

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034089.D
 Acq On : 5 Aug 2019 14:39
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:20 PM

Quant Time: Aug 05 17:11:44 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	1080913	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2194260	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2253513	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	1855485	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	87625	0.425	ppbv	90
3) Chlorodifluoromethane	2.98	51	68657	0.539	ppbv	98
4) Chloromethane	3.14	50	41538	0.565	ppbv	98
5) Vinyl Chloride	3.26	62	37361	0.513	ppbv	94
6) Bromomethane	3.49	94	19282	0.354	ppbv	99
7) Chloroethane	3.57	64	14966	0.426	ppbv #	71
8) Dichlorotetrafluoroethane	3.19	85	84848	0.421	ppbv	92
9) Propene	3.01	41	40125	0.816	ppbv	100
10) Heptane	8.19	43	101600	0.746	ppbv	98
11) Trichlorofluoromethane	3.97	101	88654m	0.429	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.51	101	60925	0.387	ppbv	95
13) Ethanol	3.62	45	14564	0.730	ppbv	96
14) Bromoethene	3.75	108	25793	0.293	ppbv	97
15) Acetone	3.87	43	91046	0.512	ppbv	97
16) 1,3-Butadiene	3.34	39	40397	0.621	ppbv	98
17) tert-Butyl alcohol	4.34	59	81188	0.629	ppbv #	93
18) 1,1-Dichloroethene	4.31	96	29412m	0.427	ppbv	
19) Isopropyl Alcohol	4.00	45	72461m	0.660	ppbv	
20) Methylene Chloride	4.37	84	26114	0.408	ppbv	85
21) Allyl Chloride	4.44	41	57796	0.536	ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	28352	0.404	ppbv	99
23) Vinyl Acetate	5.11	43	139065	0.759	ppbv #	94
24) 1,1-Dichloroethane	5.05	63	84165	0.547	ppbv	99
25) Ethyl Acetate	5.73	43	169394	0.644	ppbv	99
26) Hexane	5.73	57	72162	0.606	ppbv	95
27) Carbon Disulfide	4.58	76	69109	0.390	ppbv #	92
28) Methyl tert-Butyl Ether	5.08	73	119180	0.666	ppbv	99
29) Chloroform	5.80	83	92980	0.449	ppbv	95
30) Cyclohexane	7.19	84	54931m	0.578	ppbv	
31) cis-1,2-Dichloroethene	5.59	61	67118	0.574	ppbv	93
32) 1,1,1-Trichloroethane	6.57	97	87093	0.398	ppbv	97
34) 2-Butanone	5.29	43	110474	0.879	ppbv	100
35) Carbon Tetrachloride	7.08	117	83230	0.469	ppbv	97
36) Benzene	6.95	78	142359	0.681	ppbv #	92
37) 1,2-Dichloroethane	6.36	62	73030	0.535	ppbv #	96
38) Trichloroethene	7.90	130	47695	0.675	ppbv	95
39) 1,2-Dichloropropane	7.68	63	53615m	0.709	ppbv	
40) 1,4-Dioxane	7.94	88	20992m	0.724	ppbv	
41) Tetrahydrofuran	6.12	42	69343m	1.029	ppbv	
42) Bromodichloromethane	7.86	83	98122	0.570	ppbv #	98
43) Methyl Methacrylate	8.09	69	55134	0.764	ppbv	97

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

44) 2,2,4-Trimethylpentane	7.93	57	260715m	0.835	ppbv	
45) t-1,3-Dichloropropene	9.35	75	66286m	0.743	ppbv	
46) cis-1,3-Dichloropropene	8.78	75	77495	0.749	ppbv #	92
47) 1,1,2-Trichloroethane	9.55	97	50180	0.616	ppbv	95
48) Dibromochloromethane	10.39	129	80413	0.583	ppbv	99
49) Bromoform	13.14	173	68767	0.576	ppbv	98
50) 4-Methyl-2-Pentanone	8.83	43	174196	0.933	ppbv	94
51) 2-Hexanone	10.24	43	146498m	1.018	ppbv	
52) Tetrachloroethene	11.31	164	49636m	0.813	ppbv	
53) Toluene	9.89	91	157375	0.757	ppbv	100
54) 1,2-Dibromoethane	10.70	107	78514	0.649	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.22	131	56867	0.572	ppbv #	1
57) Chlorobenzene	12.24	112	119530	0.650	ppbv	97
58) Ethyl Benzene	12.80	91	223667	0.752	ppbv	91
59) m/p-Xylene	13.06	91	363508m	1.368	ppbv	
60) o-Xylene	13.79	91	179952	0.674	ppbv	100
61) Styrene	13.62	104	139512	0.798	ppbv	97
62) Isopropylbenzene	14.76	105	241662	0.689	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.78	83	127673m	0.607	ppbv	
64) n-propylbenzene	15.67	120	61788m	0.697	ppbv	
65) tert-Butylbenzene	16.84	119	219155m	0.696	ppbv	
66) Benzyl Chloride	17.09	91	96080m	0.624	ppbv	
67) sec-Butylbenzene	17.40	105	309346	0.686	ppbv	95
69) p-Isopropyltoluene	17.76	119	259182	0.706	ppbv	95
70) n-Butylbenzene	18.65	91	277041m	0.691	ppbv	
71) 2-Chlorotoluene	15.55	91	195160	0.752	ppbv	97
72) 4-Ethyltoluene	15.94	105	205023	0.685	ppbv	97
73) 1,3,5-Trimethylbenzene	16.09	105	196383	0.666	ppbv	87
74) 1,2,4-Trimethylbenzene	16.86	105	217361	0.667	ppbv	95
75) 1,3-Dichlorobenzene	17.10	146	119436m	0.619	ppbv	
76) 1,4-Dichlorobenzene	17.25	146	118731	0.651	ppbv	97
77) 1,2-Dichlorobenzene	17.93	146	115092	0.635	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	93112m	0.560	ppbv	
79) Naphthalene	22.34	128	215284m	0.737	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	56296	0.502	ppbv	95
81) 1,2,4-Trichlorobenzene	22.06	180	124443m	0.689	ppbv	

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

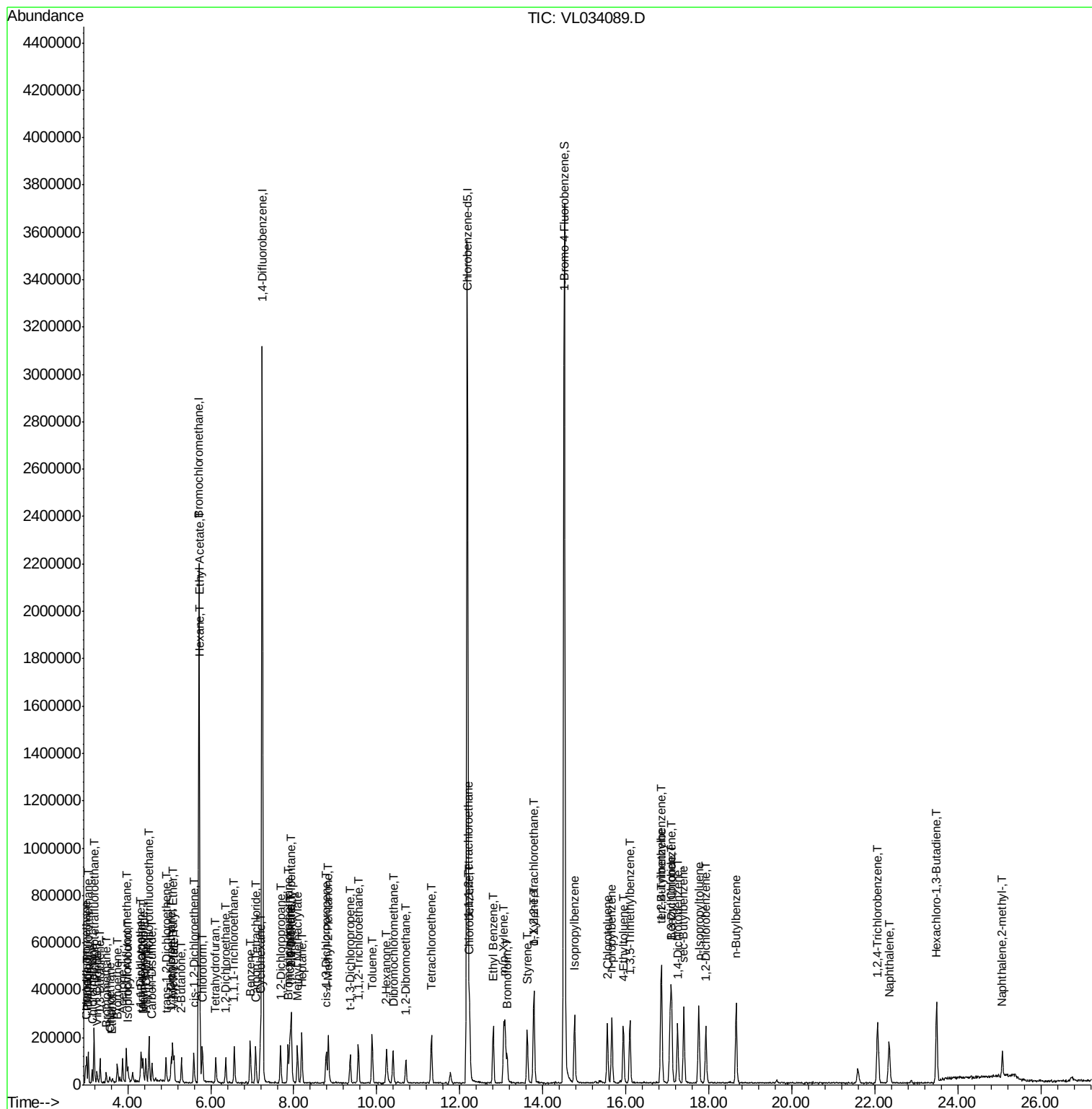
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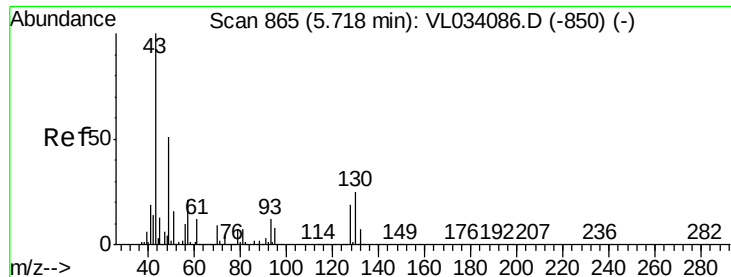
Instrument :
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QLast Update : Mon Aug 05 13:52:58 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1080913

Ion Ratio Lower Upper

49 100

128 40.5 19.5 58.5

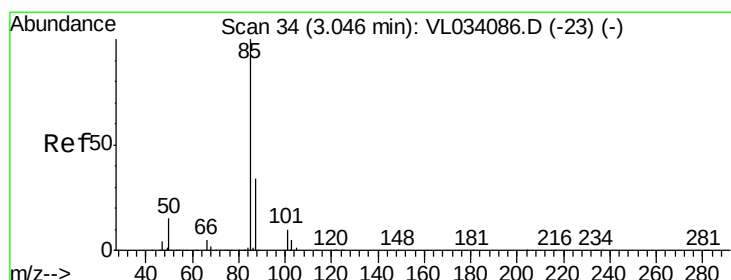
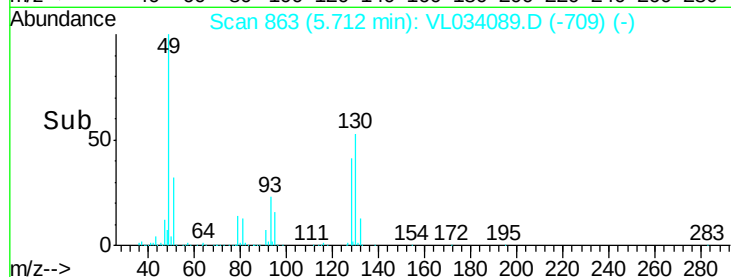
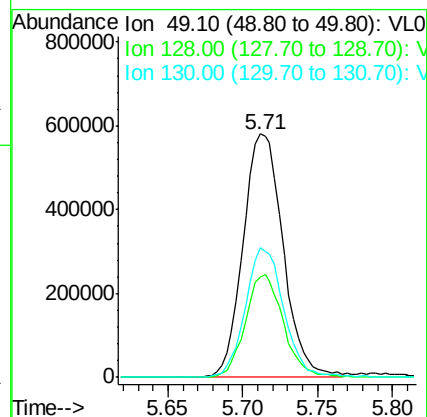
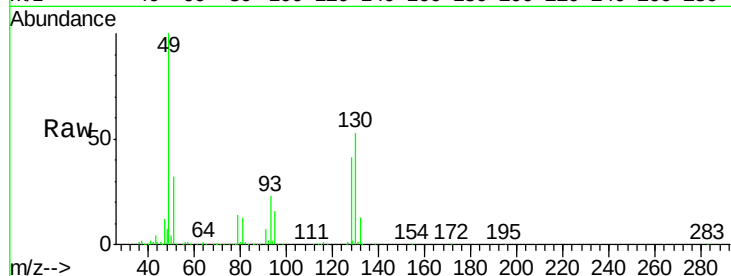
130 51.4 25.4 76.0

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.425 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034089.D

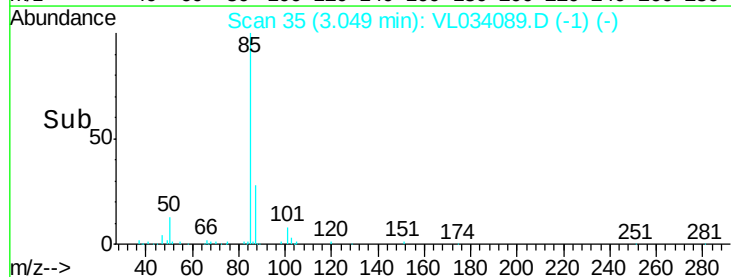
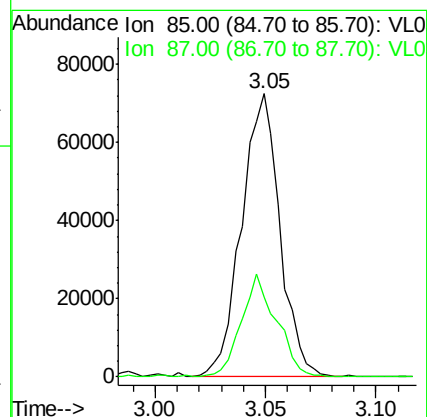
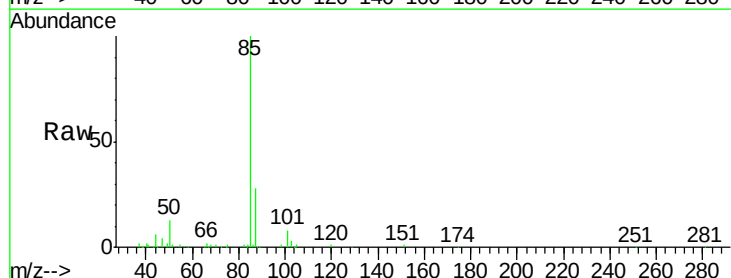
Acq: 5 Aug 2019 14:39

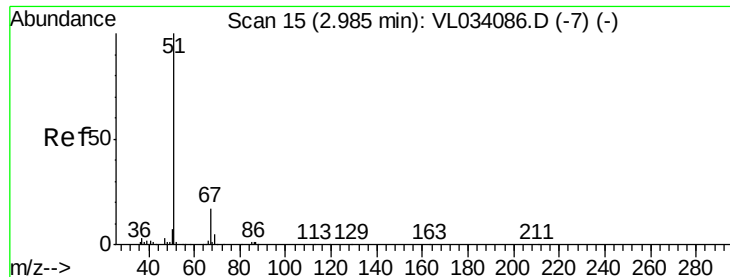
Tgt Ion: 85 Resp: 87625

Ion Ratio Lower Upper

85 100

87 28.3 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.539 ppbv

RT: 2.98 min Scan# 15

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tot Ion: 51 Resp: 68657

Ion Ratio Lower Upper

51 100

67 15.6 13.3 19.9

Instrument :

MSVOA_L

ClientSampleId :

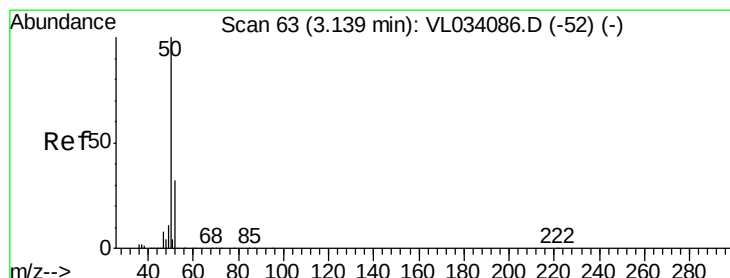
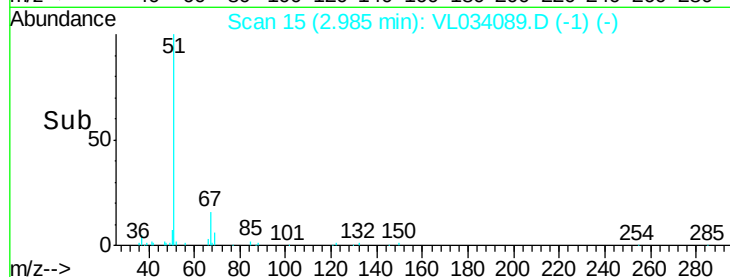
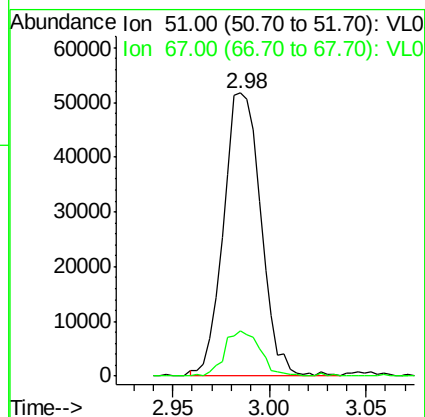
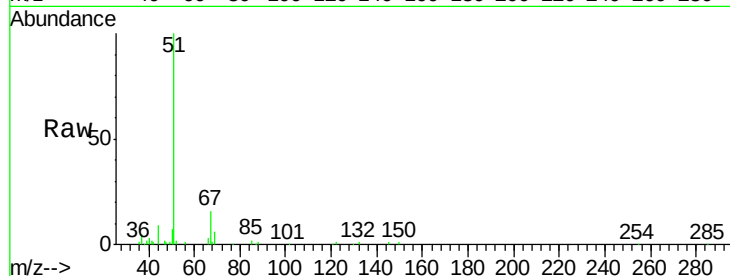
VSTDIC0.5

Manual Integrations

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#4

Chloromethane

Concen: 0.565 ppbv

RT: 3.14 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034089.D

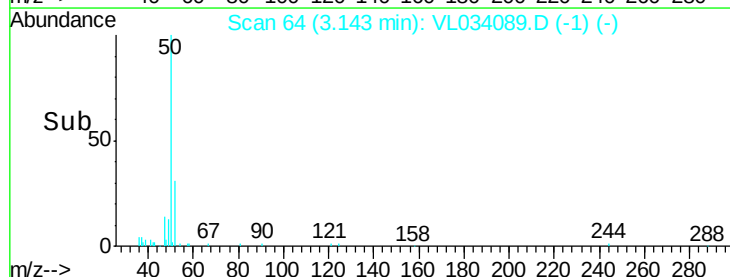
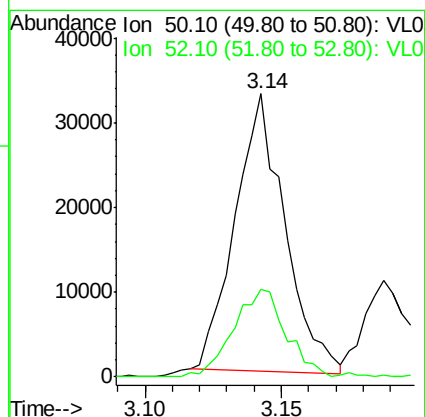
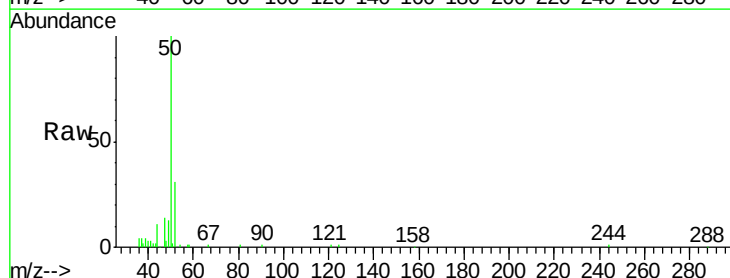
Acq: 5 Aug 2019 14:39

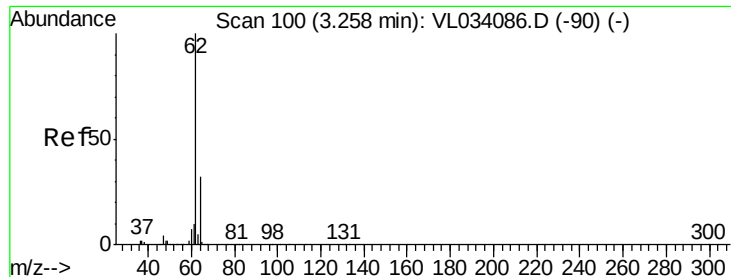
Tgt Ion: 50 Resp: 41538

Ion Ratio Lower Upper

50 100

52 30.9 25.7 38.5





#5

Vinyl Chloride

Concen: 0.513 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 37361

Ion Ratio Lower Upper

62 100

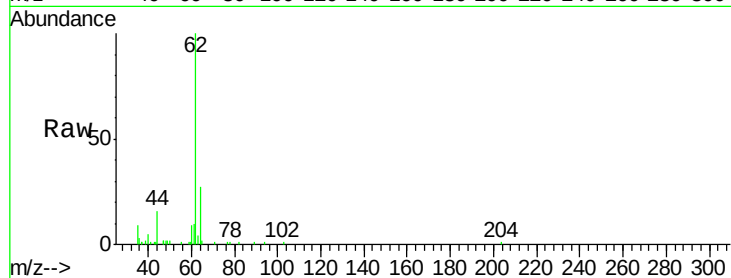
64 28.8 25.8 38.6

Manual Integrations

APPROVED

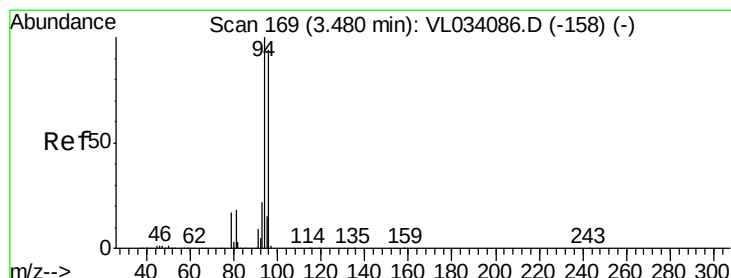
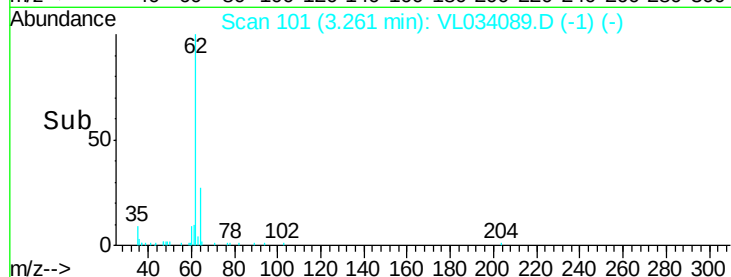
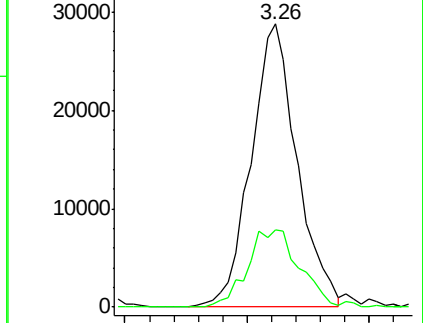
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.354 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034089.D

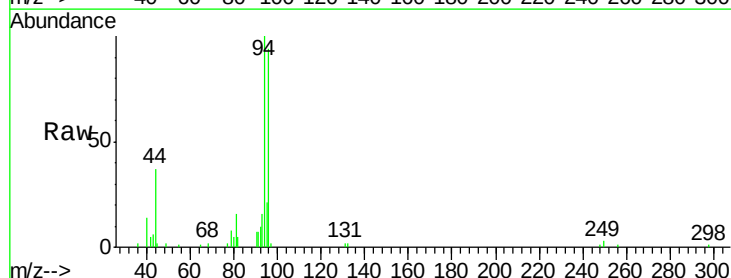
Acq: 5 Aug 2019 14:39

Tgt Ion: 94 Resp: 19282

Ion Ratio Lower Upper

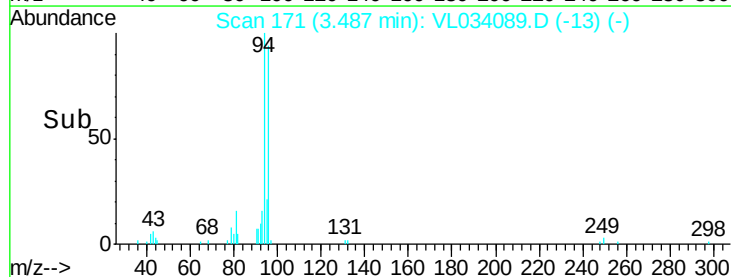
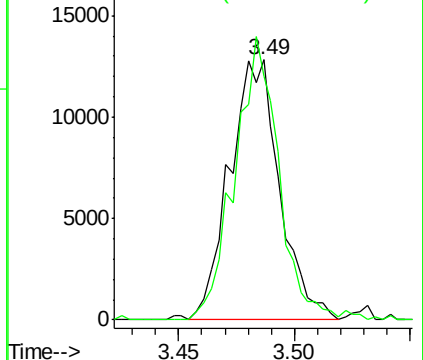
94 100

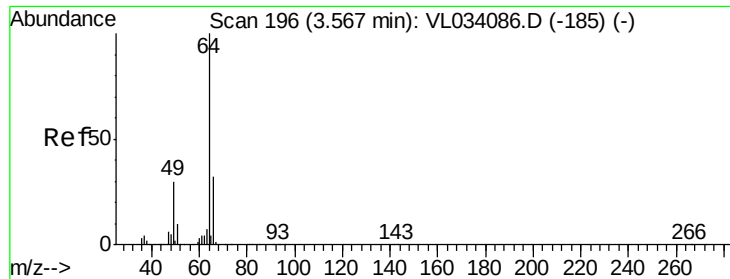
96 93.5 75.3 112.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.426 ppbv

RT: 3.57 min Scan# 197

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

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ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 14966

Ion Ratio Lower Upper

64 100

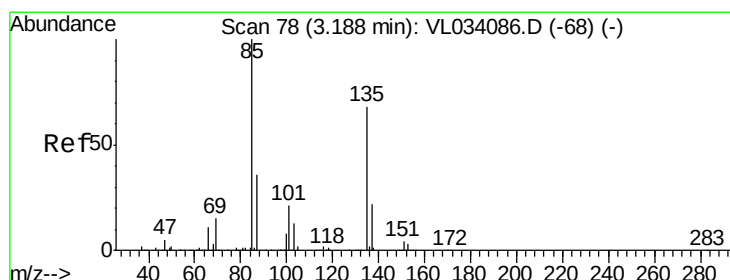
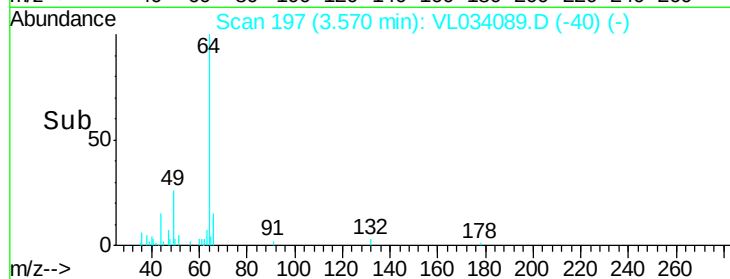
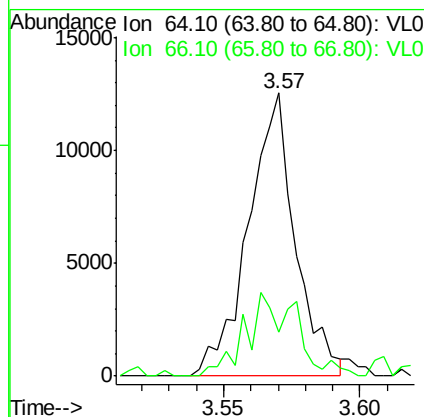
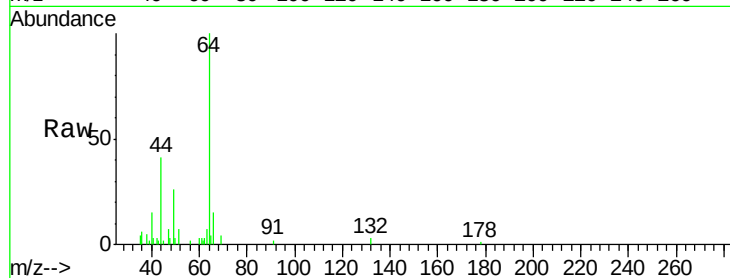
66 15.4 25.2 37.8#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.421 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034089.D

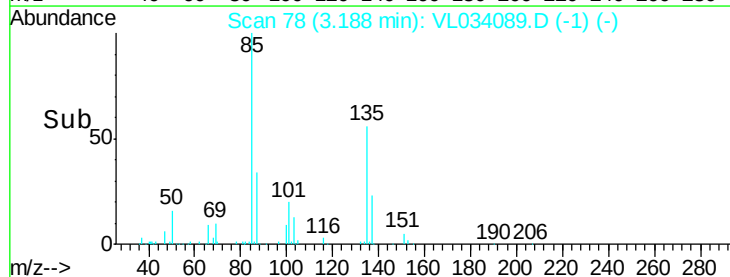
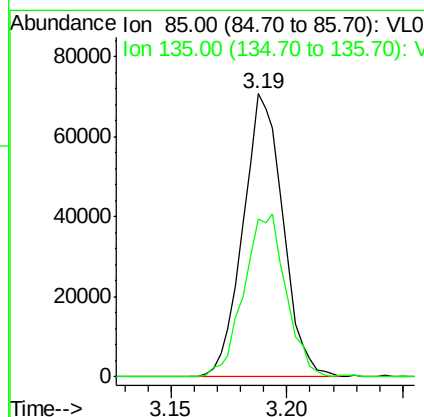
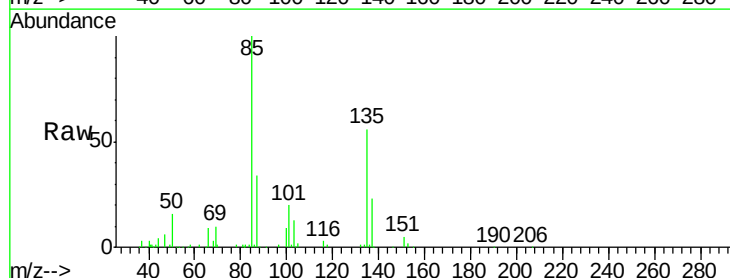
Acq: 5 Aug 2019 14:39

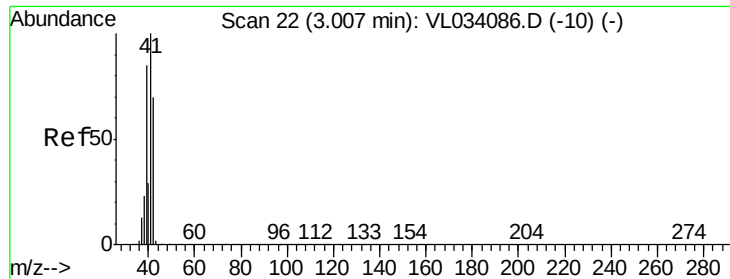
Tgt Ion: 85 Resp: 84848

Ion Ratio Lower Upper

85 100

135 60.9 54.0 81.0





#9

Propene

Concen: 0.816 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 40125

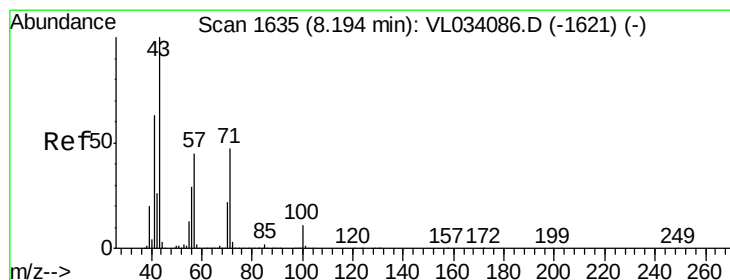
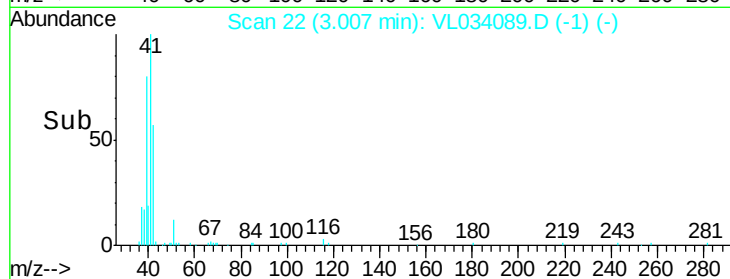
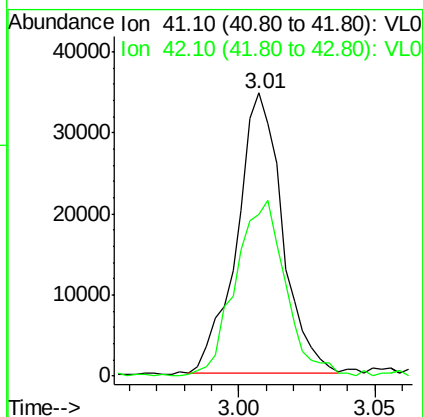
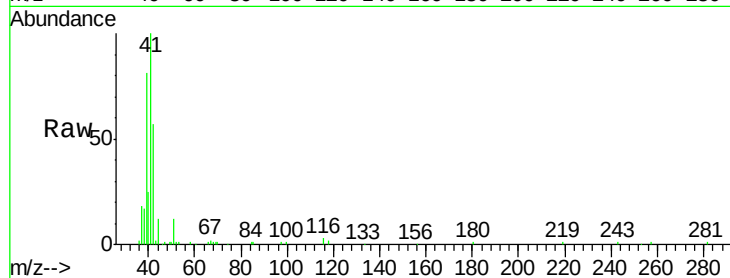
Ion Ratio Lower Upper

41 100

42 69.6 55.8 83.6

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#10

Heptane

Concen: 0.746 ppbv

RT: 8.19 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VL034089.D

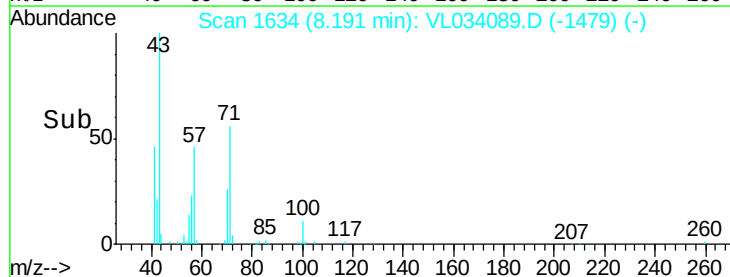
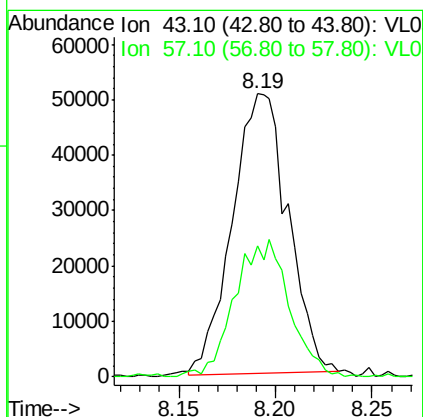
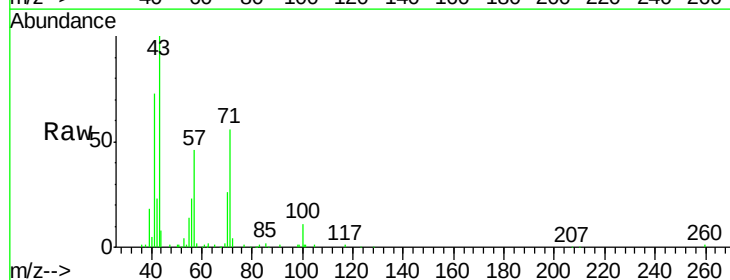
Acq: 5 Aug 2019 14:39

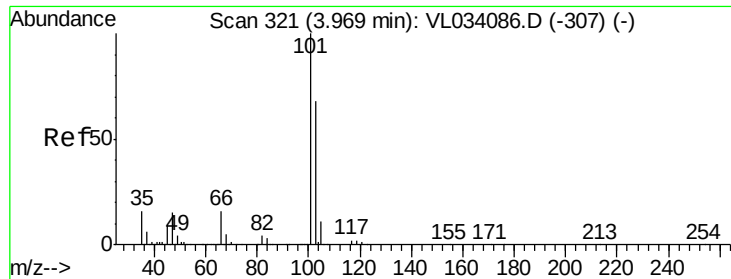
Tgt Ion: 43 Resp: 101600

Ion Ratio Lower Upper

43 100

57 48.0 37.2 55.8





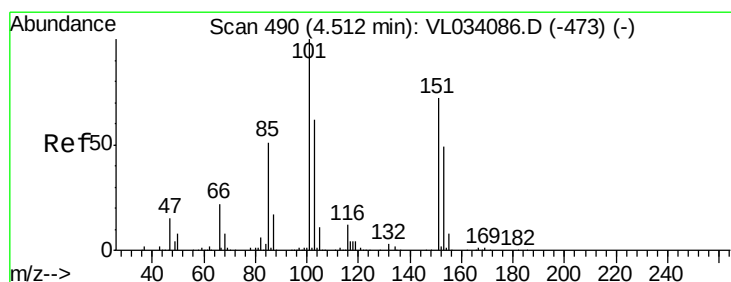
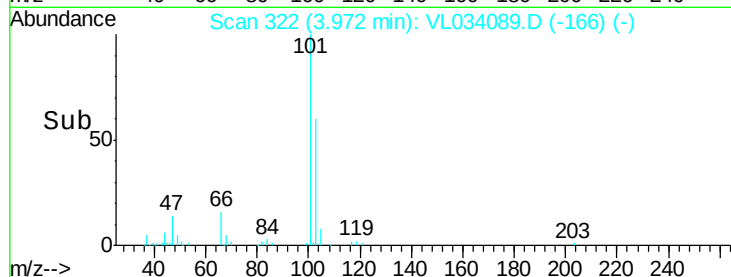
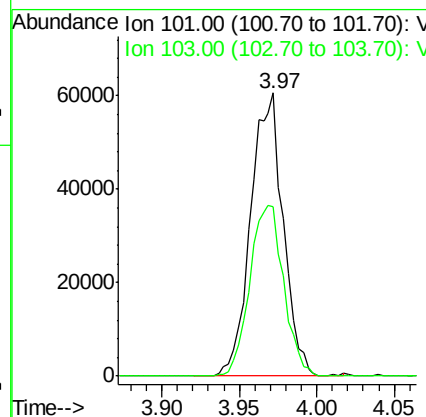
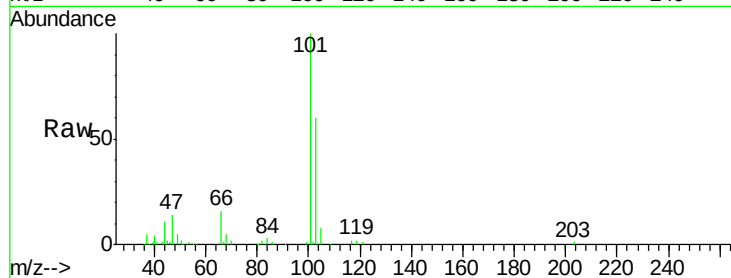
#11
 Trichlorofluoromethane
 Concen: 0.429 ppbv m
 RT: 3.97 min Scan# 322
 Delta R.T. 0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.0	54.3	81.5

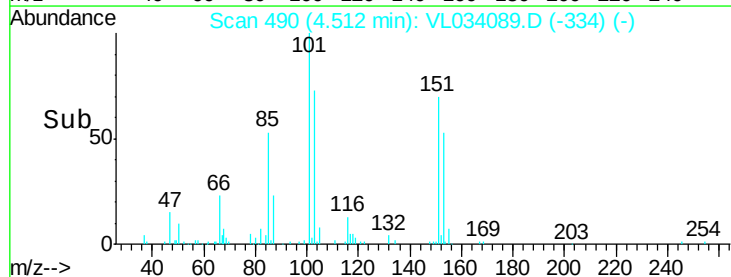
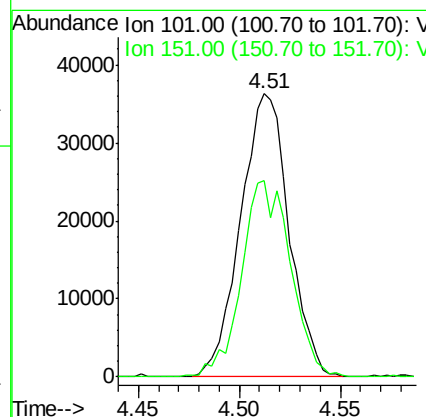
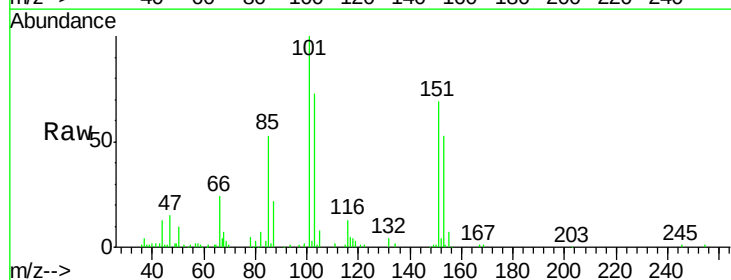
Manual Integrations
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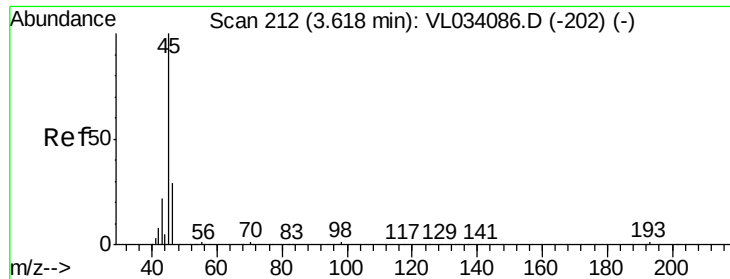
MMDadoda
 8/8/2019 12:41:20 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.387 ppbv
 RT: 4.51 min Scan# 490
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
101	100		
151	70.2	59.4	89.0





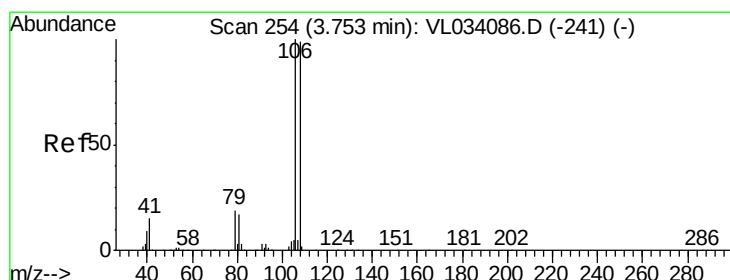
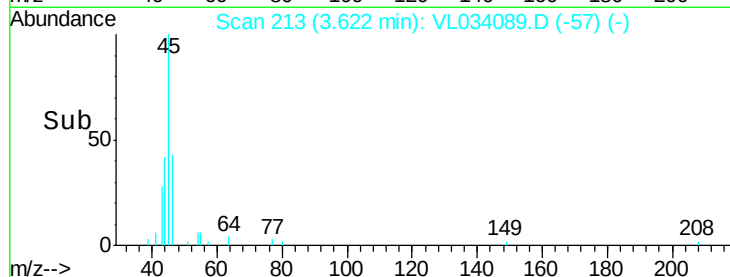
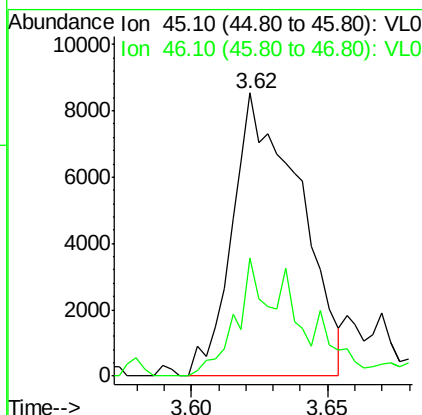
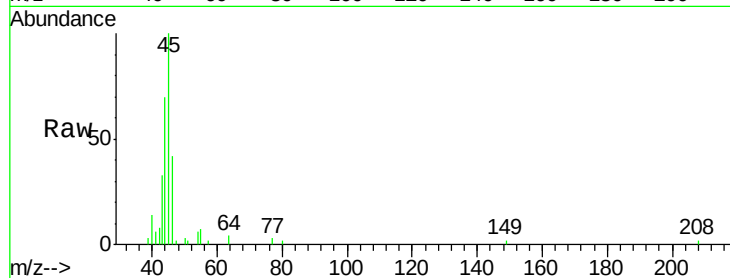
#13
Ethanol
Concen: 0.730 ppbv
RT: 3.62 min Scan# 213
Delta R.T. 0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	45	Ratio	Lower	Upper
45	100			
46	39.8		14.9	59.5

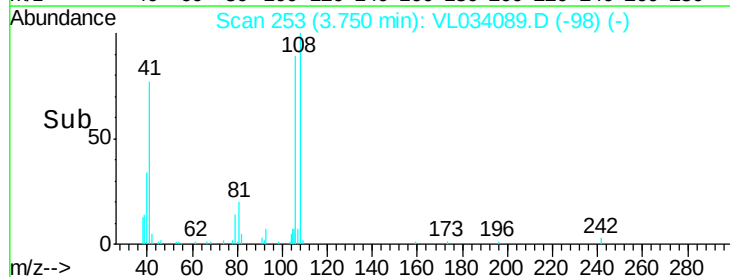
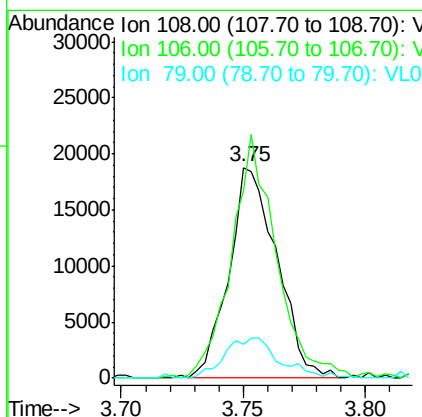
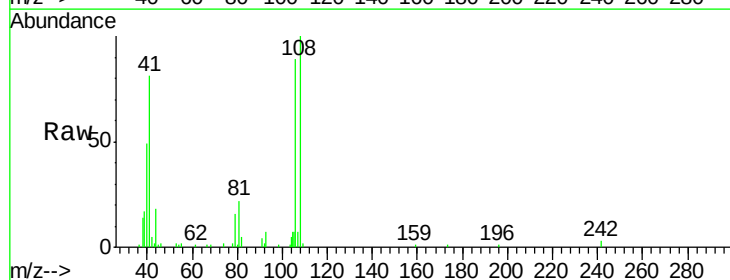
Manual Integrations
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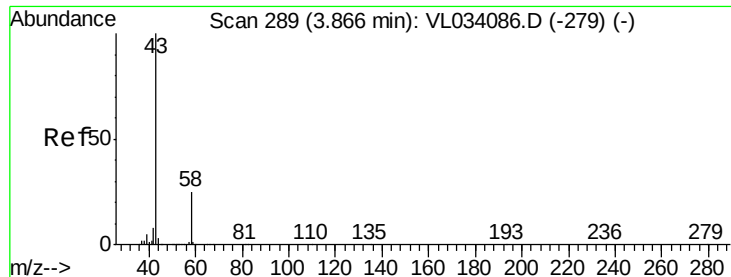
MMDadoda
8/8/2019 12:41:20 PM



#14
Bromoethene
Concen: 0.293 ppbv
RT: 3.75 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	108	Ratio	Lower	Upper
108	100			
106	108.9		85.0	127.6
79	22.4		15.8	23.8





#15

Acetone

Concen: 0.512 ppbv

RT: 3.87 min Scan# 291

Delta R.T. 0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 91046

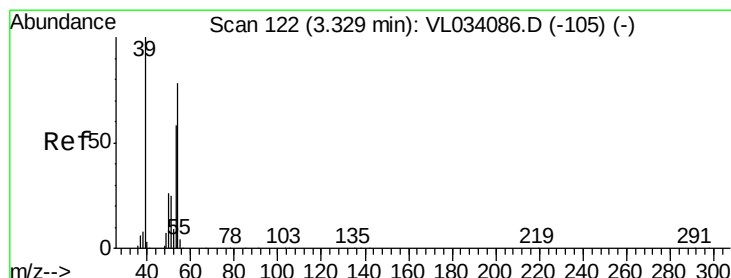
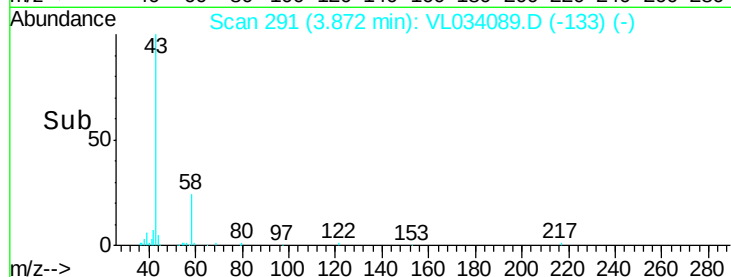
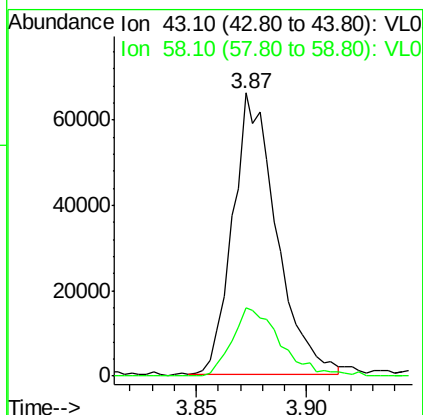
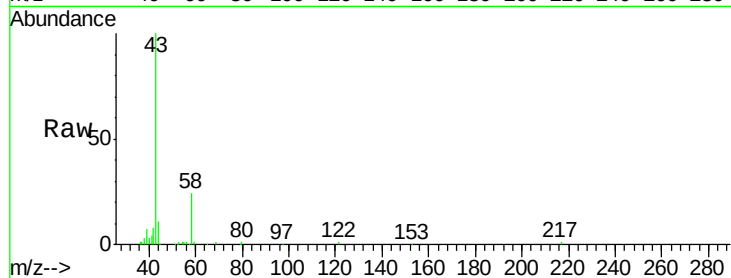
Ion Ratio Lower Upper

43 100

58 27.0 20.6 30.8

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#16

1,3-Butadiene

Concen: 0.621 ppbv

RT: 3.34 min Scan# 124

Delta R.T. 0.01 min

Lab File: VL034089.D

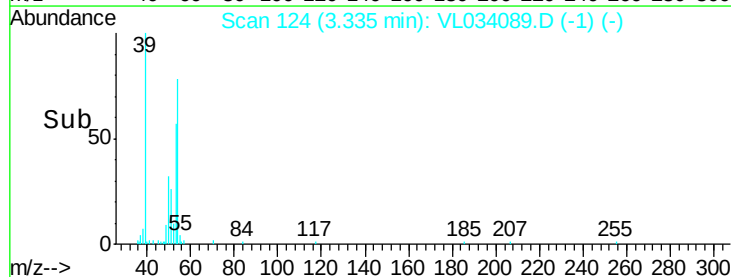
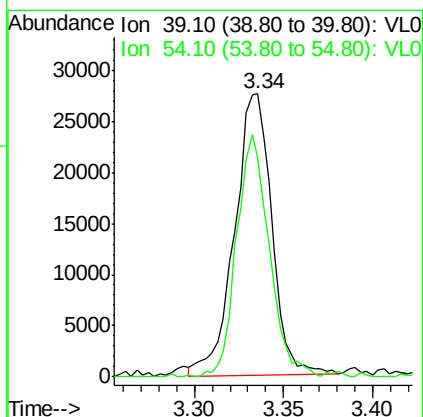
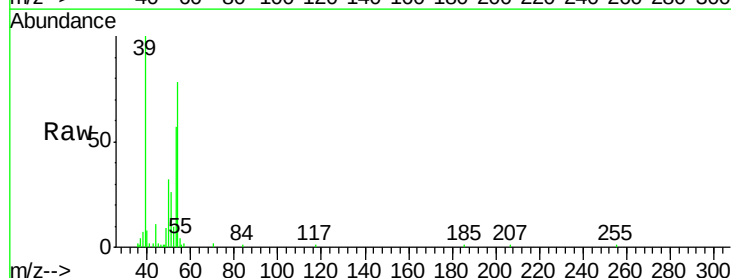
Acq: 5 Aug 2019 14:39

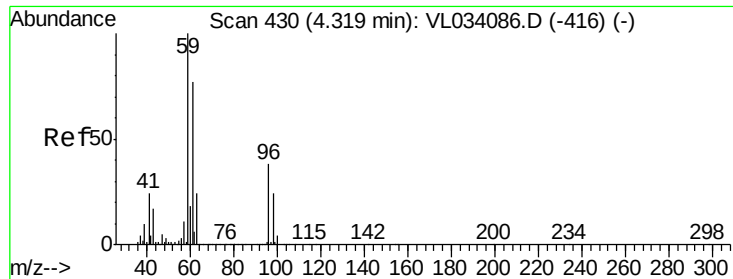
Tgt Ion: 39 Resp: 40397

Ion Ratio Lower Upper

39 100

54 76.5 62.7 94.1





#17

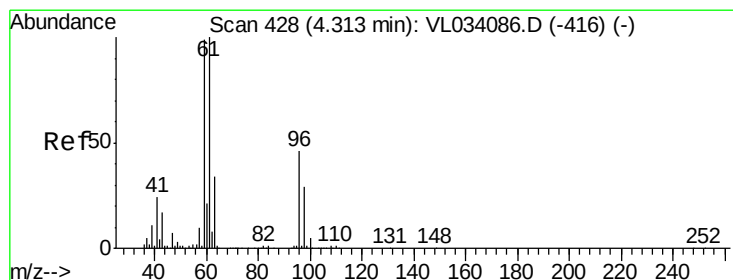
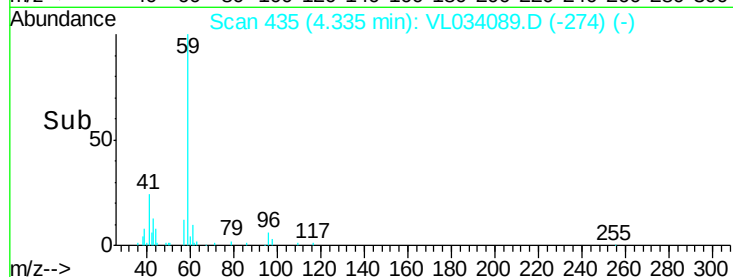
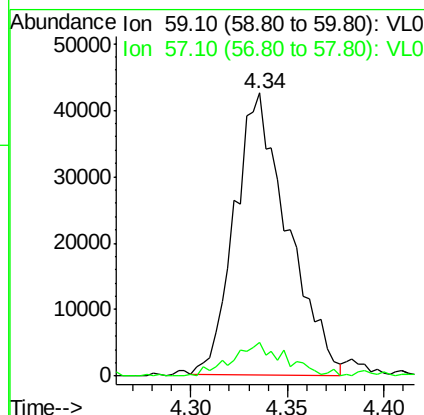
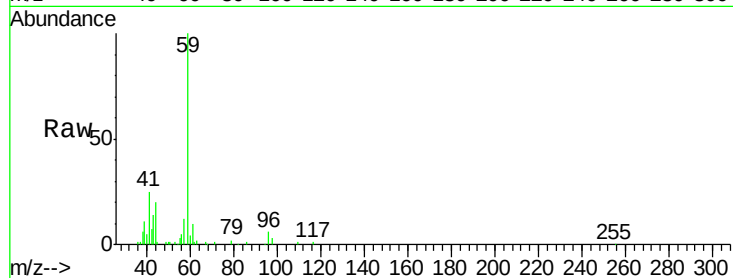
tert-Butyl alcohol
 Concen: 0.629 ppbv
 RT: 4.34 min Scan# 435
 Delta R.T. 0.02 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	59.10	Resp	81188
Ion Ratio	Lower	Upper	
59	100		
57	13.0	8.4	12.6#

Manual Integrations
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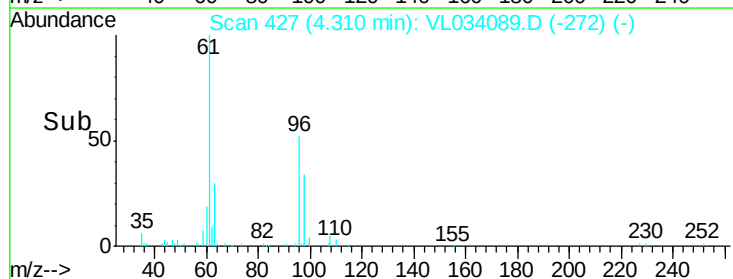
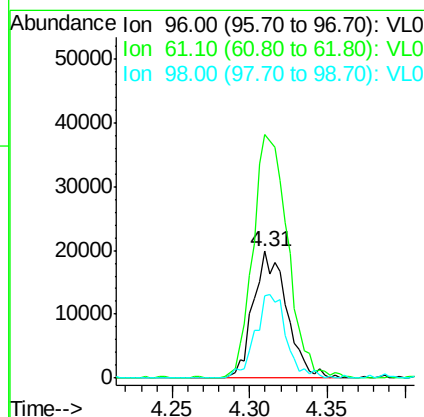
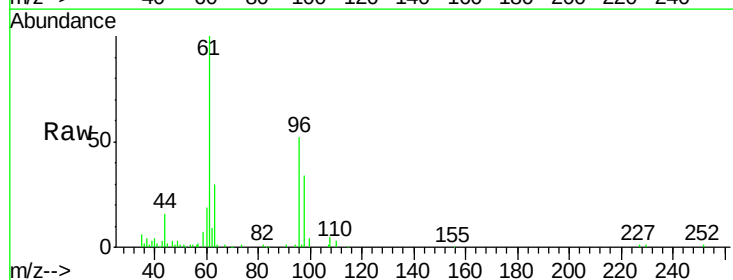
MMDadoda
 8/8/2019 12:41:20 PM

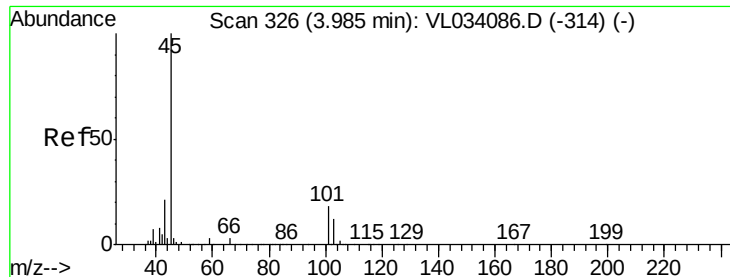


#18

1,1-Dichloroethene
 Concen: 0.427 ppbv m
 RT: 4.31 min Scan# 427
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	96	Resp	29412
Ion Ratio	Lower	Upper	
96	100		
61	191.9	173.1	259.7
98	64.8	50.3	75.5





#19

Isopropyl Alcohol

Concen: 0.660 ppbv m

RT: 4.00 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 72461

Ion Ratio Lower Upper

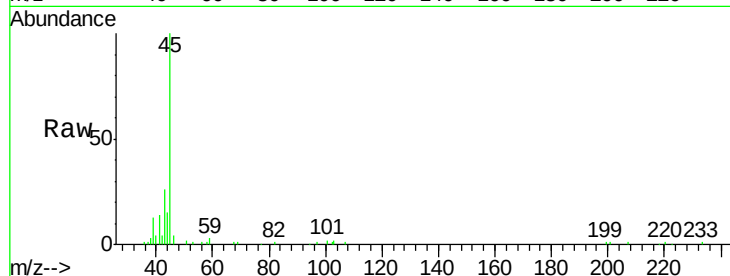
45 100

58 0.0 24.6 37.0#

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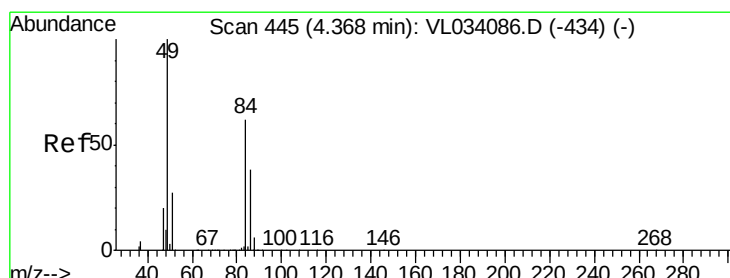
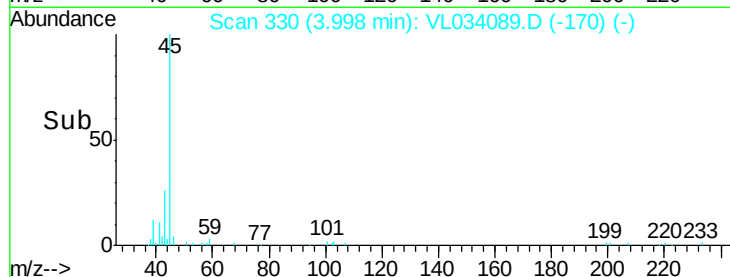
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.00

3.90 3.95 4.00 4.05 4.10

Time-->



#20

Methylene Chloride

Concen: 0.408 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 84 Resp: 26114

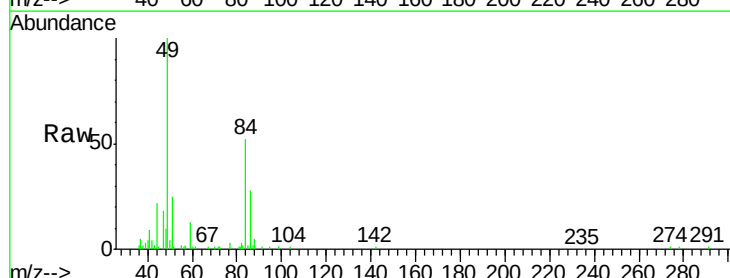
Ion Ratio Lower Upper

84 100

49 185.8 129.7 194.5

51 48.9 35.8 53.8

86 52.3 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

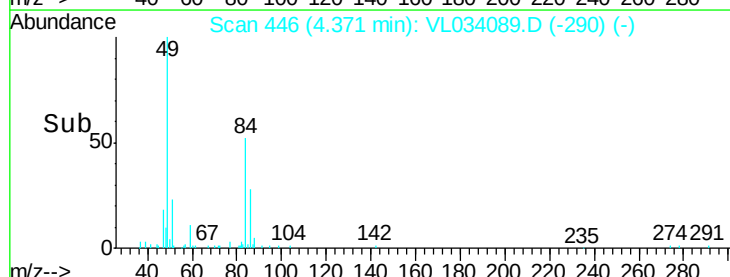
Ion 51.10 (50.80 to 51.80): VL0

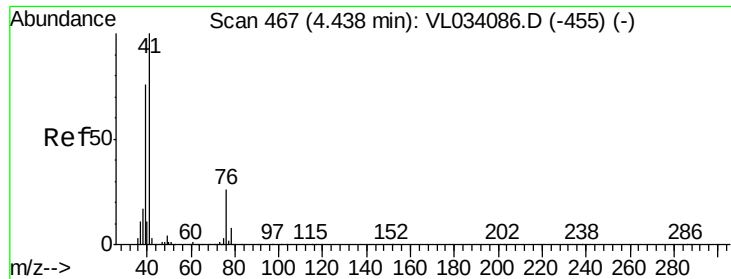
Ion 86.00 (85.70 to 86.70): VL0

4.37

4.35 4.40

Time-->





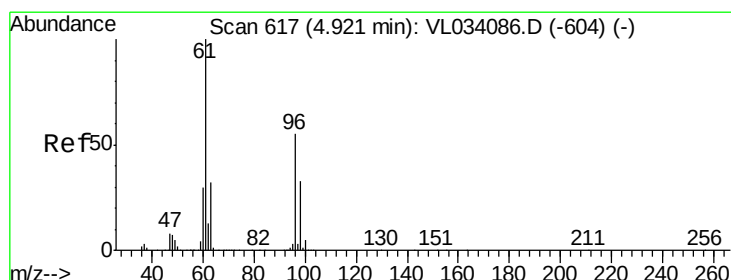
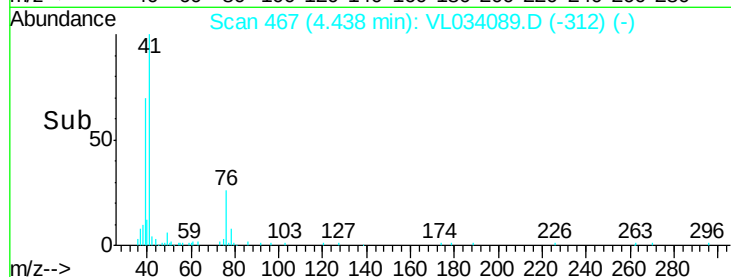
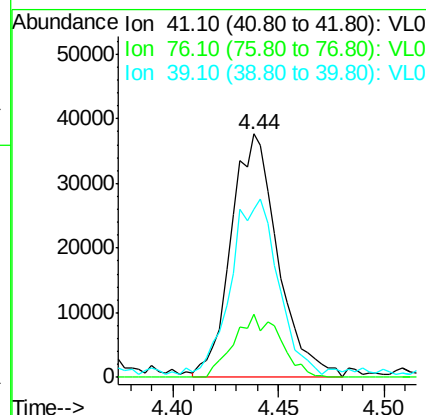
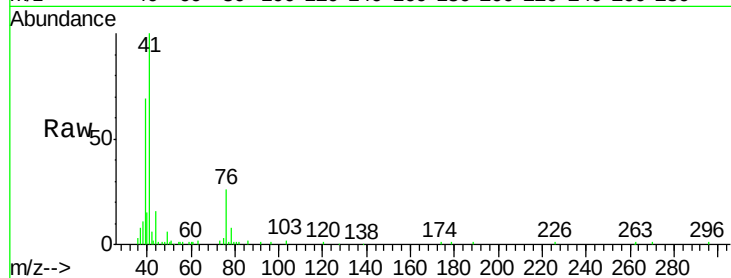
#21
Allvl Chloride
Concen: 0.536 ppbv
RT: 4.44 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	25.5	20.8	31.2
39	76.2	61.3	91.9

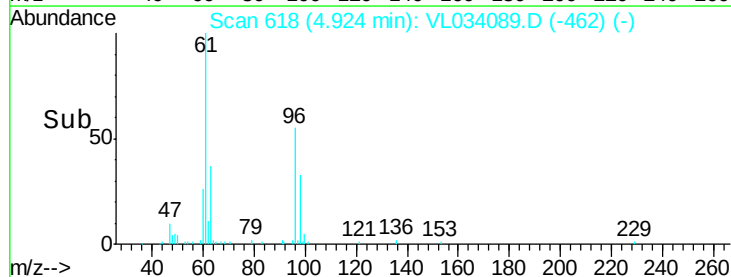
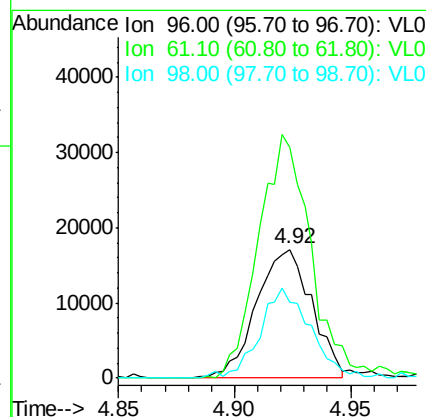
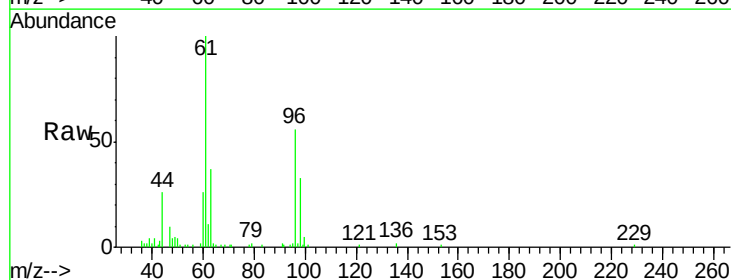
Manual Integrations
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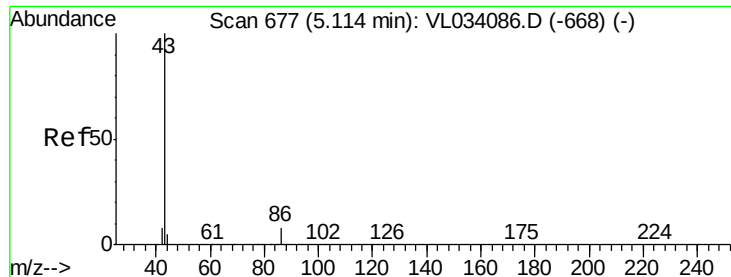
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 0.404 ppbv
RT: 4.92 min Scan# 618
Delta R.T. 0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	179.2	144.2	216.2
98	59.4	48.0	72.0





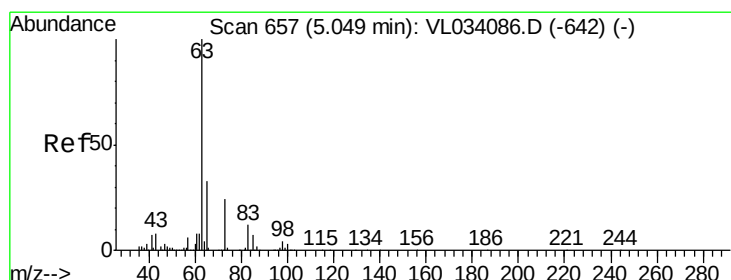
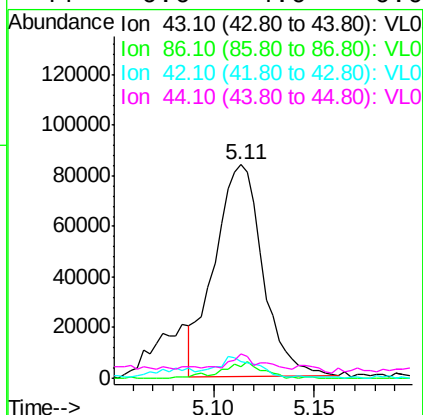
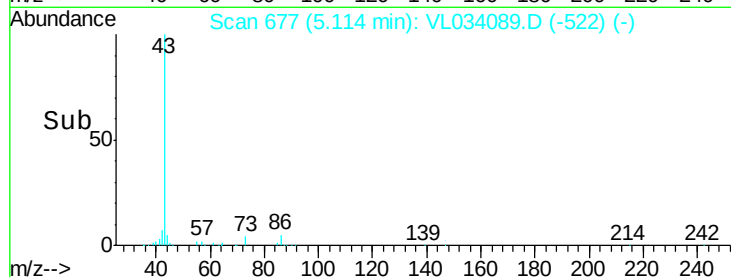
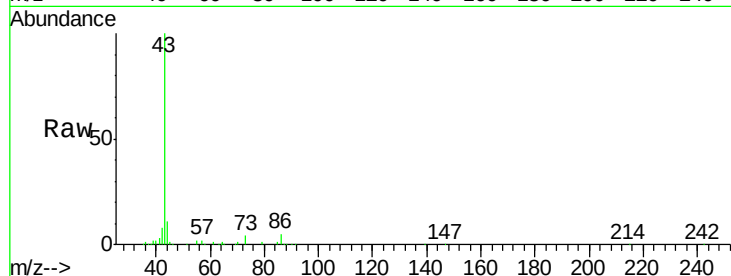
#23
 Vinyl Acetate
 Concen: 0.759 ppbv
 RT: 5.11 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	43	Resp	139065
Ion Ratio	Lower	Upper	
43	100		
86	5.0	5.4	8.0#
42	7.3	7.9	11.9#
44	6.6	4.0	6.0#

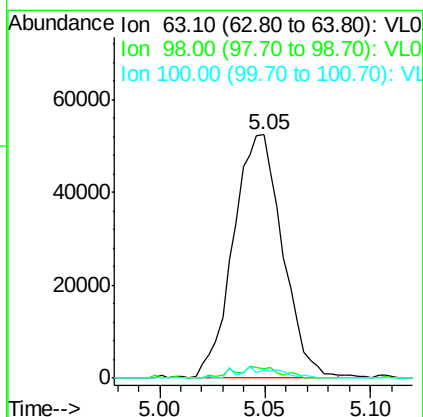
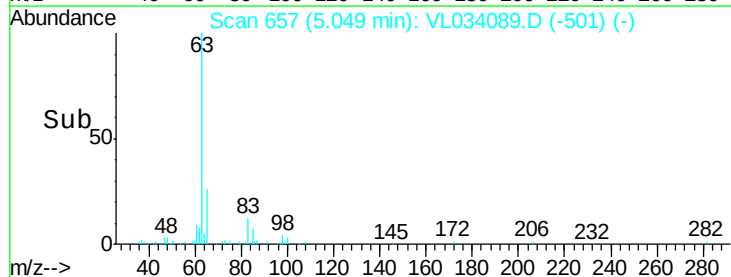
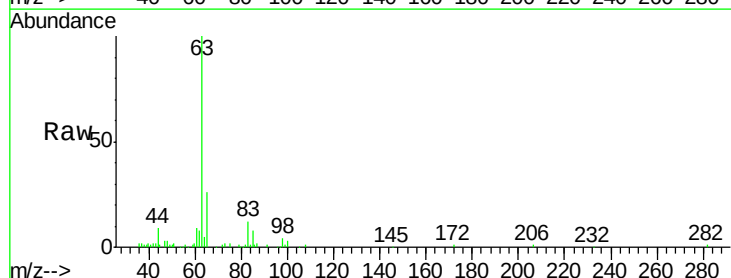
Manual Integrations
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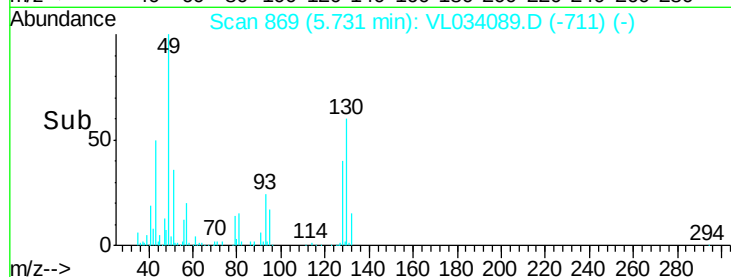
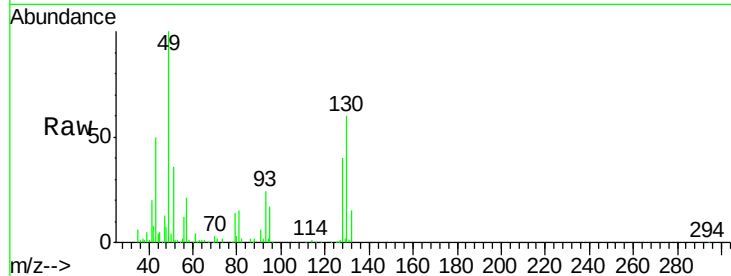
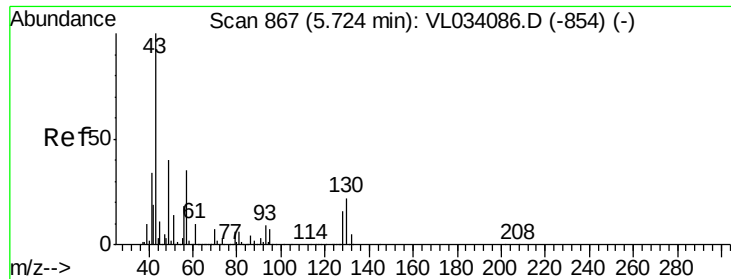
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#24
 1,1-Dichloroethane
 Concen: 0.547 ppbv
 RT: 5.05 min Scan# 657
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	63	Resp	84165
Ion Ratio	Lower	Upper	
63	100		
98	4.1	2.0	6.0
100	3.4	1.3	3.8





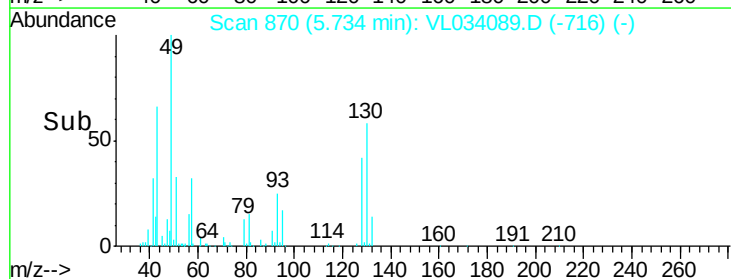
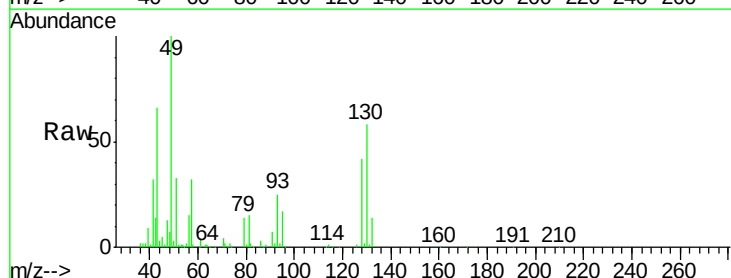
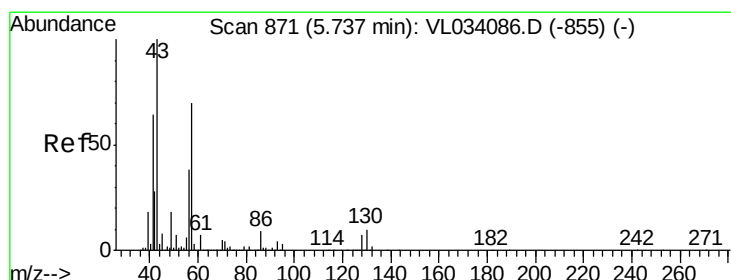
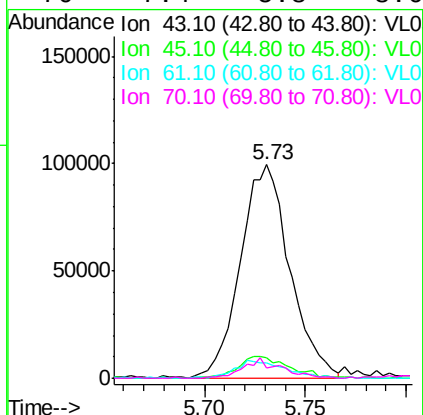
#25
Ethyl Acetate
Concen: 0.644 ppbv
RT: 5.73 min Scan# 869
Delta R.T. 0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tot Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.4	12.6
61	8.7	7.3	10.9
70	7.4	5.8	8.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

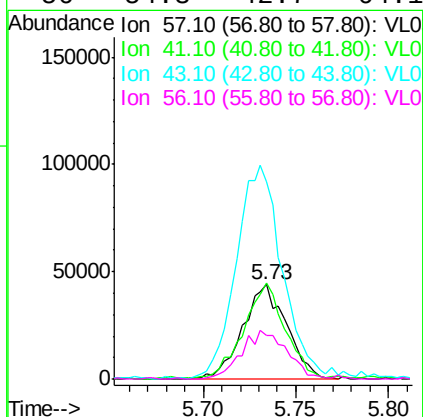
Manual Integrations
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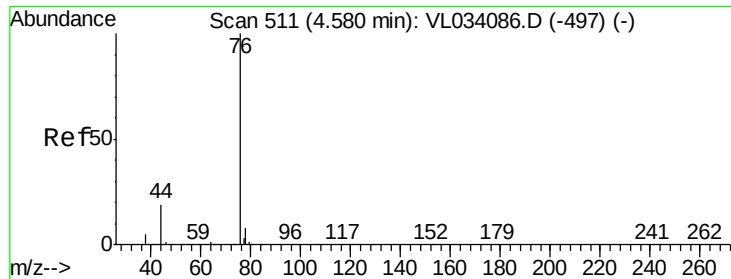
MMDadoda
8/8/2019 12:41:20 PM



#26
Hexane
Concen: 0.606 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
57	100		
41	100.8	75.7	113.5
43	245.8	189.8	284.8
56	54.3	42.7	64.1





#27

Carbon Disulfide

Concen: 0.390 ppbv

RT: 4.58 min Scan# 512

Delta R.T. 0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

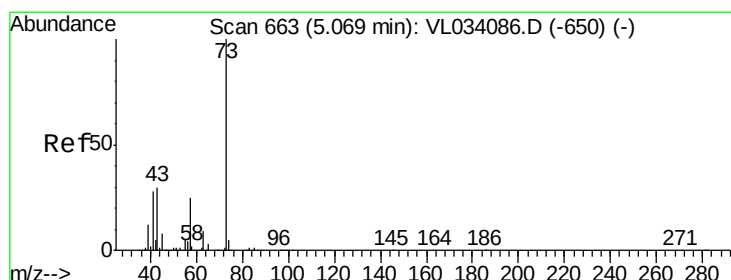
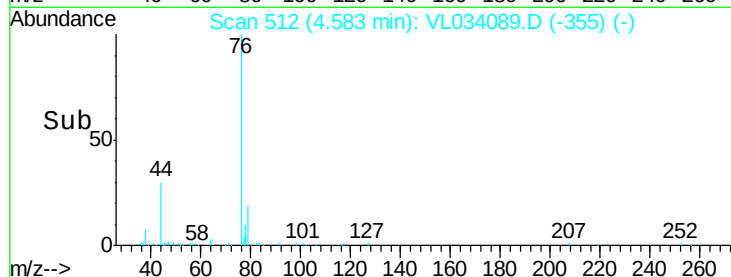
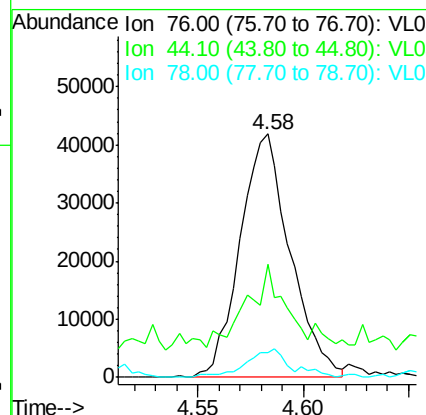
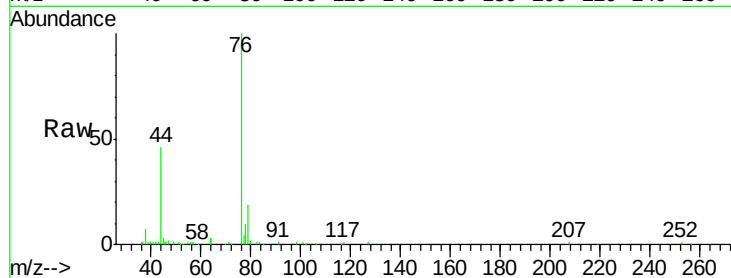
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	69109
Ion	Ratio	Lower	Upper
76	100		
44	26.8	17.8	26.6#
78	10.8	7.7	11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.666 ppbv

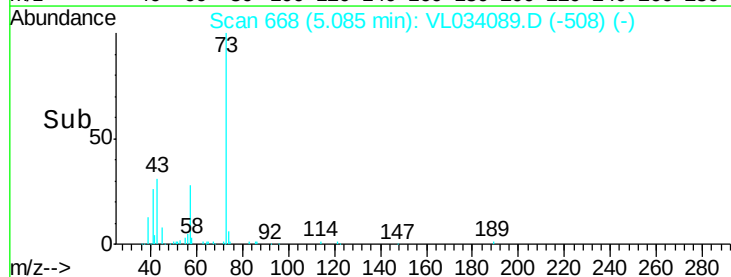
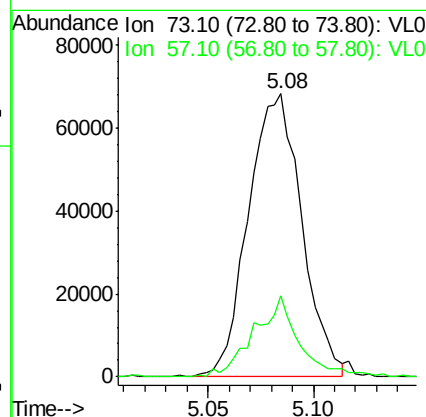
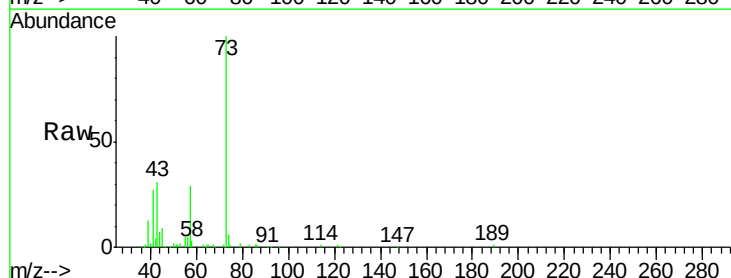
RT: 5.08 min Scan# 668

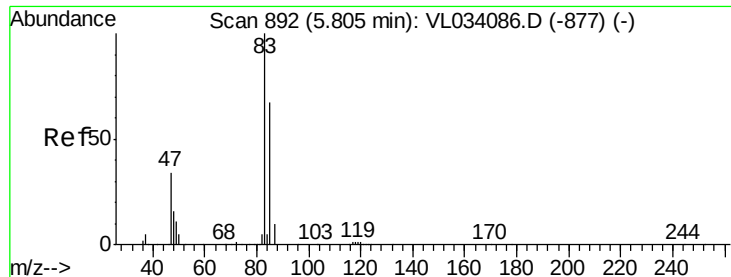
Delta R.T. 0.02 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	73	Resp:	119180
Ion	Ratio	Lower	Upper
73	100		
57	24.8	19.5	29.3





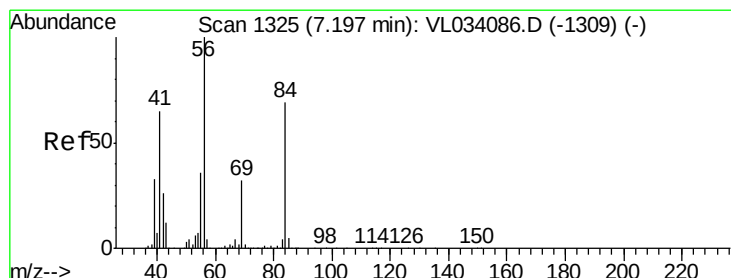
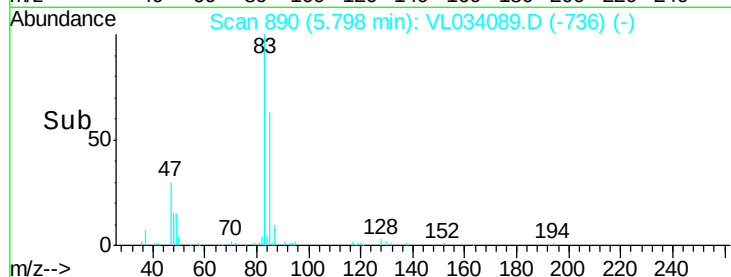
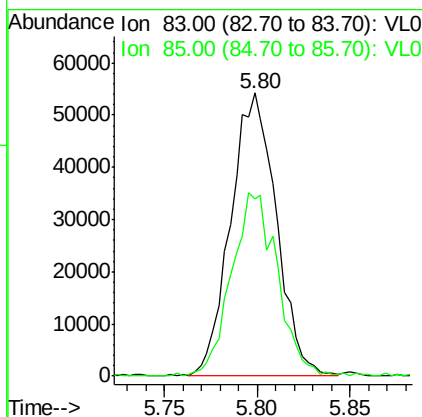
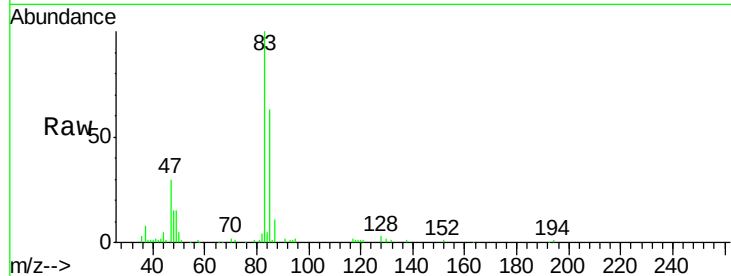
#29
Chloroform
Concen: 0.449 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	92980
Ion Ratio	100	Lower	Upper
85	62.3	53.2	79.8

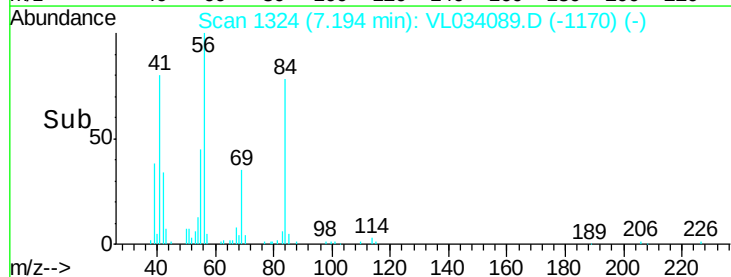
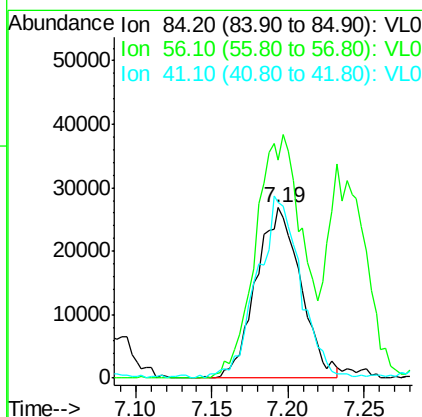
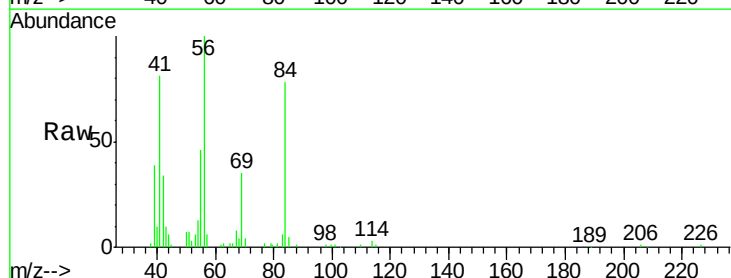
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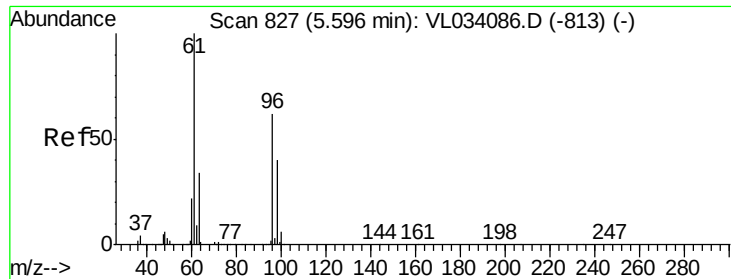
MMDadoda
8/8/2019 12:41:20 PM



#30
Cyclohexane
Concen: 0.578 ppbv m
RT: 7.19 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	84	Resp	54931
Ion Ratio	100	Lower	Upper
56	148.4	122.6	184.0
41	104.0	80.1	120.1





#31

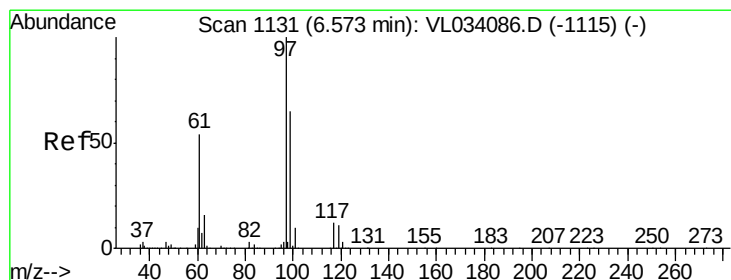
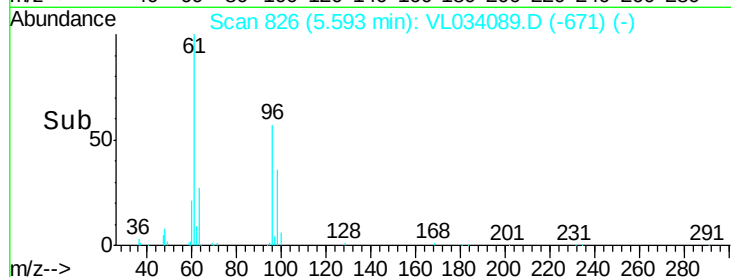
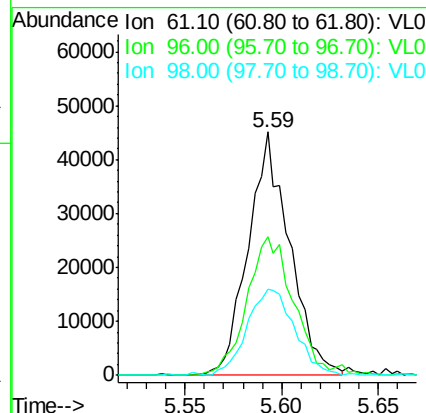
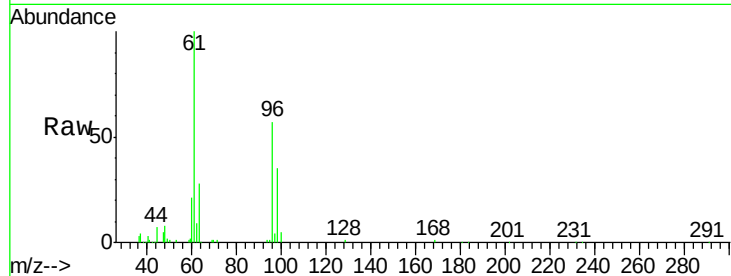
cis-1,2-Dichloroethene
 Concen: 0.574 ppbv
 RT: 5.59 min Scan# 826
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	56.9	49.3	73.9
98	34.8	32.4	48.6

Manual Integrations
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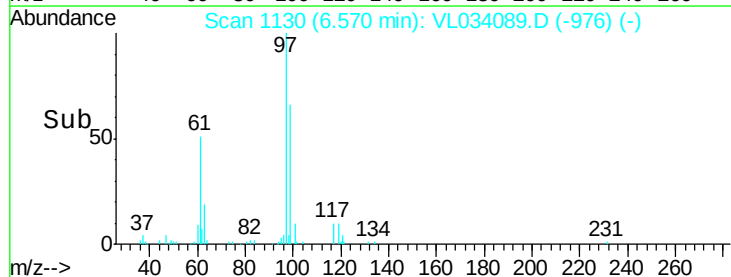
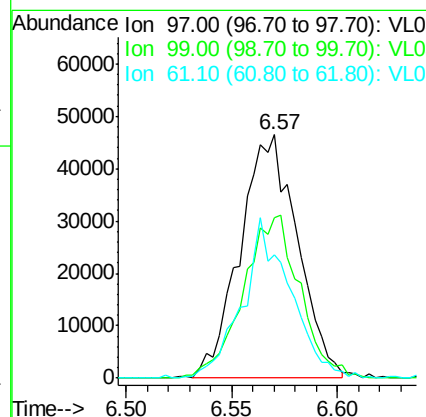
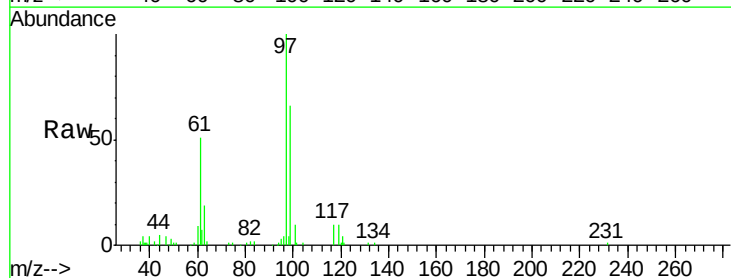
MMDadoda
 8/8/2019 12:41:20 PM

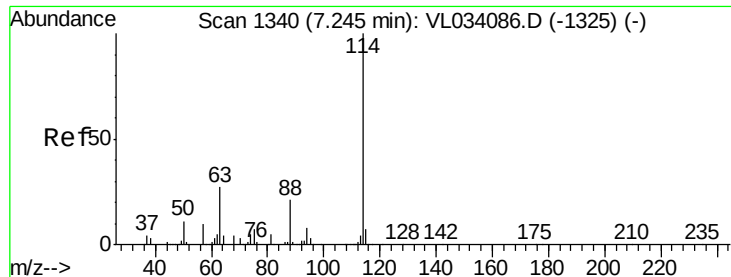


#32

1,1,1-Trichloroethane
 Concen: 0.398 ppbv
 RT: 6.57 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.5	52.2	78.4
61	55.7	42.0	63.0





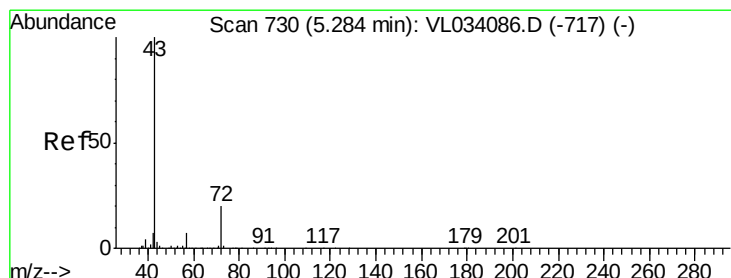
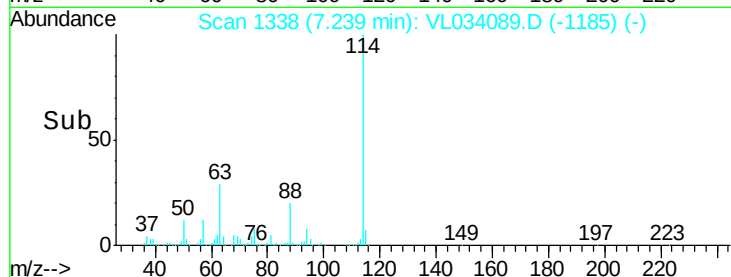
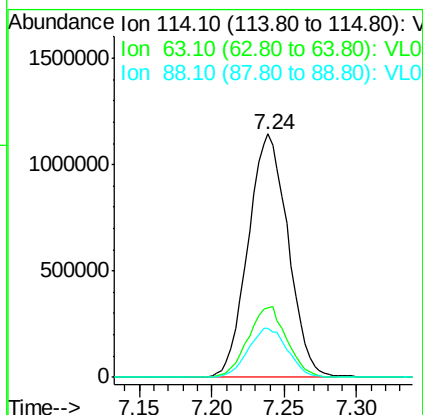
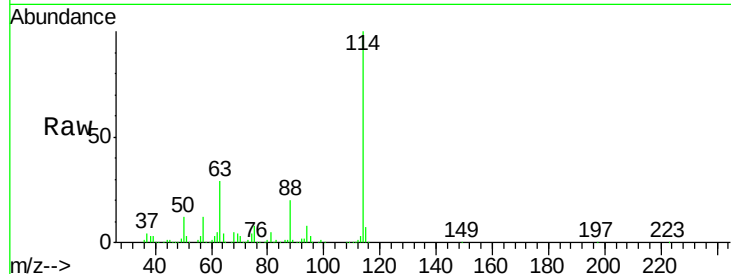
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.4	22.5	33.7
88	20.0	15.7	23.5

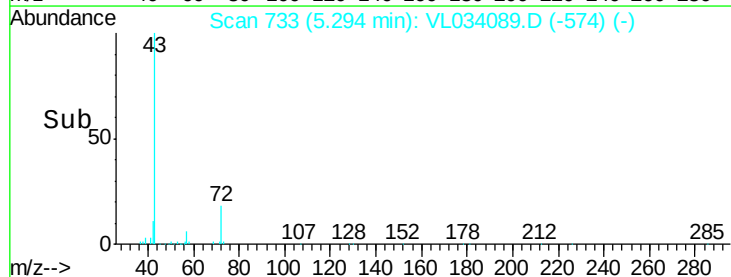
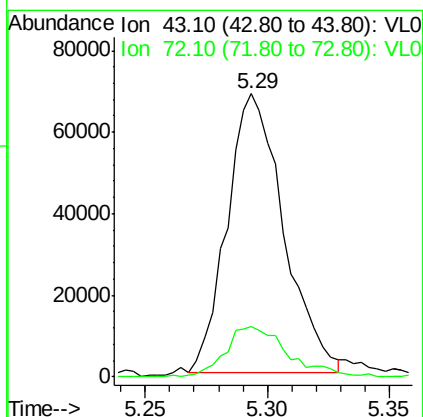
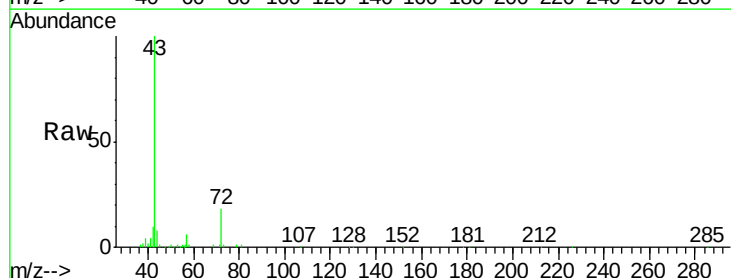
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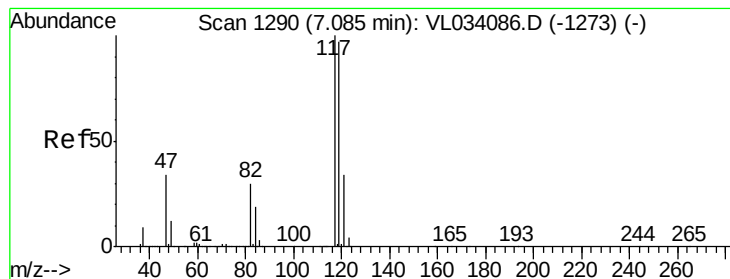
MMDadoda
 8/8/2019 12:41:20 PM



#34
 2-Butanone
 Concen: 0.879 ppbv
 RT: 5.29 min Scan# 733
 Delta R.T. 0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.0	16.0	24.0





#35

Carbon Tetrachloride

Concen: 0.469 ppbv

RT: 7.08 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

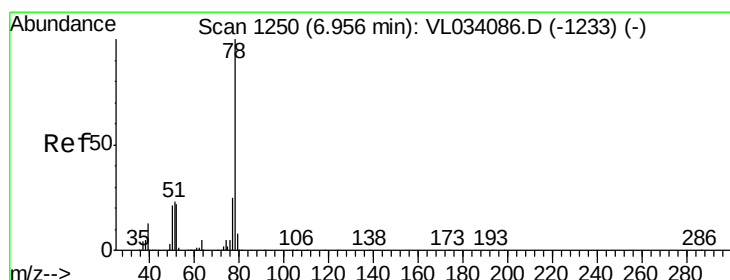
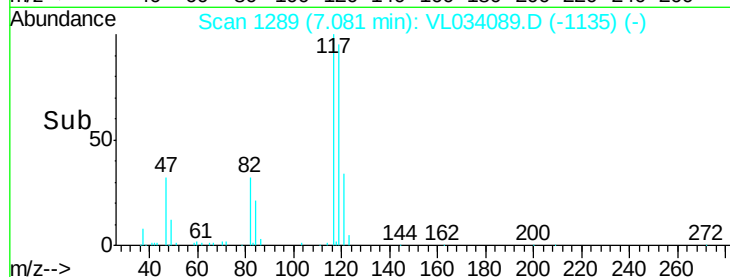
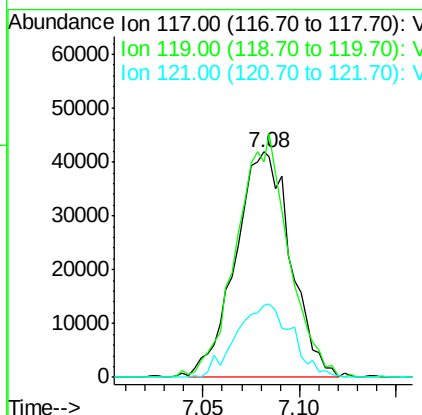
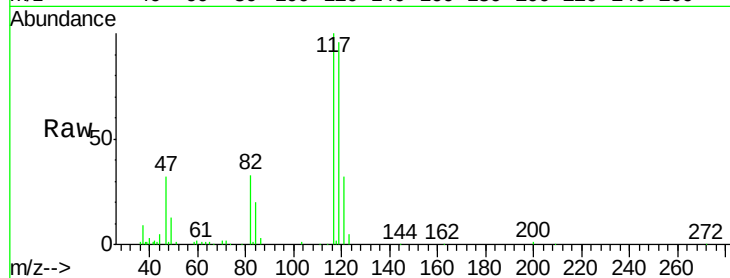
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	83230
Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.8	116.6
121	31.7	27.4	41.2

Manual Integrations
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#36

Benzene

Concen: 0.681 ppbv

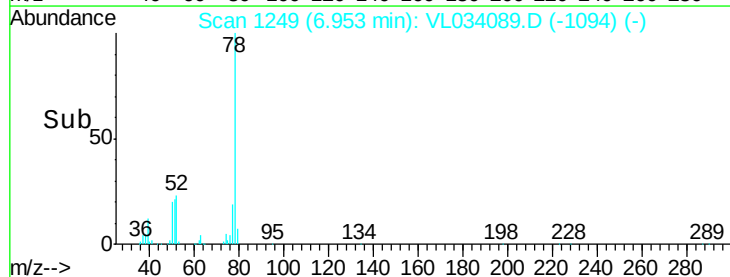
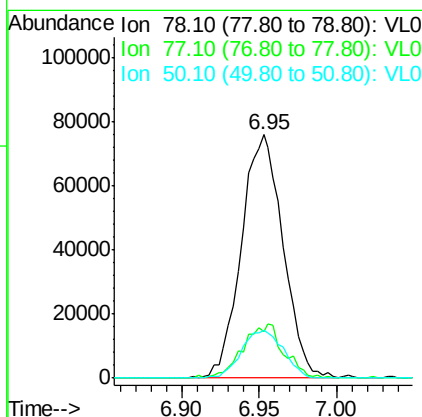
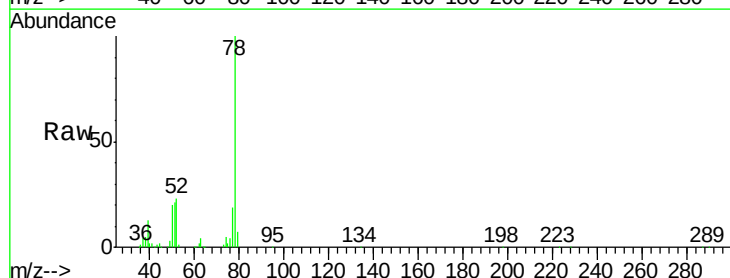
RT: 6.95 min Scan# 1249

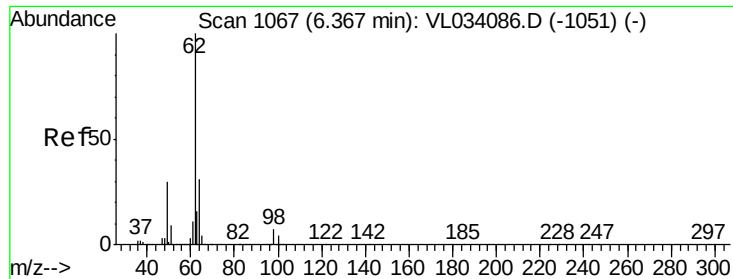
Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	78	Resp:	142359
Ion	Ratio	Lower	Upper
78	100		
77	18.9	19.9	29.9#
50	19.8	16.7	25.1





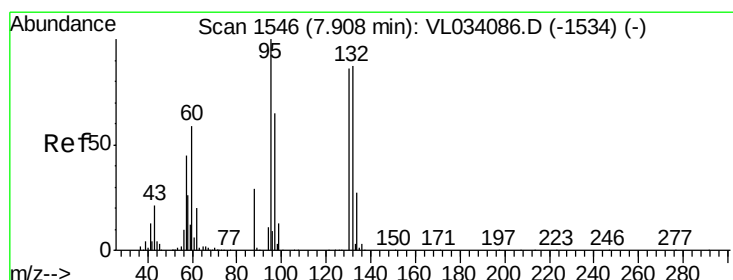
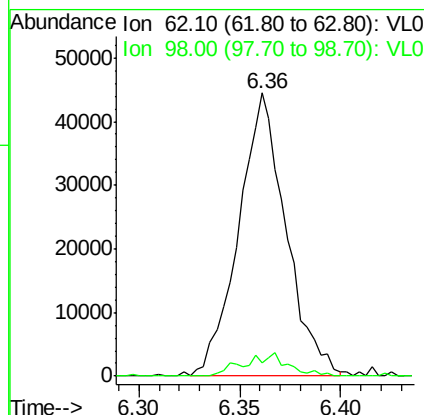
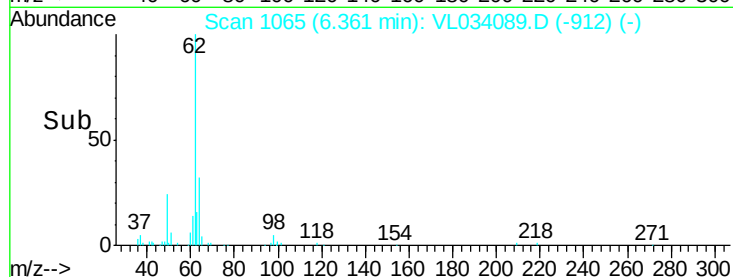
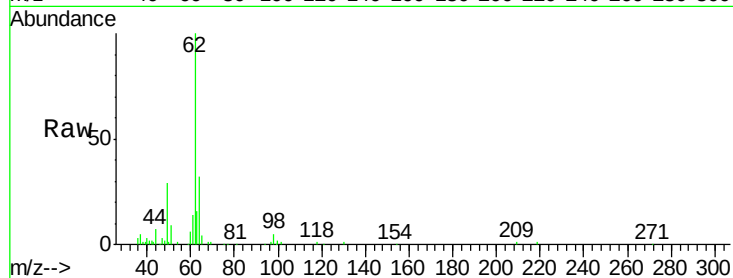
#37
 1,2-Dichloroethane
 Concen: 0.535 ppbv
 RT: 6.36 min Scan# 1065
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	73030		
98	7.6	4.9	7.3#	

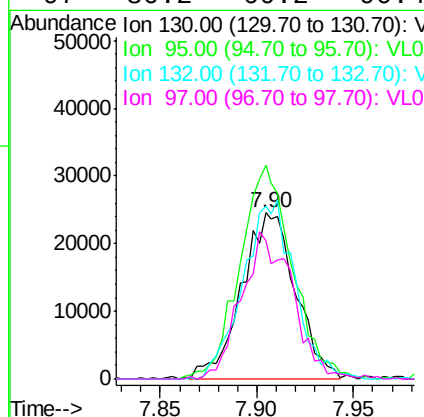
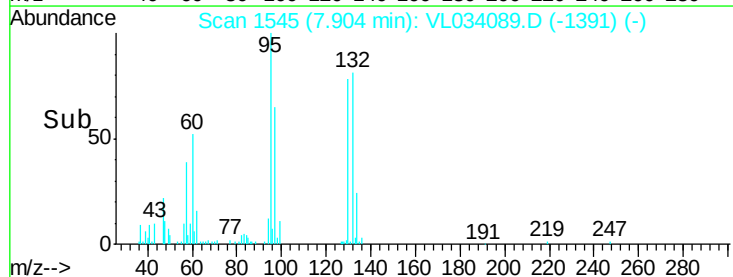
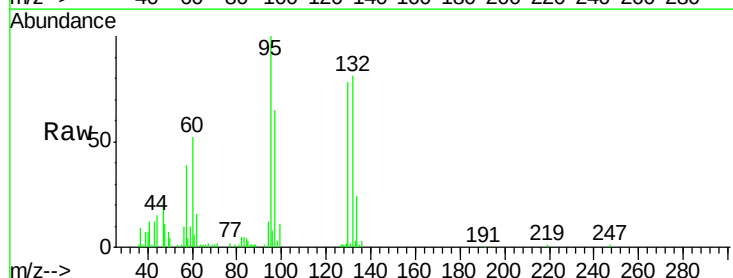
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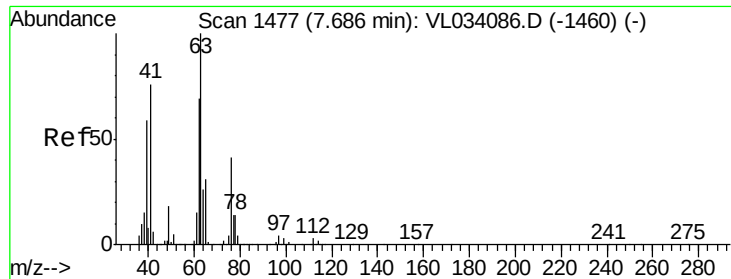
MMDadoda
 8/8/2019 12:41:20 PM



#38
 Trichloroethene
 Concen: 0.675 ppbv
 RT: 7.90 min Scan# 1545
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	47695		
95	123.5	92.1	138.1	
132	101.2	79.7	119.5	
97	80.2	60.2	90.4	





#39

1,2-Dichloropropane

Concen: 0.709 ppbv m

RT: 7.68 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

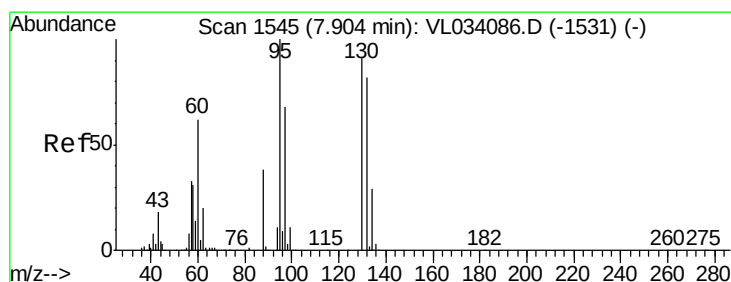
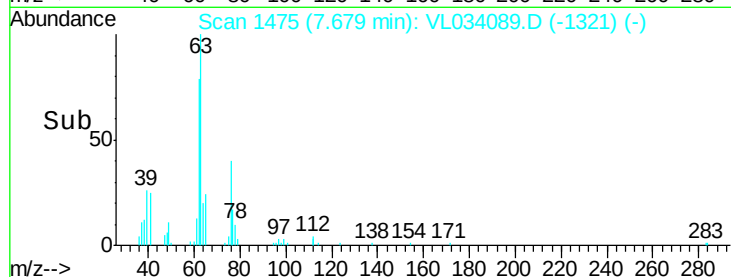
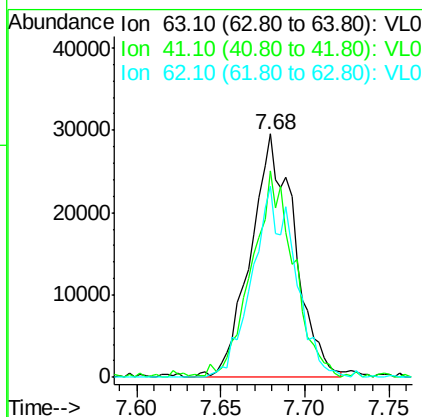
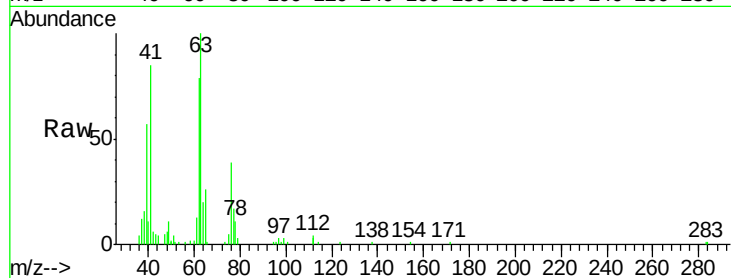
ClientSampleId :

VSTDIC0.5

Tot Ion:	63	Resp:	53615
Ion Ratio	Lower	Upper	
63	100		
41	85.0	60.6	91.0
62	78.7	55.0	82.6

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#40

1,4-Dioxane

Concen: 0.724 ppbv m

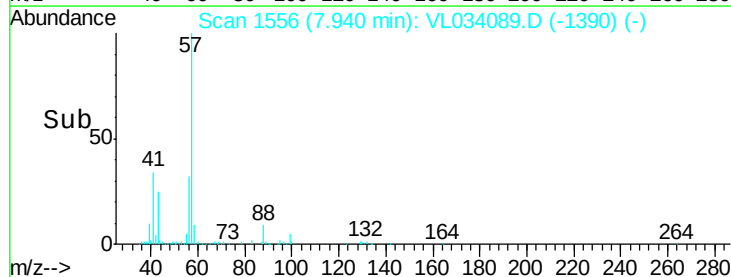
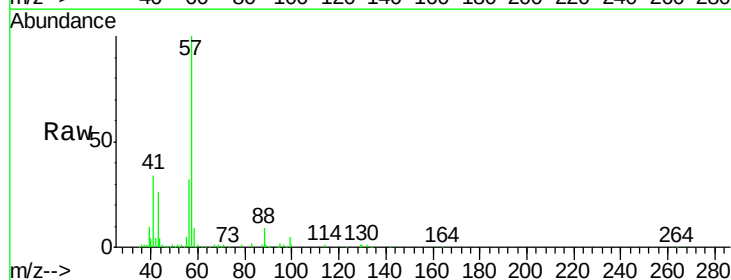
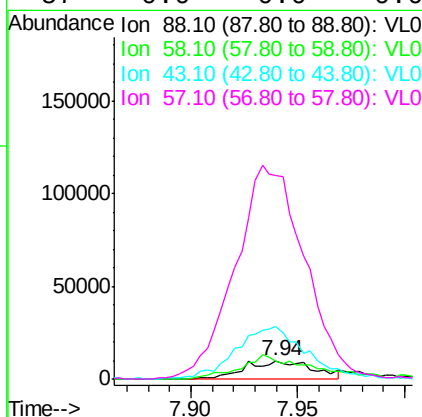
RT: 7.94 min Scan# 1556

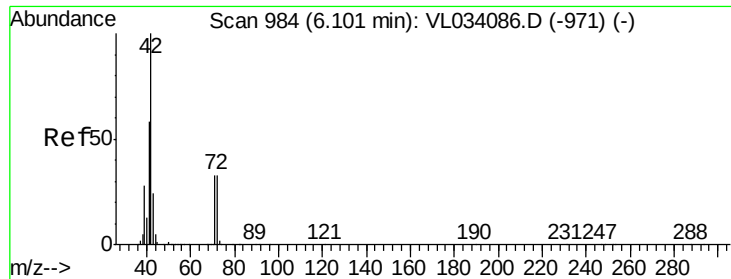
Delta R.T. 0.04 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	88	Resp:	20992
Ion Ratio	Lower	Upper	
88	100		
58	0.0	113.0	169.4#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 1.029 ppbv

RT: 6.12 min Scan# 990

Delta R.T. 0.02 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

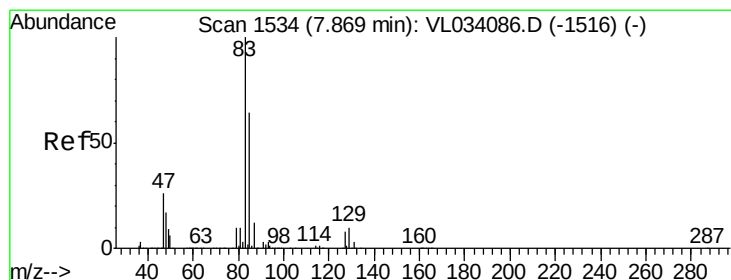
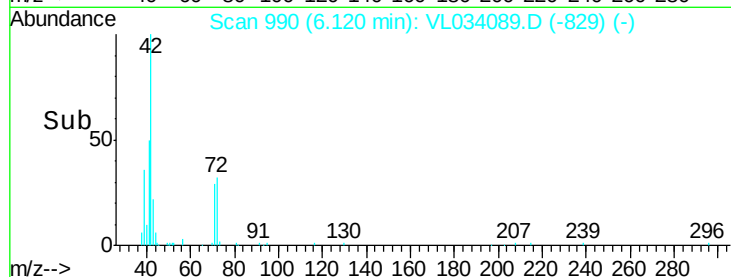
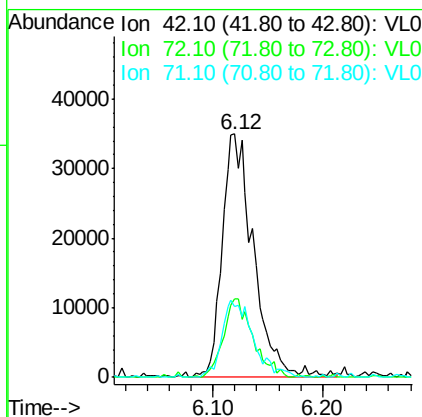
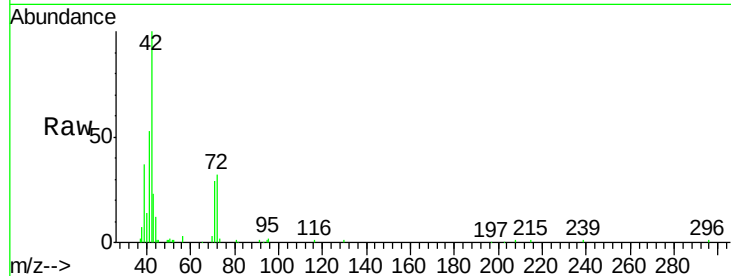
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	69343
Ion Ratio		Lower	Upper
42	100		
72	0.0	26.9	40.3#
71	31.6	26.5	39.7

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.570 ppbv

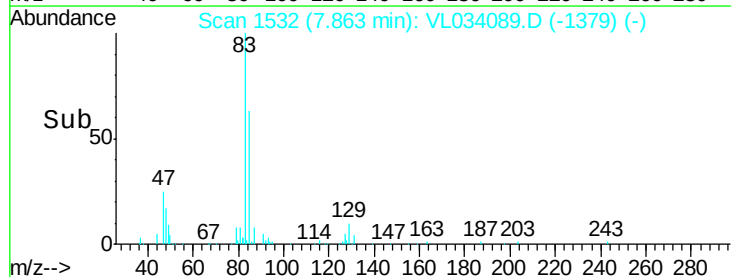
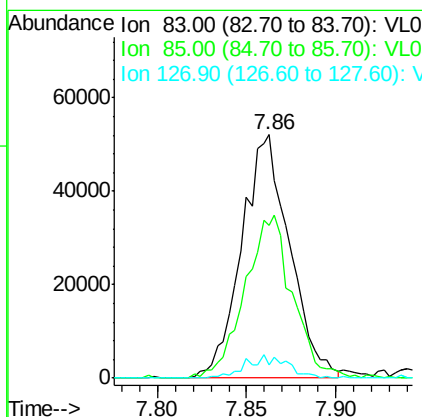
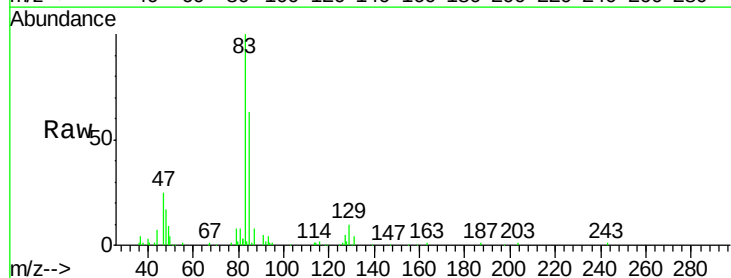
RT: 7.86 min Scan# 1532

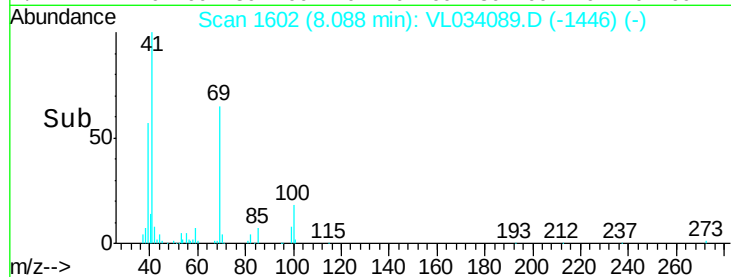
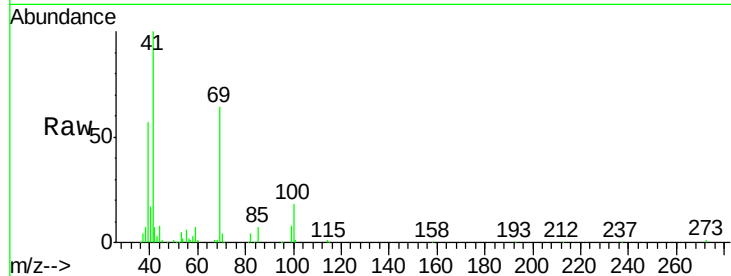
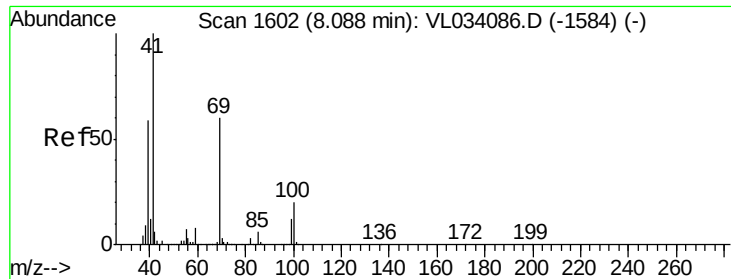
Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	83	Resp:	98122
Ion Ratio		Lower	Upper
83	100		
85	62.8	50.9	76.3
127	5.2	6.1	9.1#





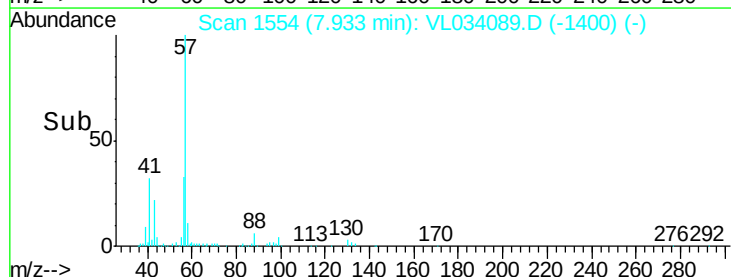
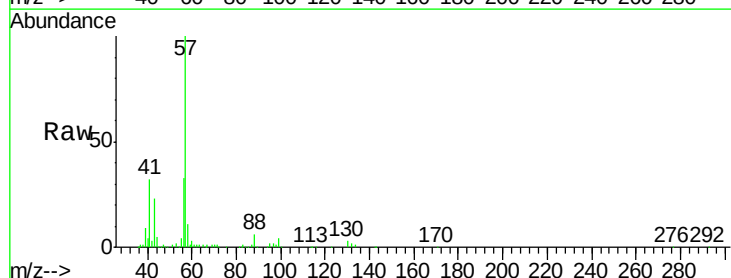
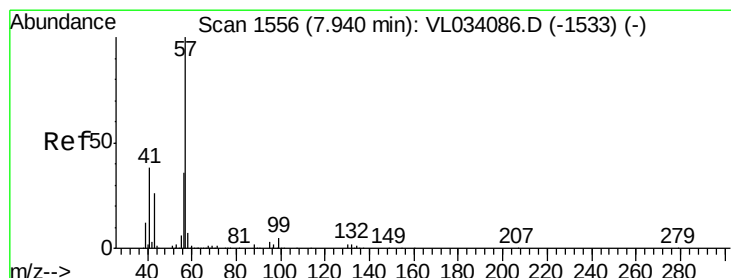
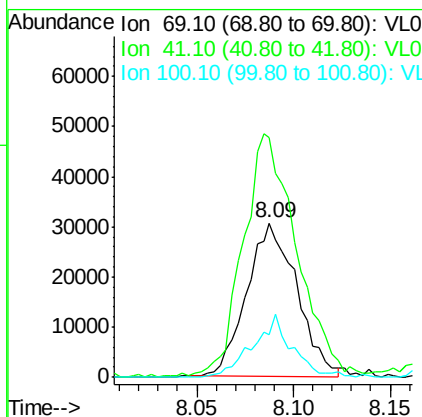
#43
Methyl Methacrylate
Concen: 0.764 ppbv
RT: 8.09 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		55134		
41	171.1	132.9	199.3		
100	32.7	25.8	38.8		

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

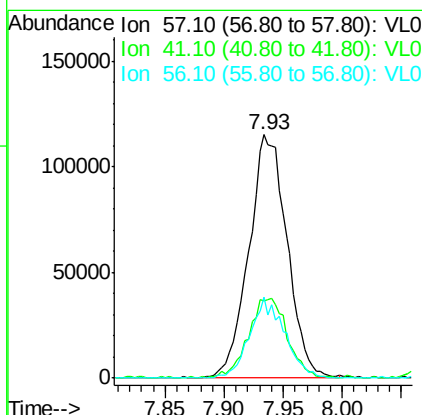
Manual Integrations
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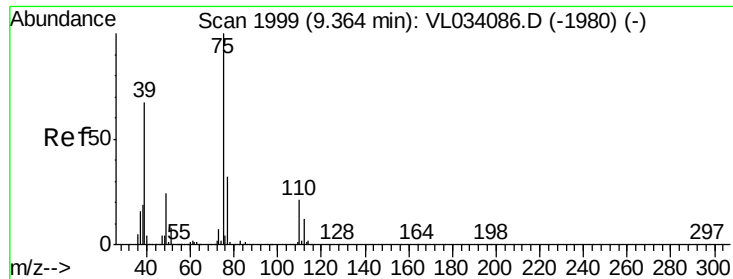
MMDadoda
8/8/2019 12:41:20 PM



#44
2,2,4-Trimethylpentane
Concen: 0.835 ppbv m
RT: 7.93 min Scan# 1554
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		260715		
41	33.8	29.2	43.8		
56	30.2	26.7	40.1		





#45

t-1,3-Dichloropropene

Concen: 0.743 ppbv m

RT: 9.35 min Scan# 1996

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 66286

Ion Ratio Lower Upper

75 100

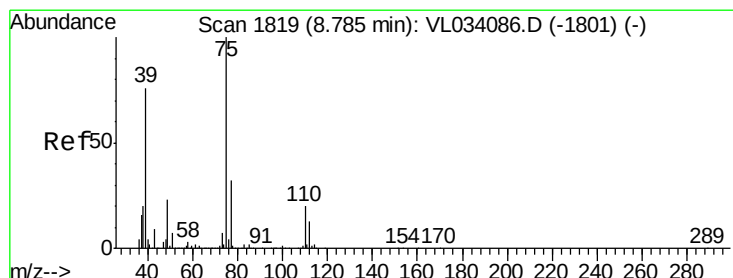
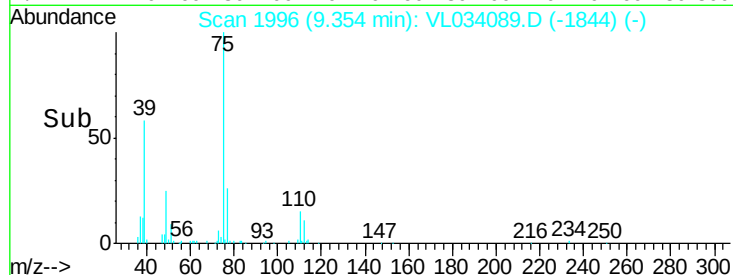
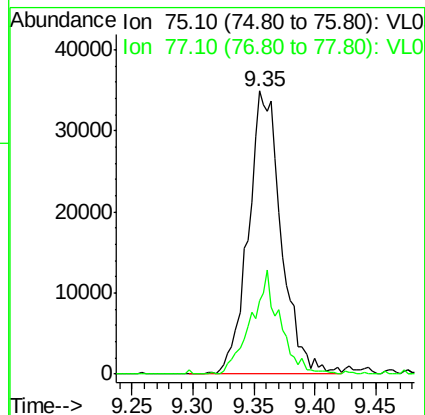
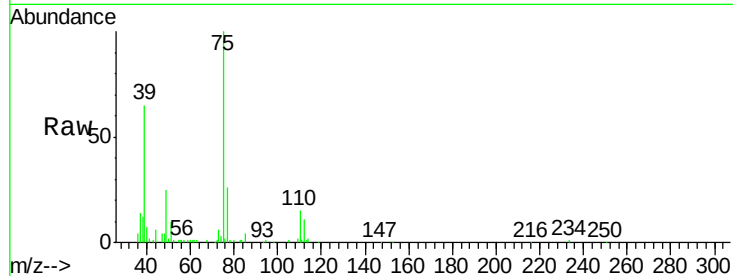
77 25.7 25.7 38.5

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 0.749 ppbv

RT: 8.78 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

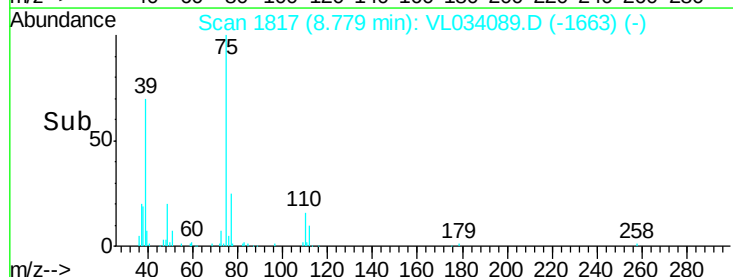
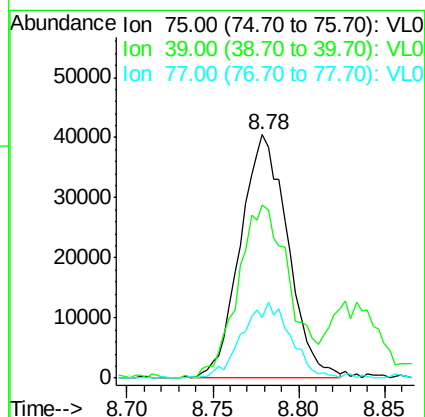
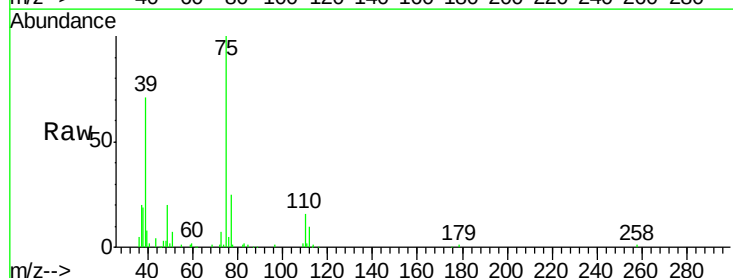
Tgt Ion: 75 Resp: 77495

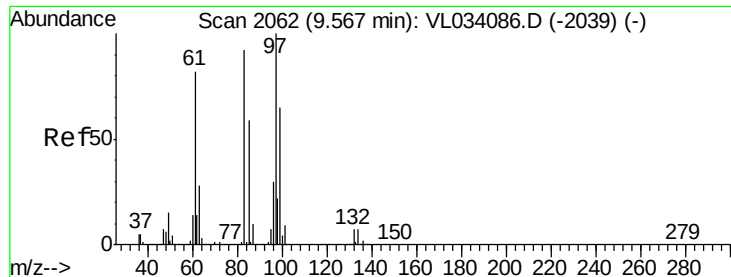
Ion Ratio Lower Upper

75 100

39 71.0 61.0 91.4

77 24.4 25.6 38.4#





#47

1,1,2-Trichloroethane

Concen: 0.616 ppbv

RT: 9.55 min Scan# 2058

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

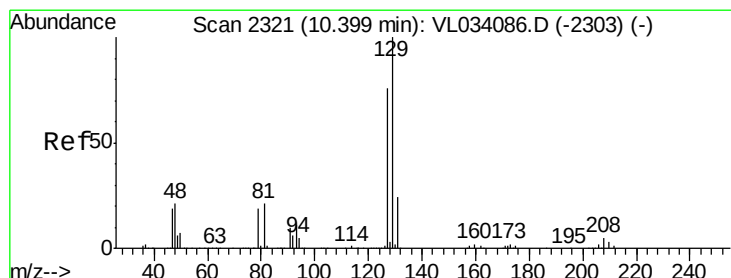
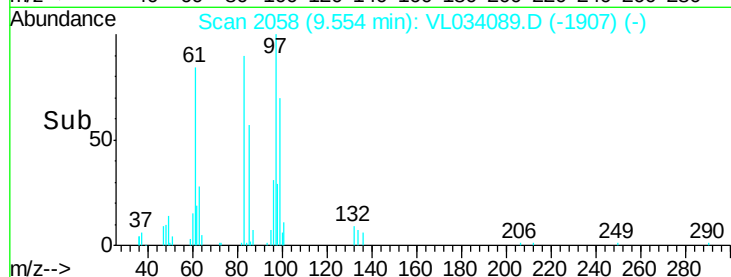
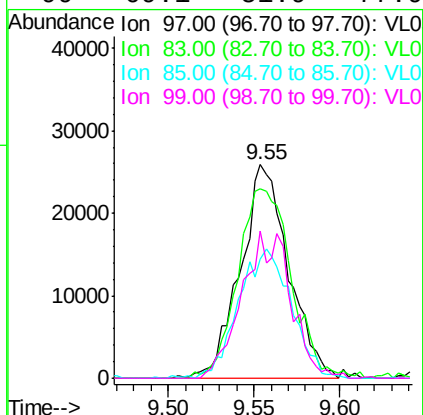
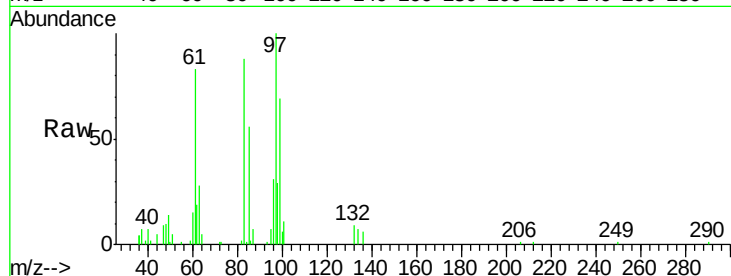
ClientSampleId :

VSTDIC0.5

Tot Ion:	97	Resp:	50180
Ion	Ratio	Lower	Upper
97	100		
83	88.4	74.0	111.0
85	54.7	47.1	70.7
99	69.1	51.9	77.9

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#48

Dibromochloromethane

Concen: 0.583 ppbv

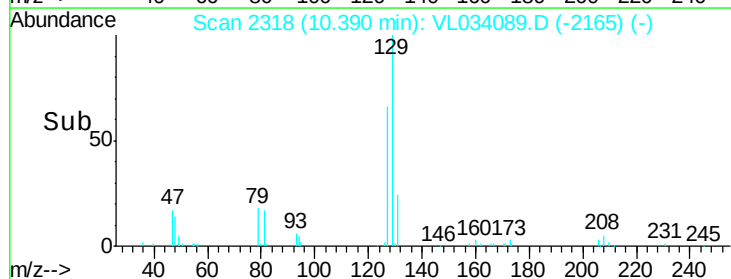
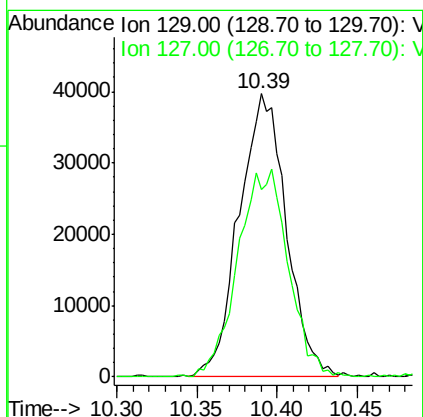
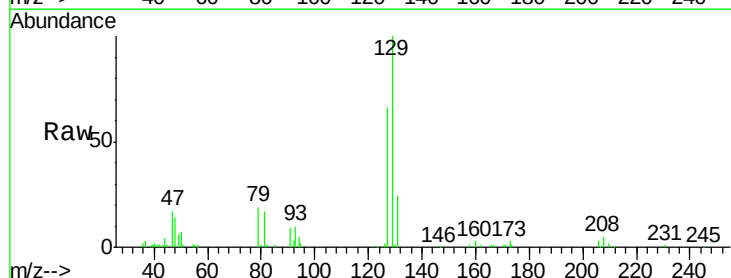
RT: 10.39 min Scan# 2318

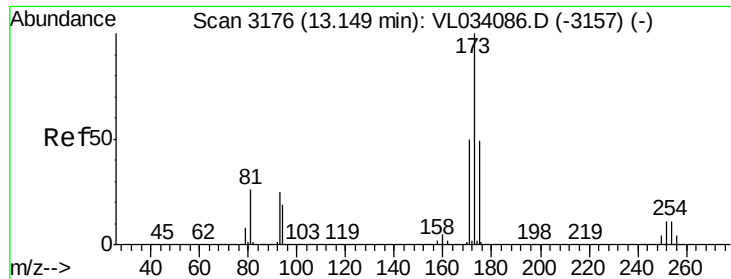
Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	129	Resp:	80413
Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.2





#49

Bromoform

Concen: 0.576 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

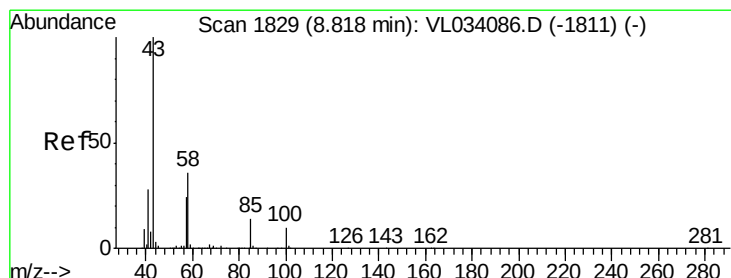
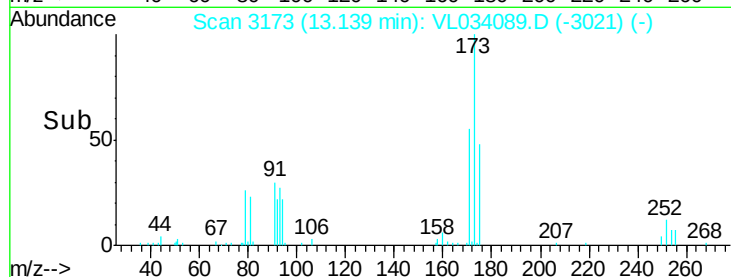
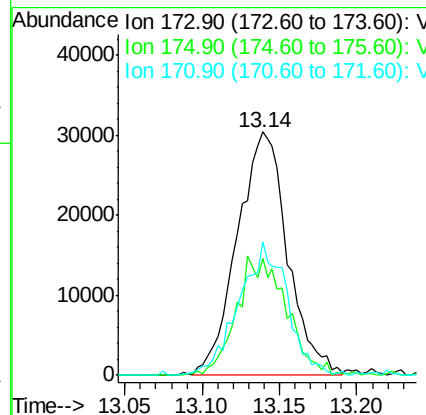
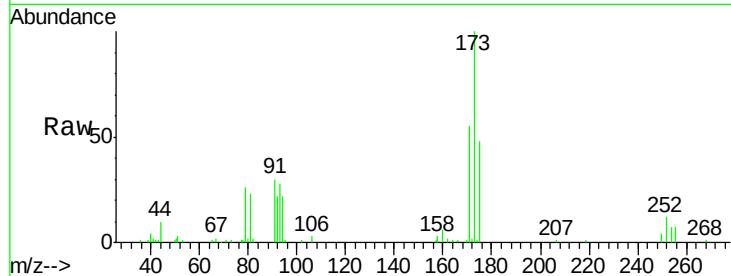
ClientSampleId :

VSTDIC0.5

Tot Ion:173	Resp:	68767
Ion Ratio	Lower	Upper
173 100		
175 48.5	39.8	59.8
171 52.4	42.7	64.1

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#50

4-Methyl-2-Pentanone

Concen: 0.933 ppbv

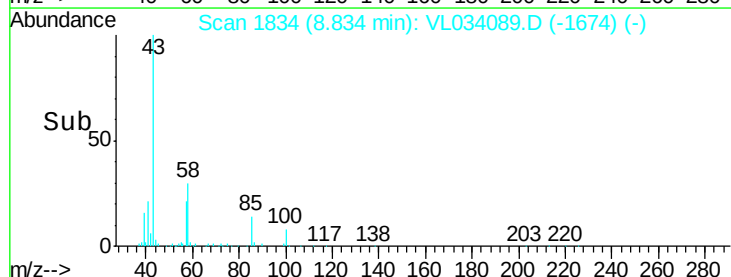
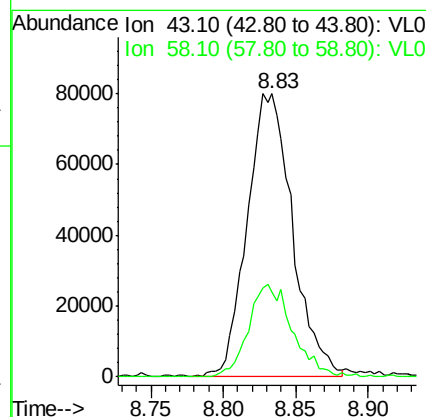
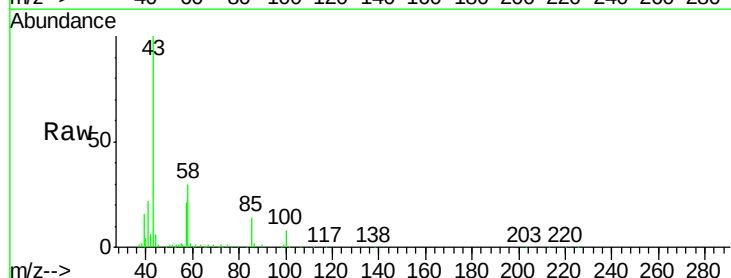
RT: 8.83 min Scan# 1834

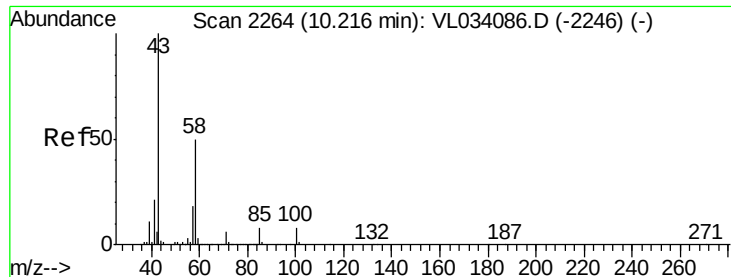
Delta R.T. 0.02 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 43	Resp:	174196
Ion Ratio	Lower	Upper
43 100		
58 31.7	28.2	42.2





#51

2-Hexanone

Concen: 1.018 ppbv m

RT: 10.24 min Scan# 2270

Delta R.T. 0.02 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 146498

Ion Ratio Lower Upper

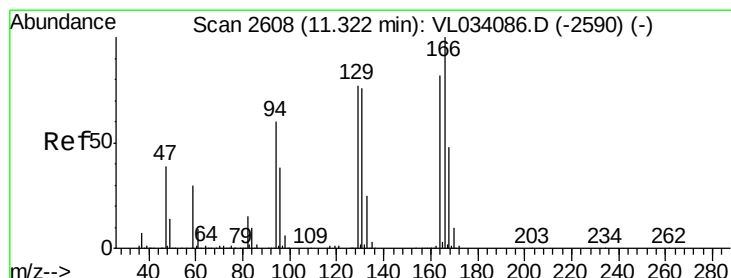
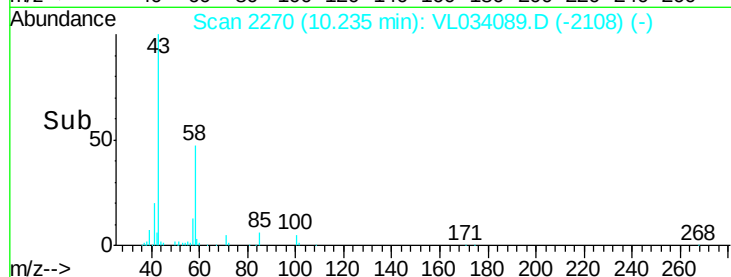
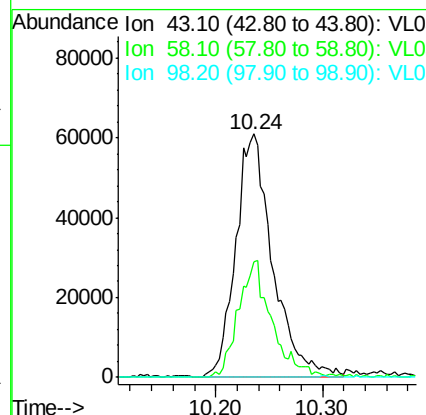
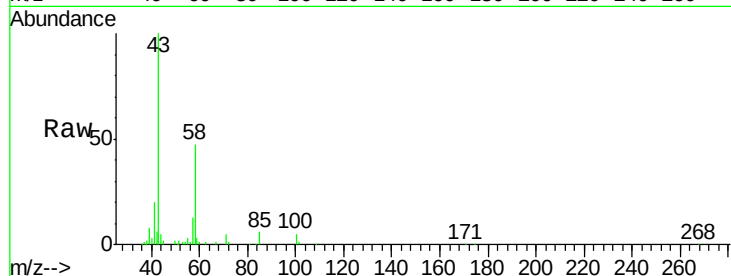
43 100

58 0.0 38.5 57.7#

98 0.0 0.0 0.0

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#52

Tetrachloroethene

Concen: 0.813 ppbv m

RT: 11.31 min Scan# 2605

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion: 164 Resp: 49636

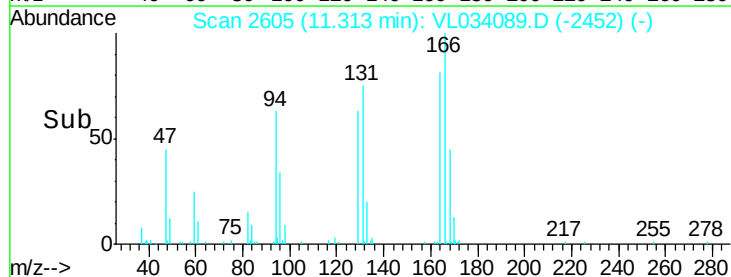
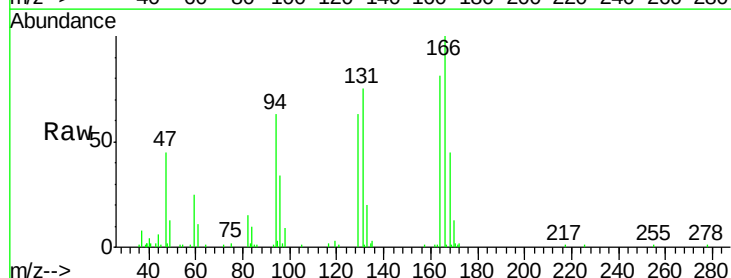
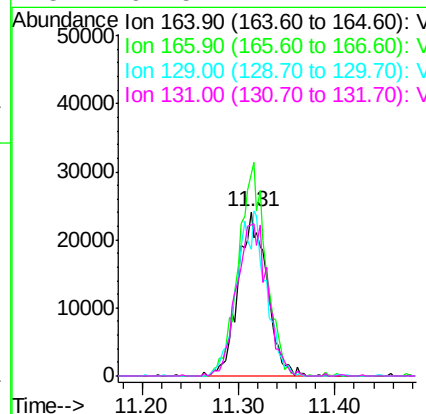
Ion Ratio Lower Upper

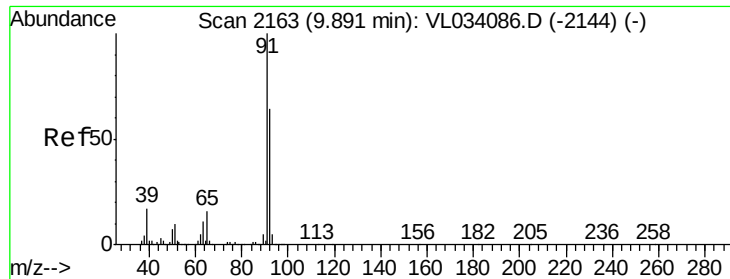
164 100

166 123.2 96.8 145.2

129 77.4 74.9 112.3

131 92.5 74.2 111.2





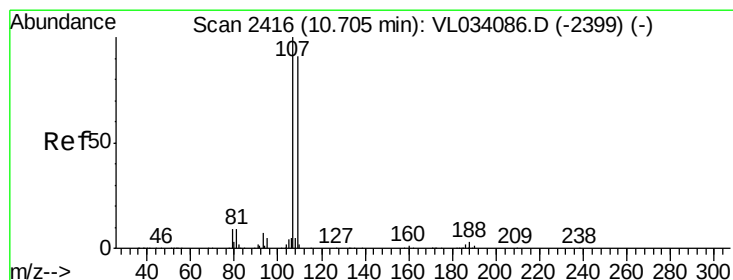
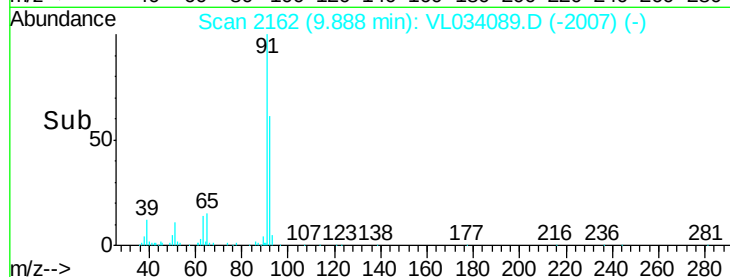
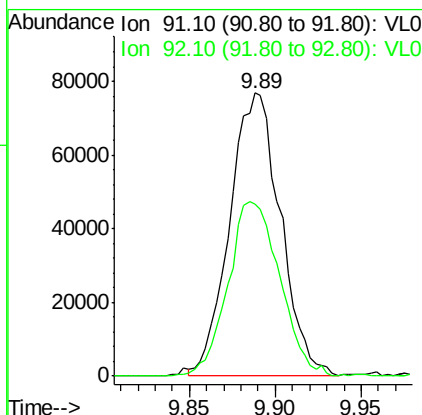
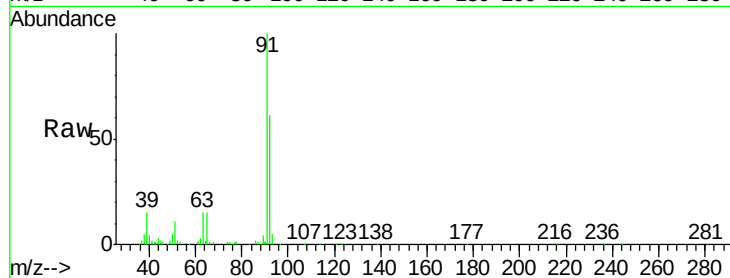
#53
Toluene
Concen: 0.757 ppbv
RT: 9.89 min Scan# 2162
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.3	50.3	75.5

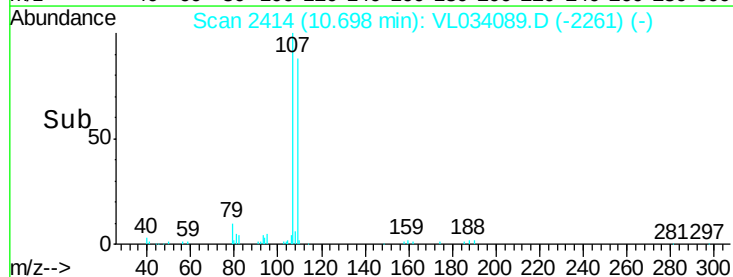
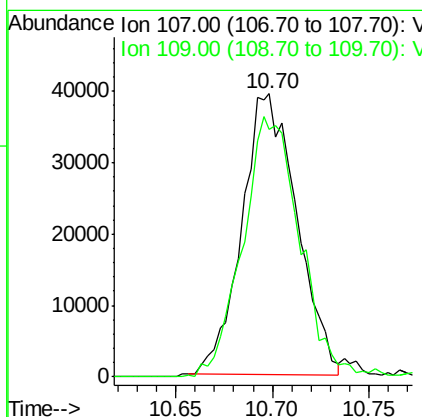
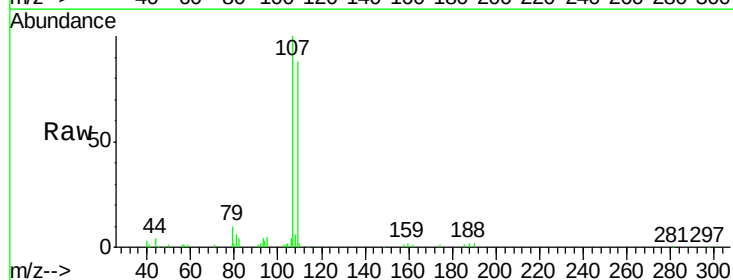
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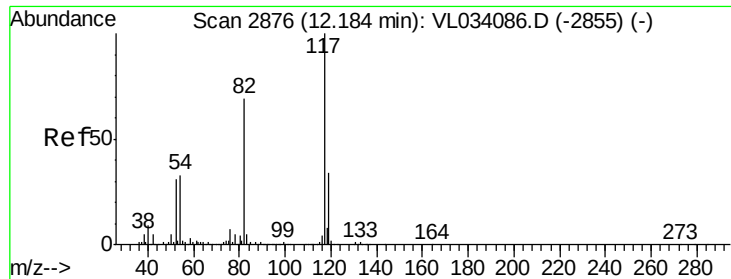
MMDadoda
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#54
1,2-Dibromoethane
Concen: 0.649 ppbv
RT: 10.70 min Scan# 2414
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
107	100		
109	87.7	72.9	109.3





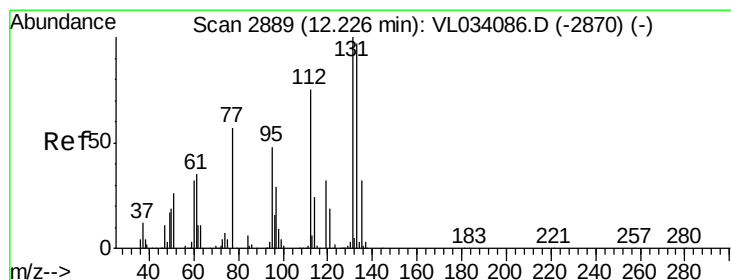
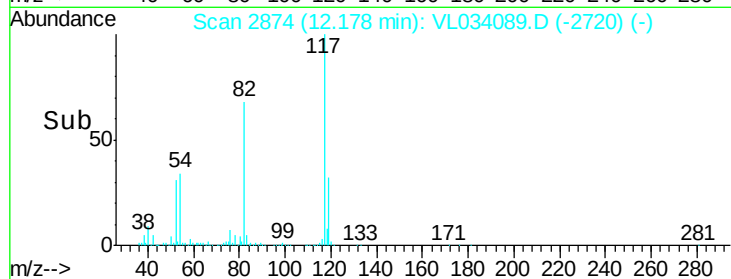
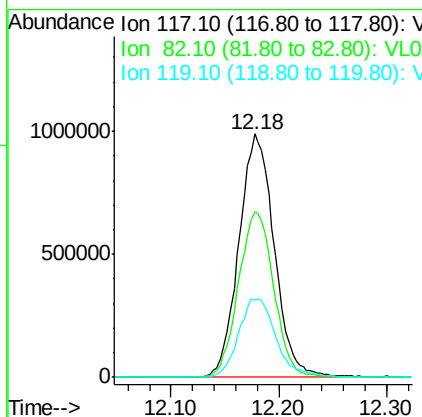
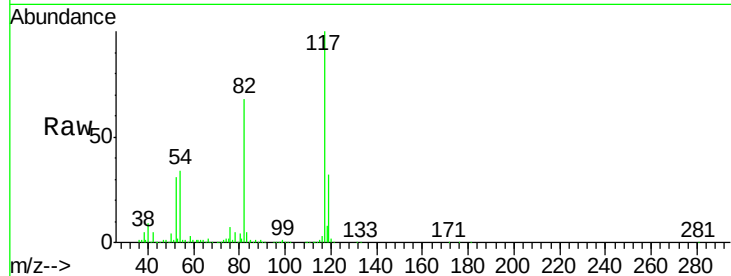
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2874
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.6	52.2	78.4
119	34.6	44.8	67.2#

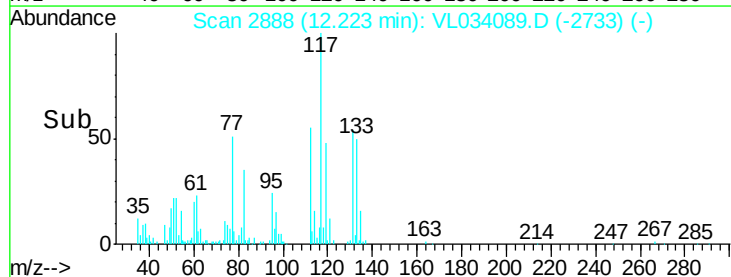
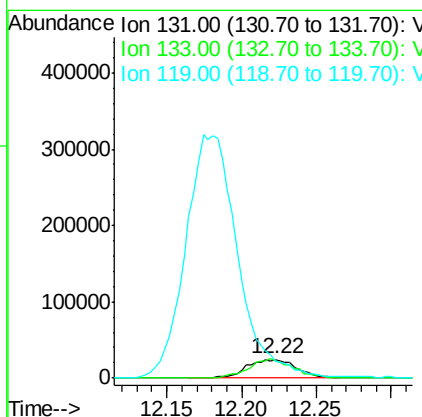
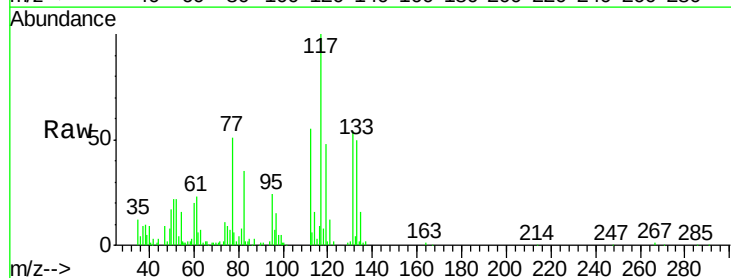
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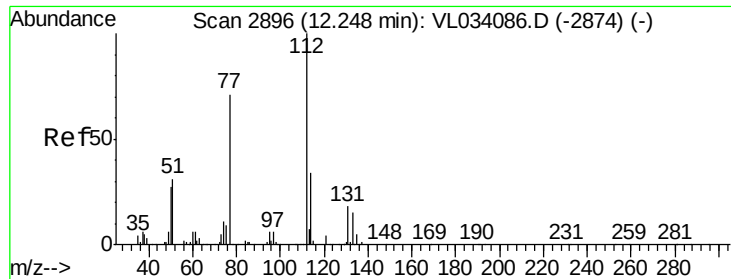
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.572 ppbv
RT: 12.22 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.6	76.5	114.7
119	1369.4	114.7	172.1#





#57

Chlorobenzene

Concen: 0.650 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

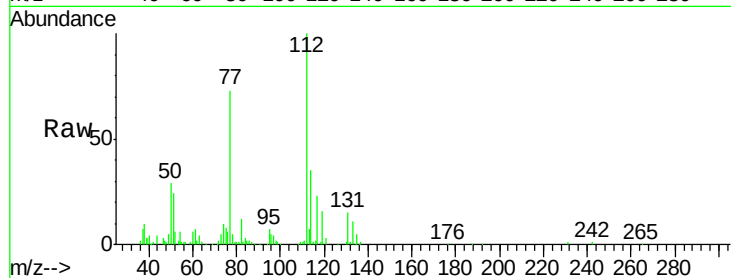
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	119530
Ion Ratio	Lower	Upper	
112	100		
77	70.3	57.8	86.6
114	35.4	30.3	37.1

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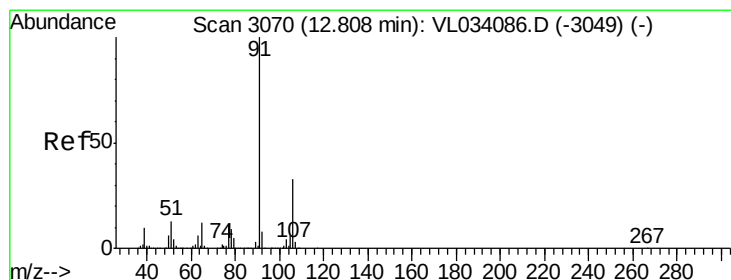
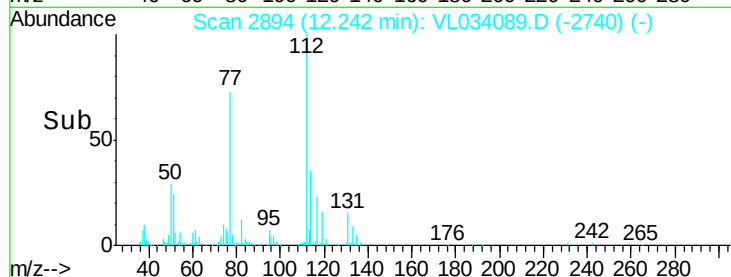
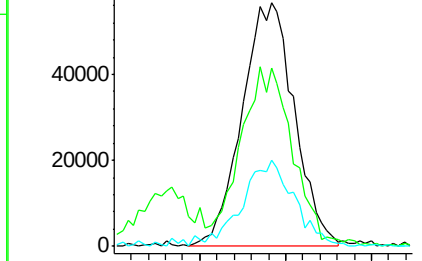
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.752 ppbv

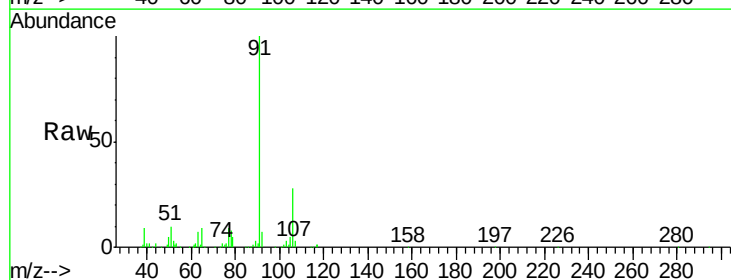
RT: 12.80 min Scan# 3067

Delta R.T. -0.01 min

Lab File: VL034089.D

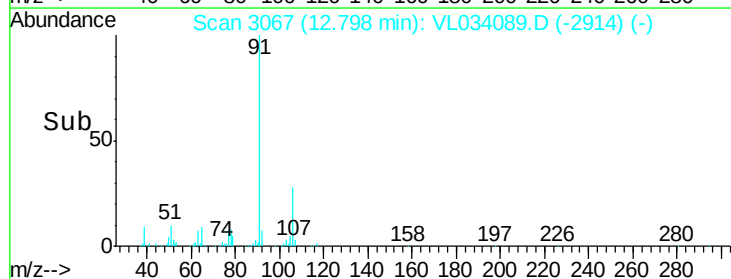
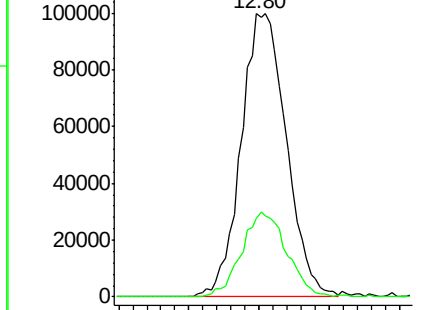
Acq: 5 Aug 2019 14:39

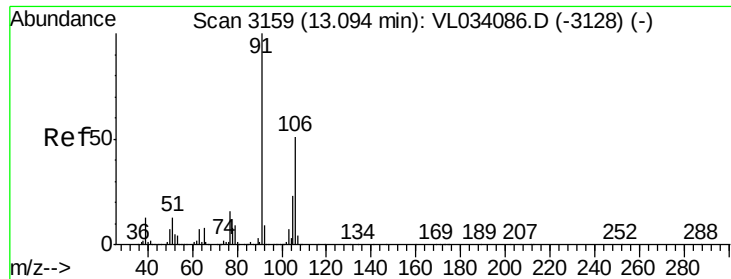
Tgt Ion:	91	Resp:	223667
Ion Ratio	Lower	Upper	
91	100		
106	27.6	26.0	39.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





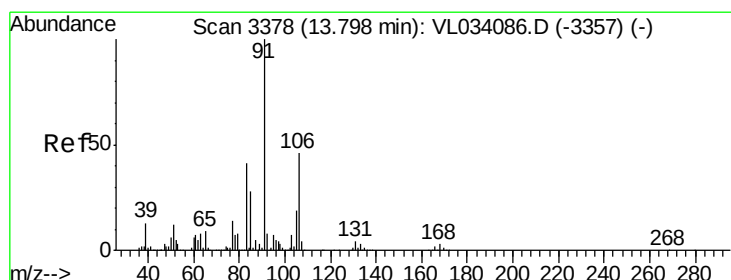
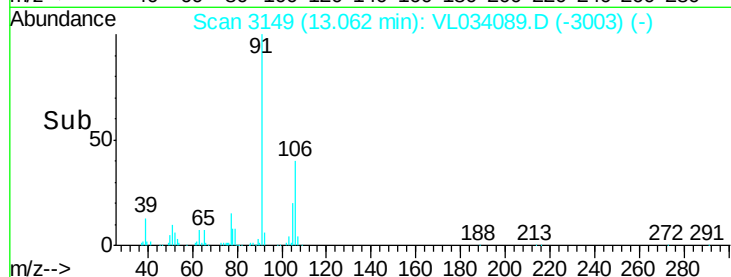
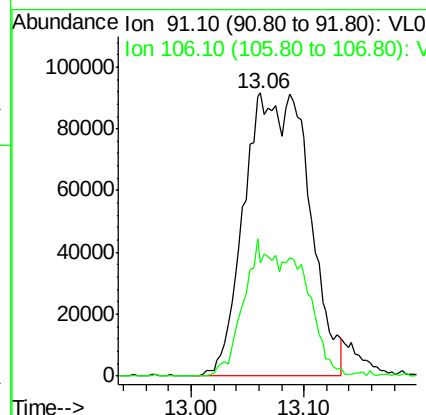
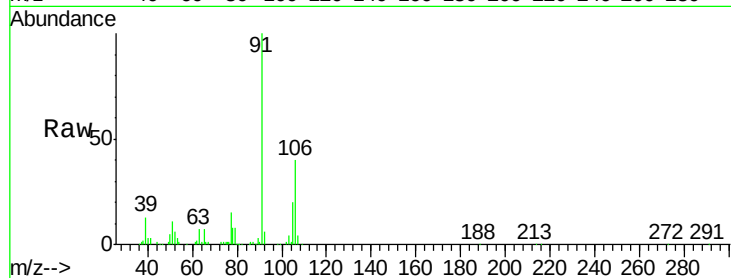
#59
m/p-Xylene
Concen: 1.368 ppbv m
RT: 13.06 min Scan# 3149
Delta R.T. -0.03 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 363508
Ion Ratio Lower Upper
91 100
106 0.0 38.7 58.1#

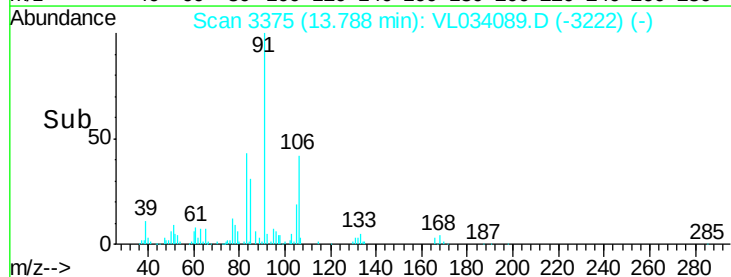
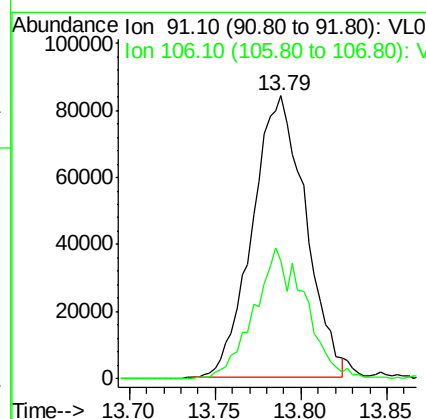
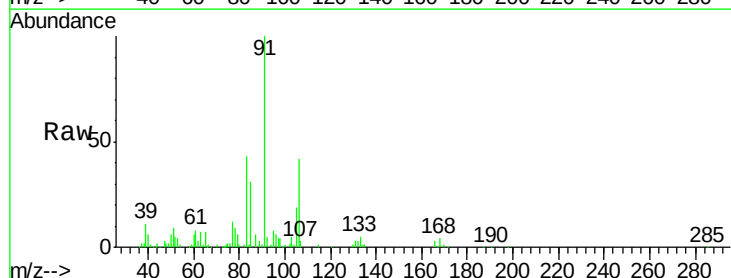
Manual Integrations
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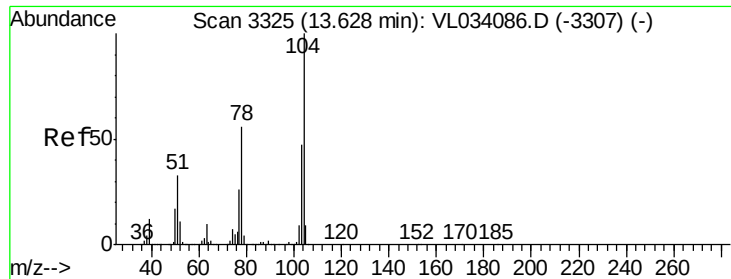
MMDadoda
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#60
o-Xylene
Concen: 0.674 ppbv
RT: 13.79 min Scan# 3375
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion: 91 Resp: 179952
Ion Ratio Lower Upper
91 100
106 45.1 22.6 67.7





#61

Stvrene

Concen: 0.798 ppbv

RT: 13.62 min Scan# 3322

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

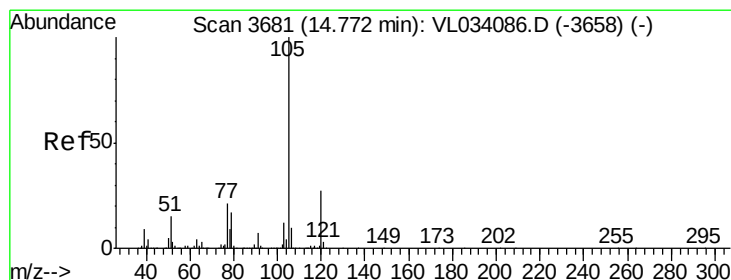
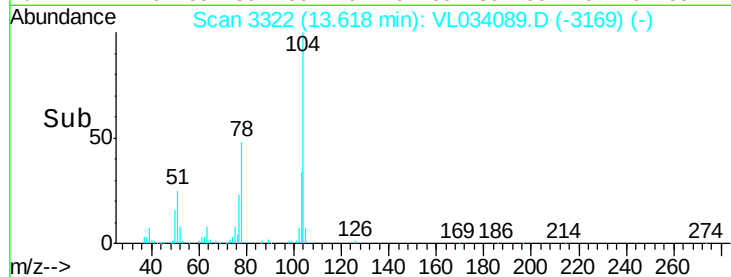
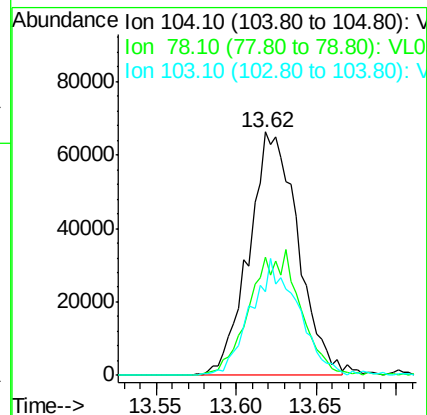
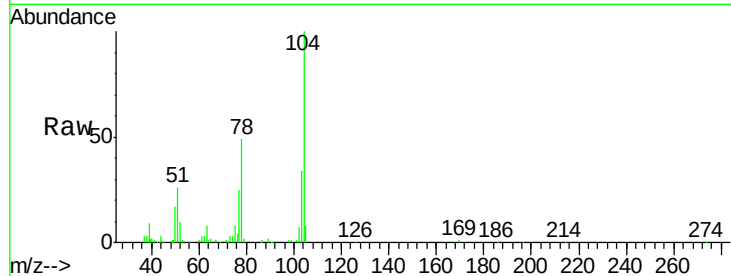
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	139512
Ion Ratio	Lower	Upper	
104	100		
78	52.5	44.2	66.4
103	46.4	38.3	57.5

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.689 ppbv

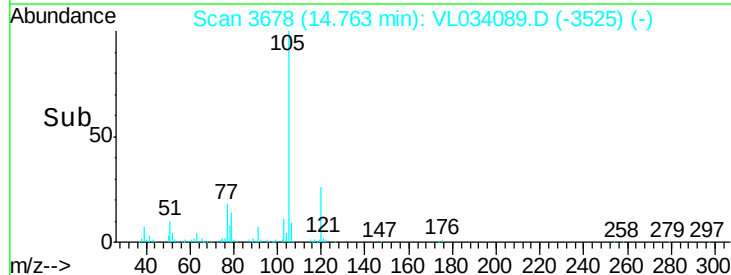
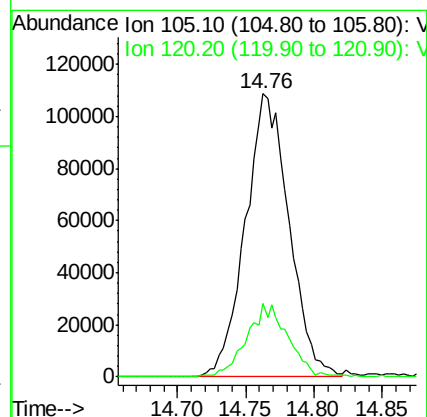
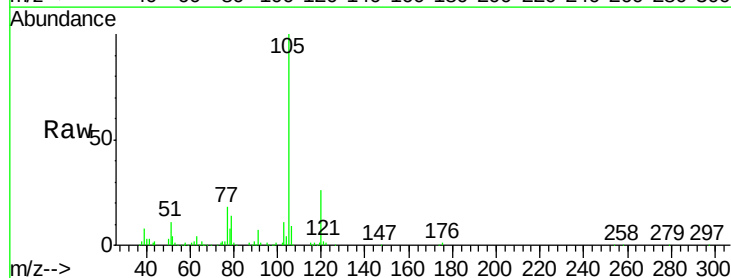
RT: 14.76 min Scan# 3678

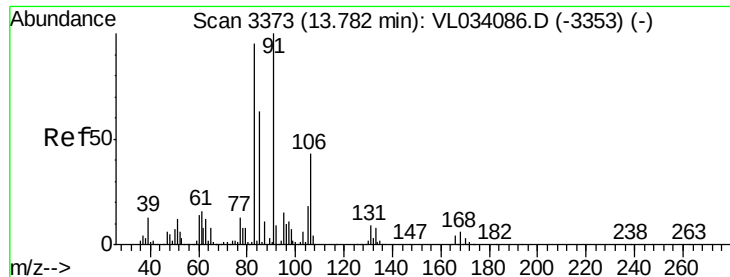
Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	105	Resp:	241662
Ion Ratio	Lower	Upper	
105	100		
120	24.5	21.4	32.2





#63

1,1,2,2-Tetrachloroethane

Concen: 0.607 ppbv m

RT: 13.78 min Scan# 3372

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

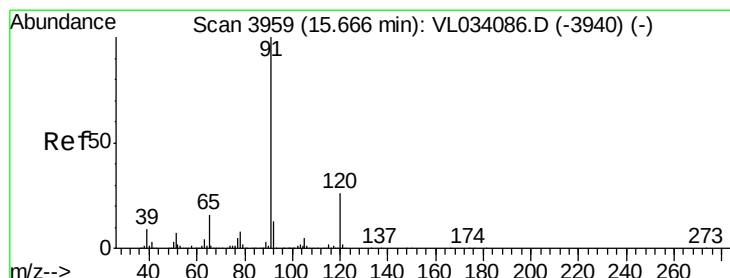
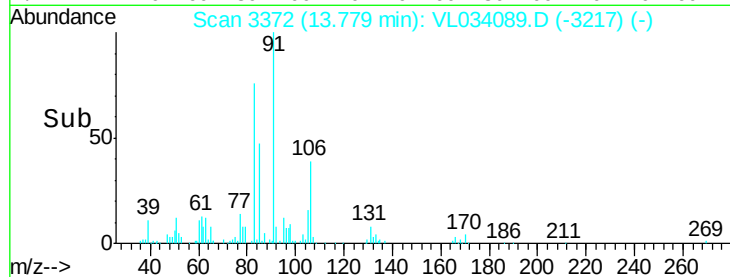
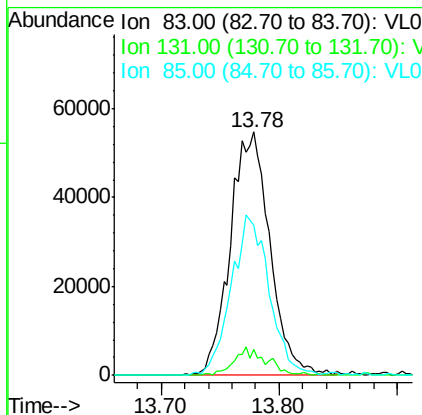
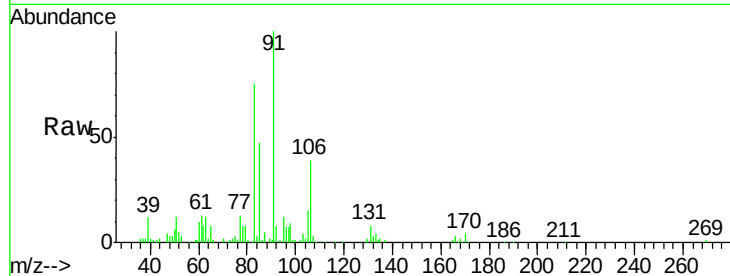
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	127673
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.6	13.8
85	63.4	32.6	97.8

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#64

n-propylbenzene

Concen: 0.697 ppbv m

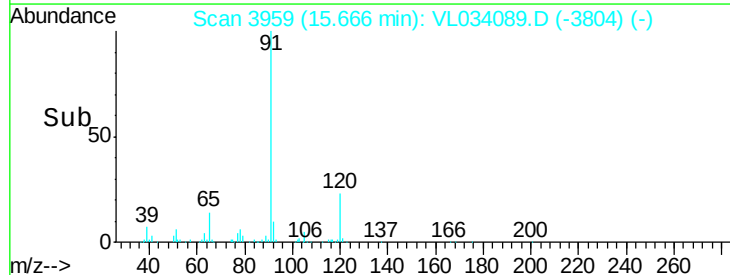
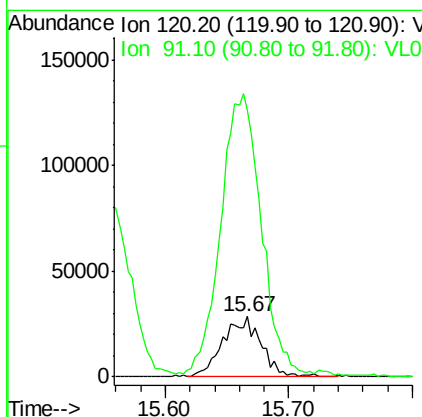
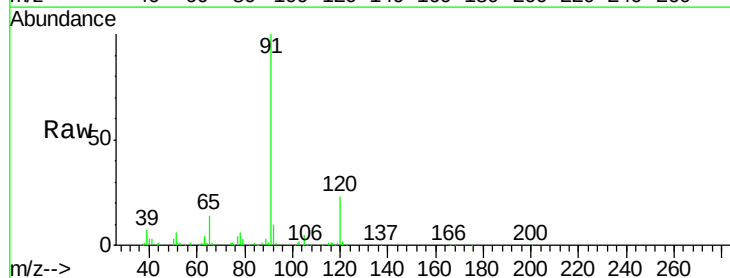
RT: 15.67 min Scan# 3959

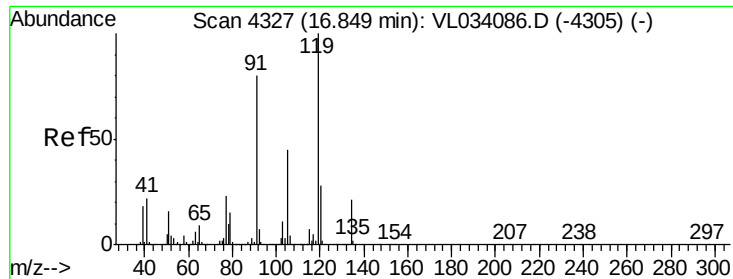
Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:	120	Resp:	61788
Ion Ratio	Lower	Upper	
120	100		
91	494.1	359.7	539.5





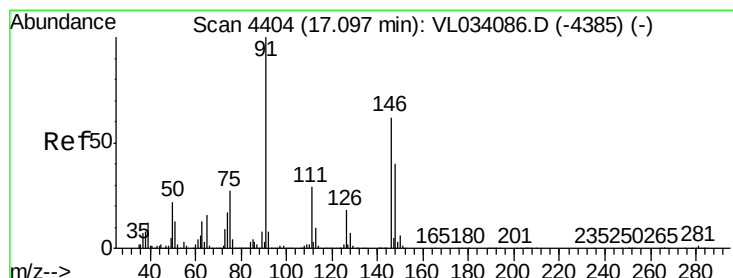
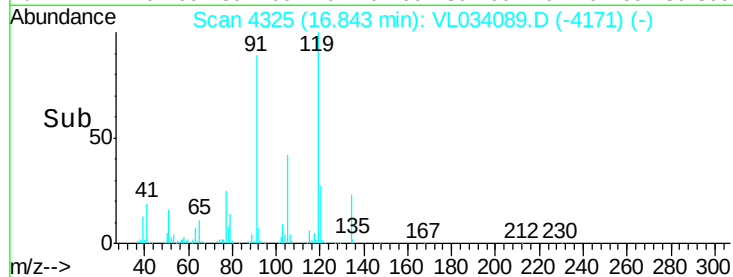
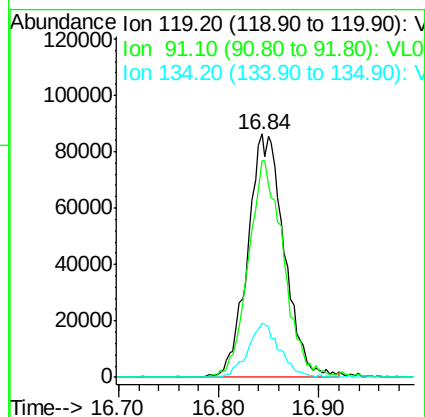
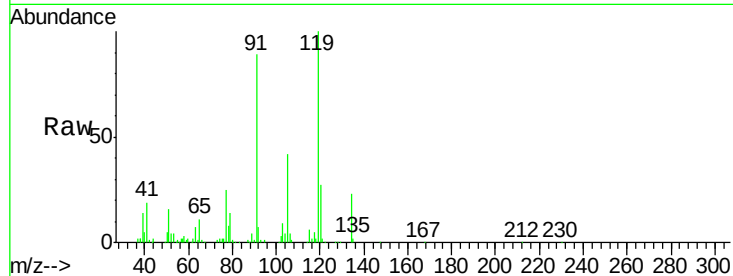
#65
tert-Butylbenzene
Concen: 0.696 ppbv m
RT: 16.84 min Scan# 4325
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	219155		
91	0.0	67.6	101.4#	
134	19.4	16.0	24.0	

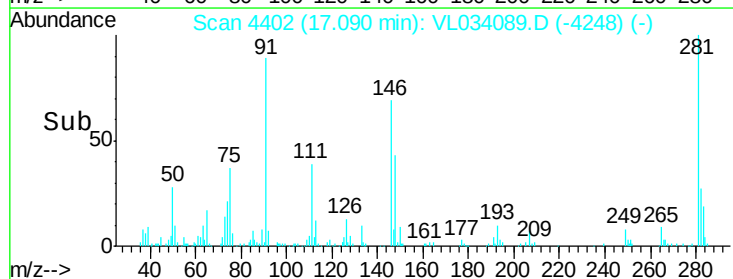
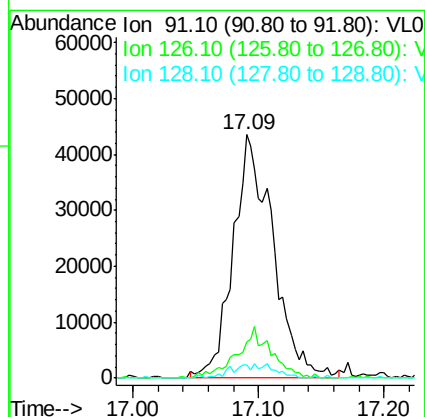
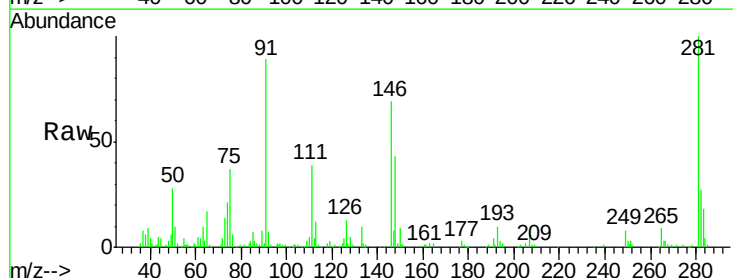
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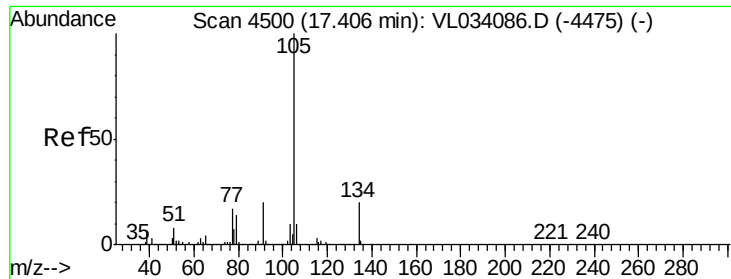
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#66
Benzyl Chloride
Concen: 0.624 ppbv m
RT: 17.09 min Scan# 4402
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	96080		
126	18.1	14.8	22.2	
128	0.0	4.8	7.2#	





#67

sec-Butylbenzene

Concen: 0.686 ppbv

RT: 17.40 min Scan# 4498

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 309346

Ion Ratio Lower Upper

105 100

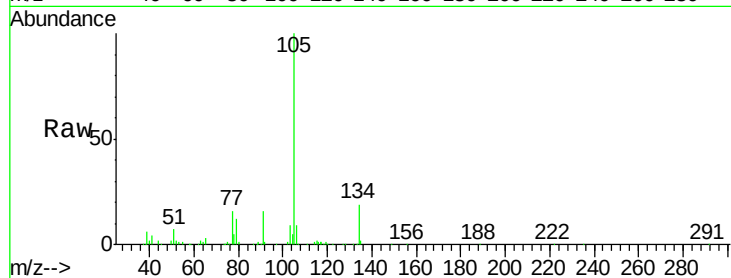
134 17.2 15.4 23.2

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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

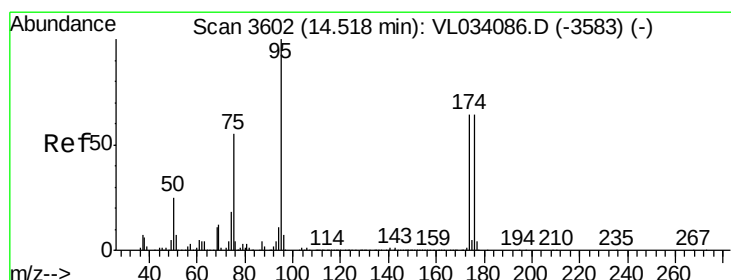
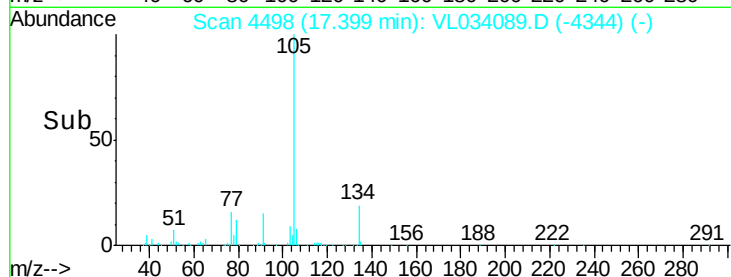
150000

100000

50000

0

Time--> 17.30 17.35 17.40 17.45



#68

1-Bromo-4-Fluorobenzene

Concen: 9.319 ppbv

RT: 14.52 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

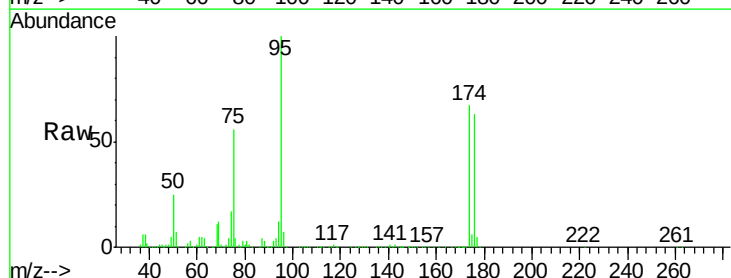
Tgt Ion: 95 Resp: 1855485

Ion Ratio Lower Upper

95 100

174 66.4 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

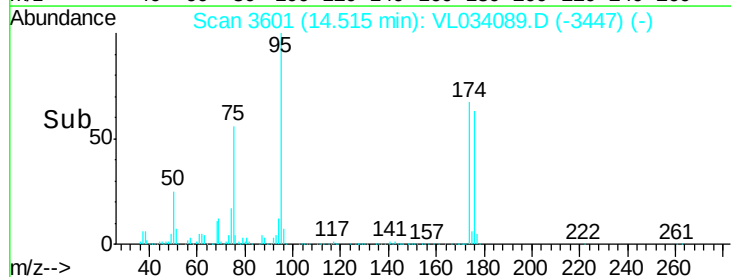
600000

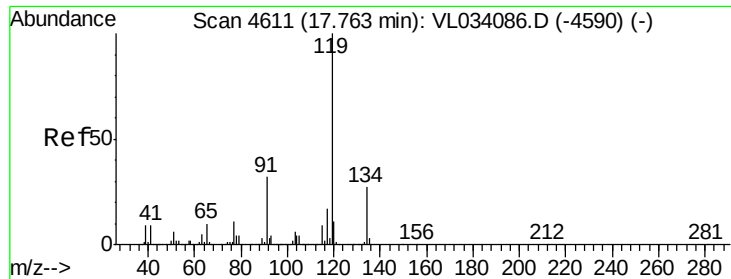
400000

200000

0

Time--> 14.40 14.50 14.60





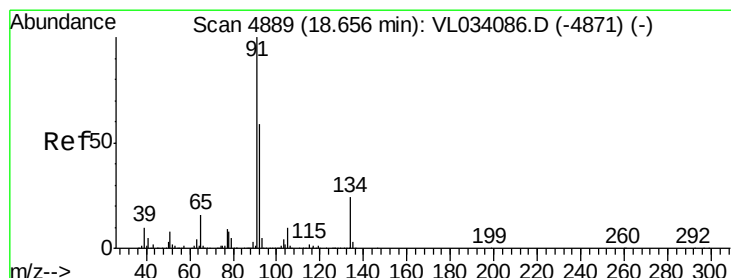
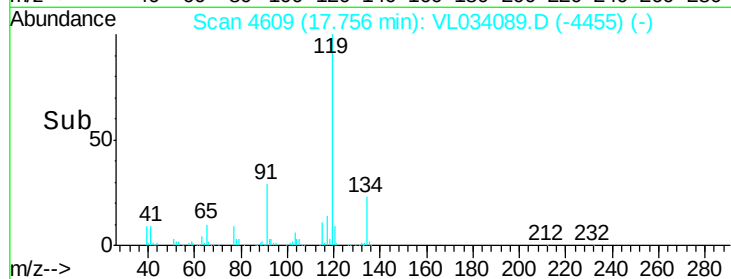
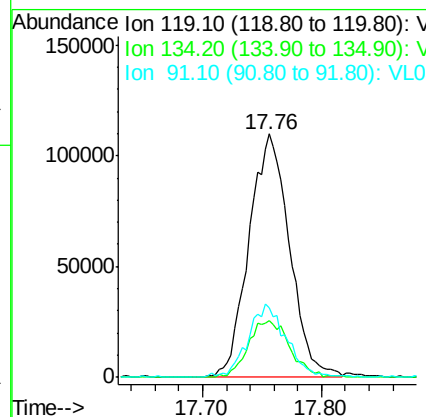
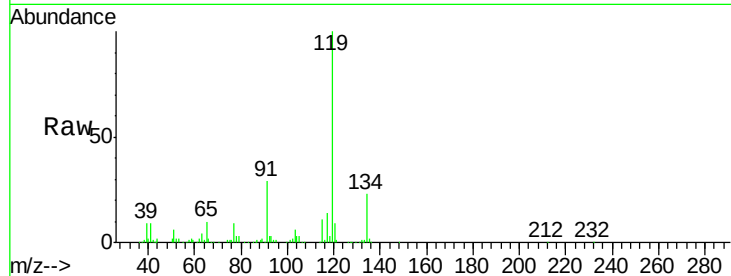
#69
 p-Isopropyltoluene
 Concen: 0.706 ppbv
 RT: 17.76 min Scan# 4609
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.0	21.3	31.9
91	28.8	25.4	38.0

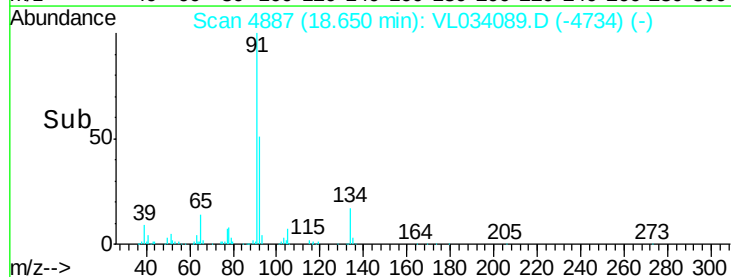
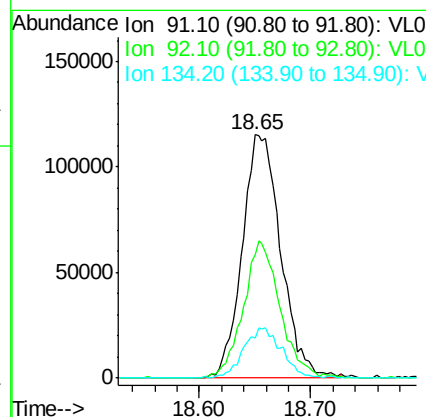
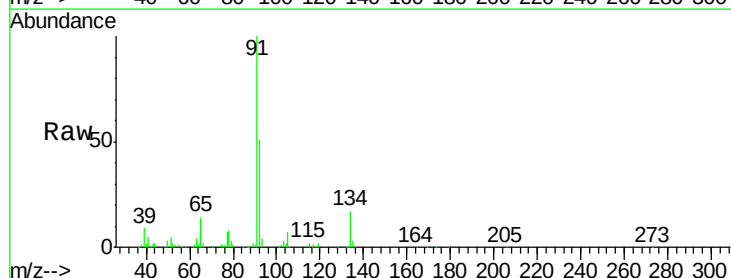
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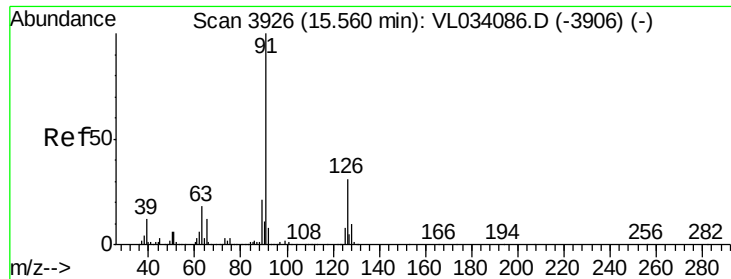
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#70
 n-Butylbenzene
 Concen: 0.691 ppbv m
 RT: 18.65 min Scan# 4887
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	45.9	68.9
134	20.7	19.0	28.4





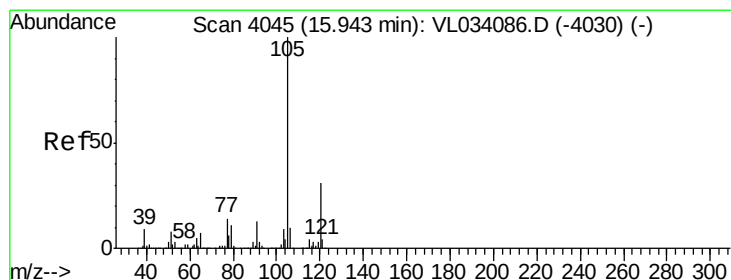
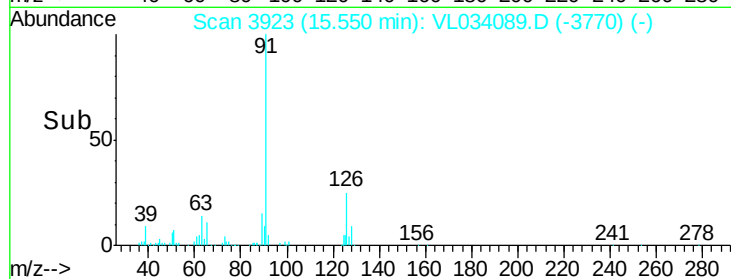
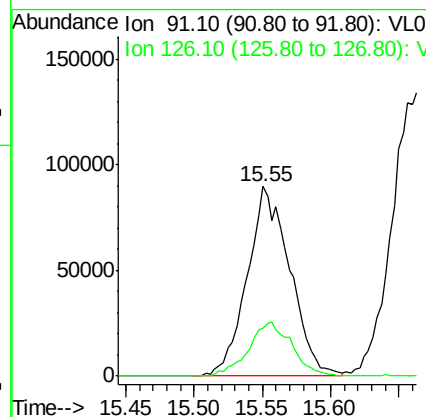
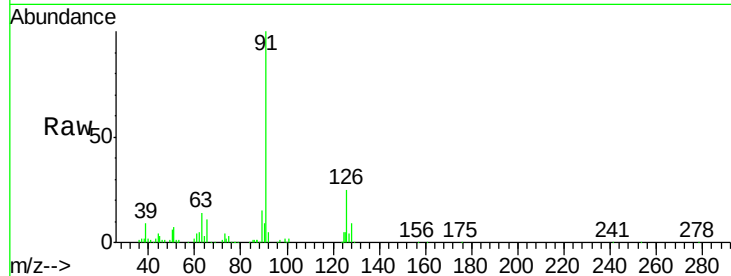
#71
2-Chlorotoluene
Concen: 0.752 ppbv
RT: 15.55 min Scan# 3923
Delta R.T. -0.01 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
126	28.9	12.2	48.6

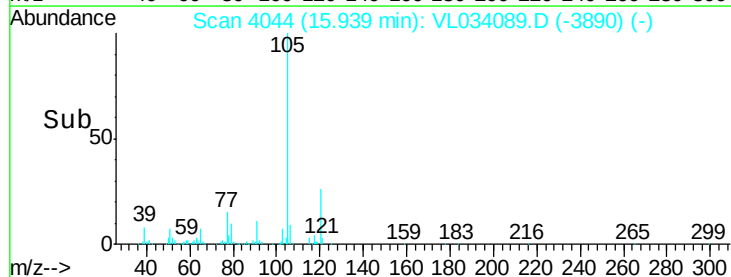
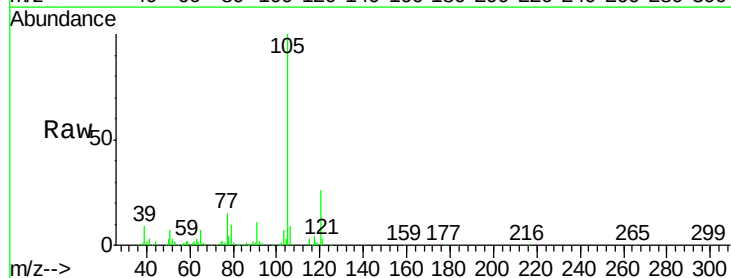
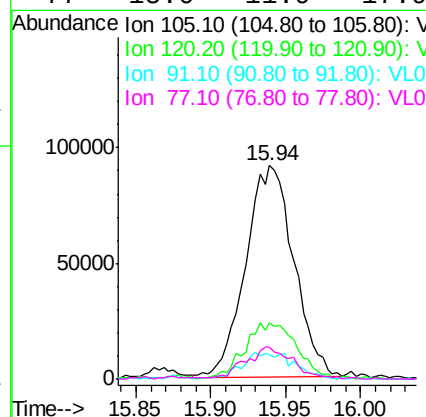
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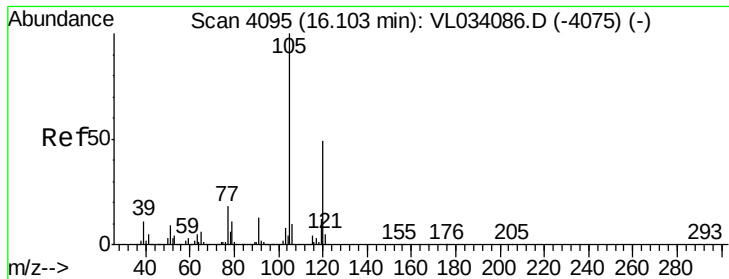
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#72
4-Ethyltoluene
Concen: 0.685 ppbv
RT: 15.94 min Scan# 4044
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.6	24.2	36.2
91	13.8	10.5	15.7
77	15.0	11.9	17.9





#73

1,3,5-Trimethylbenzene

Concen: 0.666 ppbv

RT: 16.09 min Scan# 4092

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 196383

Ion Ratio Lower Upper

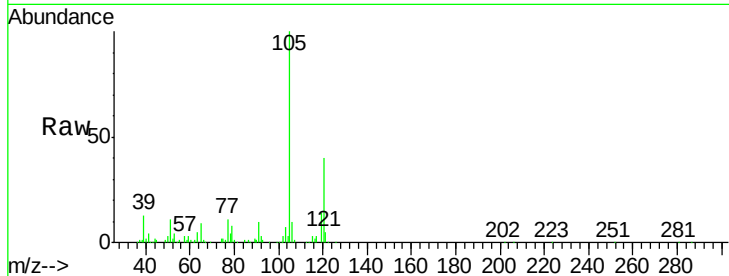
105 100

120 39.6 39.0 58.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.09

100000

80000

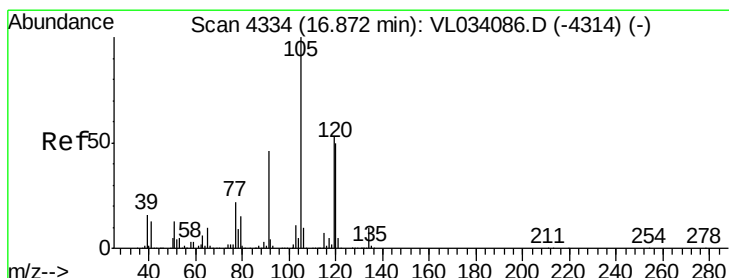
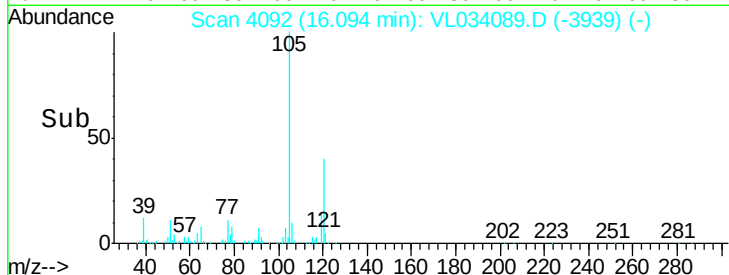
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.667 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Tgt Ion:105 Resp: 217361

Ion Ratio Lower Upper

105 100

120 46.3 40.2 60.4

91 52.4 38.1 57.1

77 21.7 17.8 26.8

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

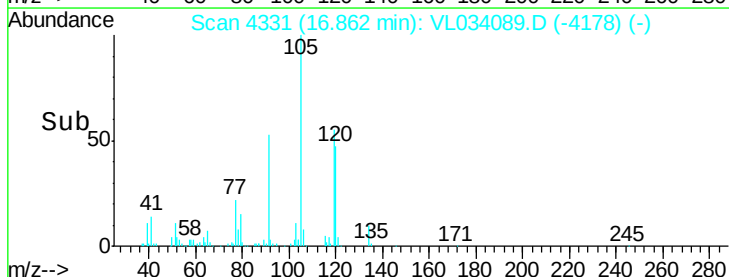
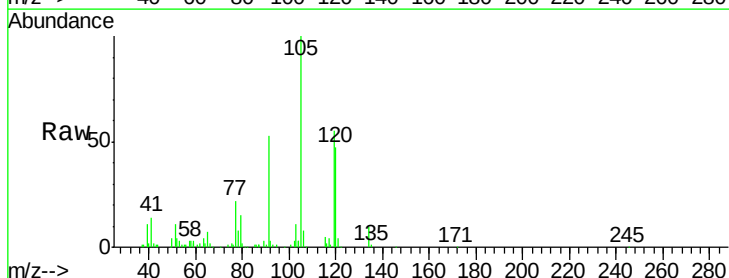
150000

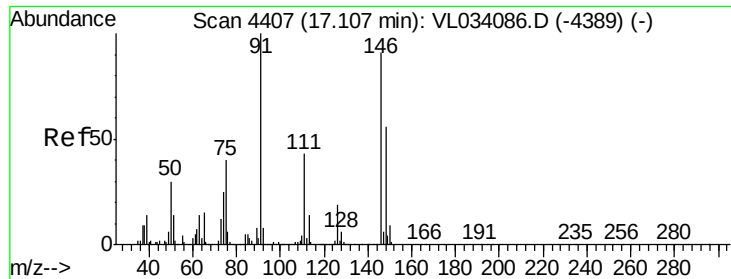
100000

50000

0

Time-->





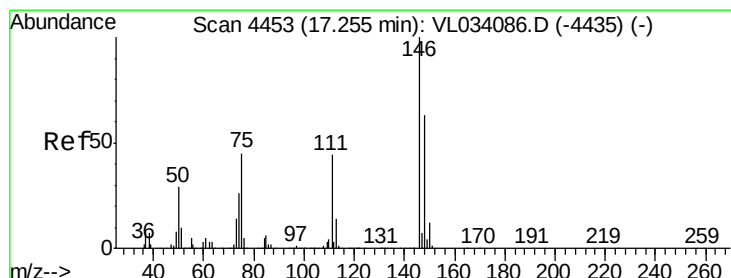
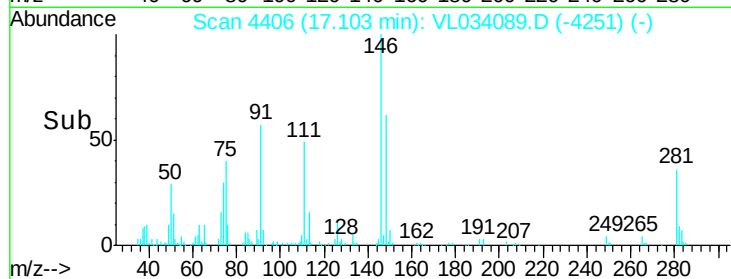
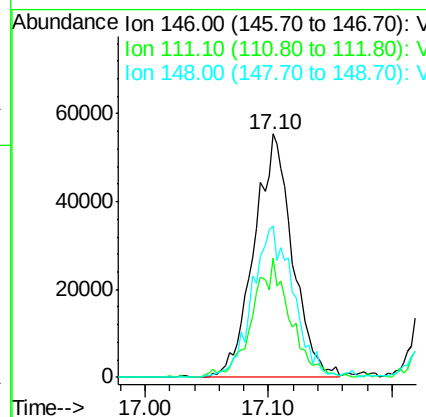
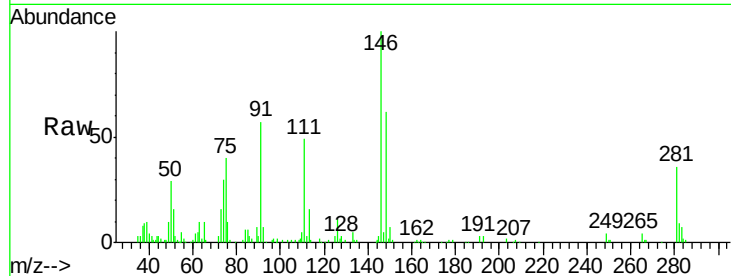
#75
 1,3-Dichlorobenzene
 Concen: 0.619 ppbv m
 RT: 17.10 min Scan# 4406
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.8	71.5#
148	0.0	32.4	97.2#

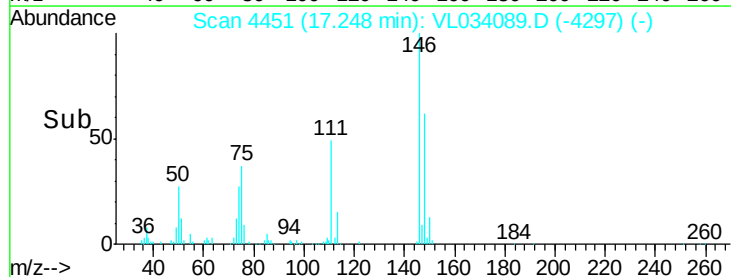
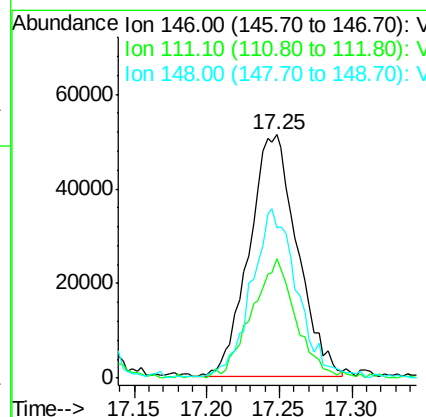
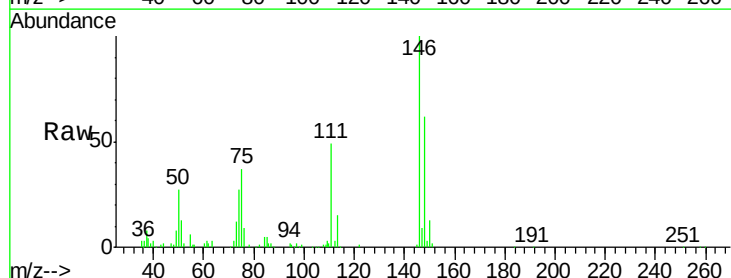
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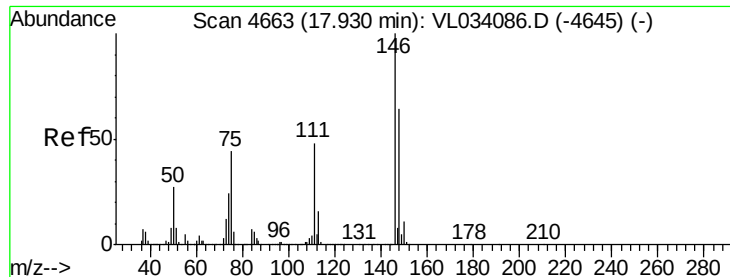
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#76
 1,4-Dichlorobenzene
 Concen: 0.651 ppbv
 RT: 17.25 min Scan# 4451
 Delta R.T. -0.01 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	23.2	69.5
148	67.5	32.1	96.5





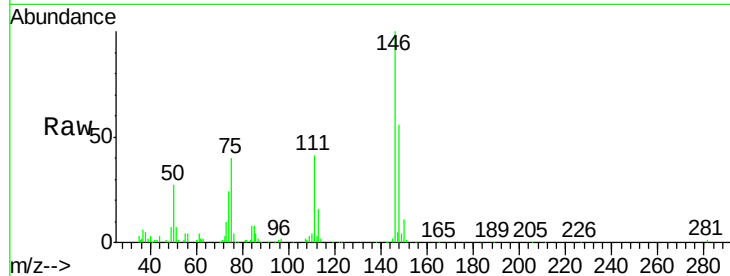
#77
 1,2-Dichlorobenzene
 Concen: 0.635 ppbv
 RT: 17.93 min Scan# 4662
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

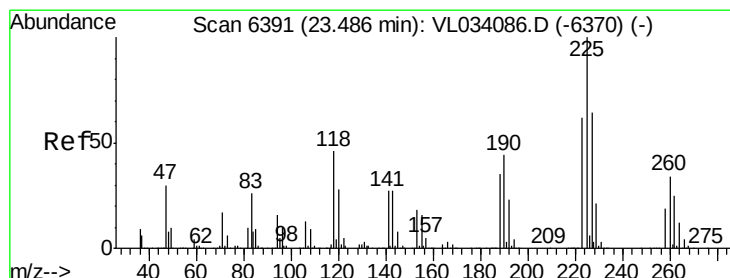
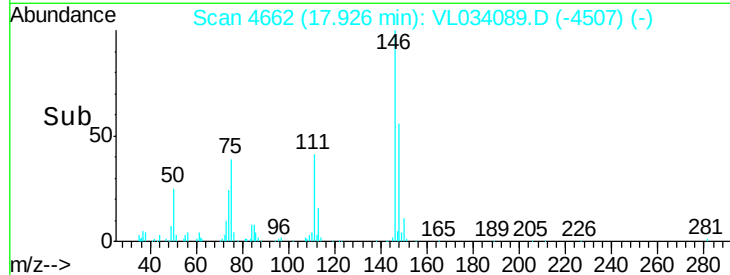
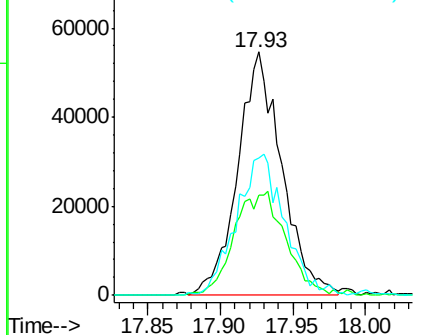
Tot Ion	Ratio	Lower	Upper
146	100		
111	50.5	24.0	72.0
148	63.8	31.9	95.7

Manual Integrations
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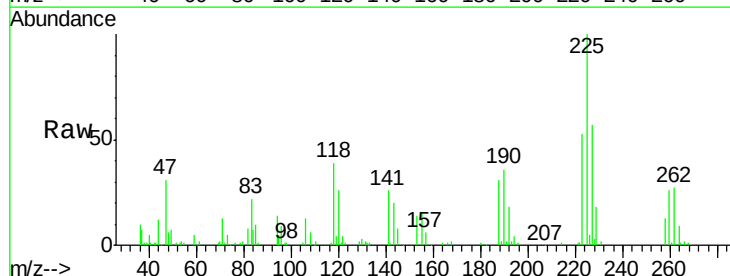


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

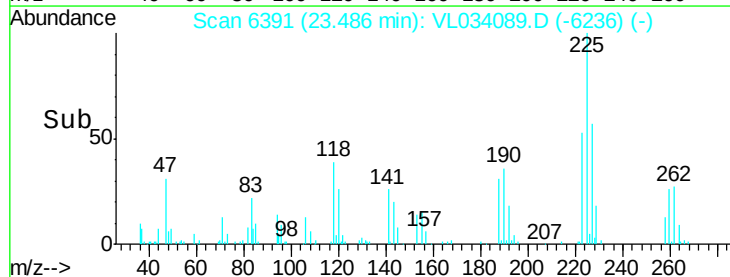
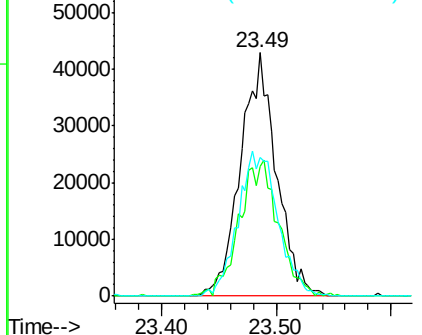


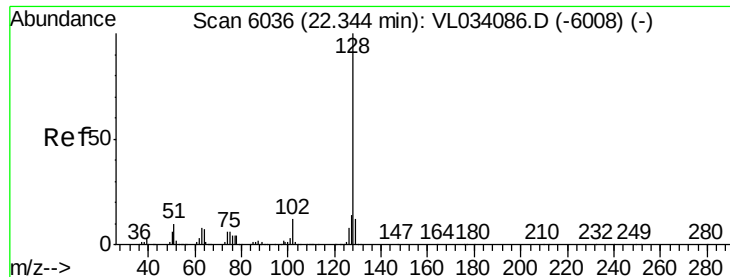
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.560 ppbv m
 RT: 23.49 min Scan# 6391
 Delta R.T. -0.00 min
 Lab File: VL034089.D
 Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.8	76.2#
227	66.2	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





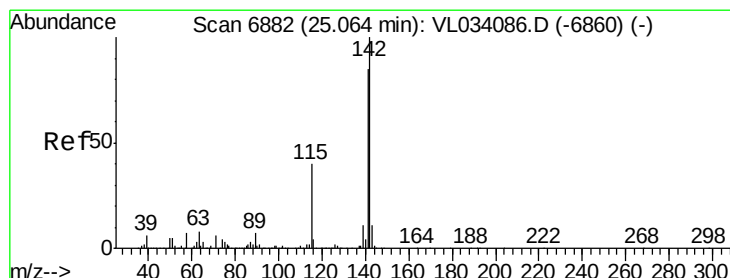
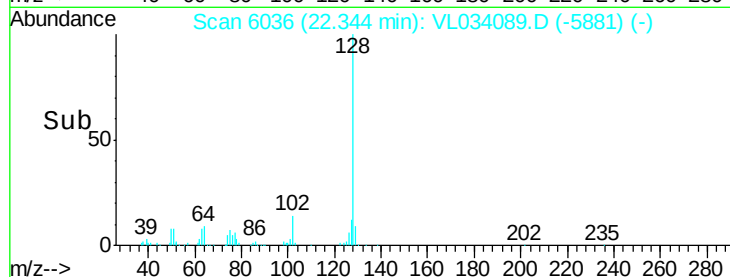
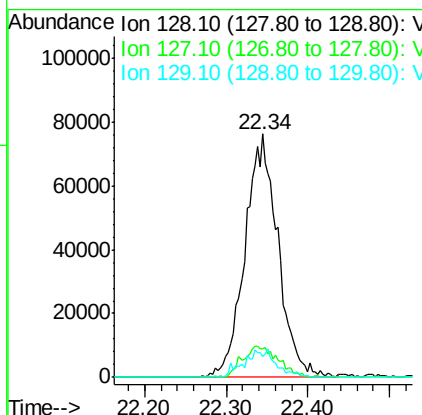
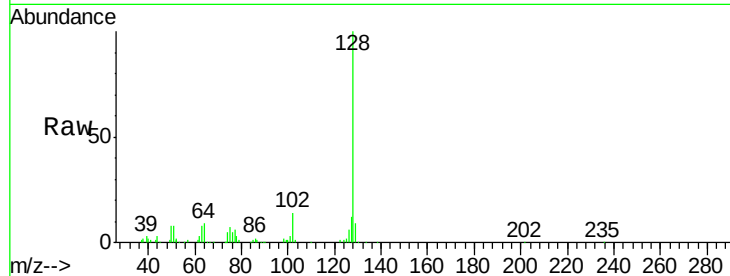
#79
Naphthalene
Concen: 0.737 ppbv m
RT: 22.34 min Scan# 6036
Delta R.T. -0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
128	100	215284		
127	11.8		11.0	16.6
129	8.8		9.2	13.8

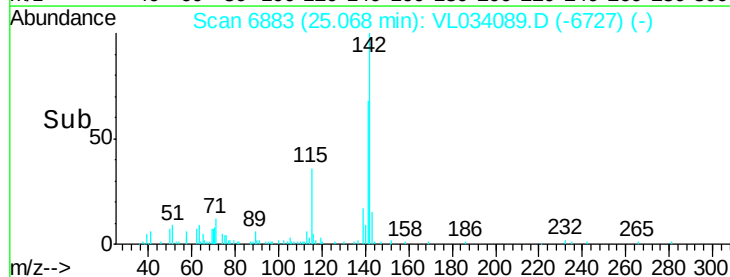
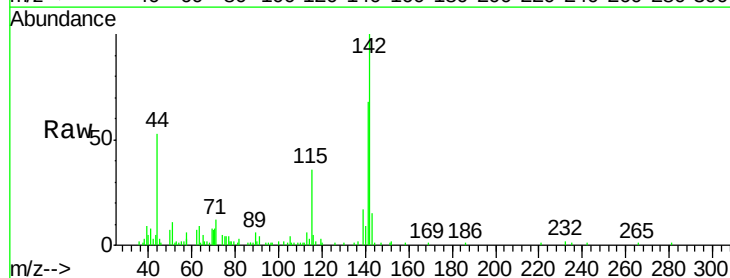
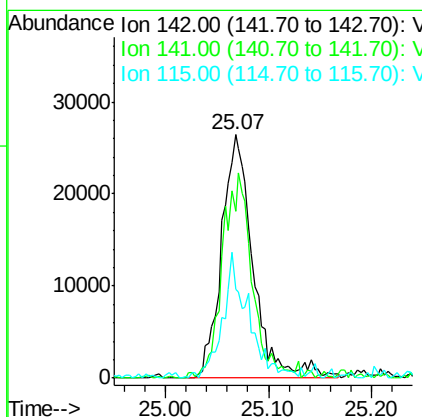
Manual Integrations
APPROVED

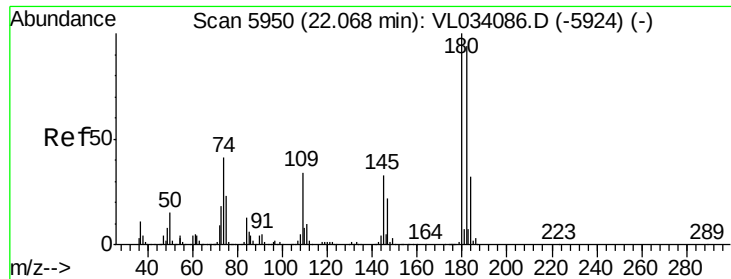
MMDadoda
8/8/2019 12:41:20 PM



#80
Naphthalene, 2-methyl-
Concen: 0.502 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. 0.00 min
Lab File: VL034089.D
Acq: 5 Aug 2019 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	56296		
141	78.0		66.1	99.1
115	41.8		30.8	46.2





#81

1,2,4-Trichlorobenzene

Concen: 0.689 ppbv m

RT: 22.06 min Scan# 5949

Delta R.T. -0.00 min

Lab File: VL034089.D

Acq: 5 Aug 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:	180	Resp:	124443
Ion Ratio	Lower	Upper	
180	100		
182	94.9	76.7	115.1
184	31.0	25.0	37.4

Manual Integrations
APPROVED

MMDadoda
8/8/2019 12:41:20 PM

