

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034301.D
 Acq On : 16 Oct 2019 14:49
 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
 10/18/2019 3:03:59 PM

Quant Time: Oct 17 05:12:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 17 05:12:55 2019
 QLast Update : Wed Oct 16 16:52:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1161953	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2205808	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2220866	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1906583	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	124430m	0.725	ppbv
3) Chlorodifluoromethane	2.97	51	71471	0.525	ppbv 99
4) Chloromethane	3.12	50	41411	0.517	ppbv 100
5) Vinyl Chloride	3.24	62	38331	0.524	ppbv 89
6) Bromomethane	3.46	94	19710	0.577	ppbv # 79
7) Chloroethane	3.55	64	13718	0.536	ppbv # 86
8) Dichlorotetrafluoroethane	3.17	85	94238	0.622	ppbv 100
9) Propene	2.99	41	29743	0.442	ppbv 97
10) Heptane	8.17	43	70751	0.404	ppbv 97
11) Trichlorofluoromethane	3.94	101	103486	0.662	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	66413	0.650	ppbv 97
13) Ethanol	3.60	45	7986	0.491	ppbv # 58
14) Bromoethene	3.74	108	23117	0.553	ppbv # 92
15) Acetone	3.85	43	100940	0.648	ppbv 99
16) 1,3-Butadiene	3.31	39	32122	0.473	ppbv 89
17) tert-Butyl alcohol	4.32	59	64065m	0.649	ppbv
18) 1,1-Dichloroethene	4.29	96	27794	0.623	ppbv # 77
19) Isopropyl Alcohol	3.98	45	55404	0.579	ppbv # 98
20) Methylene Chloride	4.35	84	35305	0.786	ppbv 90
21) Allyl Chloride	4.41	41	43425	0.494	ppbv 90
22) trans-1,2-Dichloroethene	4.90	96	25820	0.579	ppbv 96
23) Vinyl Acetate	5.09	43	95034	0.414	ppbv # 97
24) 1,1-Dichloroethane	5.02	63	77755	0.503	ppbv 96
25) Ethyl Acetate	5.70	43	148534	0.504	ppbv 98
26) Hexane	5.71	57	57908	0.473	ppbv 86
27) Carbon Disulfide	4.56	76	52668	0.466	ppbv # 90
28) Methyl tert-Butyl Ether	5.06	73	85629m	0.471	ppbv
29) Chloroform	5.78	83	102681m	0.587	ppbv
30) Cyclohexane	7.16	84	43456m	0.491	ppbv
31) cis-1,2-Dichloroethene	5.57	61	56736m	0.454	ppbv
32) 1,1,1-Trichloroethane	6.54	97	86406	0.512	ppbv 96
34) 2-Butanone	5.27	43	91368	0.406	ppbv 96
35) Carbon Tetrachloride	7.05	117	89653m	0.489	ppbv
36) Benzene	6.93	78	102289	0.420	ppbv 97
37) 1,2-Dichloroethane	6.33	62	78770	0.455	ppbv 100
38) Trichloroethene	7.88	130	39983	0.459	ppbv # 76
39) 1,2-Dichloropropane	7.66	63	45481m	0.416	ppbv
40) 1,4-Dioxane	7.92	88	19014m	0.537	ppbv
41) Tetrahydrofuran	6.10	42	47814m	0.377	ppbv
42) Bromodichloromethane	7.83	83	94012	0.452	ppbv # 83
43) Methyl Methacrylate	8.07	69	37713m	0.375	ppbv

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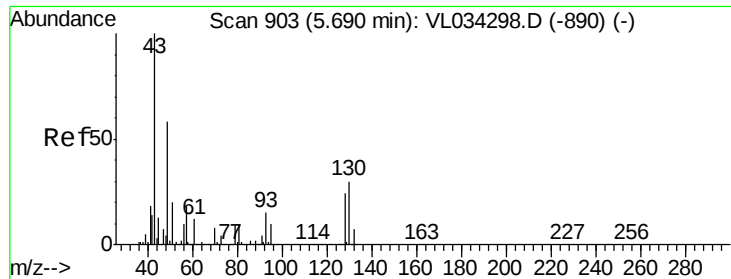
Manual Integrations
 APPROVED

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Quant Time: Oct 17 05:12:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 05:12:55 2019
 QLast Update : Wed Oct 16 16:52:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	197169m	0.420	ppbv	
45) t-1,3-Dichloropropene	9.33	75	42055	0.353	ppbv #	86
46) cis-1,3-Dichloropropene	8.75	75	49150	0.343	ppbv #	83
47) 1,1,2-Trichloroethane	9.53	97	47712m	0.485	ppbv	
48) Dibromochloromethane	10.36	129	67593m	0.434	ppbv	
49) Bromoform	13.10	173	54544	0.433	ppbv	98
50) 4-Methyl-2-Pentanone	8.80	43	115830	0.353	ppbv	97
51) 2-Hexanone	10.21	43	91281m	0.332	ppbv	
52) Tetrachloroethene	11.28	164	40664m	0.505	ppbv	
53) Toluene	9.86	91	103688	0.389	ppbv	99
54) 1,2-Dibromoethane	10.67	107	68276	0.467	ppbv #	80
56) 1,1,1,2-Tetrachloroethane	12.19	131	53387m	0.539	ppbv	
57) Chlorobenzene	12.22	112	101584	0.525	ppbv #	88
58) Ethyl Benzene	12.78	91	147767	0.412	ppbv #	88
59) m/p-Xylene	13.07	91	281993m	0.950	ppbv	
60) o-Xylene	13.76	91	136768	0.461	ppbv	93
61) Styrene	13.60	104	82269	0.387	ppbv	98
62) Isopropylbenzene	14.74	105	179586	0.467	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.75	83	105922	0.435	ppbv	98
64) n-propylbenzene	15.64	120	43496m	0.447	ppbv	
65) tert-Butylbenzene	16.82	119	154864m	0.461	ppbv	
66) Benzyl Chloride	17.07	91	47377m	0.399	ppbv	
67) sec-Butylbenzene	17.38	105	221260	0.461	ppbv	95
69) p-Isopropyltoluene	17.74	119	175122m	0.451	ppbv	
70) n-Butylbenzene	18.63	91	190255	0.420	ppbv	96
71) 2-Chlorotoluene	15.53	91	132959	0.424	ppbv	100
72) 4-Ethyltoluene	15.91	105	141917m	0.423	ppbv	
73) 1,3,5-Trimethylbenzene	16.07	105	147260	0.455	ppbv	91
74) 1,2,4-Trimethylbenzene	16.83	105	151291	0.440	ppbv	89
75) 1,3-Dichlorobenzene	17.08	146	101114m	0.548	ppbv	
76) 1,4-Dichlorobenzene	17.22	146	93839m	0.497	ppbv	
77) 1,2-Dichlorobenzene	17.90	146	97474m	0.522	ppbv	
78) Hexachloro-1,3-Butadiene	23.46	225	80931m	0.654	ppbv	
79) Naphthalene	22.32	128	89916m	0.297	ppbv	
80) Naphthalene, 2-methyl-	25.06	142	17055	0.121	ppbv	97
81) 1,2,4-Trichlorobenzene	22.04	180	66659m	0.397	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1161953

Ion Ratio Lower Upper

49 100

128 41.8 20.6 61.8

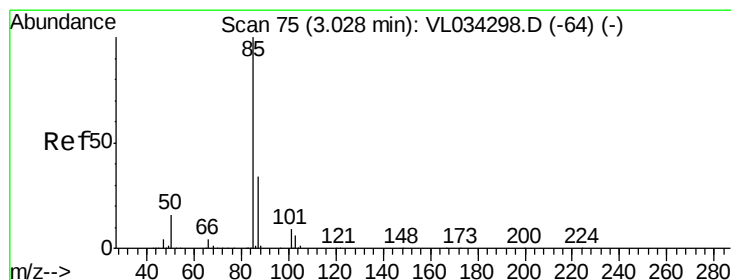
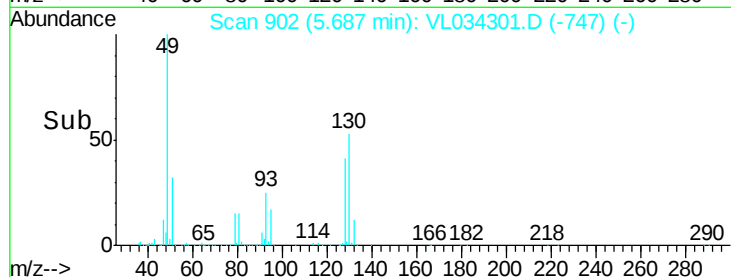
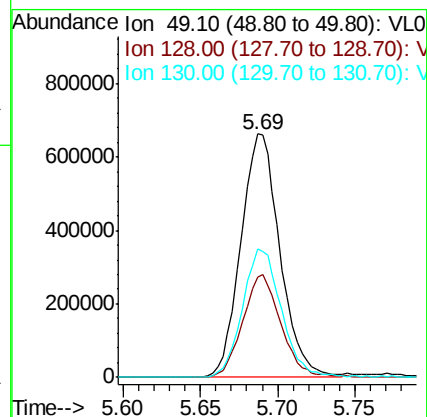
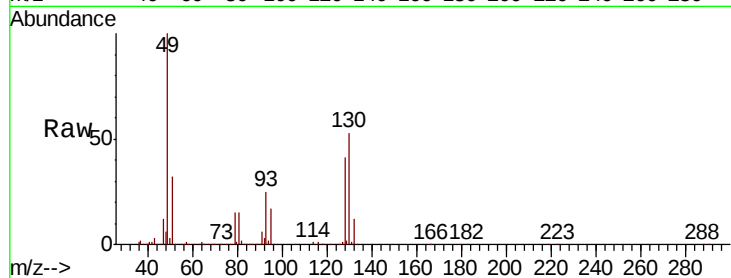
130 53.0 26.2 78.5

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#2

Dichlorodifluoromethane

Concen: 0.725 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL034301.D

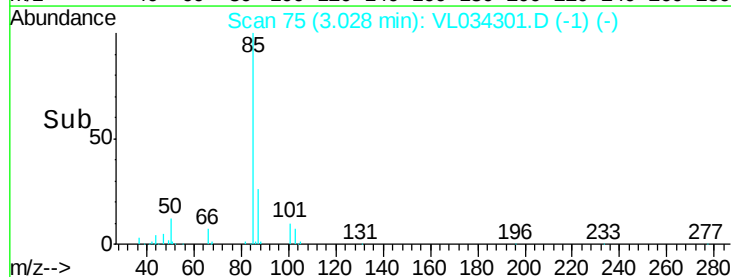
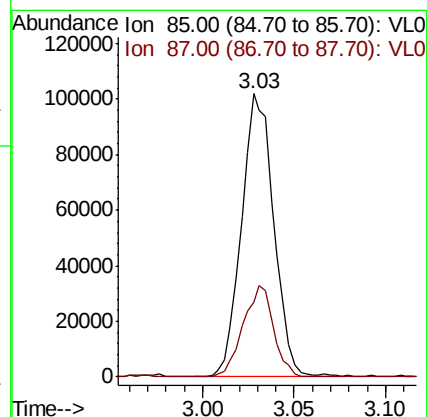
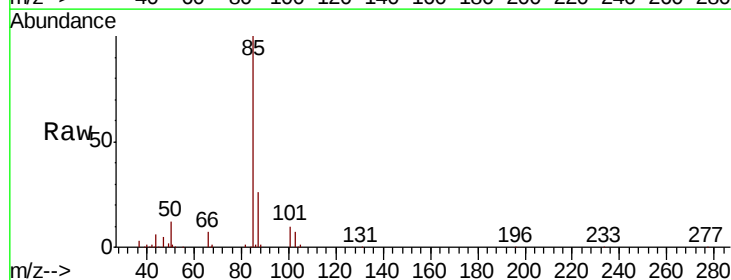
Acq: 16 Oct 2019 14:49

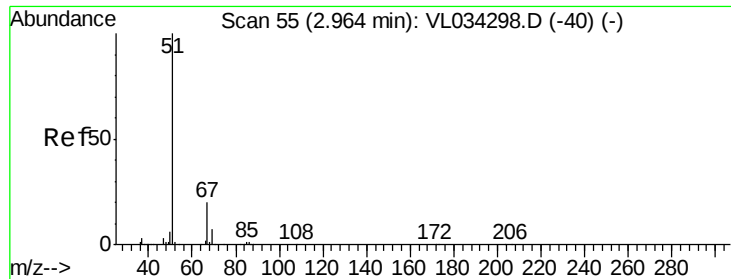
Tgt Ion: 85 Resp: 124430

Ion Ratio Lower Upper

85 100

87 26.2 27.0 40.6#





#3

Chlorodifluoromethane

Concen: 0.525 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 71471

Ion Ratio Lower Upper

51 100

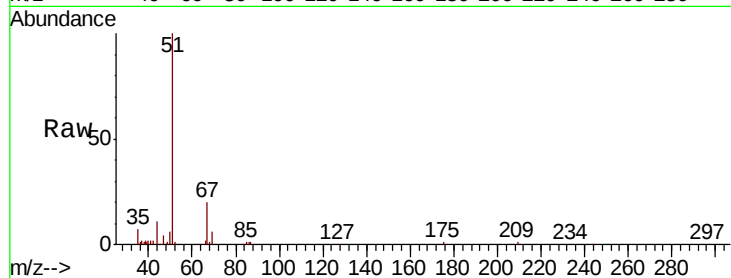
67 20.3 15.8 23.8

Manual Integrations

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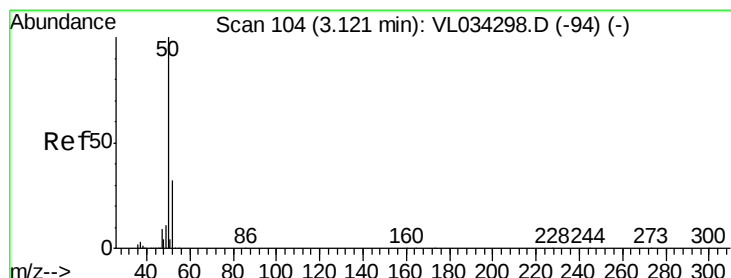
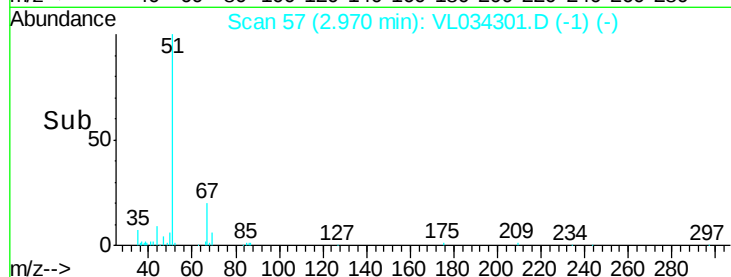
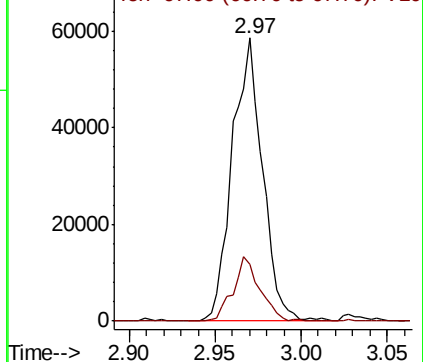
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.517 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.00 min

Lab File: VL034301.D

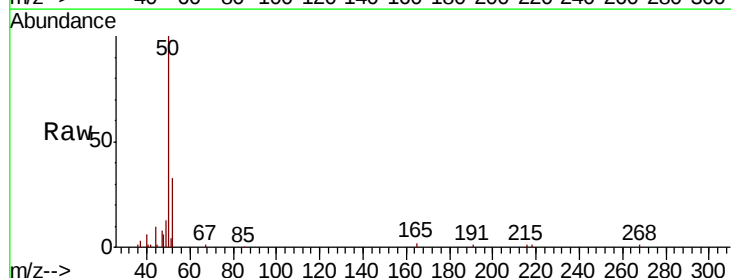
Acq: 16 Oct 2019 14:49

Tgt Ion: 50 Resp: 41411

Ion Ratio Lower Upper

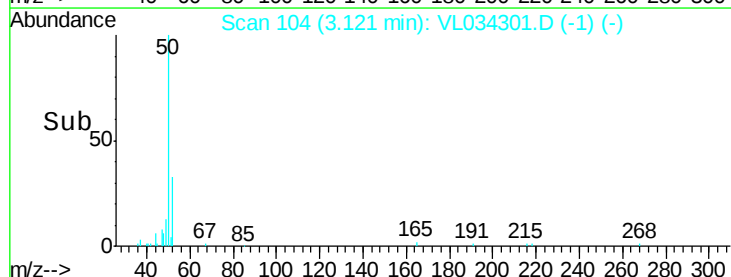
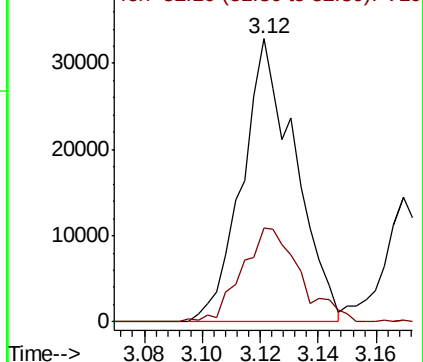
50 100

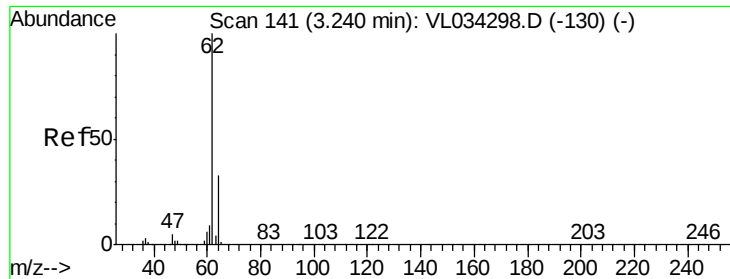
52 32.1 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.524 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 38331

Ion Ratio Lower Upper

62 100

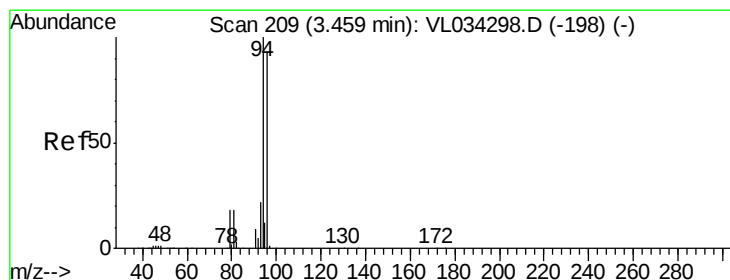
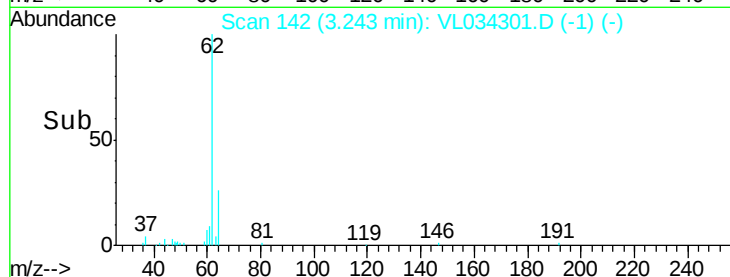
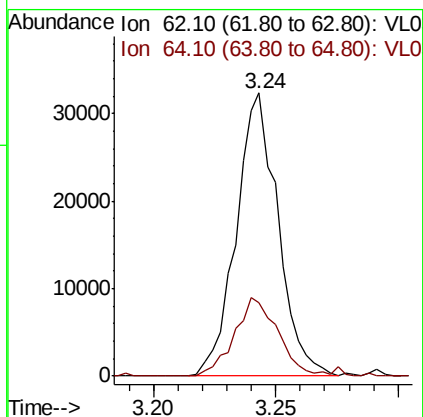
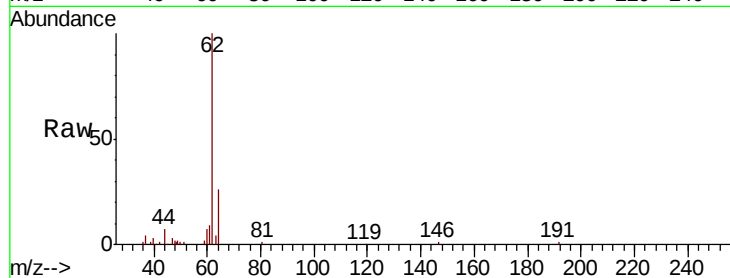
64 26.1 26.0 39.0

Manual Integrations

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#6

Bromomethane

Concen: 0.577 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034301.D

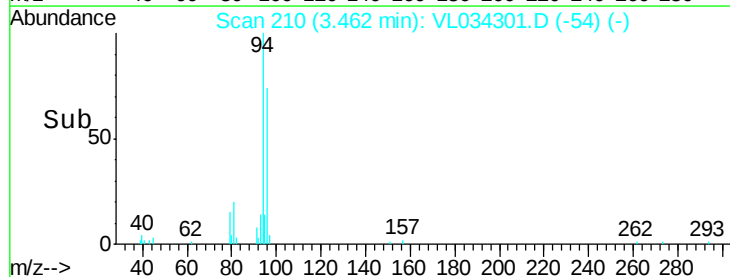
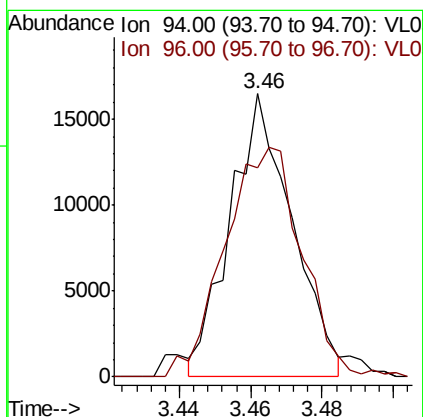
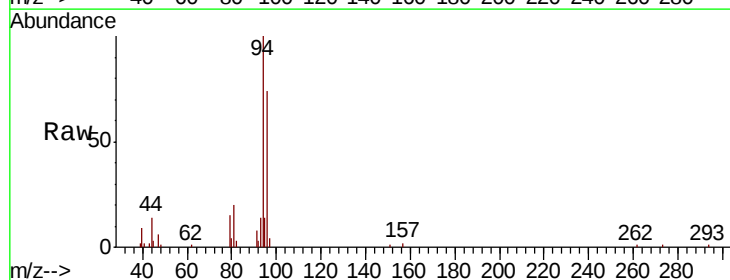
Acq: 16 Oct 2019 14:49

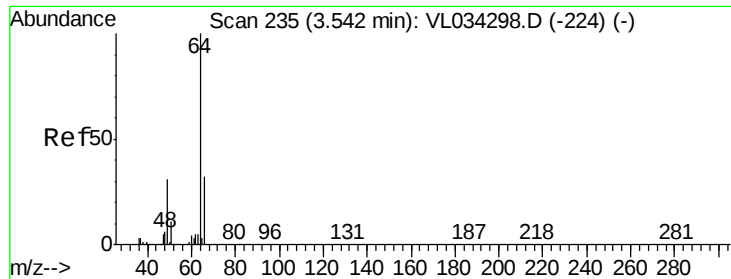
Tgt Ion: 94 Resp: 19710

Ion Ratio Lower Upper

94 100

96 73.5 74.6 112.0#





#7

Chloroethane

Concen: 0.536 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 13718

Ion Ratio Lower Upper

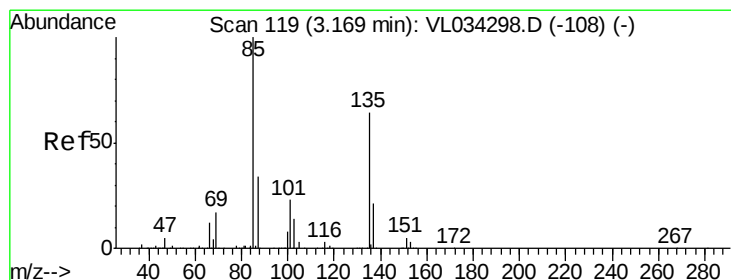
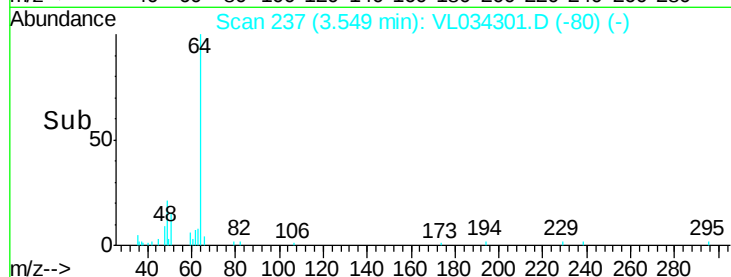
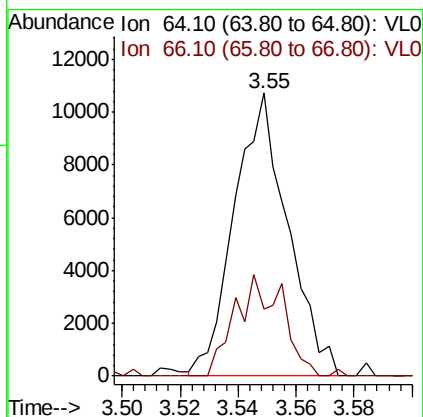
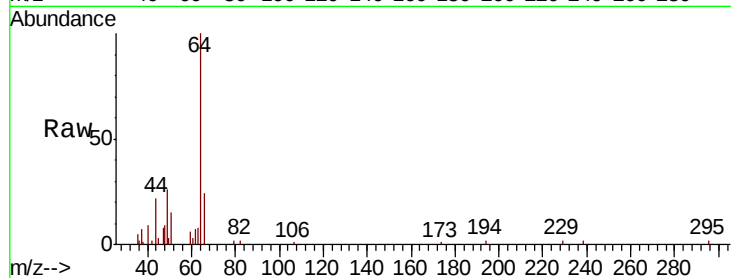
64 100

66 23.8 25.4 38.0#

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 0.622 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL034301.D

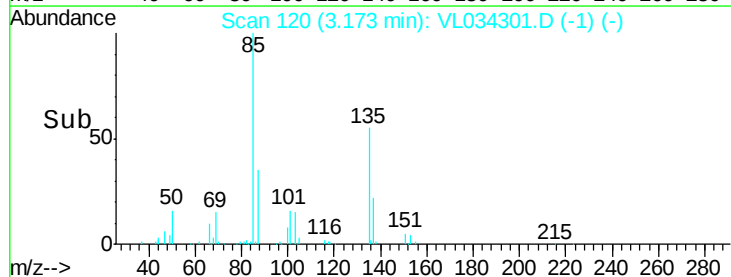
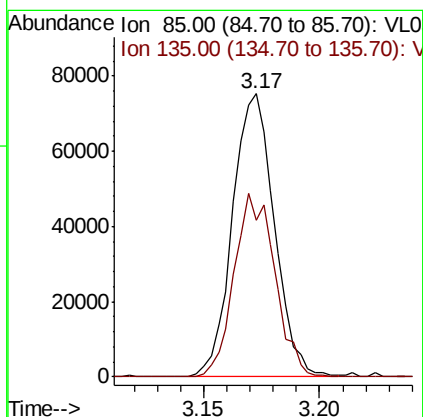
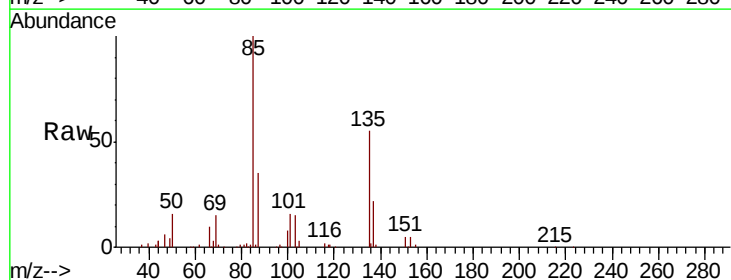
Acq: 16 Oct 2019 14:49

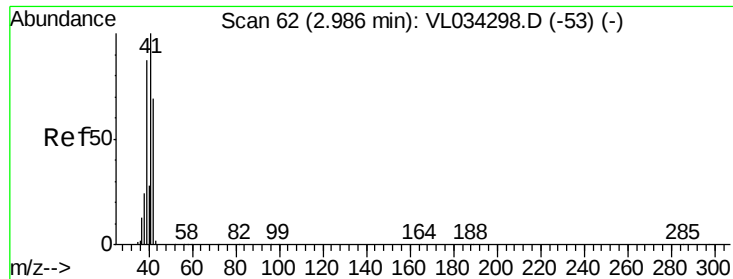
Tgt Ion: 85 Resp: 94238

Ion Ratio Lower Upper

85 100

135 63.1 50.2 75.2





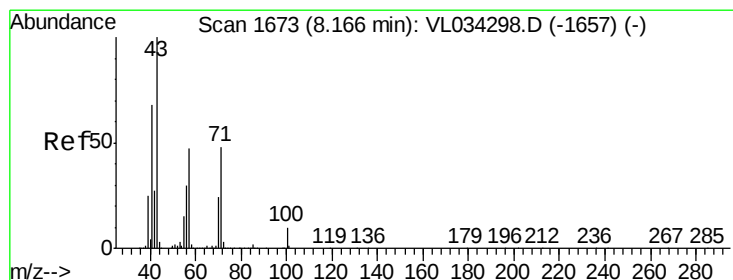
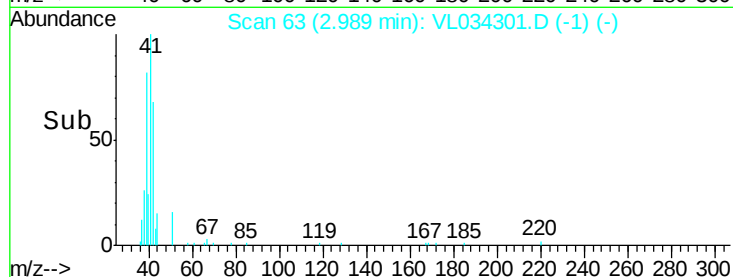
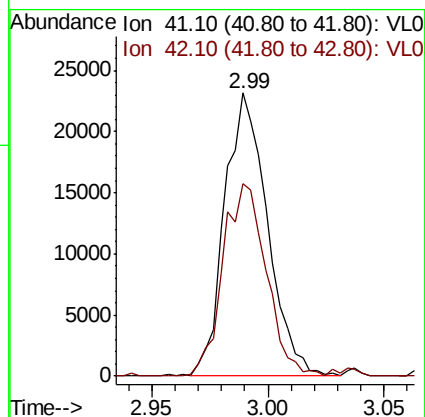
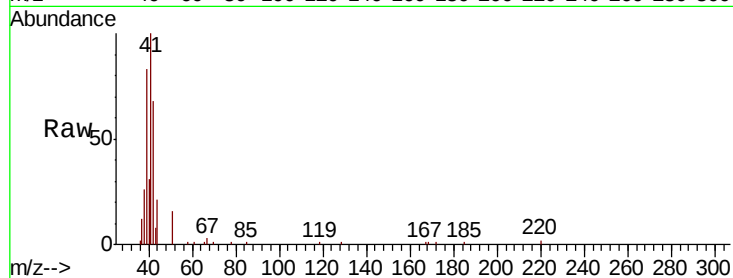
#9
 Propene
 Concen: 0.442 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 41 Resp: 29743
 Ion Ratio Lower Upper
 41 100
 42 70.1 53.9 80.9

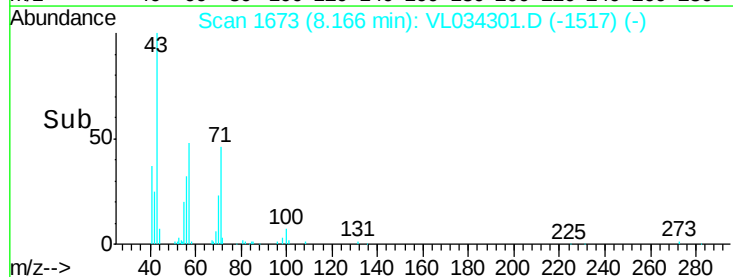
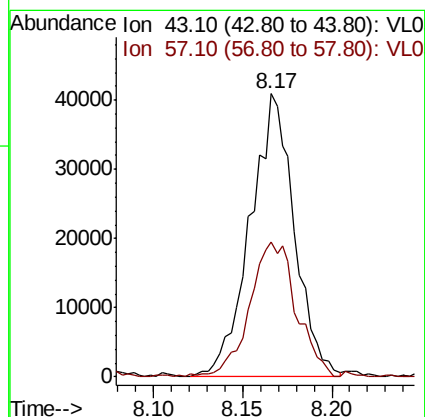
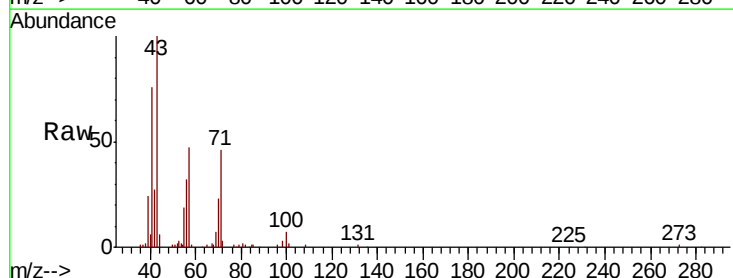
Manual Integrations
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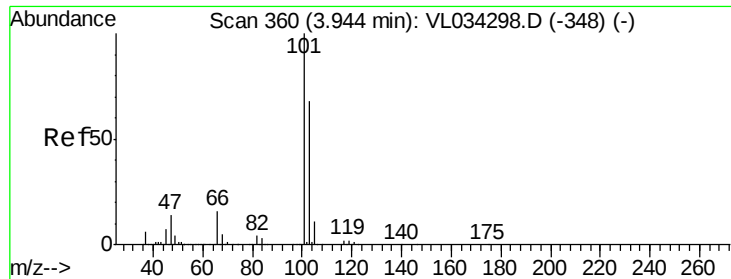
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#10
 Heptane
 Concen: 0.404 ppbv
 RT: 8.17 min Scan# 1673
 Delta R.T. -0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion: 43 Resp: 70751
 Ion Ratio Lower Upper
 43 100
 57 51.3 39.5 59.3





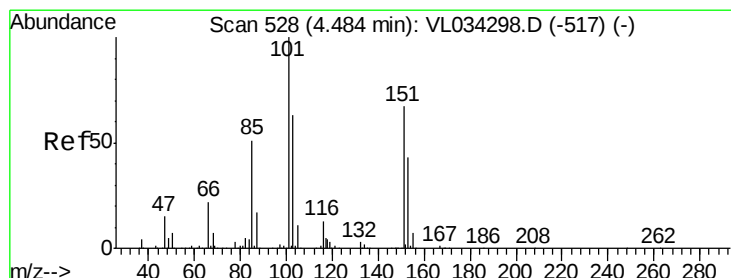
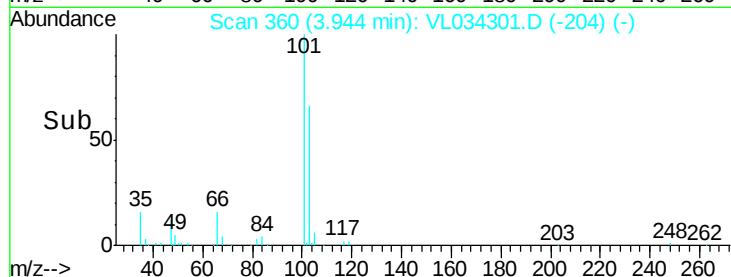
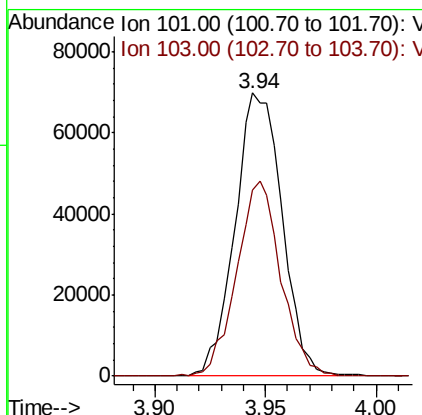
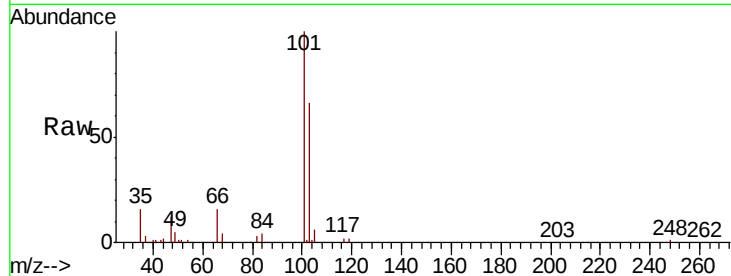
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 Trichlorofluoromethane
 Concen: 0.662 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	54.5	81.7

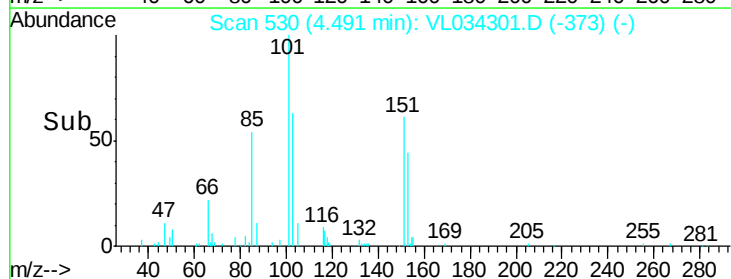
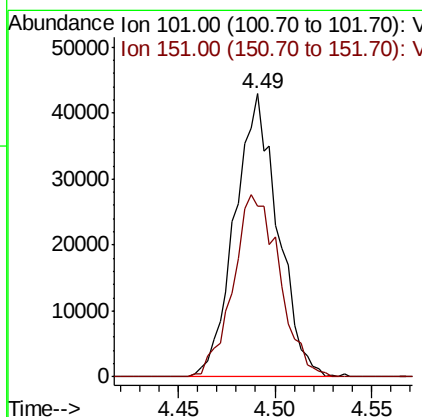
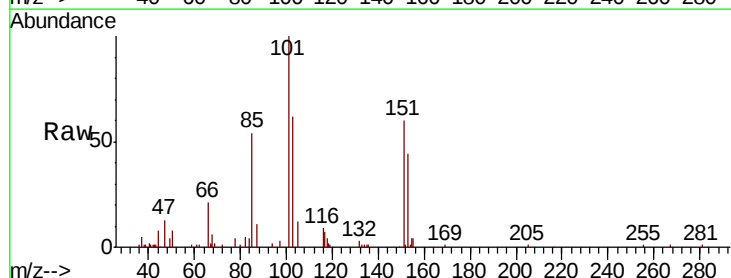
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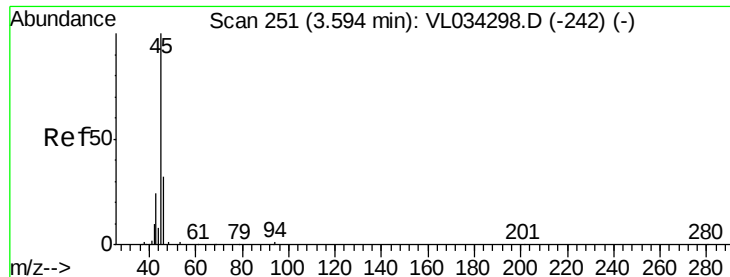
MMDadoda
 10/18/2019 3:03:59 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.650 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. 0.01 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
101	100		
151	69.0	57.4	86.2





#13

Ethanol

Concen: 0.491 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 7986

Ion Ratio Lower Upper

45 100

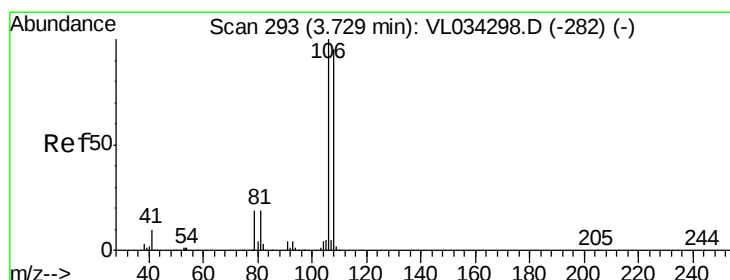
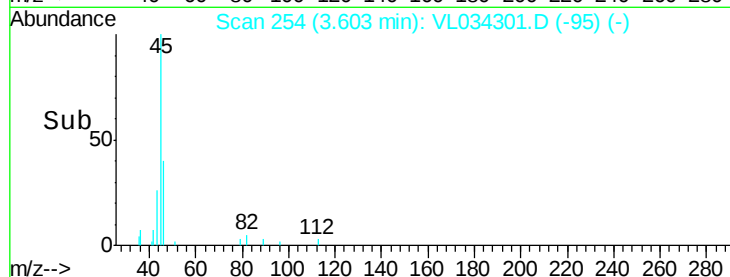
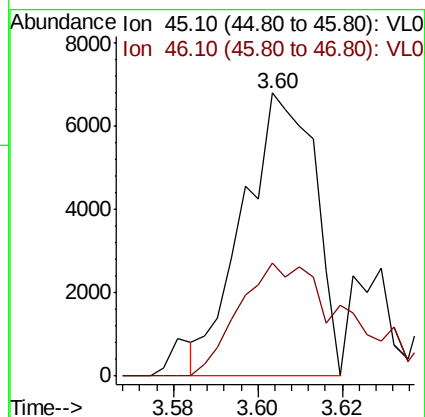
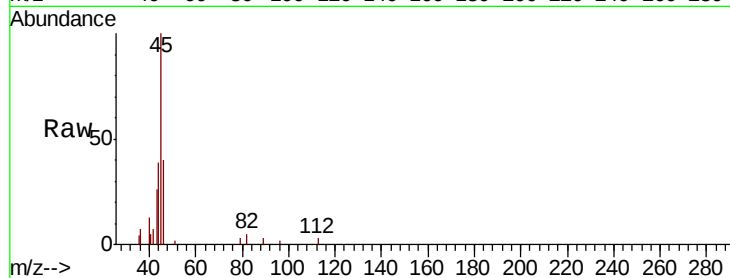
46 65.3 15.8 63.2#

Manual Integrations

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#14

Bromoethene

Concen: 0.553 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

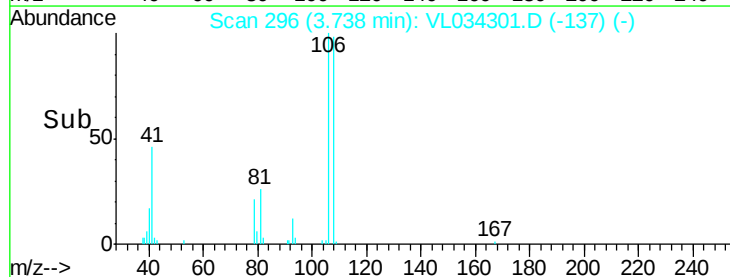
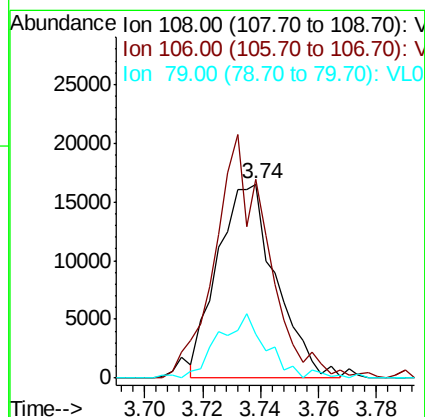
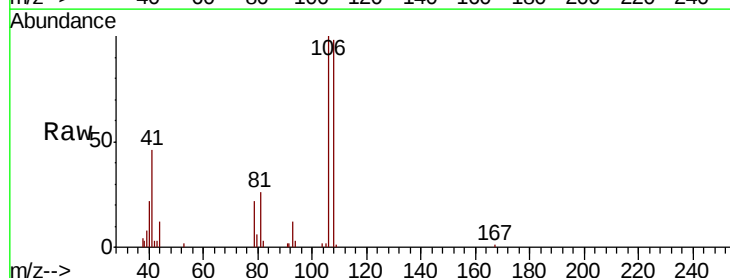
Tgt Ion: 108 Resp: 23117

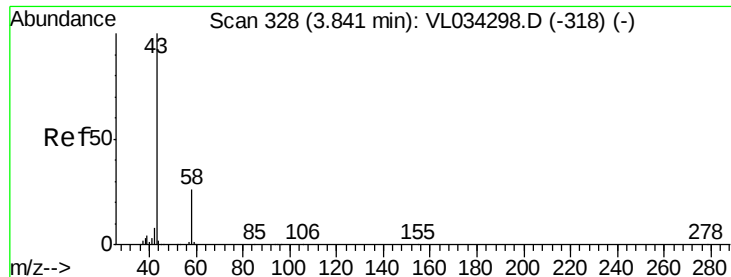
Ion Ratio Lower Upper

108 100

106 112.7 84.8 127.2

79 28.3 17.0 25.4#





#15

Acetone

Concen: 0.648 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 100940

Ion Ratio Lower Upper

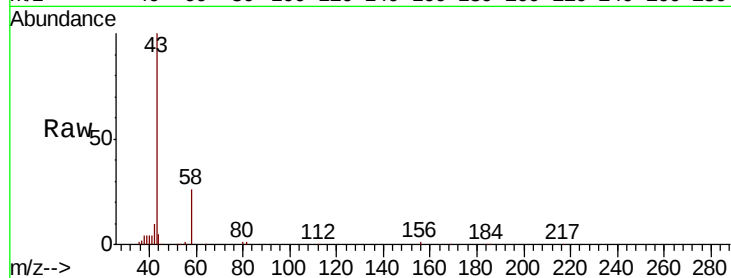
43 100

58 26.0 20.4 30.6

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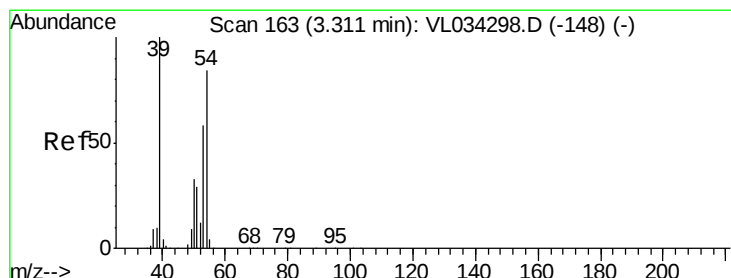
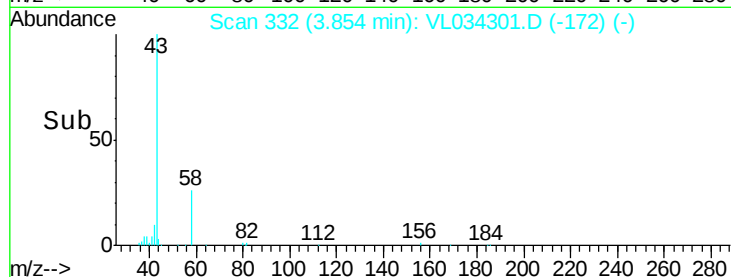
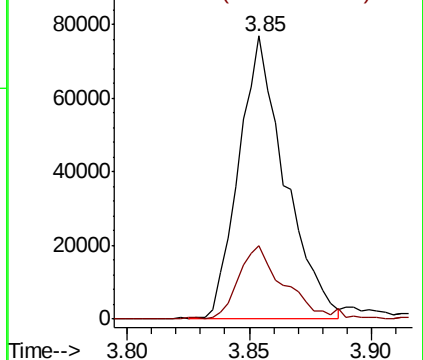
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.473 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.00 min

Lab File: VL034301.D

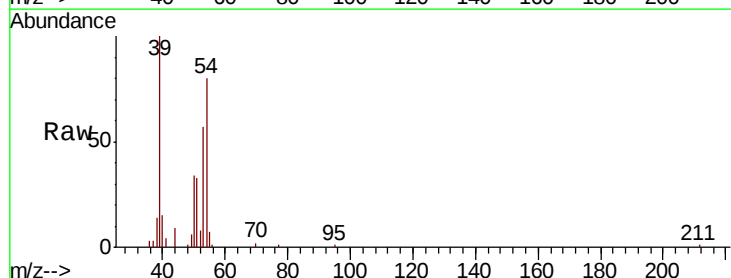
Acq: 16 Oct 2019 14:49

Tgt Ion: 39 Resp: 32122

Ion Ratio Lower Upper

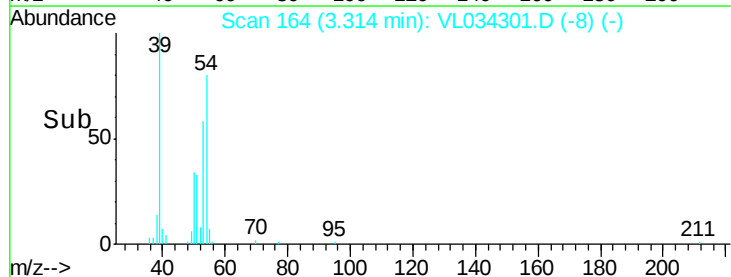
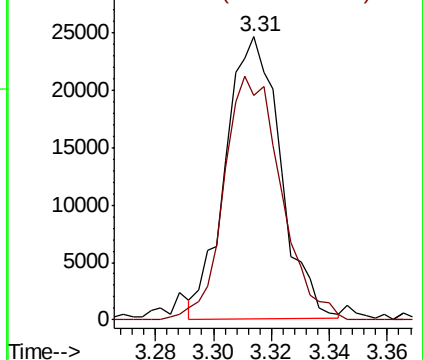
39 100

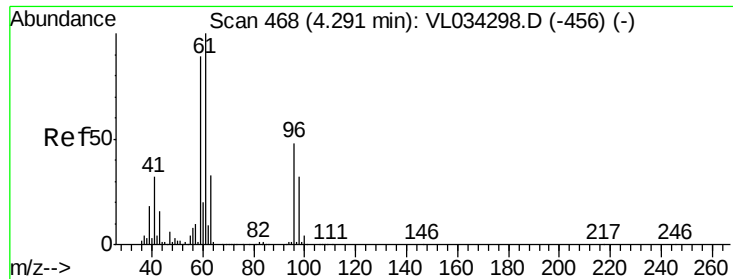
54 89.8 63.9 95.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

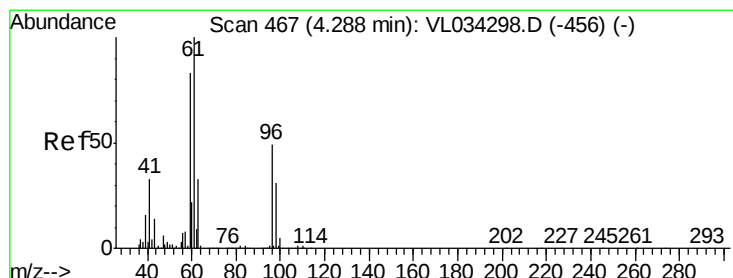
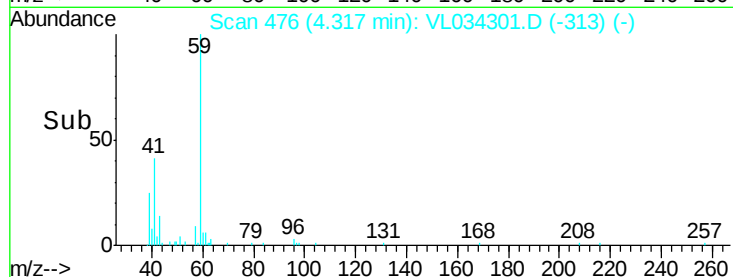
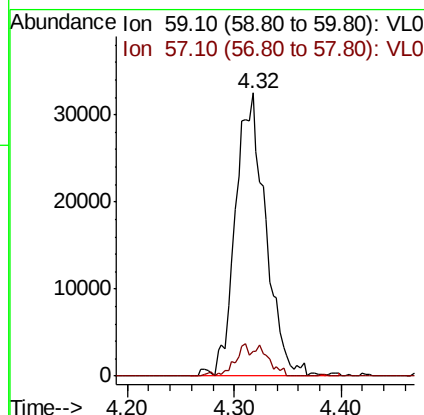
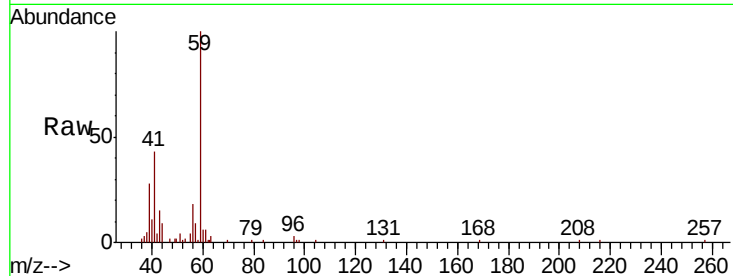
tert-Butyl alcohol
 Concen: 0.649 ppbv m
 RT: 4.32 min Scan# 476
 Delta R.T. 0.03 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

Manual Integrations
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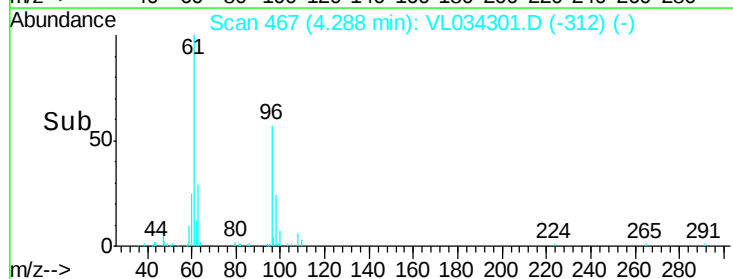
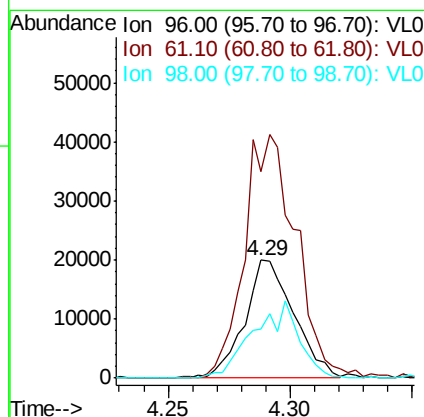
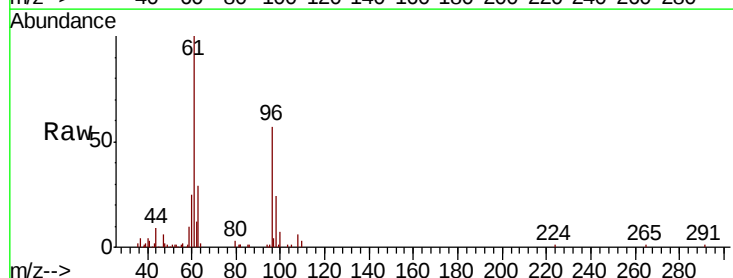
MMDadoda
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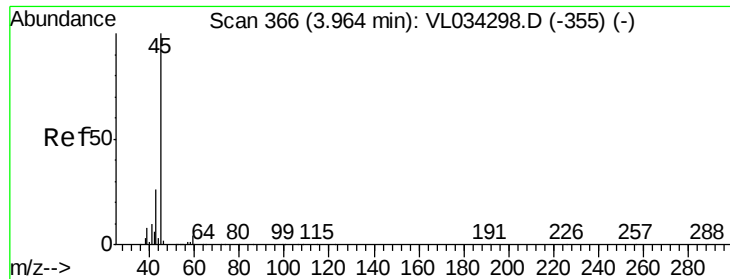


#18

1,1-Dichloroethene
 Concen: 0.623 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.2	164.5	246.7
98	41.6	51.7	77.5#





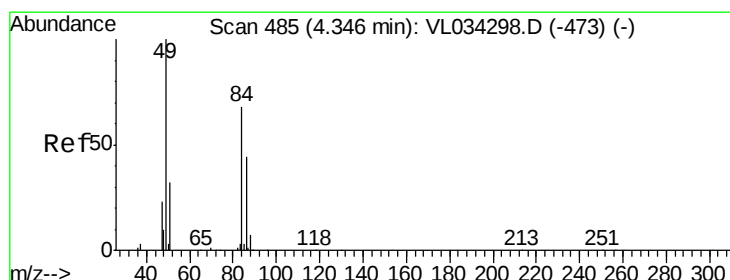
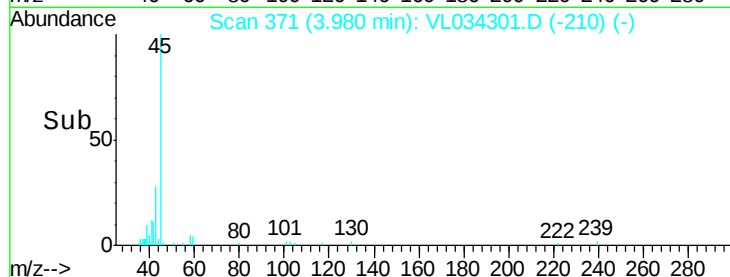
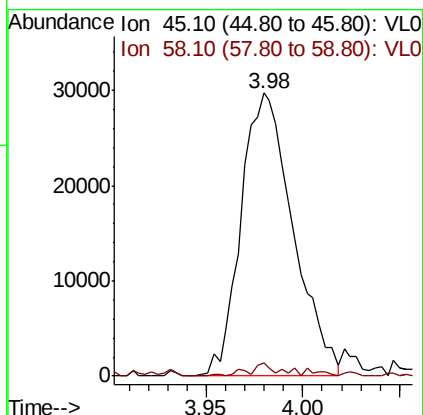
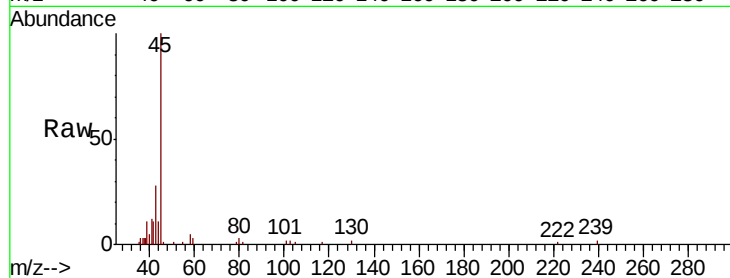
#19
Isopropyl Alcohol
Concen: 0.579 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.02 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.4	1.4	2.2#

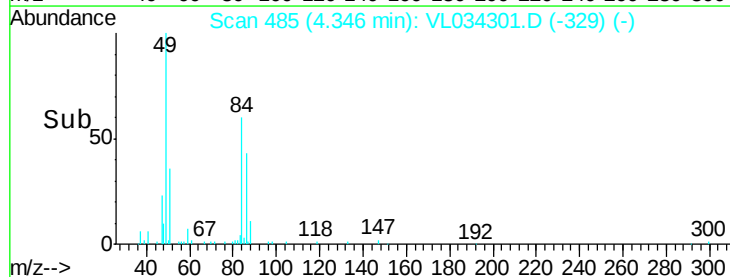
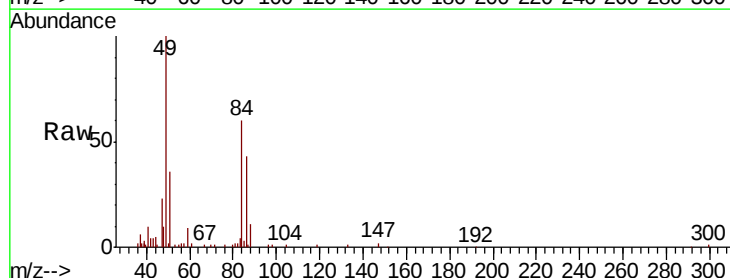
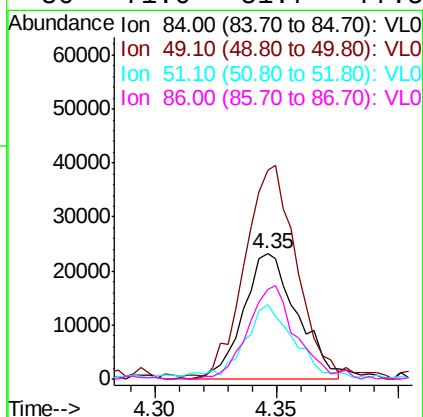
Manual Integrations
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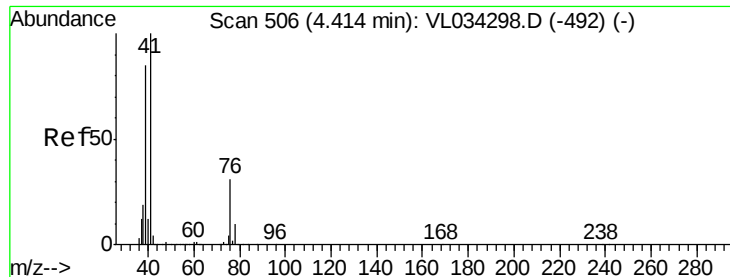
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#20
Methylene Chloride
Concen: 0.786 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
84	100		
49	161.0	118.5	177.7
51	55.8	38.8	58.2
86	71.6	51.7	77.5





#21

Allvl Chloride

Concen: 0.494 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

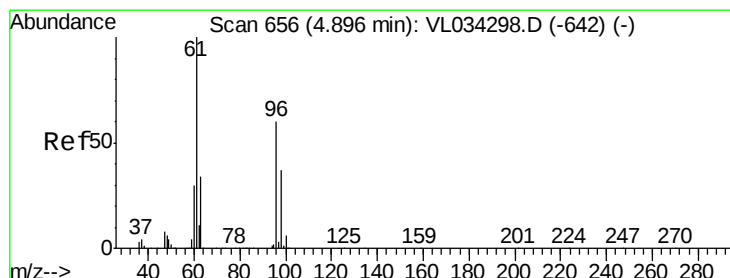
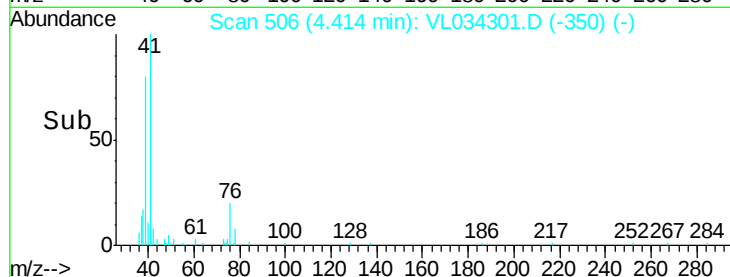
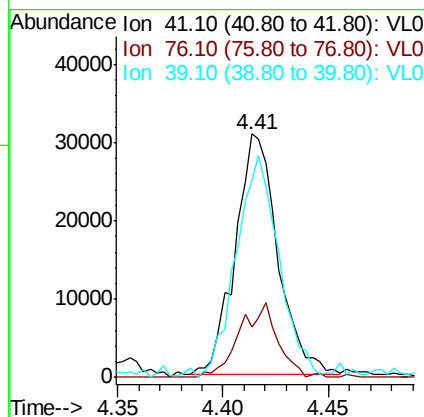
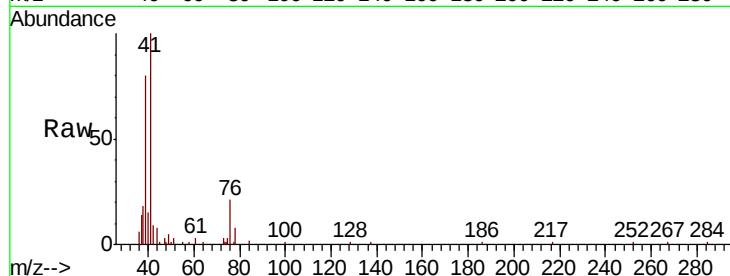
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	43425
Ion	Ratio	Lower	Upper
41	100		
76	27.9	22.8	34.2
39	94.1	66.0	99.0

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 0.579 ppbv

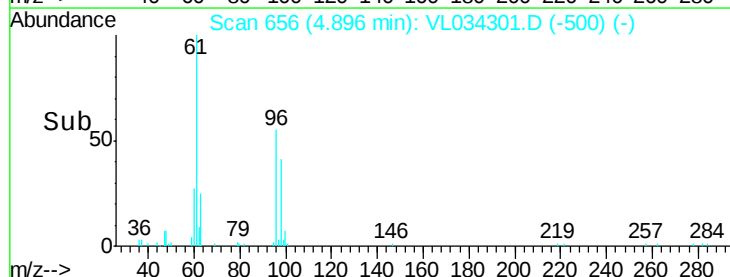
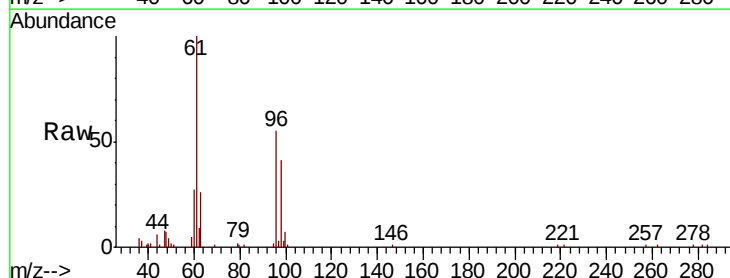
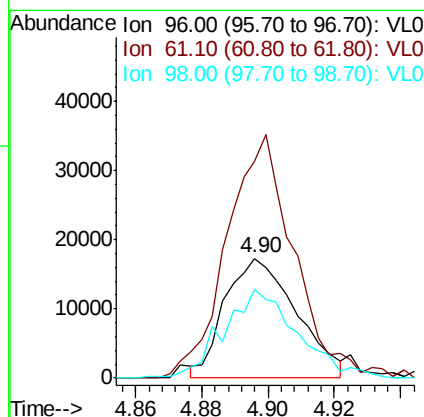
RT: 4.90 min Scan# 656

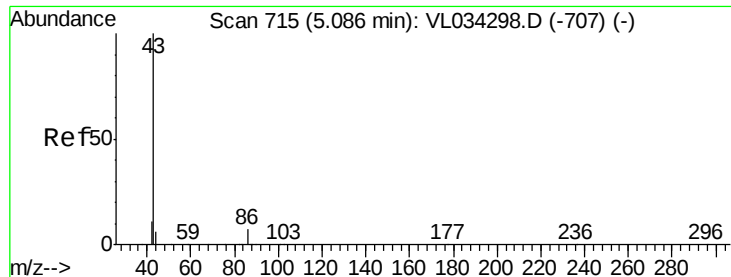
Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion:	96	Resp:	25820
Ion	Ratio	Lower	Upper
96	100		
61	167.5	133.8	200.6
98	71.7	49.4	74.0





#23

Vinyl Acetate

Concen: 0.414 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

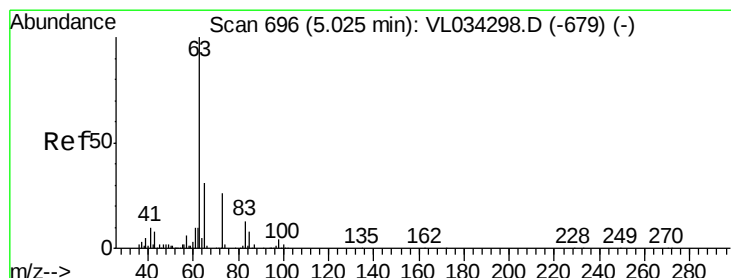
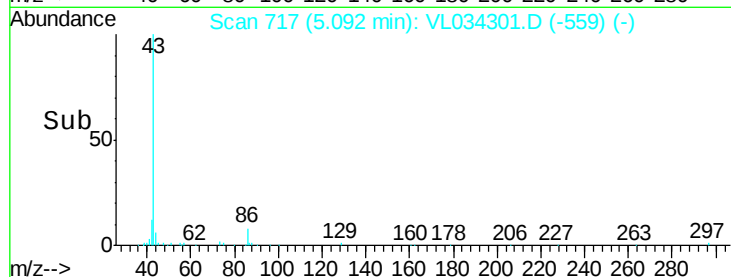
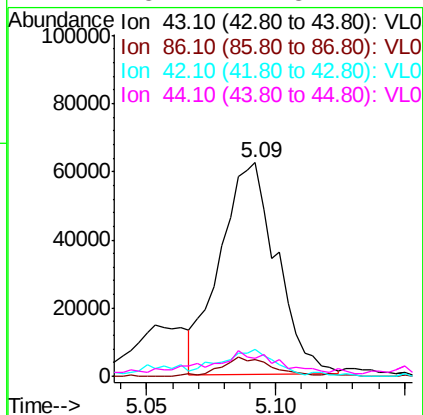
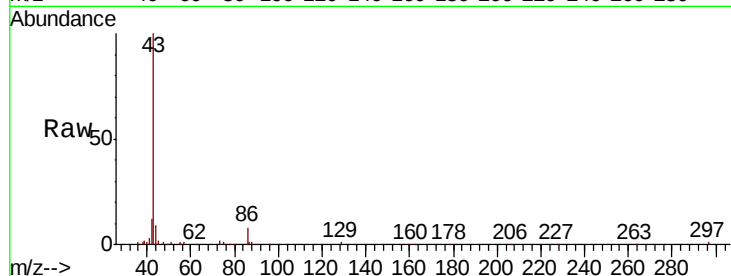
ClientSampleId :

VSTDIC0.5

Tot Ion	43	Resp	95034
Ion Ratio	Lower	Upper	
43	100		
86	7.8	5.0	7.4#
42	12.0	8.6	13.0
44	5.4	4.8	7.2

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#24

1,1-Dichloroethane

Concen: 0.503 ppbv

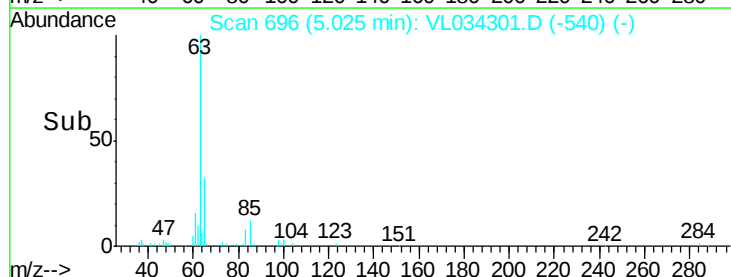
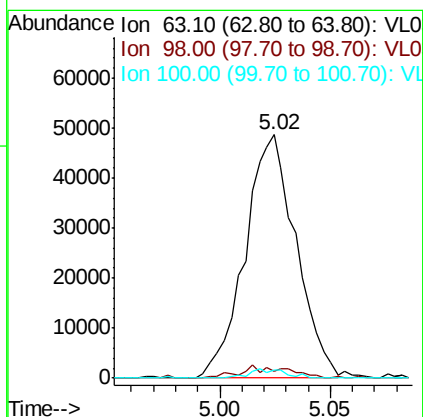
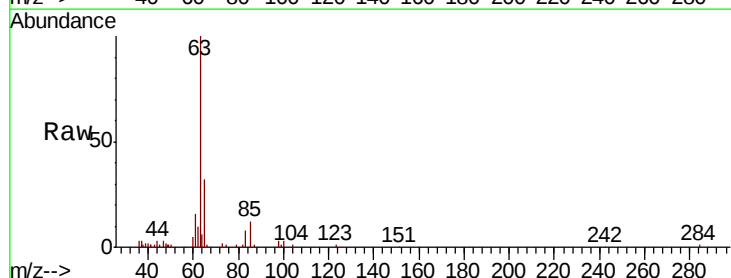
RT: 5.02 min Scan# 696

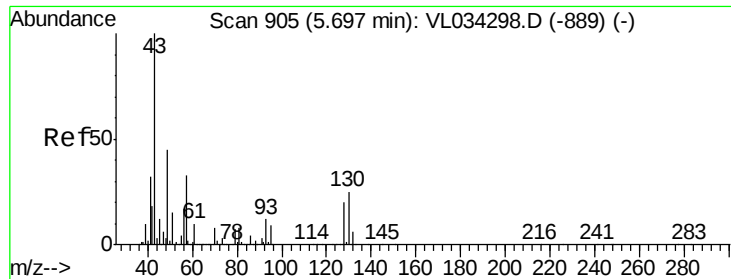
Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion	63	Resp	77755
Ion Ratio	Lower	Upper	
63	100		
98	2.6	2.0	6.0
100	3.2	1.1	3.5





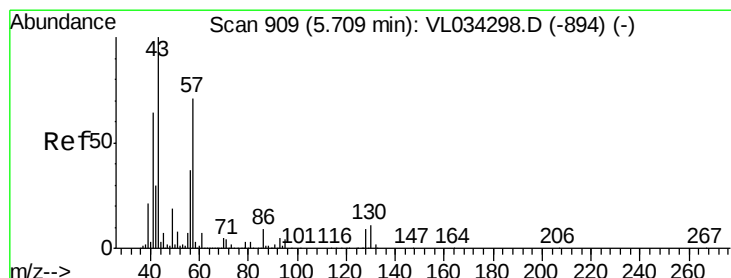
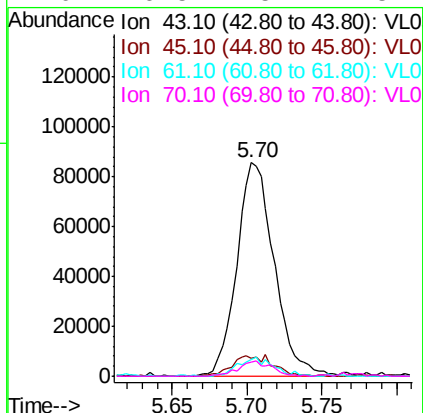
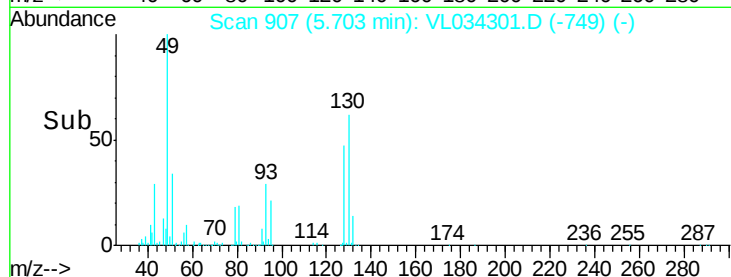
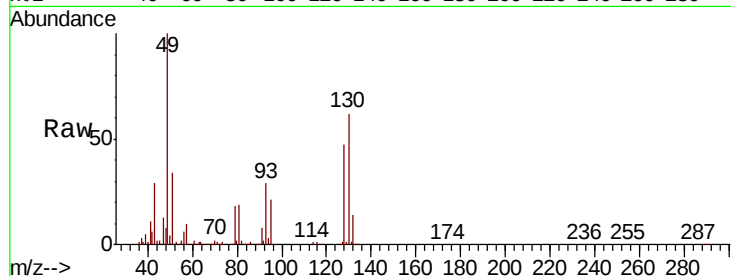
#25
Ethyl Acetate
Concen: 0.504 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.8	8.3	12.5		
61	8.7	7.7	11.5		
70	6.5	5.4	8.2		

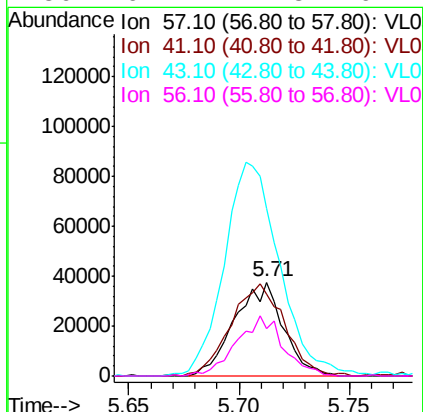
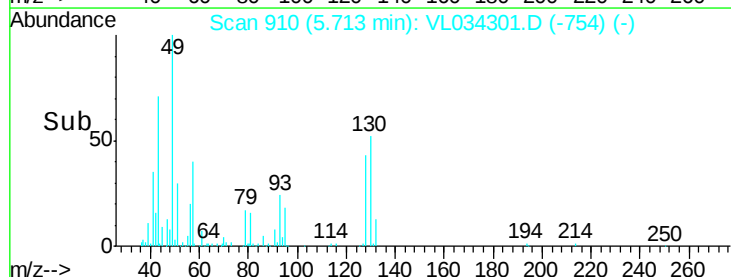
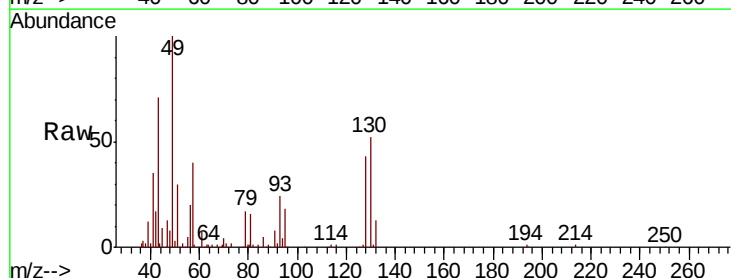
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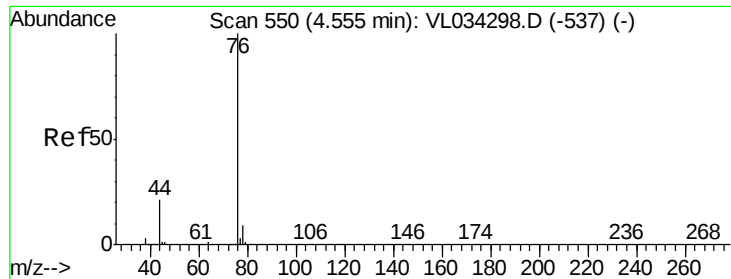
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#26
Hexane
Concen: 0.473 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	110.2	76.5	114.7		
43	261.0	188.5	282.7		
56	61.2	42.8	64.2		





#27

Carbon Disulfide

Concen: 0.466 ppbv

RT: 4.56 min Scan# 550

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

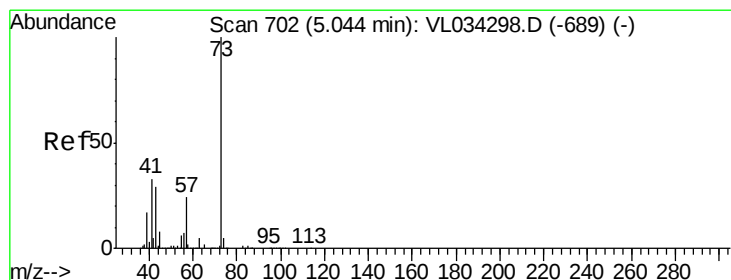
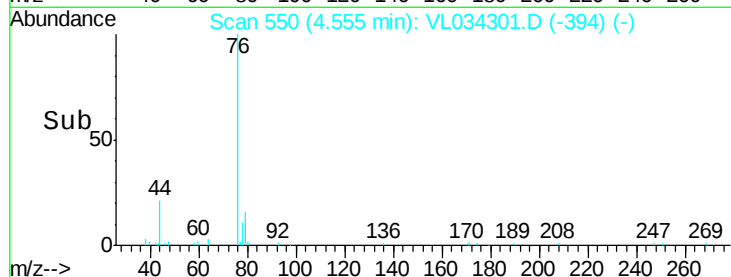
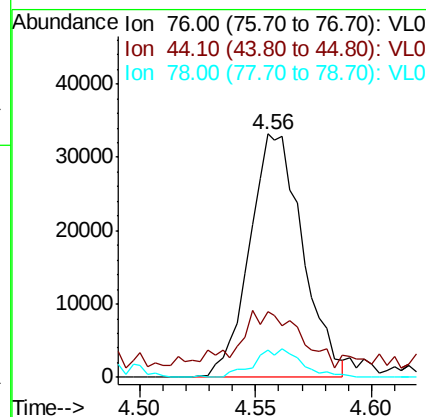
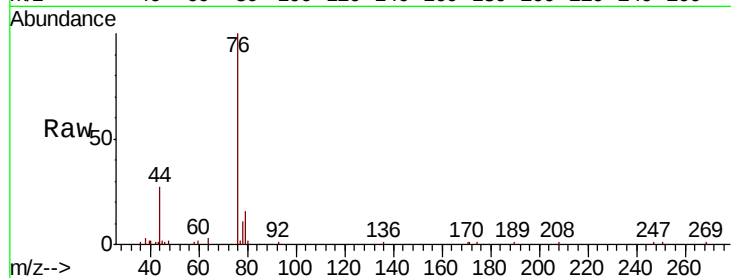
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	52668
Ion Ratio	Lower	Upper	
76	100		
44	27.7	17.3	25.9#
78	10.6	7.8	11.6

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.471 ppbv m

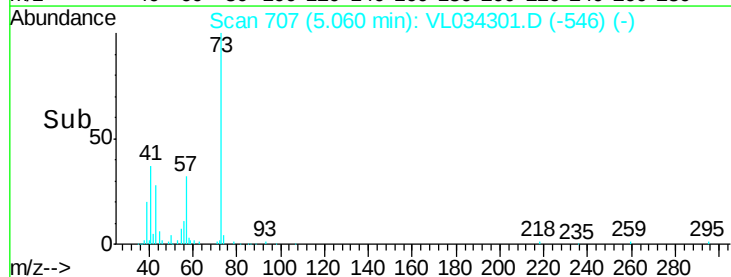
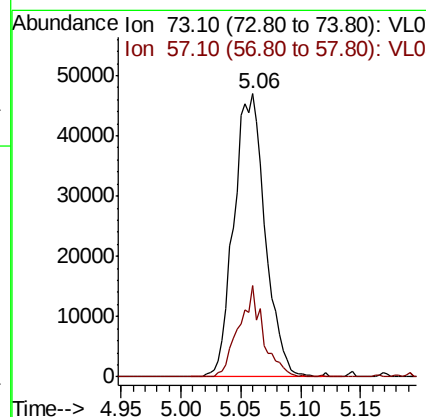
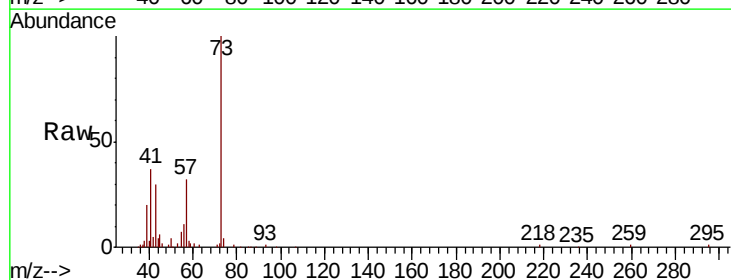
RT: 5.06 min Scan# 707

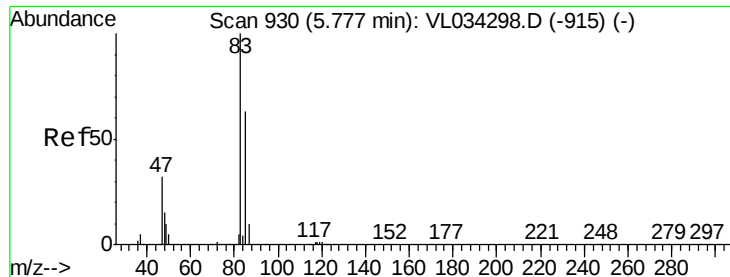
Delta R.T. 0.02 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion:	73	Resp:	85629
Ion Ratio	Lower	Upper	
73	100		
57	0.0	19.2	28.8#





#29

Chloroform

Concen: 0.587 ppbv m

RT: 5.78 min Scan# 930

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 102681

Ion Ratio Lower Upper

83 100

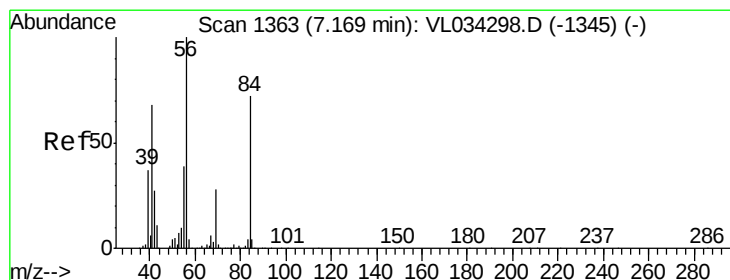
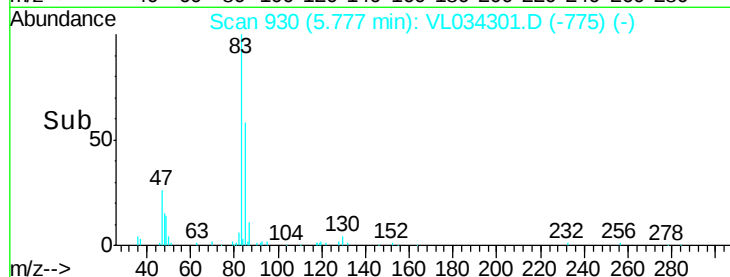
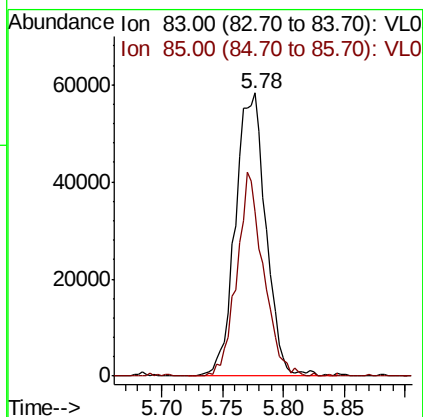
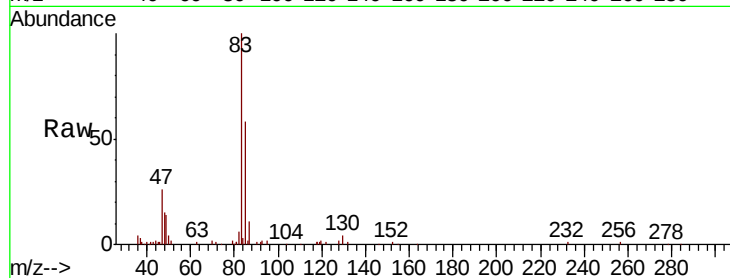
85 58.1 50.5 75.7

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#30

Cyclohexane

Concen: 0.491 ppbv m

RT: 7.16 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

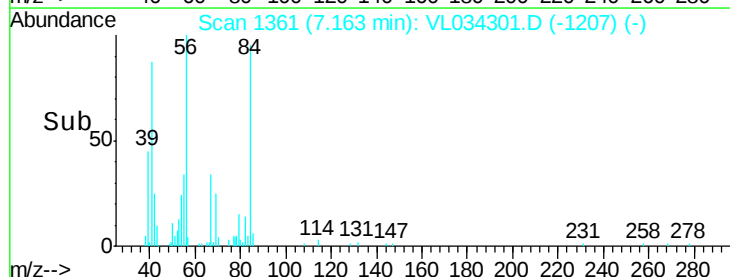
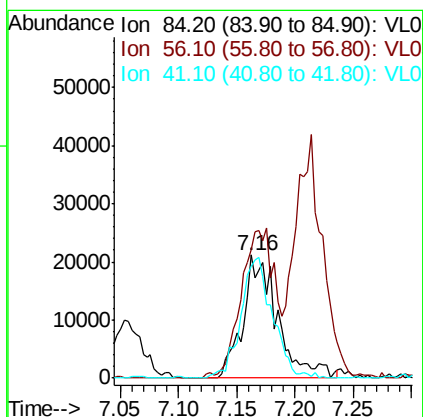
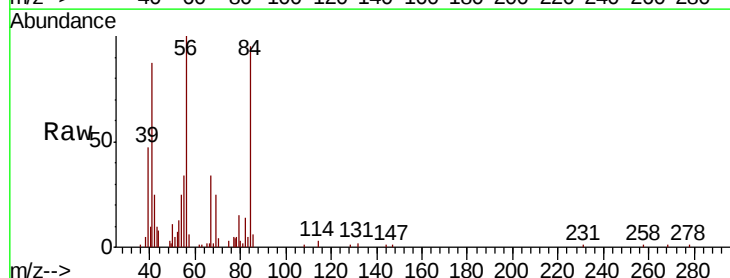
Tgt Ion: 84 Resp: 43456

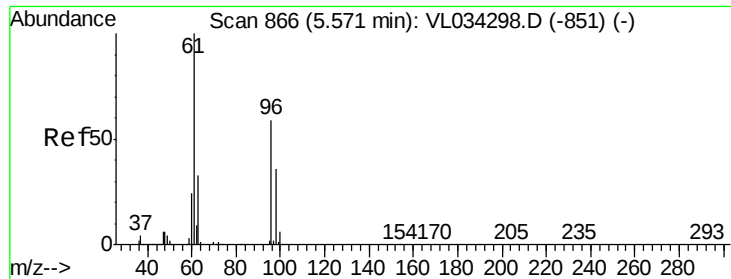
Ion Ratio Lower Upper

84 100

56 0.0 119.4 179.0#

41 0.0 78.7 118.1#





#31

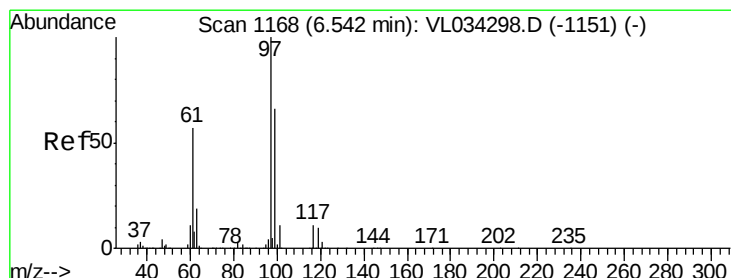
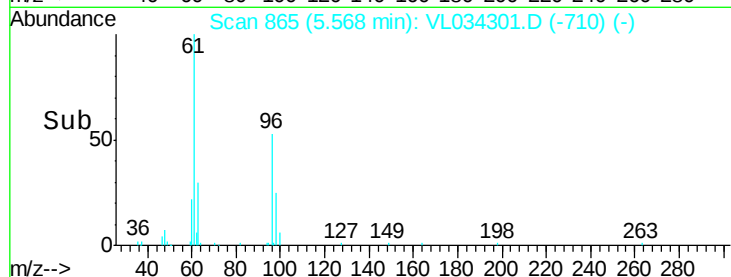
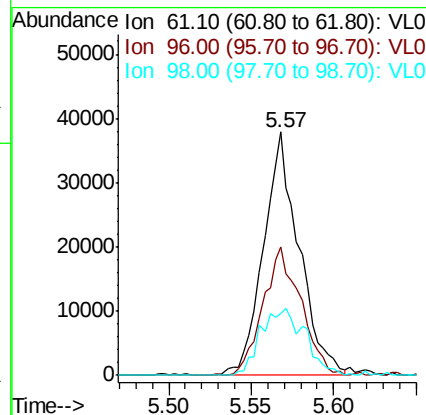
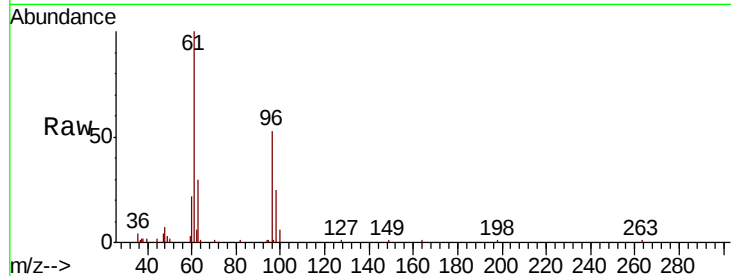
cis-1,2-Dichloroethene
Concen: 0.454 ppbv m
RT: 5.57 min Scan# 865
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	52.8	47.5	71.3
98	25.3	28.8	43.2

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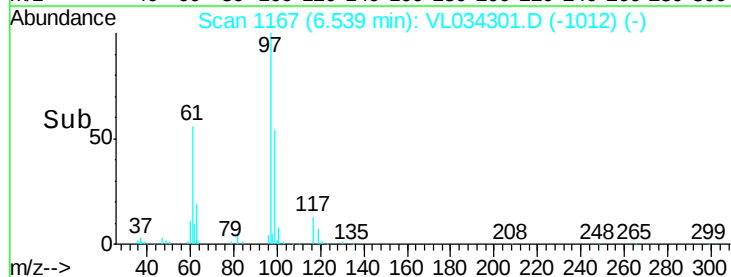
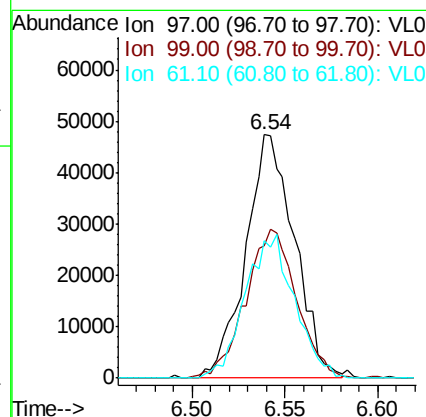
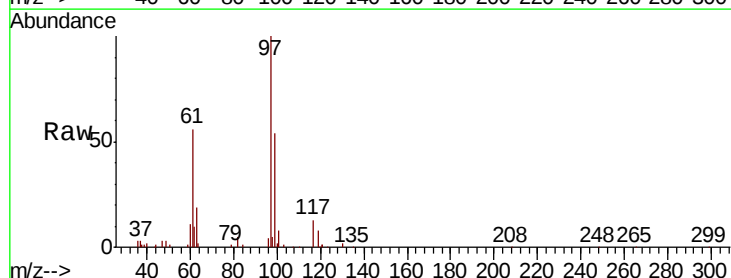
MMDadoda
10/18/2019 3:03:59 PM

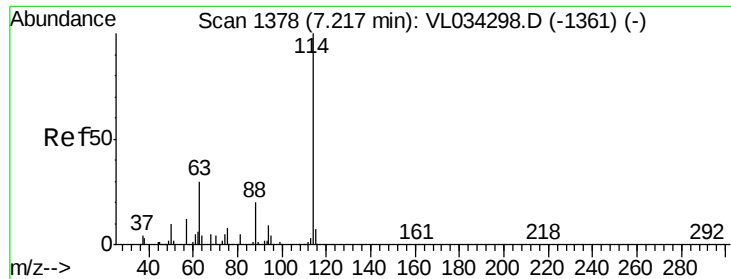


#32

1,1,1-Trichloroethane
Concen: 0.512 ppbv
RT: 6.54 min Scan# 1167
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	52.6	78.8
61	59.6	44.5	66.7





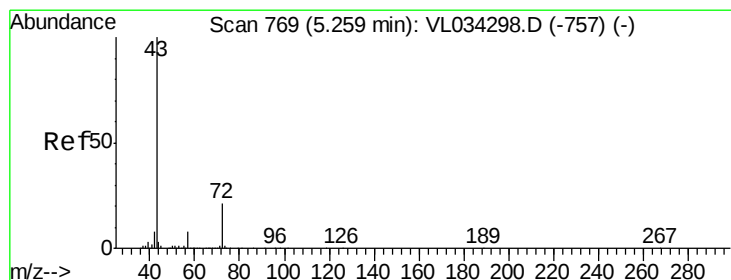
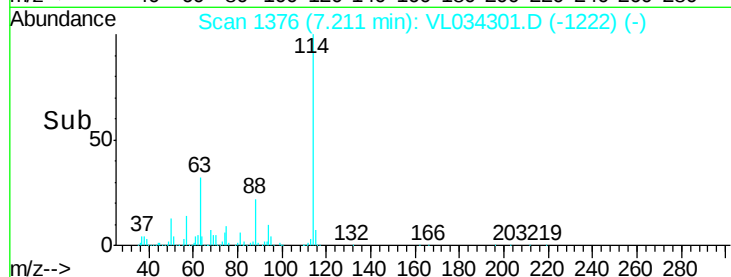
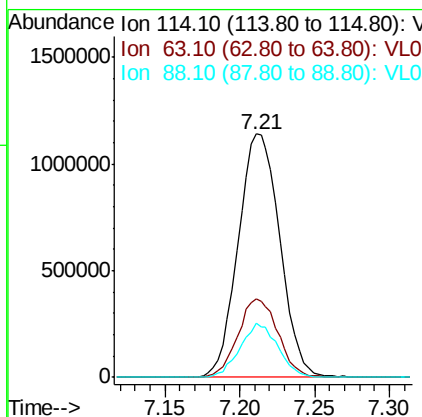
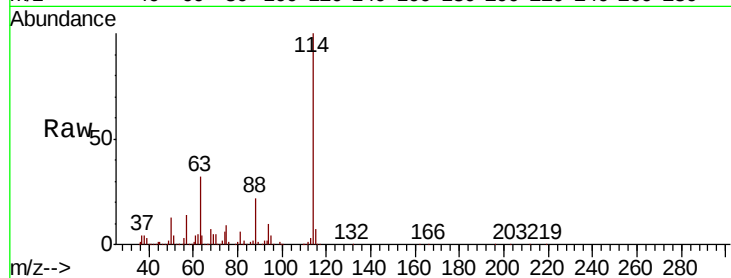
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.2	25.2	37.8
88	20.4	16.0	24.0

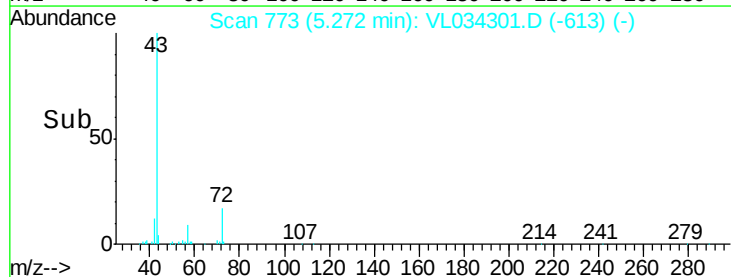
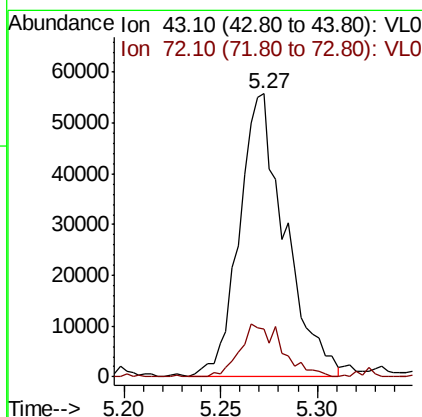
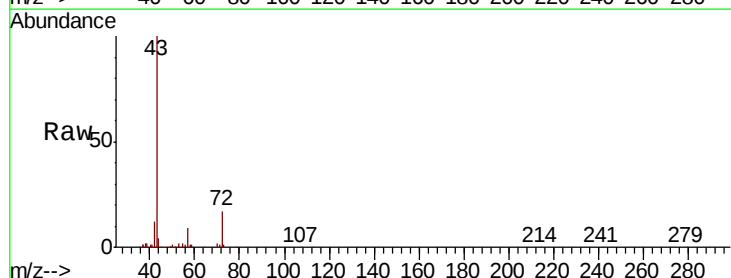
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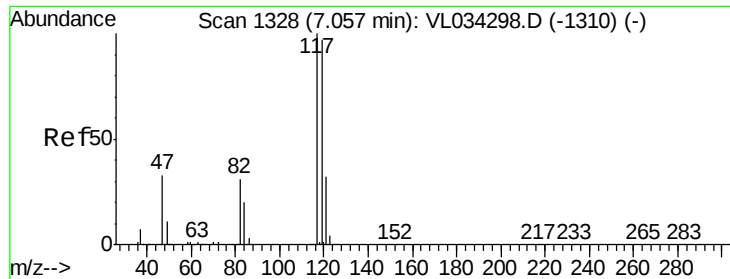
MMDadoda
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#34
 2-Butanone
 Concen: 0.406 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.01 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.4	16.3	24.5





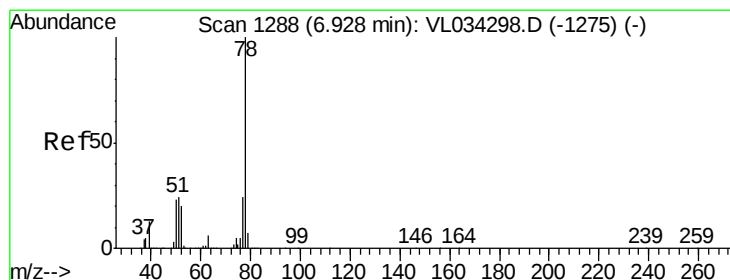
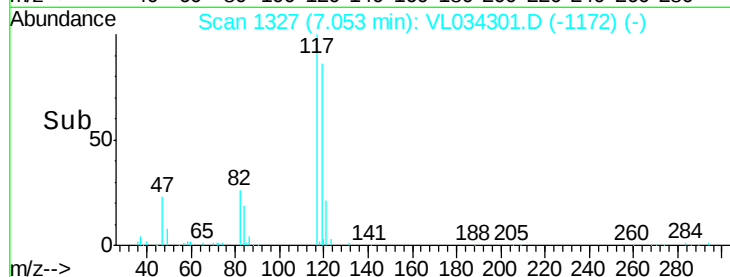
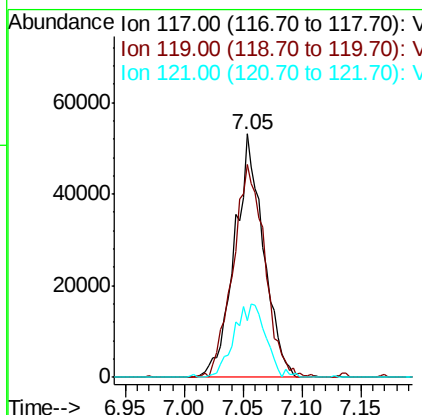
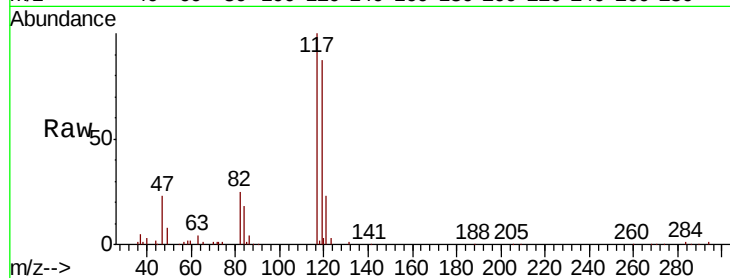
#35
Carbon Tetrachloride
Concen: 0.489 ppbv m
RT: 7.05 min Scan# 1327
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.2	77.3	115.9
121	23.4	25.5	38.3#

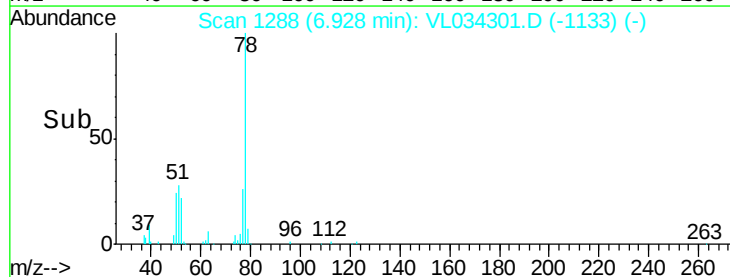
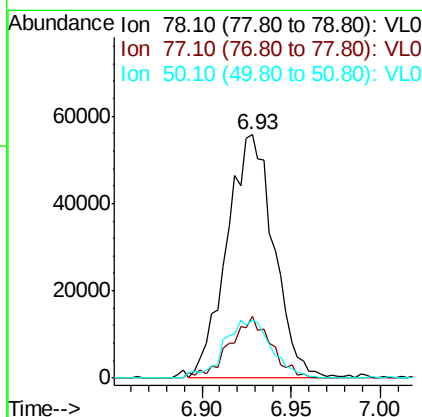
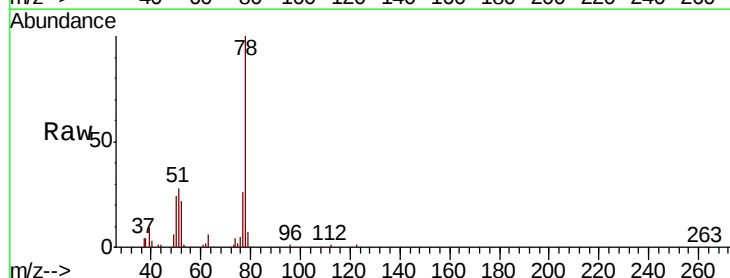
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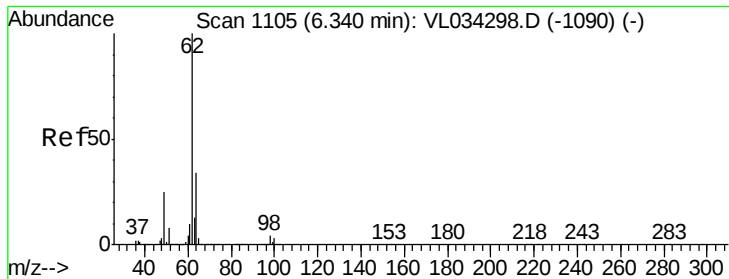
MMDadoda
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#36
Benzene
Concen: 0.420 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.0	28.4
50	24.1	18.6	27.8





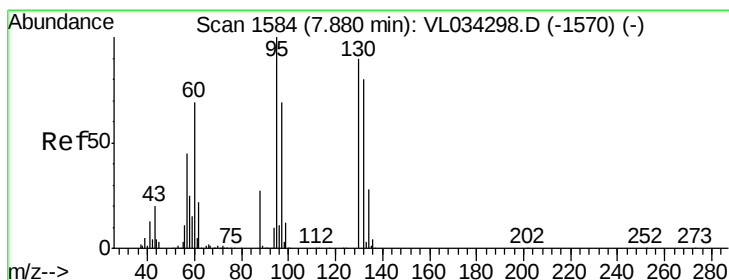
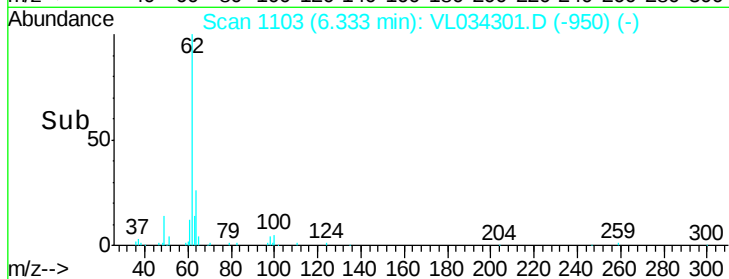
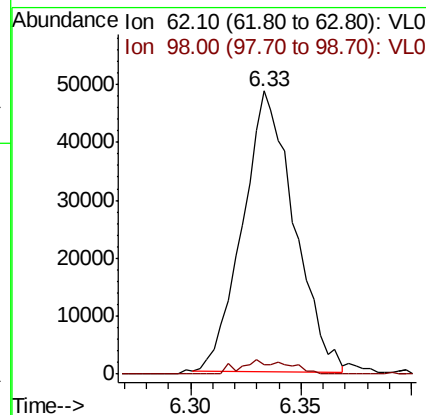
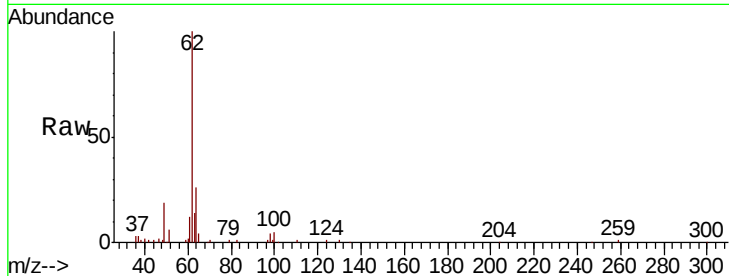
#37
 1,2-Dichloroethane
 Concen: 0.455 ppbv
 RT: 6.33 min Scan# 1103
 Delta R.T. -0.01 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 62 Resp: 78770
 Ion Ratio Lower Upper
 62 100
 98 4.8 3.8 5.6

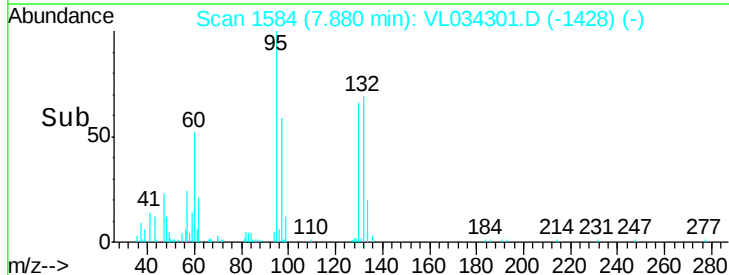
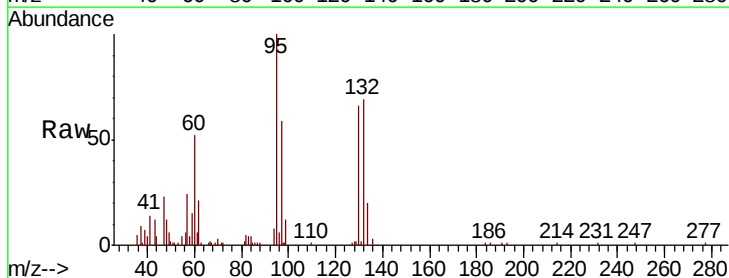
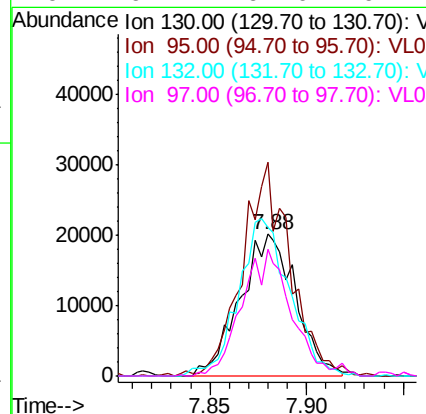
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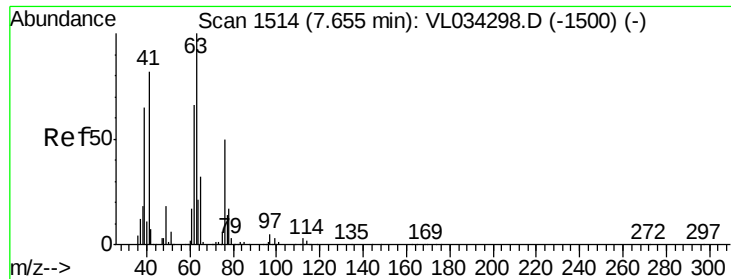
MMDadoda
 10/18/2019 3:03:59 PM



#38
 Trichloroethene
 Concen: 0.459 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion: 130 Resp: 39983
 Ion Ratio Lower Upper
 130 100
 95 149.3 88.6 132.8#
 132 102.6 71.2 106.8
 97 91.4 61.0 91.4





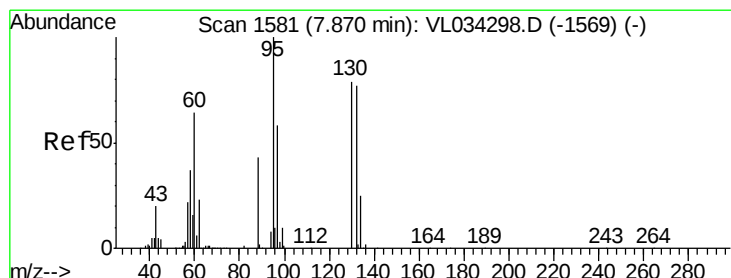
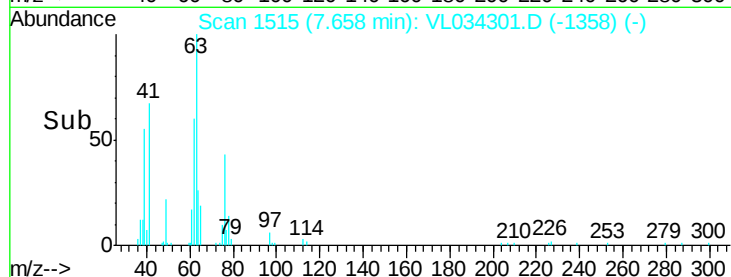
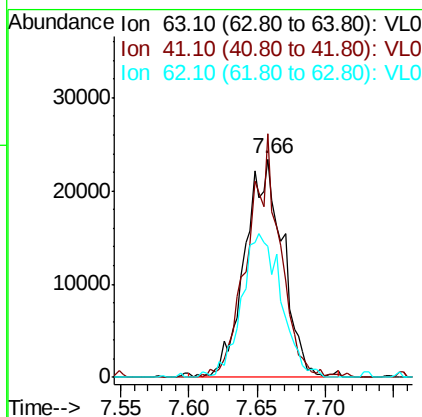
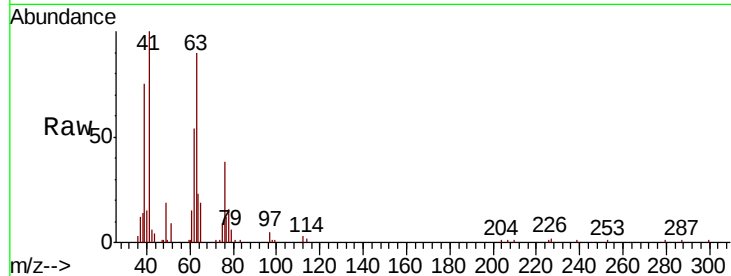
#39
 1,2-Dichloropropane
 Concen: 0.416 ppbv m
 RT: 7.66 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	111.5	65.6	98.4#
62	59.9	53.0	79.6

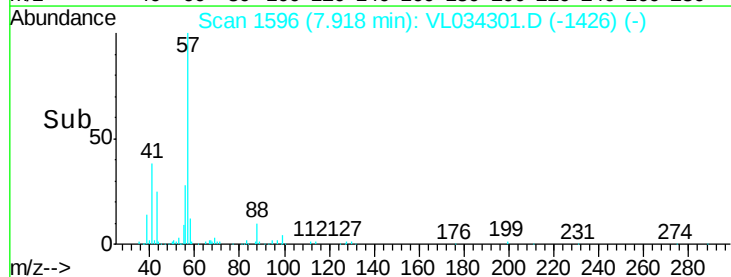
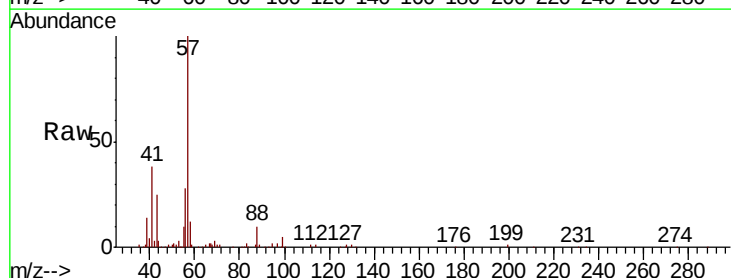
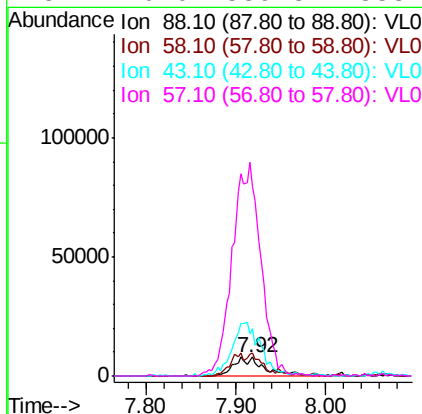
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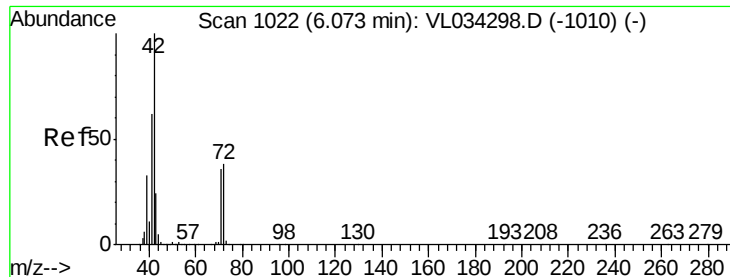
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#40
 1,4-Dioxane
 Concen: 0.537 ppbv m
 RT: 7.92 min Scan# 1596
 Delta R.T. 0.05 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
88	100		
58	131.6	110.3	165.5
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





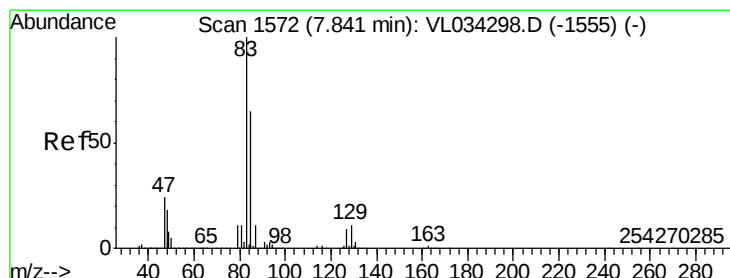
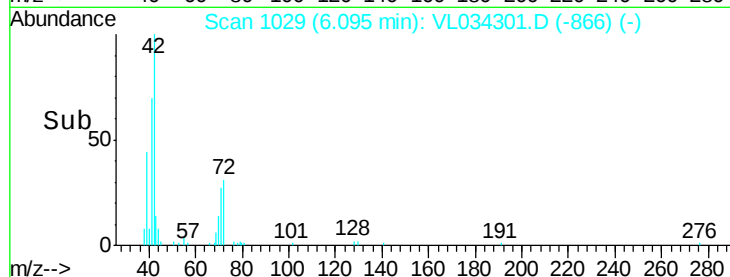
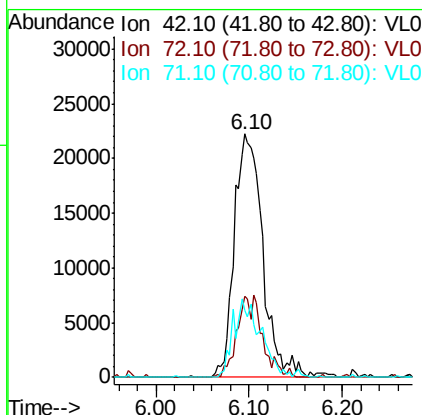
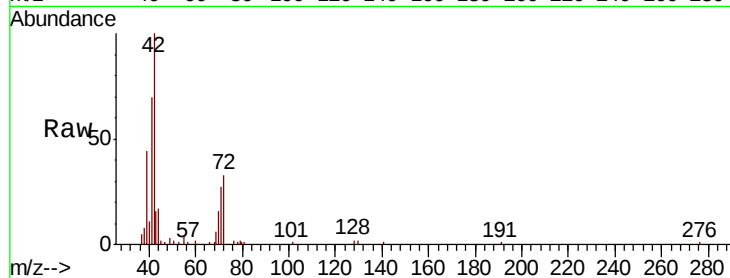
#41
Tetrahydrofuran
Concen: 0.377 ppbv m
RT: 6.10 min Scan# 1029
Delta R.T. 0.02 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.0	42.0#
71	0.0	27.3	40.9#

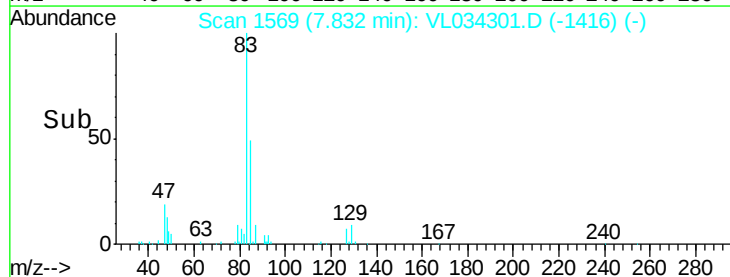
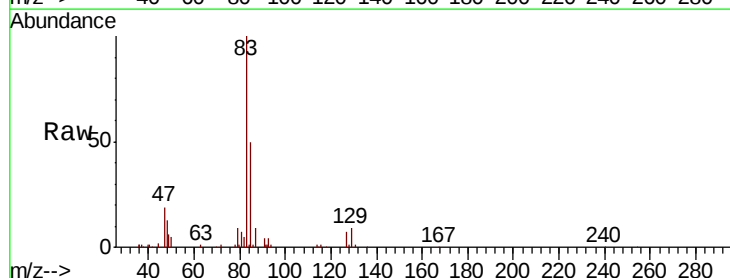
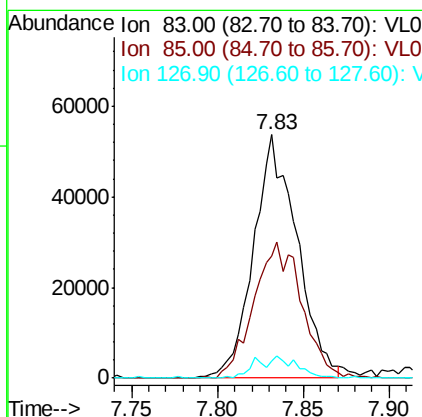
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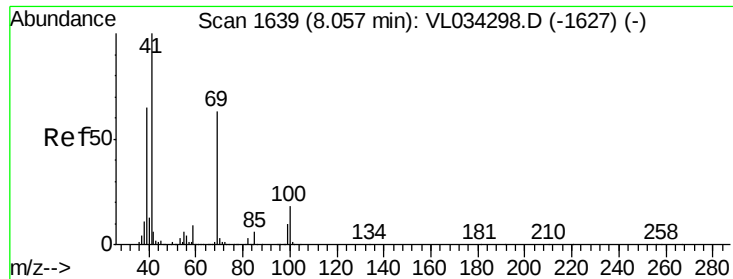
MMDadoda
10/18/2019 3:03:59 PM



#42
Bromodichloromethane
Concen: 0.452 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	49.9	51.8	77.6#
127	7.0	7.0	10.6





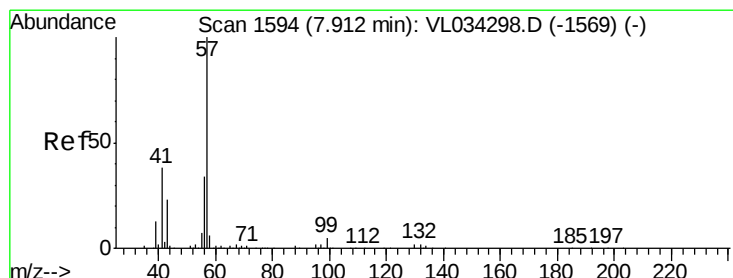
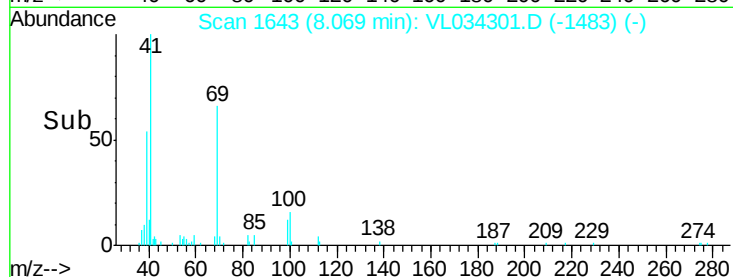
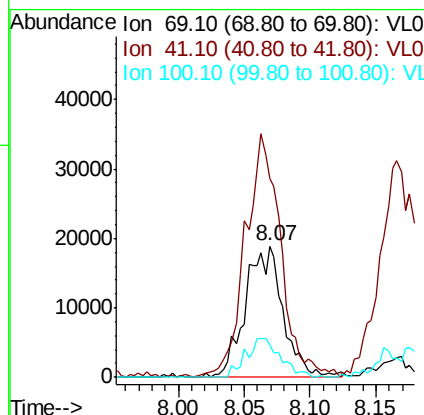
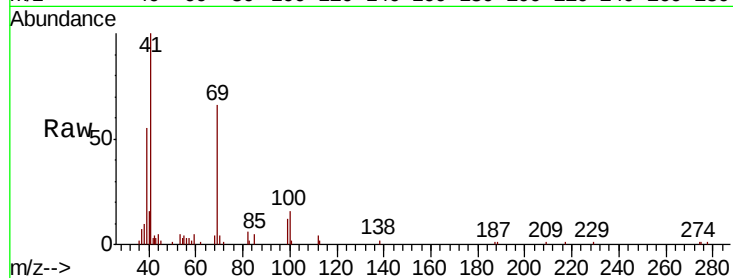
#43
Methvl Methacrilate
Concen: 0.375 ppbv m
RT: 8.07 min Scan# 1643
Delta R.T. 0.01 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	132.1	198.1#
100	0.0	23.2	34.8#

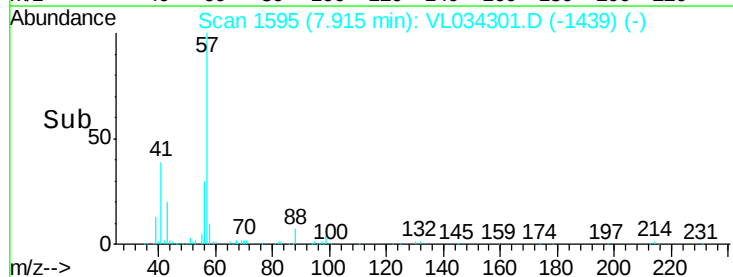
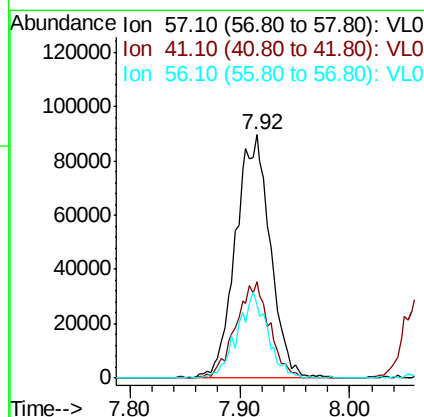
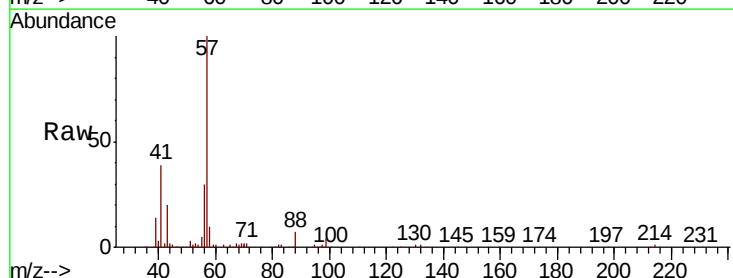
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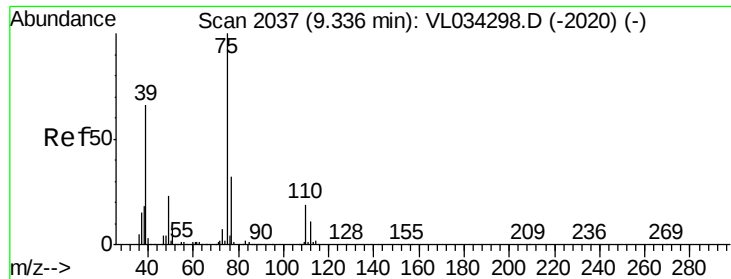
MMDadoda
10/18/2019 3:03:59 PM



#44
2,2,4-Trimethylpentane
Concen: 0.420 ppbv m
RT: 7.92 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	29.3	43.9#
56	0.0	25.3	37.9#





#45

t-1,3-Dichloropropene

Concen: 0.353 ppbv

RT: 9.33 min Scan# 2035

Delta R.T. -0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 42055

Ion Ratio Lower Upper

75 100

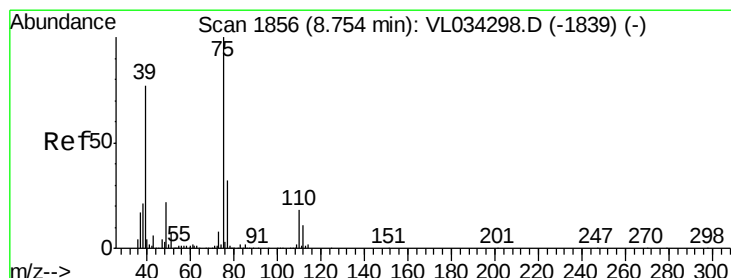
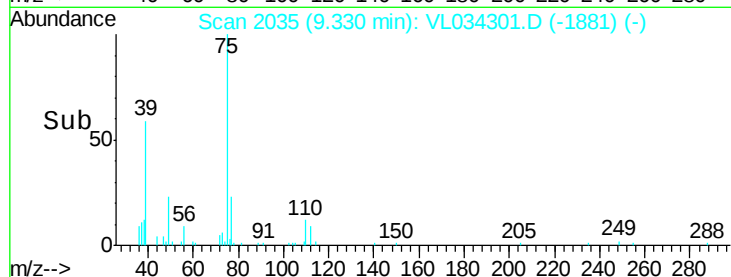
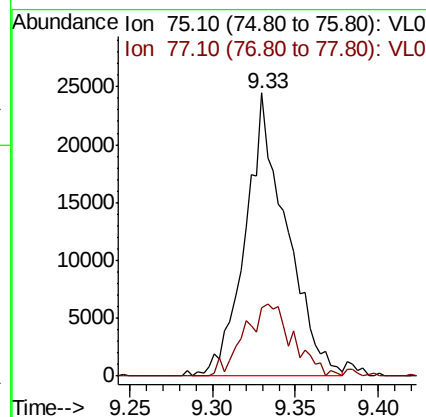
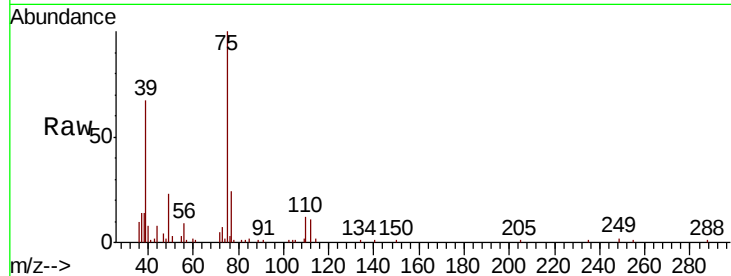
77 24.0 25.6 38.4#

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 0.343 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

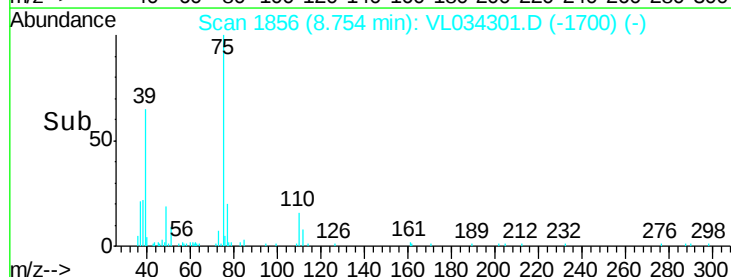
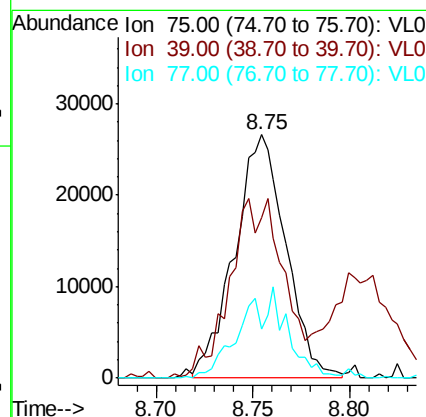
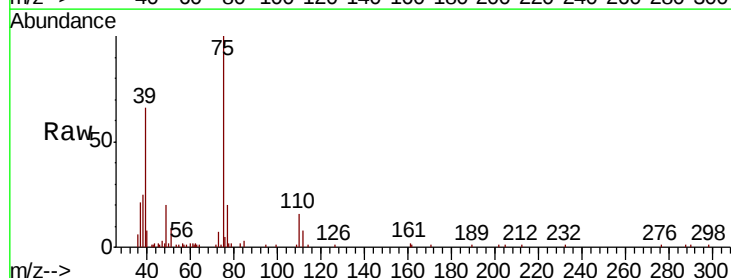
Tgt Ion: 75 Resp: 49150

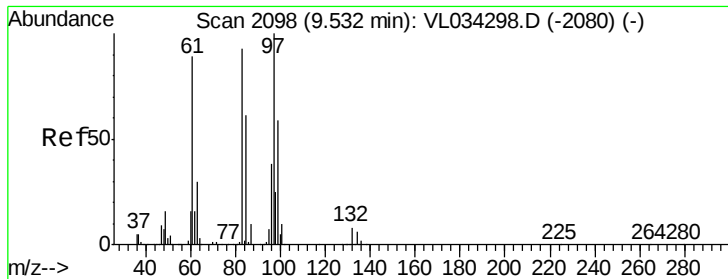
Ion Ratio Lower Upper

75 100

39 63.1 61.2 91.8

77 20.8 25.9 38.9#





#47

1,1,2-Trichloroethane

Concen: 0.485 ppbv m

RT: 9.53 min Scan# 2096

Delta R.T. -0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

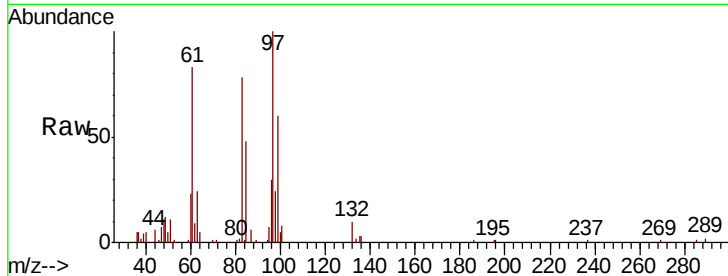
ClientSampleId :

VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	77.9	74.2	111.2	
85	47.6	48.6	73.0	
99	59.8	47.0	70.6	

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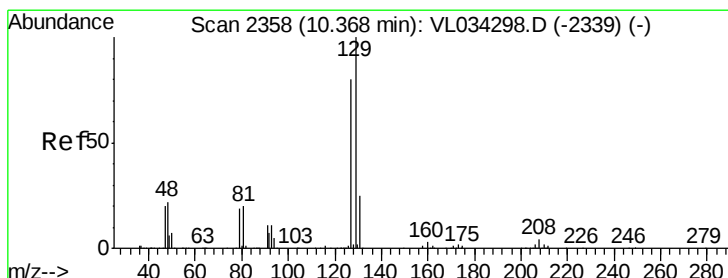
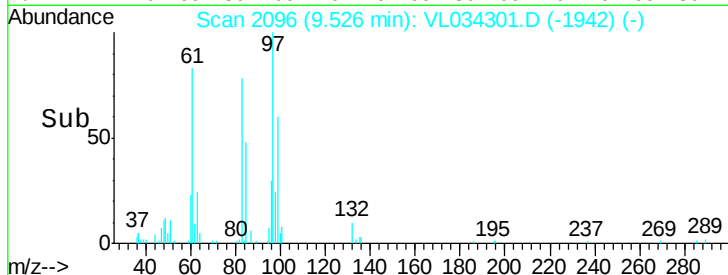
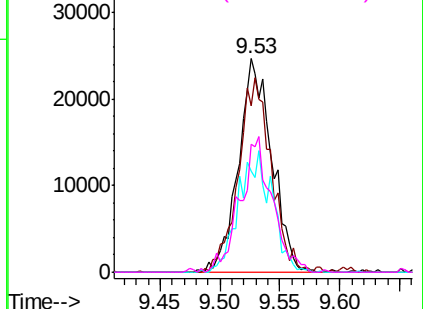


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.434 ppbv m

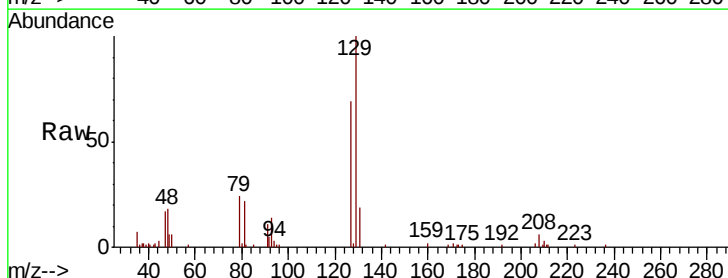
RT: 10.36 min Scan# 2355

Delta R.T. -0.01 min

Lab File: VL034301.D

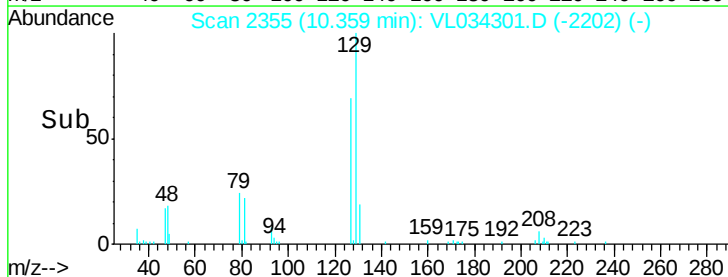
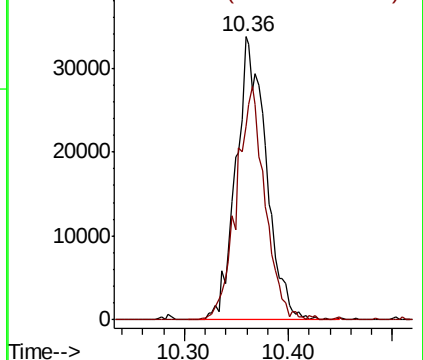
Acq: 16 Oct 2019 14:49

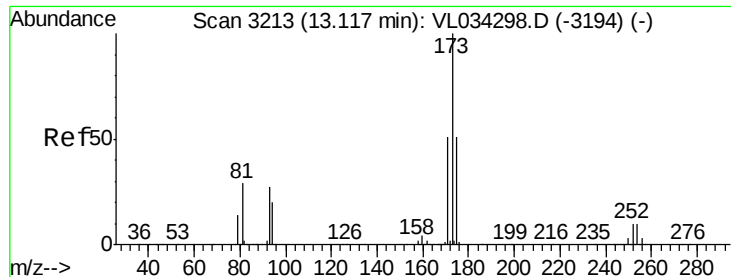
Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	0.0	39.7	119.1	



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





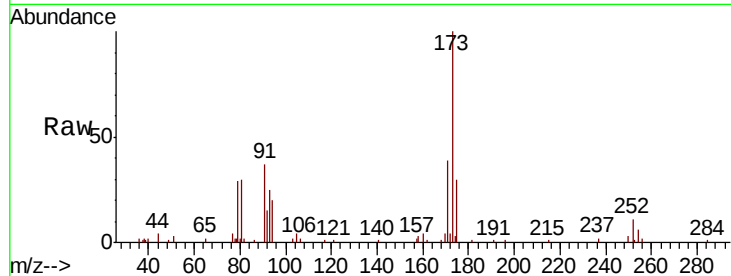
#49
Bromoform
Concen: 0.433 ppbv
RT: 13.10 min Scan# 3209
Delta R.T. -0.01 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

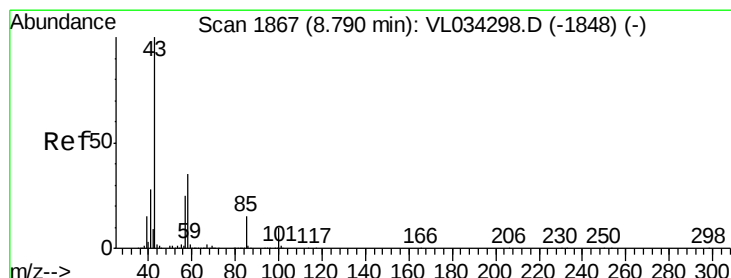
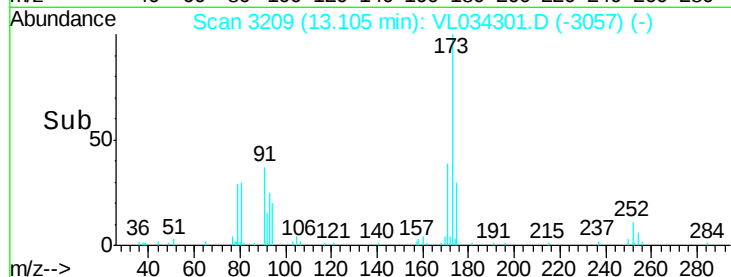
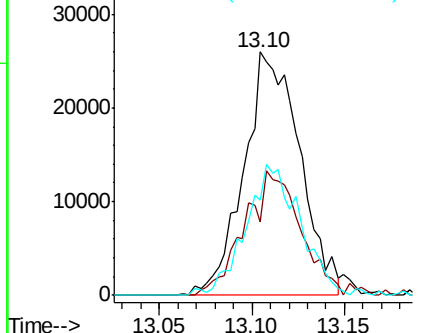
Tot Ion	Ratio	Lower	Upper
173	100		
175	52.4	39.8	59.6
171	52.6	41.8	62.6

Manual Integrations
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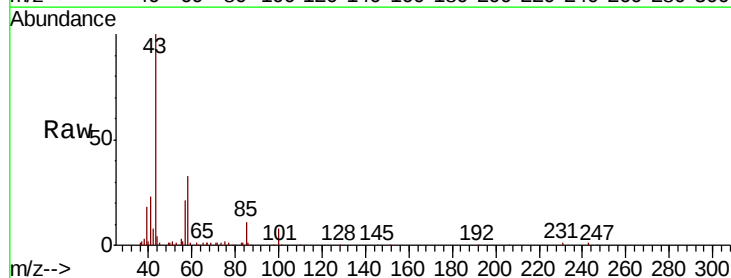


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

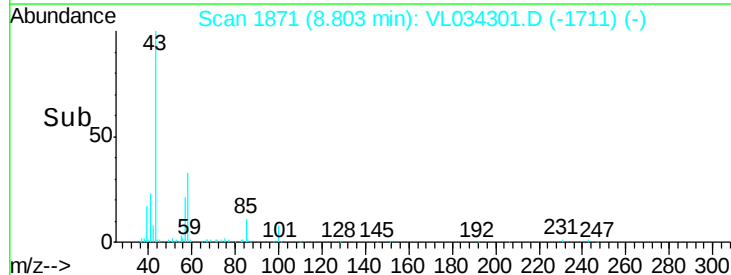
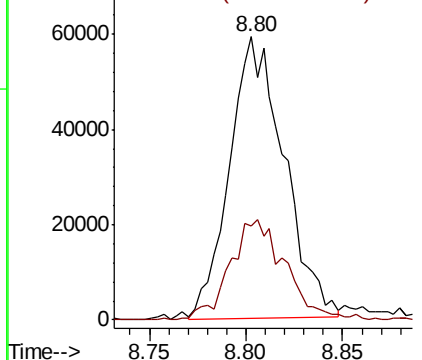


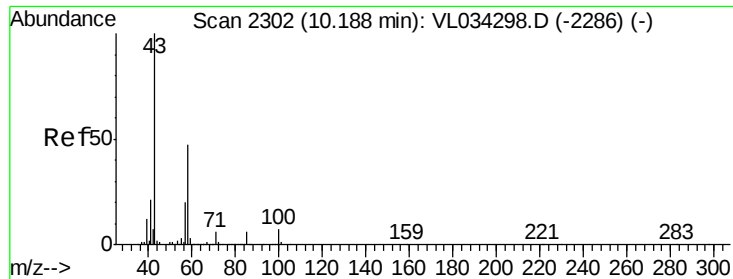
#50
4-Methyl-2-Pentanone
Concen: 0.353 ppbv
RT: 8.80 min Scan# 1871
Delta R.T. 0.01 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.3	27.6	41.4



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





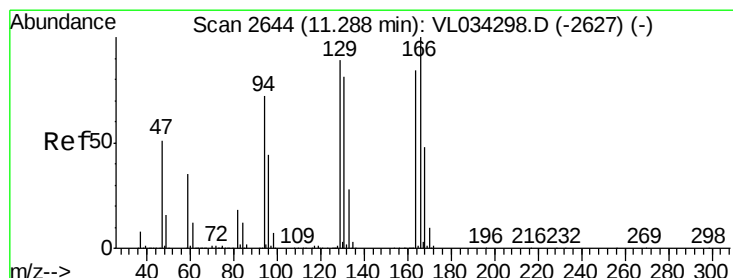
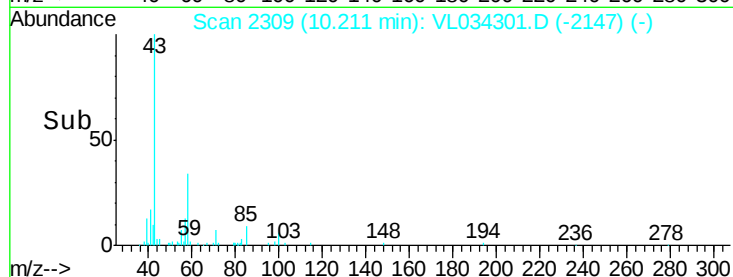
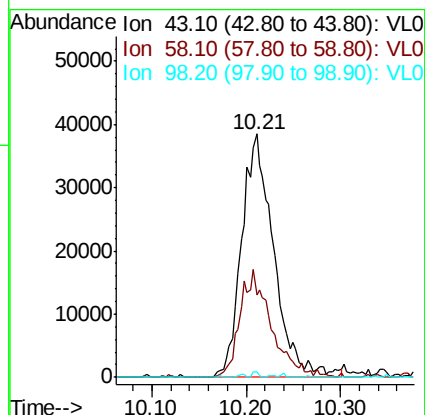
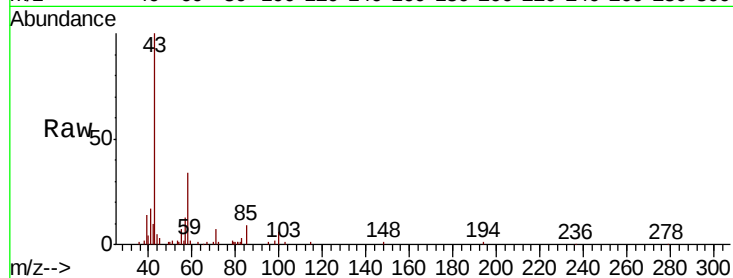
#51
2-Hexanone
Concen: 0.332 ppbv m
RT: 10.21 min Scan# 2309
Delta R.T. 0.02 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.3	37.0	55.6
98	0.9	0.2	0.2#

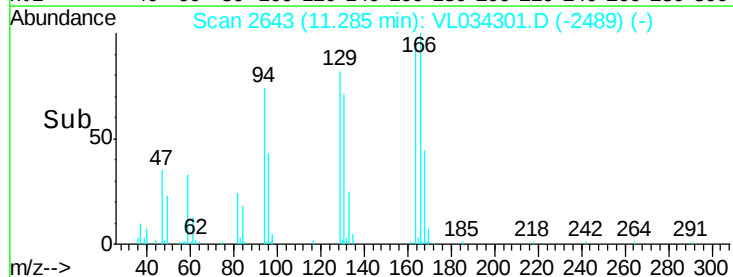
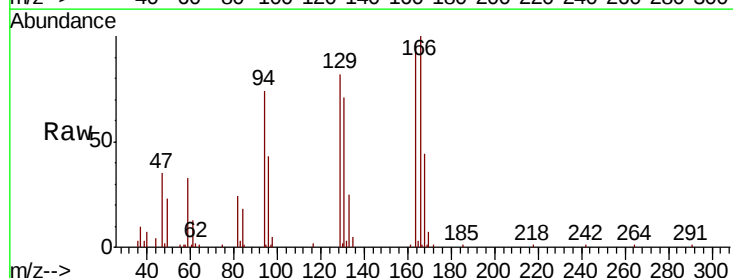
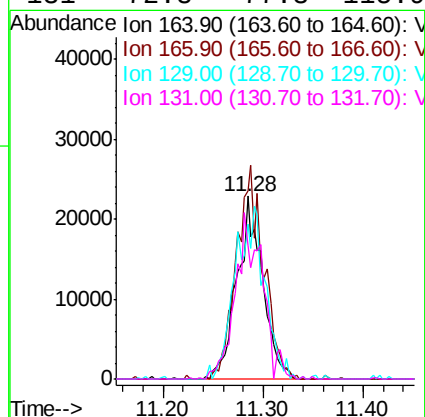
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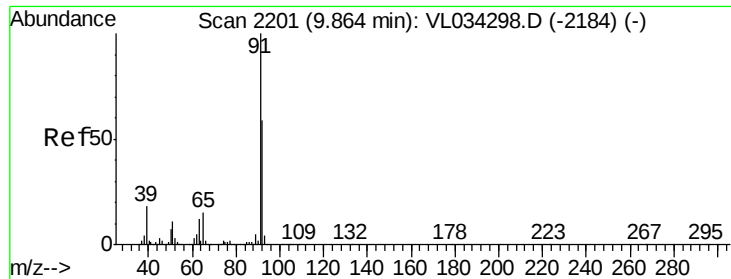
MMDadoda
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#52
Tetrachloroethene
Concen: 0.505 ppbv m
RT: 11.28 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	102.7	95.3	142.9
129	84.7	84.5	126.7
131	72.8	77.3	115.9#





#53

Toluene

Concen: 0.389 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 103688

Ion Ratio Lower Upper

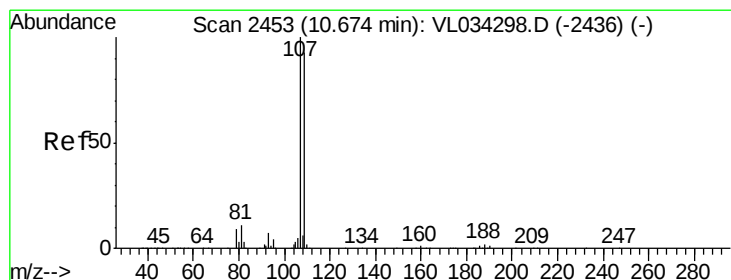
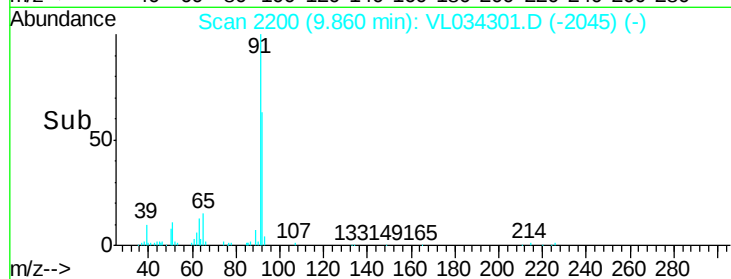
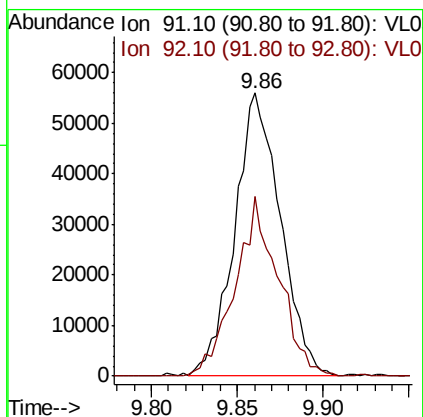
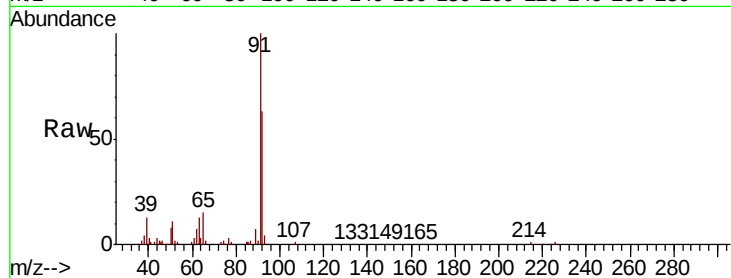
91 100

92 59.7 48.4 72.6

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 0.467 ppbv

RT: 10.67 min Scan# 2451

Delta R.T. -0.01 min

Lab File: VL034301.D

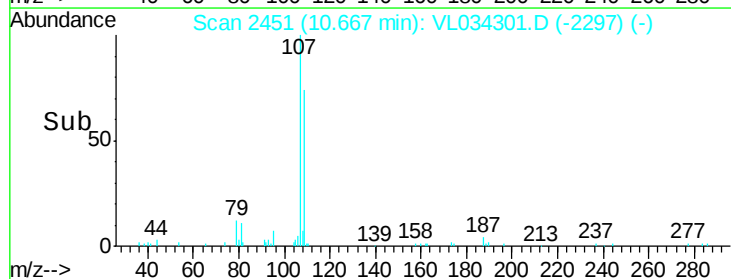
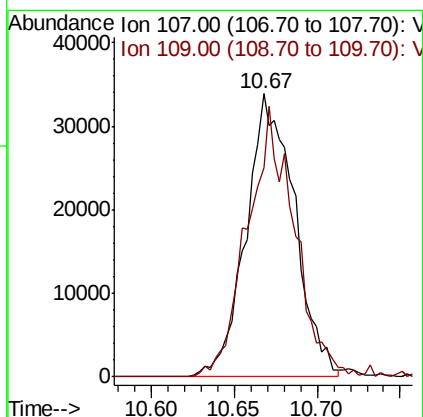
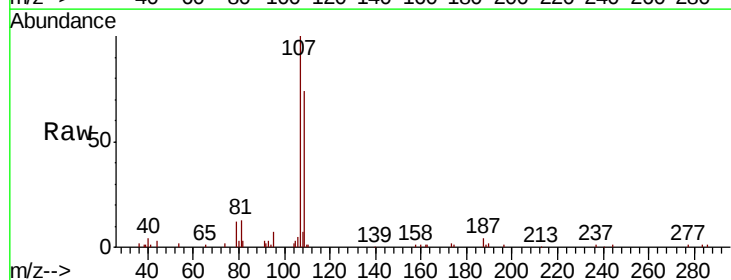
Acq: 16 Oct 2019 14:49

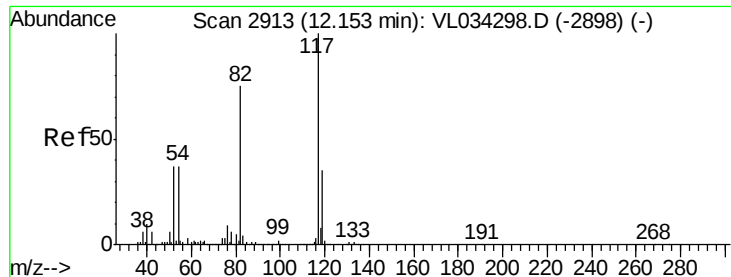
Tgt Ion: 107 Resp: 68276

Ion Ratio Lower Upper

107 100

109 73.9 74.6 112.0#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:117 Resp: 2220866

Ion Ratio Lower Upper

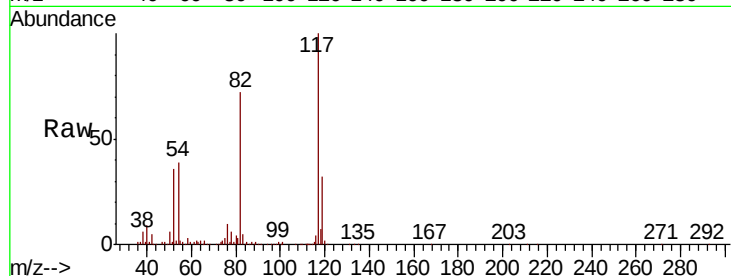
117 100

82 72.1 55.5 83.3

119 33.9 26.5 39.7

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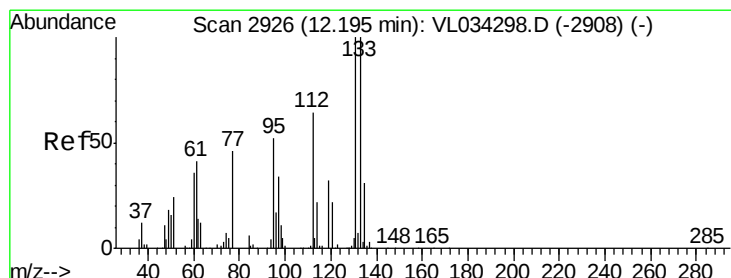
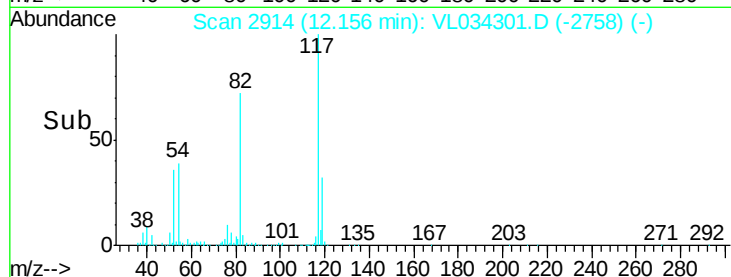
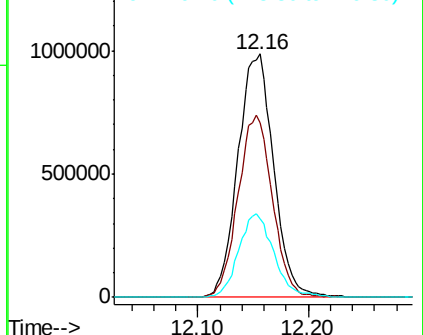
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.539 ppbv m

RT: 12.19 min Scan# 2926

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

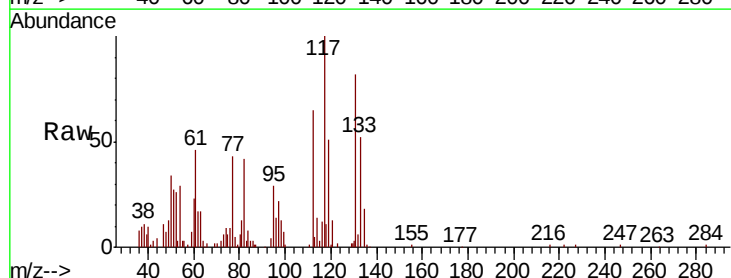
Tgt Ion:131 Resp: 53387

Ion Ratio Lower Upper

131 100

133 91.2 77.1 115.7

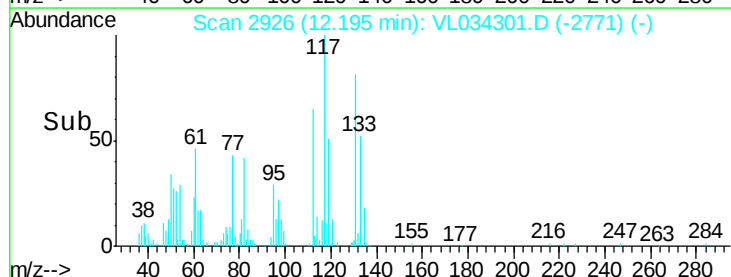
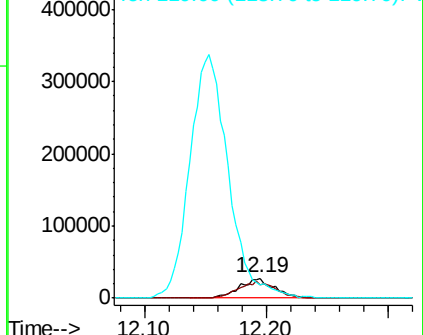
119 0.0 49.0 73.4#

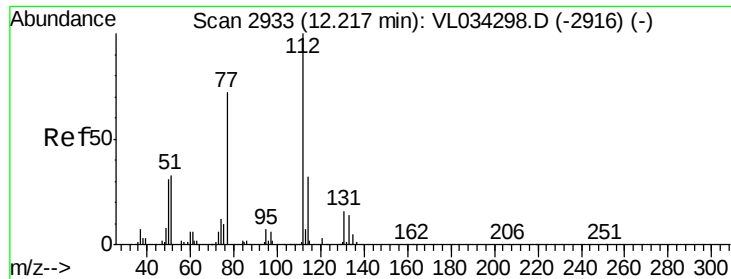


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





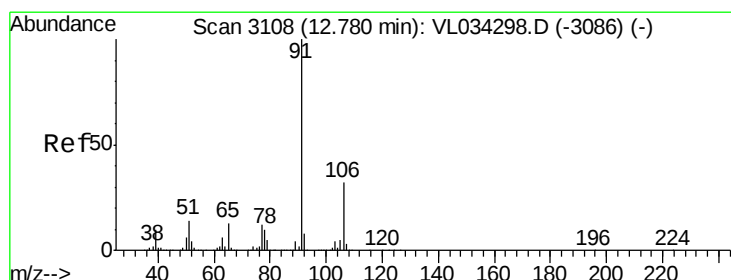
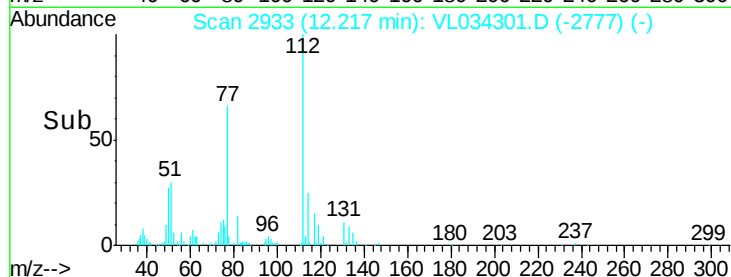
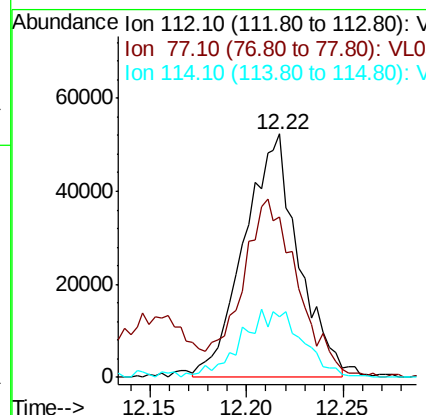
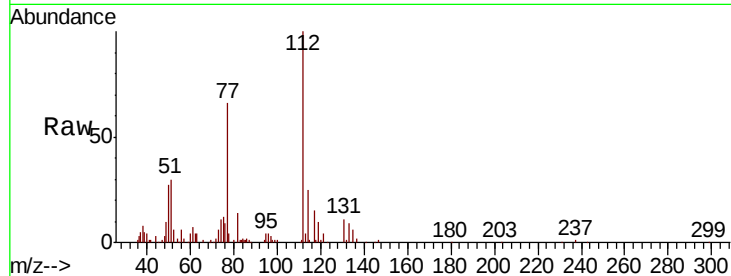
#57
Chlorobenzene
Concen: 0.525 ppbv
RT: 12.22 min Scan# 2933
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	64.0	58.6	88.0
114	24.4	28.6	35.0#

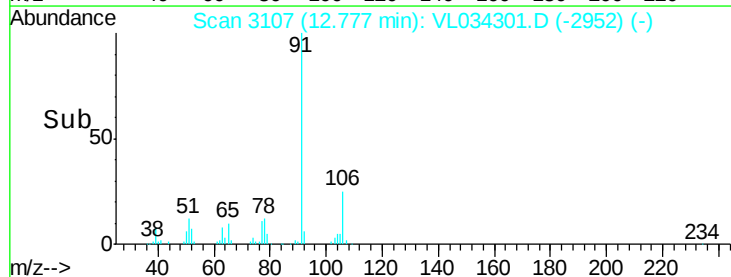
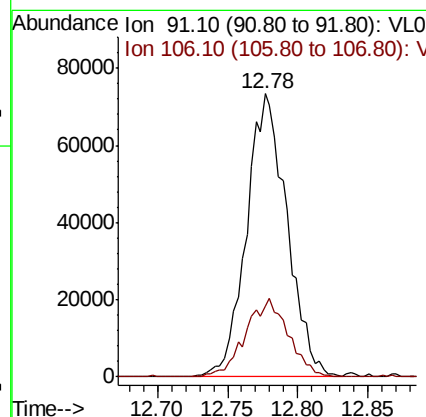
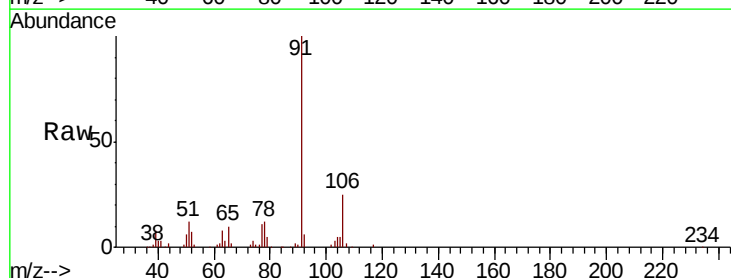
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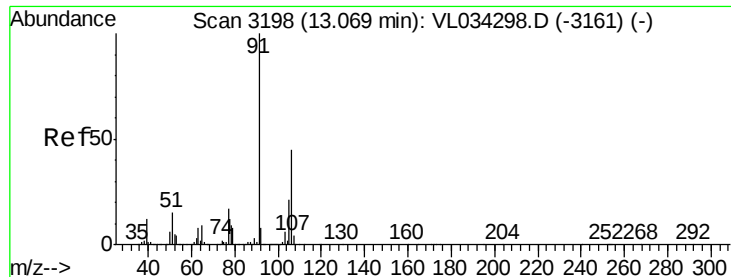
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#58
Ethyl Benzene
Concen: 0.412 ppbv
RT: 12.78 min Scan# 3107
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	24.9	25.3	37.9#





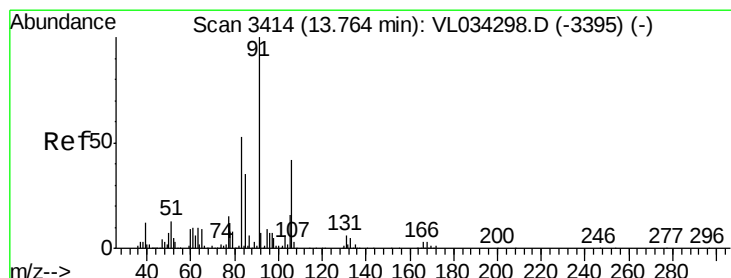
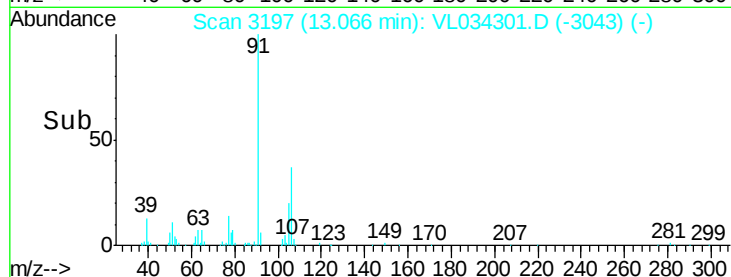
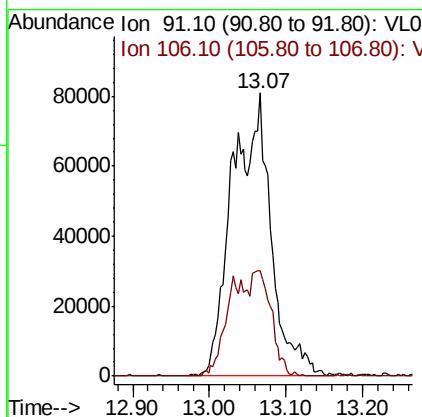
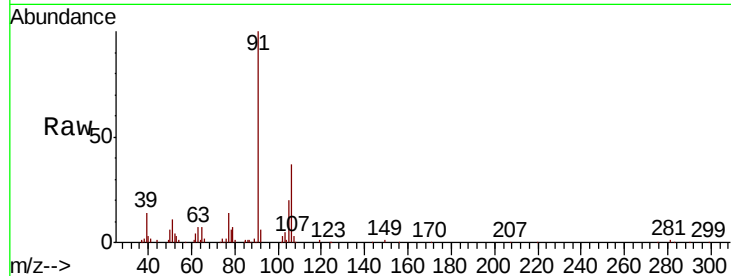
#59
m/p-Xylene
Concen: 0.950 ppbv m
RT: 13.07 min Scan# 3197
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 281993
Ion Ratio Lower Upper
91 100
106 39.2 35.4 53.2

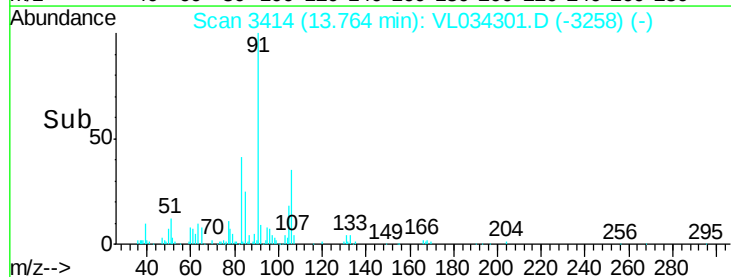
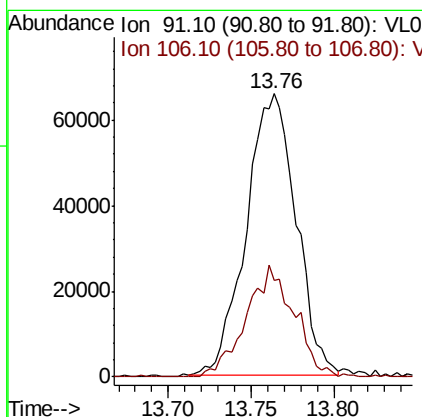
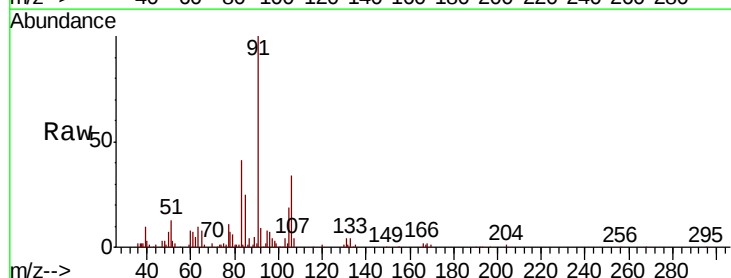
Manual Integrations
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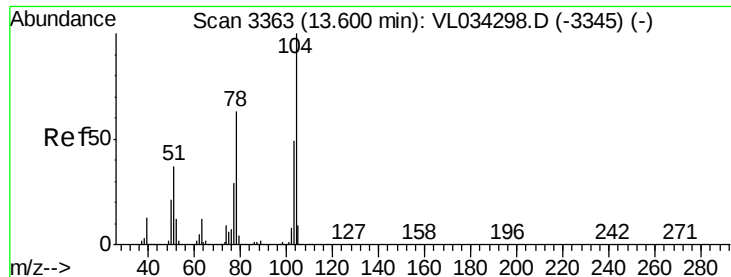
MMDadoda
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#60
o-Xylene
Concen: 0.461 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. -0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion: 91 Resp: 136768
Ion Ratio Lower Upper
91 100
106 38.3 21.6 64.6





#61

Stvrene

Concen: 0.387 ppbv

RT: 13.60 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

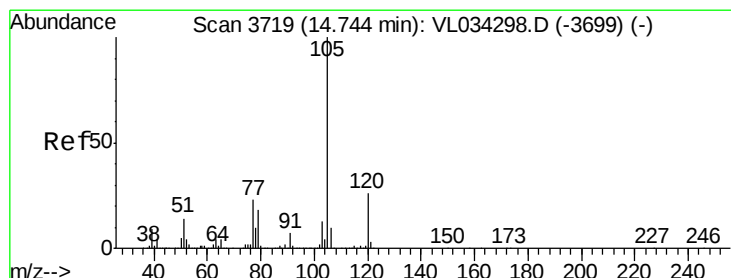
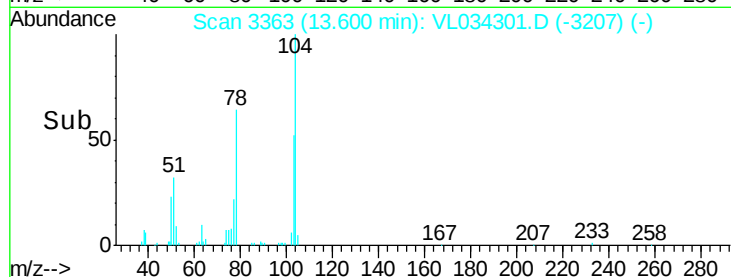
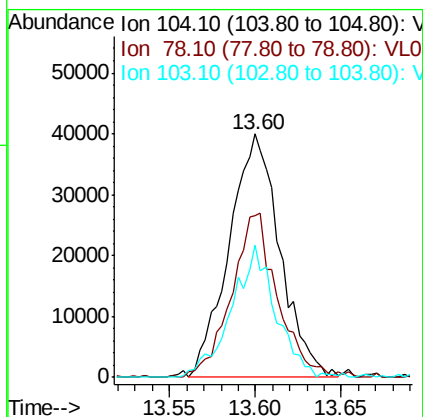
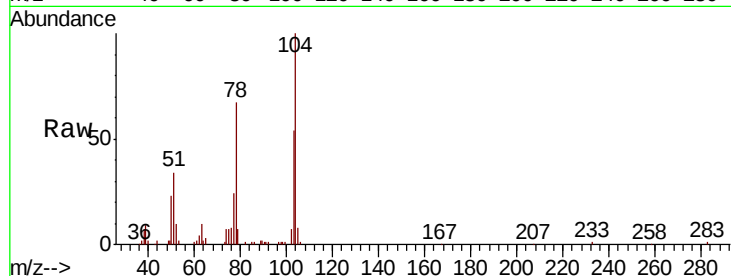
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	82269
Ion Ratio	Lower	Upper	
104	100		
78	61.6	47.8	71.8
103	47.3	39.0	58.6

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.467 ppbv

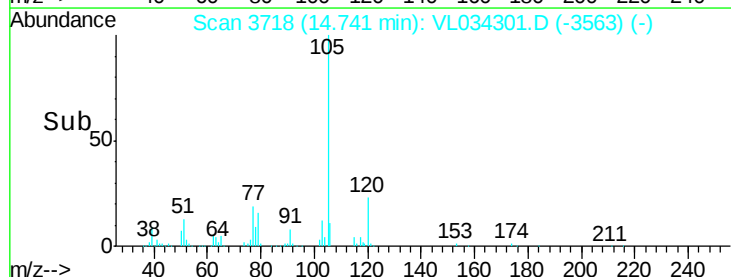
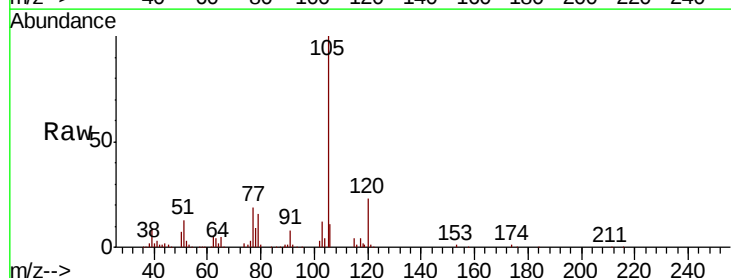
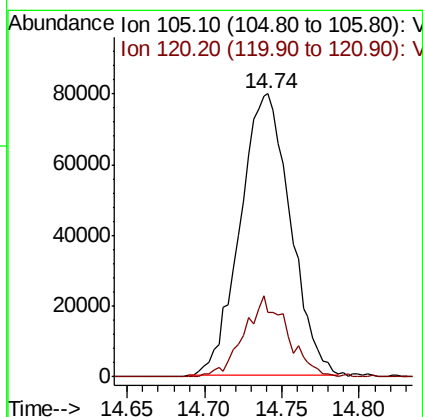
RT: 14.74 min Scan# 3718

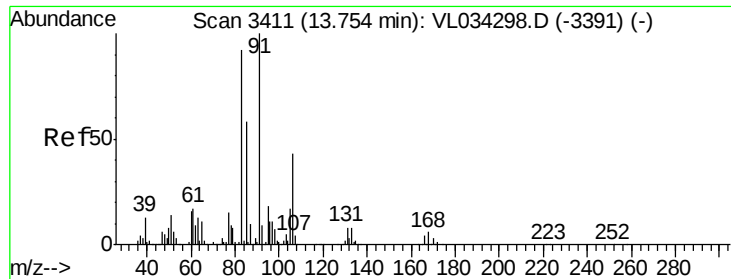
Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion:	105	Resp:	179586
Ion Ratio	Lower	Upper	
105	100		
120	25.1	20.8	31.2





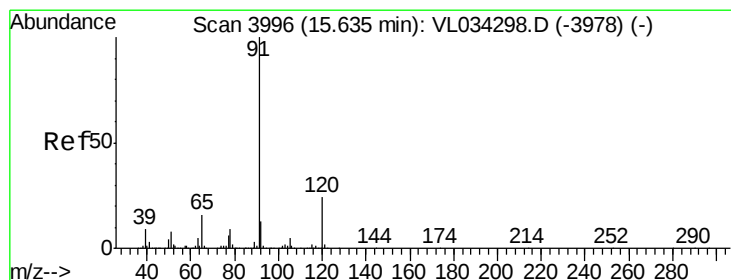
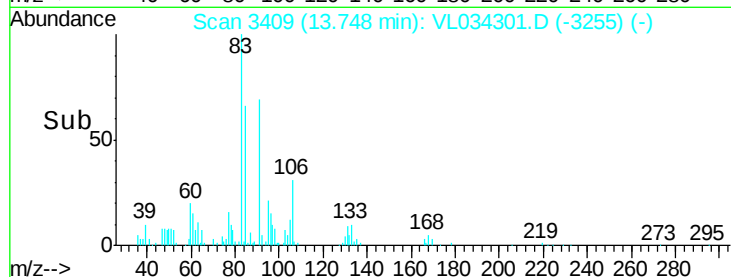
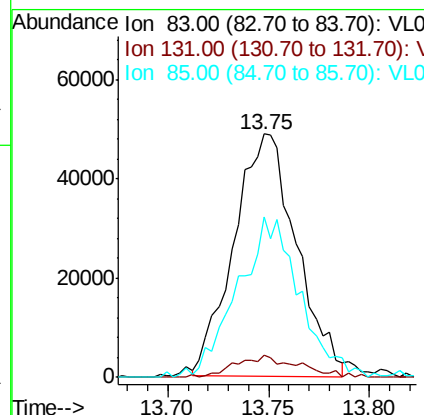
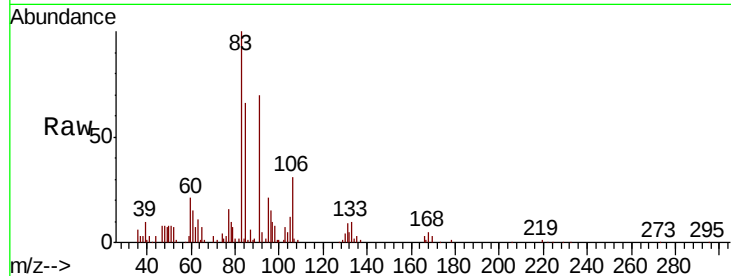
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.435 ppbv
 RT: 13.75 min Scan# 3409
 Delta R.T. -0.01 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	83	Resp	105922
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.8	14.4
85	66.7	32.5	97.4

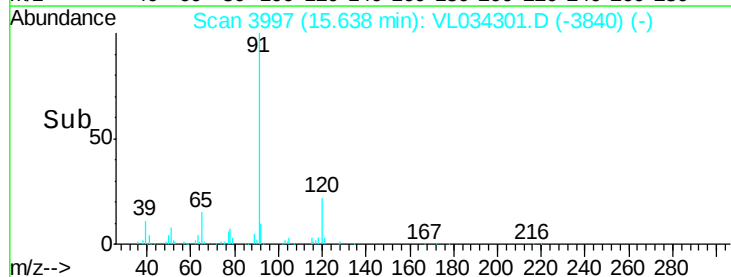
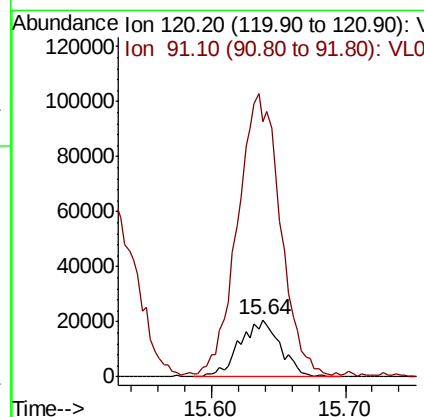
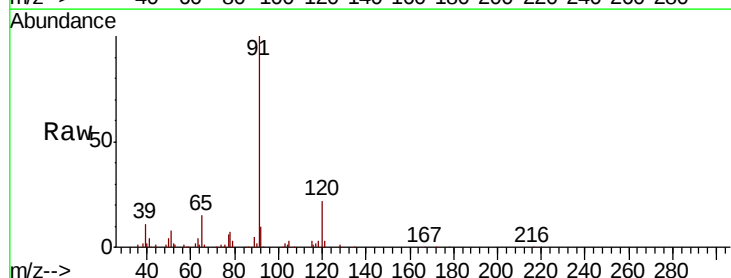
Manual Integrations
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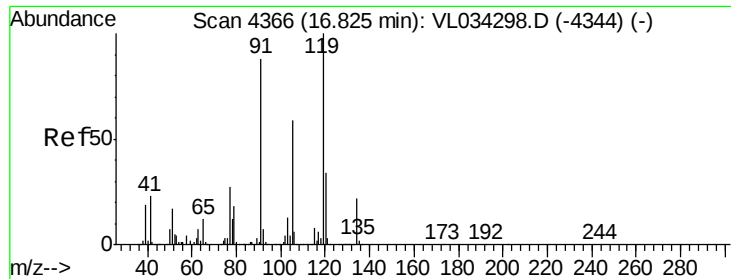
MMDadoda
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#64
 n-propylbenzene
 Concen: 0.447 ppbv m
 RT: 15.64 min Scan# 3997
 Delta R.T. 0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion	120	Resp	43496
Ion	Ratio	Lower	Upper
120	100		
91	532.4	374.9	562.3





#65

tert-Butylbenzene

Concen: 0.461 ppbv m

RT: 16.82 min Scan# 4365

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

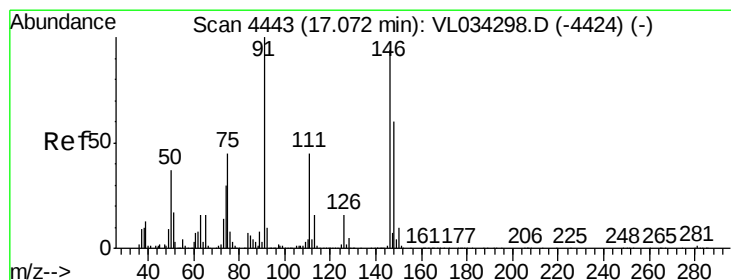
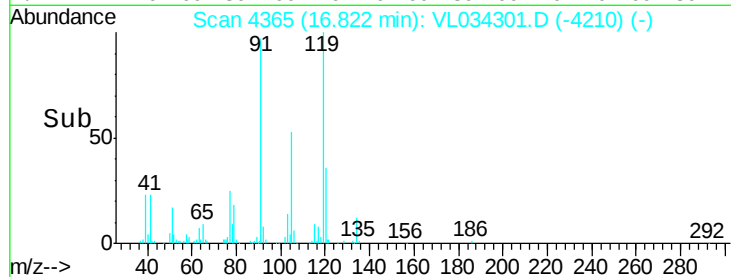
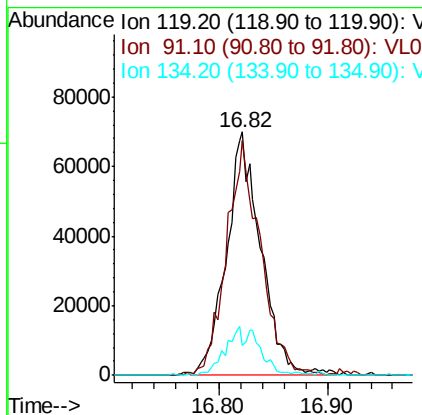
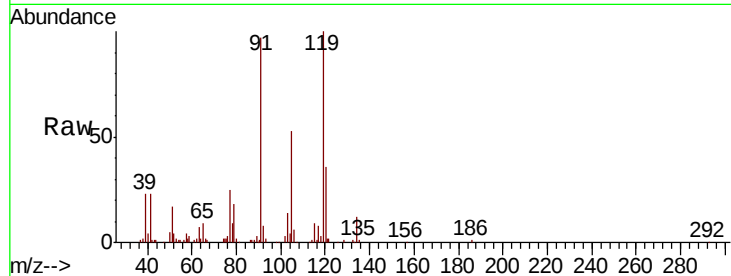
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	154864
Ion	Ratio	Lower	Upper
119	100		
91	95.6	71.4	107.0
134	19.8	15.9	23.9

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.399 ppbv m

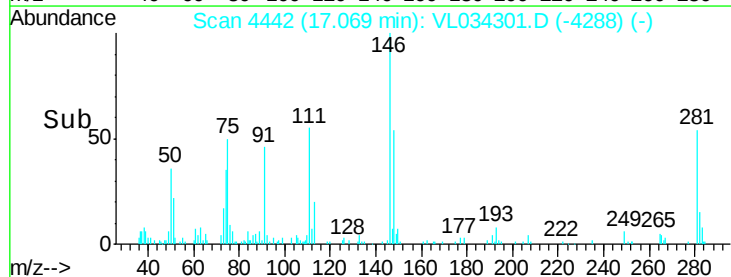
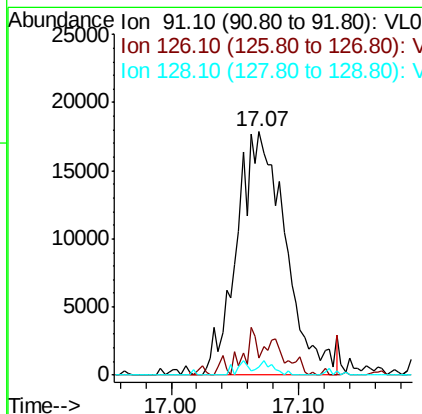
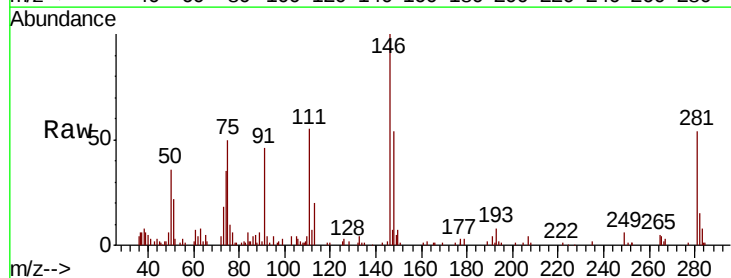
RT: 17.07 min Scan# 4442

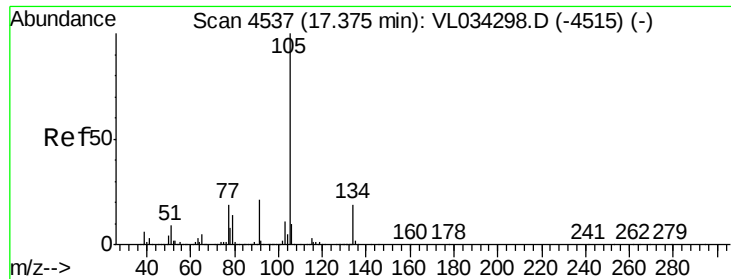
Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion:	91	Resp:	47377
Ion	Ratio	Lower	Upper
91	100		
126	0.0	12.9	19.3#
128	0.0	4.3	6.5#





#67

sec-Butylbenzene

Concen: 0.461 ppbv

RT: 17.38 min Scan# 4538

Delta R.T. 0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 221260

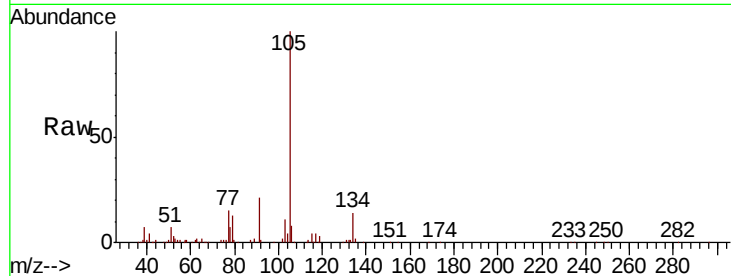
Ion Ratio Lower Upper

105 100

134 17.0 15.4 23.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.38

100000

80000

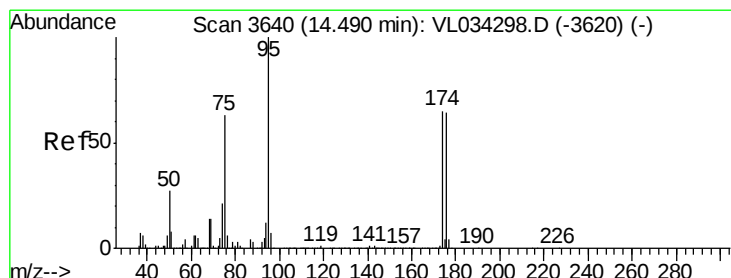
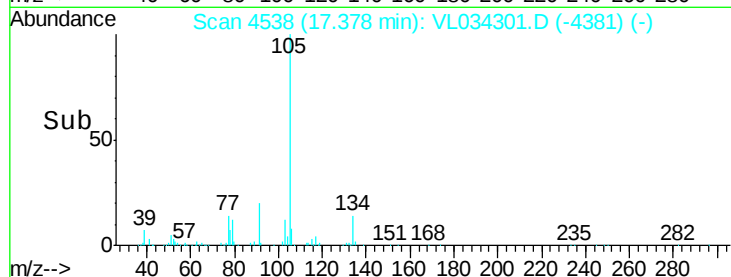
60000

40000

20000

0

Time--> 17.30 17.35 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 9.880 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

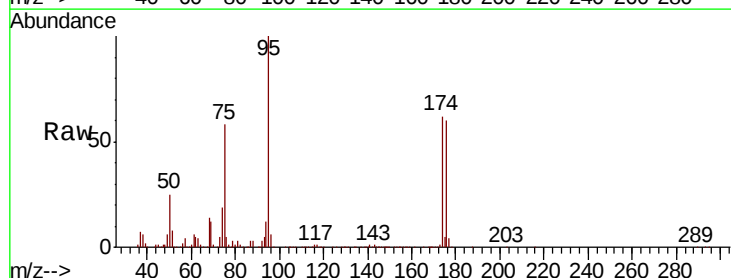
Tgt Ion: 95 Resp: 1906583

Ion Ratio Lower Upper

95 100

174 65.6 52.6 78.8

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1200000

1000000

800000

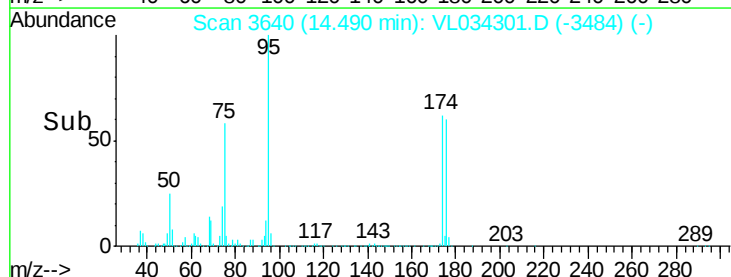
600000

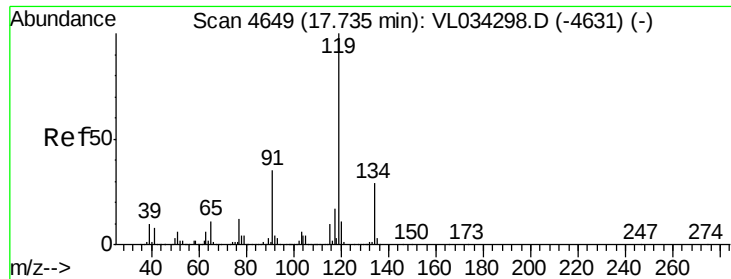
400000

200000

0

Time--> 14.40 14.45 14.50 14.55





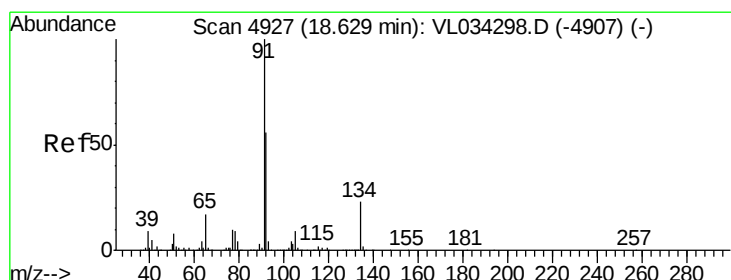
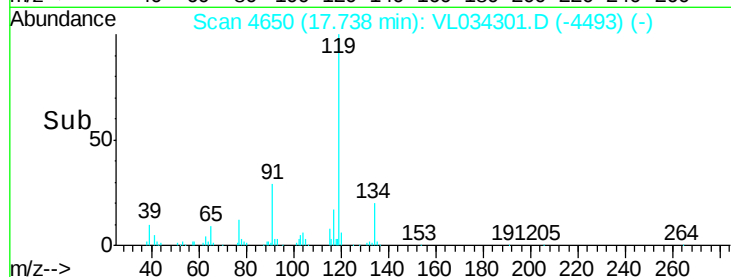
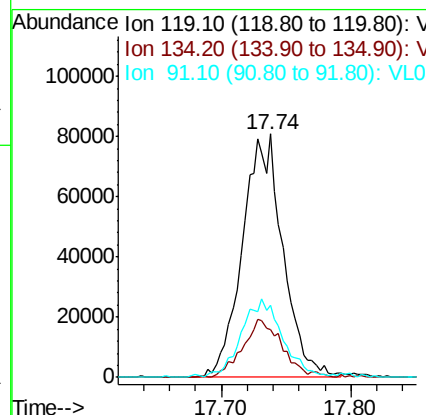
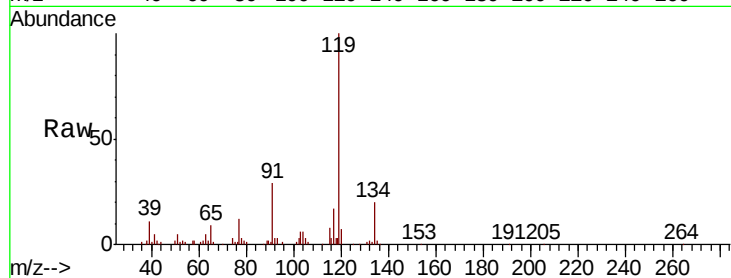
#69
p-Isopropyltoluene
Concen: 0.451 ppbv m
RT: 17.74 min Scan# 4650
Delta R.T. 0.00 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	175122		
134	0.0	21.3	31.9#	
91	0.0	26.6	39.8#	

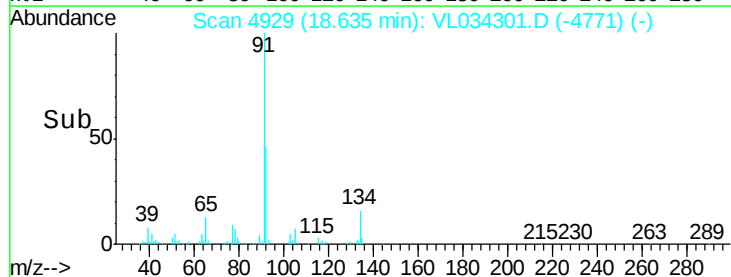
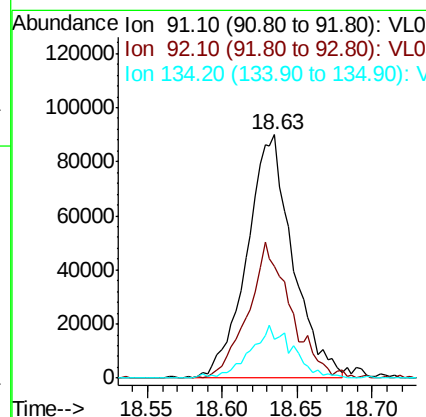
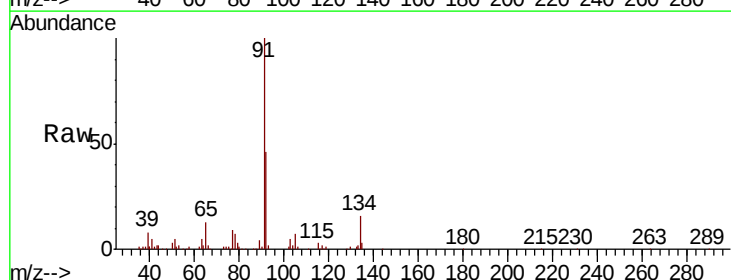
Manual Integrations
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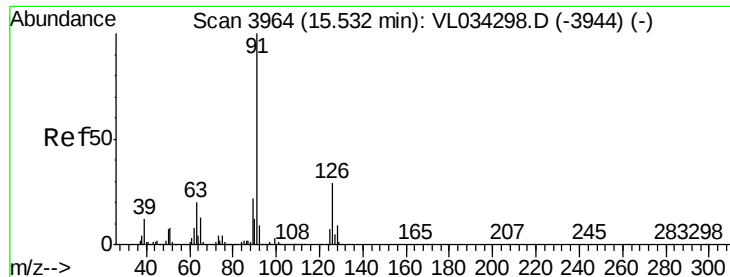
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#70
n-Butylbenzene
Concen: 0.420 ppbv
RT: 18.63 min Scan# 4929
Delta R.T. 0.01 min
Lab File: VL034301.D
Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	190255		
92	53.0	44.5	66.7	
134	20.4	18.2	27.2	





#71

2-Chlorotoluene

Concen: 0.424 ppbv

RT: 15.53 min Scan# 3963

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 132959

Ion Ratio Lower Upper

91 100

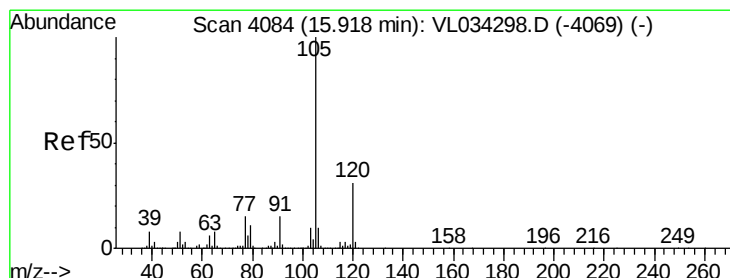
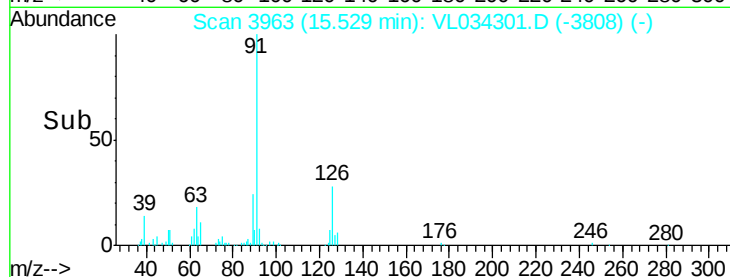
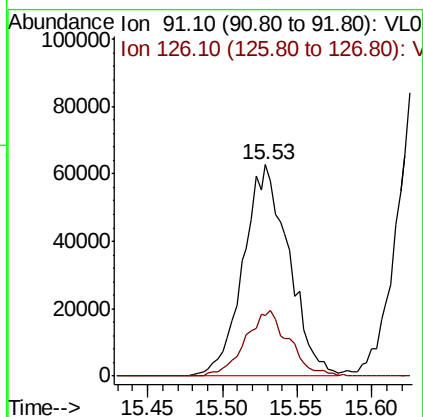
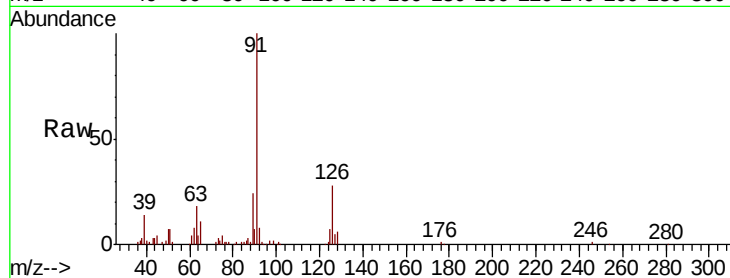
126 29.7 11.9 47.5

Manual Integrations

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#72

4-Ethyltoluene

Concen: 0.423 ppbv m

RT: 15.91 min Scan# 4082

Delta R.T. -0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion: 105 Resp: 141917

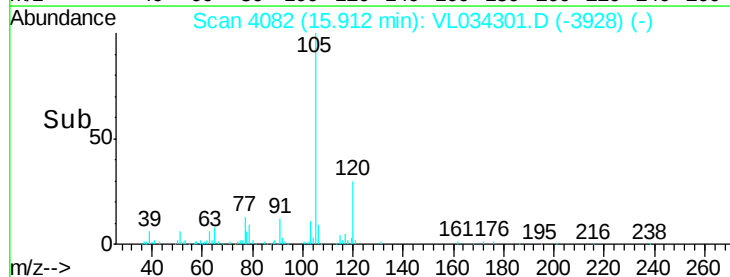
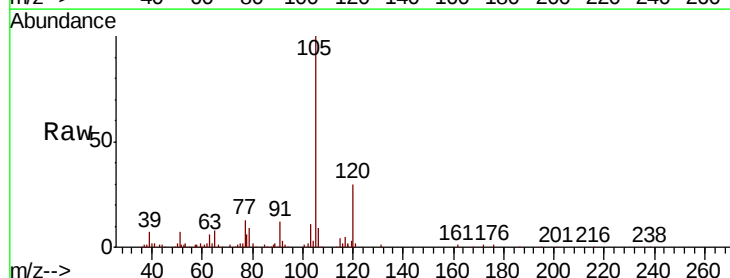
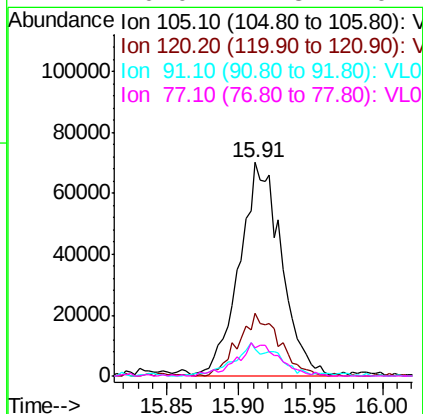
Ion Ratio Lower Upper

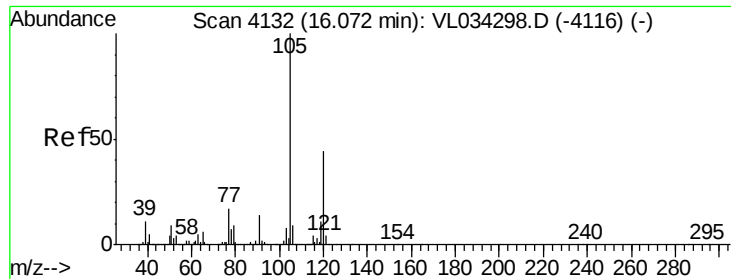
105 100

120 0.0 23.8 35.8#

91 0.0 11.2 16.8#

77 0.0 12.8 19.2#





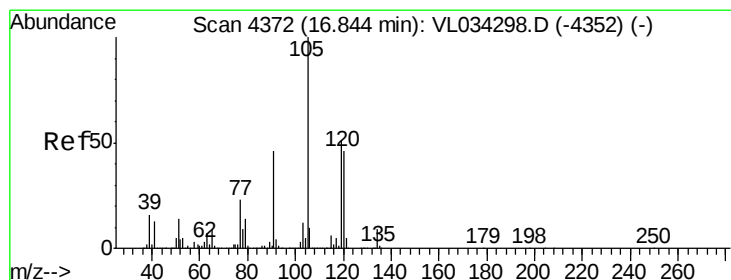
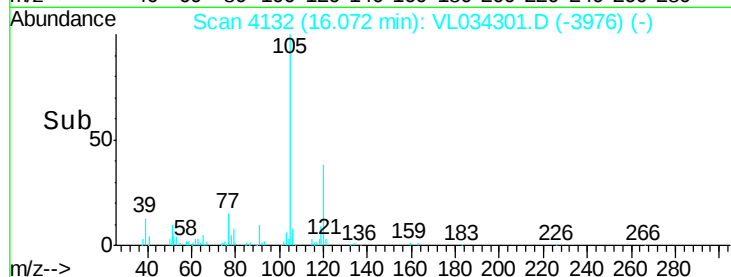
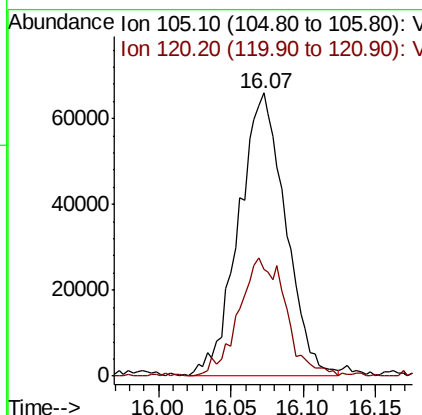
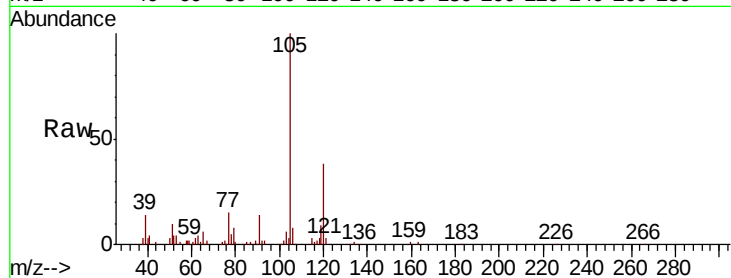
#73
 1,3,5-Trimethylbenzene
 Concen: 0.455 ppbv
 RT: 16.07 min Scan# 4132
 Delta R.T. -0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
120	38.1	35.2	52.8

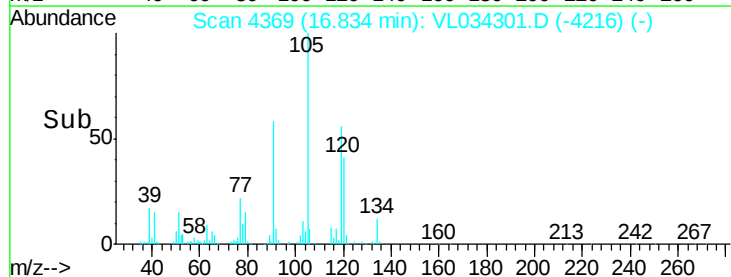
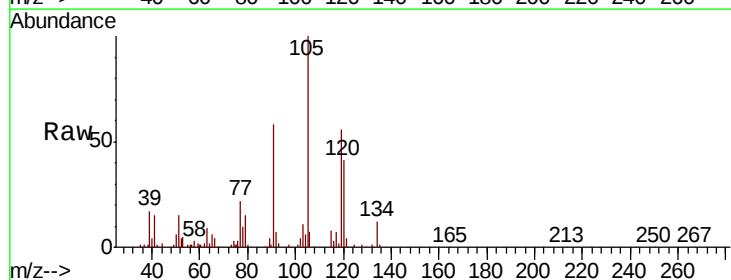
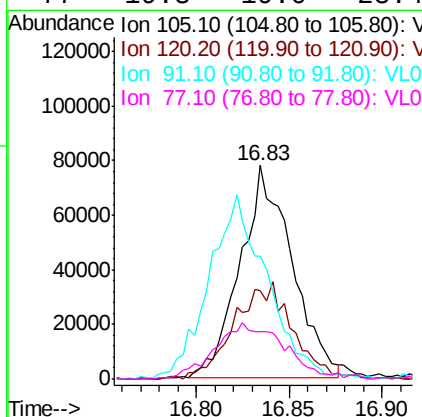
Manual Integrations
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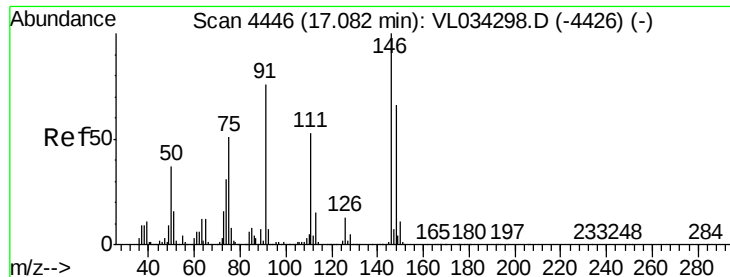
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.440 ppbv
 RT: 16.83 min Scan# 4369
 Delta R.T. -0.01 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	38.9	37.0	55.6
91	56.0	38.2	57.2
77	19.3	19.0	28.4





#75

1,3-Dichlorobenzene

Concen: 0.548 ppbv m

RT: 17.08 min Scan# 4445

Delta R.T. -0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

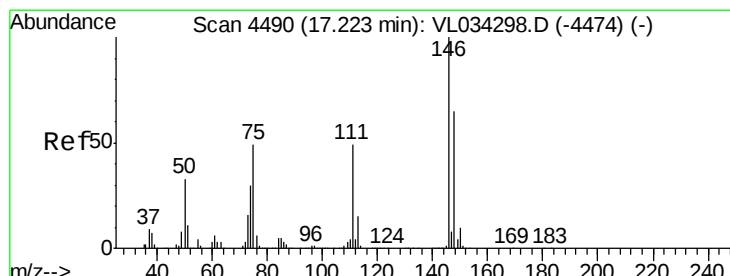
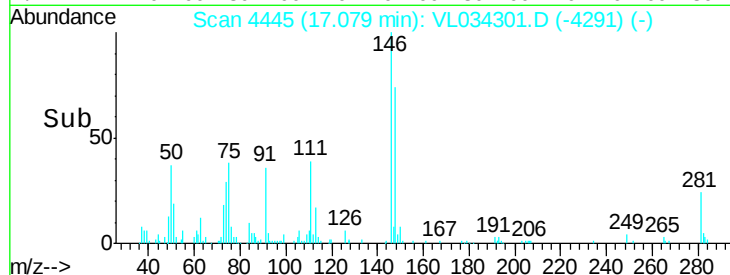
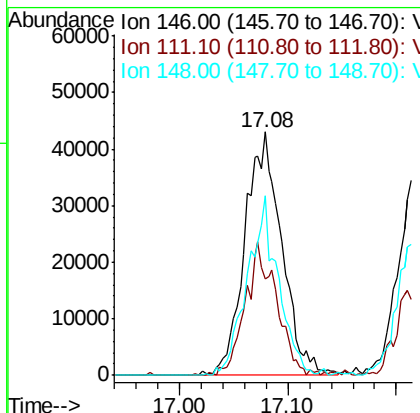
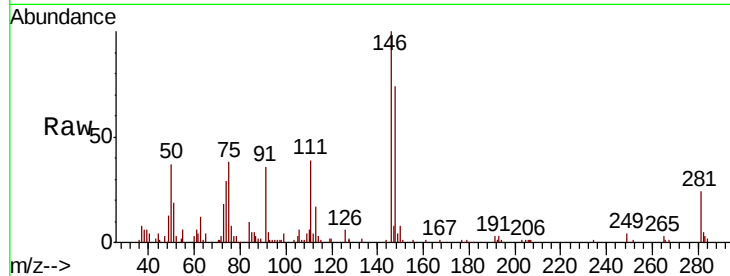
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	101114
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.5	73.5#
148	61.8	32.3	96.8

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 0.497 ppbv m

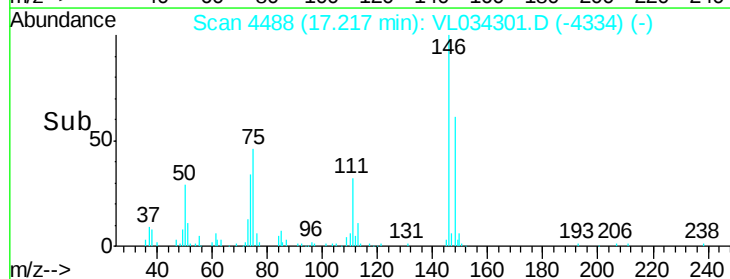
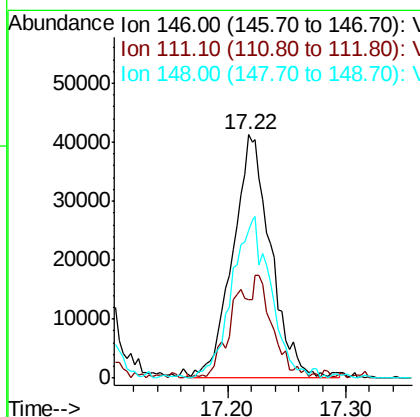
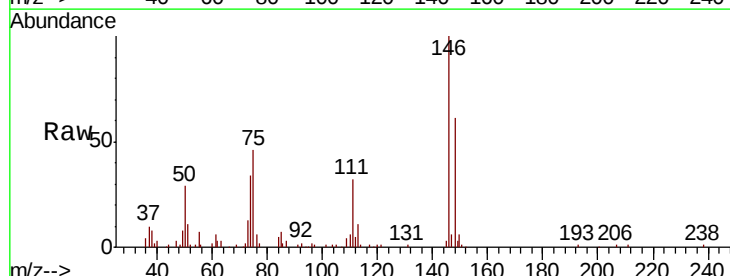
RT: 17.22 min Scan# 4488

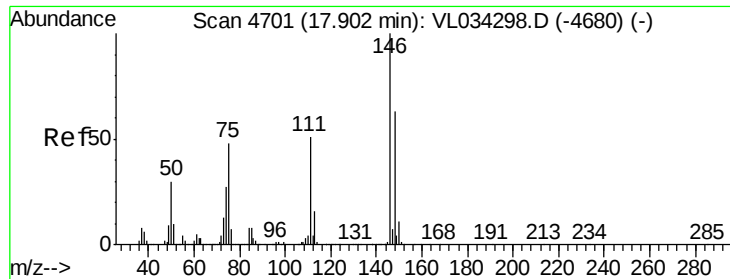
Delta R.T. -0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion:	146	Resp:	93839
Ion Ratio	Lower	Upper	
146	100		
111	43.9	23.9	71.7
148	67.6	33.1	99.2





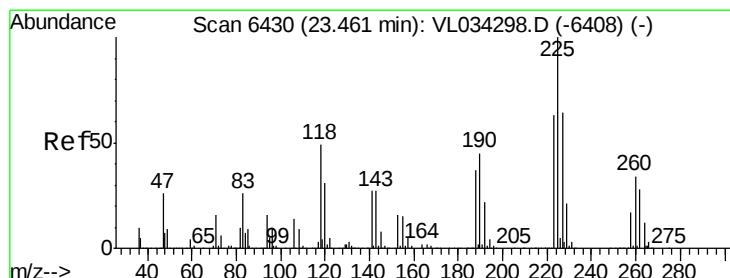
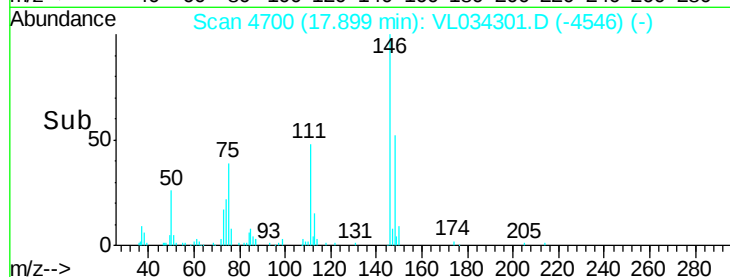
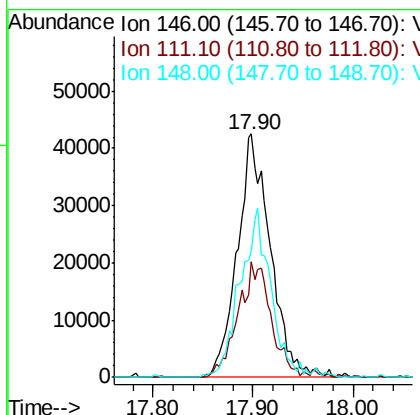
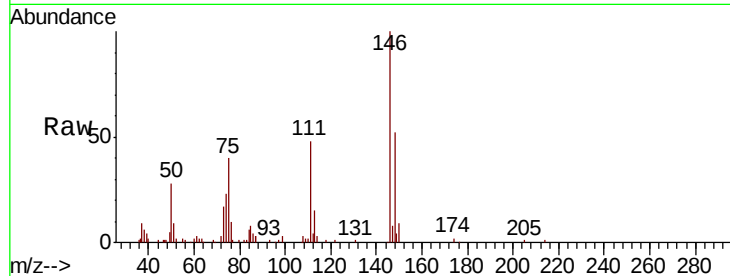
#77
 1,2-Dichlorobenzene
 Concen: 0.522 ppbv m
 RT: 17.90 min Scan# 4700
 Delta R.T. -0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.1	75.3#
148	65.3	32.3	96.8

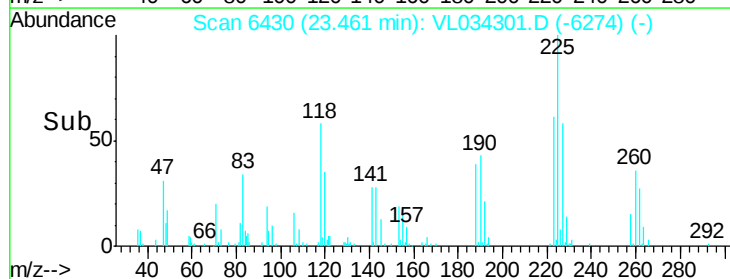
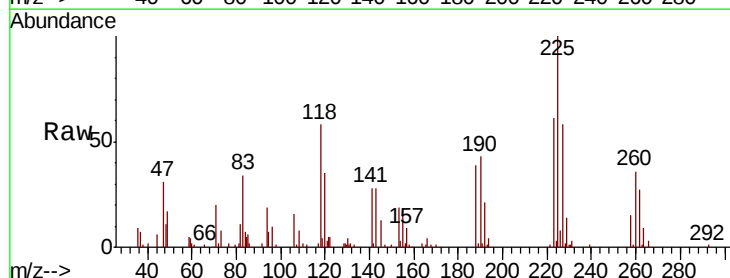
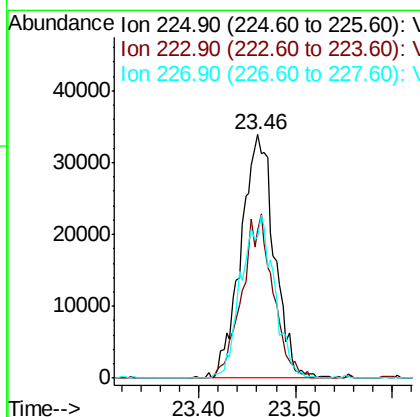
Manual Integrations
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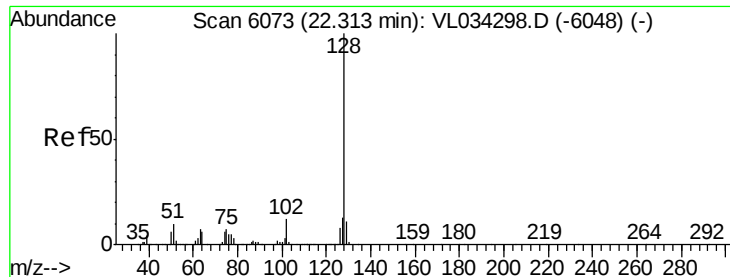
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.654 ppbv m
 RT: 23.46 min Scan# 6430
 Delta R.T. -0.00 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.8	76.2
227	66.0	51.5	77.3





#79

Naphthalene

Concen: 0.297 ppbv m

RT: 22.32 min Scan# 6074

Delta R.T. 0.00 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Instrument :

MSVOA_L

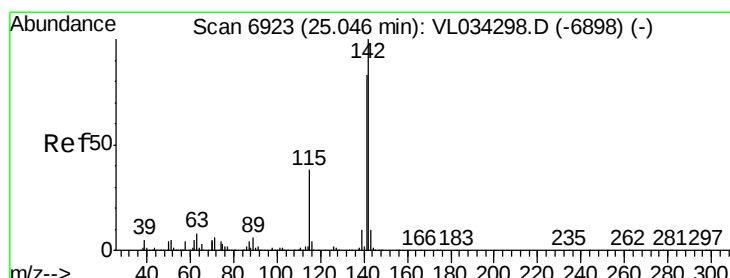
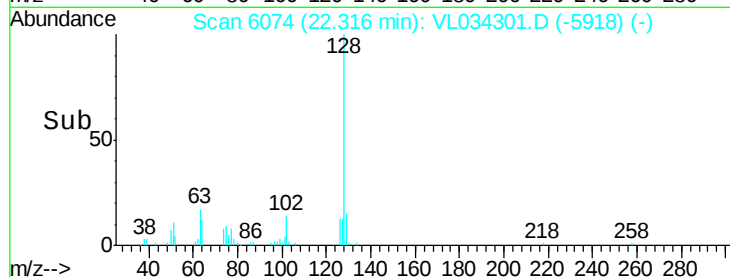
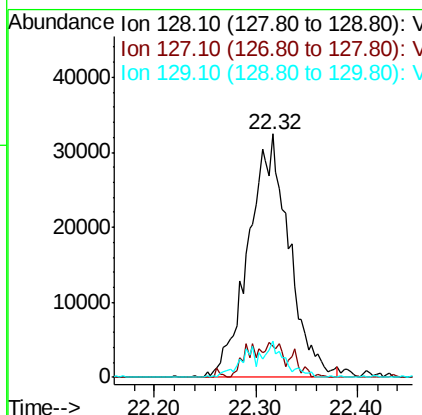
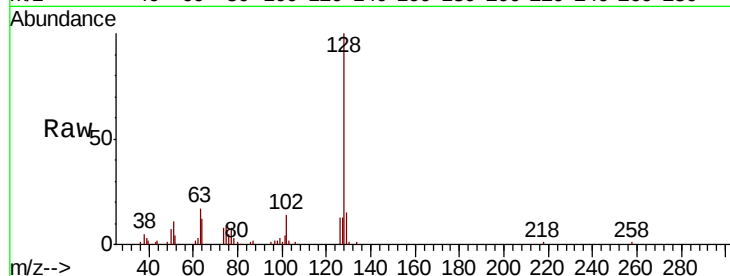
ClientSampleId :

VSTDIC0.5

Tot Ion:	128	Resp:	89916
Ion Ratio		Lower	Upper
128	100		
127	13.0	10.2	15.4
129	15.1	8.9	13.3#

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.121 ppbv

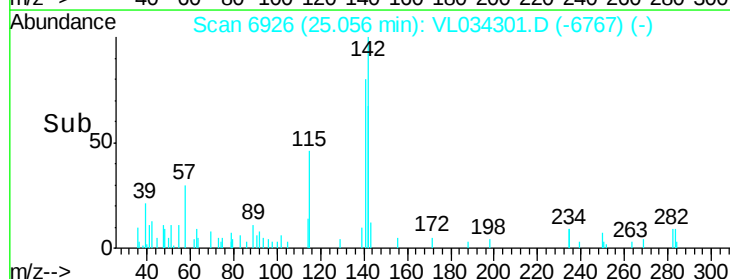
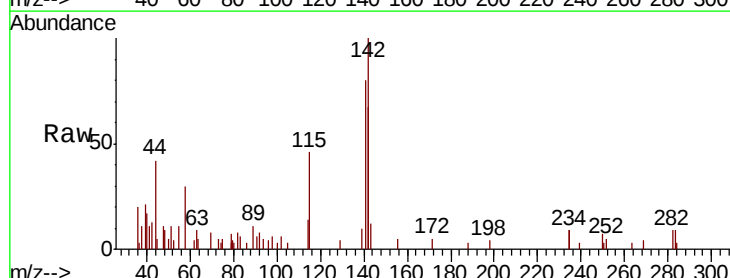
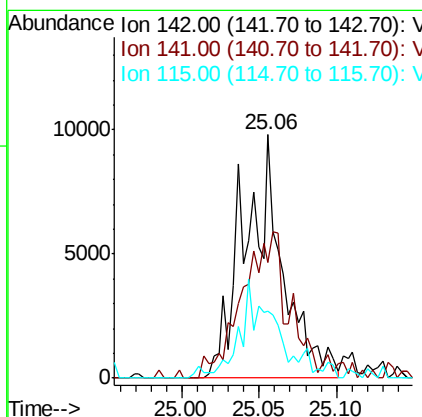
RT: 25.06 min Scan# 6926

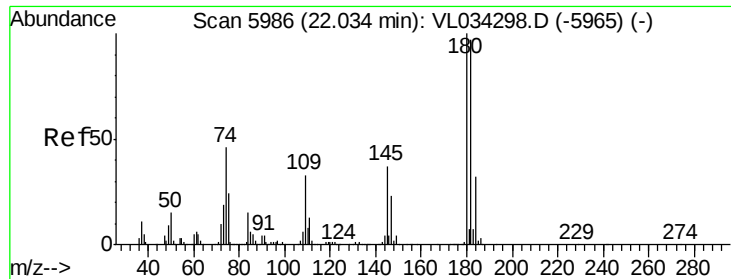
Delta R.T. 0.01 min

Lab File: VL034301.D

Acq: 16 Oct 2019 14:49

Tgt Ion:	142	Resp:	17055
Ion Ratio		Lower	Upper
142	100		
141	77.6	65.7	98.5
115	38.5	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.397 ppbv m
 RT: 22.04 min Scan# 5988
 Delta R.T. 0.01 min
 Lab File: VL034301.D
 Acq: 16 Oct 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.8	116.8#
184	0.0	25.4	38.2#

Manual Integrations
 APPROVED

MMDadoda
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