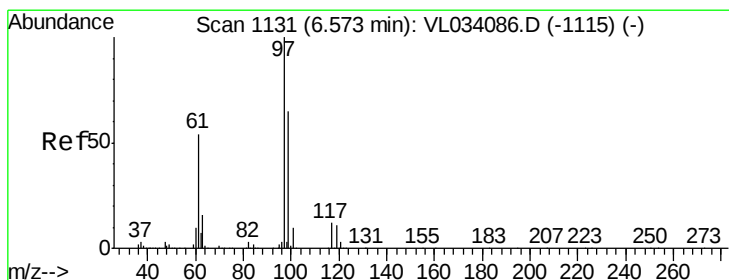
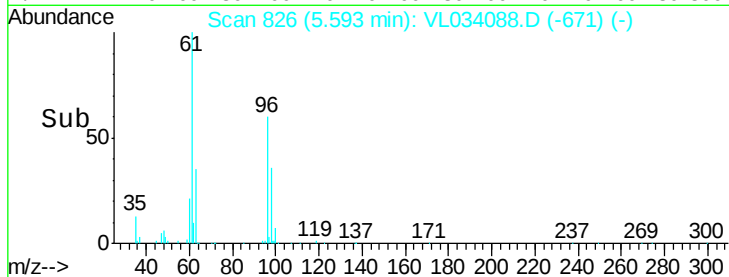
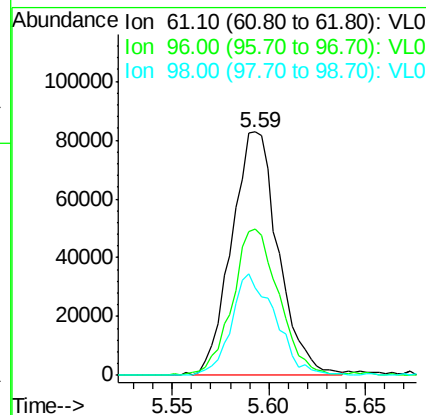
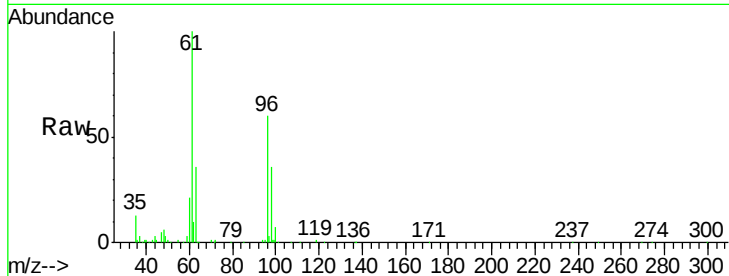
cis-1,2-Dichloroethene
 Concen: 1.167 ppbv
 RT: 5.59 min Scan# 826
 Delta R.T. -0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
61	100		137955		
96	59.7	49.3	73.9		
98	35.6	32.4	48.6		

Manual Integrations
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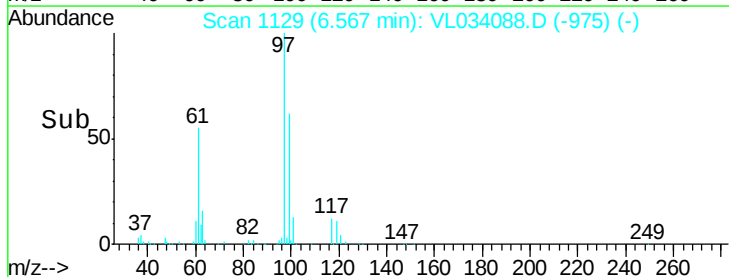
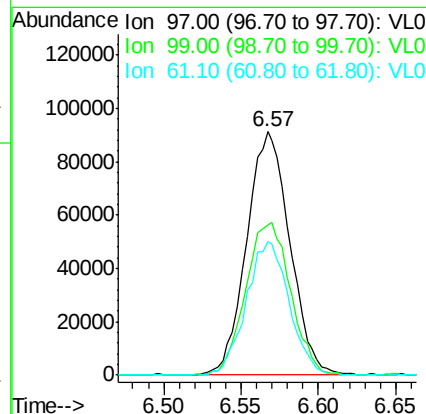
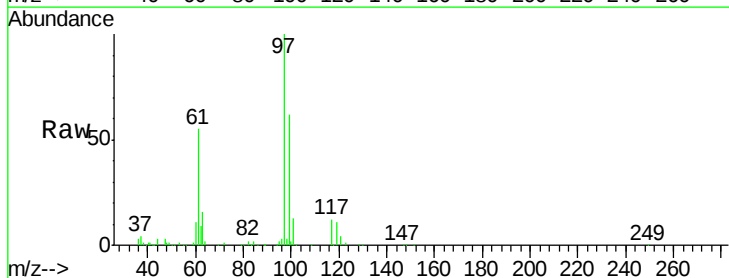
MMDadoda
 8/8/2019 12:41:15 PM

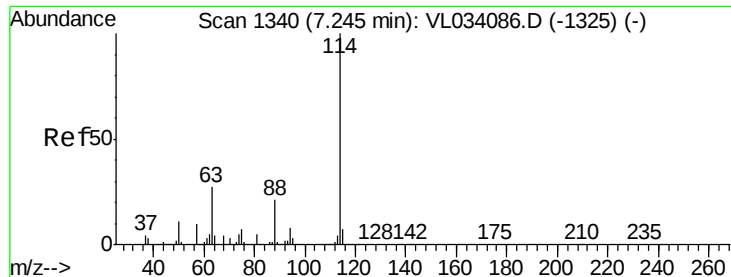


#32

1,1,1-Trichloroethane
 Concen: 0.801 ppbv
 RT: 6.57 min Scan# 1129
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		176953		
99	65.6	52.2	78.4		
61	54.8	42.0	63.0		





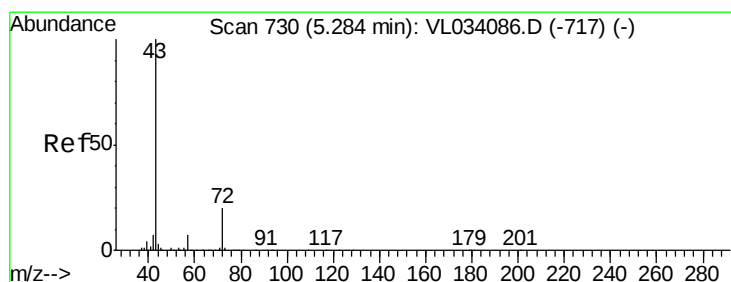
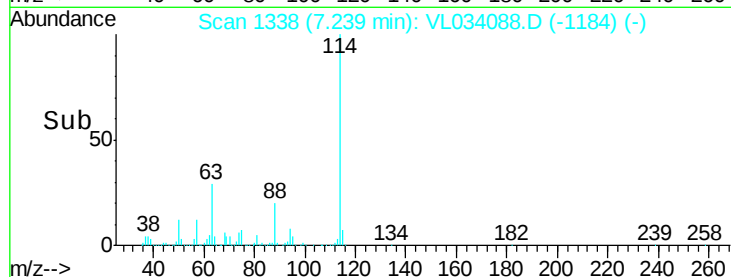
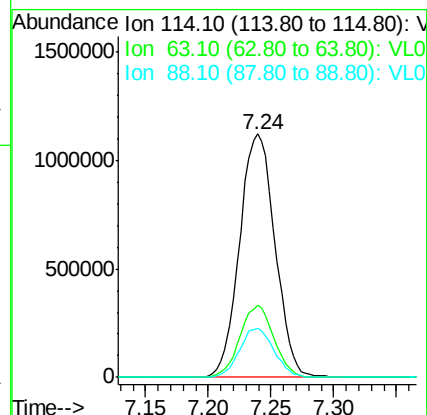
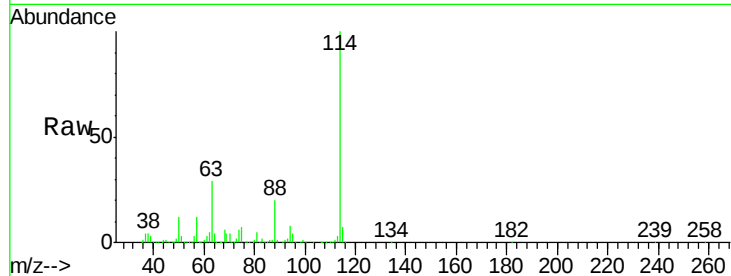
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.5	33.7
88	19.8	15.7	23.5

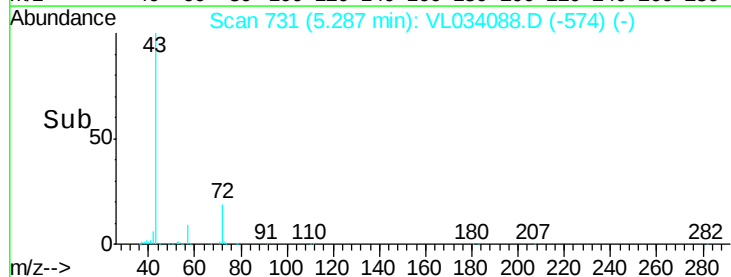
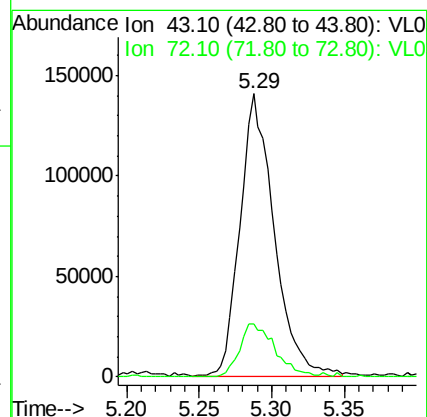
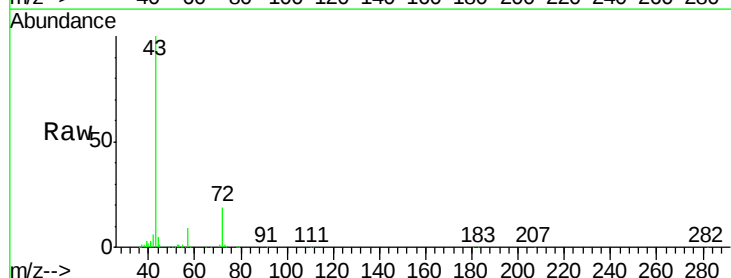
Manual Integrations
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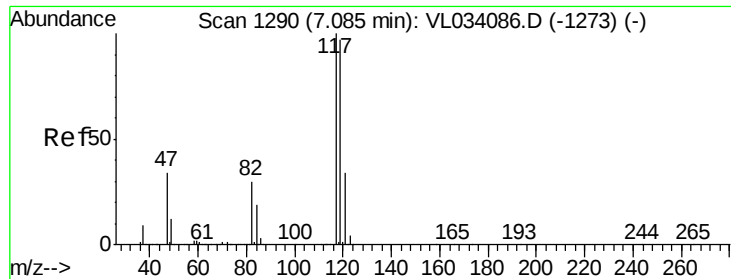
MMDadoda
 8/8/2019 12:41:15 PM



#34
 2-Butanone
 Concen: 1.815 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.1	16.0	24.0





#35

Carbon Tetrachloride

Concen: 1.017 ppbv

RT: 7.08 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

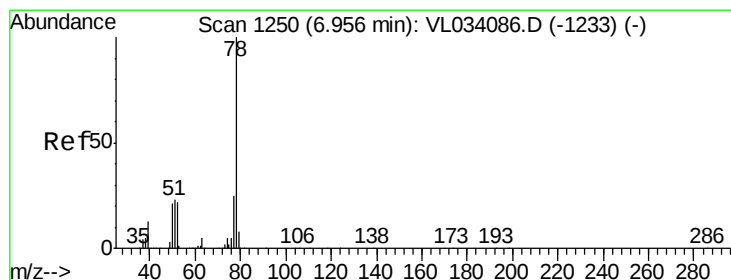
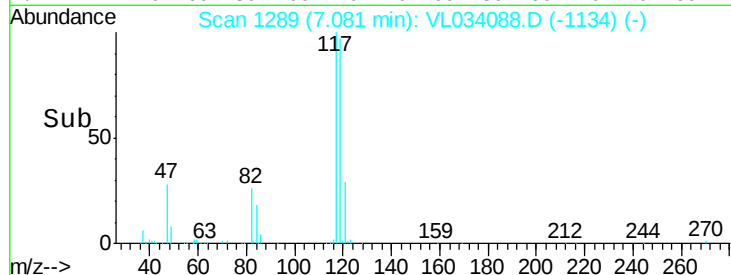
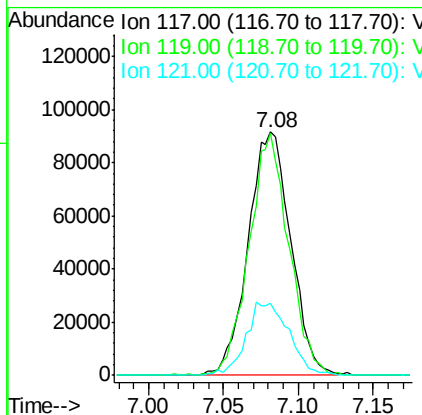
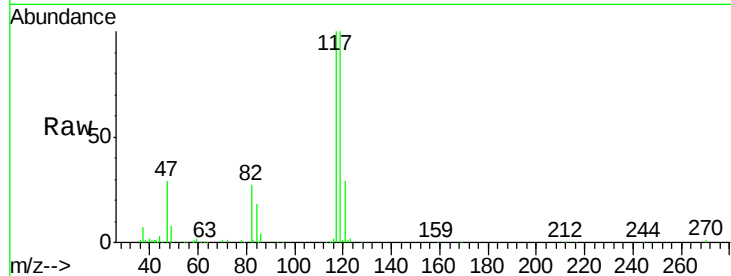
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	181495
Ion Ratio	Lower	Upper	
117	100		
119	99.2	77.8	116.6
121	29.4	27.4	41.2

Manual Integrations
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8/8/2019 12:41:15 PM



#36

Benzene

Concen: 1.296 ppbv

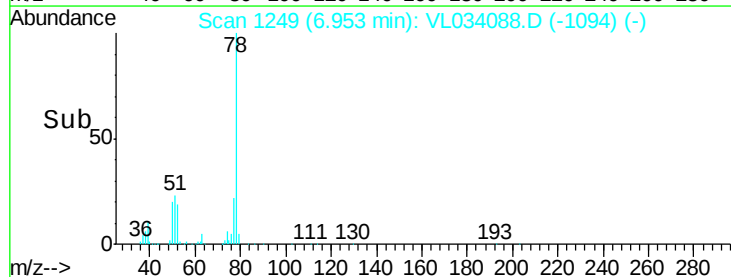
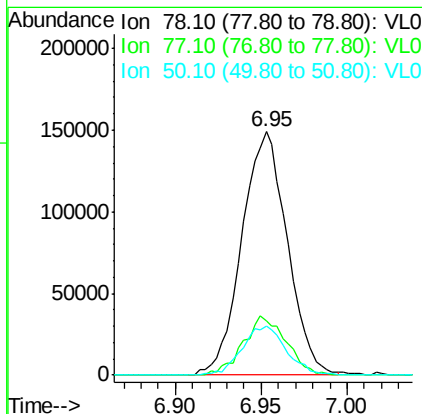
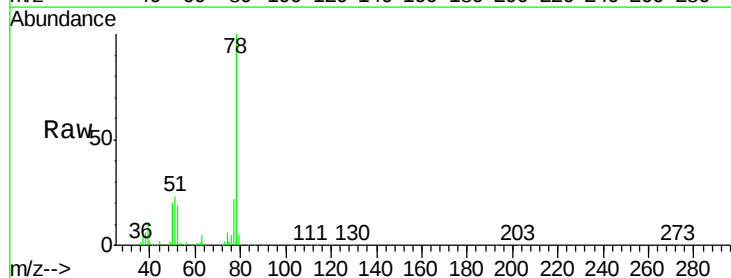
RT: 6.95 min Scan# 1249

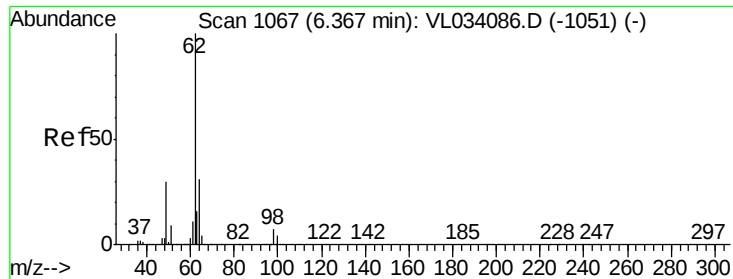
Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:	78	Resp:	273023
Ion Ratio	Lower	Upper	
78	100		
77	22.1	19.9	29.9
50	20.2	16.7	25.1





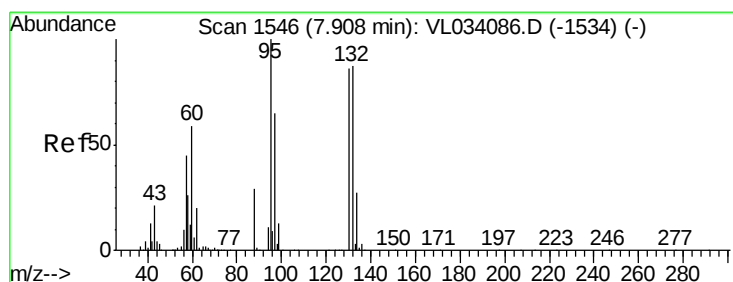
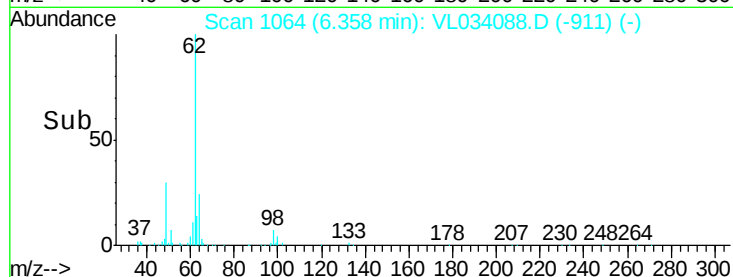
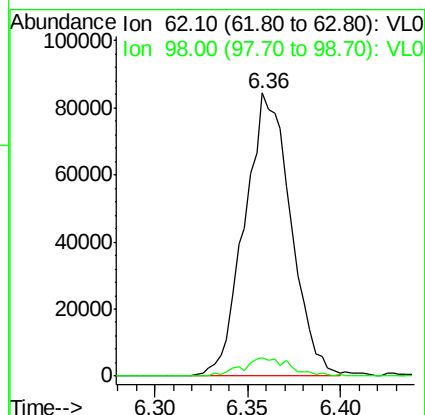
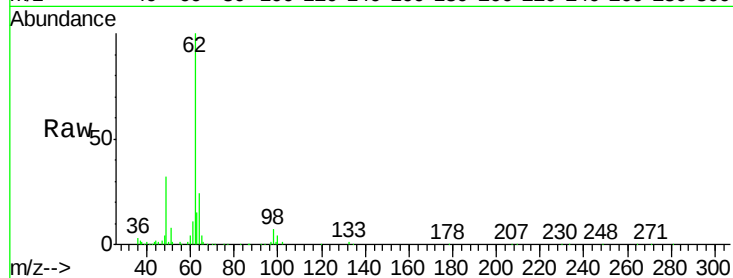
#37
 1,2-Dichloroethane
 Concen: 1.066 ppbv
 RT: 6.36 min Scan# 1064
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	146483		
98	6.9		4.9	7.3

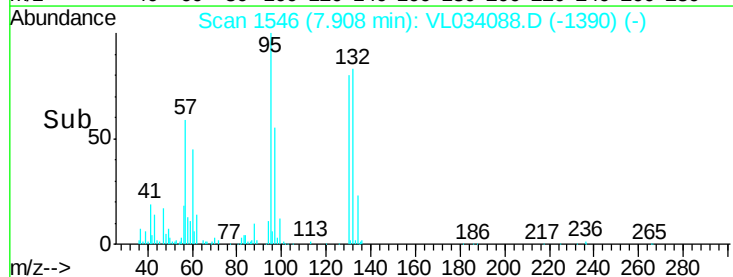
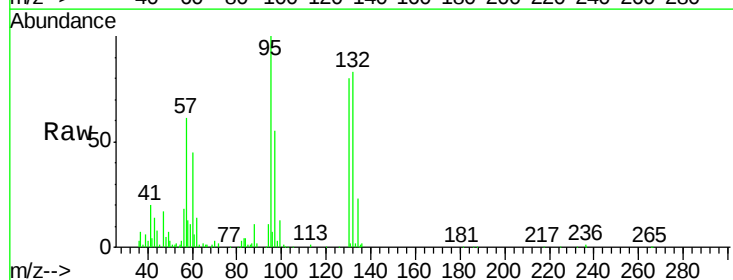
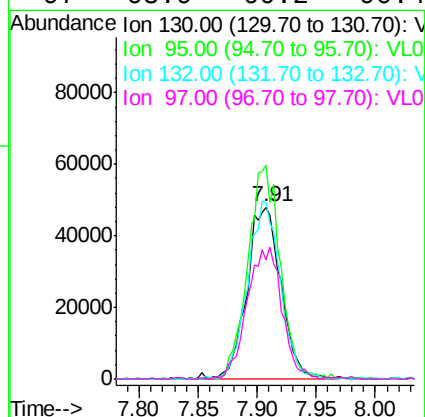
Manual Integrations
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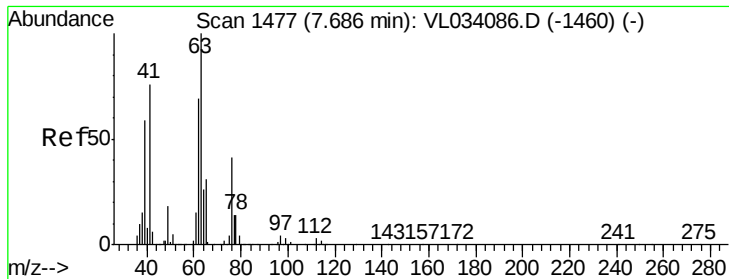
MMDadoda
 8/8/2019 12:41:15 PM



#38
 Trichloroethene
 Concen: 1.382 ppbv m
 RT: 7.91 min Scan# 1546
 Delta R.T. 0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	98308		
95	124.3		92.1	138.1
132	102.7		79.7	119.5
97	68.9		60.2	90.4





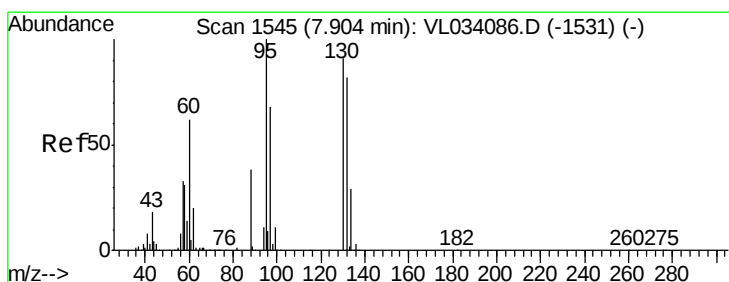
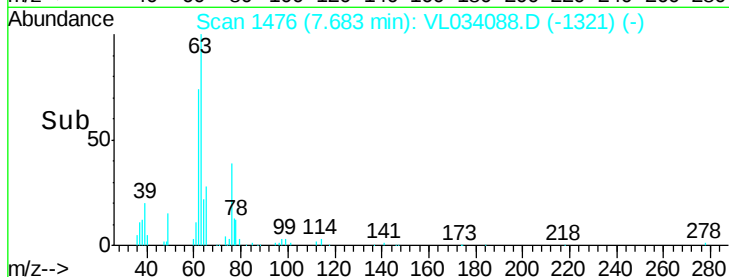
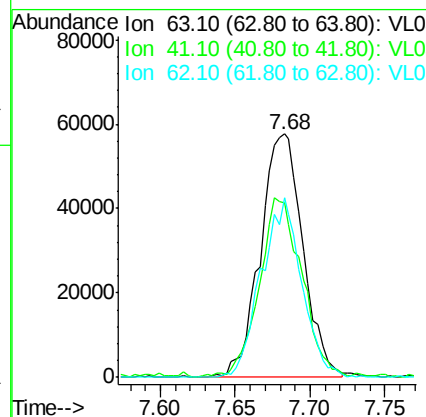
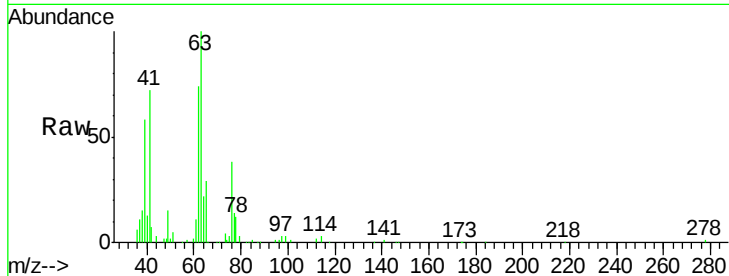
#39
 1,2-Dichloropropane
 Concen: 1.495 ppbv
 RT: 7.68 min Scan# 1476
 Delta R.T. -0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	63	Resp:	113934
Ion Ratio	Lower	Upper	
63	100		
41	71.4	60.6	91.0
62	73.9	55.0	82.6

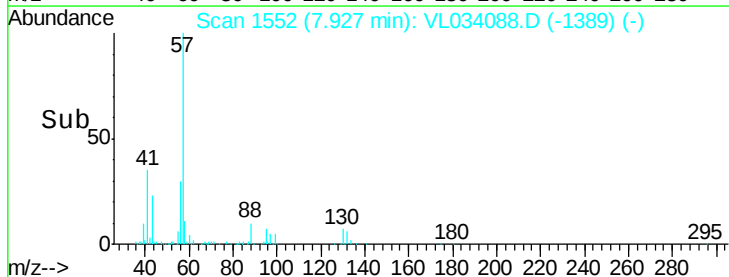
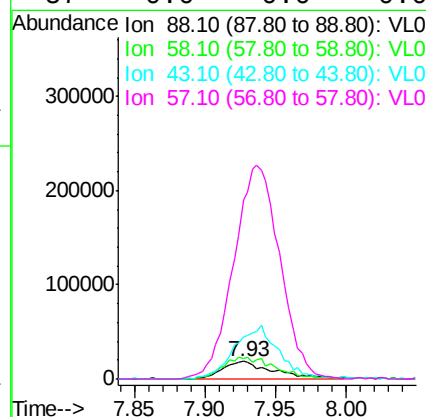
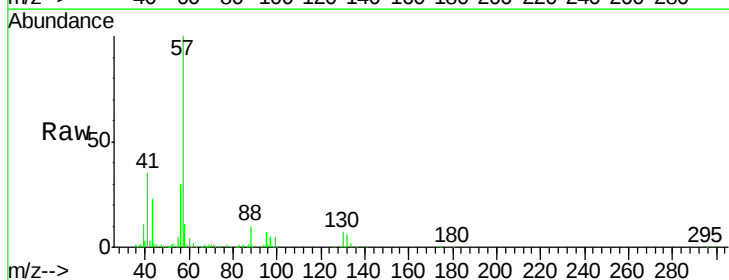
Manual Integrations
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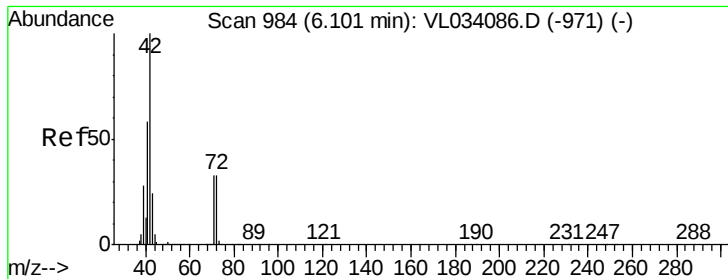
MMDadoda
 8/8/2019 12:41:15 PM



#40
 1,4-Dioxane
 Concen: 1.600 ppbv m
 RT: 7.93 min Scan# 1552
 Delta R.T. 0.02 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion:	88	Resp:	46704
Ion Ratio	Lower	Upper	
88	100		
58	135.2	113.0	169.4
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 1.961 ppbv

RT: 6.11 min Scan# 988

Delta R.T. 0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

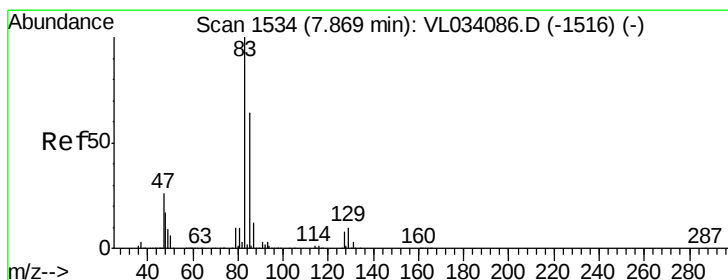
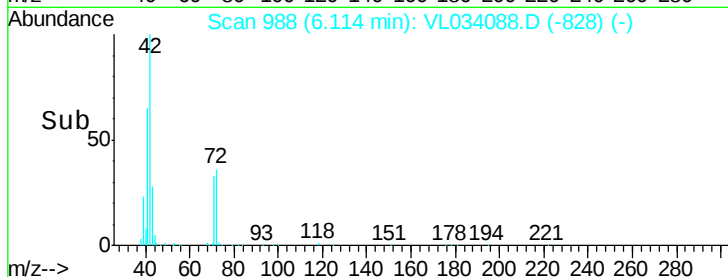
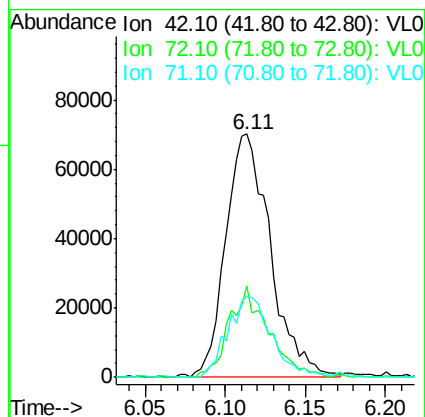
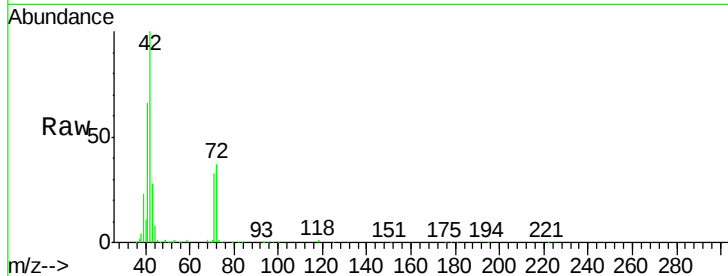
ClientSampleId :

VSTDIC001

Tot Ion:	42	Resp:	133047
Ion Ratio		Lower	Upper
42	100		
72	33.8	26.9	40.3
71	33.6	26.5	39.7

Manual Integrations
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MMDadoda
8/8/2019 12:41:15 PM



#42

Bromodichloromethane

Concen: 1.192 ppbv

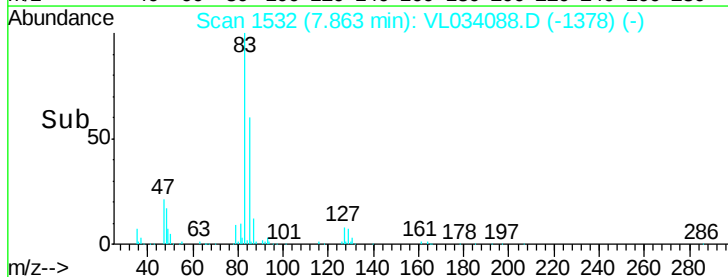
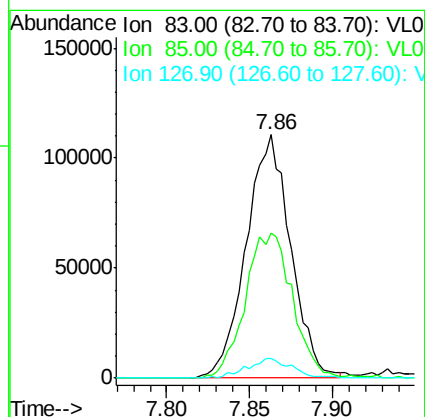
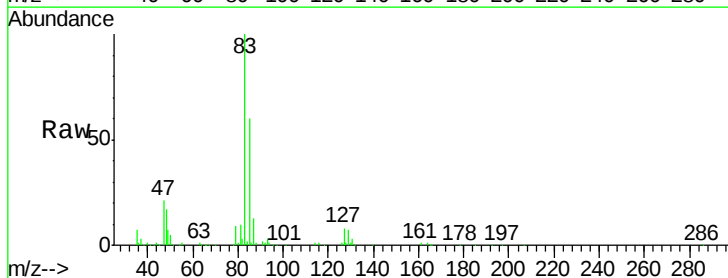
RT: 7.86 min Scan# 1532

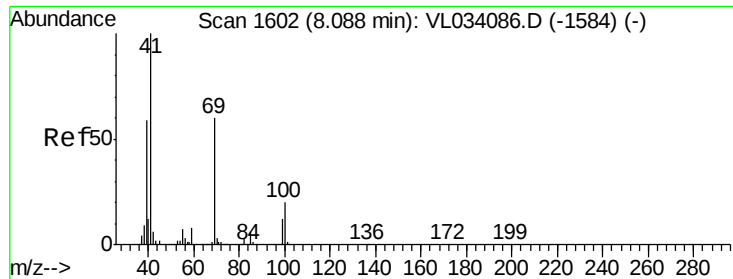
Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:	83	Resp:	206477
Ion Ratio		Lower	Upper
83	100		
85	59.8	50.9	76.3
127	7.9	6.1	9.1





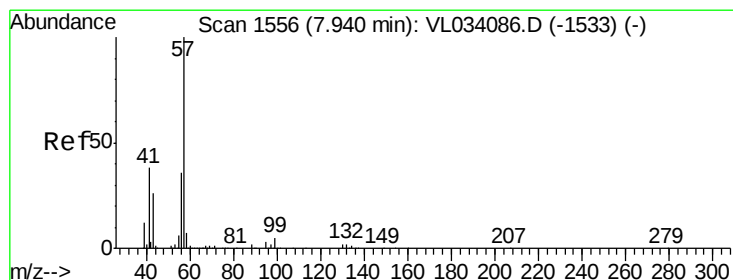
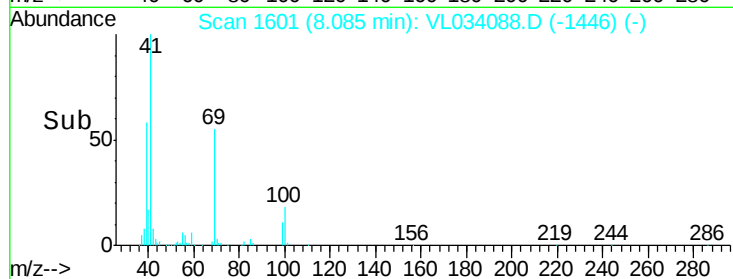
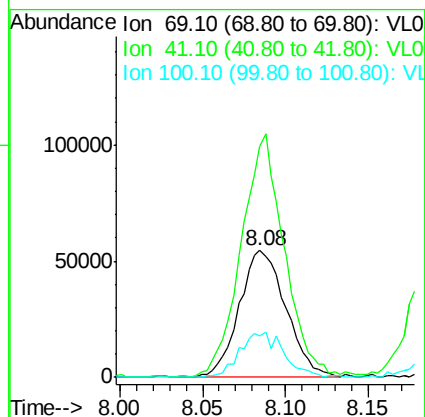
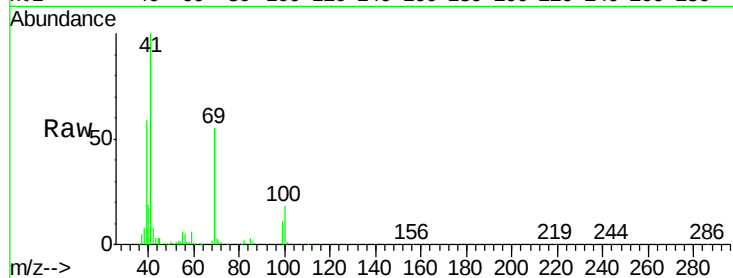
#43
Methvl Methacrilate
Concen: 1.478 ppbv
RT: 8.08 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	178.0	132.9	199.3	
100	33.6	25.8	38.8	

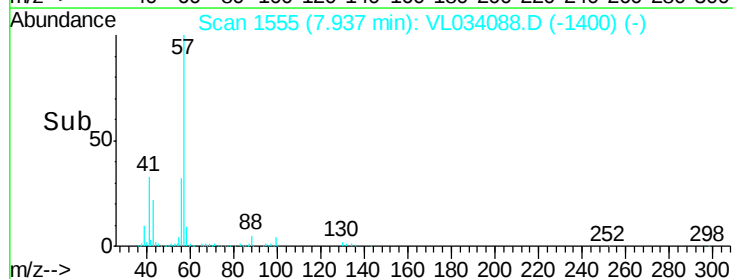
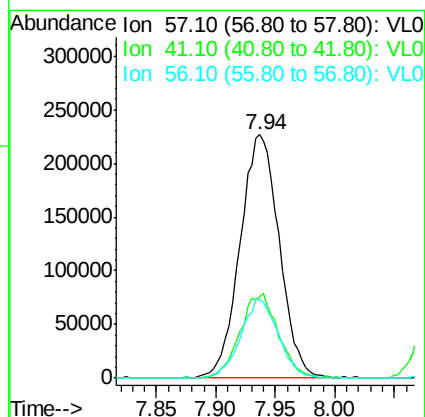
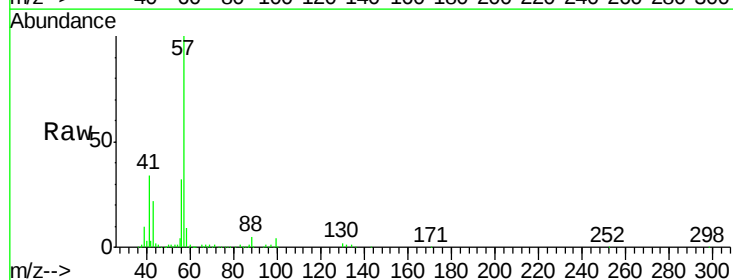
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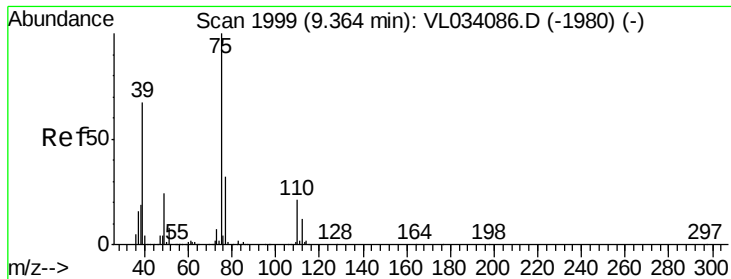
MMDadoda
8/8/2019 12:41:15 PM



#44
2,2,4-Trimethylpentane
Concen: 1.641 ppbv
RT: 7.94 min Scan# 1555
Delta R.T. -0.00 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.7	29.2	43.8	
56	31.3	26.7	40.1	





#45

t-1,3-Dichloropropene

Concen: 1.459 ppbv

RT: 9.36 min Scan# 1997

Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 131000

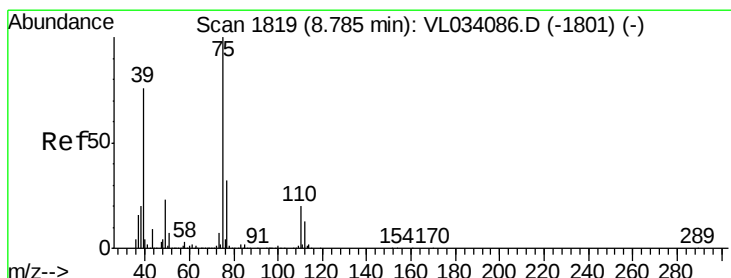
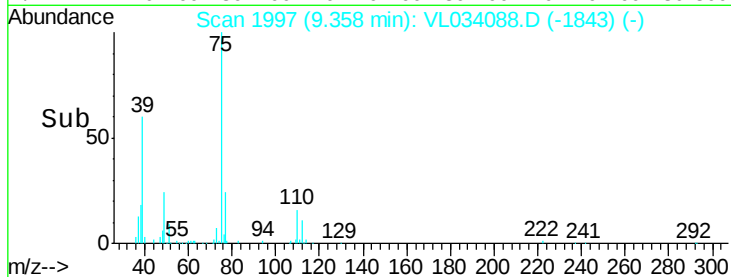
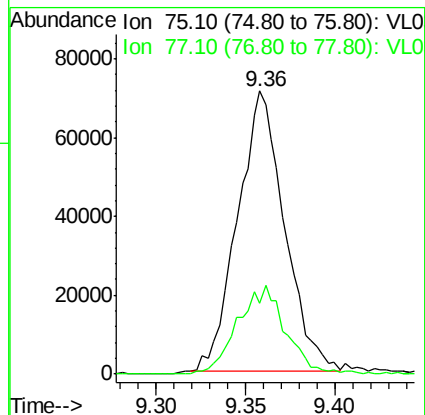
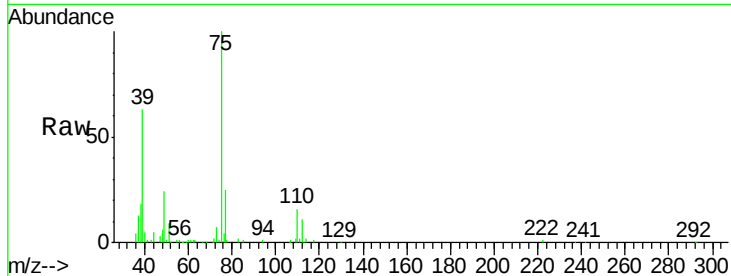
Ion Ratio Lower Upper

75 100

77 26.0 25.7 38.5

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8/8/2019 12:41:15 PM



#46

cis-1,3-Dichloropropene

Concen: 1.516 ppbv

RT: 8.78 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

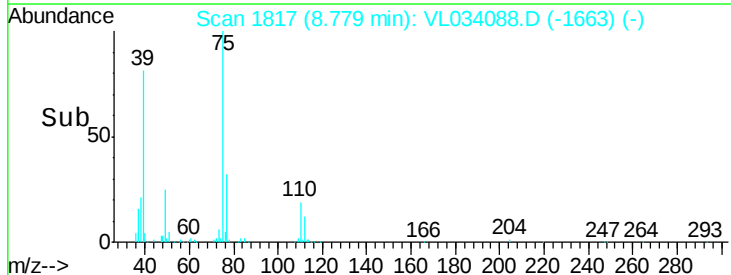
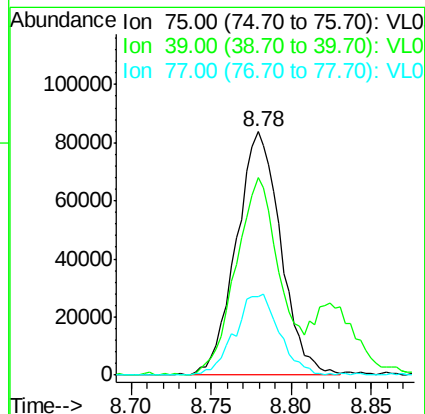
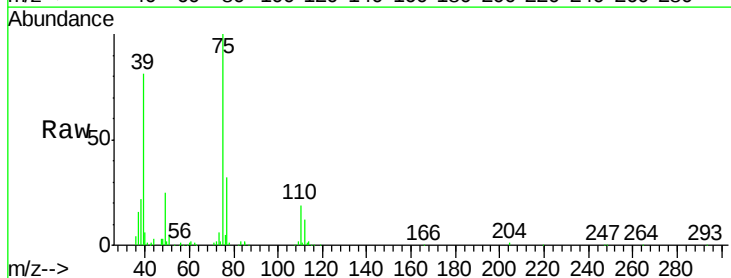
Tgt Ion: 75 Resp: 158024

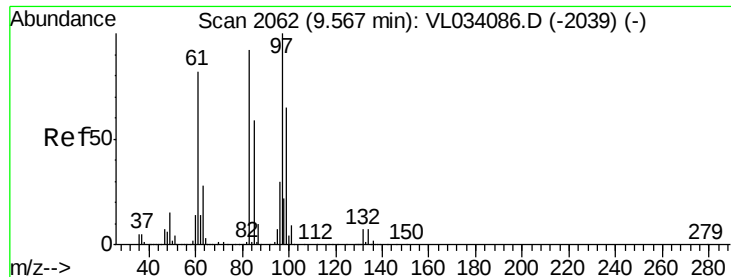
Ion Ratio Lower Upper

75 100

39 80.9 61.0 91.4

77 32.3 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 1.284 ppbv

RT: 9.56 min Scan# 2059

Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

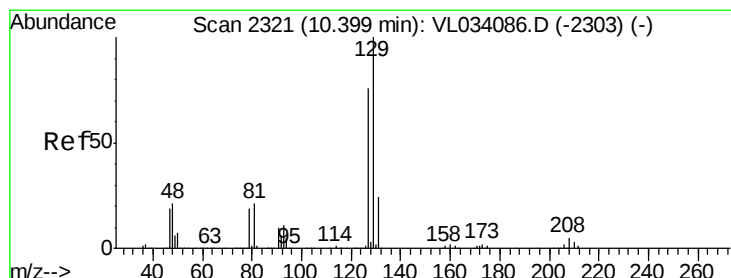
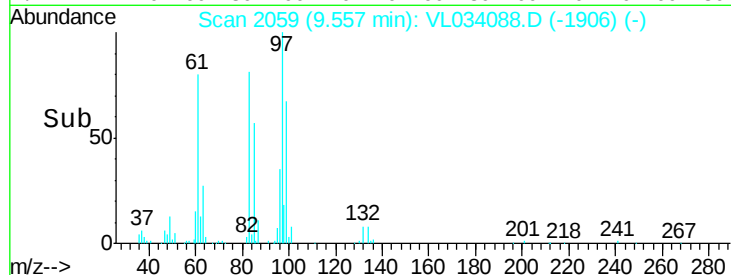
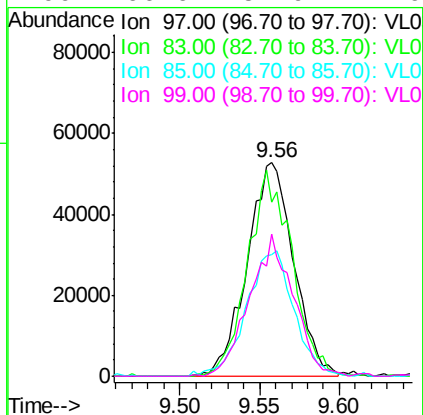
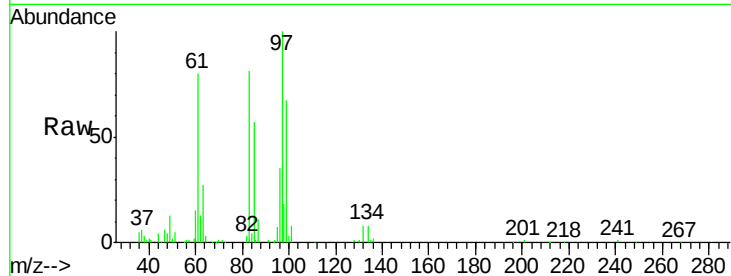
ClientSampleId :

VSTDIC001

Tot Ion:	97	Resp:	105364
Ion	Ratio	Lower	Upper
97	100		
83	81.4	74.0	111.0
85	57.2	47.1	70.7
99	66.6	51.9	77.9

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#48

Dibromochloromethane

Concen: 1.182 ppbv

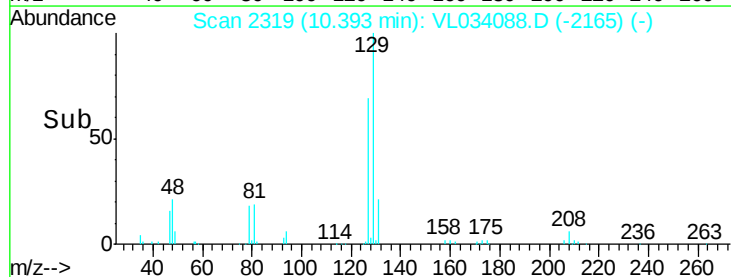
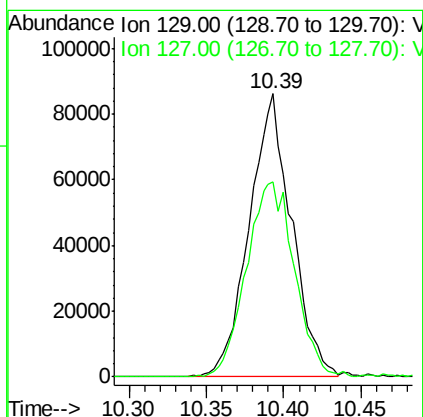
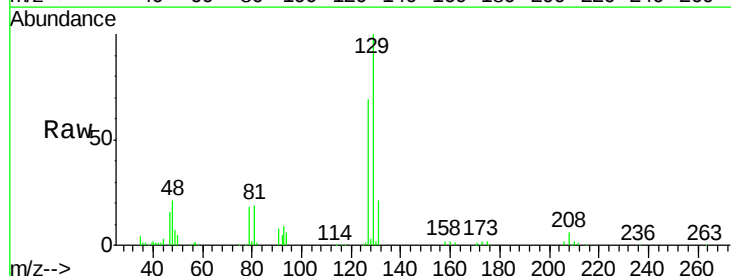
RT: 10.39 min Scan# 2319

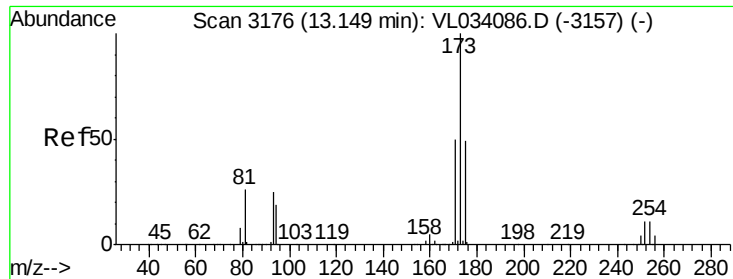
Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:	129	Resp:	164076
Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.2





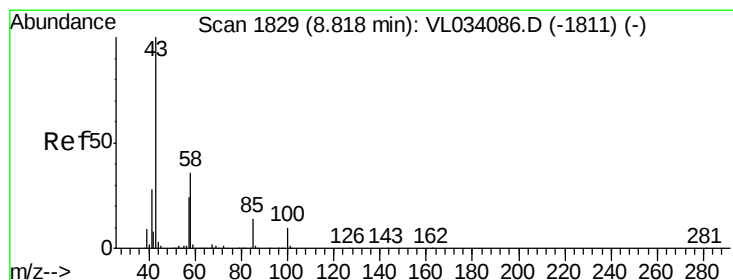
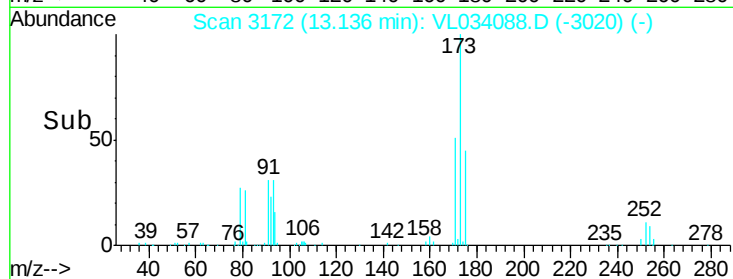
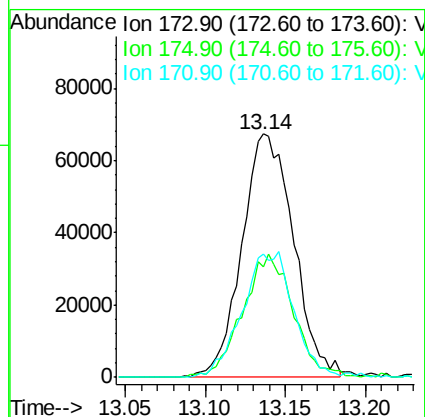
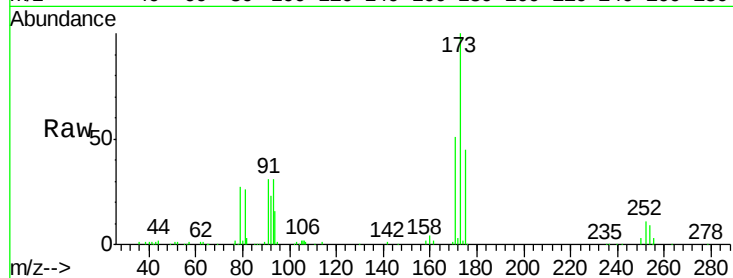
#49
Bromoform
Concen: 1.237 ppbv
RT: 13.14 min Scan# 3172
Delta R.T. -0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.8	39.8	59.8
171	52.0	42.7	64.1

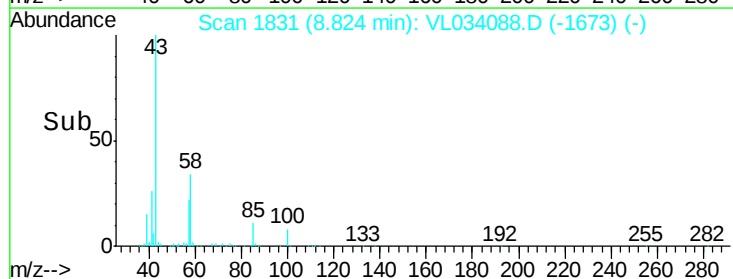
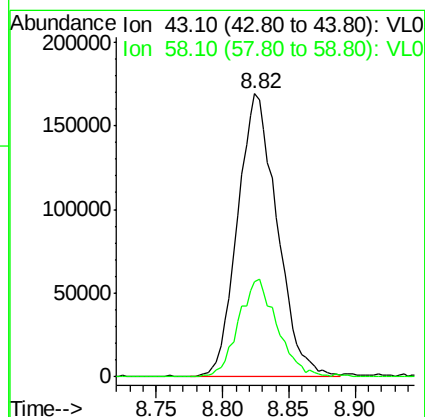
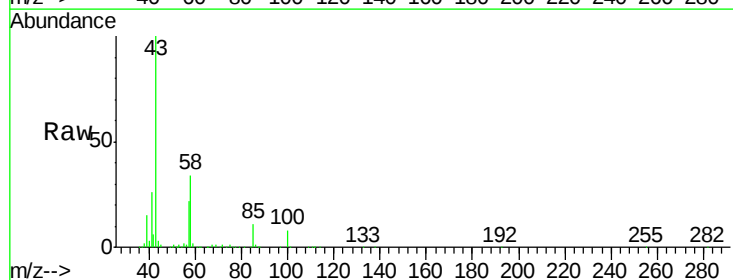
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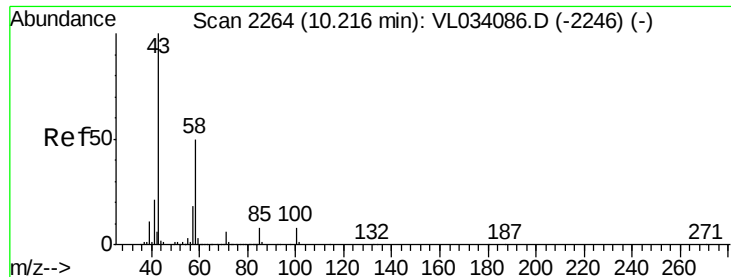
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#50
4-Methyl-2-Pentanone
Concen: 1.870 ppbv
RT: 8.82 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.1	28.2	42.2





#51

2-Hexanone

Concen: 1.916 ppbv

RT: 10.23 min Scan# 2267

Delta R.T. 0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

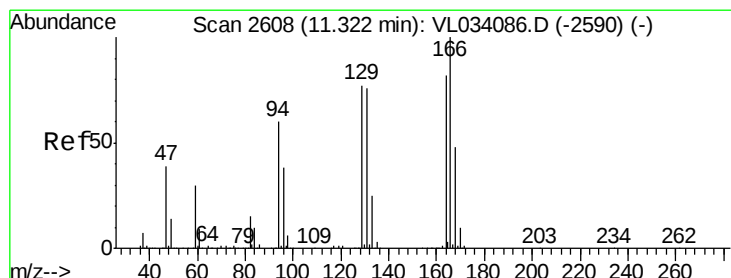
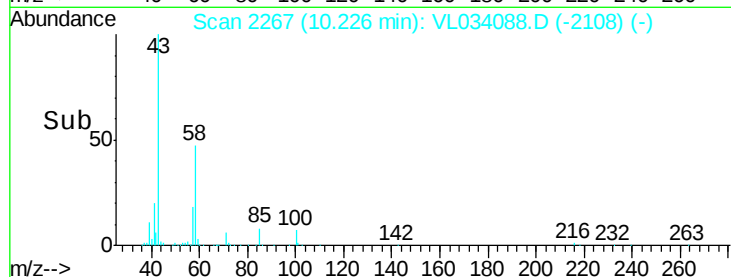
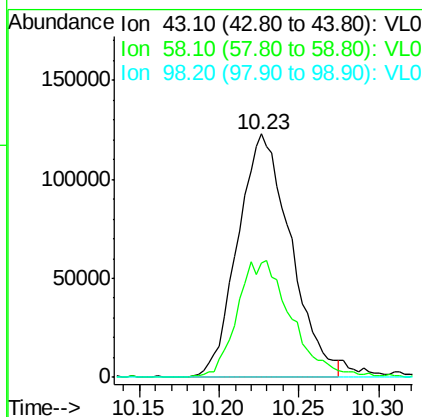
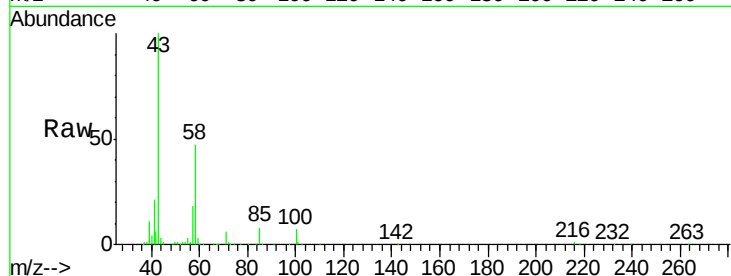
VSTDIC001

Tot Ion: 43 Resp: 277614

Ion	Ratio	Lower	Upper
43	100		
58	50.0	38.5	57.7
98	0.1	0.0	0.0#

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8/8/2019 12:41:15 PM



#52

Tetrachloroethene

Concen: 1.533 ppbv

RT: 11.32 min Scan# 2606

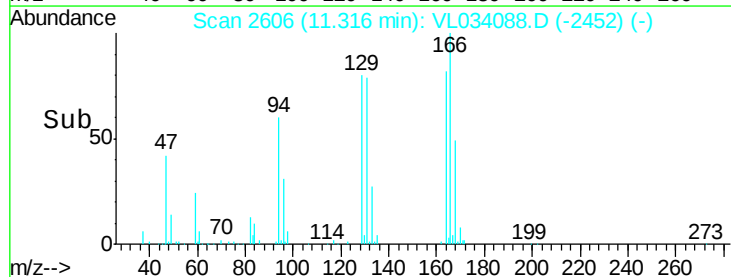
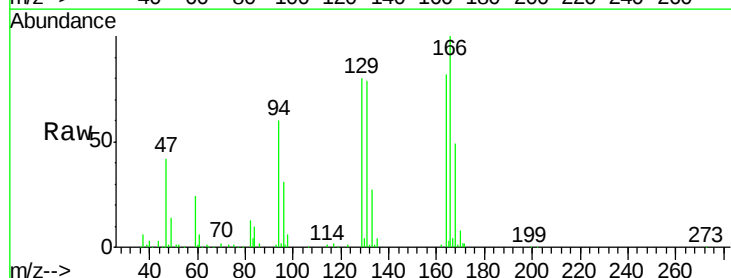
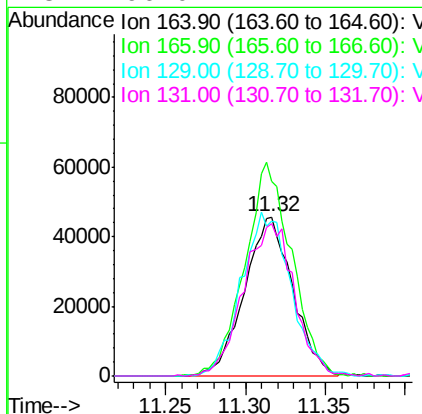
Delta R.T. -0.01 min

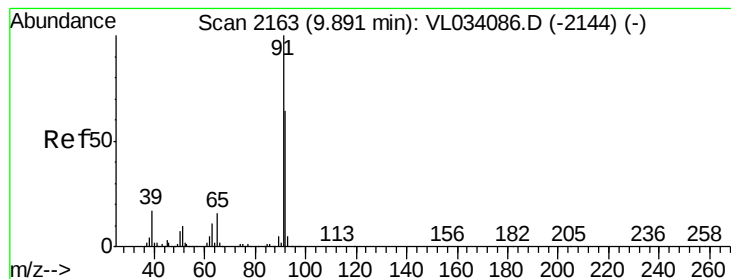
Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion: 164 Resp: 94213

Ion	Ratio	Lower	Upper
164	100		
166	121.3	96.8	145.2
129	96.3	74.9	112.3
131	96.0	74.2	111.2





#53

Toluene

Concen: 1.548 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 324118

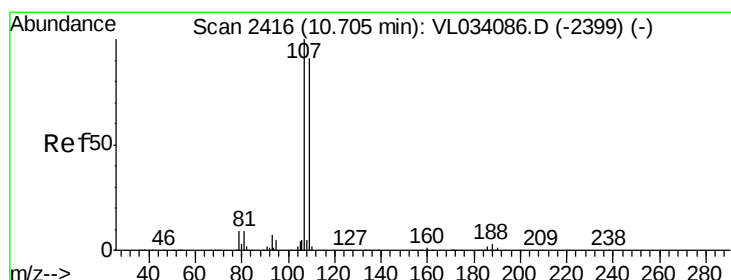
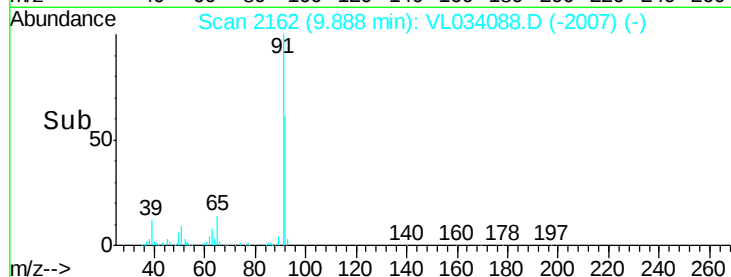
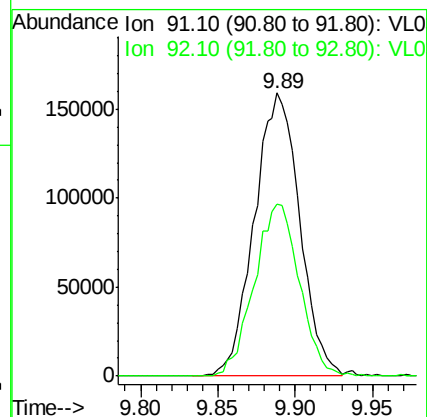
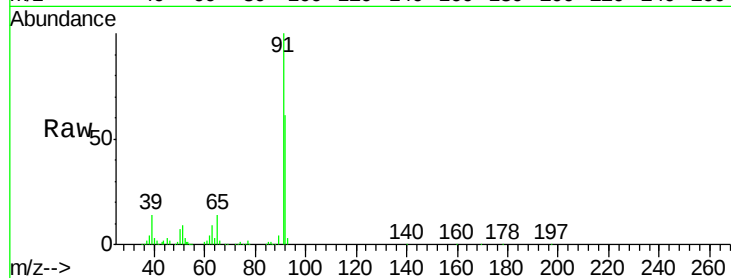
Ion Ratio Lower Upper

91 100

92 60.7 50.3 75.5

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8/8/2019 12:41:15 PM



#54

1,2-Dibromoethane

Concen: 1.313 ppbv

RT: 10.70 min Scan# 2414

Delta R.T. -0.01 min

Lab File: VL034088.D

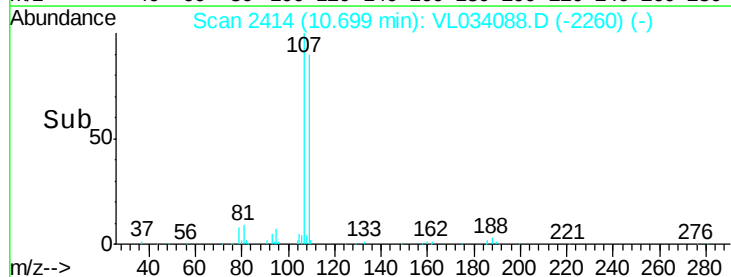
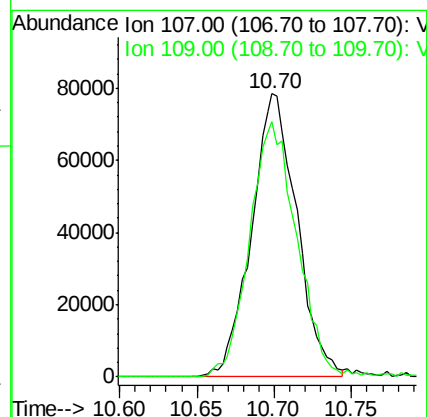
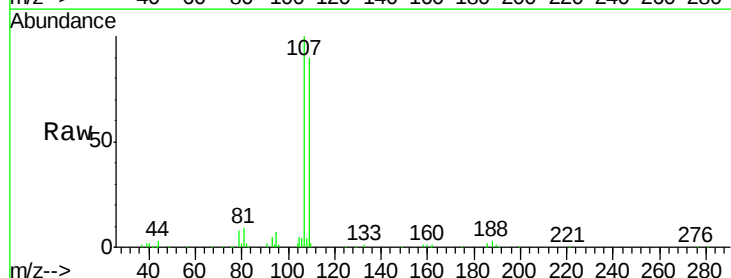
Acq: 5 Aug 2019 14:01

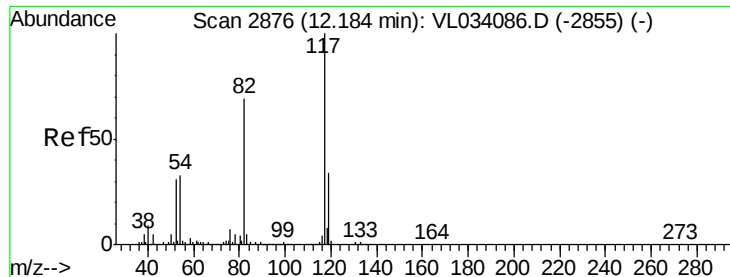
Tgt Ion: 107 Resp: 159855

Ion Ratio Lower Upper

107 100

109 90.4 72.9 109.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2875

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:117 Resp: 2312451

Ion Ratio Lower Upper

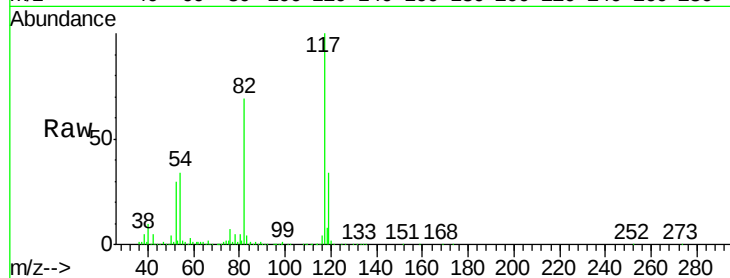
117 100

82 67.0 52.2 78.4

119 35.3 44.8 67.2#

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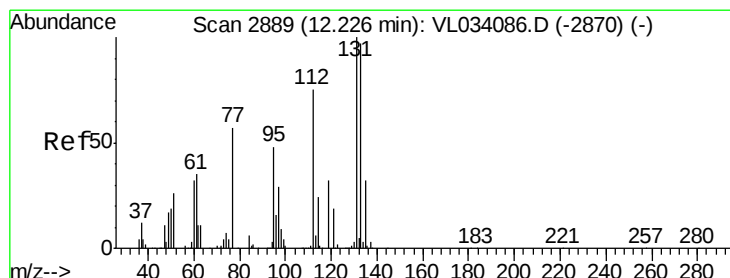
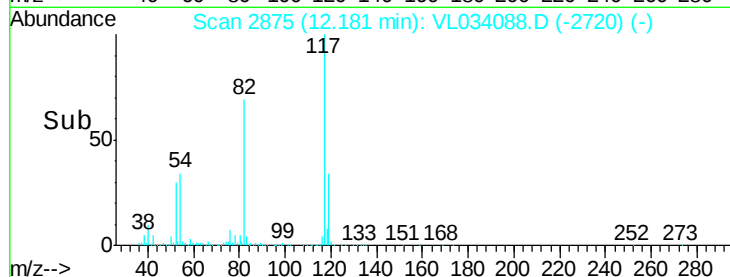
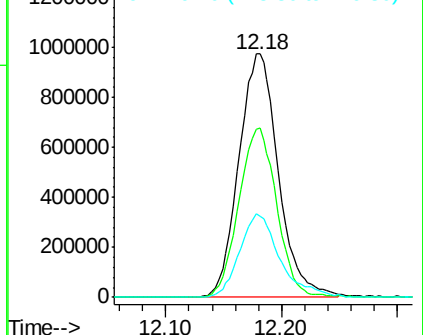
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 1.178 ppbv

RT: 12.22 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

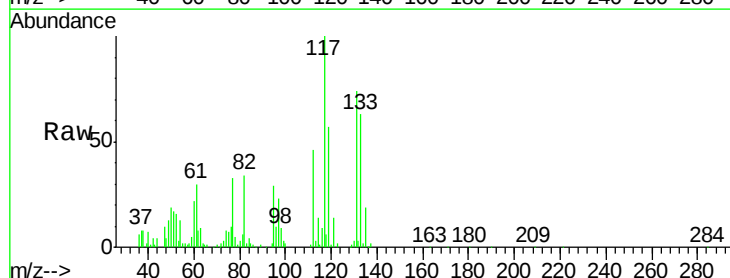
Tgt Ion:131 Resp: 120095

Ion Ratio Lower Upper

131 100

133 94.2 76.5 114.7

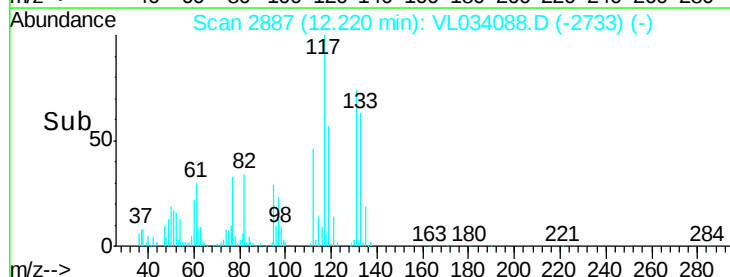
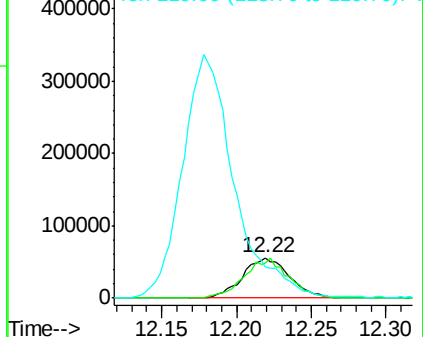
119 681.4 114.7 172.1#

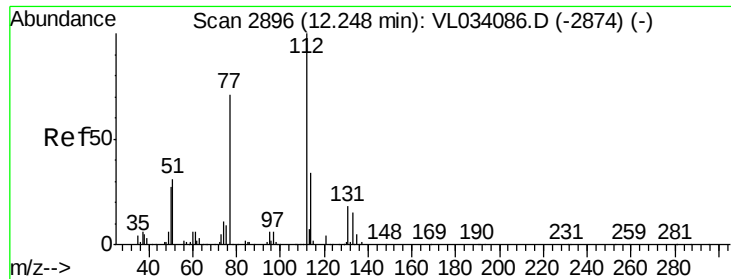


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 1.242 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

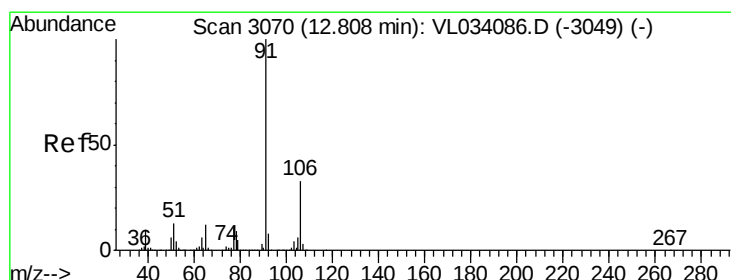
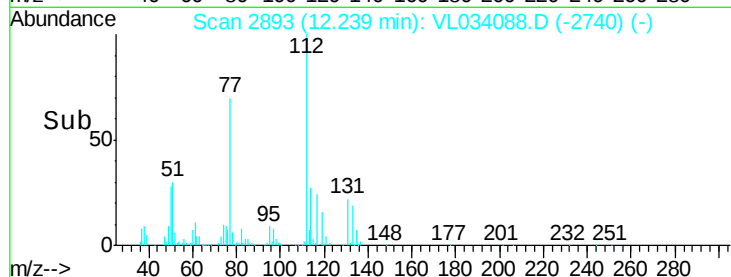
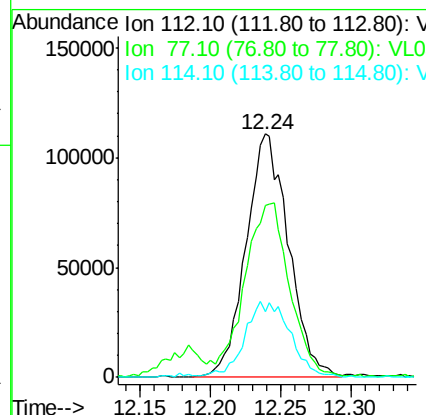
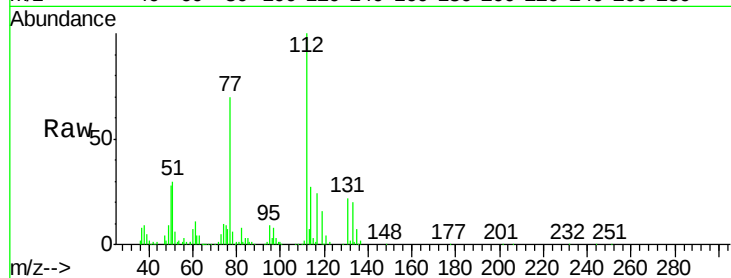
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	234466
Ion Ratio	Lower	Upper	
112	100		
77	70.0	57.8	86.6
114	27.1	30.3	37.1#

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#58

Ethyl Benzene

Concen: 1.472 ppbv

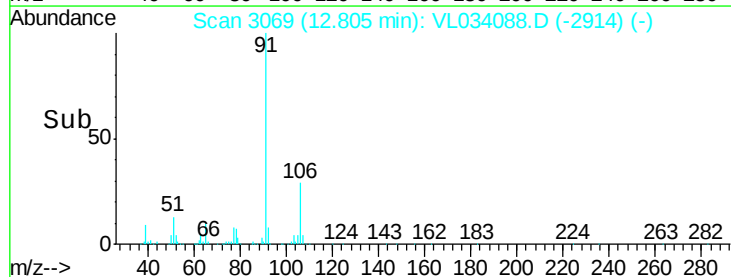
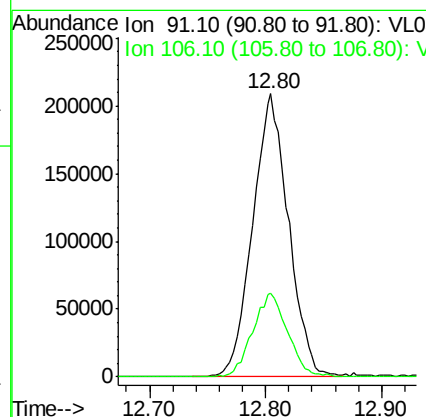
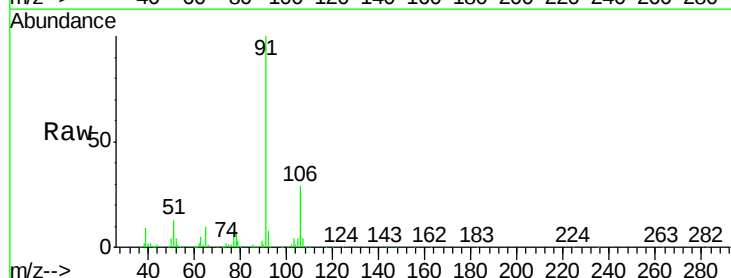
RT: 12.80 min Scan# 3069

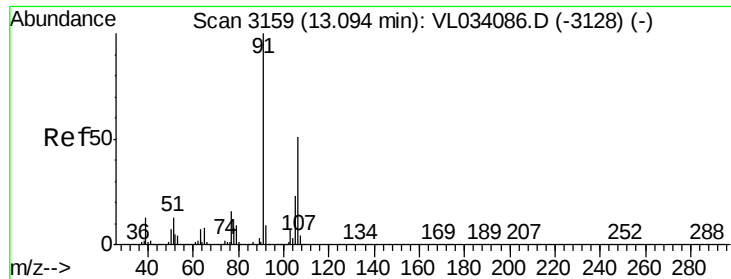
Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:	91	Resp:	449166
Ion Ratio	Lower	Upper	
91	100		
106	29.4	26.0	39.0





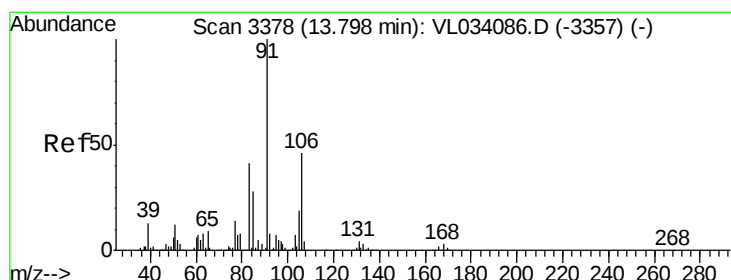
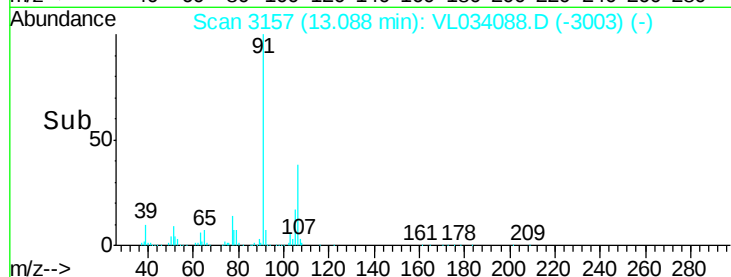
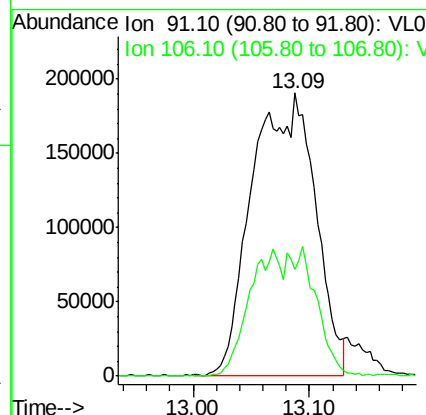
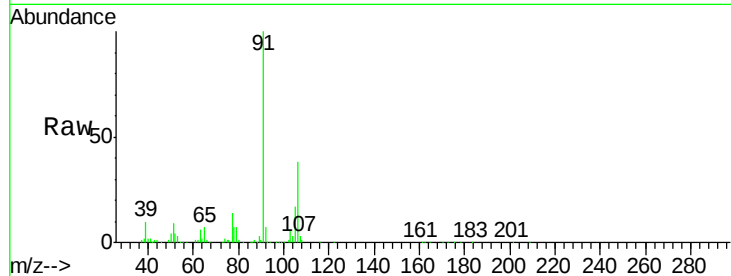
#59
m/p-Xylene
Concen: 2.632 ppbv m
RT: 13.09 min Scan# 3157
Delta R.T. -0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 717897
Ion Ratio Lower Upper
91 100
106 44.7 38.7 58.1

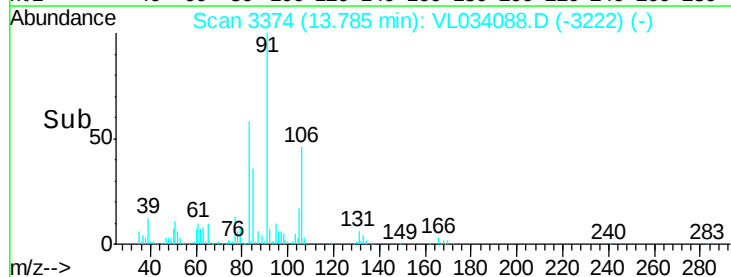
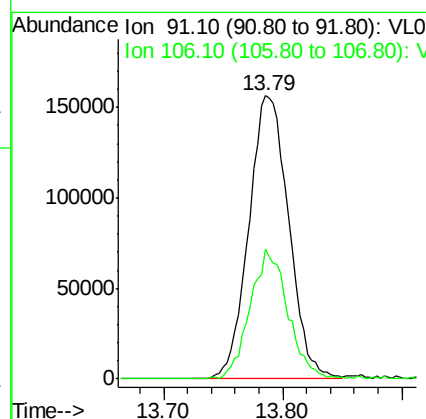
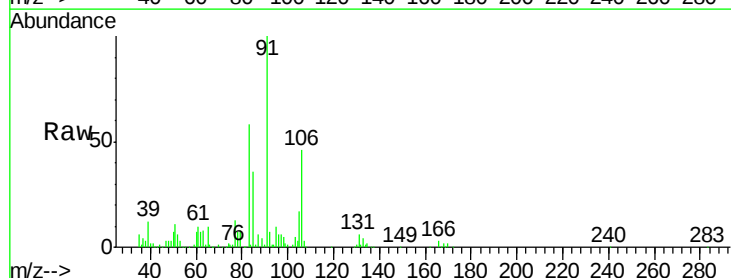
Manual Integrations
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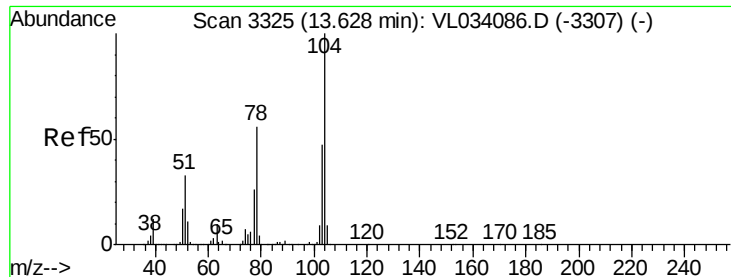
MMDadoda
8/8/2019 12:41:15 PM



#60
o-Xylene
Concen: 1.324 ppbv
RT: 13.79 min Scan# 3374
Delta R.T. -0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Tgt Ion: 91 Resp: 362935
Ion Ratio Lower Upper
91 100
106 43.2 22.6 67.7





#61

Stvrene

Concen: 1.519 ppbv

RT: 13.62 min Scan# 3324

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

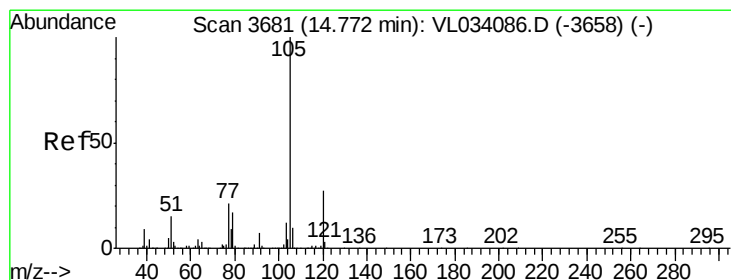
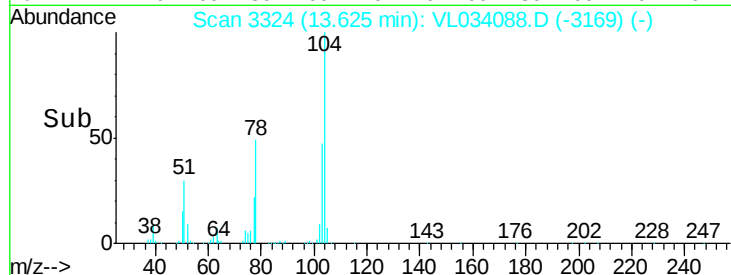
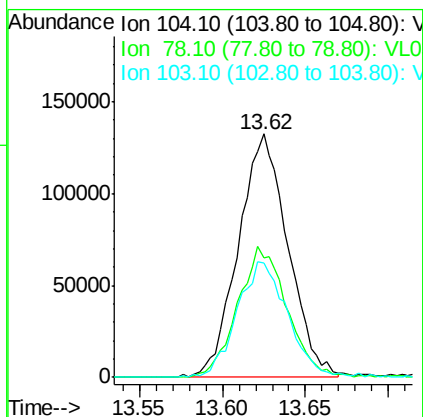
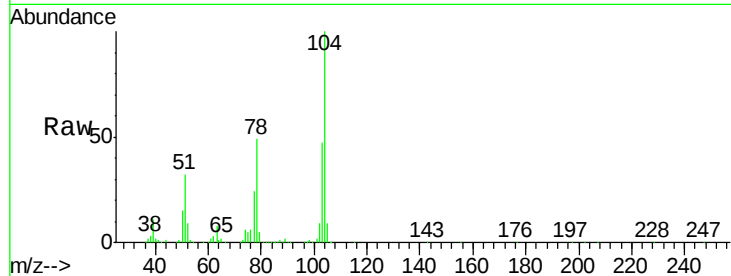
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	272406
Ion Ratio	Lower	Upper	
104	100		
78	54.1	44.2	66.4
103	49.3	38.3	57.5

Manual Integrations
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8/8/2019 12:41:15 PM



#62

Isopropylbenzene

Concen: 1.356 ppbv

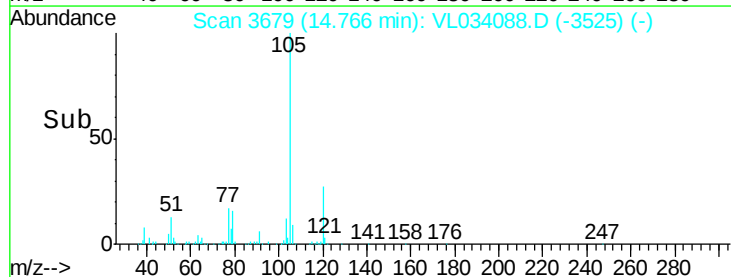
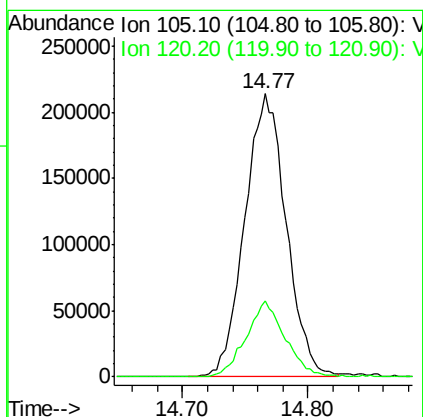
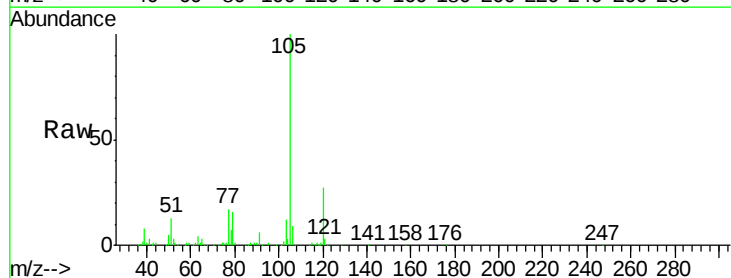
RT: 14.77 min Scan# 3679

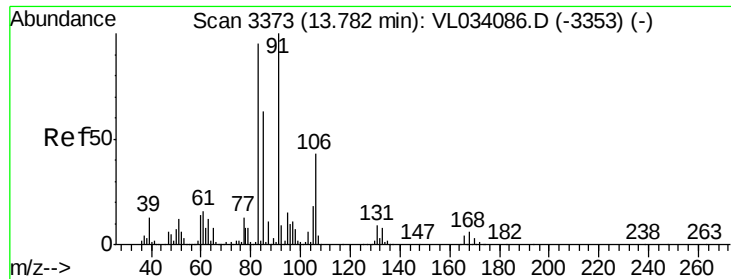
Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:	105	Resp:	487932
Ion Ratio	Lower	Upper	
105	100		
120	25.4	21.4	32.2





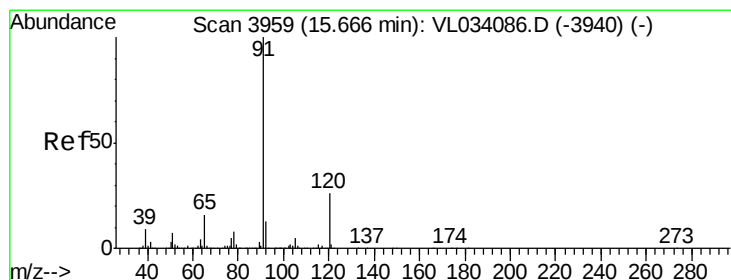
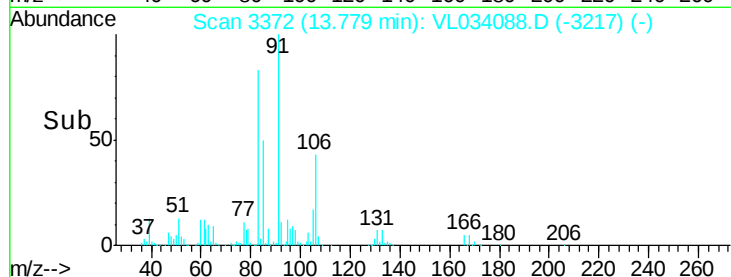
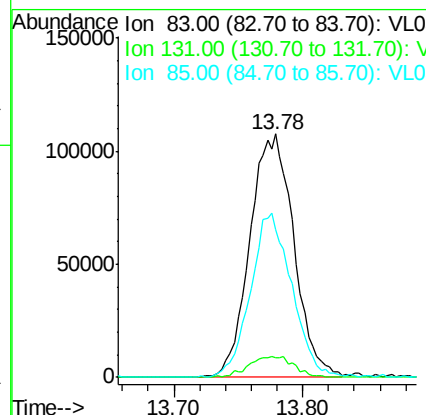
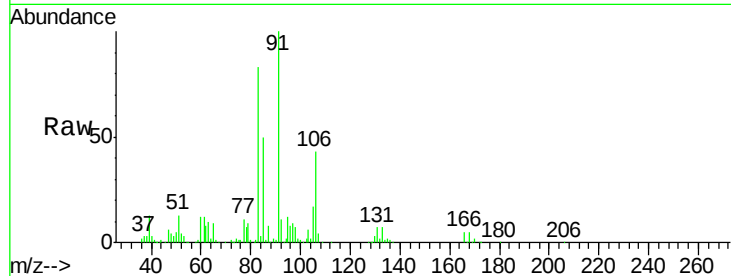
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.181 ppbv
 RT: 13.78 min Scan# 3372
 Delta R.T. -0.00 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.6	13.8
85	64.1	32.6	97.8

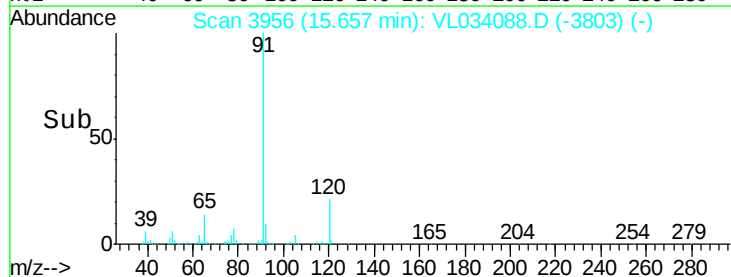
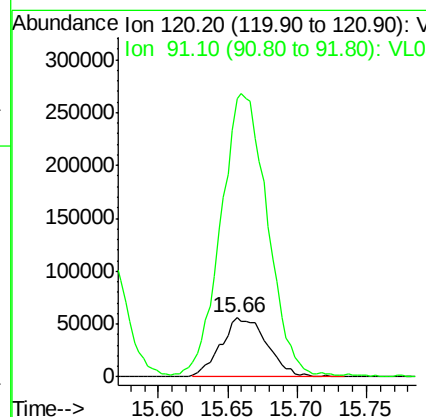
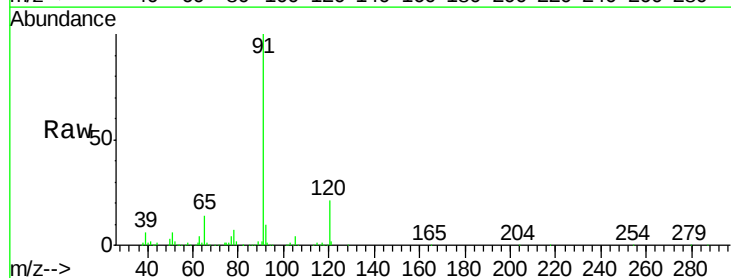
Manual Integrations
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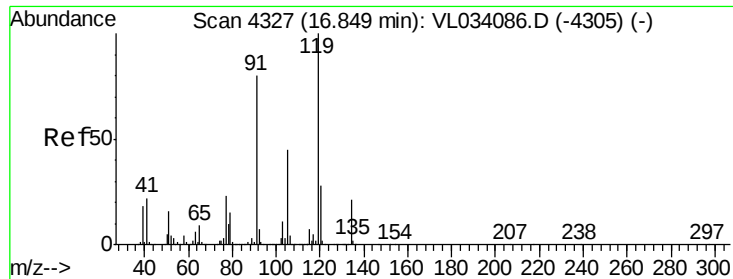
MMDadoda
 8/8/2019 12:41:15 PM



#64
 n-propylbenzene
 Concen: 1.416 ppbv m
 RT: 15.66 min Scan# 3956
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Lower	Upper
120	100		
91	0.0	359.7	539.5#





#65

tert-Butylbenzene

Concen: 1.335 ppbv

RT: 16.85 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

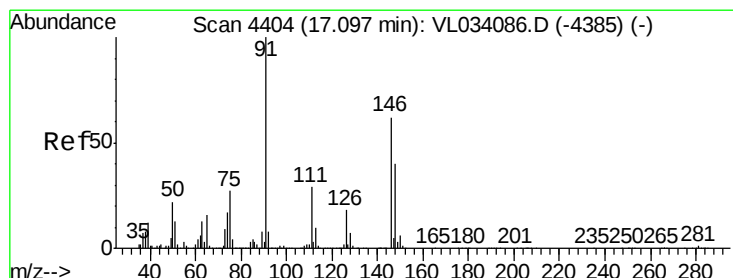
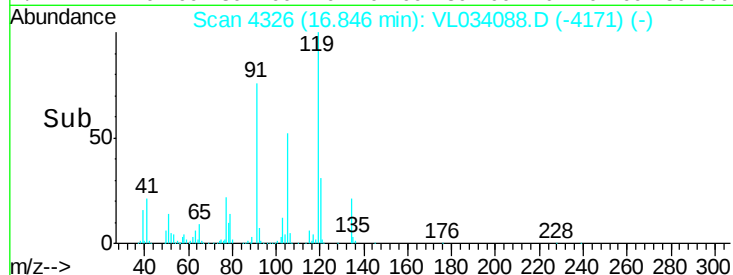
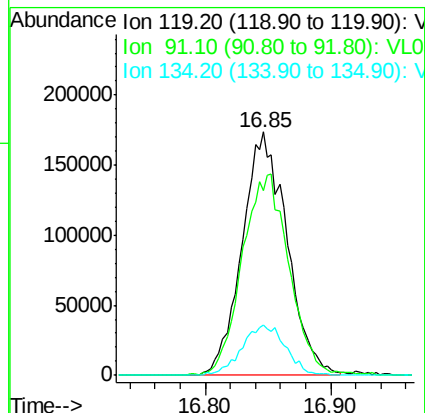
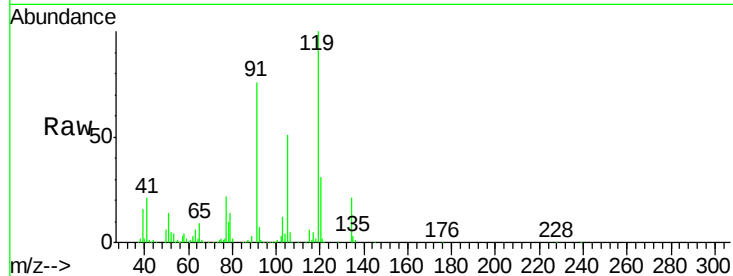
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	431061		
91	86.6	67.6	101.4	
134	20.2	16.0	24.0	

Manual Integrations
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8/8/2019 12:41:15 PM



#66

Benzyl Chloride

Concen: 1.408 ppbv

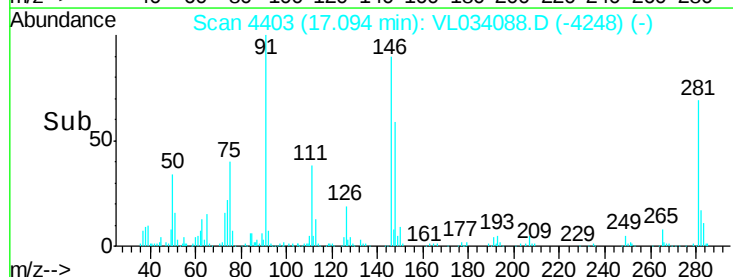
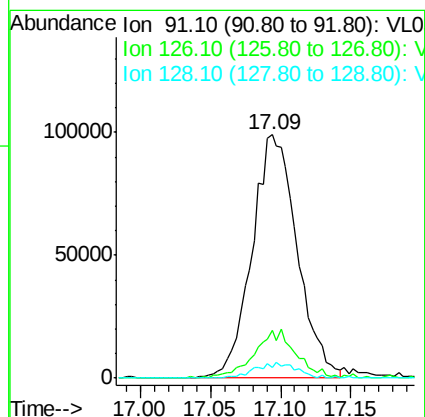
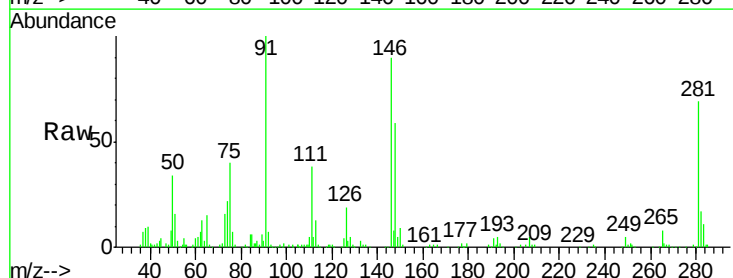
RT: 17.09 min Scan# 4403

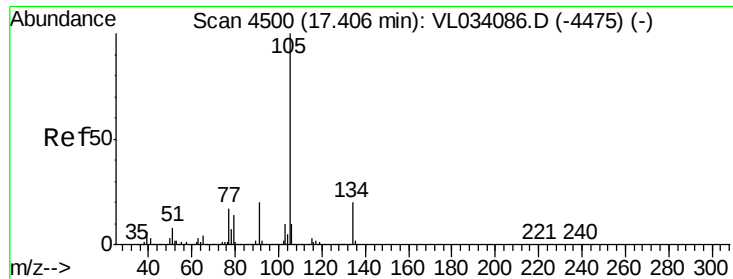
Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	222340		
126	18.2	14.8	22.2	
128	6.0	4.8	7.2	





#67

sec-Butylbenzene

Concen: 1.350 ppbv

RT: 17.40 min Scan# 4497

Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 624781

Ion Ratio Lower Upper

105 100

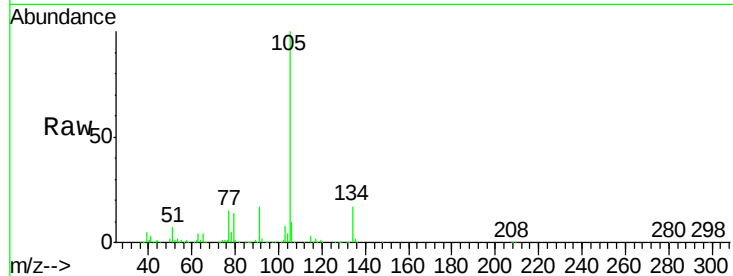
134 17.2 15.4 23.2

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.40

250000

200000

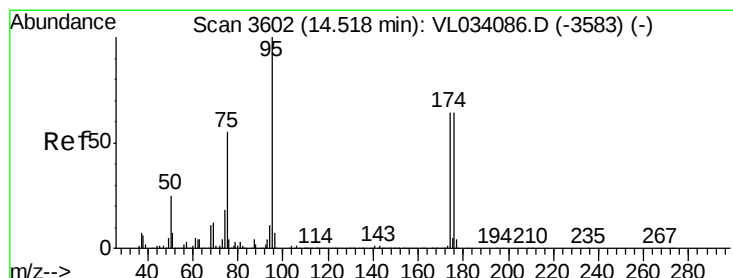
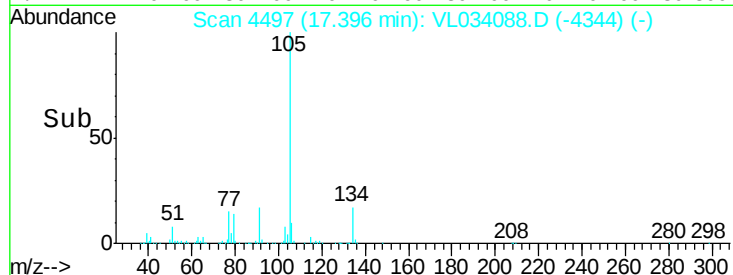
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.085 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

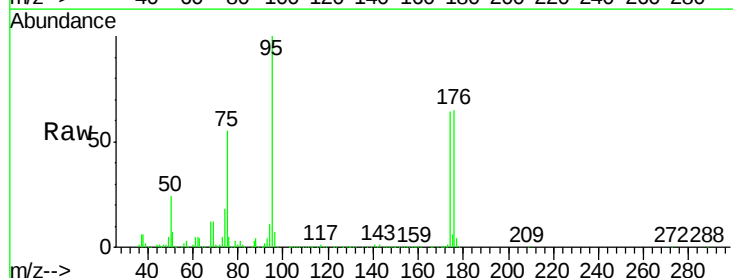
Tgt Ion: 95 Resp: 1856152

Ion Ratio Lower Upper

95 100

174 66.2 53.0 79.6

175 5.2 4.2 6.2



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.52

1000000

800000

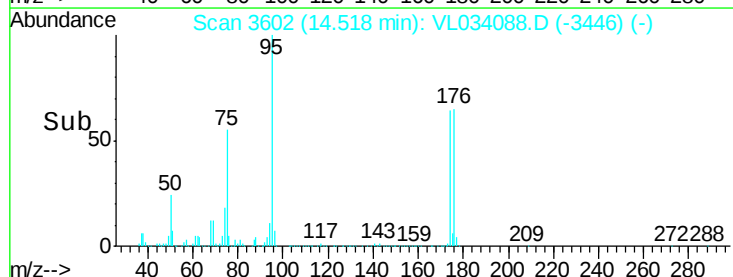
600000

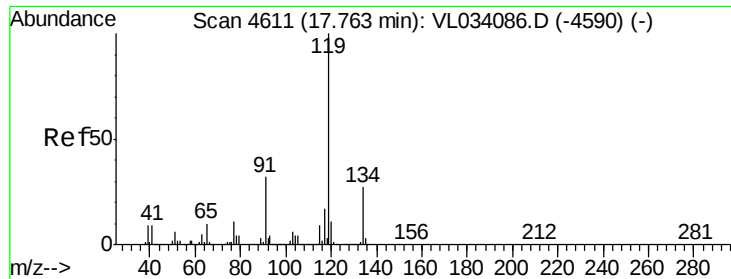
400000

200000

0

Time-->





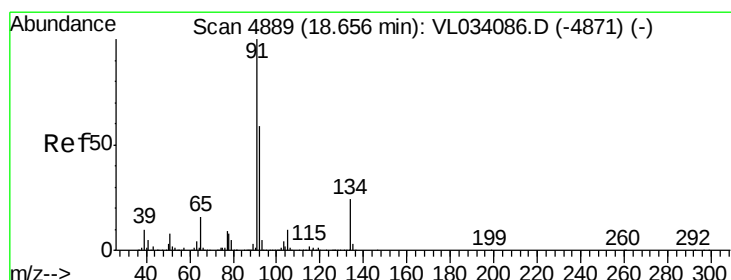
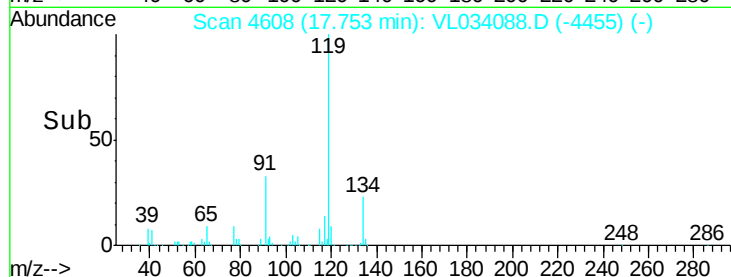
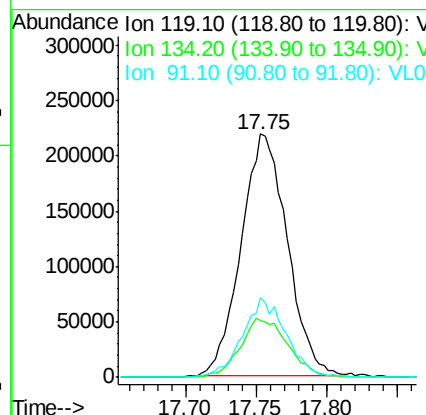
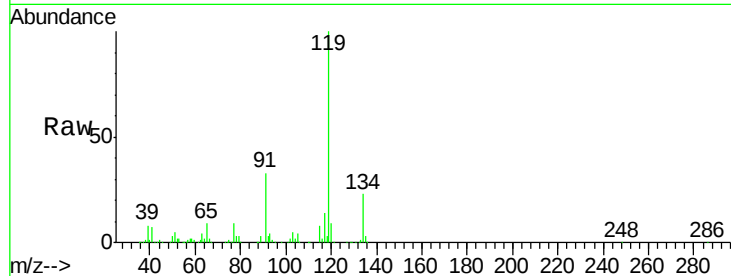
#69
p-Isopropyltoluene
Concen: 1.333 ppbv
RT: 17.75 min Scan# 4608
Delta R.T. -0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	21.3	31.9
91	31.1	25.4	38.0

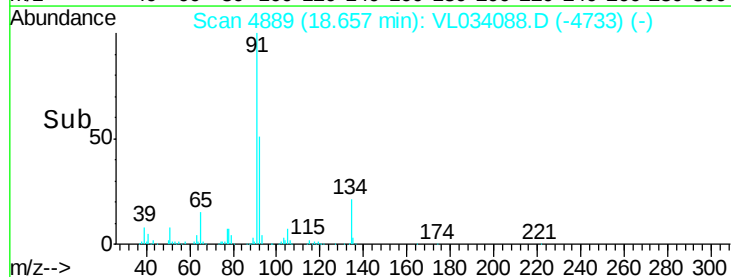
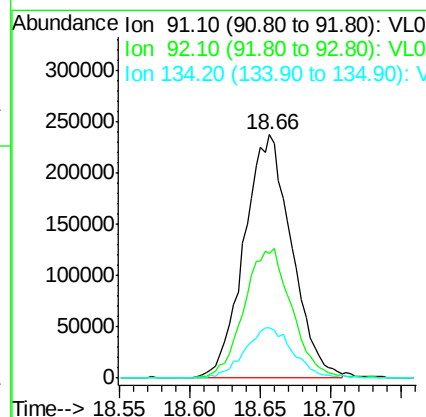
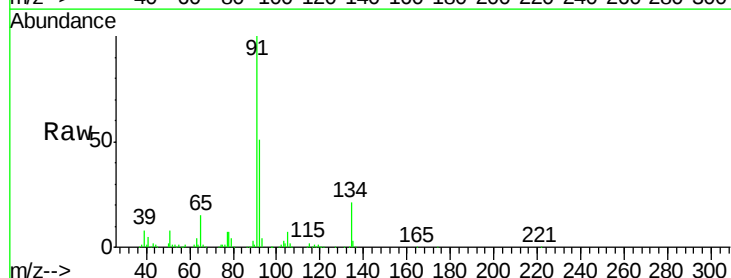
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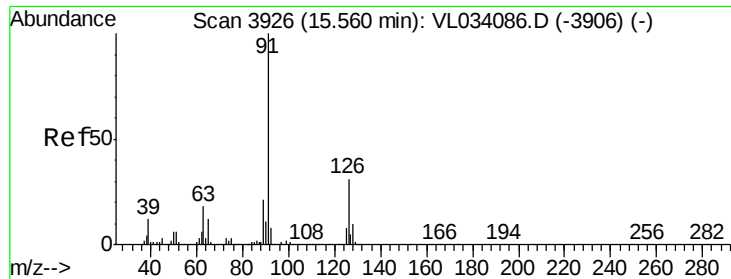
MMDadoda
8/8/2019 12:41:15 PM



#70
n-Butylbenzene
Concen: 1.349 ppbv
RT: 18.66 min Scan# 4889
Delta R.T. 0.00 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	45.9	68.9
134	21.4	19.0	28.4





#71

2-Chlorotoluene

Concen: 1.464 ppbv

RT: 15.56 min Scan# 3925

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 389775

Ion Ratio Lower Upper

91 100

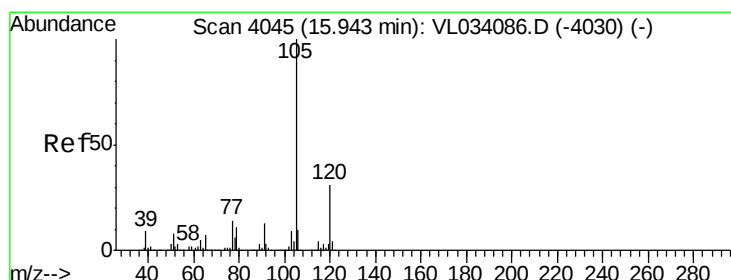
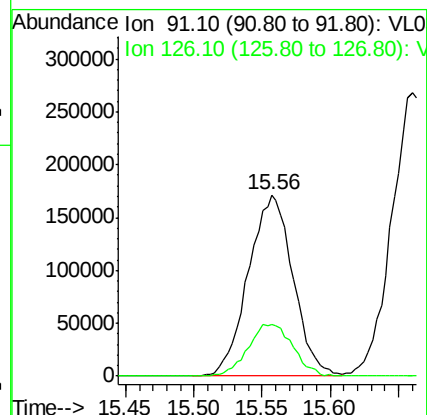
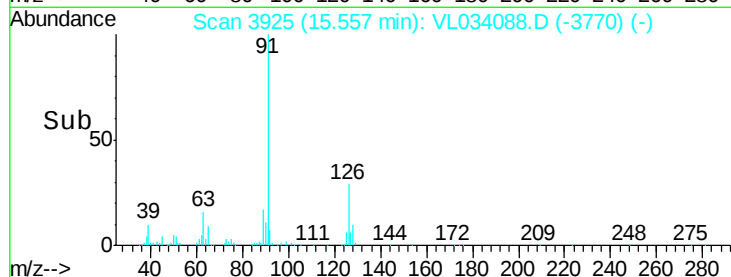
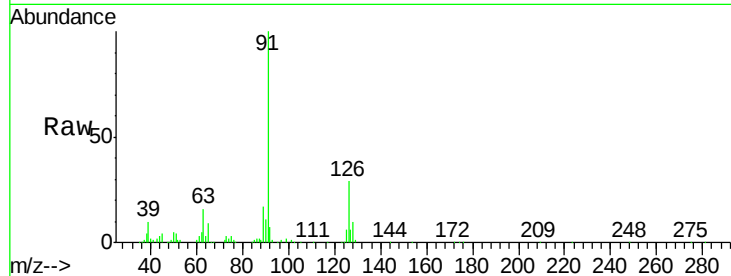
126 28.7 12.2 48.6

Manual Integrations

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8/8/2019 12:41:15 PM



#72

4-Ethyltoluene

Concen: 1.390 ppbv

RT: 15.94 min Scan# 4044

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion: 105 Resp: 426917

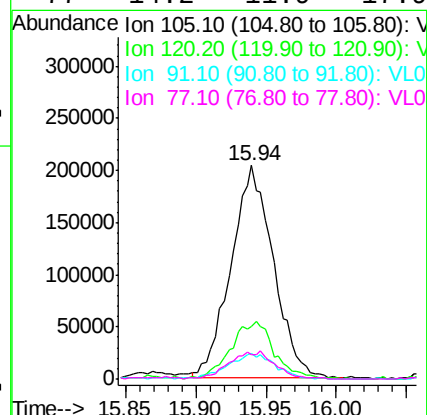
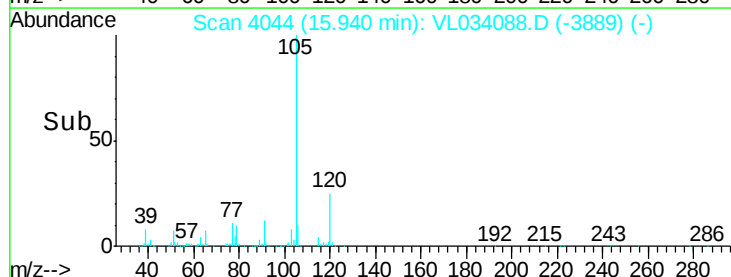
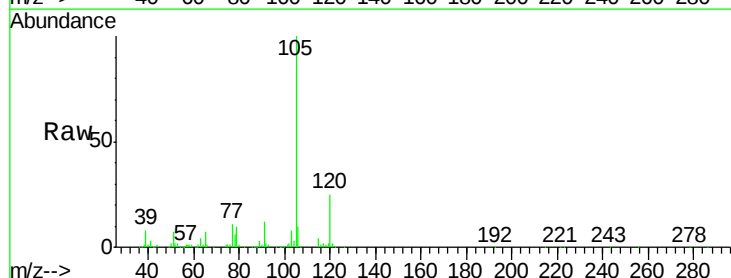
Ion Ratio Lower Upper

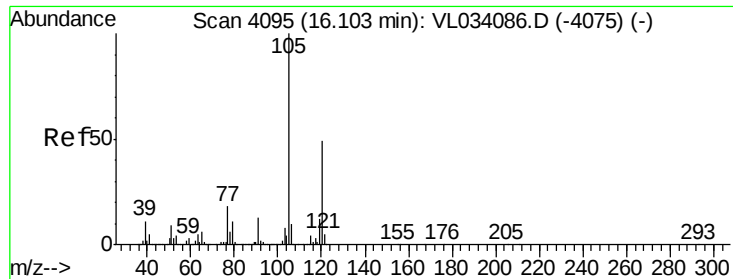
105 100

120 28.0 24.2 36.2

91 13.5 10.5 15.7

77 14.2 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 1.384 ppbv

RT: 16.10 min Scan# 4094

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 418634

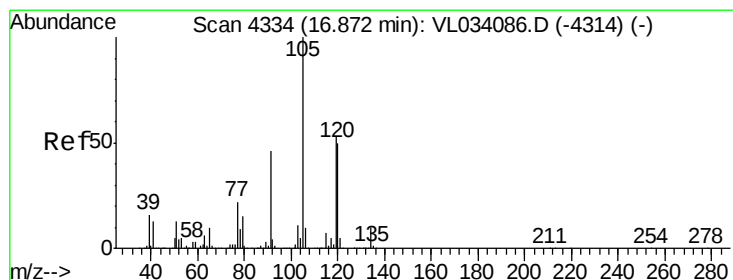
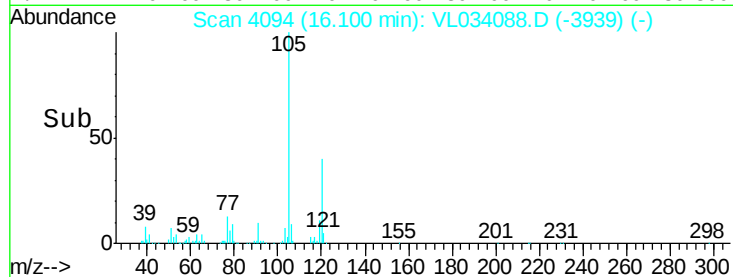
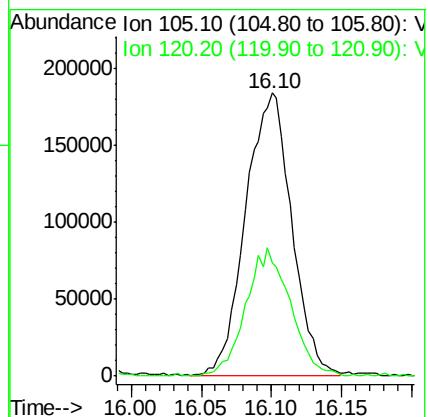
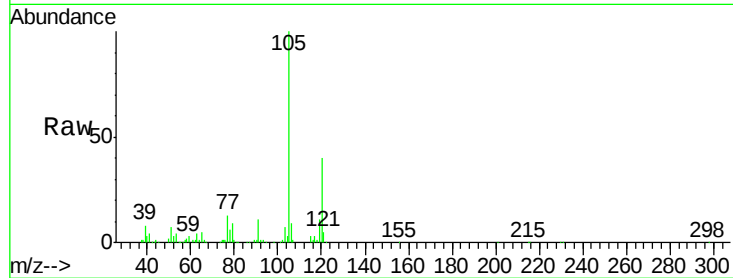
Ion Ratio Lower Upper

105 100

120 40.0 39.0 58.4

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#74

1,2,4-Trimethylbenzene

Concen: 1.288 ppbv

RT: 16.87 min Scan# 4332

Delta R.T. -0.01 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Tgt Ion:105 Resp: 430888

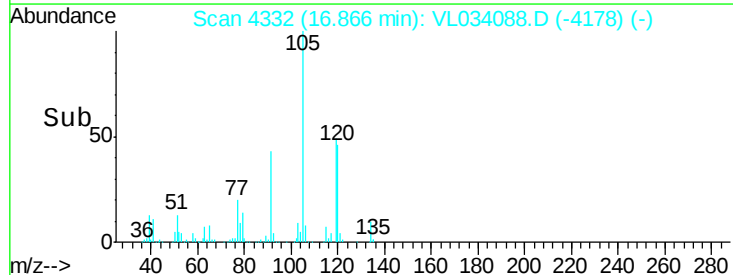
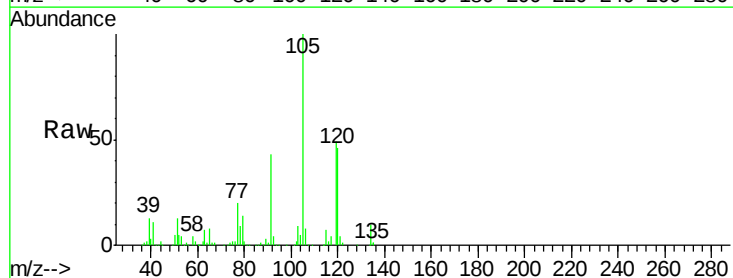
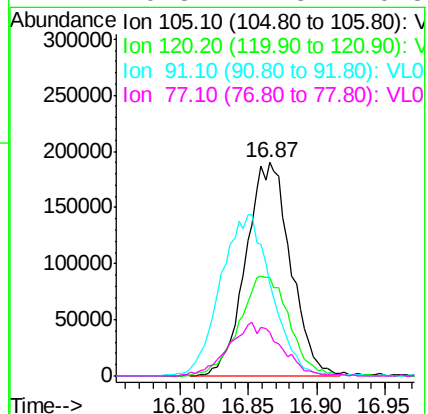
Ion Ratio Lower Upper

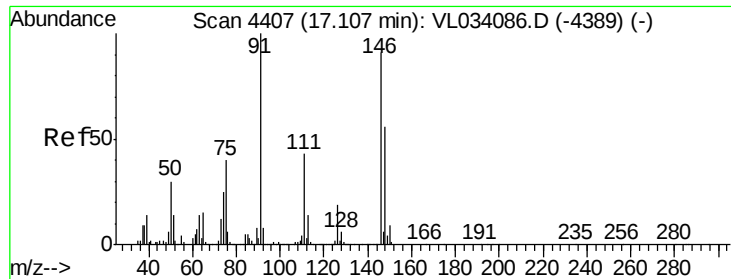
105 100

120 46.1 40.2 60.4

91 42.5 38.1 57.1

77 19.8 17.8 26.8





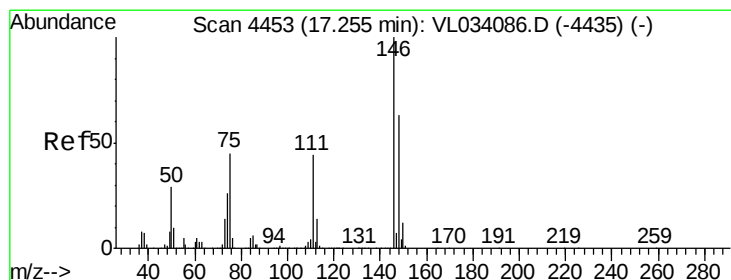
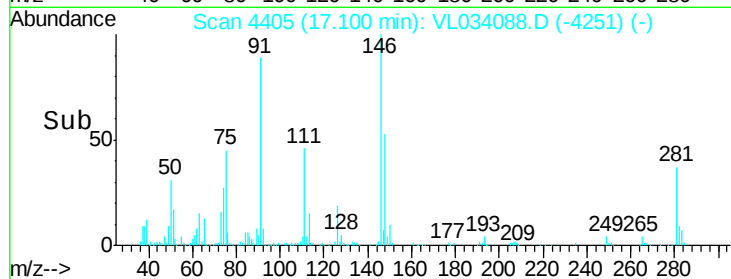
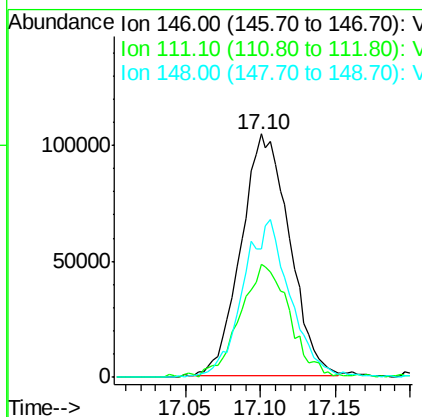
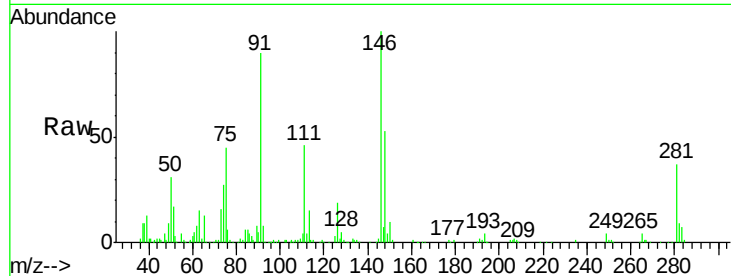
#75
 1,3-Dichlorobenzene
 Concen: 1.188 ppbv
 RT: 17.10 min Scan# 4405
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	23.8	71.5
148	64.0	32.4	97.2

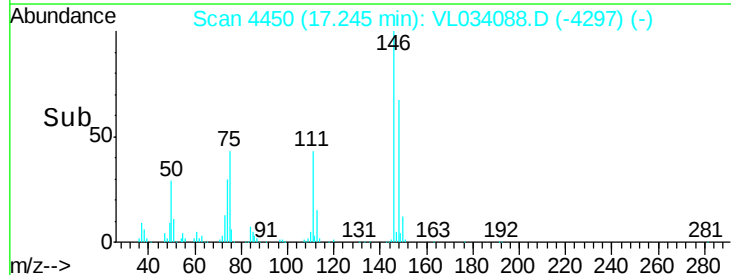
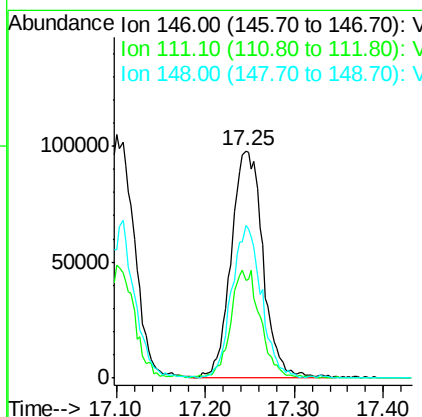
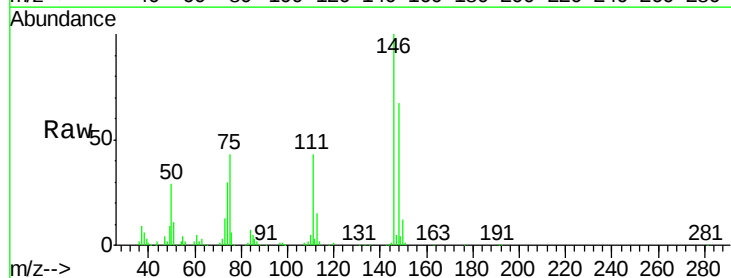
Manual Integrations
 APPROVED

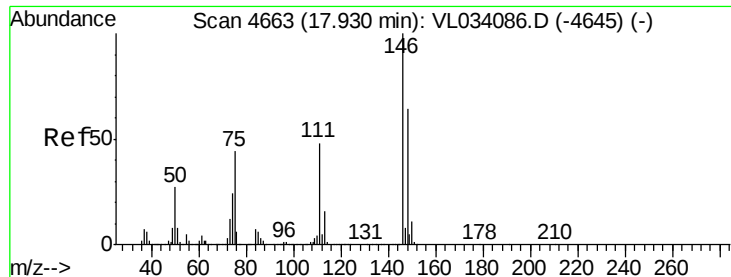
MMDadoda
 8/8/2019 12:41:15 PM



#76
 1,4-Dichlorobenzene
 Concen: 1.307 ppbv m
 RT: 17.25 min Scan# 4450
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	23.2	69.5
148	62.6	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 1.224 ppbv

RT: 17.93 min Scan# 4662

Delta R.T. -0.00 min

Lab File: VL034088.D

Acq: 5 Aug 2019 14:01

Instrument :

MSVOA_L

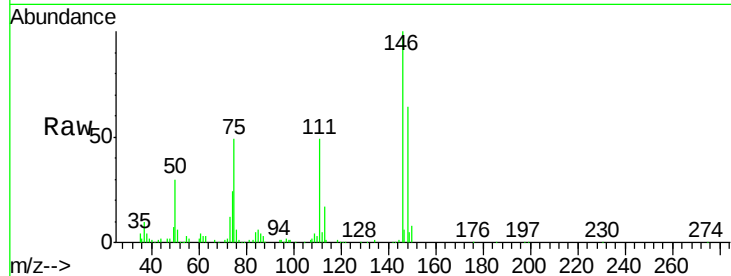
ClientSampleId :

VSTDIC001

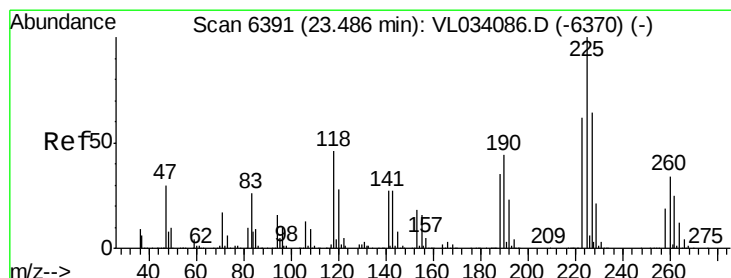
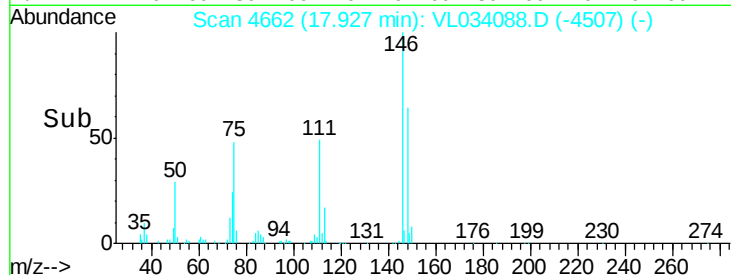
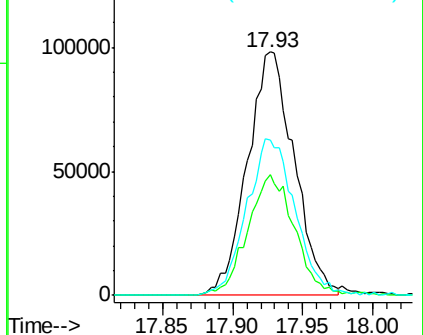
Tot Ion:	146	Resp:	227739
Ion Ratio	Lower	Upper	
146	100		
111	50.0	24.0	72.0
148	66.7	31.9	95.7

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8/8/2019 12:41:15 PM



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



#78

Hexachloro-1,3-Butadiene

Concen: 1.073 ppbv

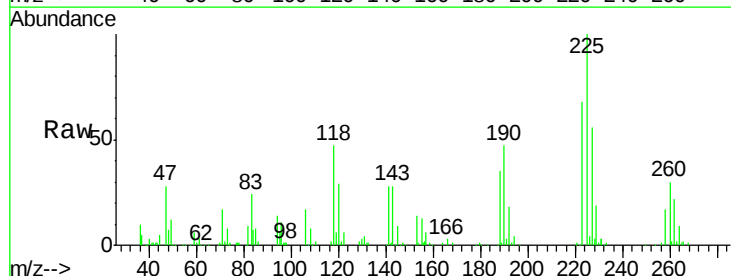
RT: 23.48 min Scan# 6389

Delta R.T. -0.01 min

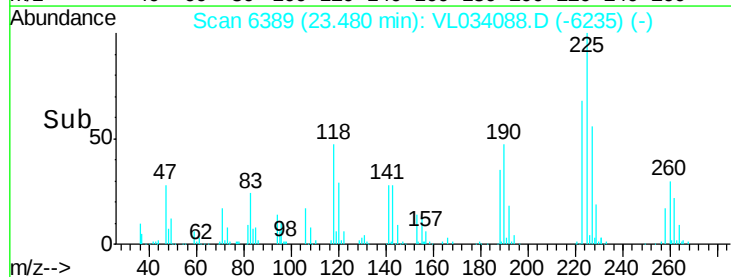
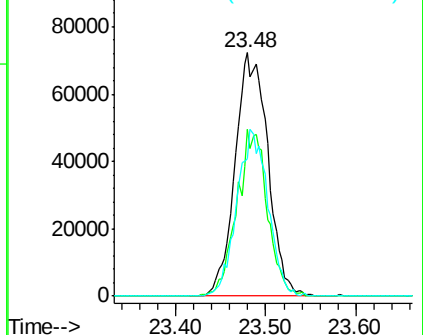
Lab File: VL034088.D

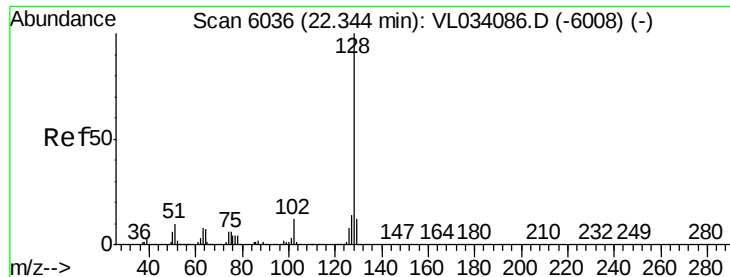
Acq: 5 Aug 2019 14:01

Tgt Ion:	225	Resp:	183171
Ion Ratio	Lower	Upper	
225	100		
223	63.6	50.8	76.2
227	64.8	52.2	78.2



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





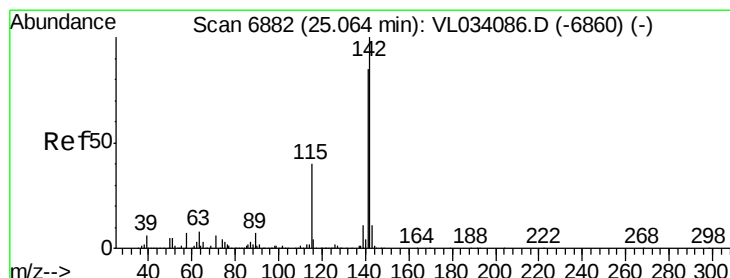
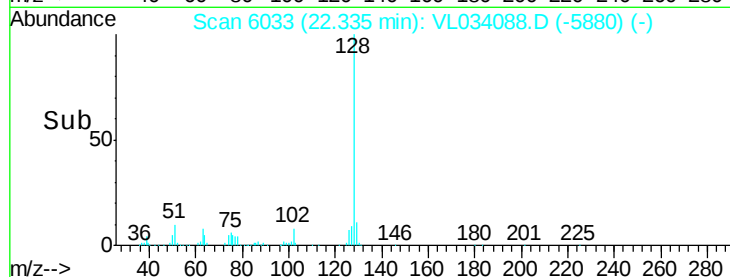
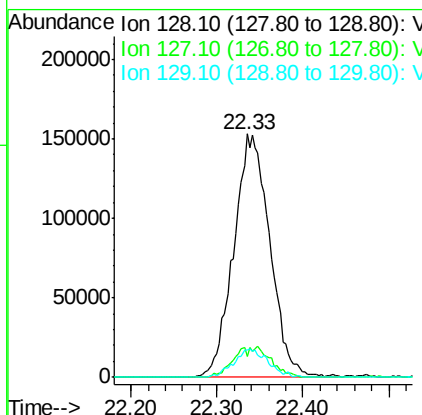
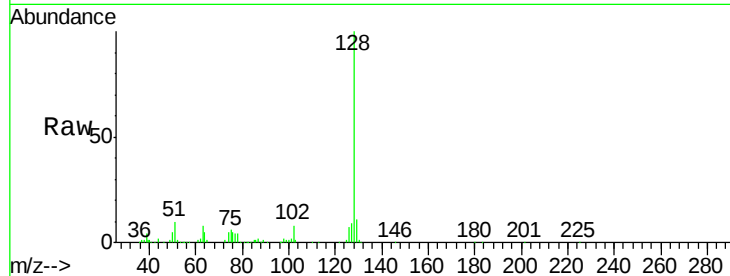
#79
Naphthalene
Concen: 1.491 ppbv m
RT: 22.33 min Scan# 6033
Delta R.T. -0.01 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	8.7	11.0	16.6#
129	11.1	9.2	13.8

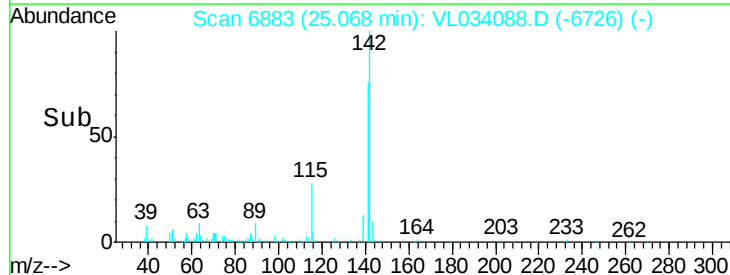
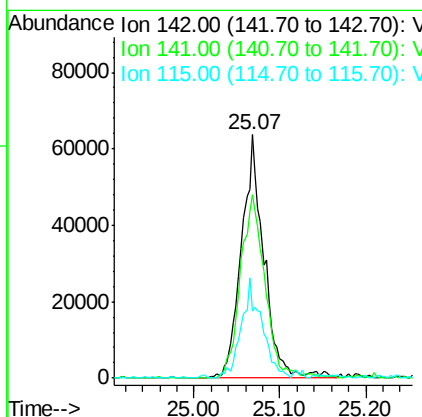
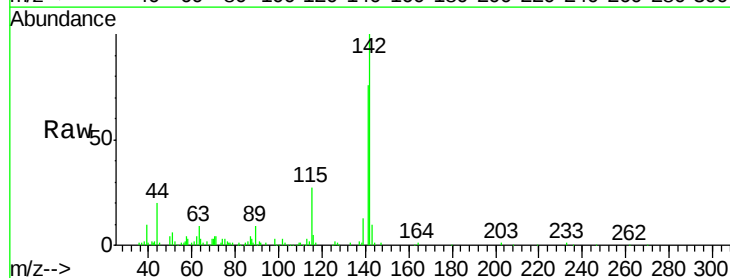
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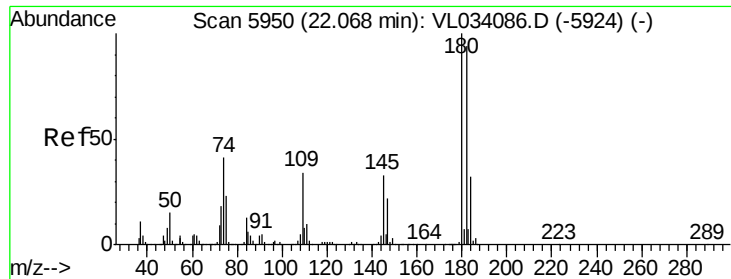
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#80
Naphthalene, 2-methyl-
Concen: 1.009 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. 0.00 min
Lab File: VL034088.D
Acq: 5 Aug 2019 14:01

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.7	66.1	99.1
115	37.1	30.8	46.2





#81
 1,2,4-Trichlorobenzene
 Concen: 1.322 ppbv
 RT: 22.06 min Scan# 5948
 Delta R.T. -0.01 min
 Lab File: VL034088.D
 Acq: 5 Aug 2019 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	245000		
182	96.7		76.7	115.1
184	30.9		25.0	37.4

Manual Integrations
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