

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034844.D
 Acq On : 9 Mar 2020 14:13
 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

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 3/11/2020 3:26:02 PM

Quant Time: Mar 09 15:48:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 15:48:31 2020
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	925375	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2132118	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2105955	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1687867	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	88180	0.584	ppbv	100
3) Chlorodifluoromethane	2.94	51	57104	0.542	ppbv	99
4) Chloromethane	3.10	50	29454	0.519	ppbv	91
5) Vinyl Chloride	3.22	62	28247	0.471	ppbv #	87
6) Bromomethane	3.44	94	17204	0.525	ppbv	84
7) Chloroethane	3.52	64	10395	0.501	ppbv	100
8) Dichlorotetrafluoroethane	3.15	85	72609	0.553	ppbv	99
9) Propene	2.97	41	27971	0.674	ppbv	92
10) Heptane	8.13	43	59687	0.566	ppbv	96
11) Trichlorofluoromethane	3.92	101	73792	0.546	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	53558	0.574	ppbv	96
13) Ethanol	3.58	45	9050	0.637	ppbv	74
14) Bromoethene	3.70	108	20669	0.540	ppbv	91
15) Acetone	3.84	43	65038	0.587	ppbv	93
16) 1,3-Butadiene	3.29	39	29673m	0.592	ppbv	
17) tert-Butyl alcohol	4.29	59	70140	0.803	ppbv	100
18) 1,1-Dichloroethene	4.26	96	21031	0.511	ppbv	96
19) Isopropyl Alcohol	3.95	45	46101	0.694	ppbv #	40
20) Methylene Chloride	4.32	84	22224	0.562	ppbv #	84
21) Allyl Chloride	4.38	41	41532	0.592	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	22670	0.565	ppbv	89
23) Vinyl Acetate	5.06	43	90255	0.607	ppbv #	96
24) 1,1-Dichloroethane	4.99	63	62986	0.546	ppbv #	96
25) Ethyl Acetate	5.67	43	113045	0.590	ppbv	98
26) Hexane	5.67	57	49323m	0.590	ppbv	
27) Carbon Disulfide	4.53	76	49878	0.510	ppbv #	81
28) Methyl tert-Butyl Ether	5.02	73	76366	0.613	ppbv	99
29) Chloroform	5.74	83	75197	0.534	ppbv	90
30) Cyclohexane	7.13	84	40005m	0.625	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	47519	0.554	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	73138m	0.526	ppbv	
34) 2-Butanone	5.24	43	73698	0.531	ppbv	99
35) Carbon Tetrachloride	7.01	117	70977	0.441	ppbv	87
36) Benzene	6.89	78	99728	0.547	ppbv	97
37) 1,2-Dichloroethane	6.30	62	55706	0.448	ppbv	97
38) Trichloroethene	7.84	130	38488	0.542	ppbv	90
39) 1,2-Dichloropropane	7.62	63	40391m	0.549	ppbv	
40) 1,4-Dioxane	7.87	88	17755m	0.698	ppbv	
41) Tetrahydrofuran	6.06	42	36334	0.513	ppbv	95
42) Bromodichloromethane	7.80	83	71054	0.451	ppbv	93
43) Methyl Methacrylate	8.02	69	40321	0.522	ppbv	99

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Manual Integrations
 APPROVED

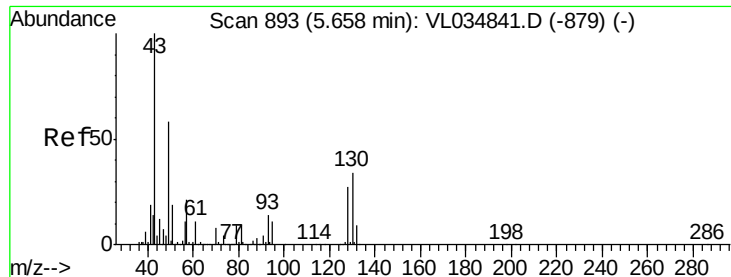
MMDadoda
 3/11/2020 3:26:02 PM

Quant Time: Mar 09 15:48:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.87	57	166470	0.523	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	42349	0.523	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	52740m	0.533	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	39574m	0.510	ppbv	
48) Dibromochloromethane	10.32	129	58551	0.482	ppbv	99
49) Bromoform	13.08	173	49783m	0.470	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	101965	0.513	ppbv	99
51) 2-Hexanone	10.17	43	81474m	0.523	ppbv	
52) Tetrachloroethene	11.24	164	38697m	0.575	ppbv	
53) Toluene	9.82	91	111391	0.578	ppbv	98
54) 1,2-Dibromoethane	10.63	107	57512	0.501	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.15	131	50674	0.543	ppbv #	1
57) Chlorobenzene	12.17	112	92660	0.576	ppbv #	90
58) Ethyl Benzene	12.74	91	152460	0.587	ppbv	89
59) m/p-Xylene	13.02	91	265672m	1.183	ppbv	
60) o-Xylene	13.72	91	126961	0.559	ppbv	97
61) Styrene	13.55	104	79606m	0.565	ppbv	
62) Isopropylbenzene	14.70	105	192625	0.576	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.71	83	88459m	0.494	ppbv	
64) n-propylbenzene	15.60	120	49209	0.587	ppbv	92
65) tert-Butylbenzene	16.78	119	163740m	0.579	ppbv	
66) Benzyl Chloride	17.03	91	58256m	0.637	ppbv	
67) sec-Butylbenzene	17.33	105	215685	0.524	ppbv	100
69) p-Isopropyltoluene	17.69	119	180112m	0.540	ppbv	
70) n-Butylbenzene	18.59	91	186556	0.512	ppbv	95
71) 2-Chlorotoluene	15.49	91	141709	0.561	ppbv	98
72) 4-Ethyltoluene	15.88	105	146182m	0.578	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	135367m	0.558	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	139922m	0.530	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	87071m	0.557	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	84218m	0.563	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	83208m	0.557	ppbv	
78) Hexachloro-1,3-Butadiene	23.41	225	69538m	0.558	ppbv	
79) Naphthalene	22.26	128	83976m	0.423	ppbv	
80) Naphthalene,2-methyl-	25.02	142	7203	0.152	ppbv #	77
81) 1,2,4-Trichlorobenzene	21.98	180	62556m	0.499	ppbv	

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



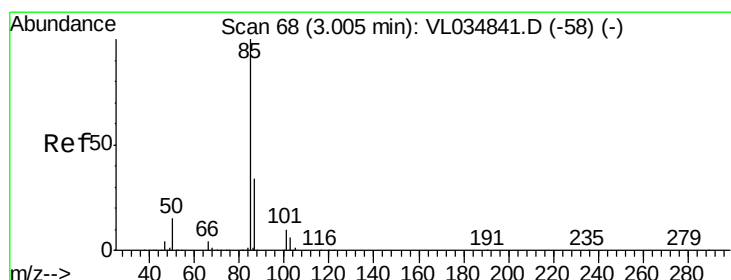
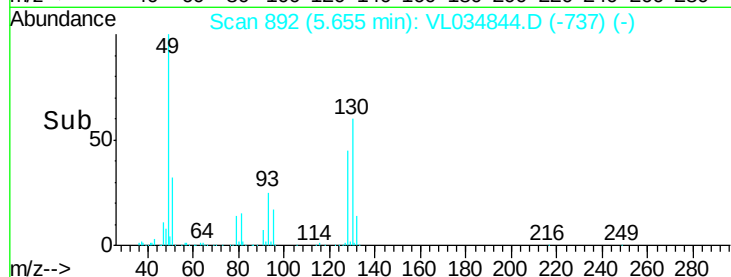
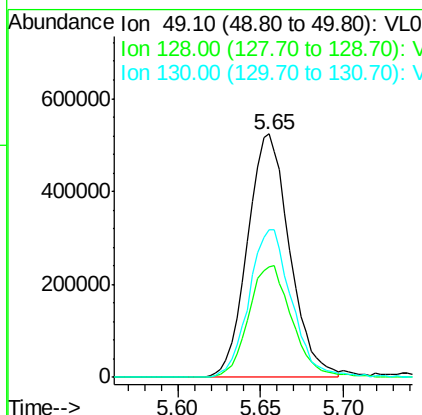
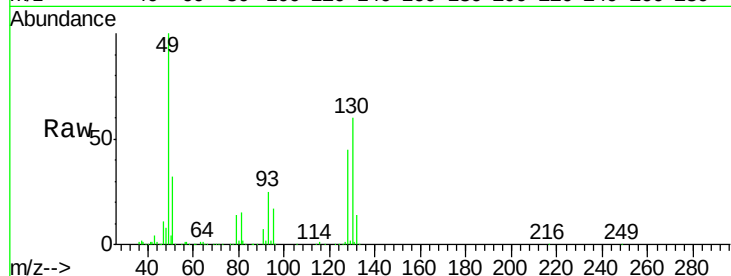
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.4	70.3
130	62.1	30.0	90.0

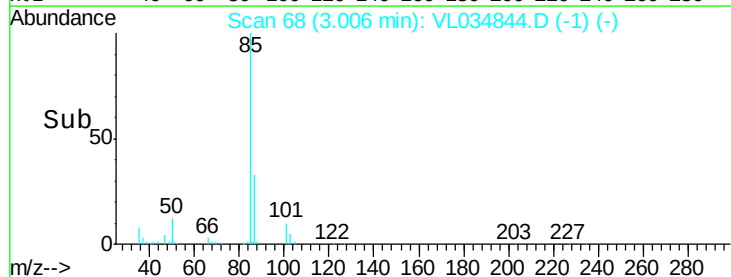
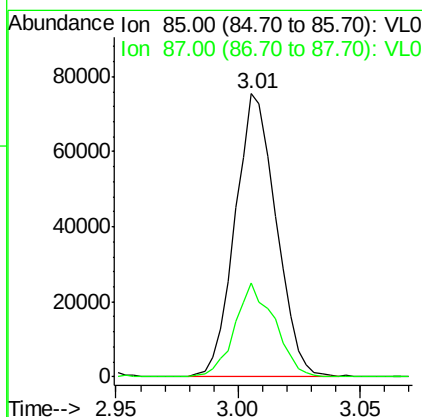
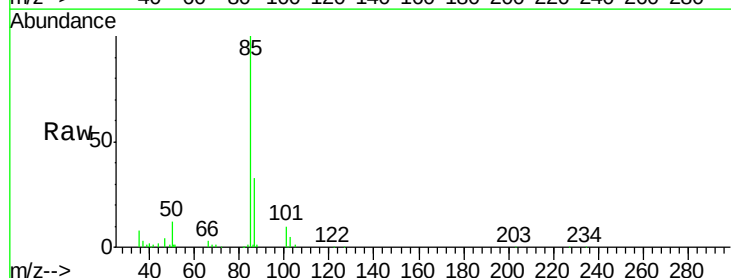
Manual Integrations
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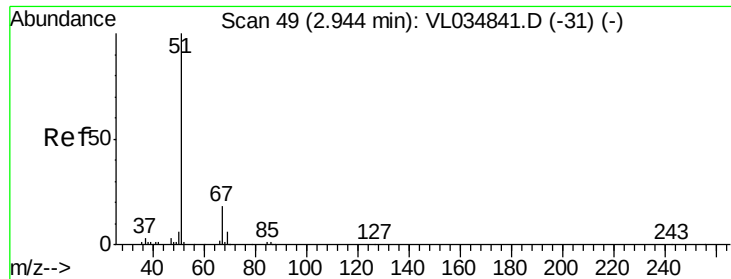
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#2
Dichlorodifluoromethane
Concen: 0.584 ppbv
RT: 3.01 min Scan# 68
Delta R.T. 0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.542 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 57104

Ion Ratio Lower Upper

51 100

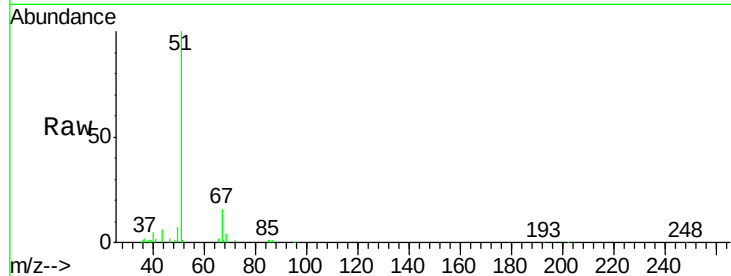
67 18.2 14.3 21.5

Manual Integrations

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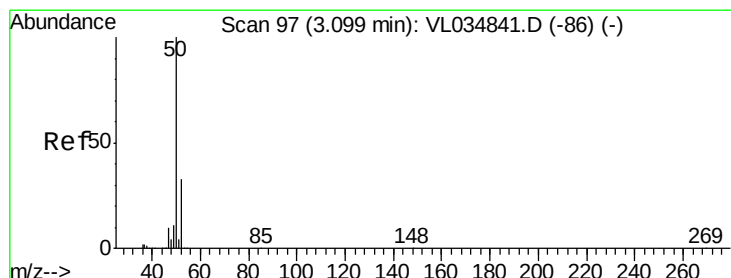
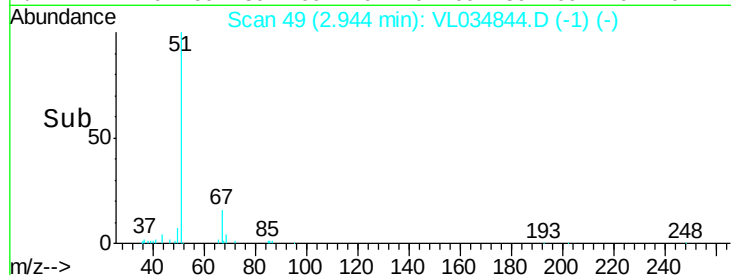
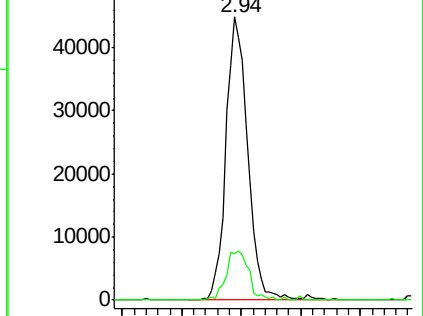
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.519 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034844.D

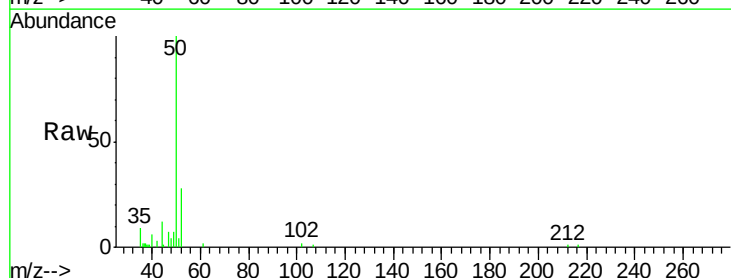
Acq: 9 Mar 2020 14:13

Tgt Ion: 50 Resp: 29454

Ion Ratio Lower Upper

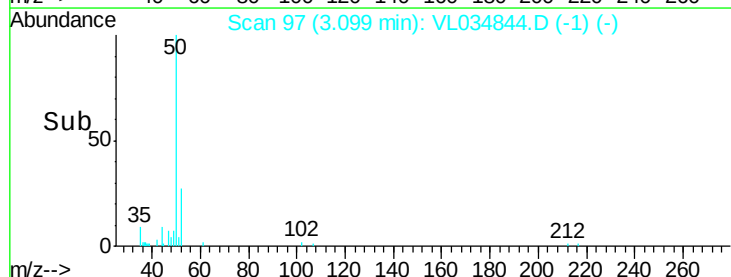
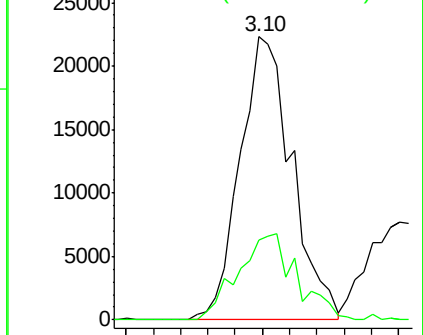
50 100

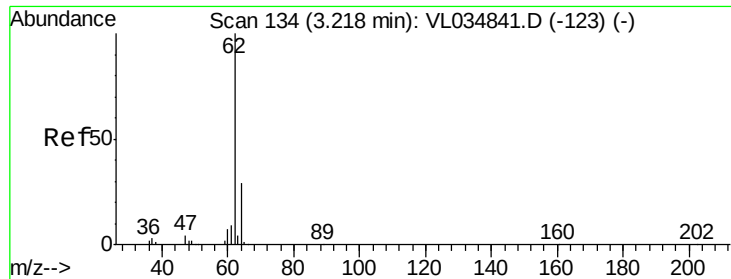
52 28.2 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.471 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 28247

Ion Ratio Lower Upper

62 100

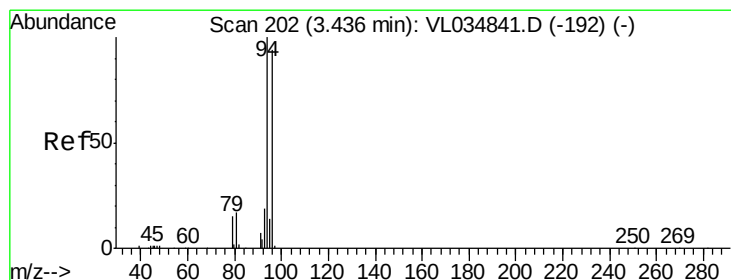
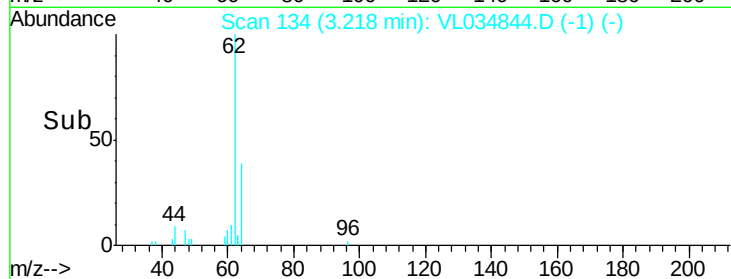
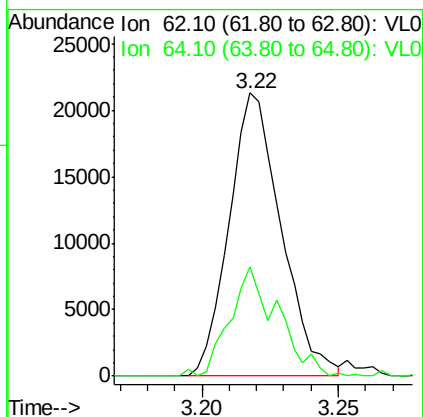
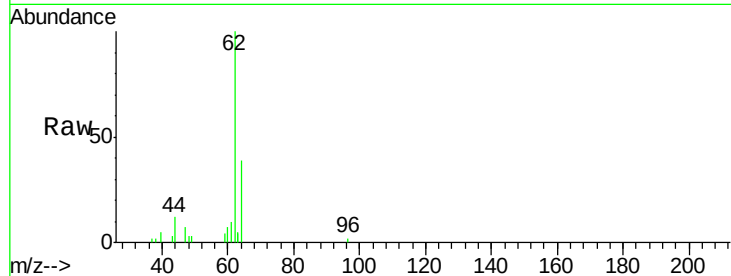
64 35.9 23.0 34.4#

Manual Integrations

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#6

Bromomethane

Concen: 0.525 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL034844.D

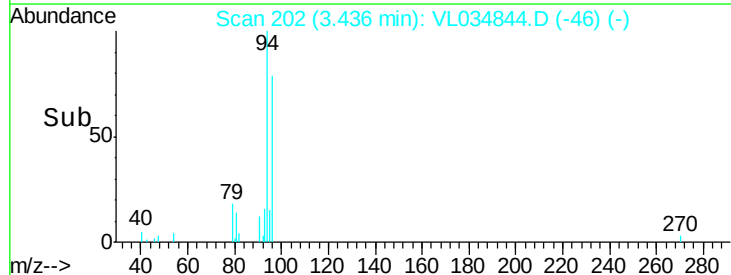
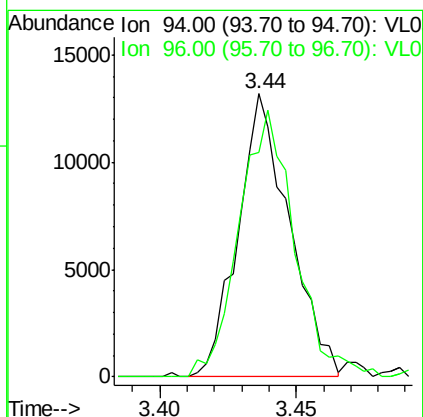
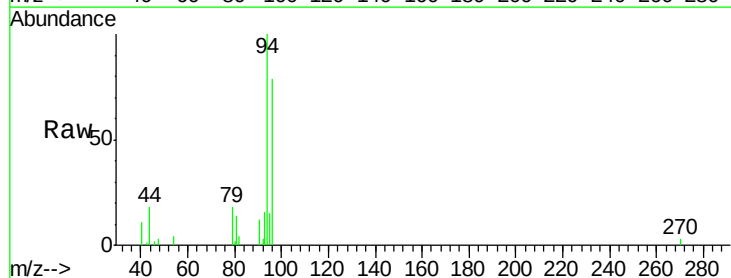
Acq: 9 Mar 2020 14:13

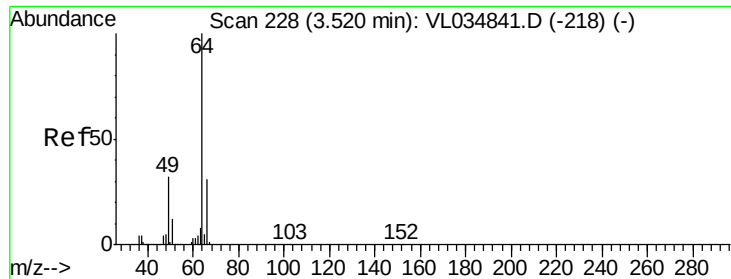
Tgt Ion: 94 Resp: 17204

Ion Ratio Lower Upper

94 100

96 79.1 75.5 113.3





#7

Chloroethane

Concen: 0.501 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 10395

Ion Ratio Lower Upper

64 100

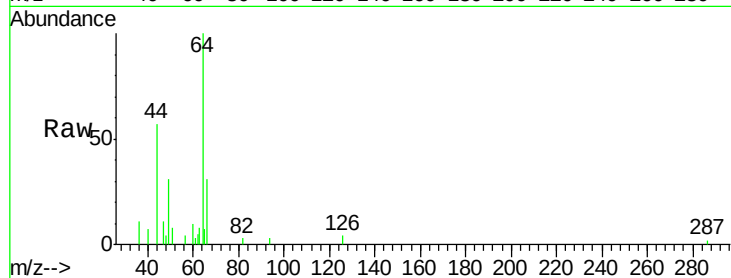
66 30.9 24.8 37.2

Manual Integrations

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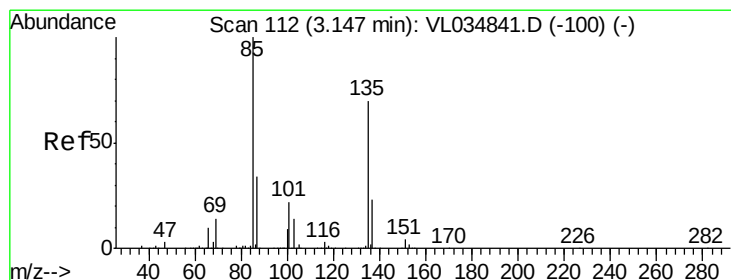
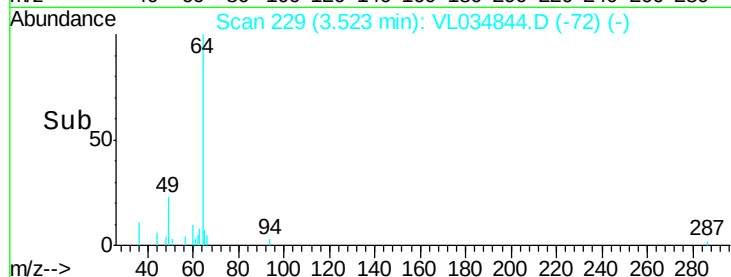
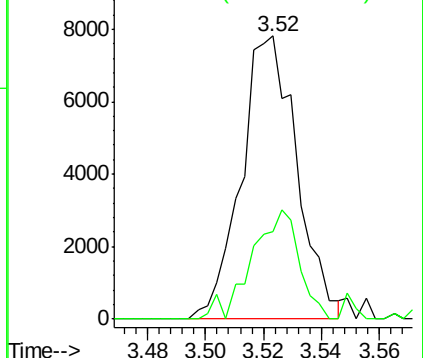
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.553 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL034844.D

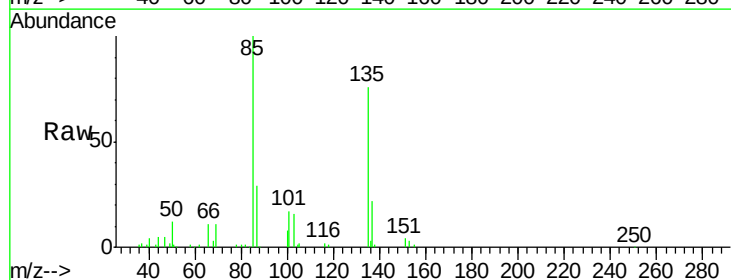
Acq: 9 Mar 2020 14:13

Tgt Ion: 85 Resp: 72609

Ion Ratio Lower Upper

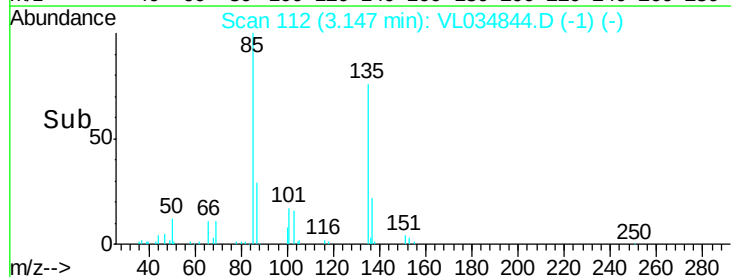
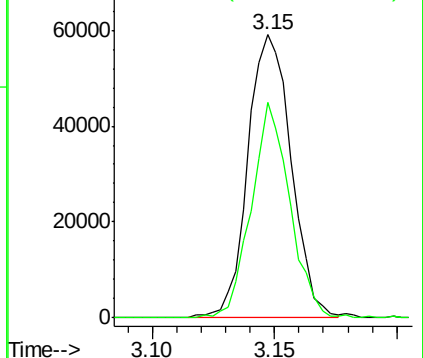
85 100

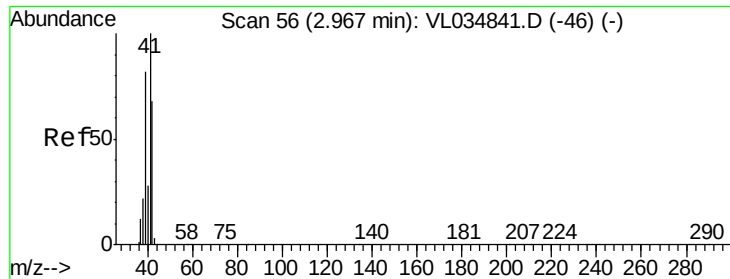
135 67.5 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





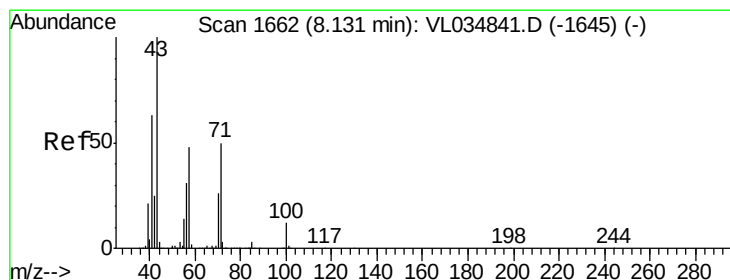
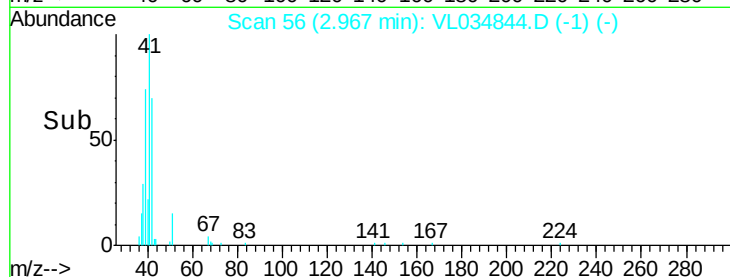
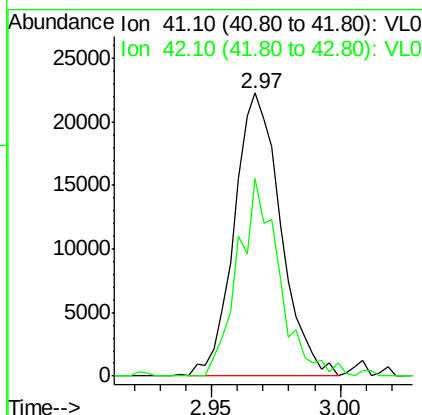
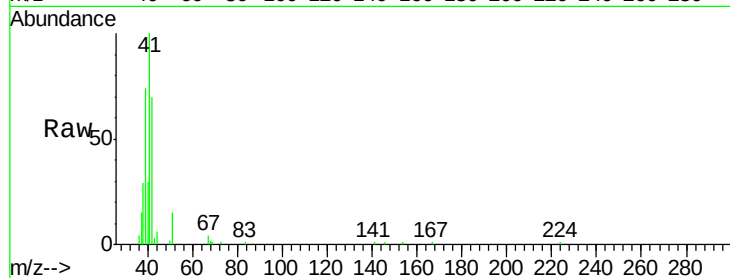
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 Propene
 Concen: 0.674 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 41 Resp: 27971
 Ion Ratio Lower Upper
 41 100
 42 62.7 55.2 82.8

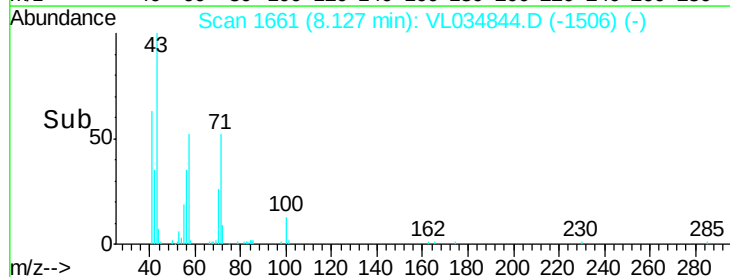
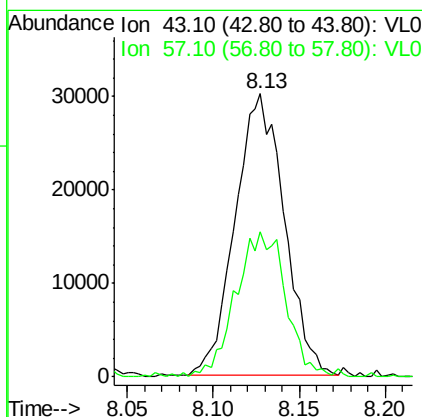
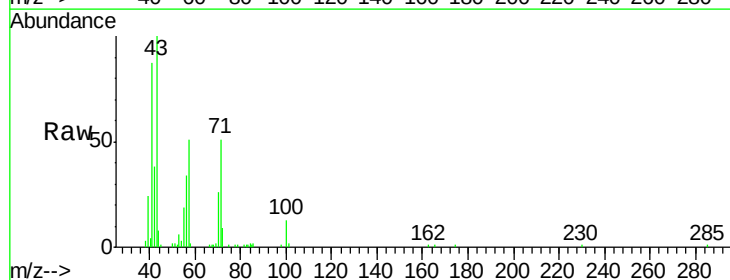
Manual Integrations
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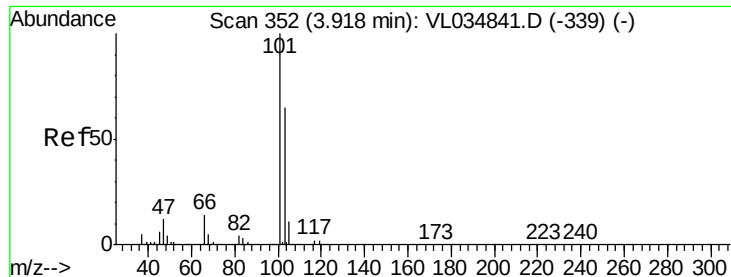
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 3/11/2020 3:26:02 PM



#10
 Heptane
 Concen: 0.566 ppbv
 RT: 8.13 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion: 43 Resp: 59687
 Ion Ratio Lower Upper
 43 100
 57 52.6 39.7 59.5





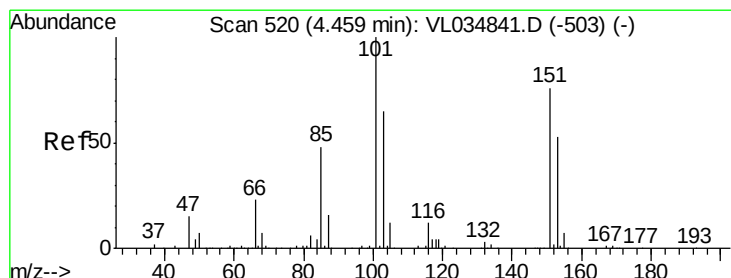
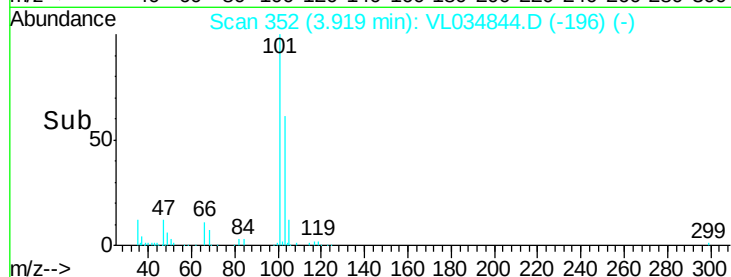
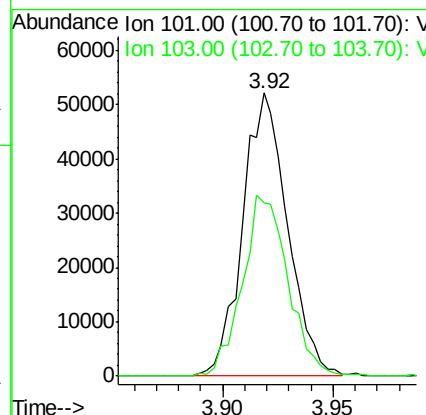
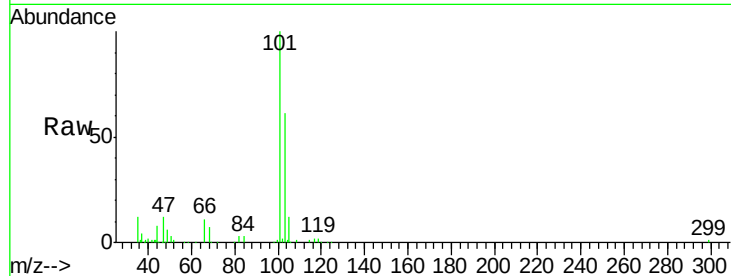
#11
 Trichlorofluoromethane
 Concen: 0.546 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.4	51.8	77.8

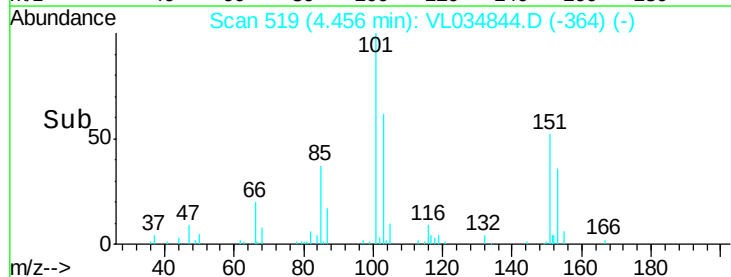
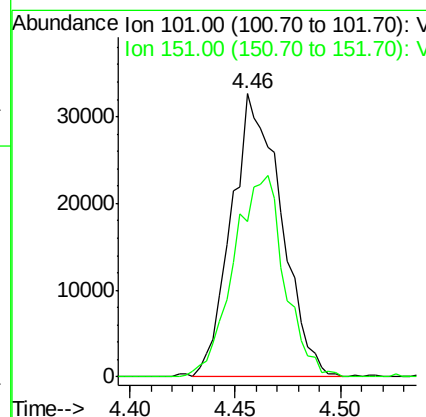
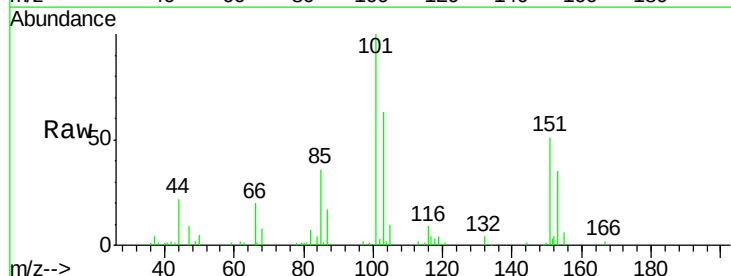
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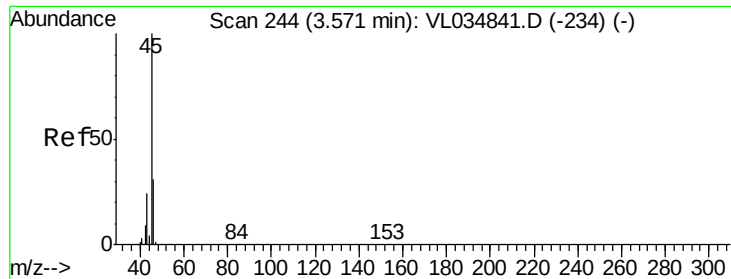
MMDadoda
 3/11/2020 3:26:02 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.574 ppbv
 RT: 4.46 min Scan# 519
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
101	100		
151	72.4	60.8	91.2





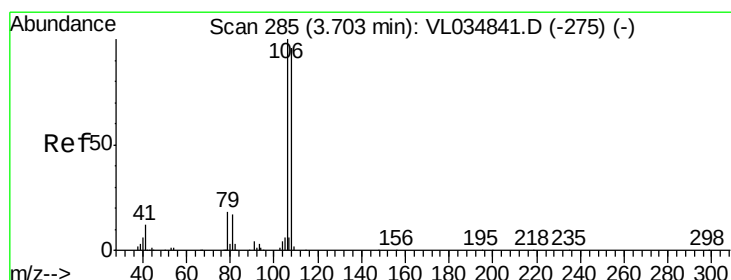
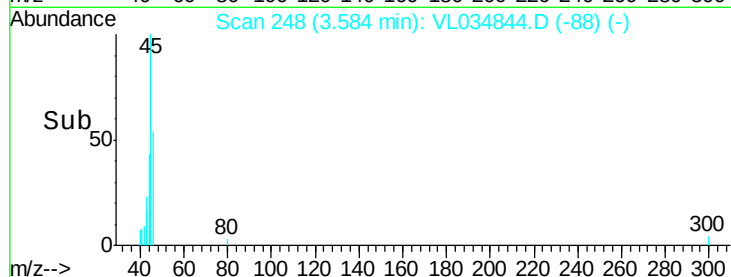
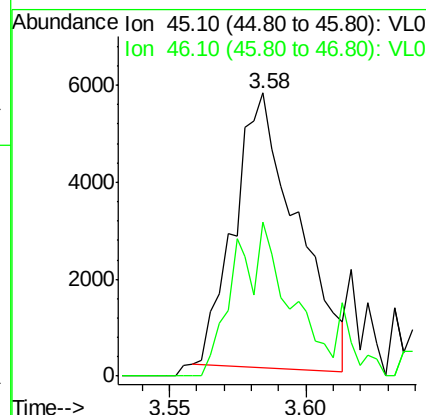
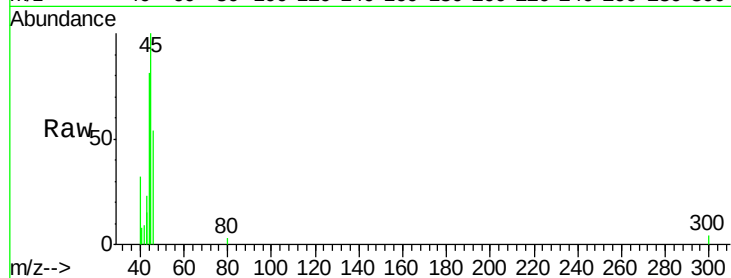
#13
Ethanol
Concen: 0.637 ppbv
RT: 3.58 min Scan# 248
Delta R.T. 0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 9050
Ion Ratio Lower Upper
45 100
46 56.3 16.0 64.0

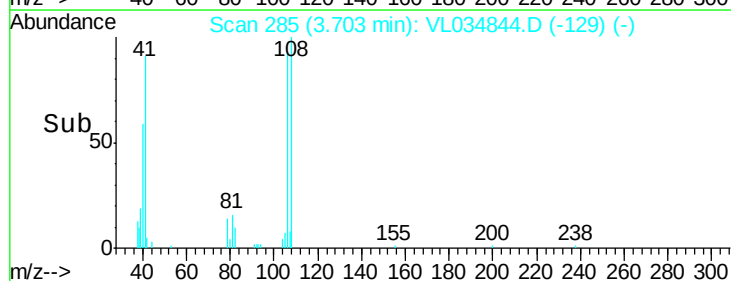
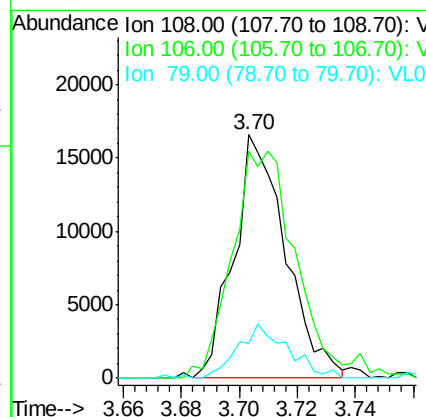
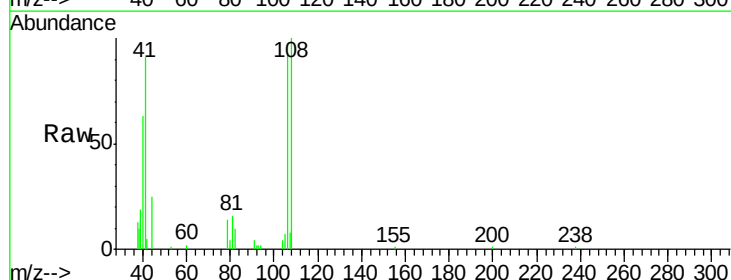
Manual Integrations
APPROVED

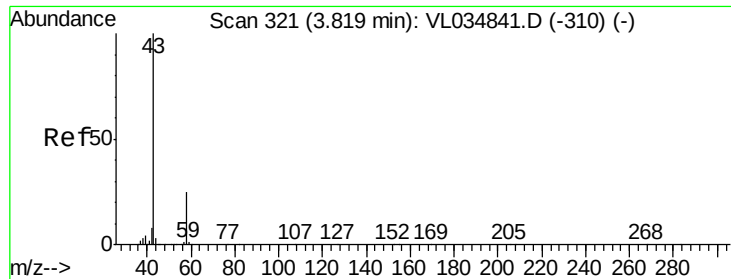
MMDadoda
3/11/2020 3:26:02 PM



#14
Bromoethene
Concen: 0.540 ppbv
RT: 3.70 min Scan# 285
Delta R.T. 0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion: 108 Resp: 20669
Ion Ratio Lower Upper
108 100
106 115.7 85.1 127.7
79 21.7 14.7 22.1





#15

Acetone

Concen: 0.587 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.02 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 65038

Ion Ratio Lower Upper

43 100

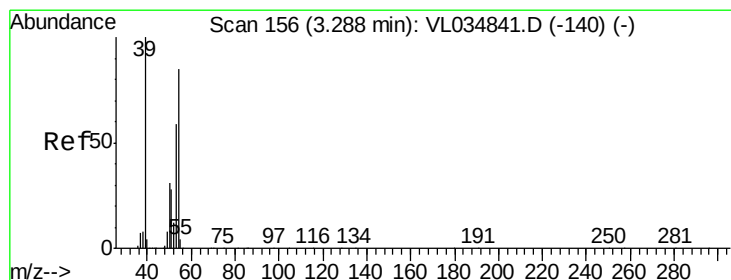
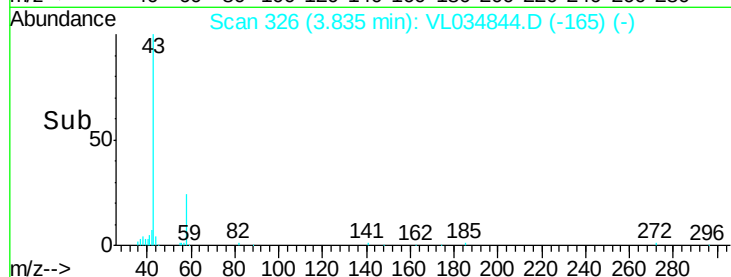
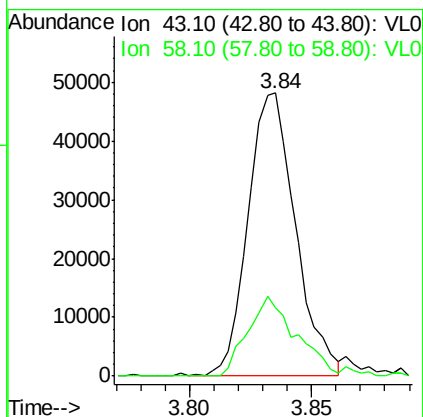
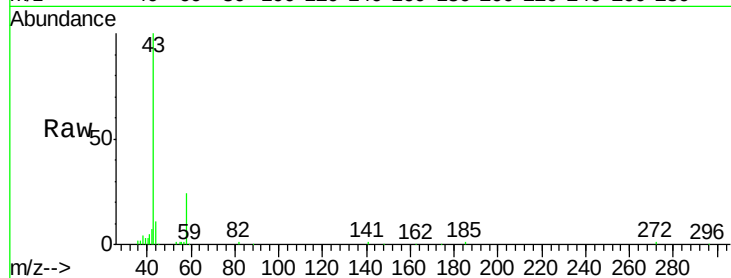
58 30.1 21.0 31.6

Manual Integrations

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MMDadoda

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#16

1,3-Butadiene

Concen: 0.592 ppbv m

RT: 3.29 min Scan# 158

Delta R.T. 0.01 min

Lab File: VL034844.D

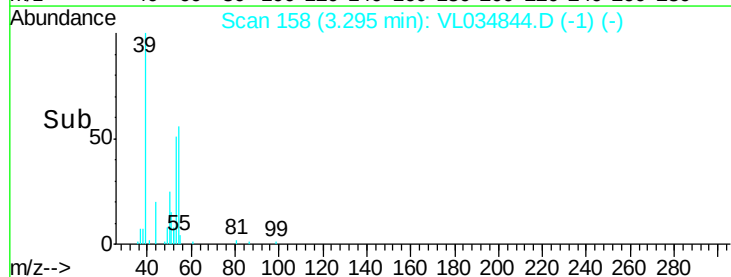
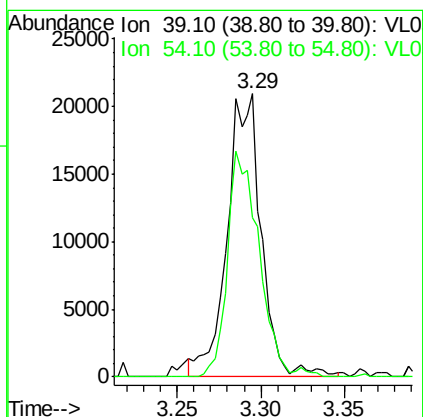
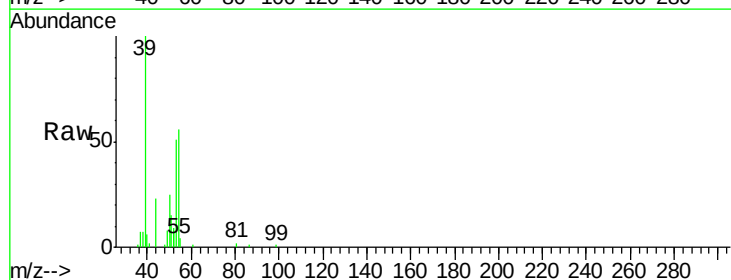
Acq: 9 Mar 2020 14:13

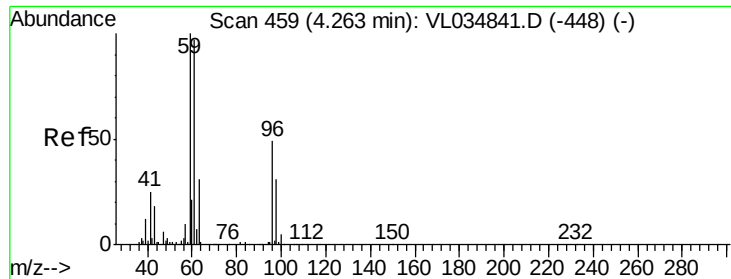
Tgt Ion: 39 Resp: 29673

Ion Ratio Lower Upper

39 100

54 74.1 65.0 97.6





#17

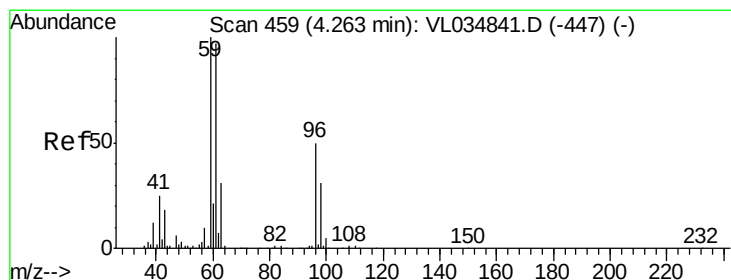
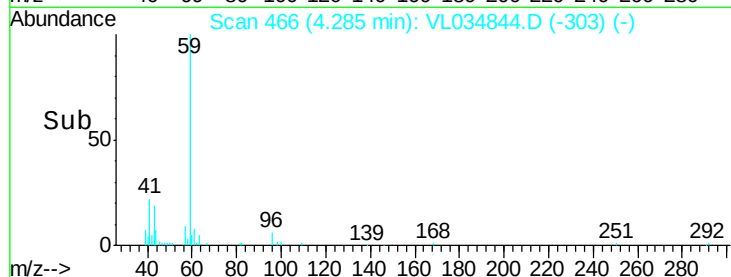
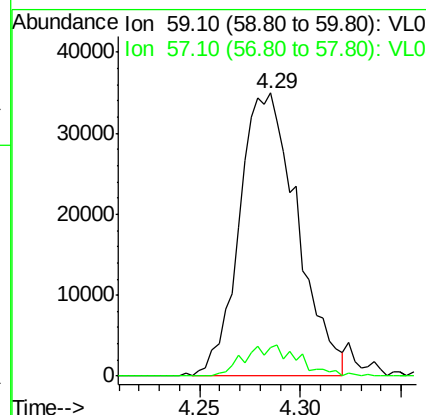
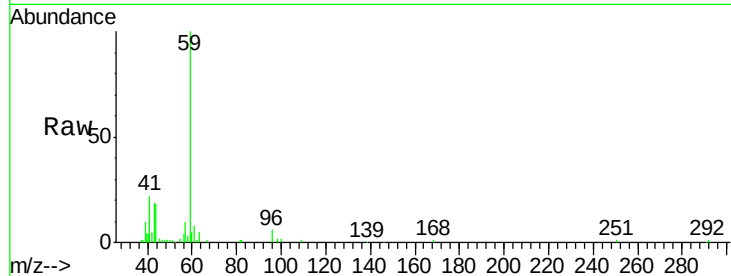
tert-Butyl alcohol
 Concen: 0.803 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.02 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

Manual Integrations
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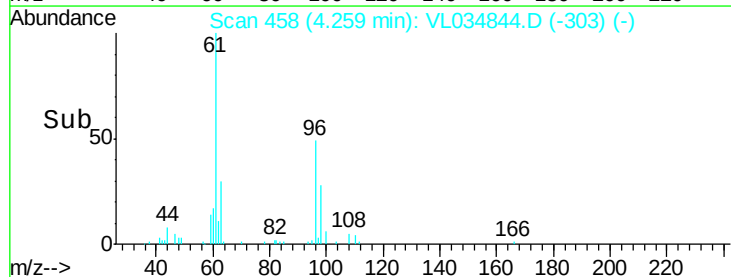
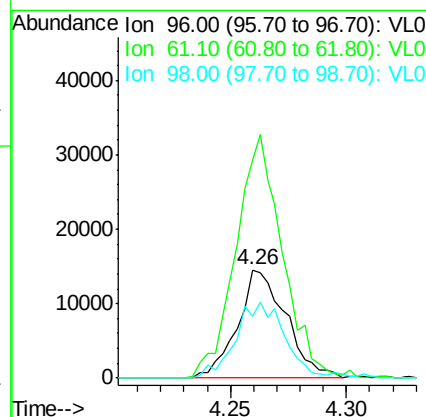
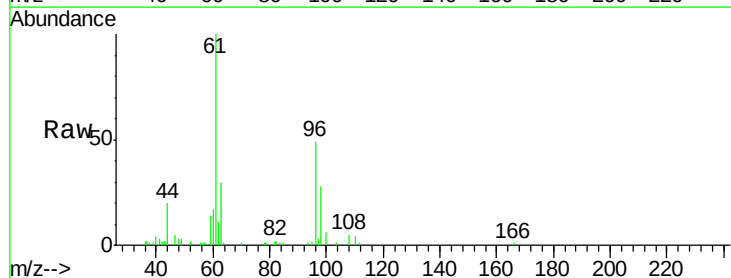
MMDadoda
 3/11/2020 3:26:02 PM

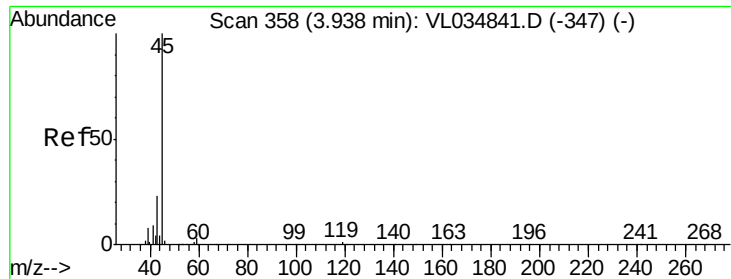


#18

1,1-Dichloroethene
 Concen: 0.511 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	200.3	157.3	235.9
98	57.2	50.2	75.4





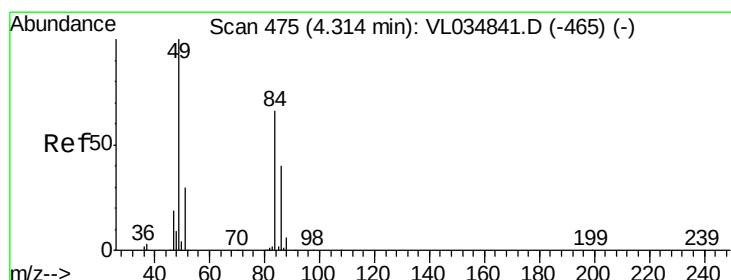
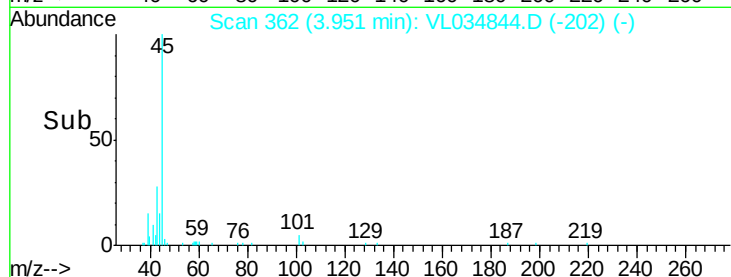
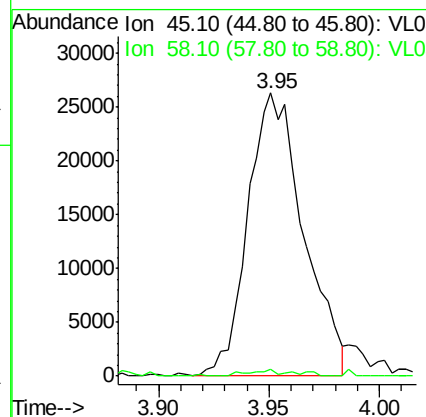
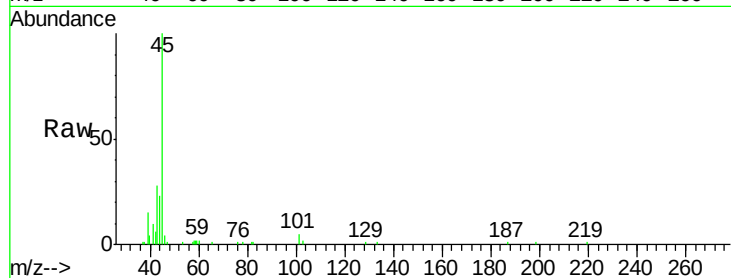
#19
Isopropyl Alcohol
Concen: 0.694 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.8	30.5	45.7#

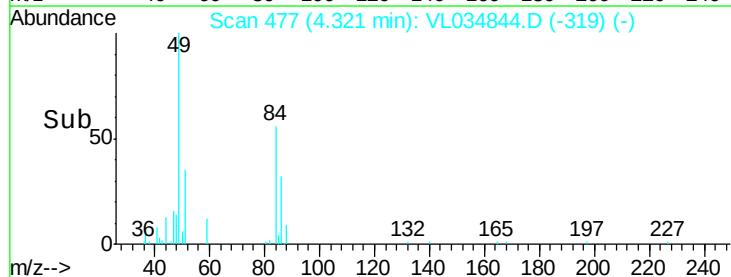
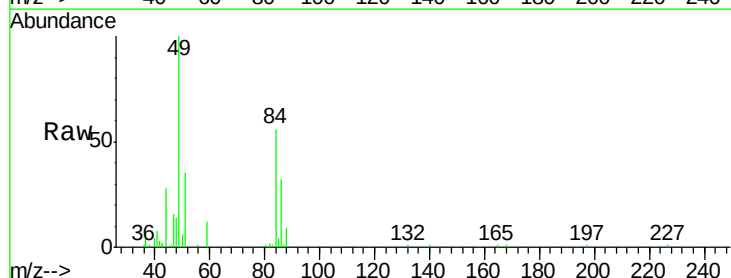
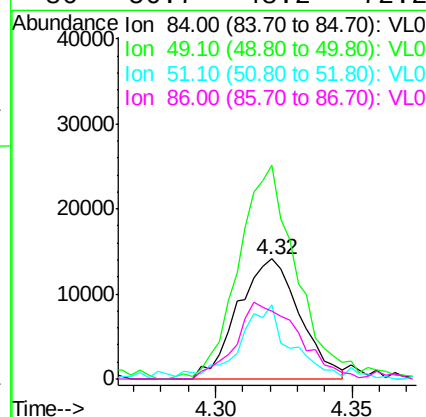
Manual Integrations
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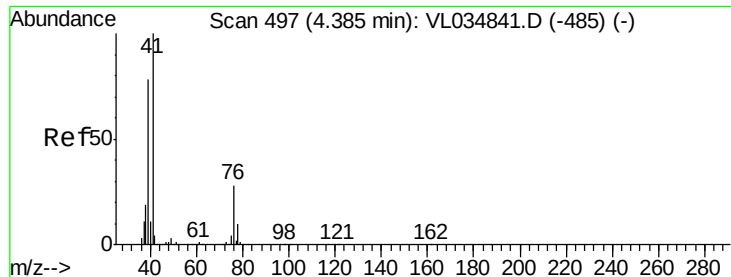
MMDadoda
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#20
Methylene Chloride
Concen: 0.562 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
84	100		
49	176.6	121.5	182.3
51	60.0	36.6	55.0#
86	56.7	48.2	72.2





#21

Allvl Chloride

Concen: 0.592 ppbv

RT: 4.38 min Scan# 497

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

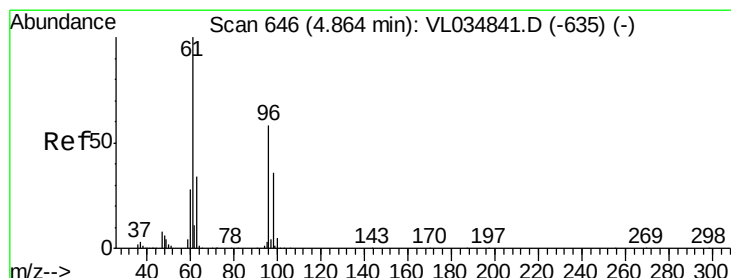
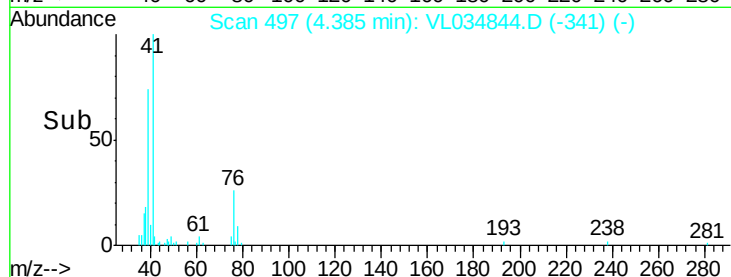
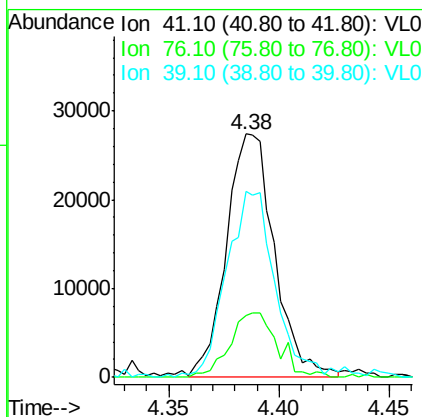
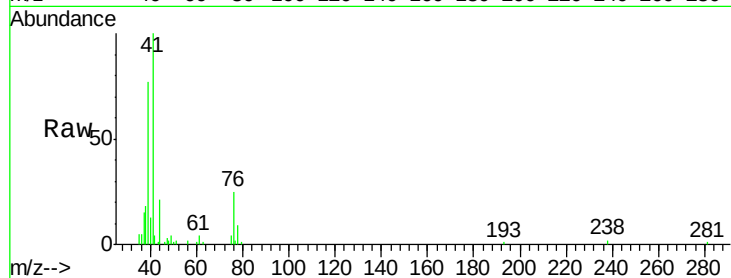
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	41532
Ion	Ratio	Lower	Upper
41	100		
76	26.4	22.2	33.2
39	79.6	62.6	93.8

Manual Integrations
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3/11/2020 3:26:02 PM



#22

trans-1,2-Dichloroethene

Concen: 0.565 ppbv

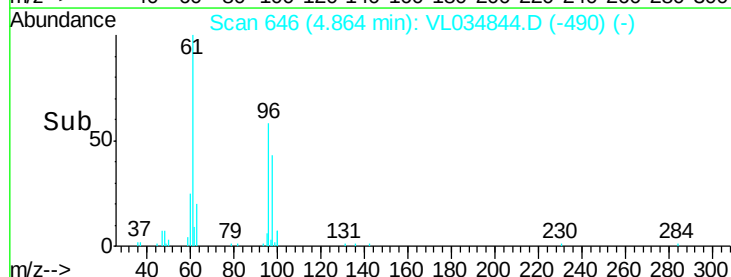
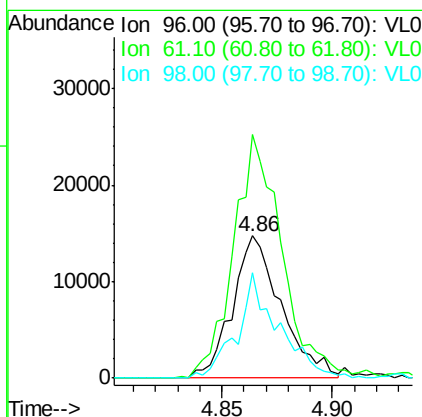
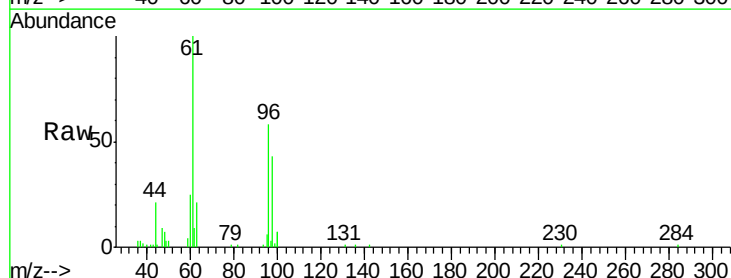
RT: 4.86 min Scan# 646

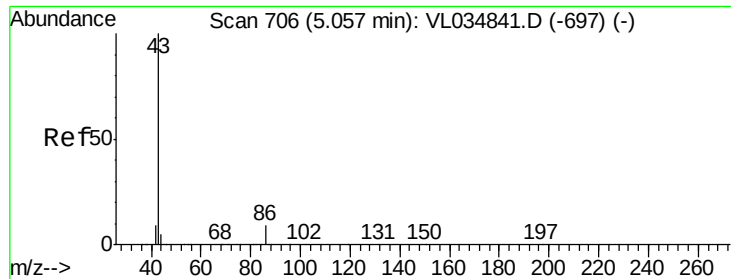
Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion:	96	Resp:	22670
Ion	Ratio	Lower	Upper
96	100		
61	187.2	139.0	208.6
98	74.5	50.3	75.5





#23

Vinyl Acetate

Concen: 0.607 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 90255

Ion Ratio Lower Upper

43 100

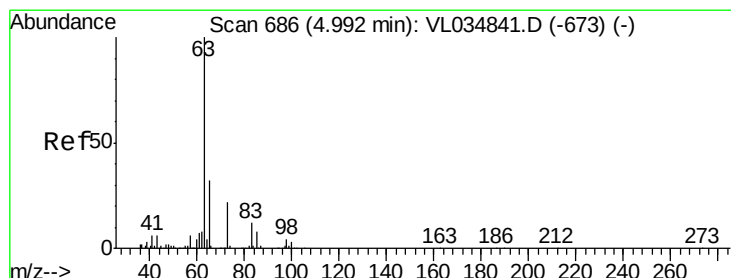
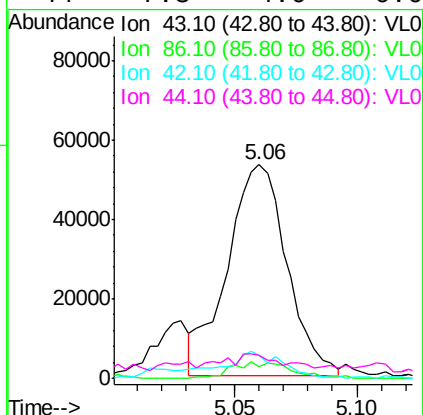
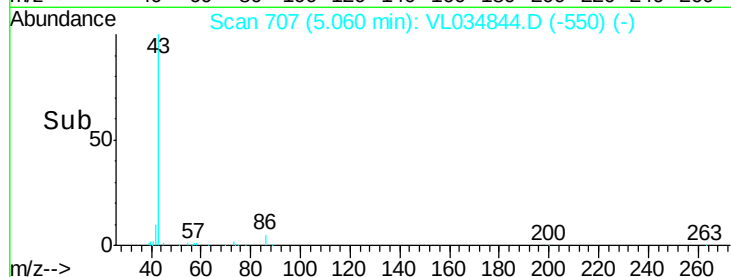
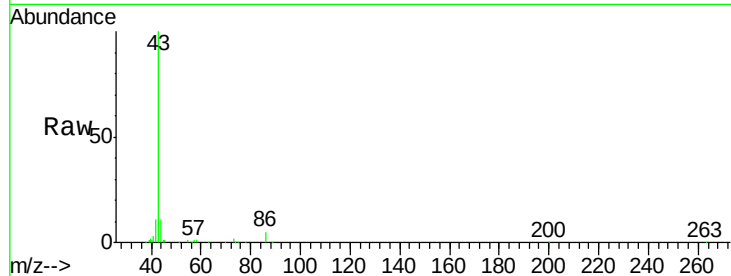
86 5.7 6.3 9.5#

42 10.0 7.8 11.8

44 7.3 4.0 6.0#

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.546 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

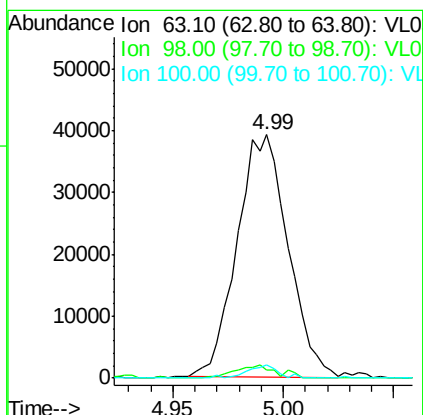
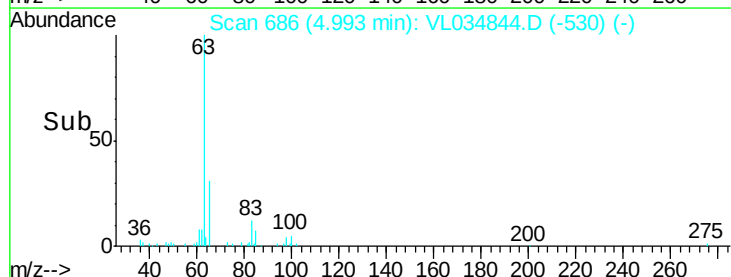
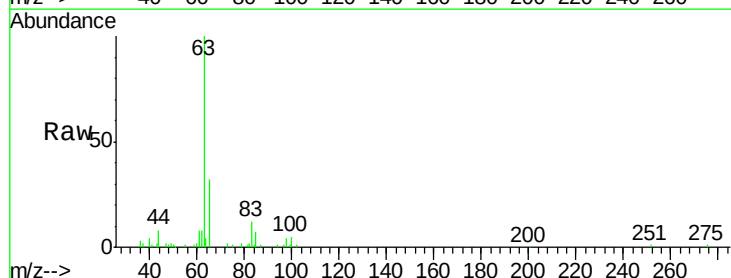
Tgt Ion: 63 Resp: 62986

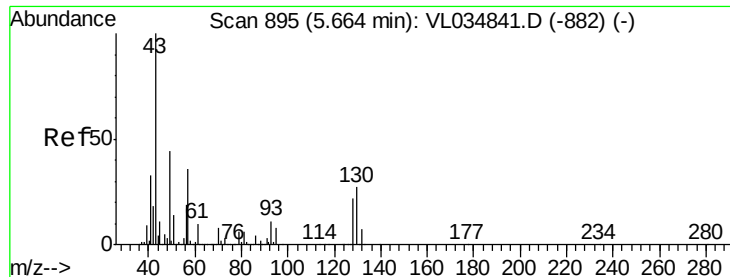
Ion Ratio Lower Upper

63 100

98 3.5 2.0 5.8

100 5.1 1.4 4.0#





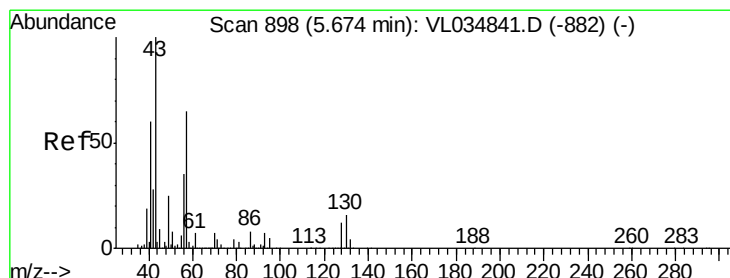
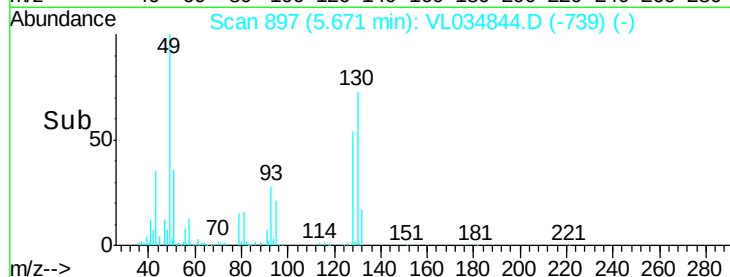
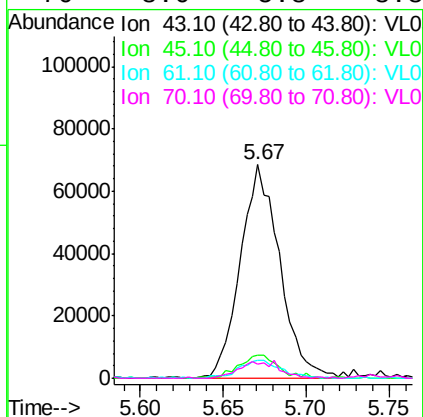
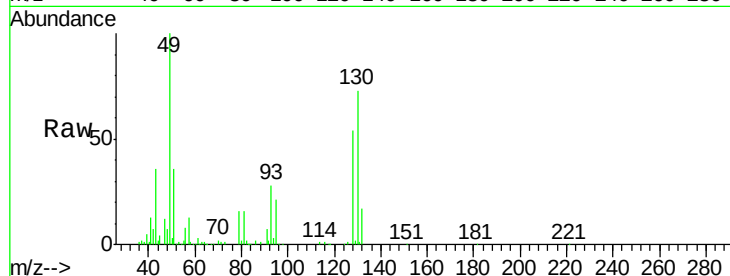
#25
Ethyl Acetate
Concen: 0.590 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	11.4	8.2	12.2		
61	9.2	7.8	11.6		
70	8.0	5.8	8.8		

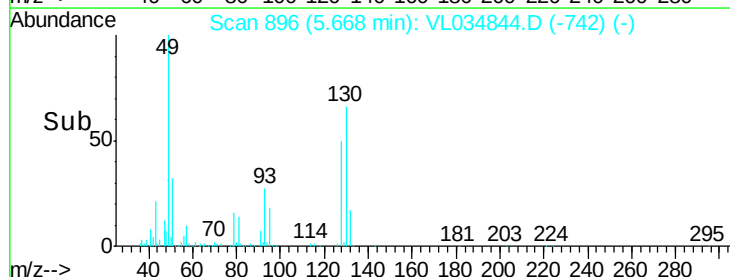
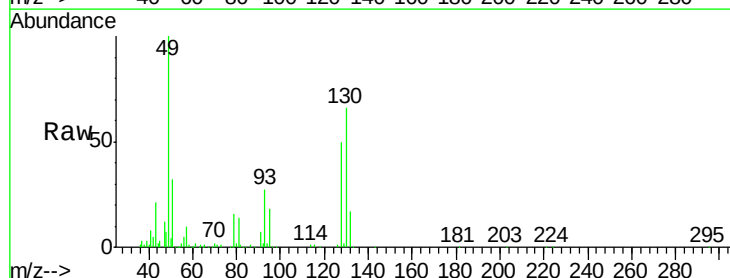
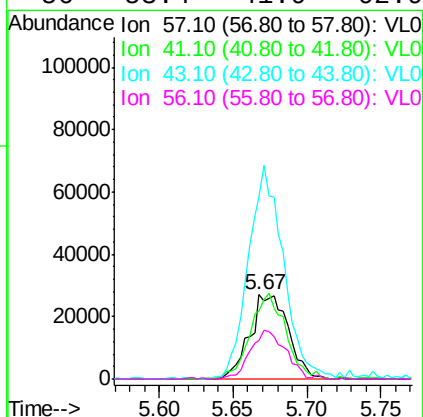
Manual Integrations
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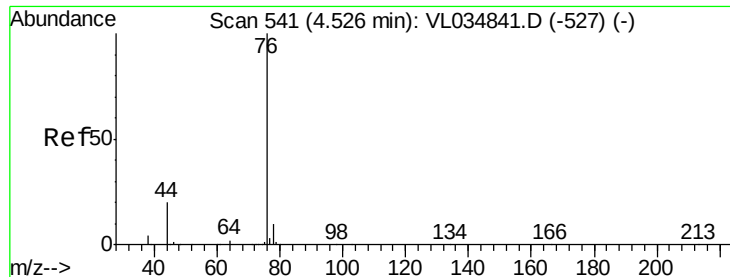
MMDadoda
3/11/2020 3:26:02 PM



#26
Hexane
Concen: 0.590 ppbv m
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	93.8	72.6	109.0		
43	237.3	183.8	275.6		
56	53.4	41.9	62.9		





#27

Carbon Disulfide

Concen: 0.510 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

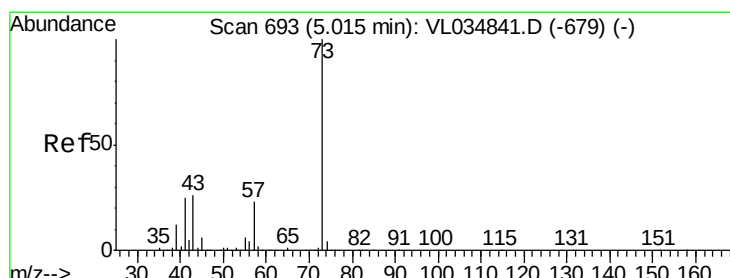
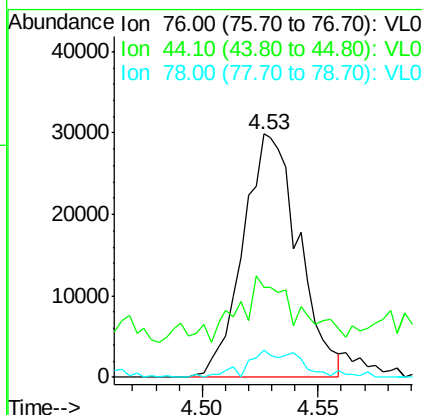
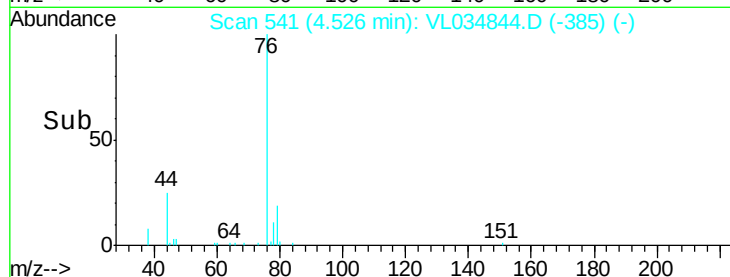
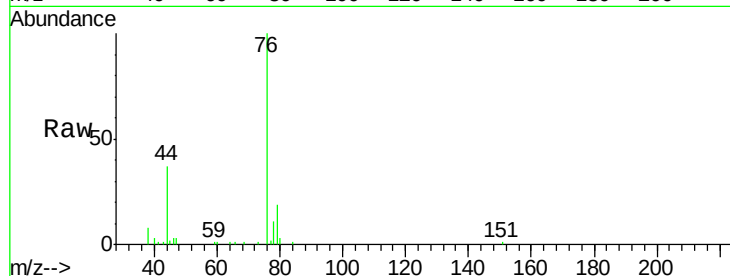
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	49878
Ion	Ratio	Lower	Upper
76	100		
44	32.4	16.2	24.2#
78	11.4	7.8	11.6

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.613 ppbv

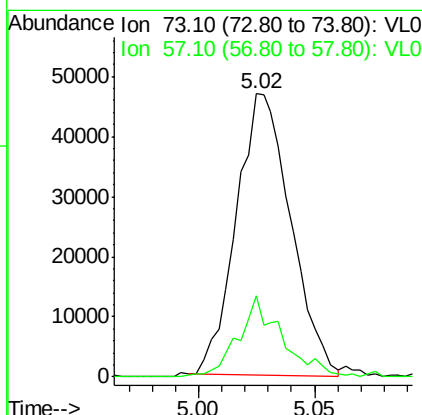
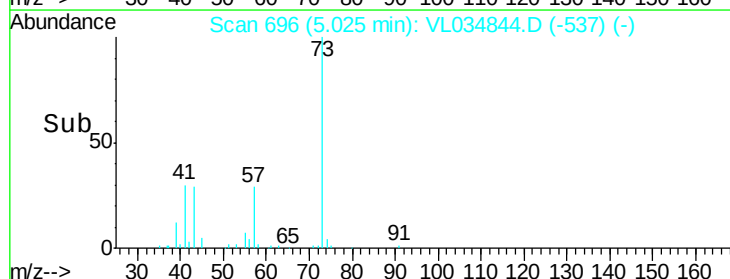
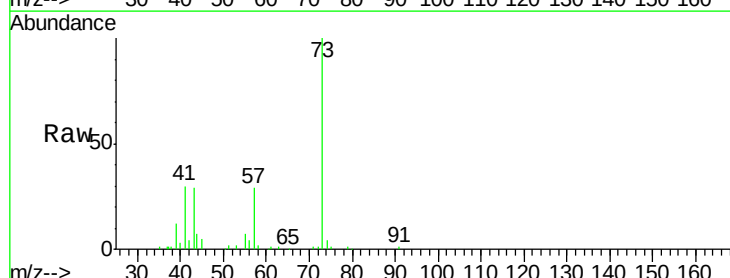
RT: 5.02 min Scan# 696

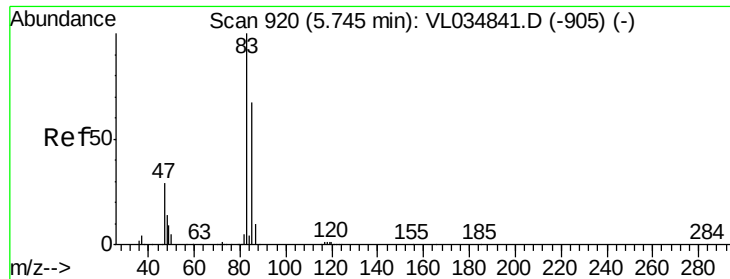
Delta R.T. 0.01 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion:	73	Resp:	76366
Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.3	27.5





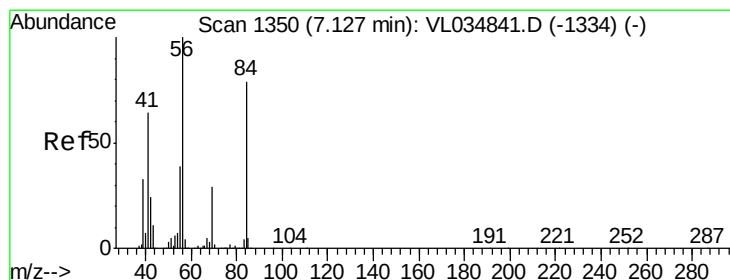
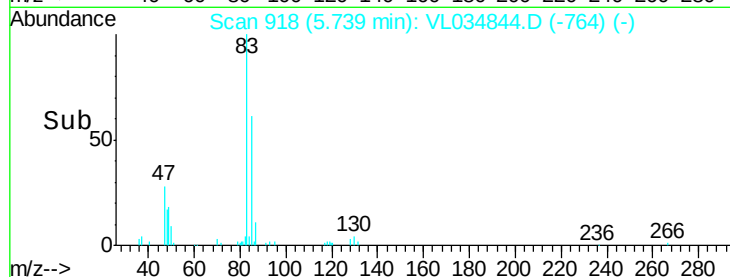
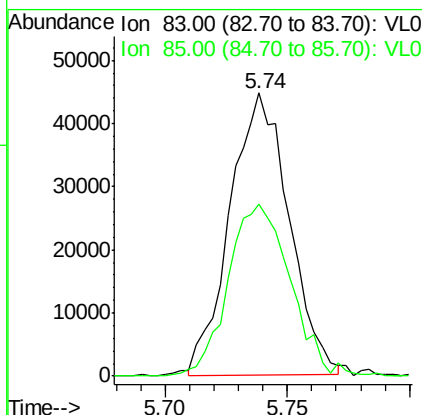
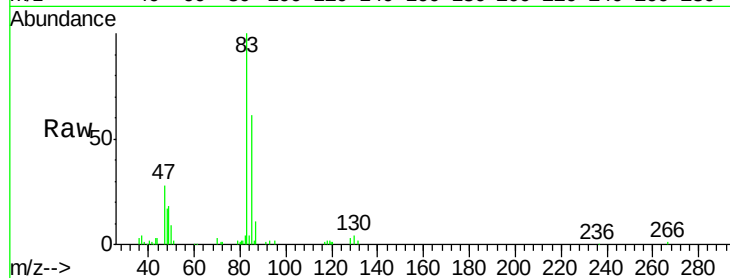
#29
Chloroform
Concen: 0.534 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	75197
Ion Ratio	100	Lower	Upper
83	100		
85	59.4	53.8	80.6

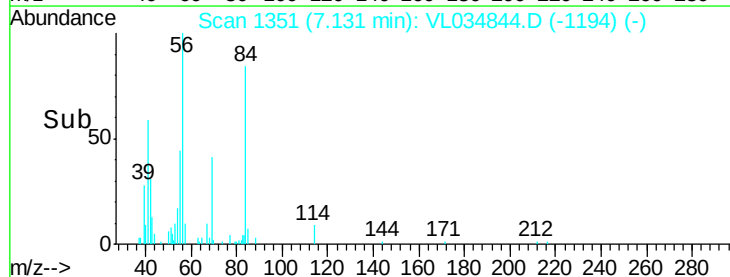
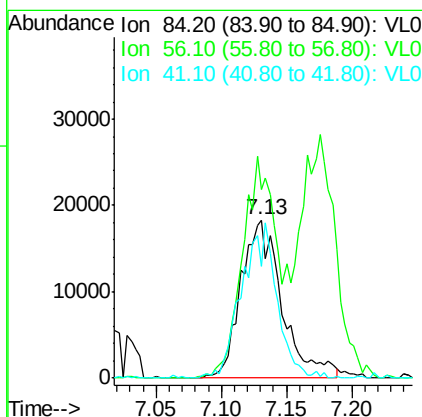
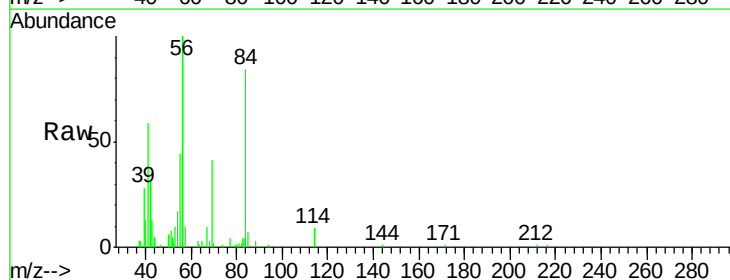
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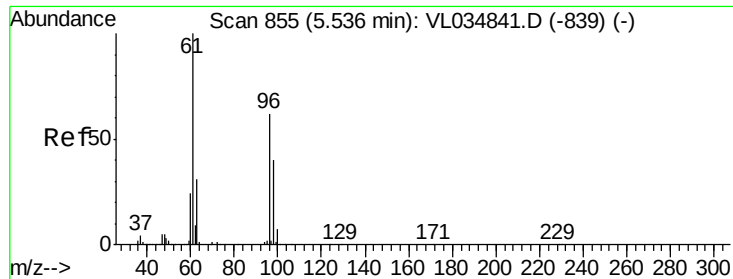
MMDadoda
3/11/2020 3:26:02 PM



#30
Cyclohexane
Concen: 0.625 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	84	Resp	40005
Ion Ratio	100	Lower	Upper
84	100		
56	122.6	110.5	165.7
41	0.0	68.2	102.4#





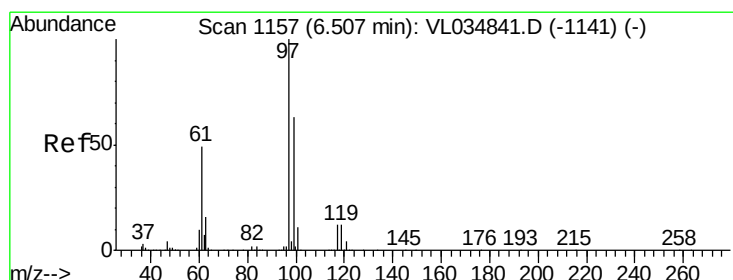
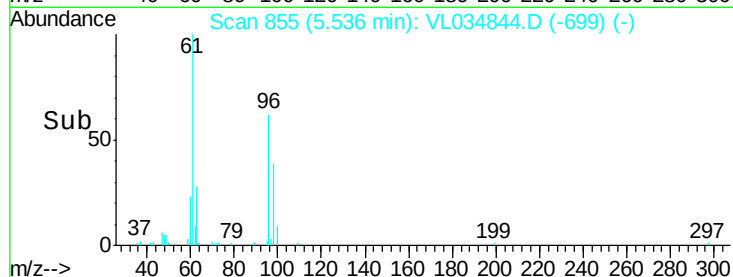
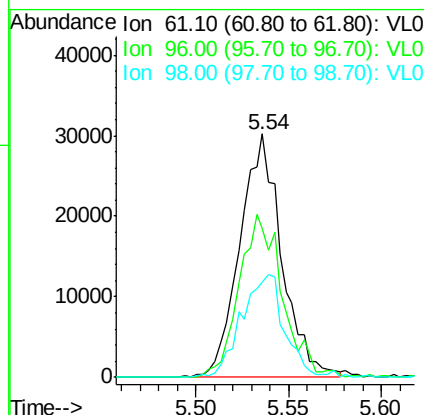
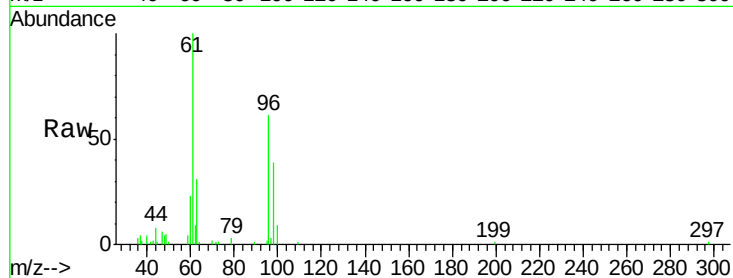
#31
 cis-1,2-Dichloroethene
 Concen: 0.554 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.6	49.8	74.8
98	39.1	32.2	48.4

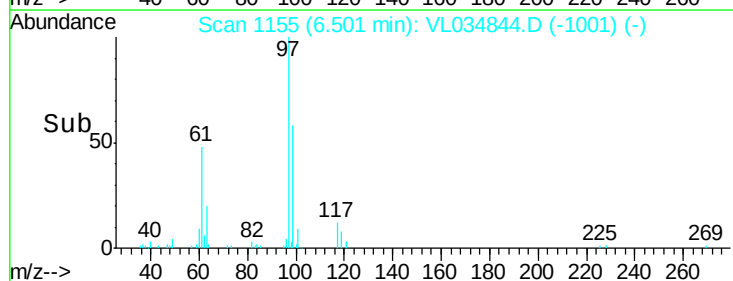
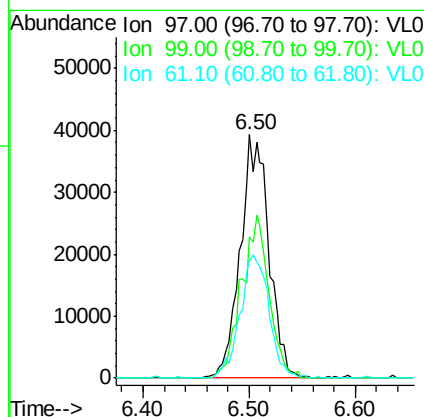
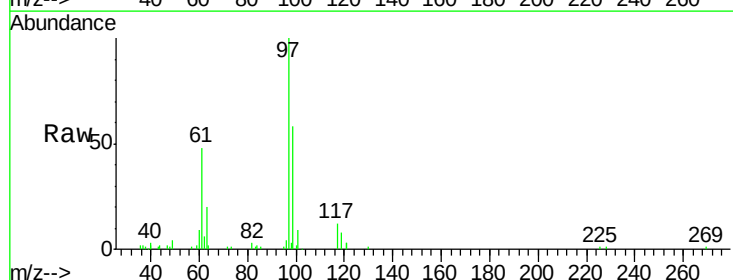
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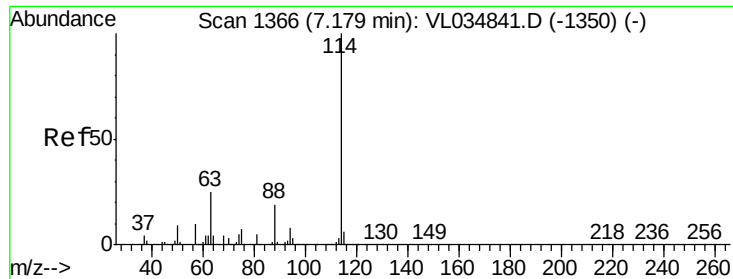
MMDadoda
 3/11/2020 3:26:02 PM



#32
 1,1,1-Trichloroethane
 Concen: 0.526 ppbv m
 RT: 6.50 min Scan# 1155
 Delta R.T. -0.01 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	51.7	39.7	59.5





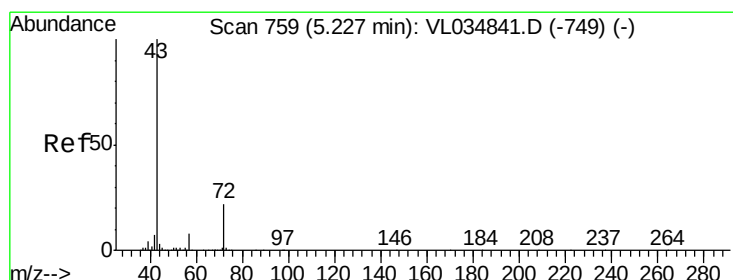
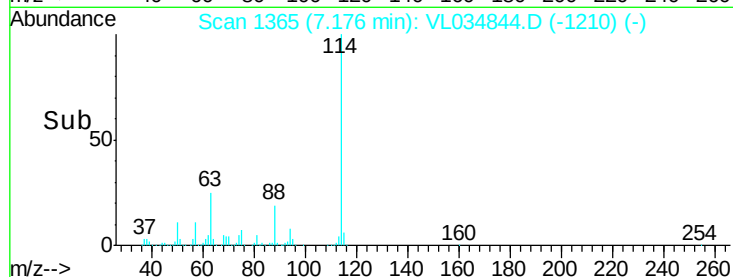
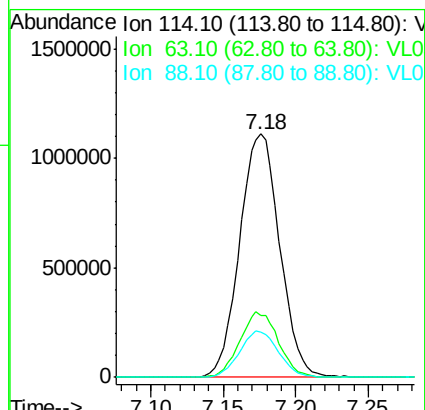
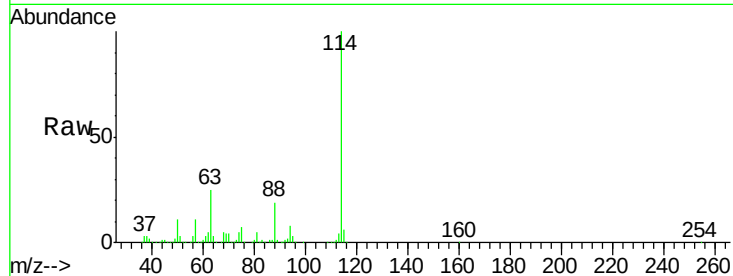
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.6	31.0
88	18.7	15.0	22.6

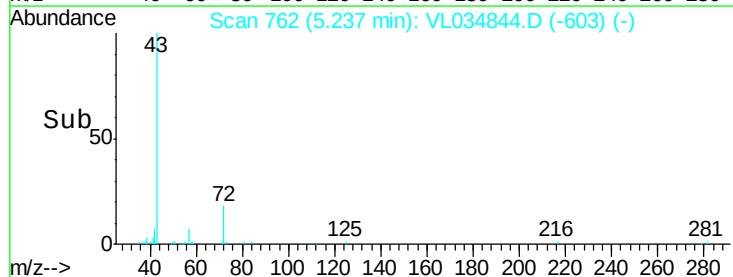
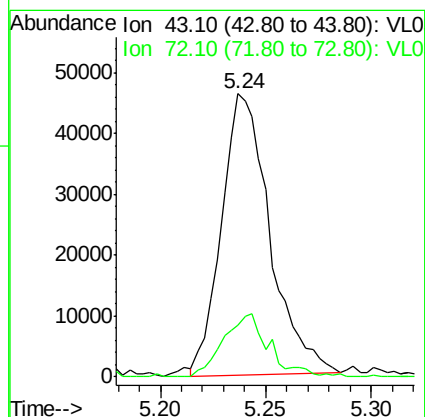
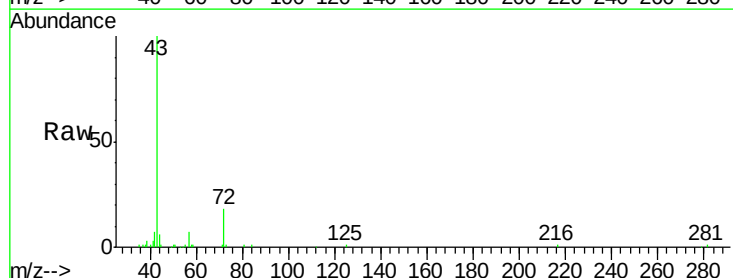
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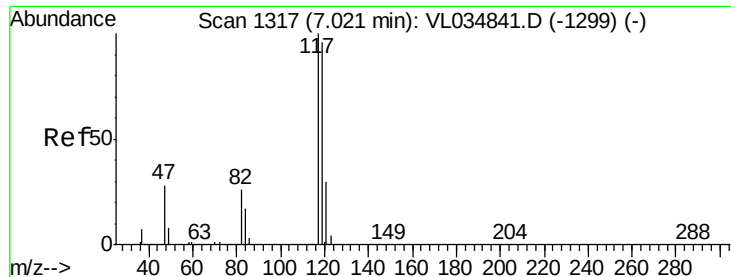
MMDadoda
 3/11/2020 3:26:02 PM



#34
 2-Butanone
 Concen: 0.531 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.6	26.4





#35

Carbon Tetrachloride

Concen: 0.441 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

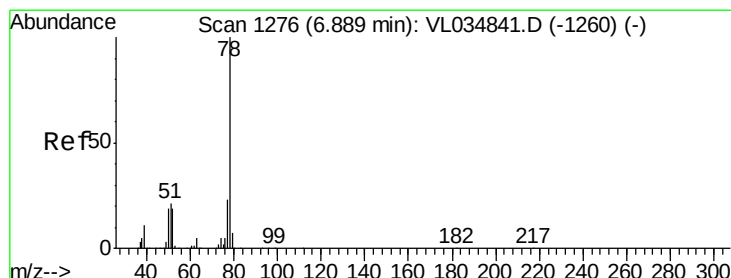
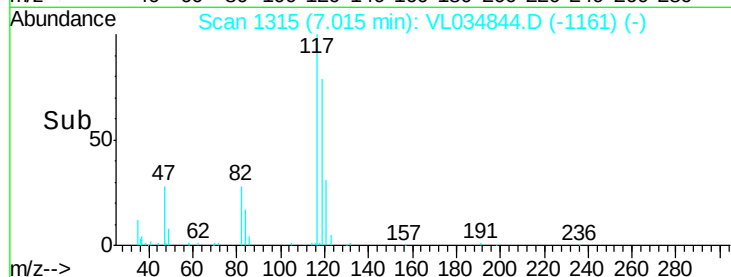
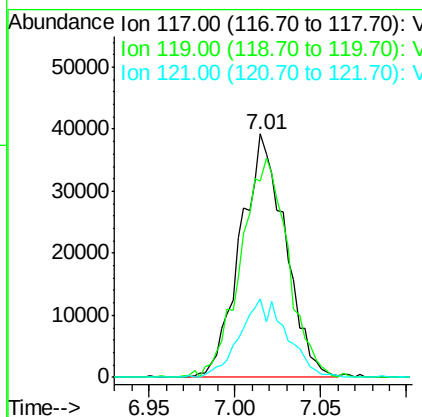
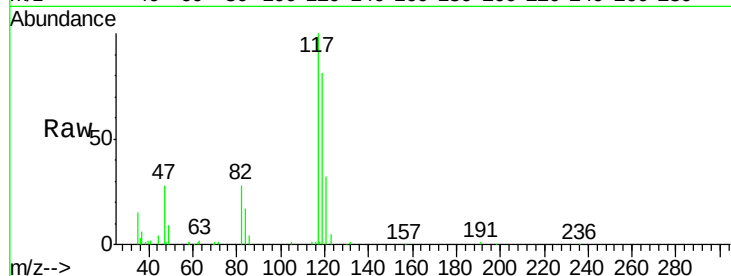
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	70977
Ion	Ratio	Lower	Upper
117	100		
119	79.9	77.0	115.4
121	31.2	24.0	36.0

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#36

Benzene

Concen: 0.547 ppbv

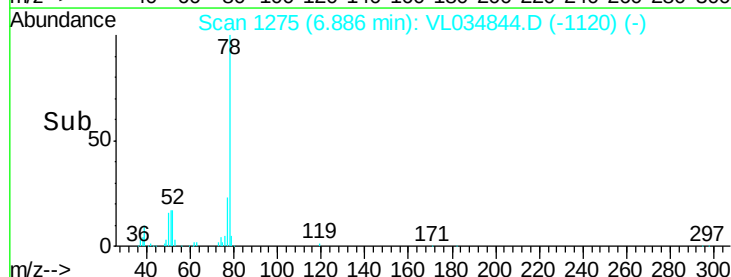
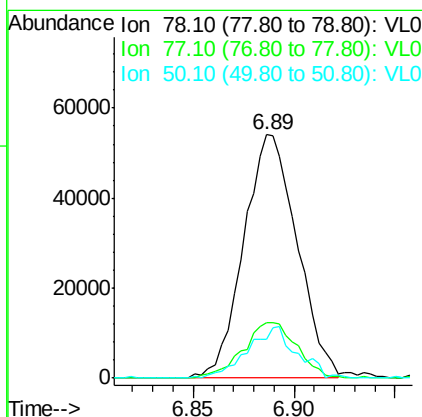
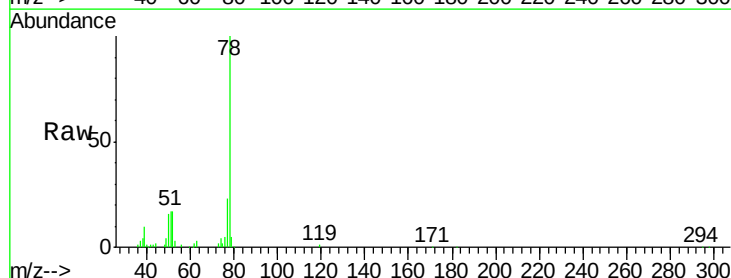
RT: 6.89 min Scan# 1275

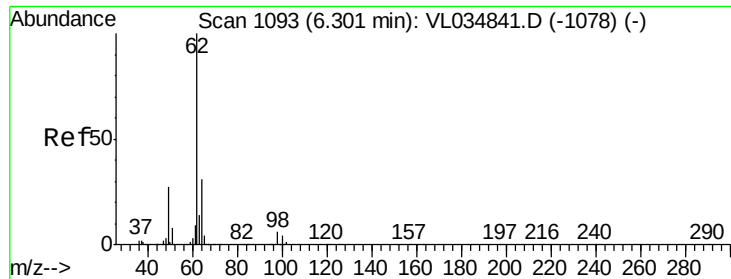
Delta R.T. -0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion:	78	Resp:	99728
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.2	27.2
50	16.0	15.2	22.8





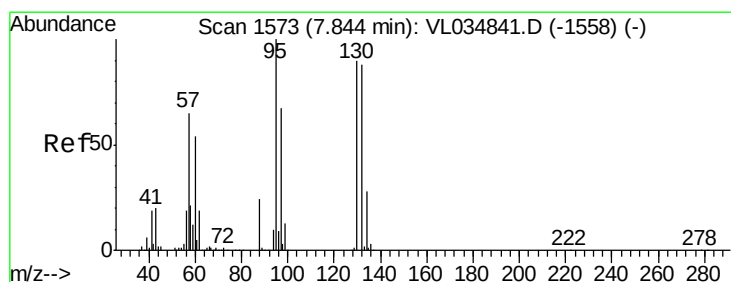
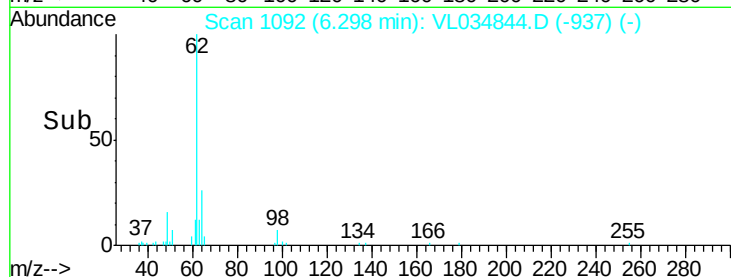
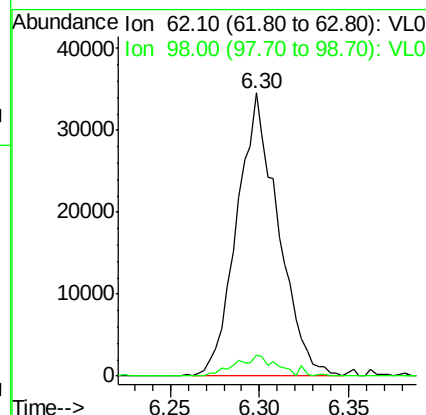
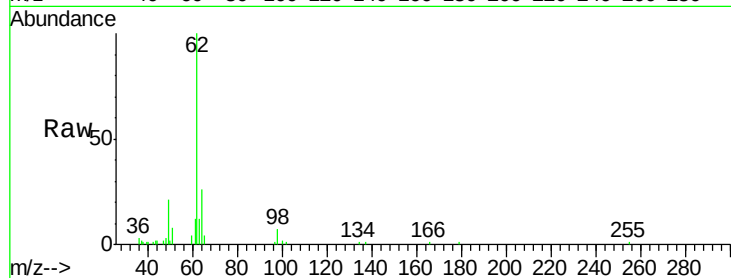
#37
 1,2-Dichloroethane
 Concen: 0.448 ppbv
 RT: 6.30 min Scan# 1092
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	55706		
98	7.4		5.2	7.8

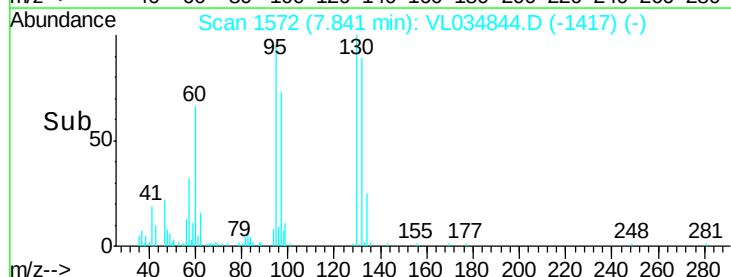
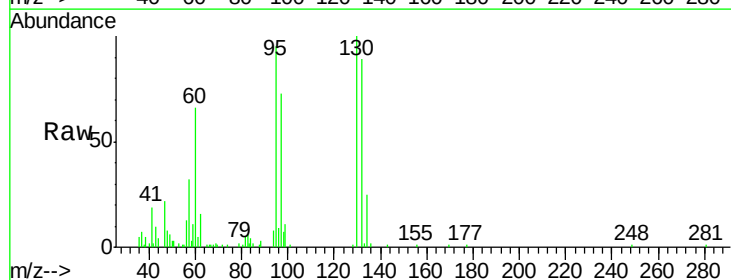
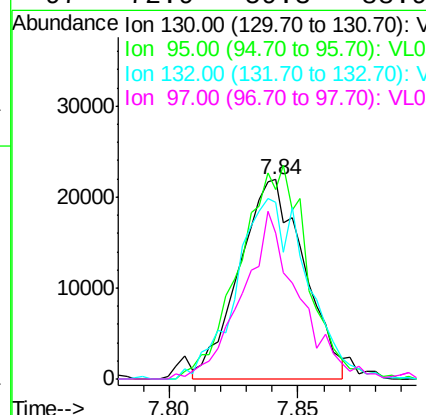
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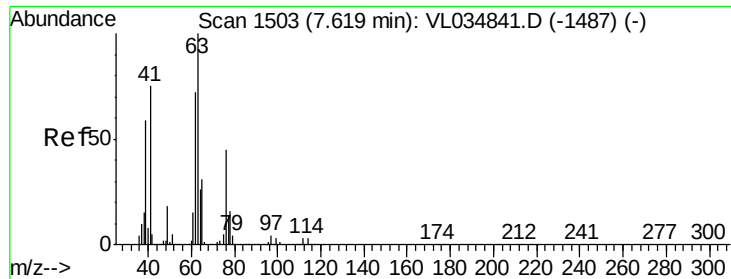
MMDadoda
 3/11/2020 3:26:02 PM



#38
 Trichloroethene
 Concen: 0.542 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	38488		
95	93.2		88.5	132.7
132	88.7		78.0	117.0
97	72.9		59.3	88.9





#39

1,2-Dichloropropane

Concen: 0.549 ppbv m

RT: 7.62 min Scan# 1502

Delta R.T. -0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

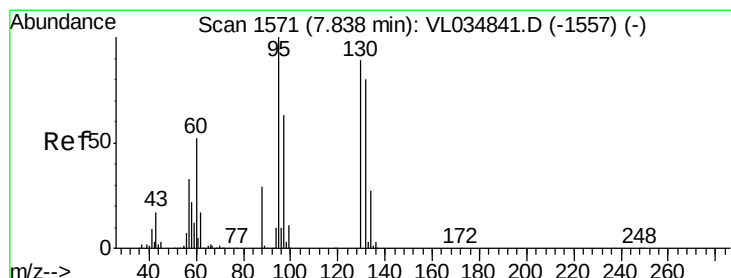
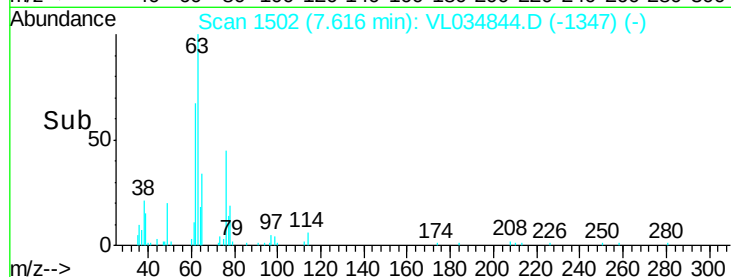
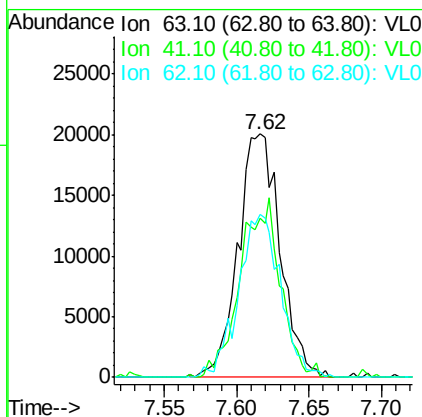
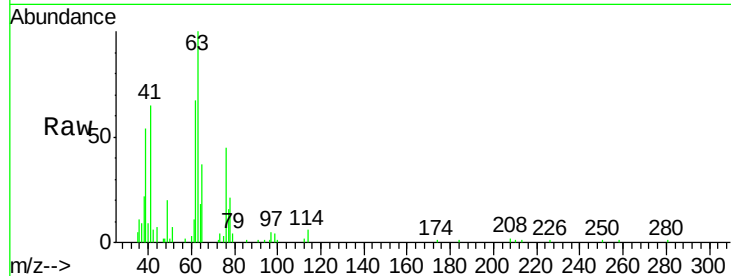
ClientSampleId :

VSTDIC0.5

Tot Ion:	63	Resp:	40391
Ion	Ratio	Lower	Upper
63	100		
41	65.5	59.8	89.8
62	66.8	57.6	86.4

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#40

1,4-Dioxane

Concen: 0.698 ppbv m

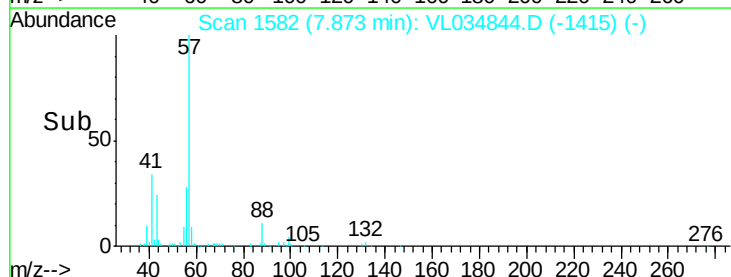
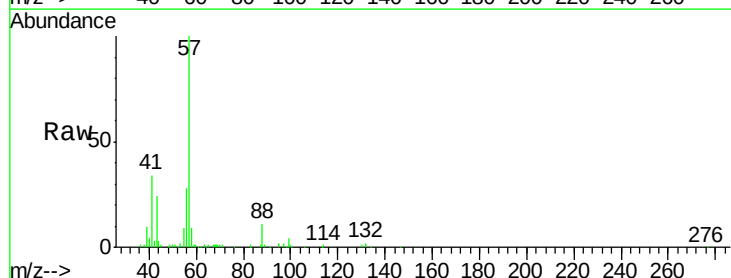
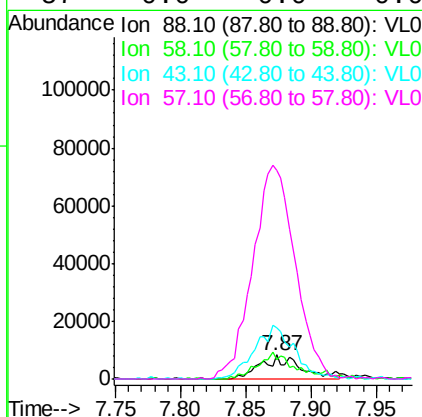
RT: 7.87 min Scan# 1582

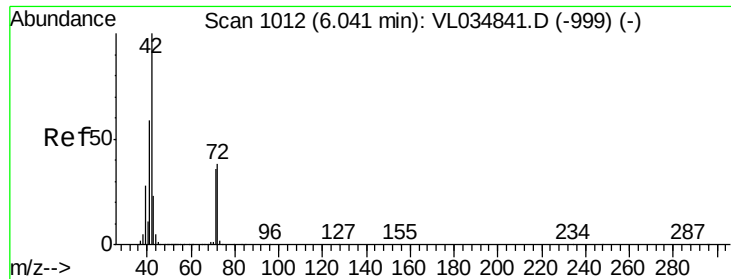
Delta R.T. 0.04 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion:	88	Resp:	17755
Ion	Ratio	Lower	Upper
88	100		
58	0.0	103.9	155.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





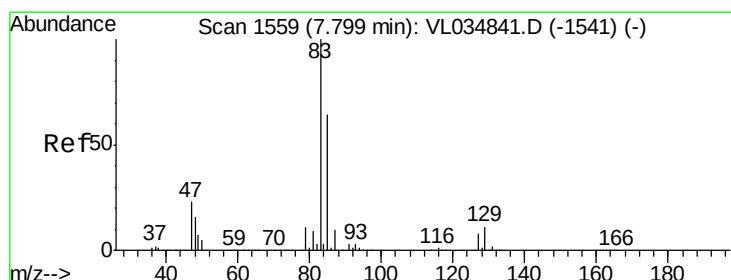
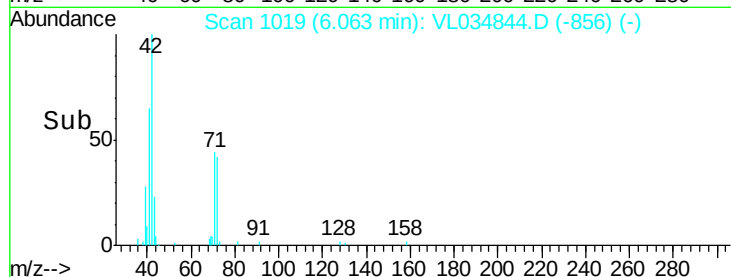
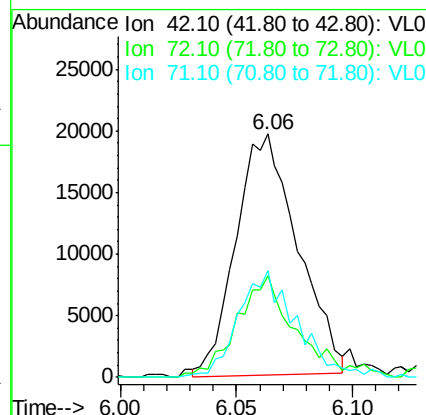
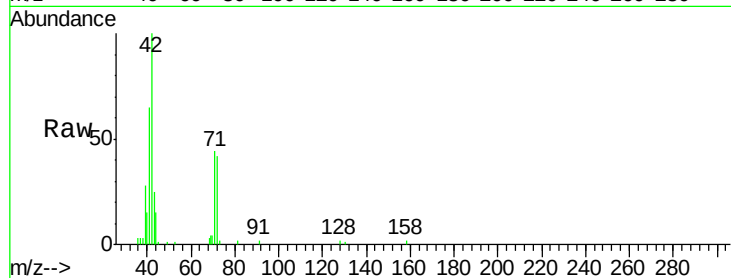
#41
Tetrahydrofuran
Concen: 0.513 ppbv
RT: 6.06 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.9	30.8	46.2
71	41.7	30.1	45.1

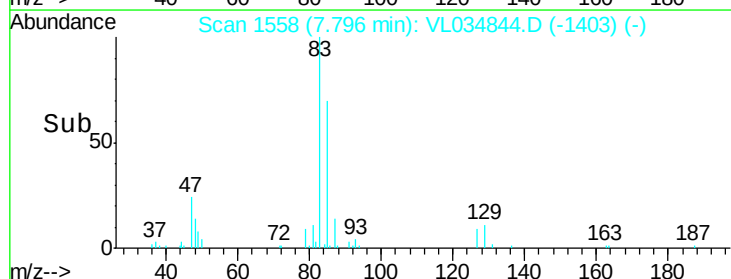
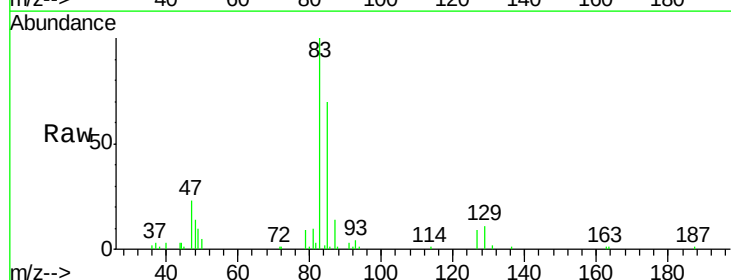
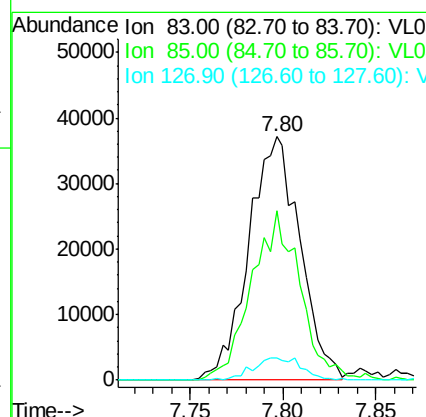
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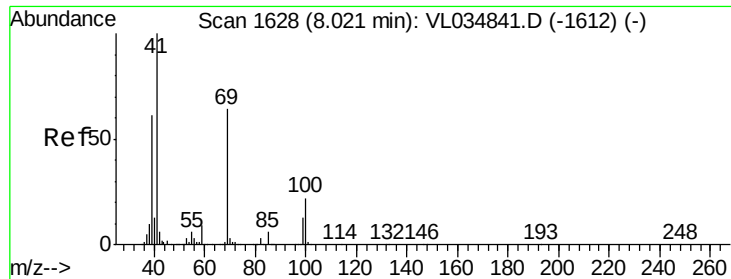
MMDadoda
3/11/2020 3:26:02 PM



#42
Bromodichloromethane
Concen: 0.451 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.8	51.4	77.2
127	9.0	6.2	9.4





#43

Methyl Methacrylate

Concen: 0.522 ppbv

RT: 8.02 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

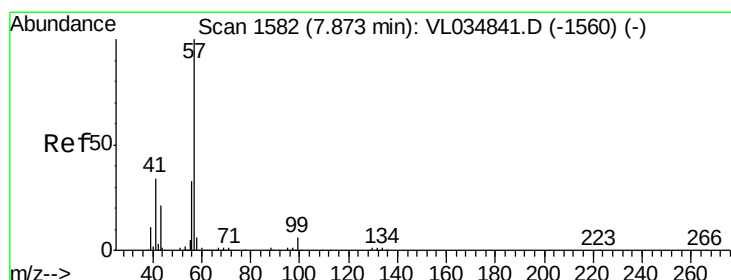
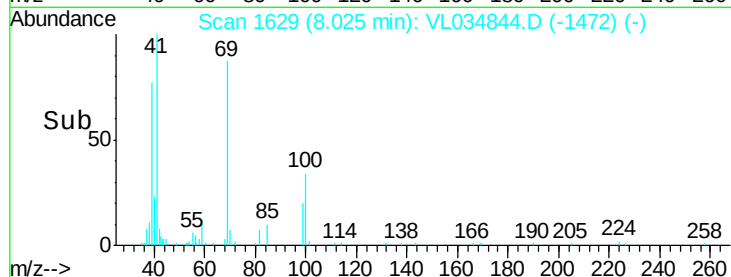
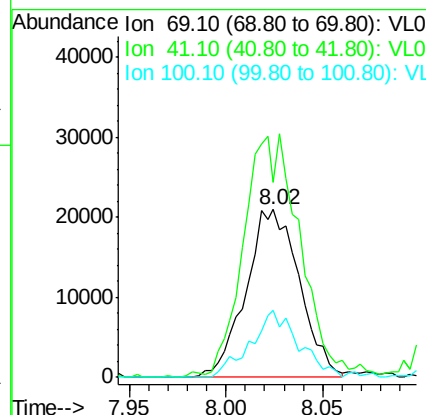
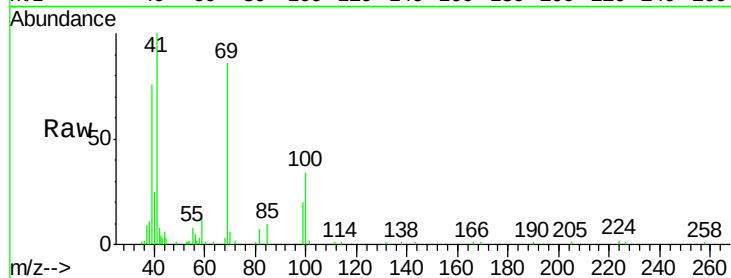
Instrument :
MSVOA_L

ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	154.0	123.2	184.8	
100	37.6	26.9	40.3	

Manual Integrations
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3/11/2020 3:26:02 PM



#44

2,2,4-Trimethylpentane

Concen: 0.523 ppbv

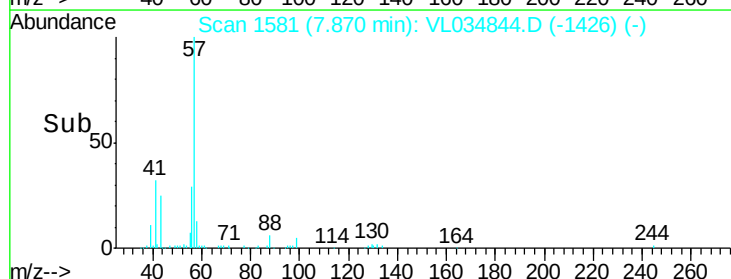
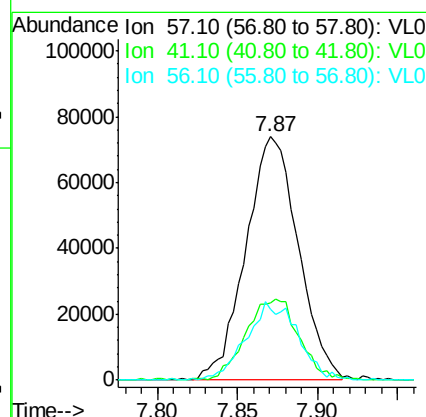
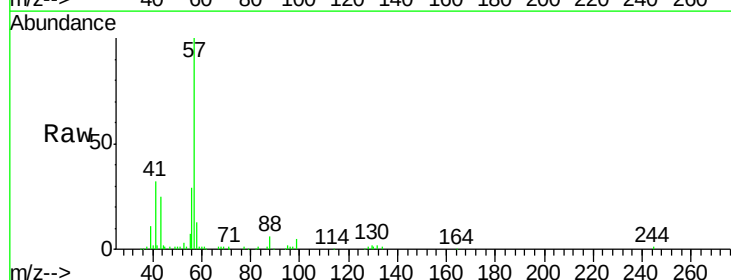
RT: 7.87 min Scan# 1581

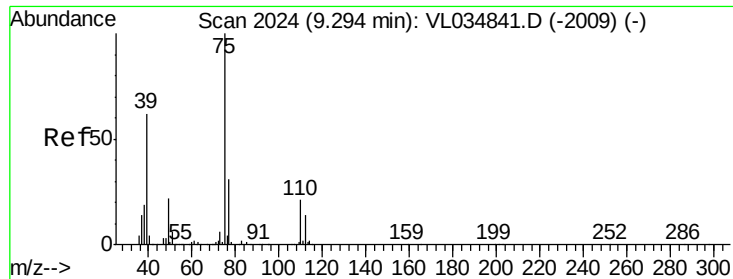
Delta R.T. -0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	34.3	26.2	39.4	
56	31.8	25.0	37.4	





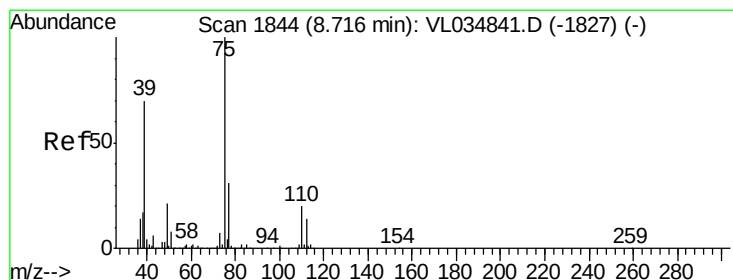
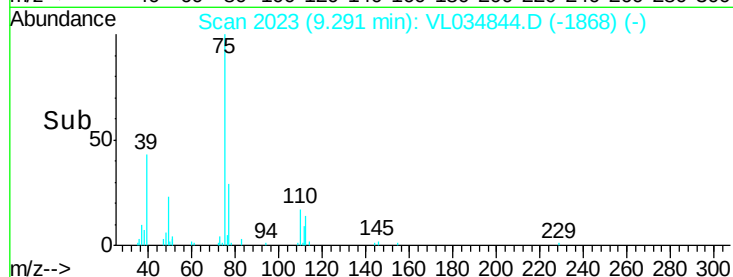
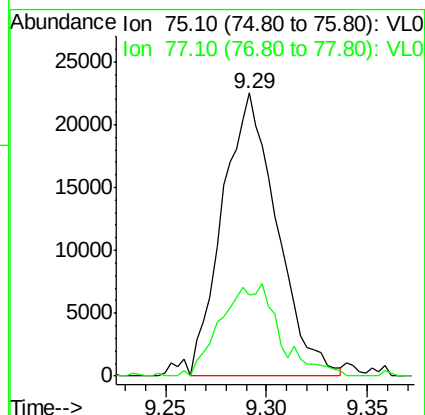
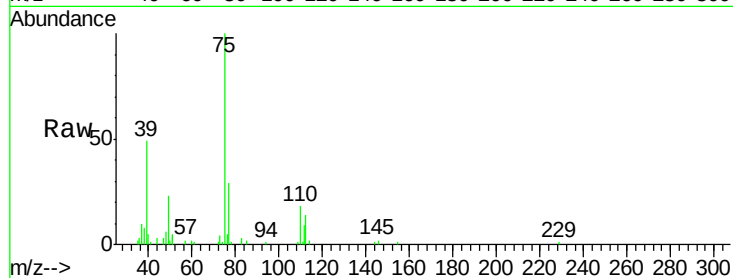
#45
t-1,3-Dichloropropene
Concen: 0.523 ppbv
RT: 9.29 min Scan# 2023
Delta R.T. -0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion: 75 Resp: 42349
Ion Ratio Lower Upper
75 100
77 28.9 24.6 37.0

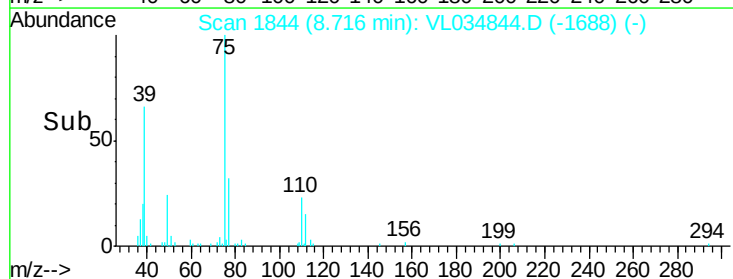
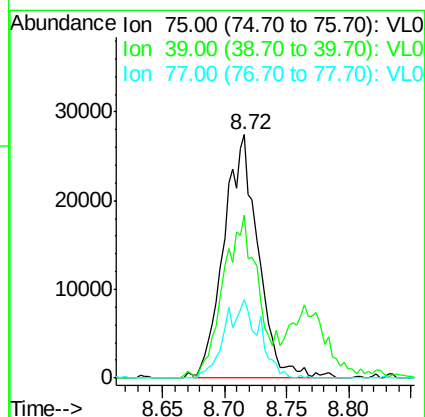
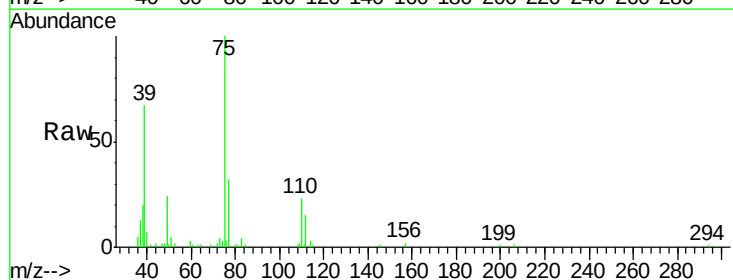
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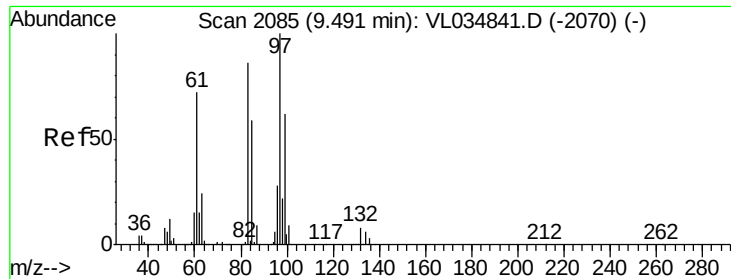
MMDadoda
3/11/2020 3:26:02 PM



#46
cis-1,3-Dichloropropene
Concen: 0.533 ppbv m
RT: 8.72 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion: 75 Resp: 52740
Ion Ratio Lower Upper
75 100
39 67.2 55.7 83.5
77 32.3 24.7 37.1





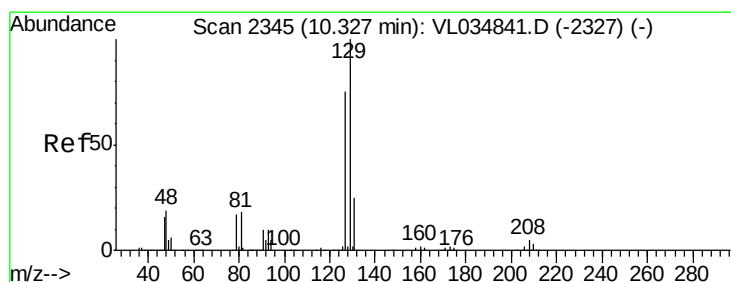
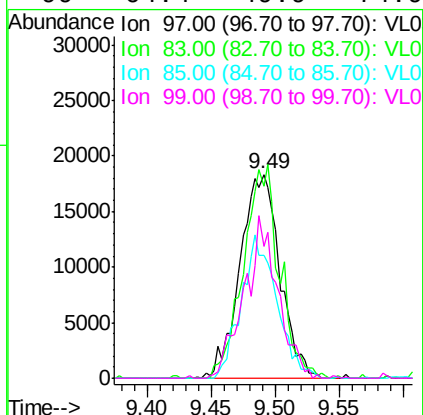
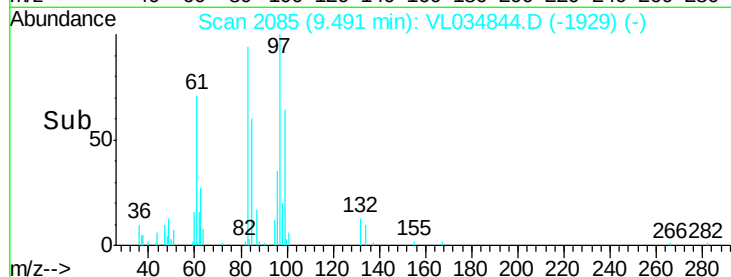
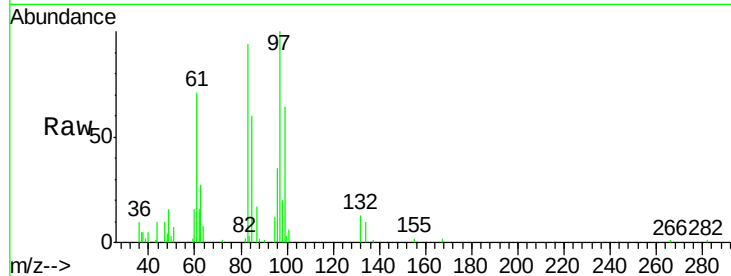
#47
 1,1,2-Trichloroethane
 Concen: 0.510 ppbv m
 RT: 9.49 min Scan# 2085
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	94.0	68.6	102.8	
85	60.0	46.9	70.3	
99	64.4	49.9	74.9	

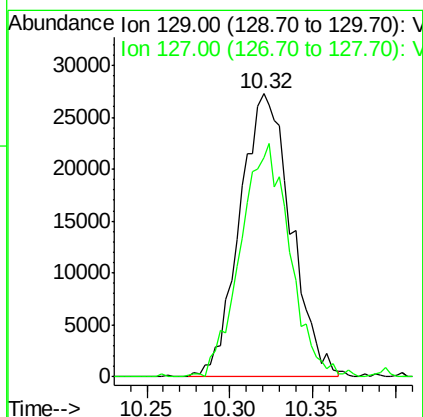
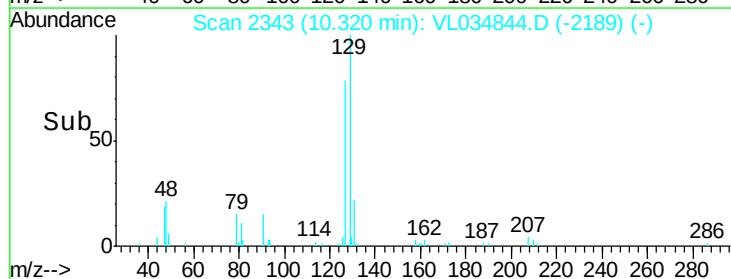
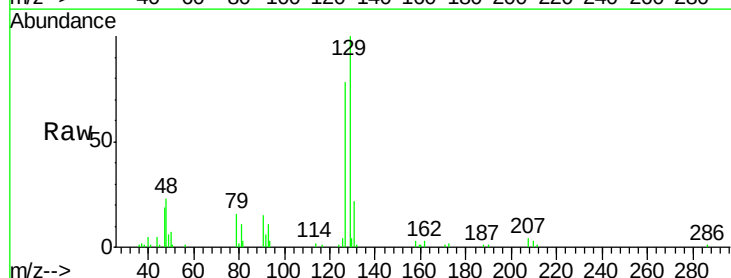
Manual Integrations
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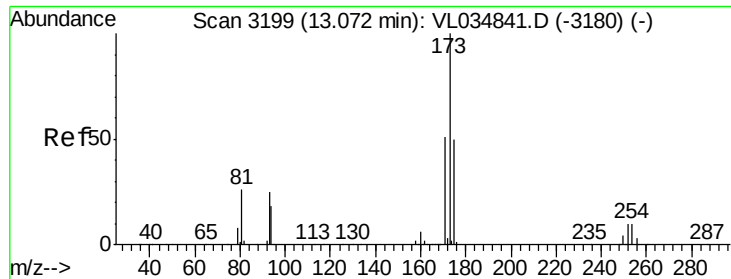
MMDadoda
 3/11/2020 3:26:02 PM



#48
 Dibromochloromethane
 Concen: 0.482 ppbv
 RT: 10.32 min Scan# 2343
 Delta R.T. -0.01 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	80.2	39.6	118.7	





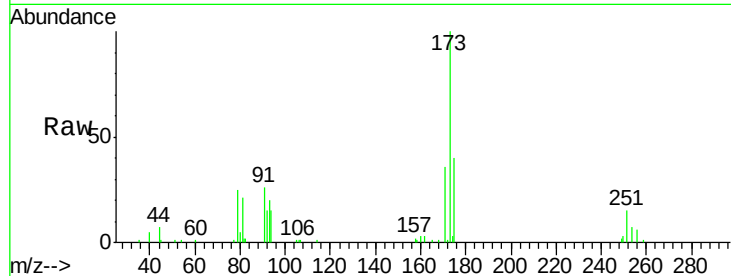
#49
Bromoform
Concen: 0.470 ppbv m
RT: 13.08 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

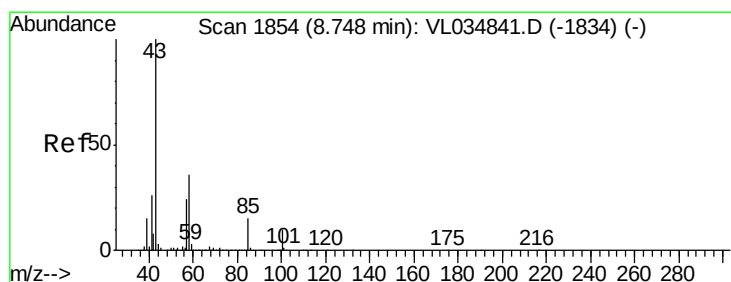
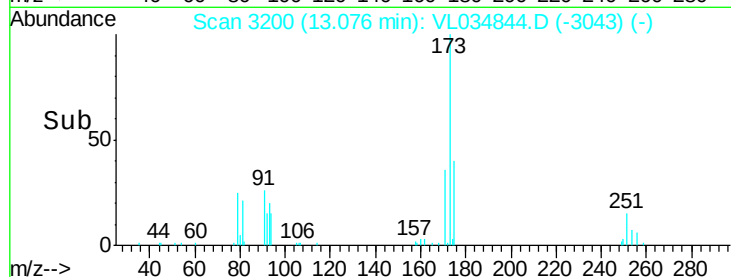
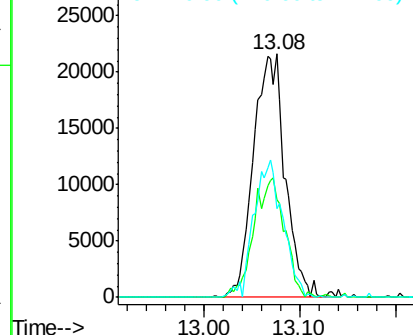
Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.6	59.4#
171	0.0	41.0	61.6#

Manual Integrations
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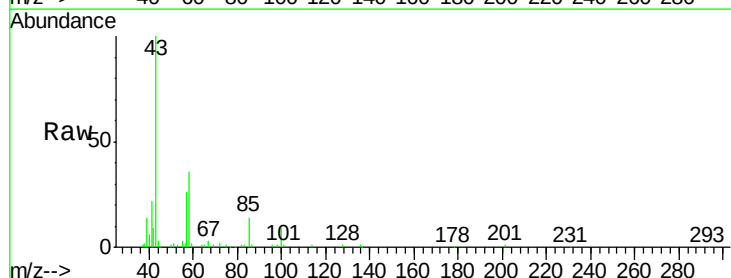


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

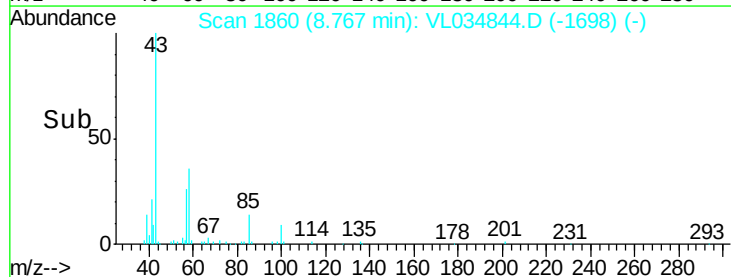
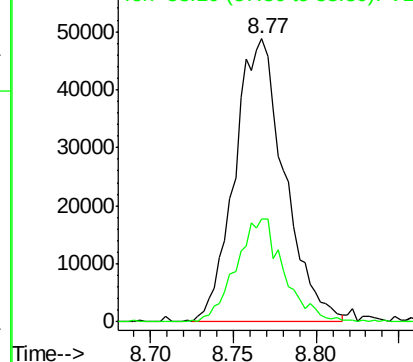


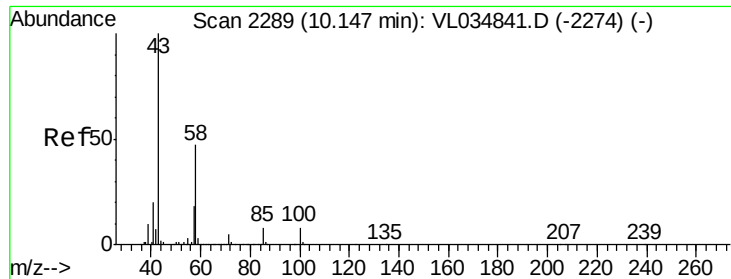
#50
4-Methyl-2-Pentanone
Concen: 0.513 ppbv
RT: 8.77 min Scan# 1860
Delta R.T. 0.02 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.1	28.6	42.8



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





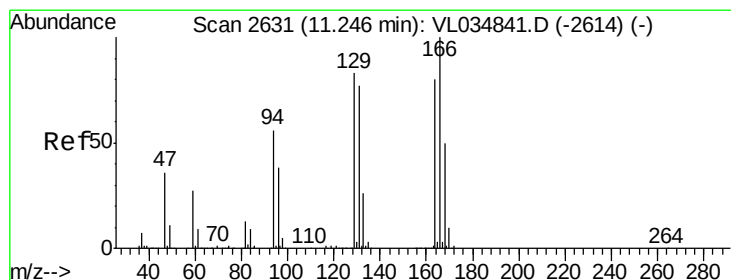
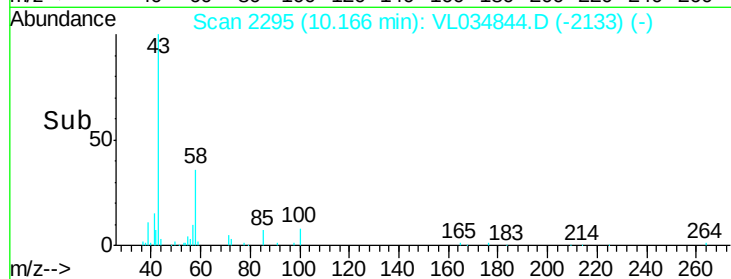
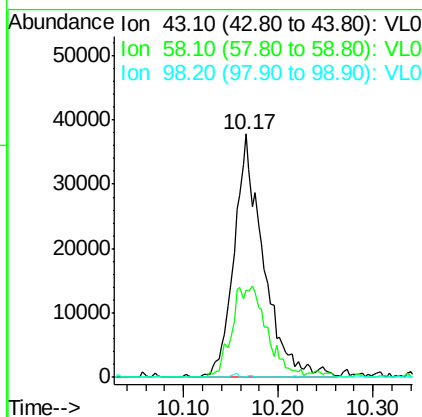
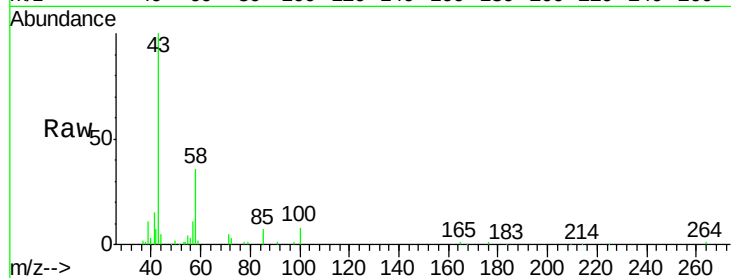
#51
2-Hexanone
Concen: 0.523 ppbv m
RT: 10.17 min Scan# 2295
Delta R.T. 0.02 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.3	38.6	58.0
98	0.4	0.1	0.1#

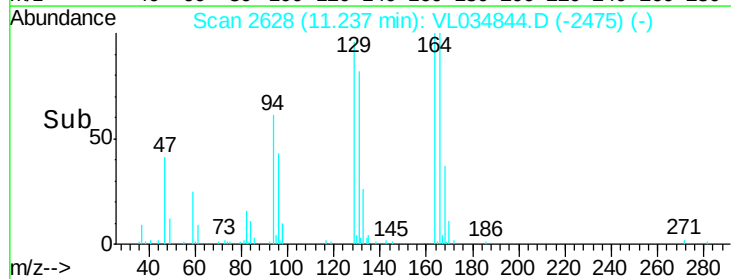
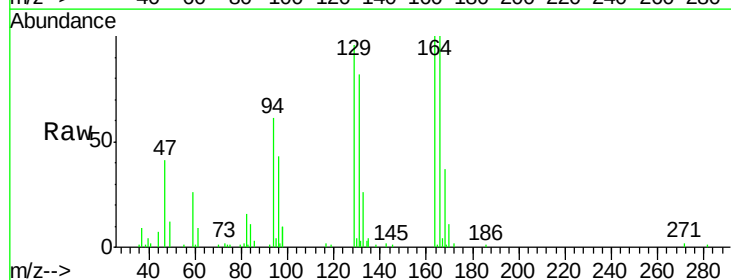
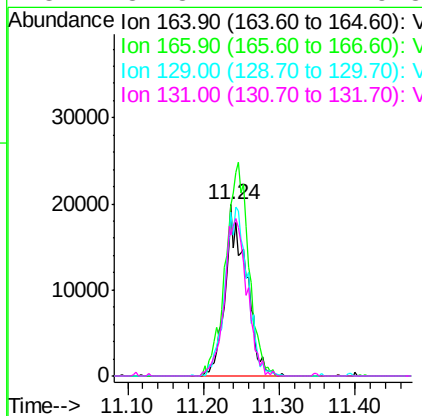
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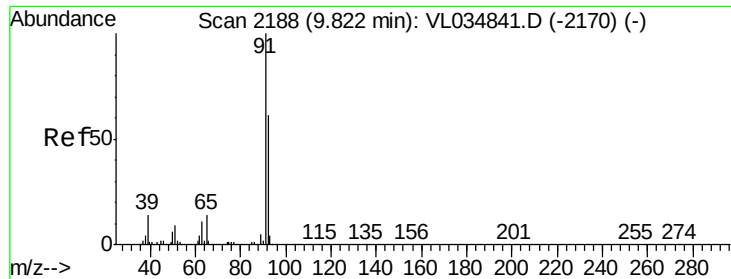
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#52
Tetrachloroethene
Concen: 0.575 ppbv m
RT: 11.24 min Scan# 2628
Delta R.T. -0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	99.6	100.0	150.0#
129	95.7	83.1	124.7
131	81.8	77.2	115.8





#53

Toluene

Concen: 0.578 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 111391

Ion Ratio Lower Upper

91 100

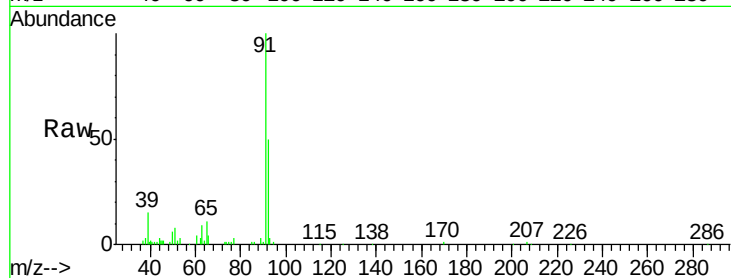
92 59.2 48.6 72.8

Manual Integrations

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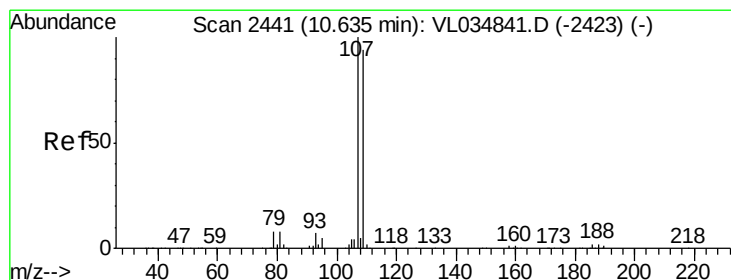
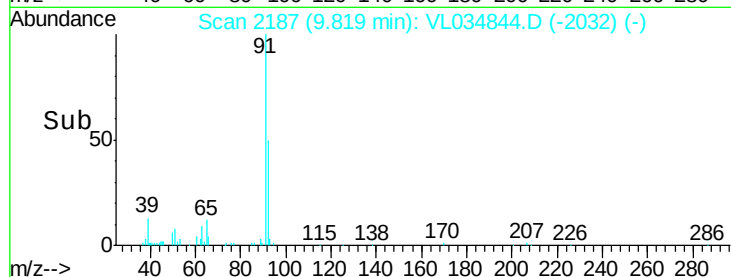
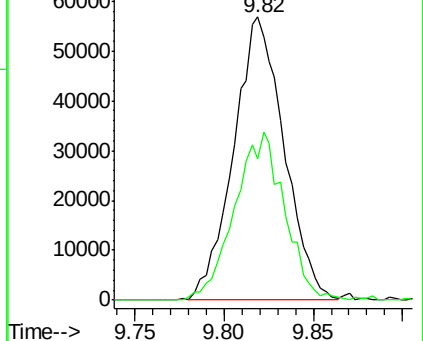
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.501 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.00 min

Lab File: VL034844.D

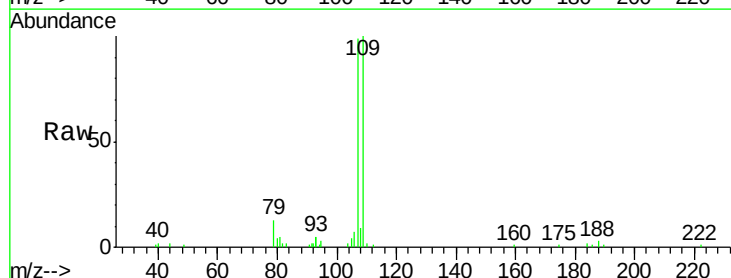
Acq: 9 Mar 2020 14:13

Tgt Ion: 107 Resp: 57512

Ion Ratio Lower Upper

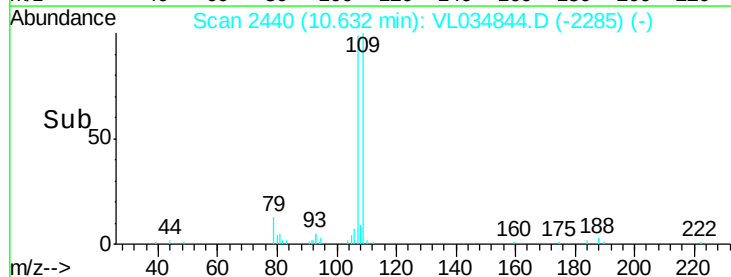
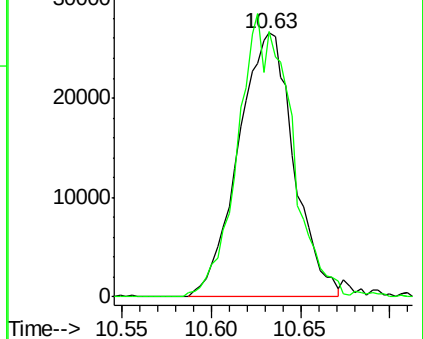
107 100

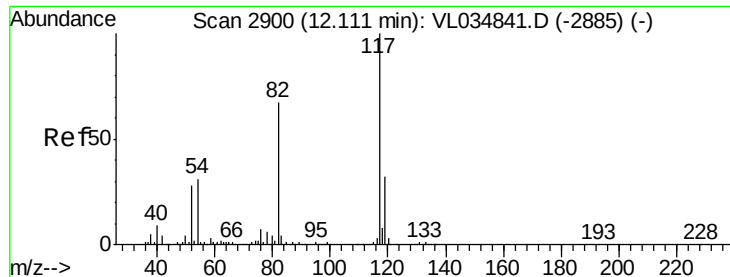
109 99.4 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





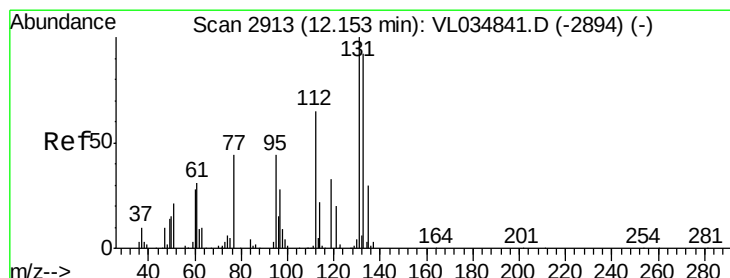
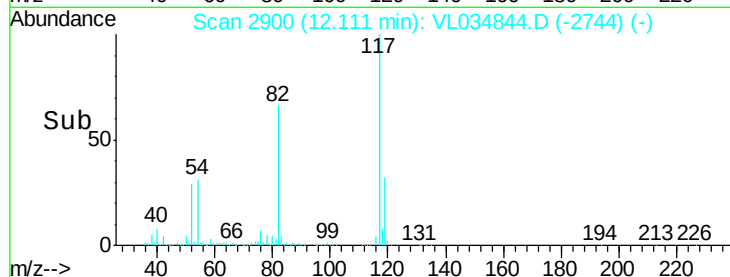
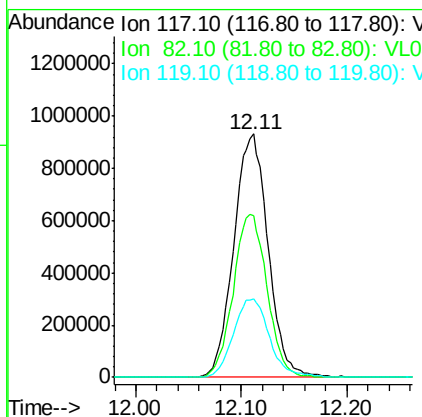
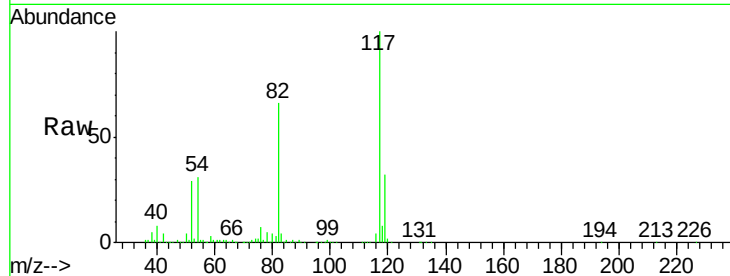
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.1	51.1	76.7
119	34.1	27.3	40.9

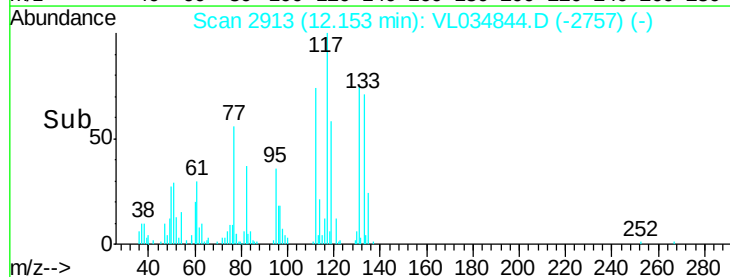
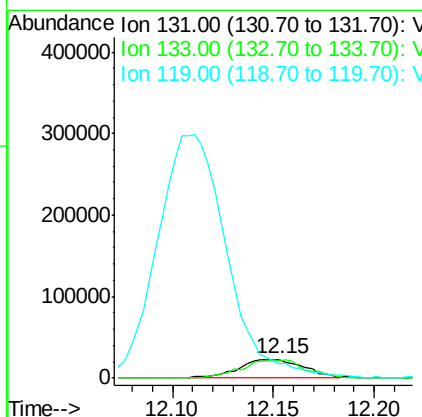
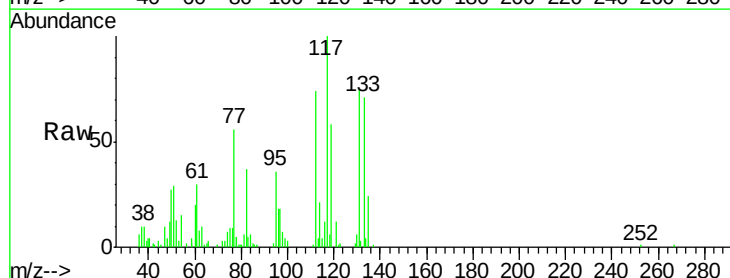
Manual Integrations
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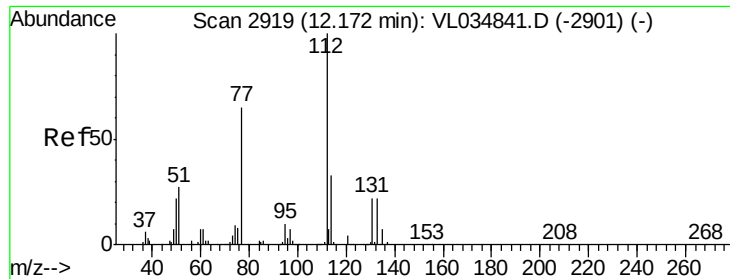
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.543 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
131	100		
133	99.1	76.0	114.0
119	1419.1	47.8	71.8#





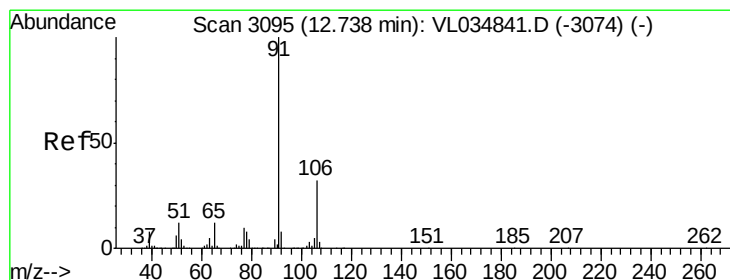
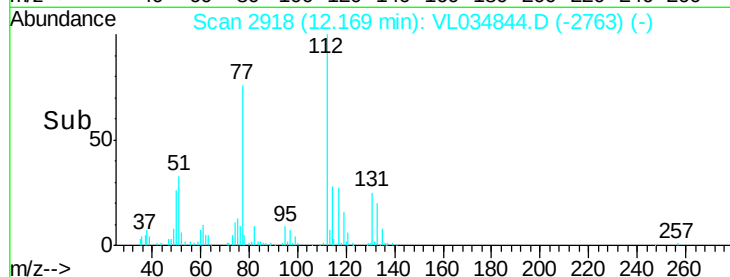
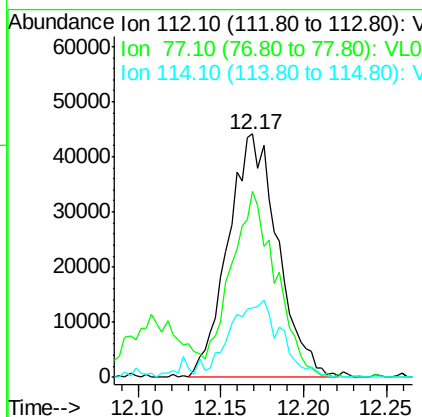
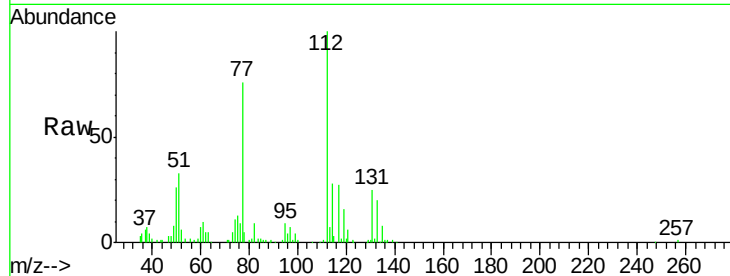
#57
Chlorobenzene
Concen: 0.576 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. -0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	75.3	53.0	79.6
114	28.3	29.5	36.1#

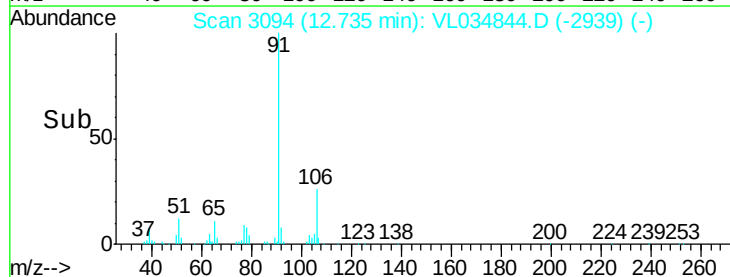
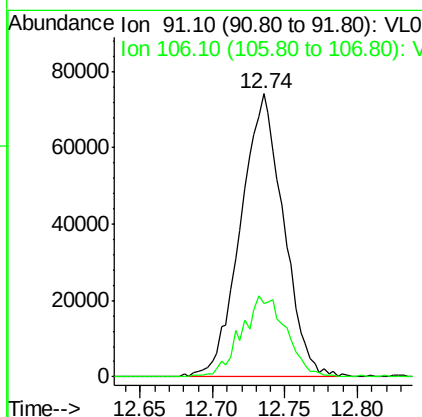
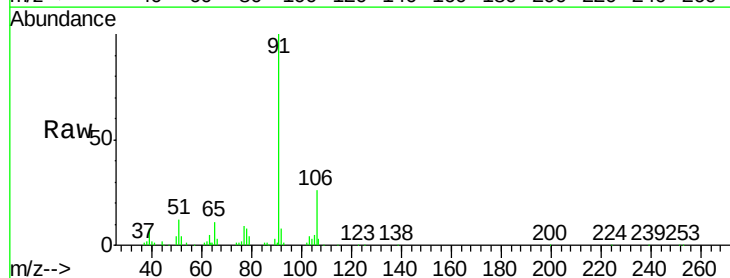
Manual Integrations
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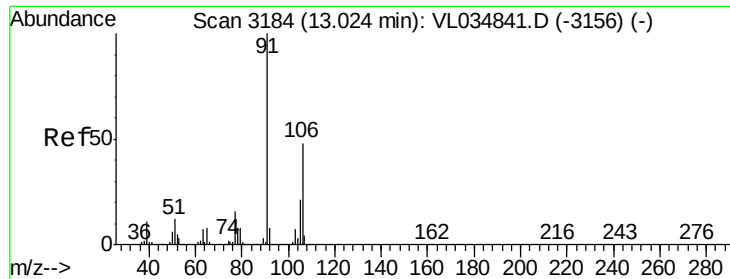
MMDadoda
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#58
Ethyl Benzene
Concen: 0.587 ppbv
RT: 12.74 min Scan# 3094
Delta R.T. -0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.2	25.8	38.6





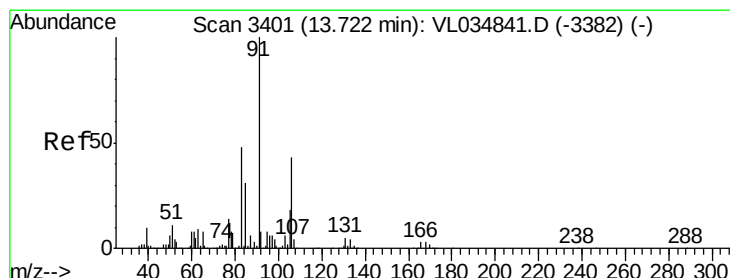
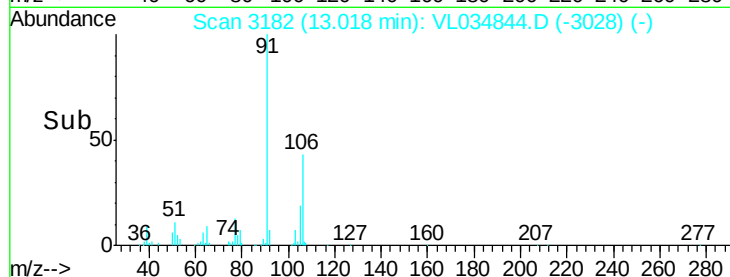
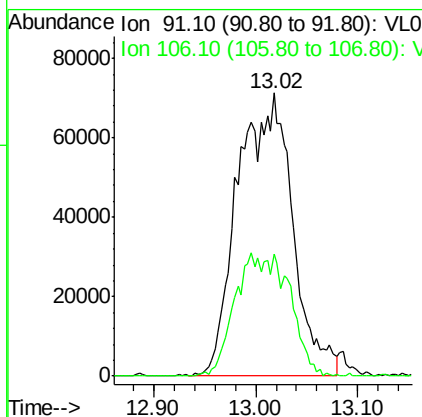
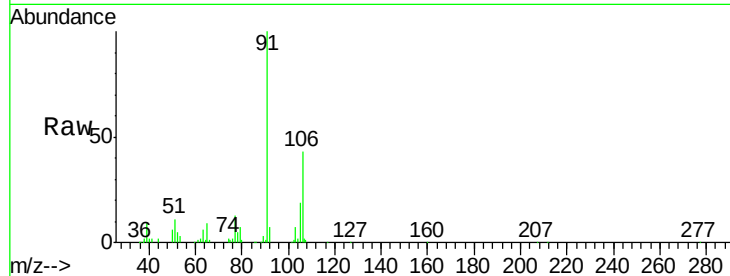
#59
m/p-Xylene
Concen: 1.183 ppbv m
RT: 13.02 min Scan# 3182
Delta R.T. -0.01 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 265672
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#

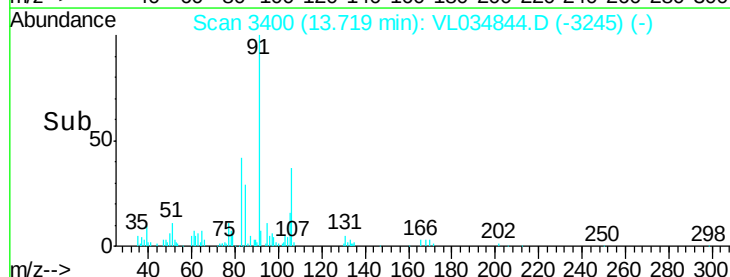
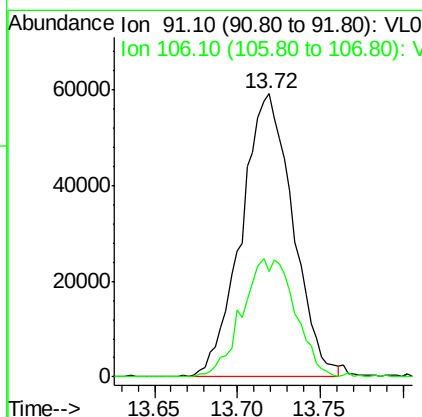
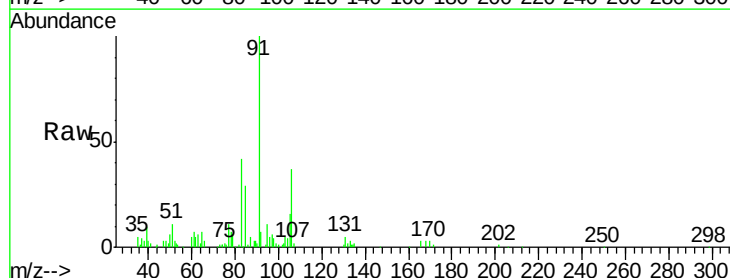
Manual Integrations
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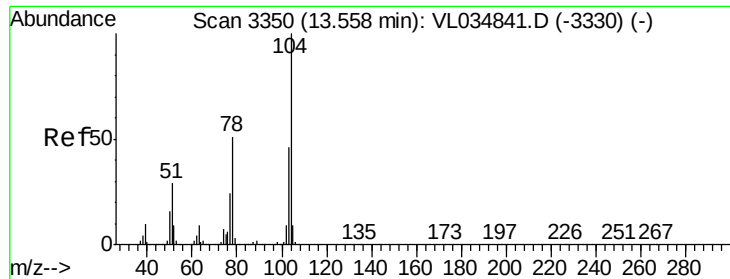
MMDadoda
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#60
o-Xylene
Concen: 0.559 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL034844.D
Acq: 9 Mar 2020 14:13

Tgt Ion: 91 Resp: 126961
Ion Ratio Lower Upper
91 100
106 43.2 22.5 67.5





#61

Stvrene

Concen: 0.565 ppbv m

RT: 13.55 min Scan# 3348

Delta R.T. -0.01 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

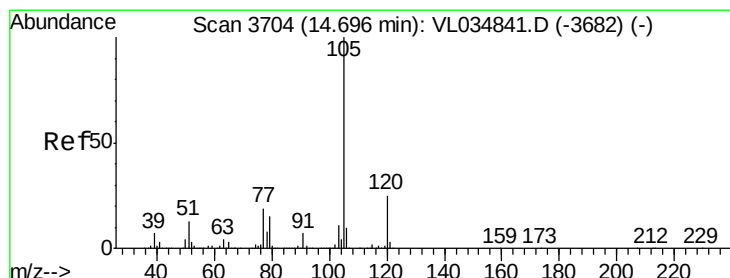
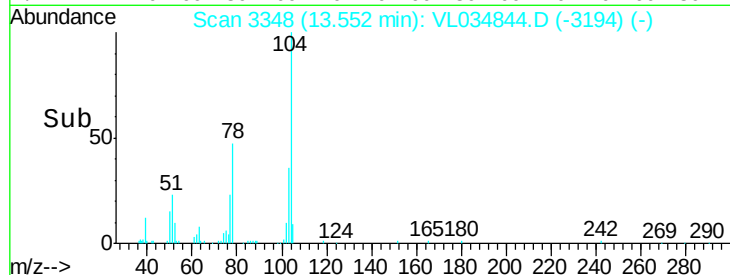
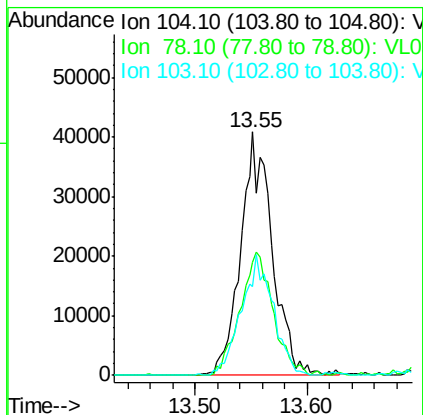
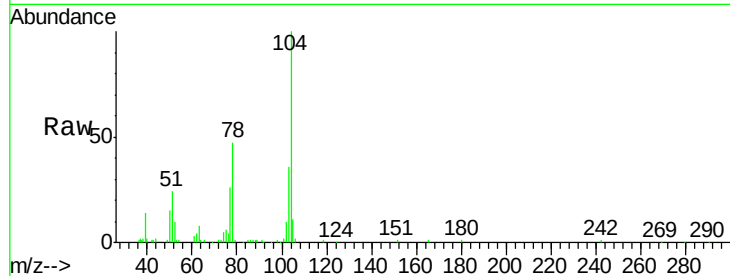
ClientSampled :

VSTDIC0.5

Tot Ion:	104	Resp:	79606
Ion Ratio	Lower	Upper	
104	100		
78	53.6	41.8	62.6
103	49.5	37.8	56.6

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.576 ppbv

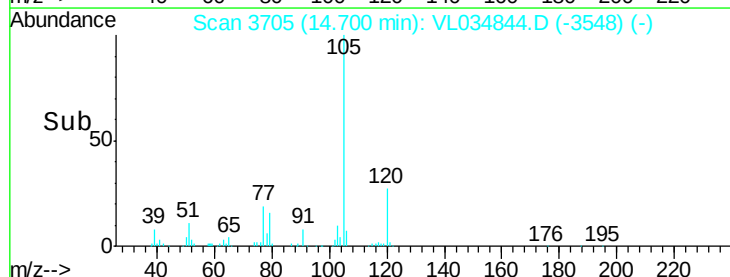
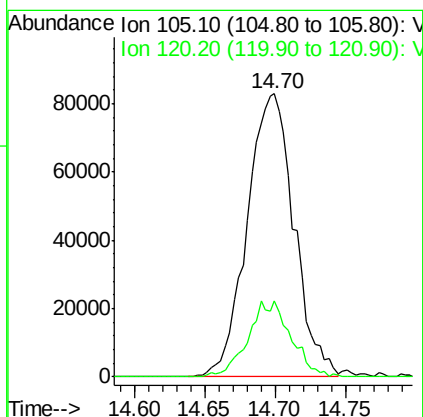
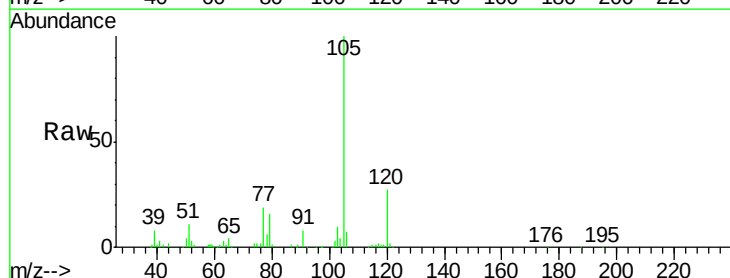
RT: 14.70 min Scan# 3705

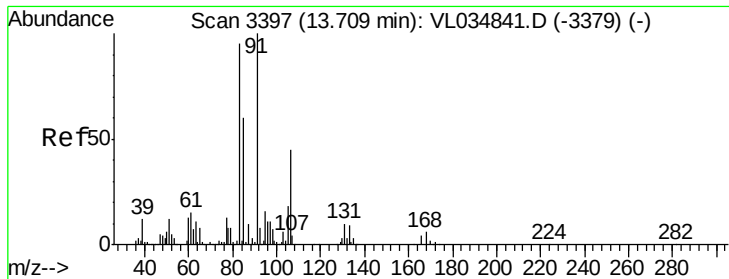
Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion:	105	Resp:	192625
Ion Ratio	Lower	Upper	
105	100		
120	24.4	21.0	31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.494 ppbv m

RT: 13.71 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 88459

Ion Ratio Lower Upper

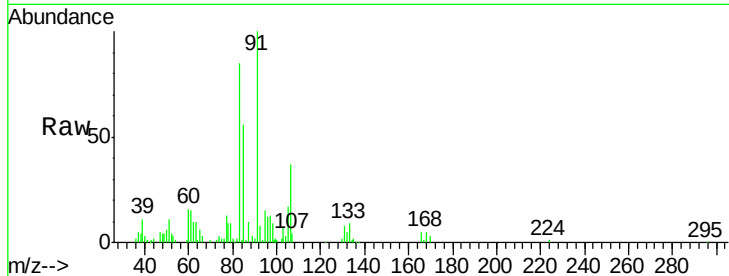
83 100

131 10.1 5.0 14.9

85 64.2 32.4 97.2

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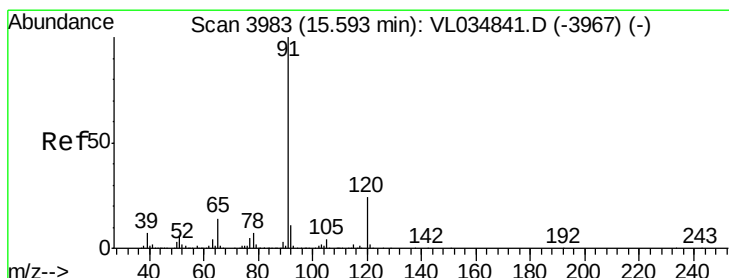
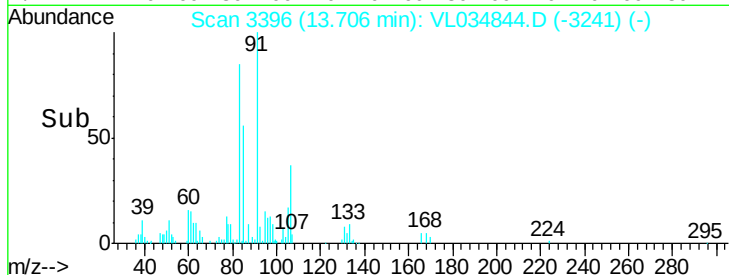
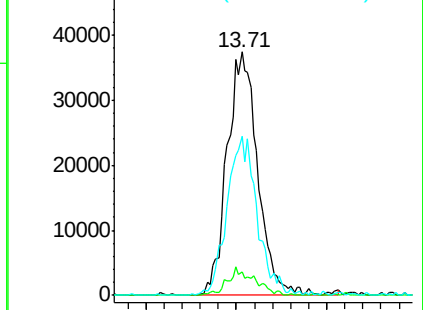
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.587 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VL034844.D

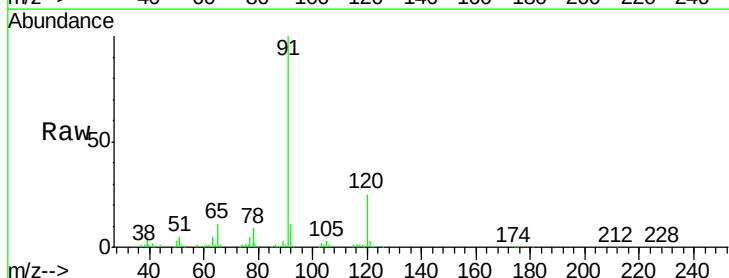
Acq: 9 Mar 2020 14:13

Tgt Ion: 120 Resp: 49209

Ion Ratio Lower Upper

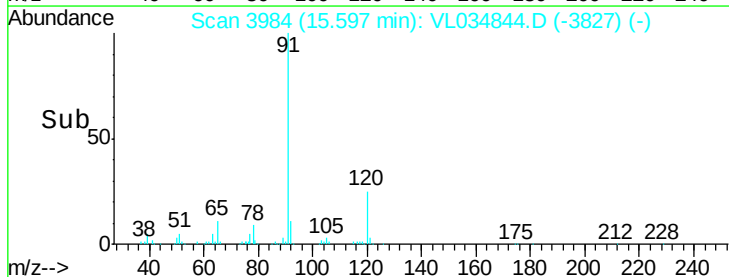
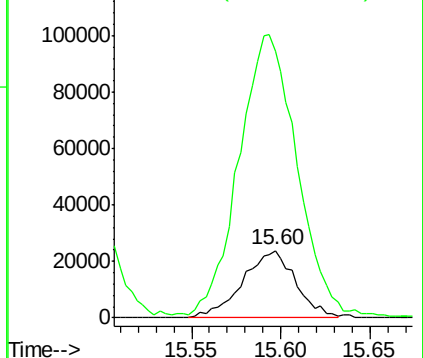
120 100

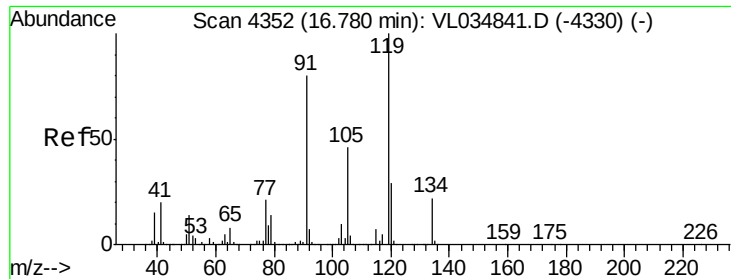
91 472.5 360.9 541.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





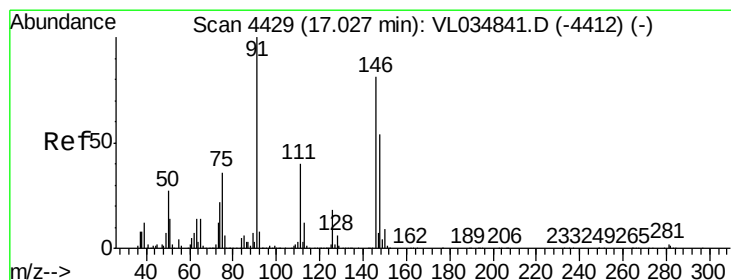
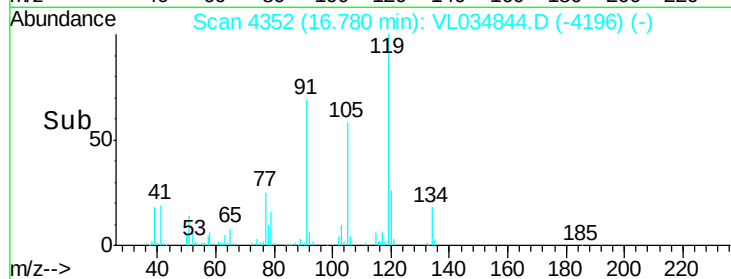
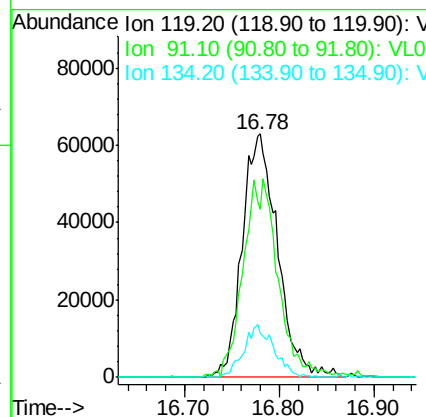
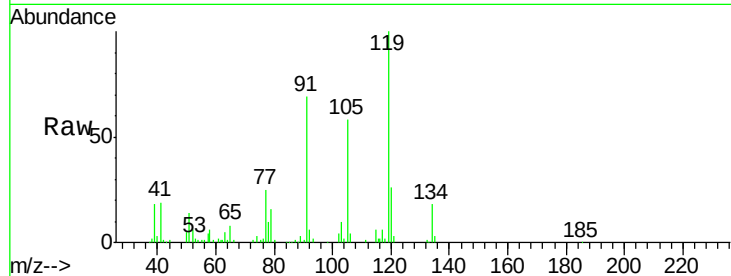
#65
 tert-Butylbenzene
 Concen: 0.579 ppbv m
 RT: 16.78 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	163740		
91	80.9	64.9	97.3	
134	18.3	15.9	23.9	

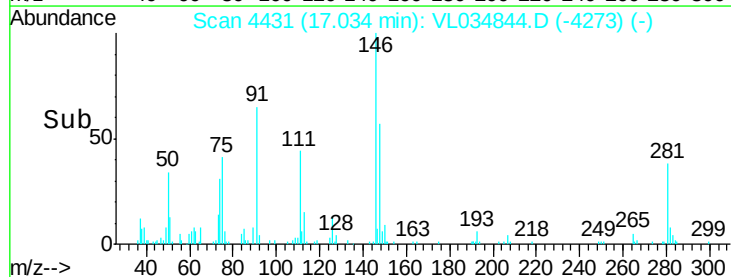
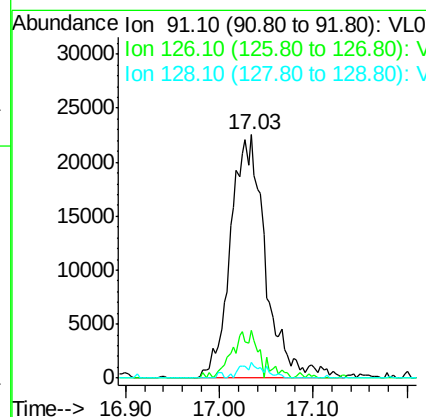
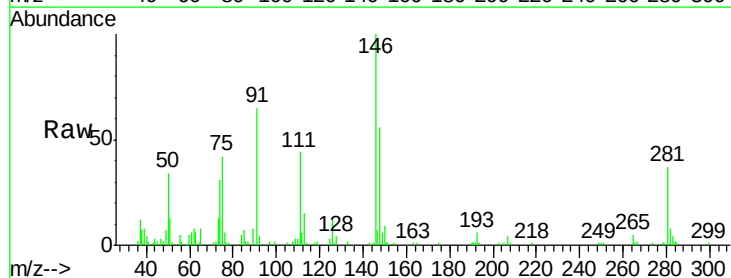
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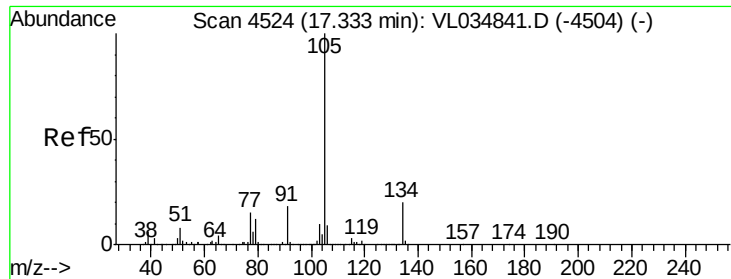
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 3/11/2020 3:26:02 PM



#66
 Benzyl Chloride
 Concen: 0.637 ppbv m
 RT: 17.03 min Scan# 4431
 Delta R.T. 0.01 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	58256		
126	0.0	14.7	22.1#	
128	0.0	4.7	7.1#	





#67

sec-Butylbenzene

Concen: 0.524 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 215685

Ion Ratio Lower Upper

105 100

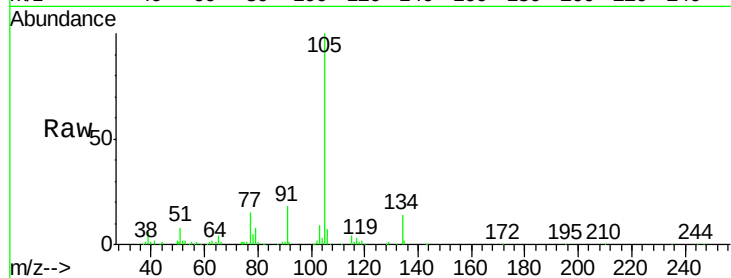
134 18.7 15.0 22.6

Manual Integrations

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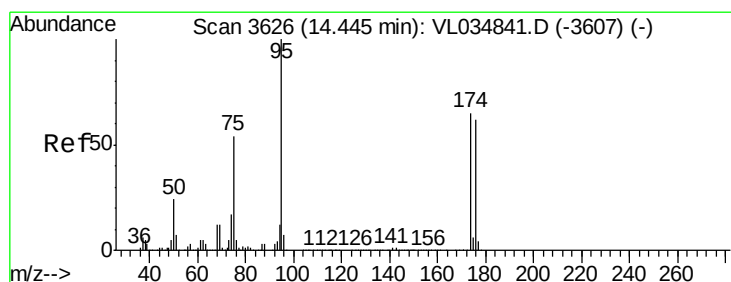
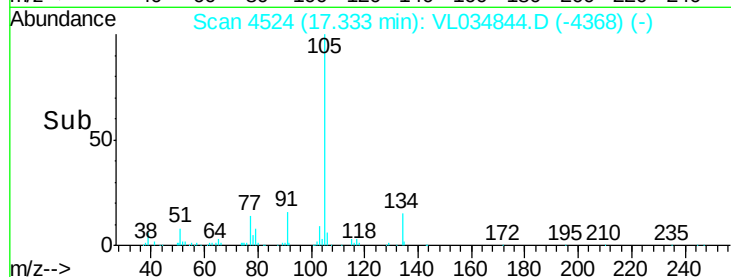
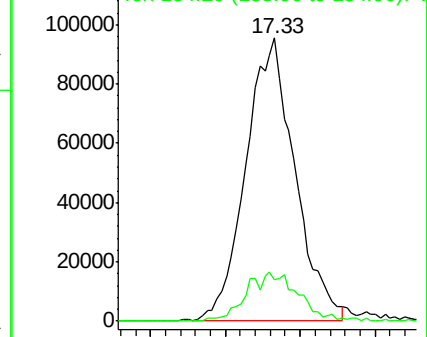
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.612 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

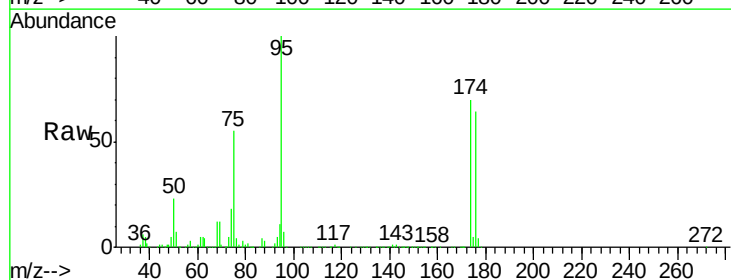
Tgt Ion: 95 Resp: 1687867

Ion Ratio Lower Upper

95 100

174 67.3 55.2 82.8

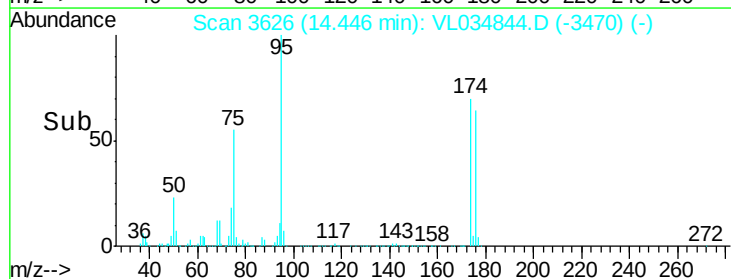
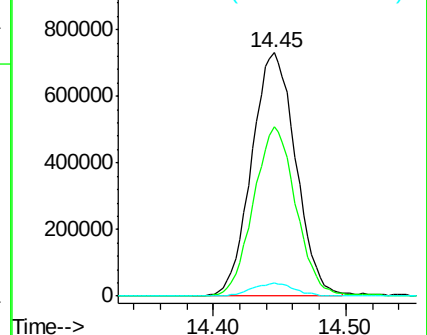
175 5.3 4.3 6.5

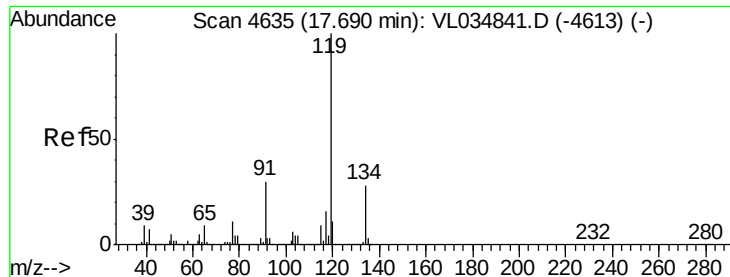


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





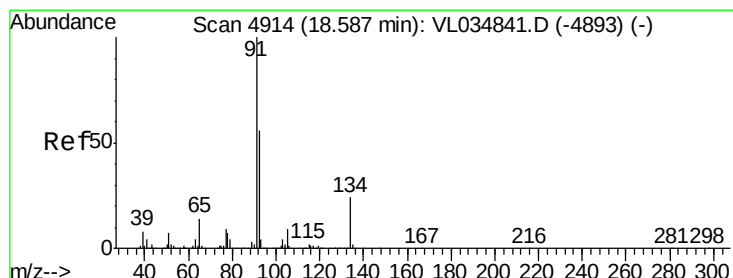
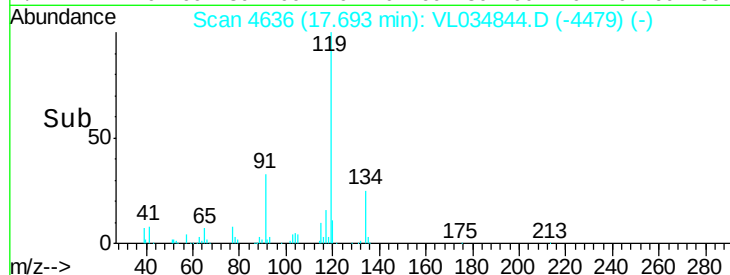
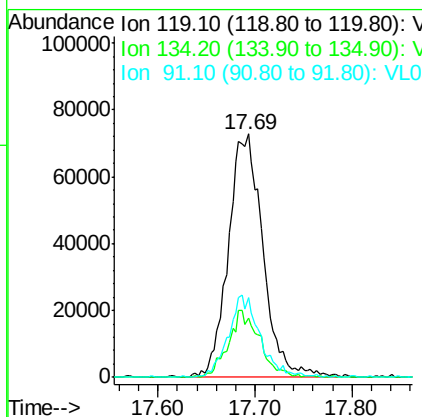
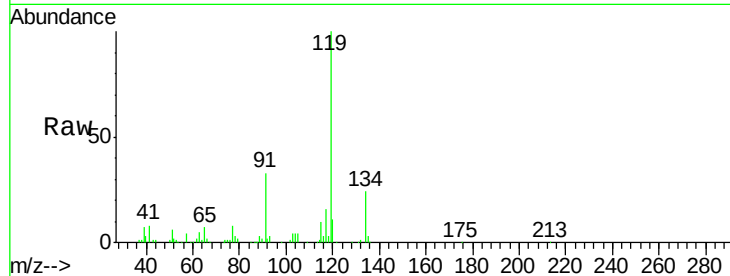
#69
 p-Isopropyltoluene
 Concen: 0.540 ppbv m
 RT: 17.69 min Scan# 4636
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp Lower	Upper
119	100		
134	0.0	20.6	30.8#
91	0.0	23.4	35.2#

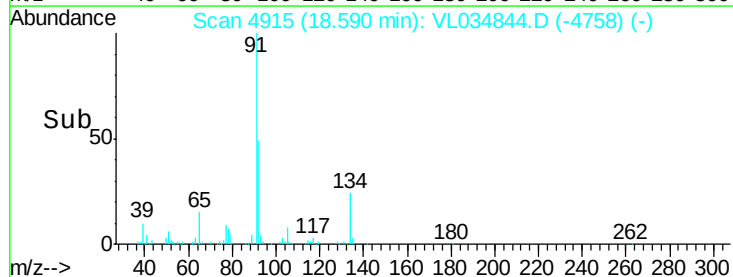
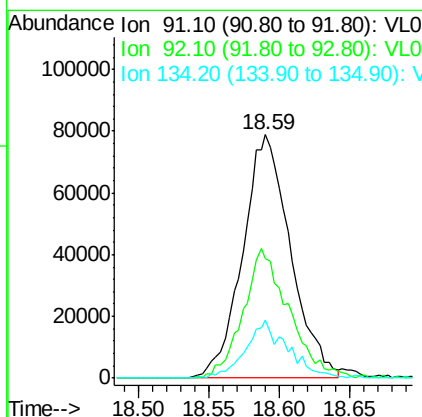
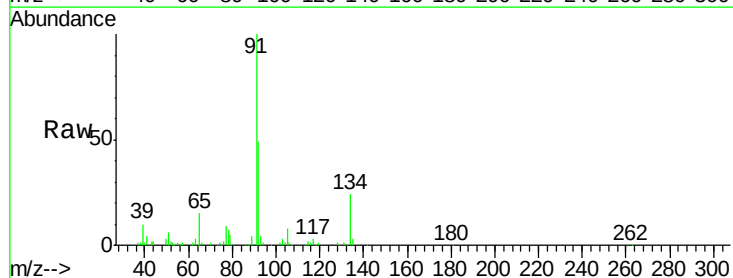
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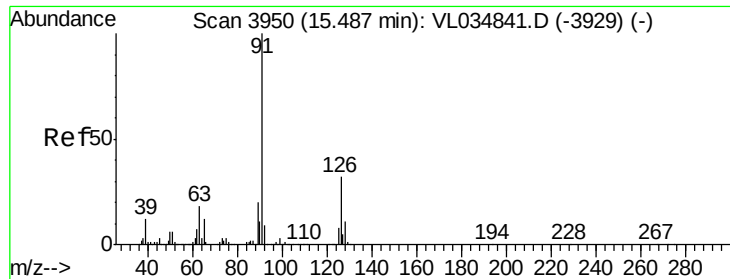
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 3/11/2020 3:26:02 PM



#70
 n-Butylbenzene
 Concen: 0.512 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
92	51.0	43.8	65.6
134	21.1	19.0	28.4





#71

2-Chlorotoluene

Concen: 0.561 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 141709

Ion Ratio Lower Upper

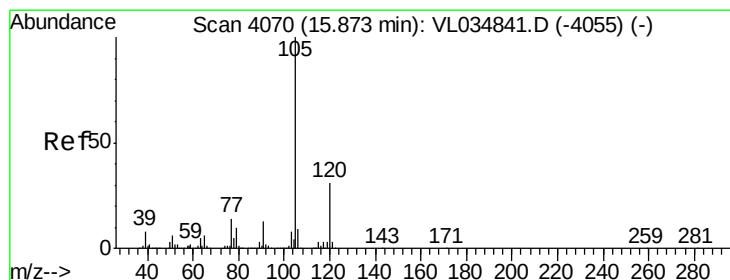
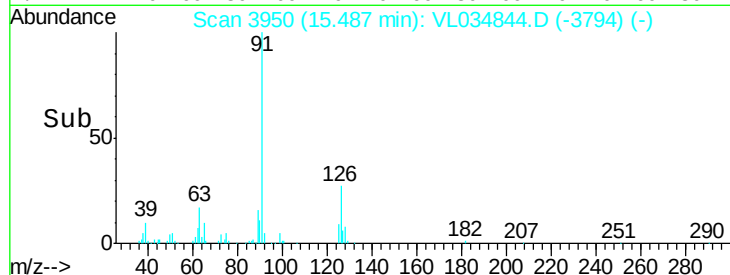
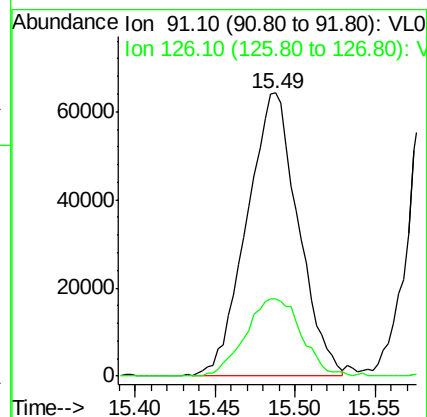
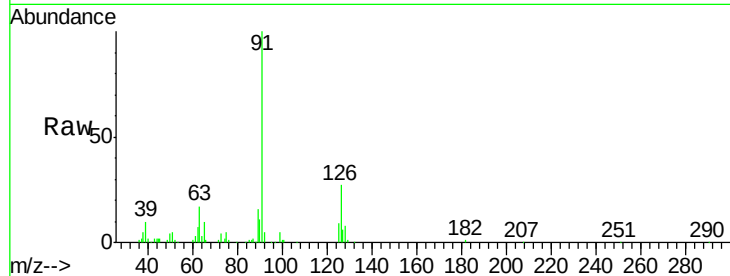
91 100

126 29.8 12.3 49.1

Manual Integrations
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#72

4-Ethyltoluene

Concen: 0.578 ppbv m

RT: 15.88 min Scan# 4071

Delta R.T. 0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion: 105 Resp: 146182

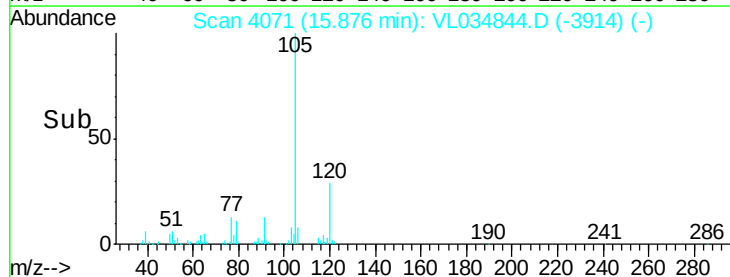
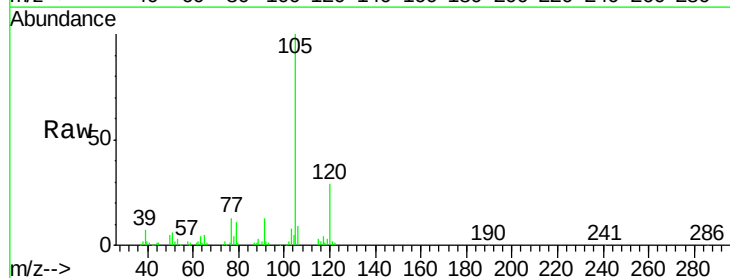
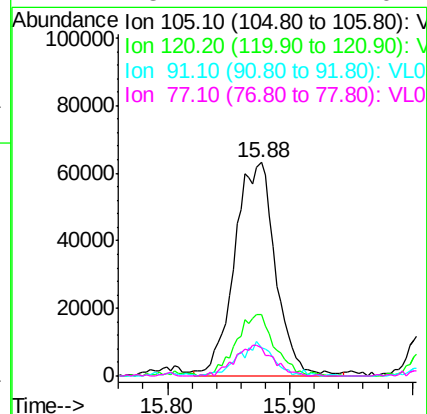
Ion Ratio Lower Upper

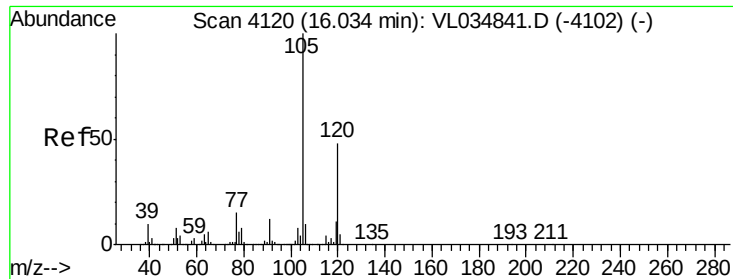
105 100

120 27.2 23.7 35.5

91 14.1 10.5 15.7

77 13.7 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.558 ppbv m

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 135367

Ion Ratio Lower Upper

105 100

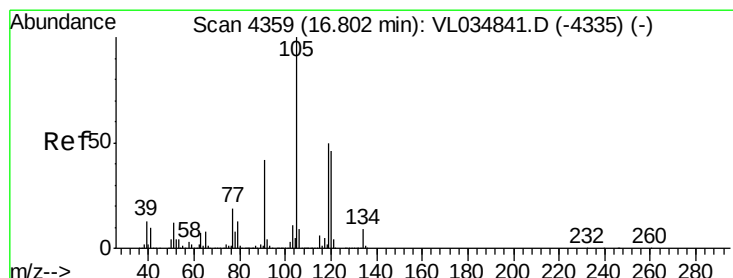
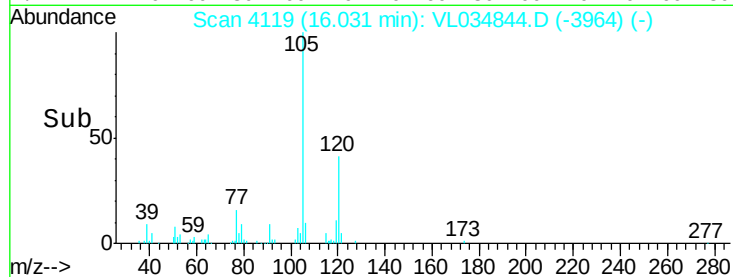
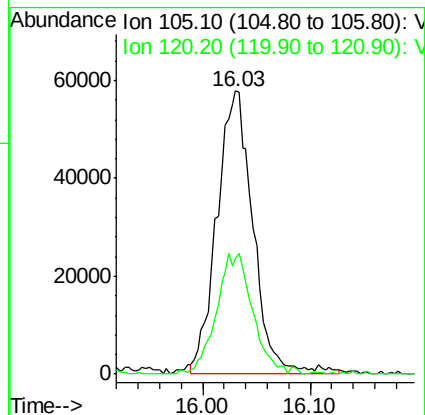
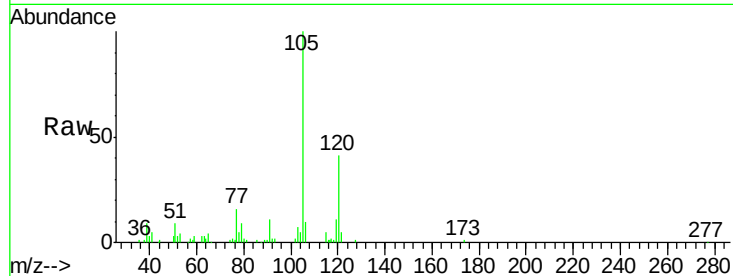
120 40.7 38.6 58.0

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#74

1,2,4-Trimethylbenzene

Concen: 0.530 ppbv m

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion:105 Resp: 139922

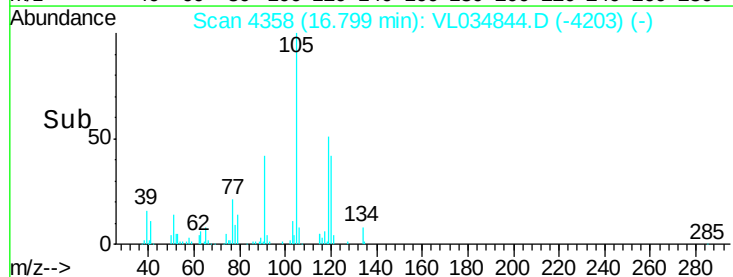
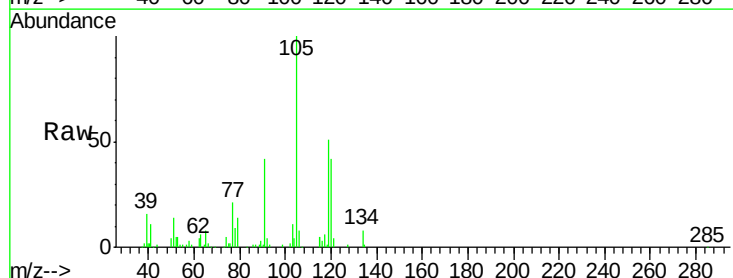
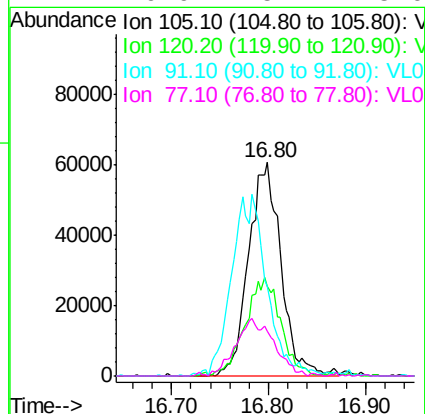
Ion Ratio Lower Upper

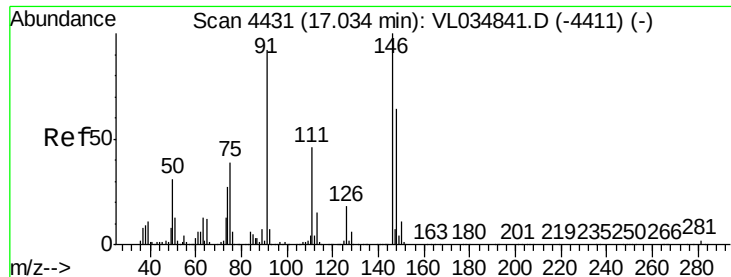
105 100

120 41.8 37.0 55.4

91 42.2 33.8 50.6

77 20.9 15.4 23.0





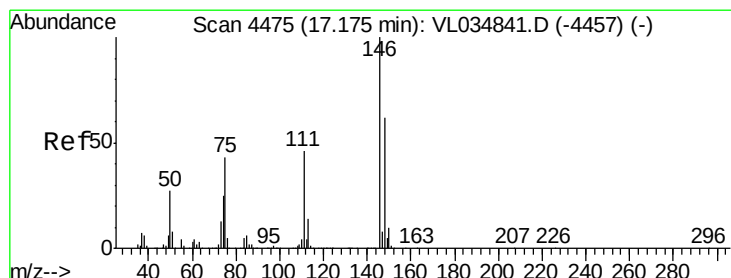
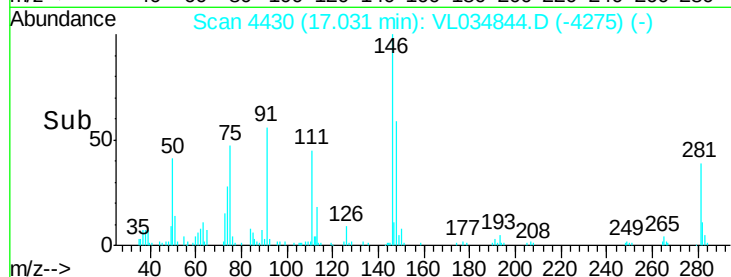
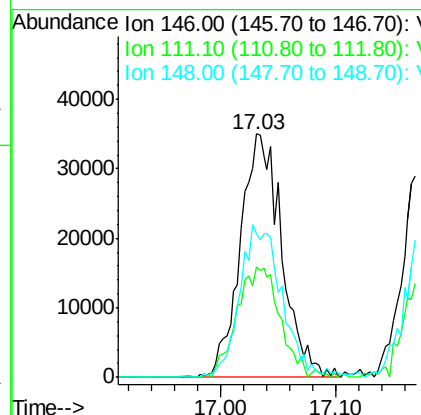
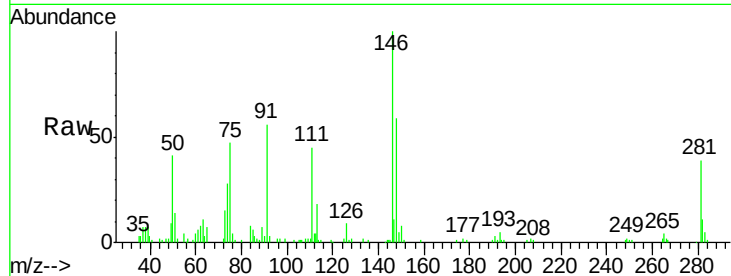
#75
 1,3-Dichlorobenzene
 Concen: 0.557 ppbv m
 RT: 17.03 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.1	23.9	71.7
148	63.7	32.5	97.5

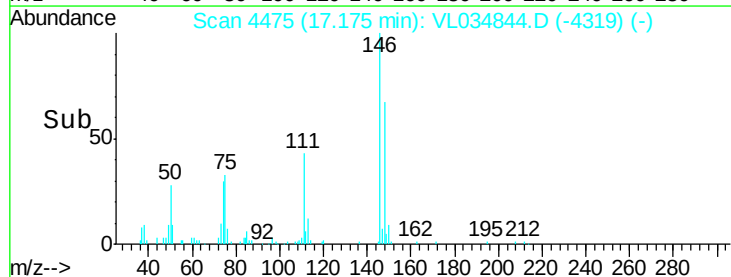
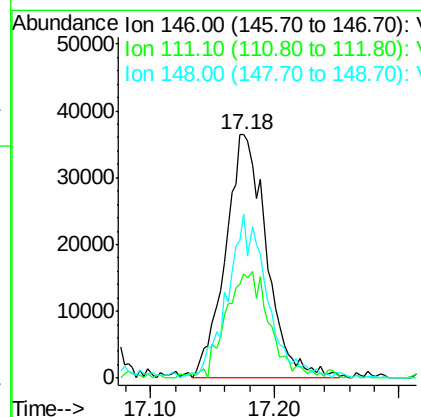
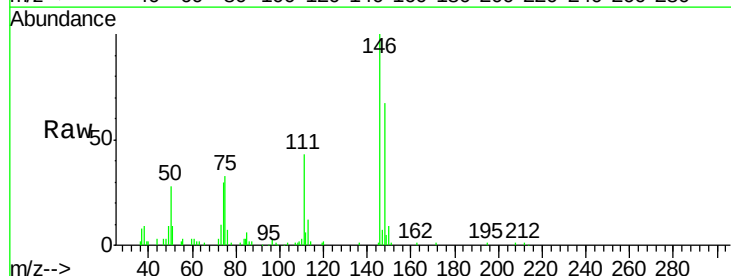
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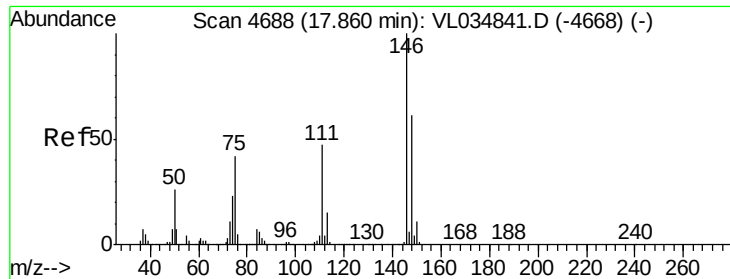
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#76
 1,4-Dichlorobenzene
 Concen: 0.563 ppbv m
 RT: 17.18 min Scan# 4475
 Delta R.T. 0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	23.4	70.2
148	64.9	32.3	96.9





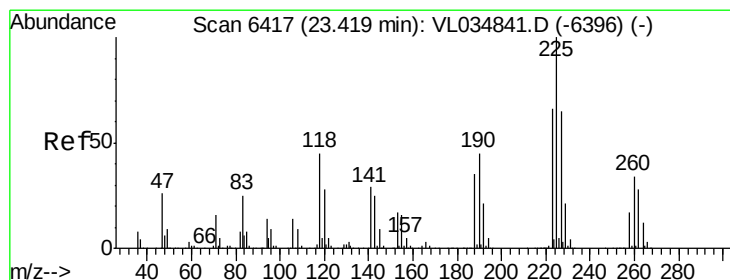
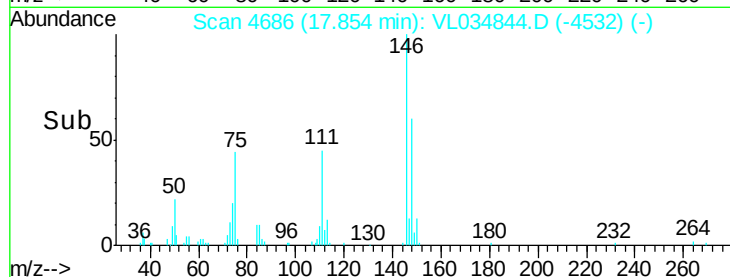
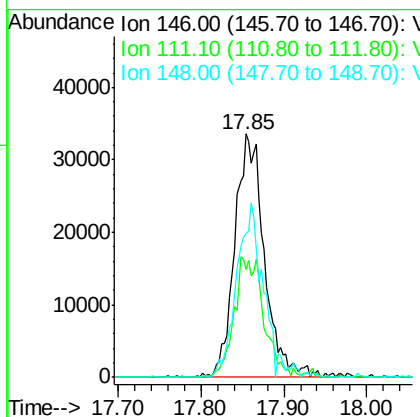
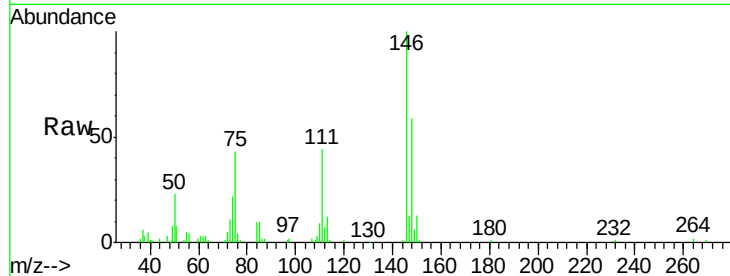
#77
 1,2-Dichlorobenzene
 Concen: 0.557 ppbv m
 RT: 17.85 min Scan# 4686
 Delta R.T. -0.01 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.8	71.4#
148	0.0	31.6	94.8#

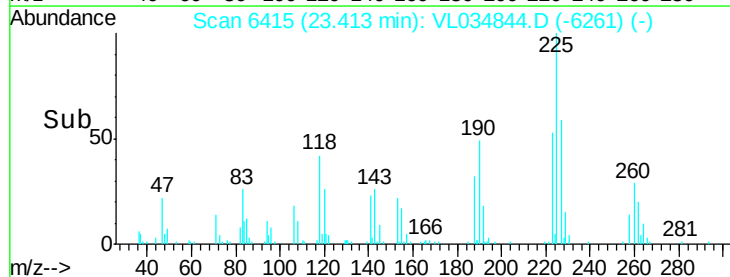
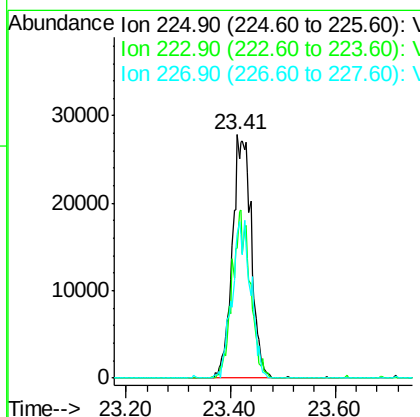
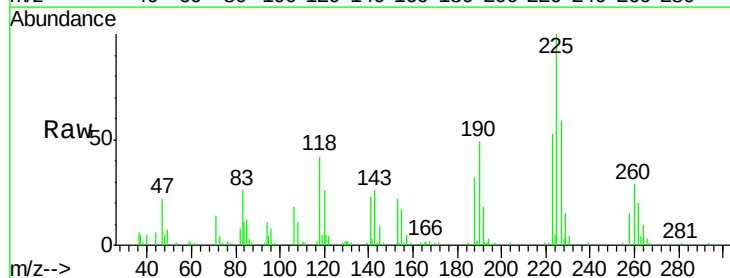
Manual Integrations
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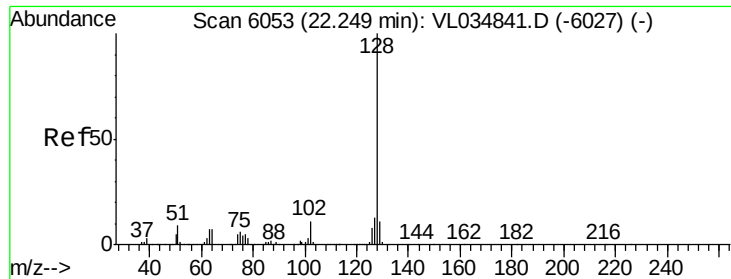
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.558 ppbv m
 RT: 23.41 min Scan# 6415
 Delta R.T. -0.01 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.6	51.1	76.7
227	0.0	51.8	77.6#





#79

Naphthalene

Concen: 0.423 ppbv m

RT: 22.26 min Scan# 6056

Delta R.T. 0.01 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Instrument :

MSVOA_L

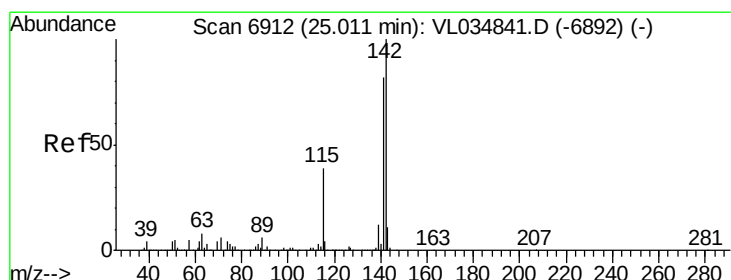
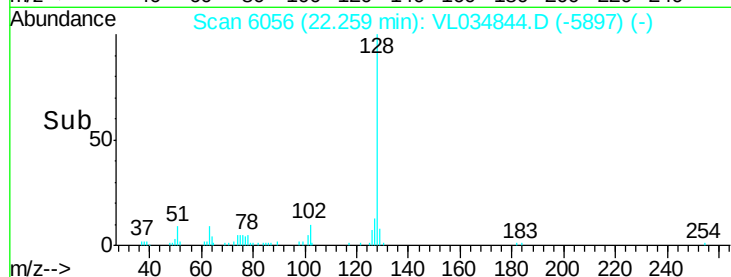
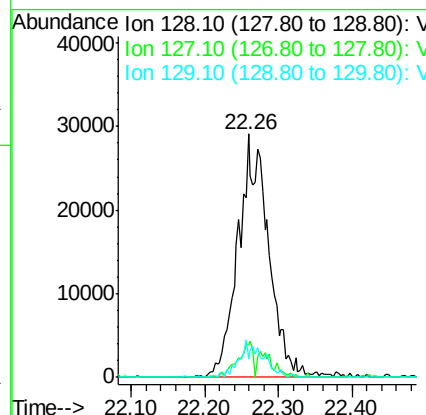
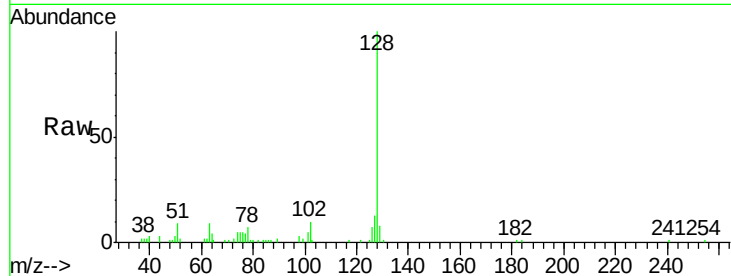
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	7.7	8.6	13.0

Manual Integrations
APPROVED

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3/11/2020 3:26:02 PM



#80

Naphthalene, 2-methyl-

Concen: 0.152 ppbv

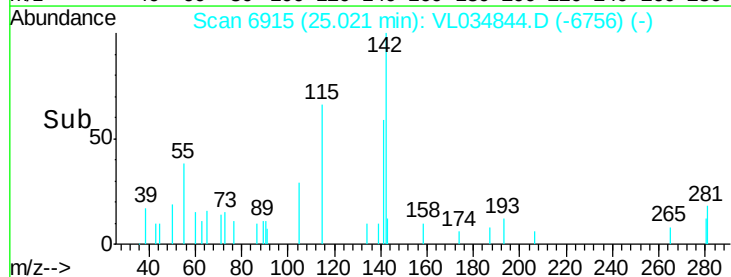
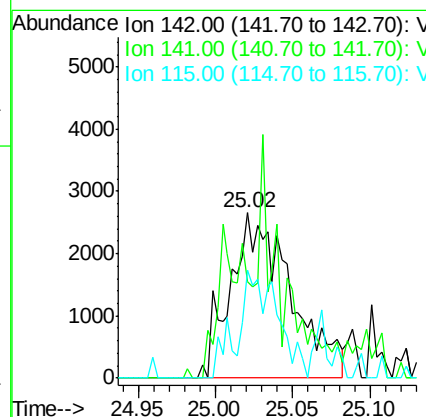
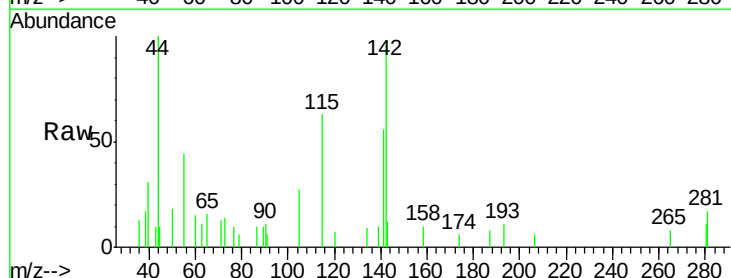
RT: 25.02 min Scan# 6915

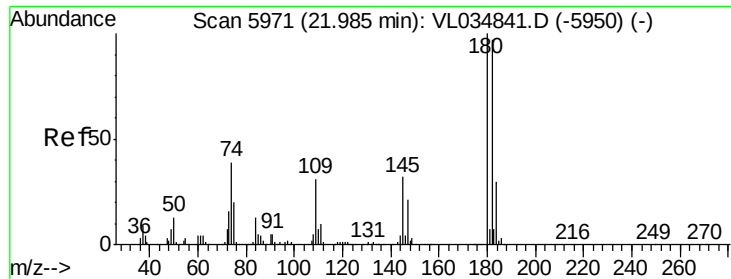
Delta R.T. 0.01 min

Lab File: VL034844.D

Acq: 9 Mar 2020 14:13

Tgt Ion	Ratio	Lower	Upper
142	100		
141	107.4	68.9	103.3
115	55.4	33.2	49.8





#81
 1,2,4-Trichlorobenzene
 Concen: 0.499 ppbv m
 RT: 21.98 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL034844.D
 Acq: 9 Mar 2020 14:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
180	100	62556		
182	0.0	76.6	115.0#	
184	0.0	25.0	37.4#	

Manual Integrations
 APPROVED

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 3/11/2020 3:26:02 PM

