

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034300.D
 Acq On : 16 Oct 2019 14:11
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:03:52 PM

Quant Time: Oct 16 17:06:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 17:06:39 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	1212073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2296474	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2322712	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1998817	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	188692	1.054	ppbv	95
3) Chlorodifluoromethane	2.97	51	149308	1.051	ppbv	99
4) Chloromethane	3.12	50	85704	1.026	ppbv	95
5) Vinyl Chloride	3.24	62	74091	0.971	ppbv	97
6) Bromomethane	3.46	94	39459	1.108	ppbv	99
7) Chloroethane	3.55	64	27493	1.031	ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	195437	1.237	ppbv	95
9) Propene	2.99	41	61968	0.884	ppbv	96
10) Heptane	8.17	43	162001	0.887	ppbv	95
11) Trichlorofluoromethane	3.94	101	206051	1.264	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	131431	1.232	ppbv	98
13) Ethanol	3.60	45	17478m	1.029	ppbv	
14) Bromoethene	3.73	108	50048	1.148	ppbv	95
15) Acetone	3.85	43	192256	1.183	ppbv	98
16) 1,3-Butadiene	3.31	39	73706	1.040	ppbv	100
17) tert-Butyl alcohol	4.30	59	125678	1.221	ppbv	97
18) 1,1-Dichloroethene	4.29	96	55736	1.198	ppbv	95
19) Isopropyl Alcohol	3.97	45	116698m	1.168	ppbv	
20) Methylene Chloride	4.35	84	70968	1.515	ppbv	93
21) Allyl Chloride	4.41	41	94065	1.025	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	56353	1.211	ppbv	95
23) Vinyl Acetate	5.09	43	215362	0.900	ppbv #	96
24) 1,1-Dichloroethane	5.02	63	164765	1.022	ppbv	99
25) Ethyl Acetate	5.70	43	297679	0.969	ppbv	99
26) Hexane	5.71	57	133773m	1.047	ppbv	
27) Carbon Disulfide	4.56	76	116079	0.985	ppbv #	92
28) Methyl tert-Butyl Ether	5.05	73	192443	1.014	ppbv	96
29) Chloroform	5.77	83	196889	1.078	ppbv	92
30) Cyclohexane	7.17	84	87640m	0.950	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	125523	0.964	ppbv	89
32) 1,1,1-Trichloroethane	6.54	97	184467	1.047	ppbv	97
34) 2-Butanone	5.26	43	189013	0.806	ppbv	100
35) Carbon Tetrachloride	7.05	117	192271	1.008	ppbv	92
36) Benzene	6.92	78	228556	0.901	ppbv	98
37) 1,2-Dichloroethane	6.33	62	168878	0.936	ppbv	99
38) Trichloroethene	7.88	130	86639	0.956	ppbv	95
39) 1,2-Dichloropropane	7.65	63	95506	0.838	ppbv	87
40) 1,4-Dioxane	7.90	88	38511m	1.044	ppbv	
41) Tetrahydrofuran	6.08	42	100252m	0.759	ppbv	
42) Bromodichloromethane	7.83	83	199878	0.923	ppbv #	97
43) Methyl Methacrylate	8.05	69	90949m	0.868	ppbv	

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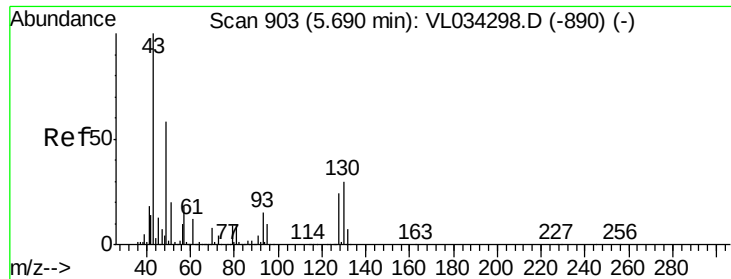
Manual Integrations
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Quant Time: Oct 16 17:06:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 16 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	427395	0.875	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	94846	0.766	ppbv	94
46) cis-1,3-Dichloropropene	8.75	75	115767	0.777	ppbv	92
47) 1,1,2-Trichloroethane	9.53	97	95007	0.928	ppbv	88
48) Dibromochloromethane	10.36	129	147205	0.908	ppbv	99
49) Bromoform	13.11	173	131849	1.005	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	273413	0.801	ppbv	97
51) 2-Hexanone	10.20	43	215836m	0.754	ppbv	
52) Tetrachloroethene	11.29	164	84563m	1.009	ppbv	
53) Toluene	9.86	91	241544	0.871	ppbv	99
54) 1,2-Dibromoethane	10.67	107	140997m	0.927	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.19	131	112762m	1.089	ppbv	
57) Chlorobenzene	12.21	112	212067m	1.049	ppbv	
58) Ethyl Benzene	12.77	91	344504	0.919	ppbv #	87
59) m/p-Xylene	13.03	91	602320m	1.940	ppbv	
60) o-Xylene	13.76	91	299741	0.966	ppbv	96
61) Styrene	13.60	104	203295	0.914	ppbv	98
62) Isopropylbenzene	14.74	105	403606m	1.004	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.75	83	225857	0.887	ppbv	98
64) n-propylbenzene	15.63	120	101818m	1.002	ppbv	
65) tert-Butylbenzene	16.82	119	352303m	1.003	ppbv	
66) Benzyl Chloride	17.07	91	109114m	0.878	ppbv	
67) sec-Butylbenzene	17.37	105	507109m	1.010	ppbv	
69) p-Isopropyltoluene	17.73	119	401961	0.989	ppbv	98
70) n-Butylbenzene	18.63	91	442677	0.935	ppbv	97
71) 2-Chlorotoluene	15.53	91	297194	0.905	ppbv	98
72) 4-Ethyltoluene	15.91	105	337140	0.961	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	339179	1.001	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	357193m	0.993	ppbv	
75) 1,3-Dichlorobenzene	17.08	146	214208m	1.110	ppbv	
76) 1,4-Dichlorobenzene	17.22	146	204989m	1.037	ppbv	
77) 1,2-Dichlorobenzene	17.90	146	208959m	1.070	ppbv	
78) Hexachloro-1,3-Butadiene	23.46	225	176508m	1.364	ppbv	
79) Naphthalene	22.31	128	240575m	0.760	ppbv	
80) Naphthalene, 2-methyl-	25.05	142	39729	0.270	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	165214m	0.942	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1212073

Ion Ratio Lower Upper

49 100

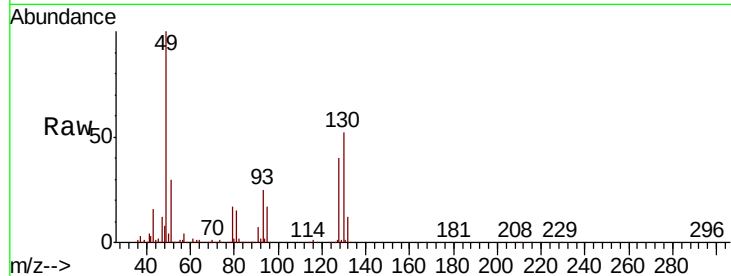
128 41.7 20.6 61.8

130 52.8 26.2 78.5

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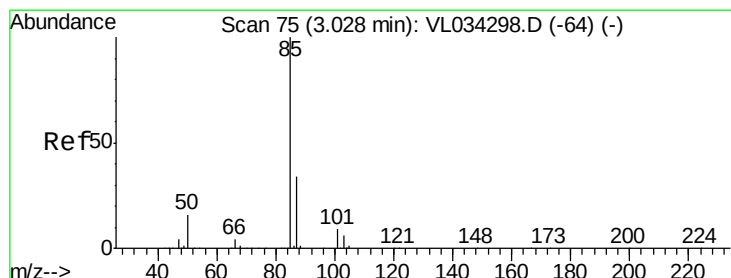
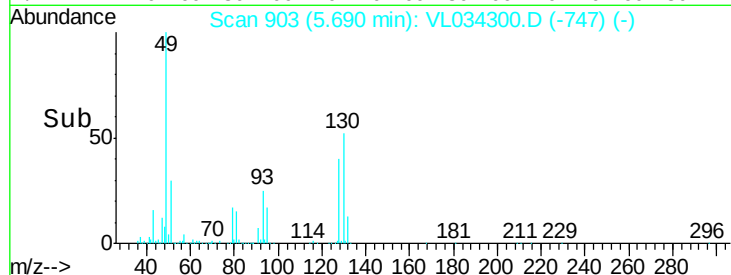
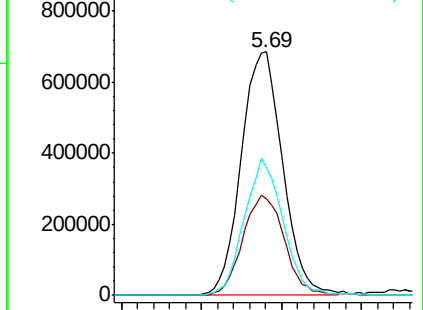
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.054 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL034300.D

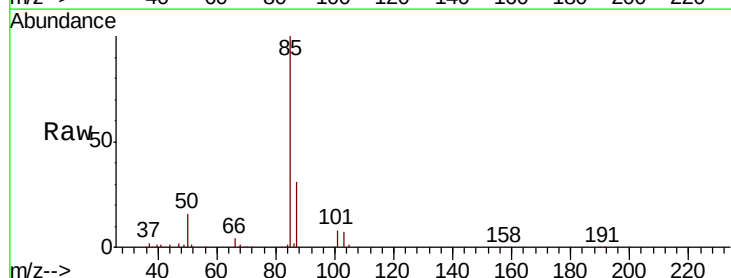
Acq: 16 Oct 2019 14:11

Tgt Ion: 85 Resp: 188692

Ion Ratio Lower Upper

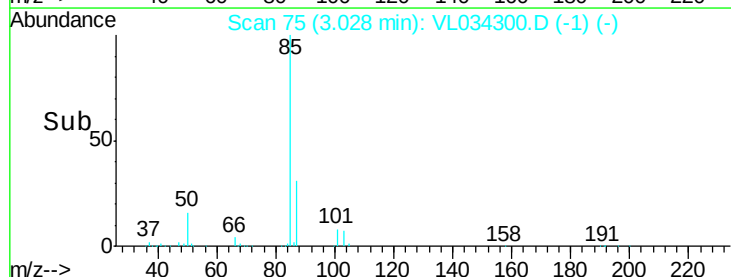
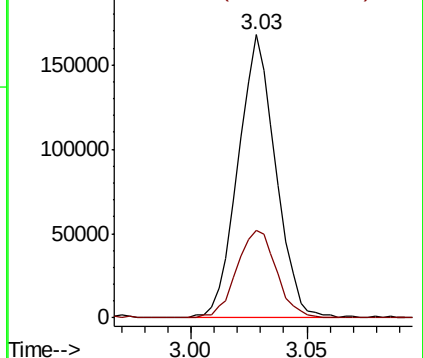
85 100

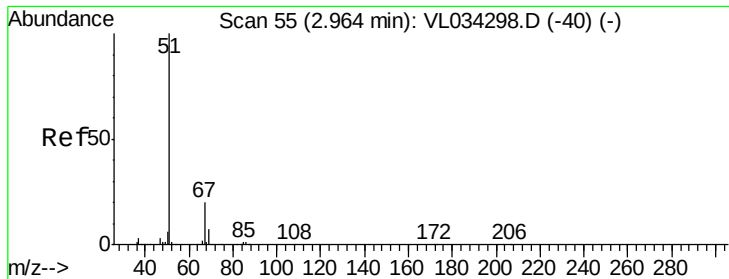
87 31.0 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.051 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 149308

Ion Ratio Lower Upper

51 100

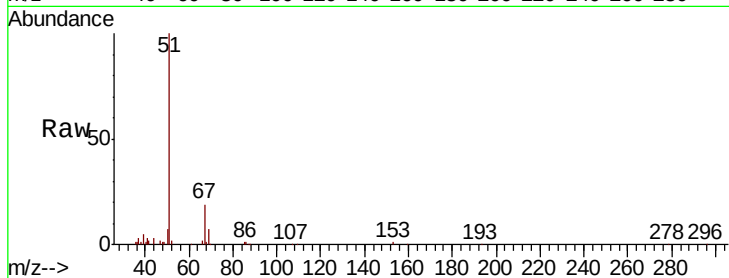
67 19.4 15.8 23.8

Manual Integrations

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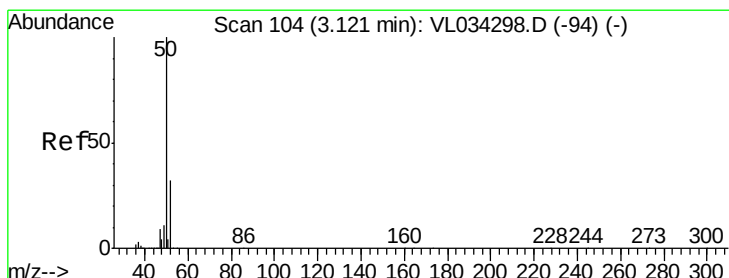
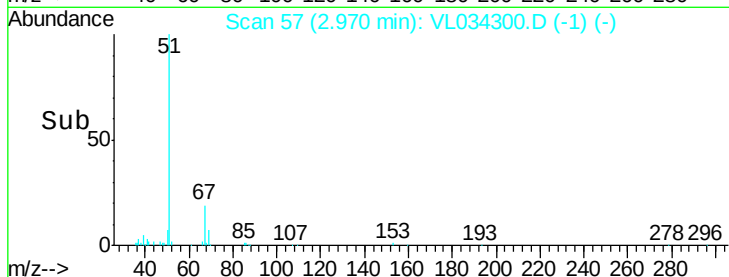
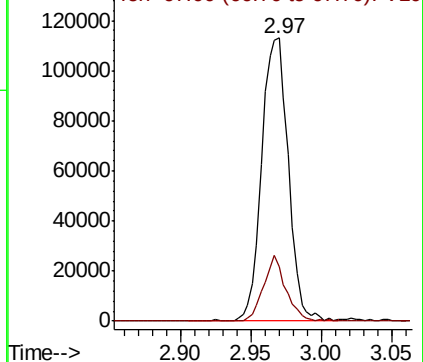
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.026 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL034300.D

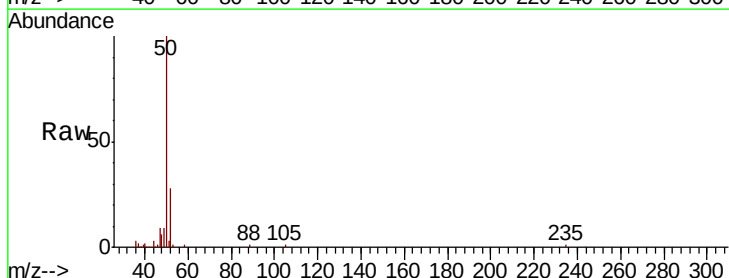
Acq: 16 Oct 2019 14:11

Tgt Ion: 50 Resp: 85704

Ion Ratio Lower Upper

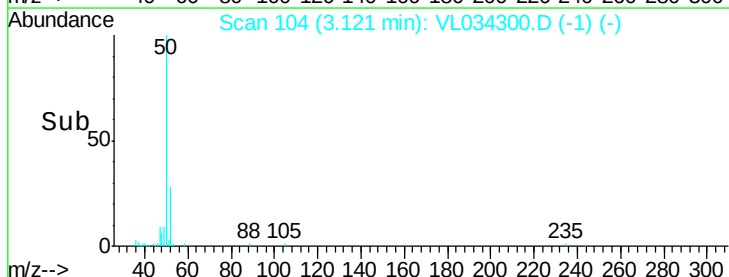
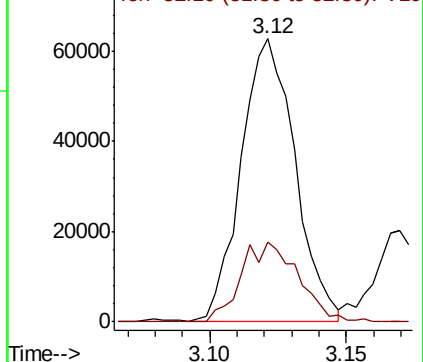
50 100

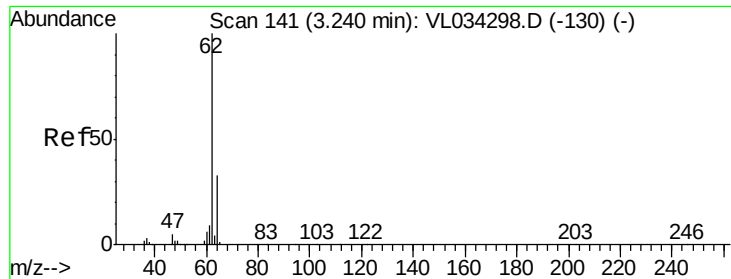
52 29.1 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.971 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 74091

Ion Ratio Lower Upper

62 100

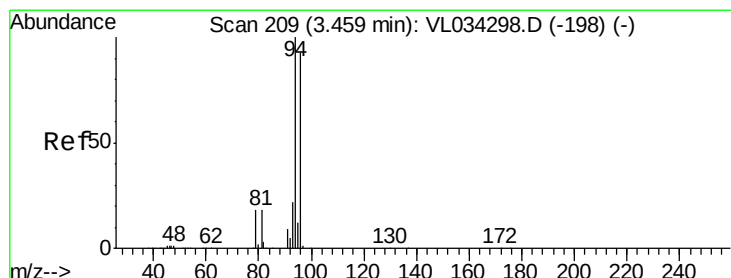
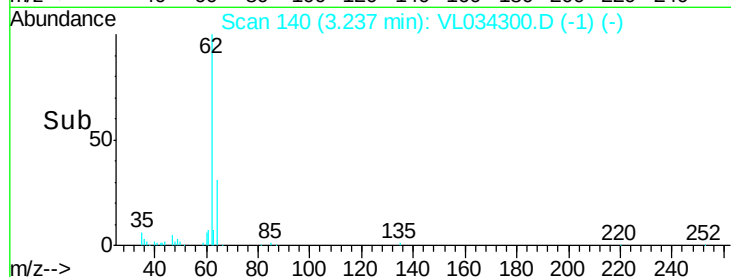
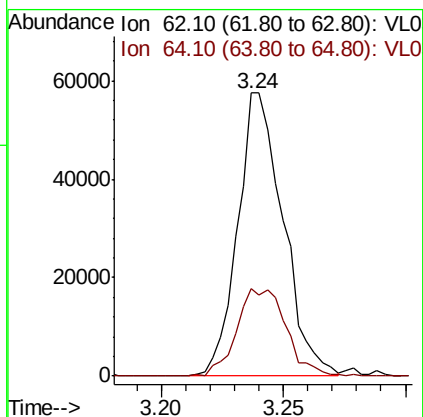
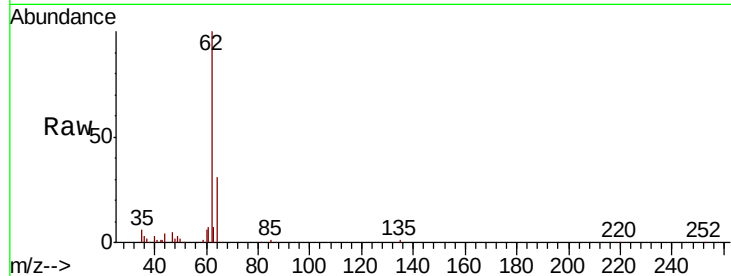
64 30.8 26.0 39.0

Manual Integrations

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#6

Bromomethane

Concen: 1.108 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034300.D

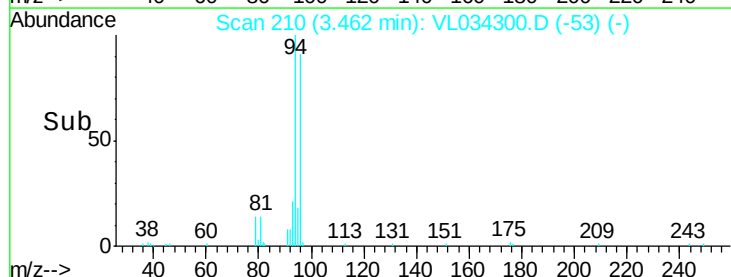
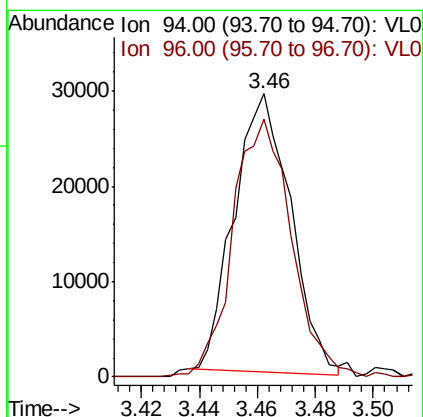
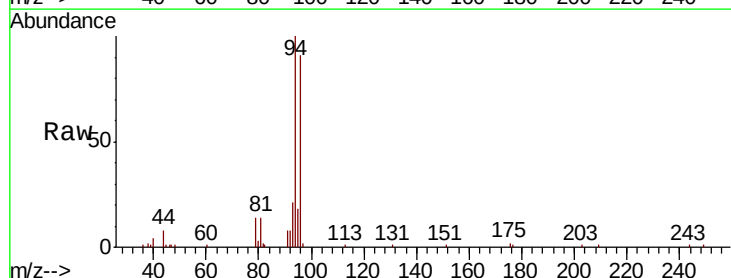
Acq: 16 Oct 2019 14:11

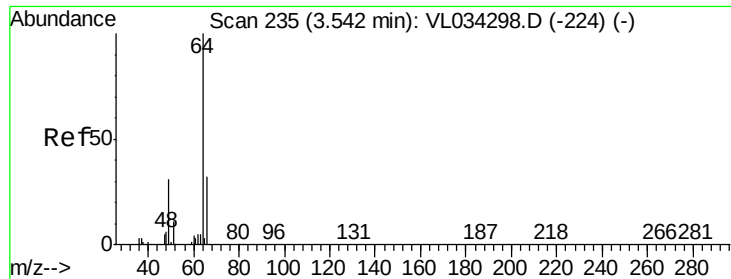
Tgt Ion: 94 Resp: 39459

Ion Ratio Lower Upper

94 100

96 92.8 74.6 112.0





#7

Chloroethane

Concen: 1.031 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 27493

Ion Ratio Lower Upper

64 100

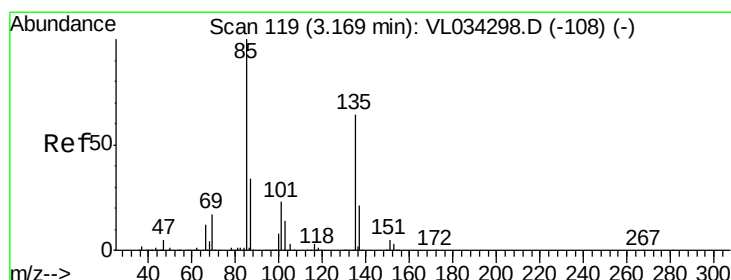
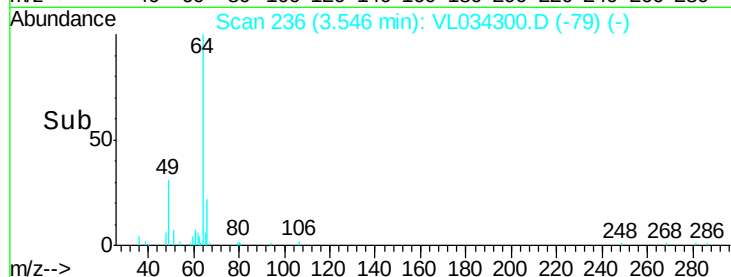
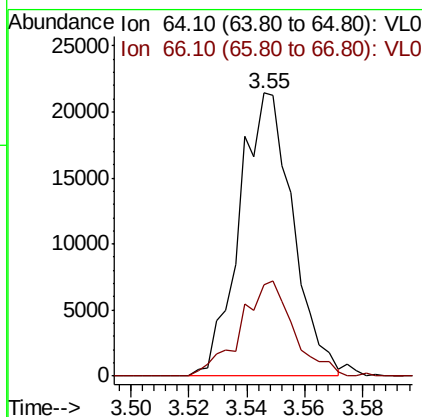
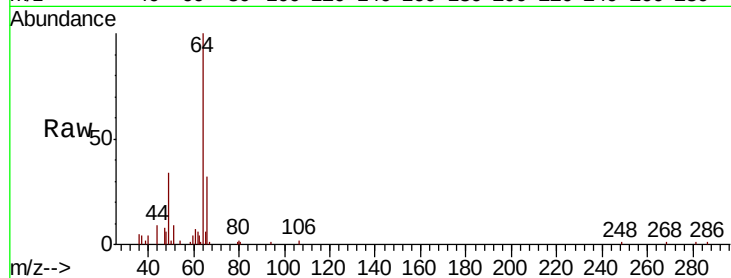
66 32.3 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.237 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL034300.D

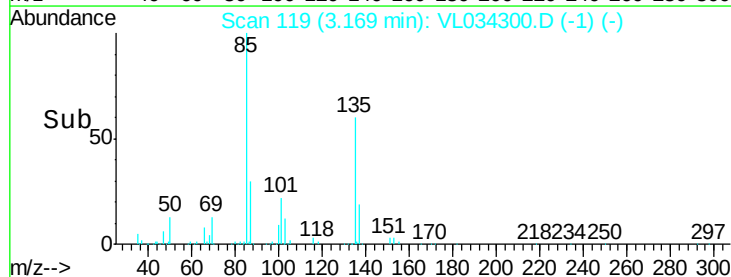
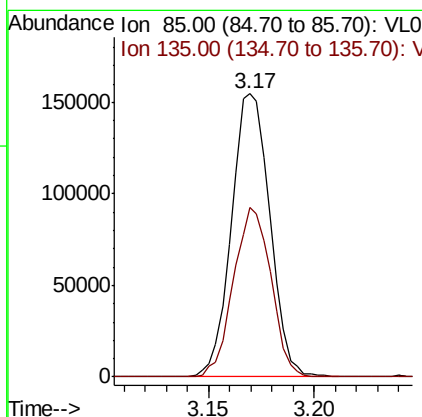
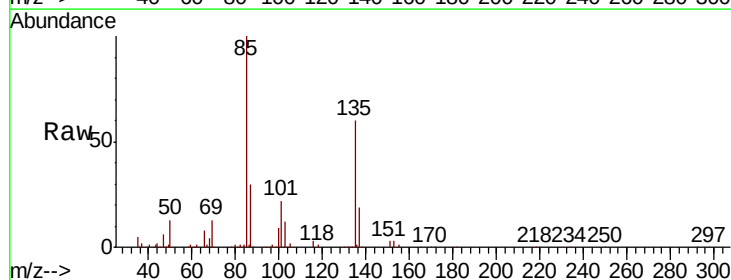
Acq: 16 Oct 2019 14:11

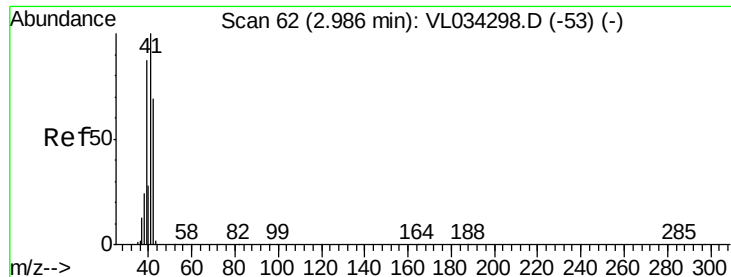
Tgt Ion: 85 Resp: 195437

Ion Ratio Lower Upper

85 100

135 58.5 50.2 75.2





#9

Propene

Concen: 0.884 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 61968

Ion Ratio Lower Upper

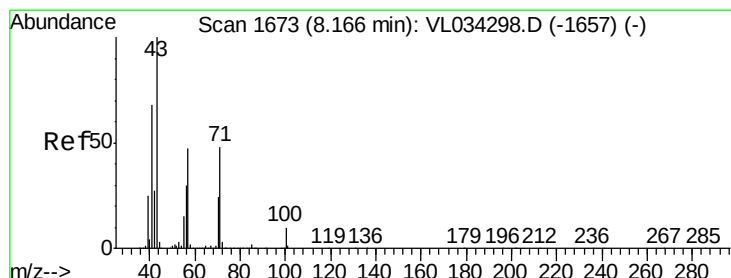
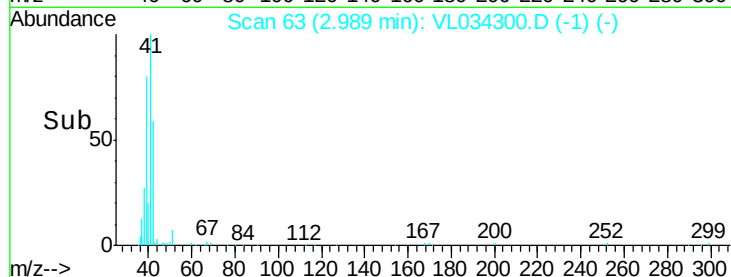
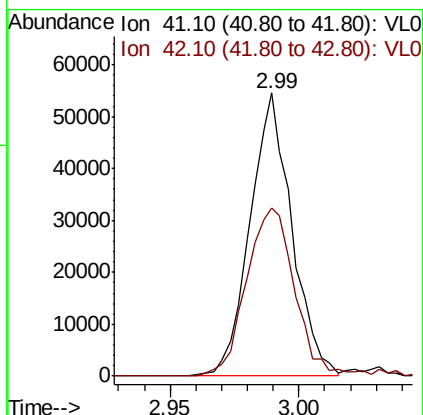
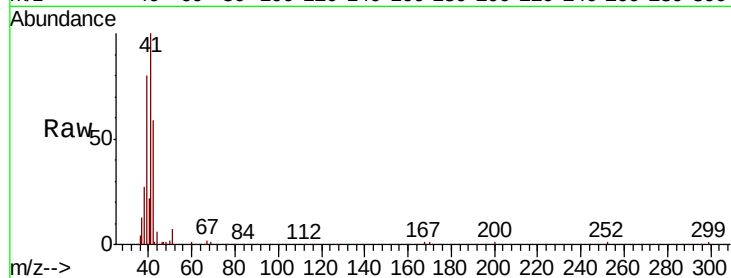
41 100

42 70.4 53.9 80.9

Manual Integrations
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#10

Heptane

Concen: 0.887 ppbv

RT: 8.17 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VL034300.D

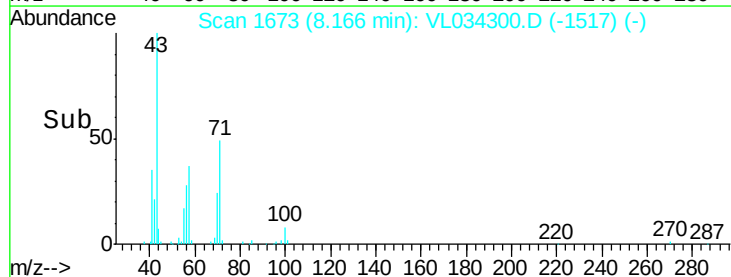
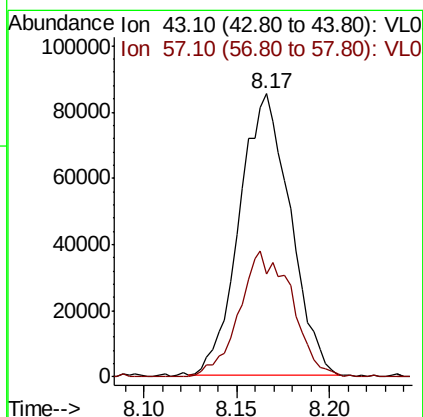
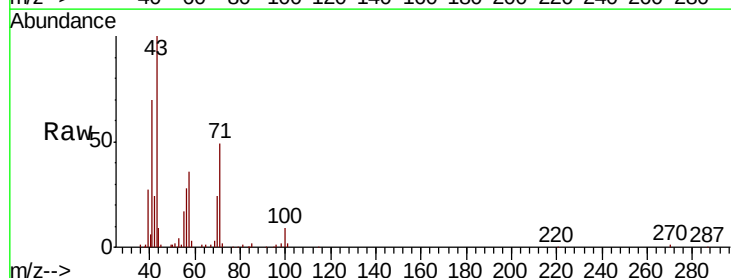
Acq: 16 Oct 2019 14:11

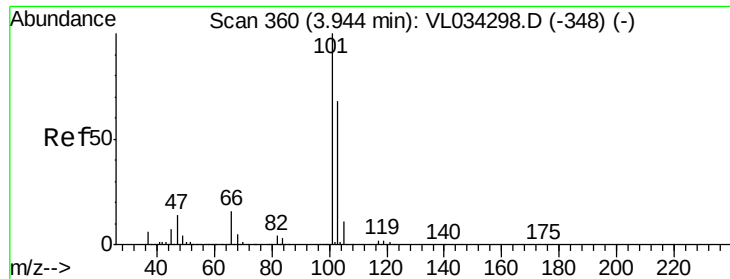
Tgt Ion: 43 Resp: 162001

Ion Ratio Lower Upper

43 100

57 46.3 39.5 59.3





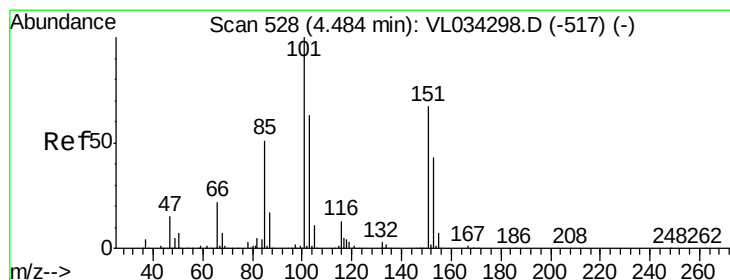
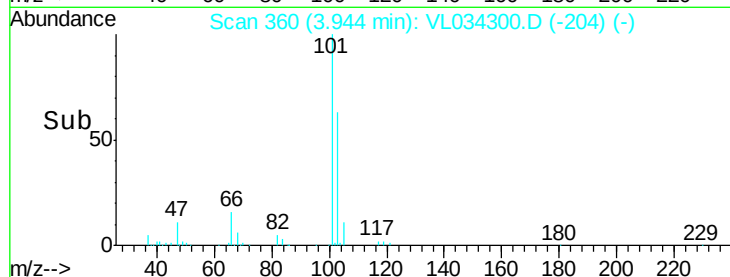
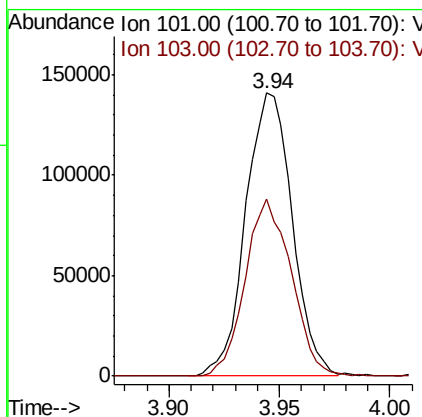
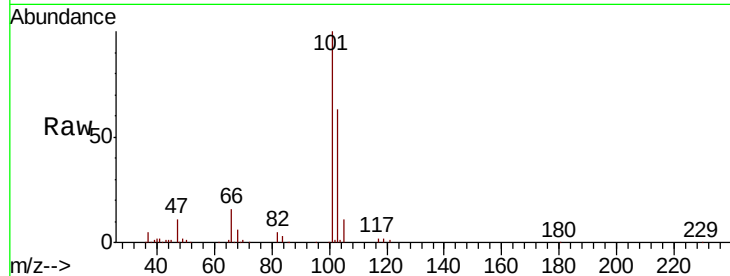
#11
 Trichlorofluoromethane
 Concen: 1.264 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.8	54.5	81.7

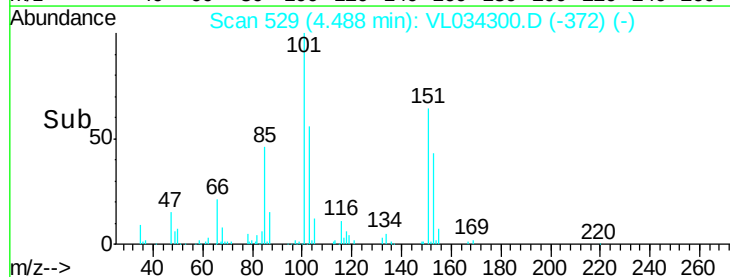
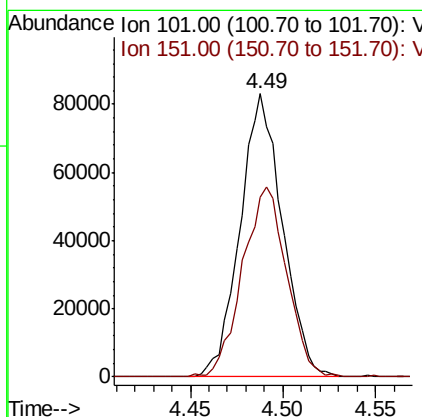
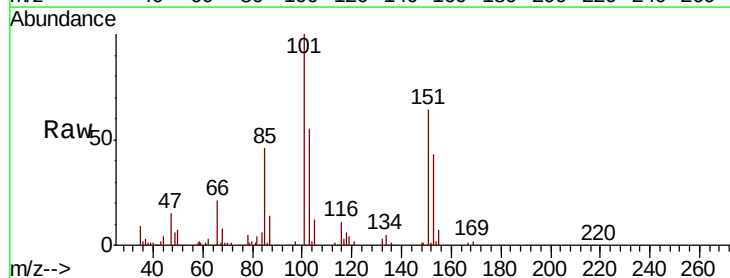
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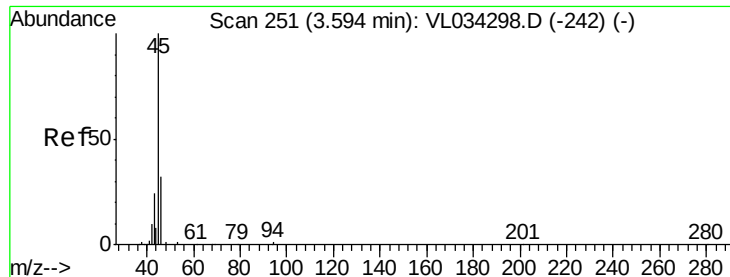
MMDadoda
 10/18/2019 3:03:52 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.232 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
101	100		
151	70.1	57.4	86.2





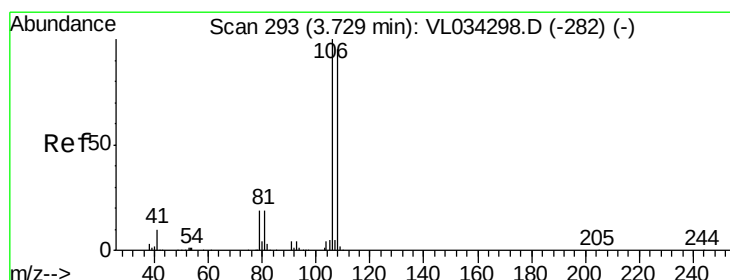
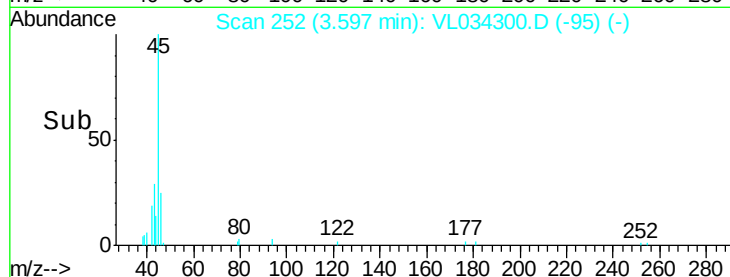
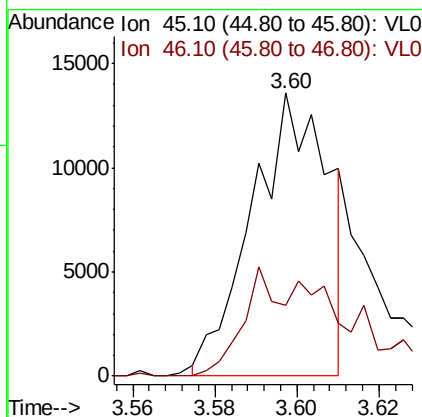
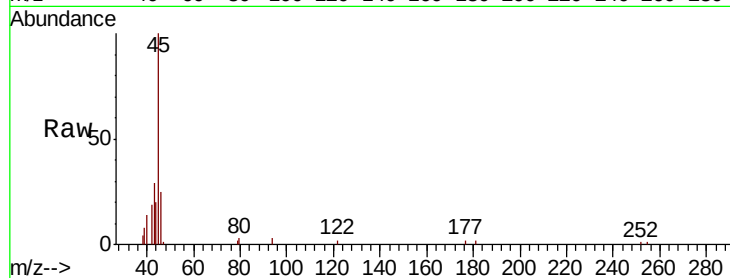
#13
Ethanol
Concen: 1.029 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
45	100		
46	52.1	15.8	63.2

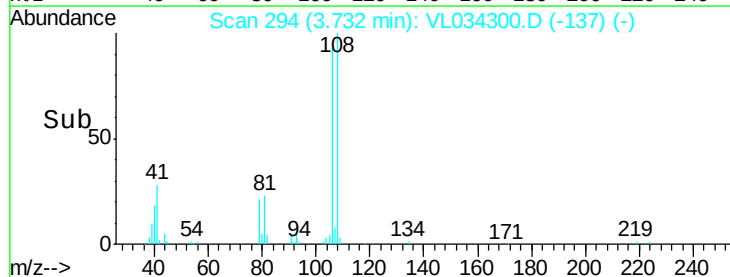
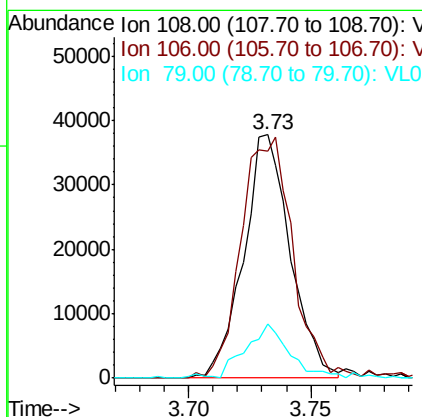
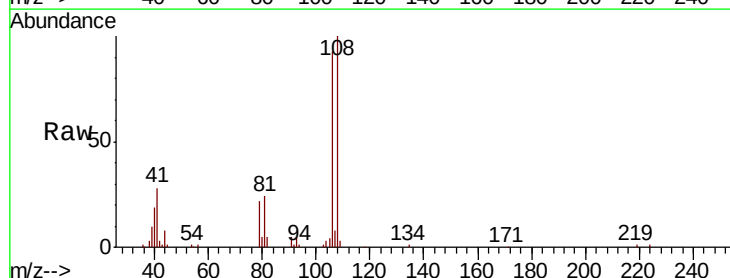
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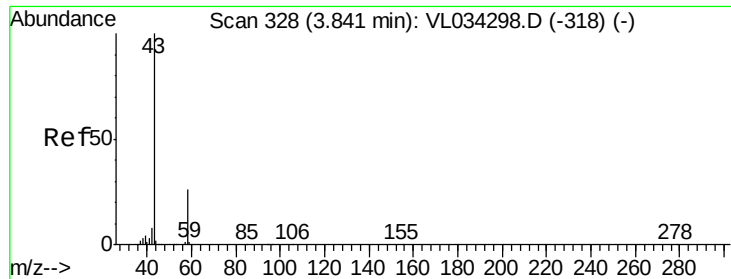
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10/18/2019 3:03:52 PM



#14
Bromoethene
Concen: 1.148 ppbv
RT: 3.73 min Scan# 294
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
108	100		
106	111.4	84.8	127.2
79	22.1	17.0	25.4





#15

Acetone

Concen: 1.183 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 192256

Ion Ratio Lower Upper

43 100

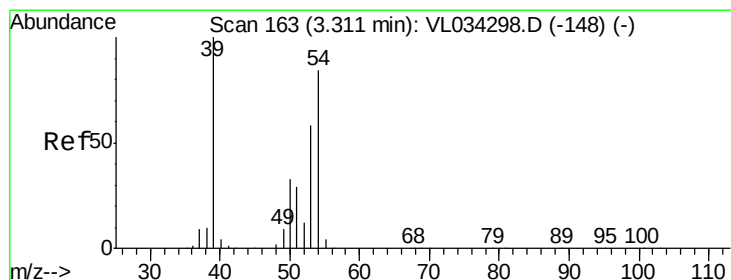
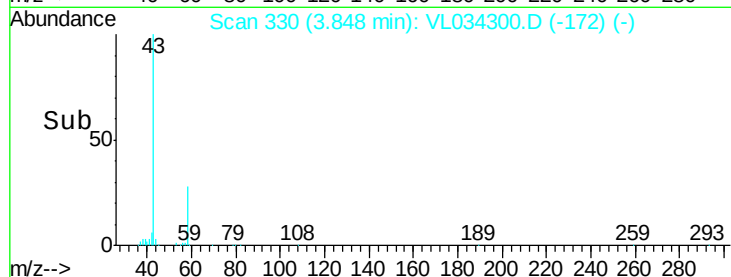
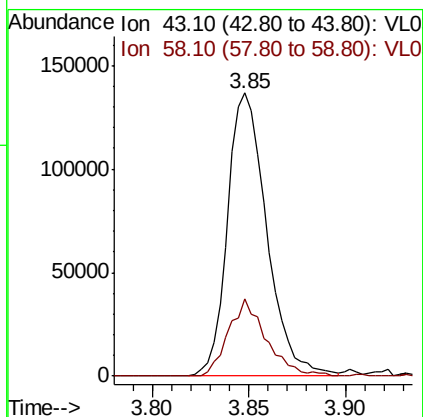
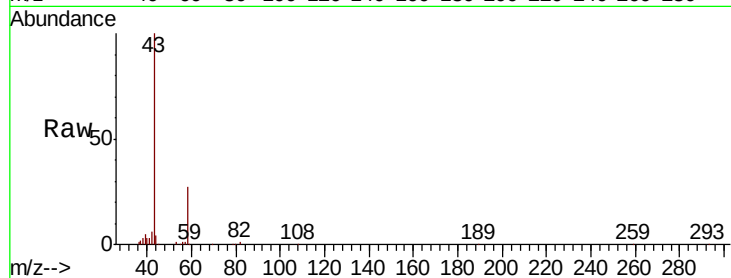
58 26.6 20.4 30.6

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#16

1,3-Butadiene

Concen: 1.040 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.00 min

Lab File: VL034300.D

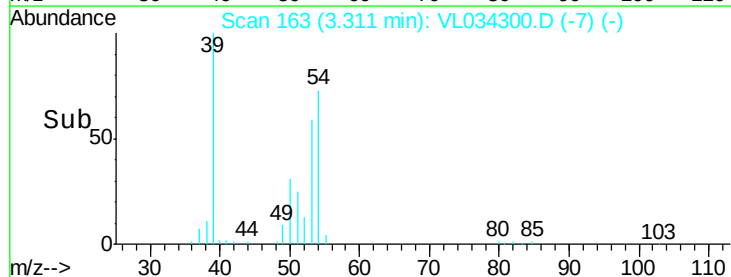
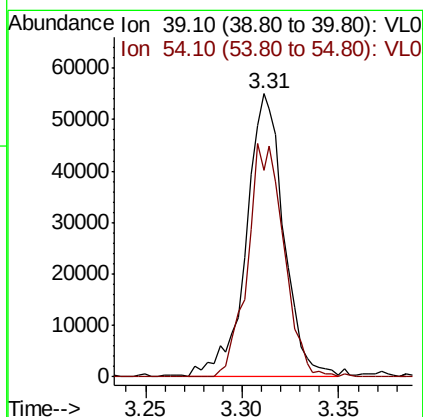
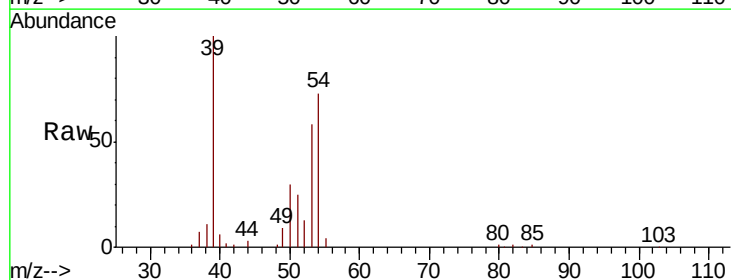
Acq: 16 Oct 2019 14:11

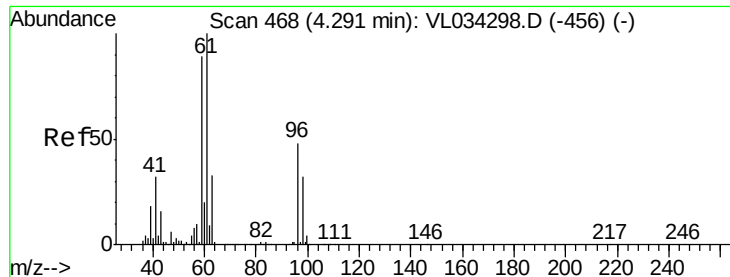
Tgt Ion: 39 Resp: 73706

Ion Ratio Lower Upper

39 100

54 80.1 63.9 95.9





#17

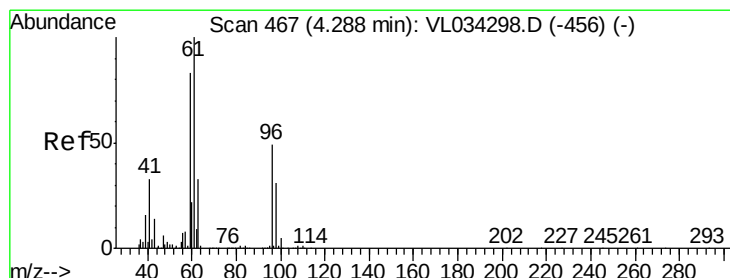
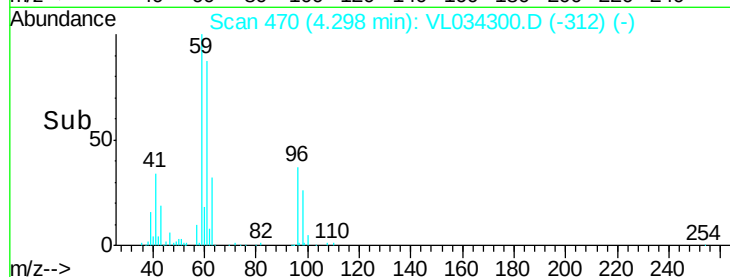
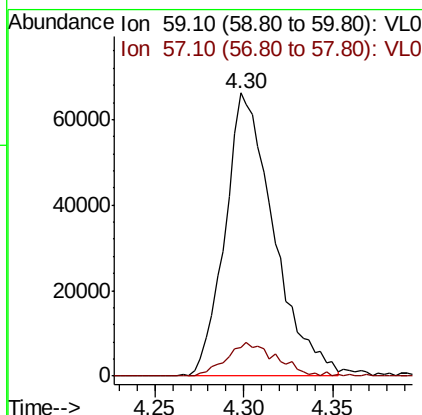
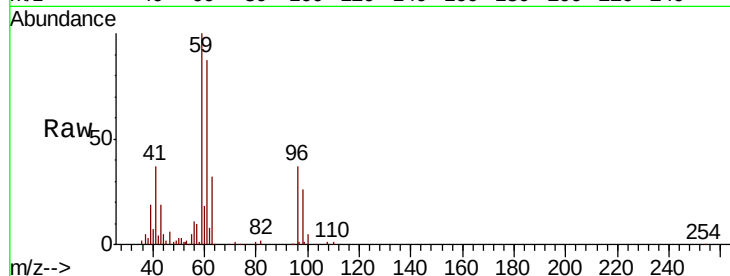
tert-Butyl alcohol
Concen: 1.221 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.01 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	59	Resp	125678
Ion Ratio	Lower	Upper	
59	100		
57	12.2	8.8	13.2

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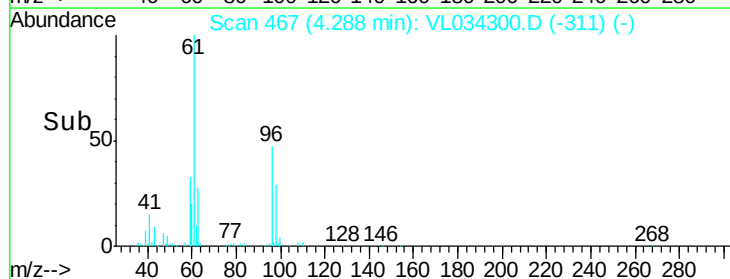
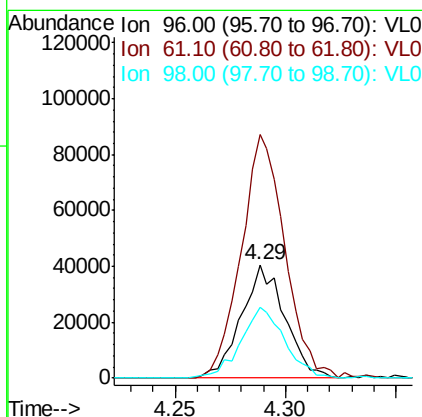
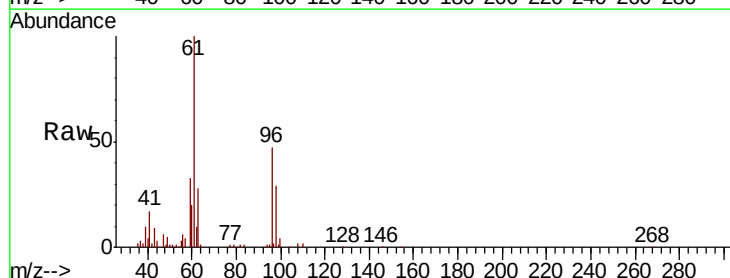
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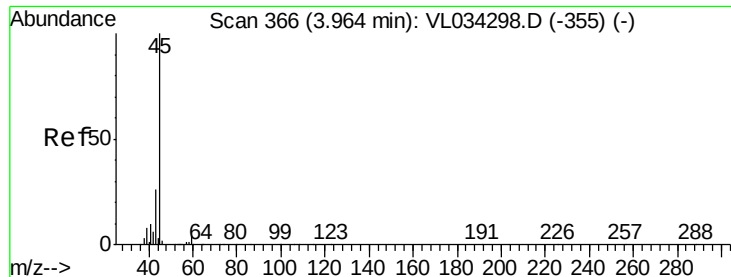


#18

1,1-Dichloroethene
Concen: 1.198 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	96	Resp	55736
Ion Ratio	Lower	Upper	
96	100		
61	214.1	164.5	246.7
98	62.0	51.7	77.5





#19

Isopropyl Alcohol

Concen: 1.168 ppbv m

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 116698

Ion Ratio Lower Upper

45 100

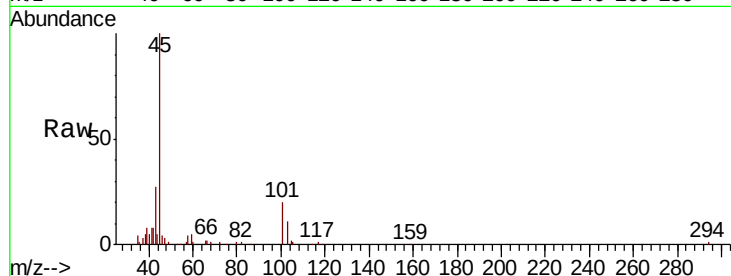
58 3.5 1.4 2.2#

Manual Integrations

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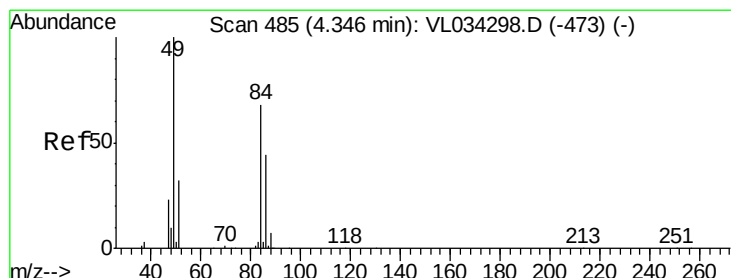
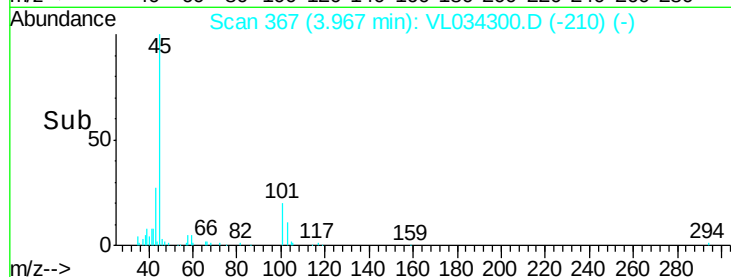
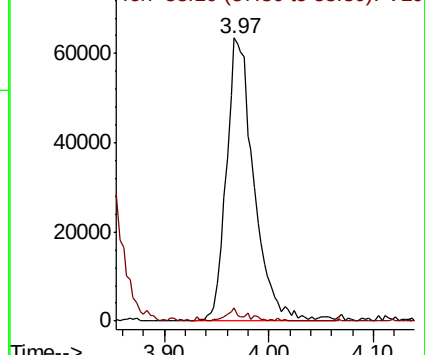
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.515 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion: 84 Resp: 70968

Ion Ratio Lower Upper

84 100

49 156.5 118.5 177.7

51 42.6 38.8 58.2

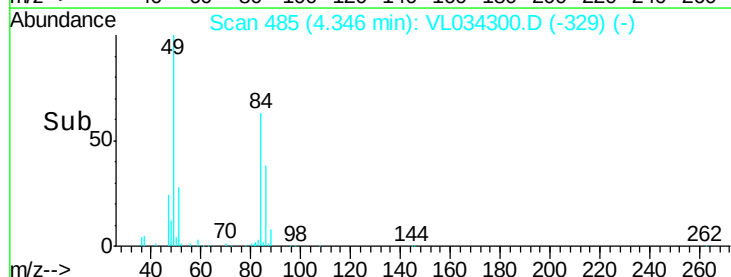
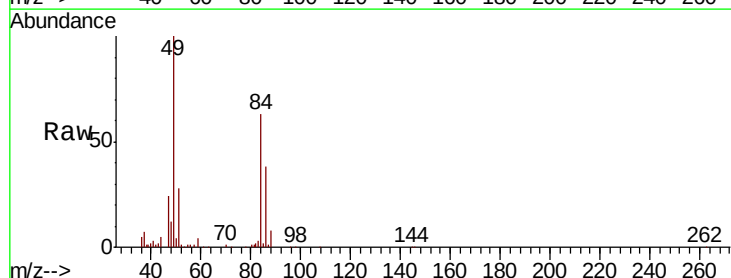
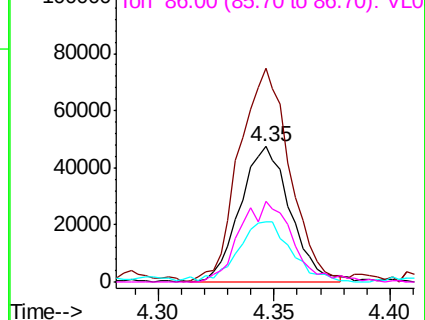
86 59.8 51.7 77.5

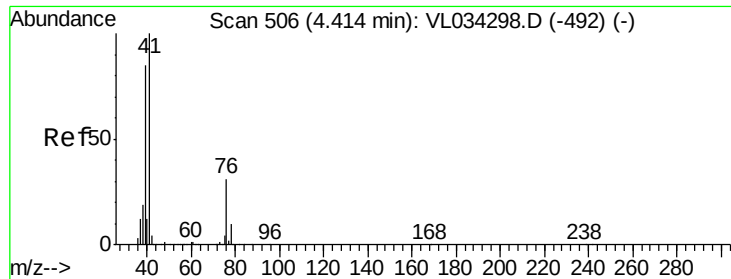
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





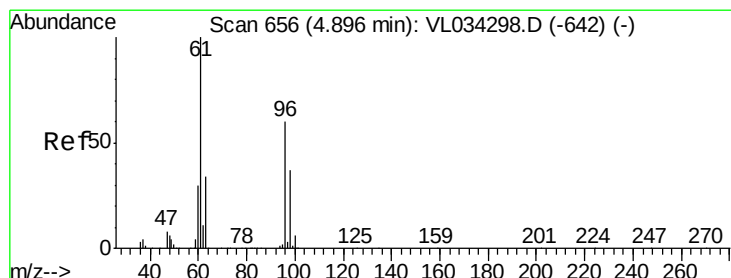
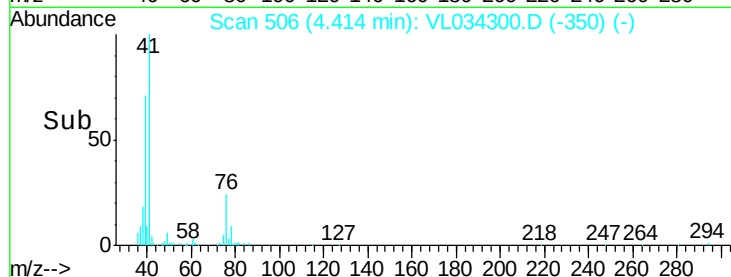
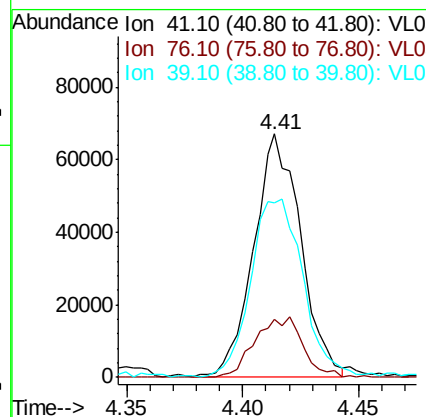
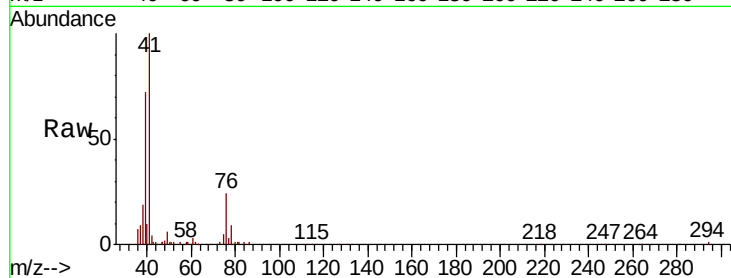
#21
Allvl Chloride
Concen: 1.025 ppbv
RT: 4.41 min Scan# 506
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	25.6	22.8	34.2
39	82.8	66.0	99.0

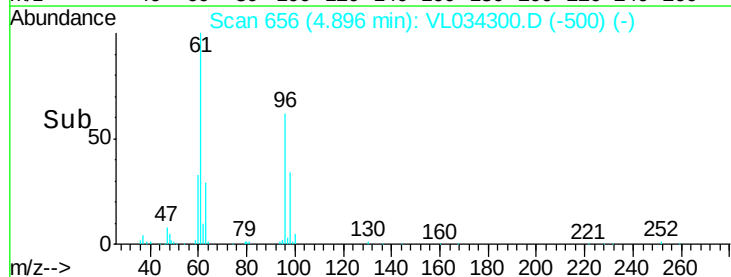
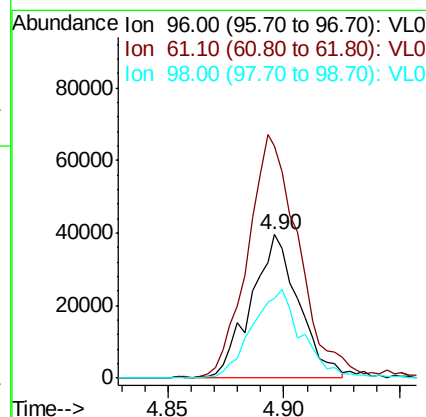
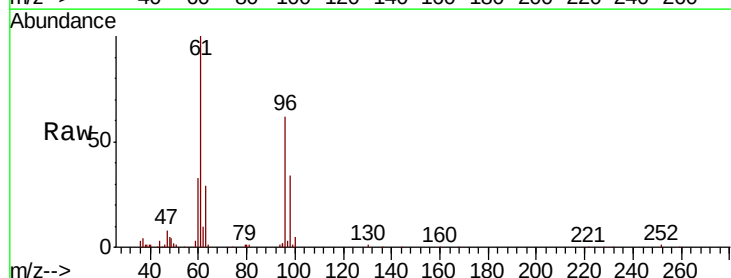
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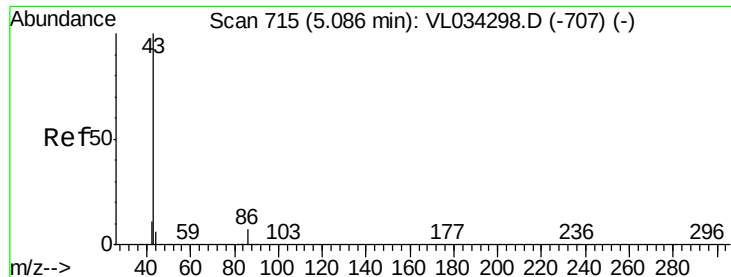
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#22
trans-1,2-Dichloroethene
Concen: 1.211 ppbv
RT: 4.90 min Scan# 656
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.8	133.8	200.6
98	55.5	49.4	74.0





#23

Vinyl Acetate

Concen: 0.900 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

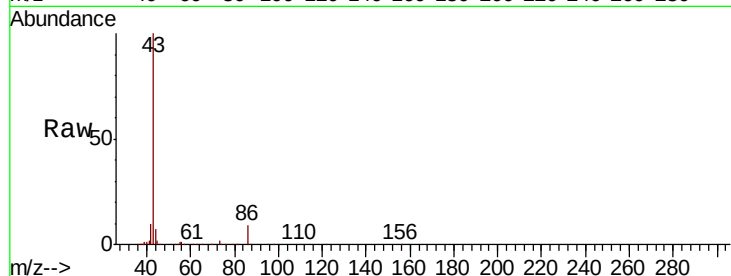
ClientSampleId :

VSTDIC001

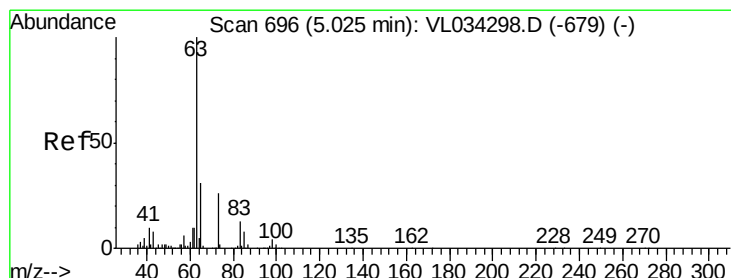
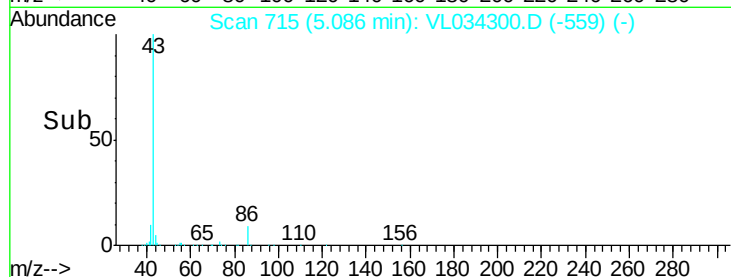
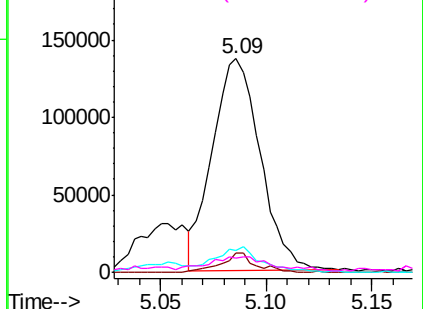
Tot Ion	43	Resp	215362
Ion Ratio	Lower	Upper	
43	100		
86	8.6	5.0	7.4#
42	9.4	8.6	13.0
44	5.8	4.8	7.2

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 1.022 ppbv

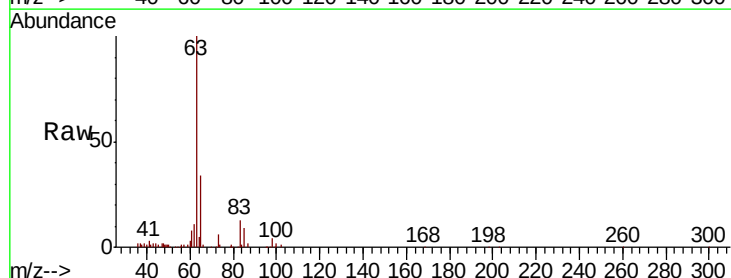
RT: 5.02 min Scan# 696

Delta R.T. 0.00 min

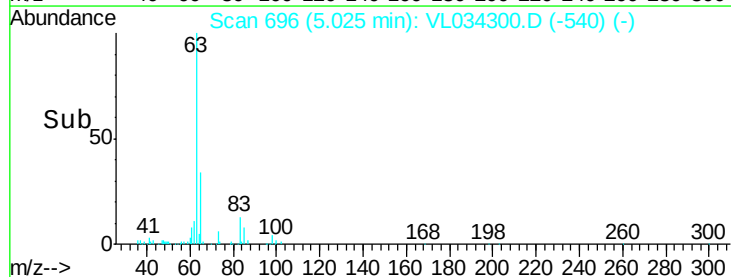
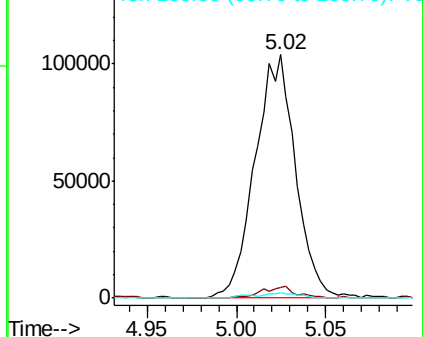
Lab File: VL034300.D

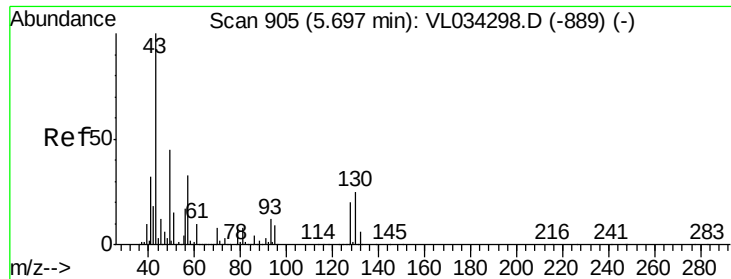
Acq: 16 Oct 2019 14:11

Tgt Ion	63	Resp	164765
Ion Ratio	Lower	Upper	
63	100		
98	4.3	2.0	6.0
100	2.4	1.1	3.5



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





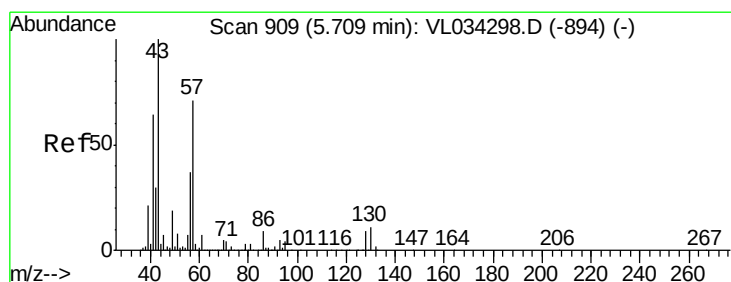
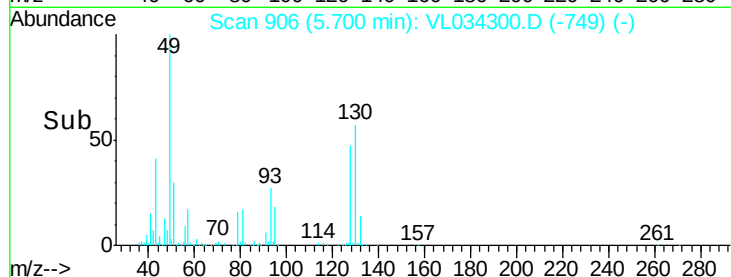
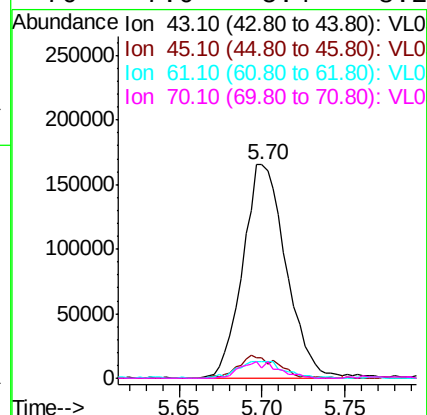
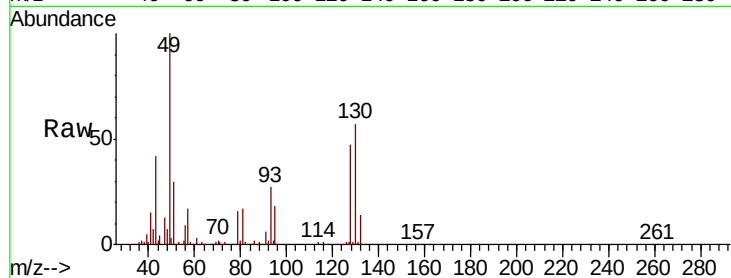
#25
Ethyl Acetate
Concen: 0.969 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	8.6	7.7	11.5
70	7.0	5.4	8.2

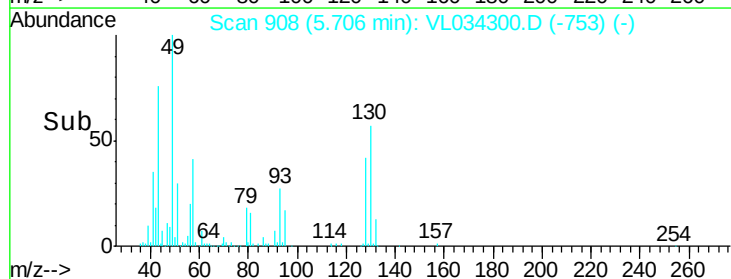
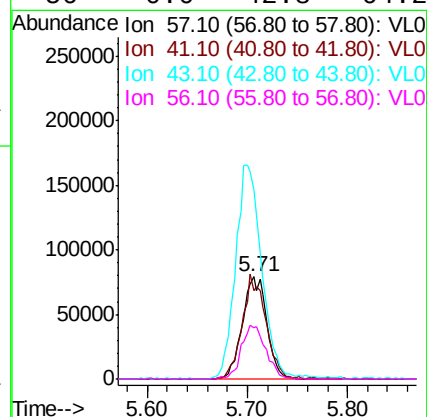
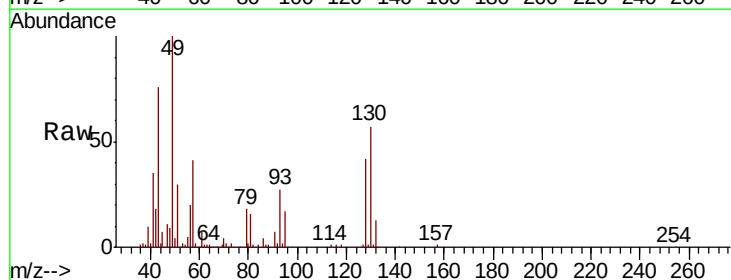
Manual Integrations
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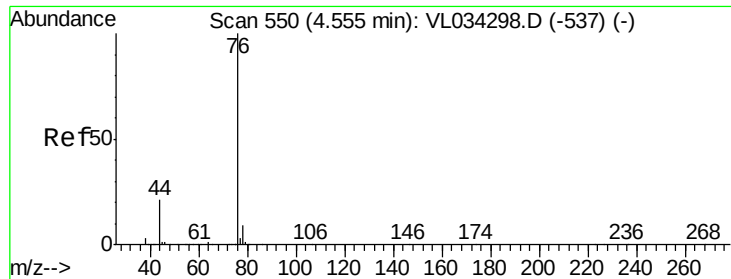
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#26
Hexane
Concen: 1.047 ppbv m
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.5	114.7#
43	0.0	188.5	282.7#
56	0.0	42.8	64.2#





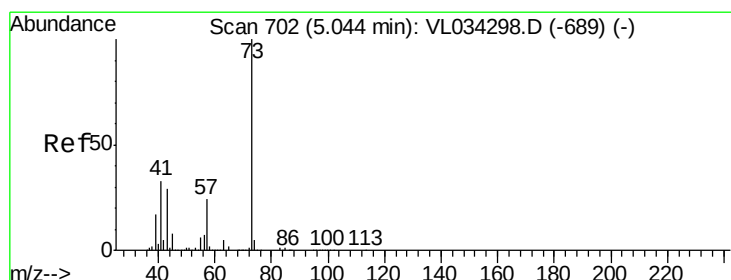
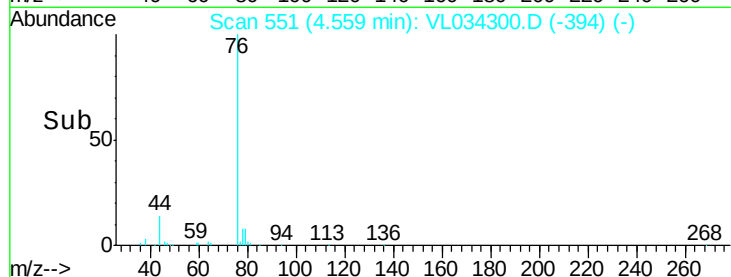
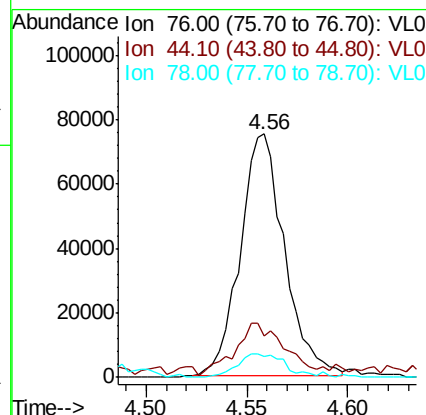
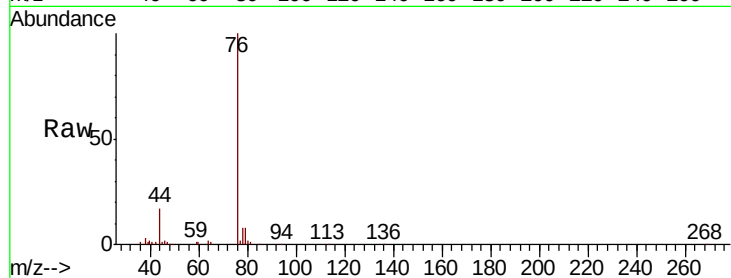
#27
Carbon Disulfide
Concen: 0.985 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	26.1	17.3	25.9#
78	11.0	7.8	11.6

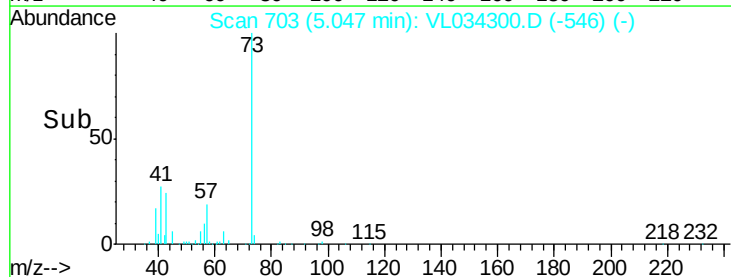
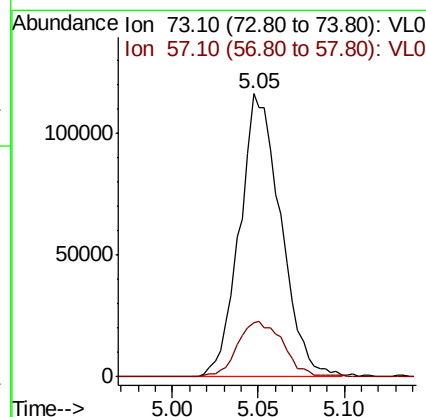
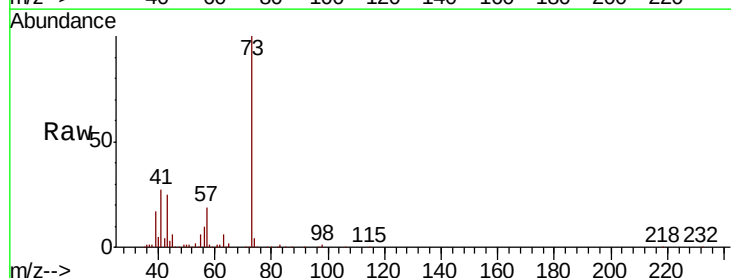
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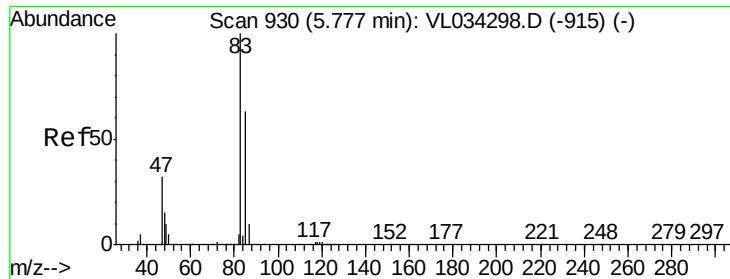
MMDadoda
10/18/2019 3:03:52 PM



#28
Methyl tert-Butyl Ether
Concen: 1.014 ppbv
RT: 5.05 min Scan# 703
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.0	19.2	28.8





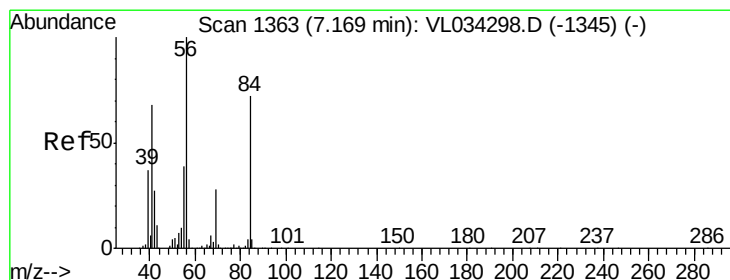
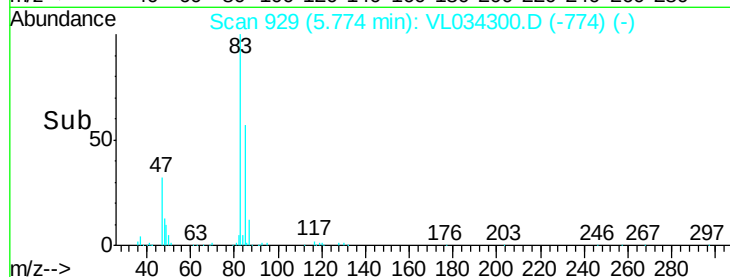
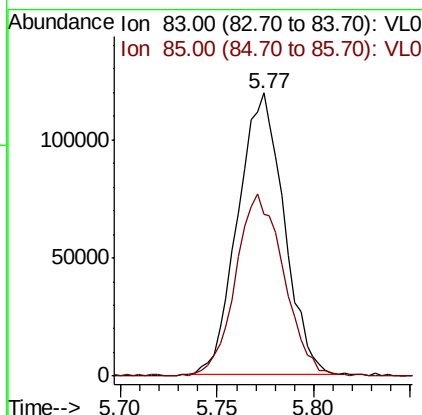
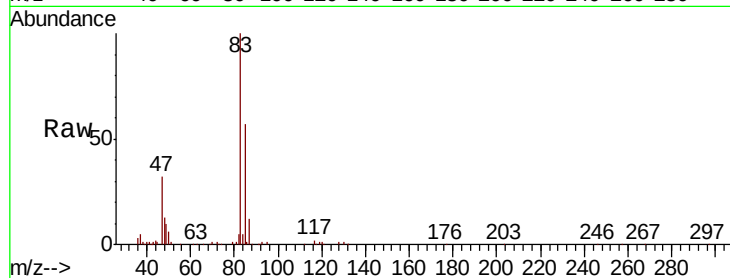
#29
Chloroform
Concen: 1.078 ppbv
RT: 5.77 min Scan# 929
Delta R.T. -0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 83 Resp: 196889
Ion Ratio Lower Upper
83 100
85 57.1 50.5 75.7

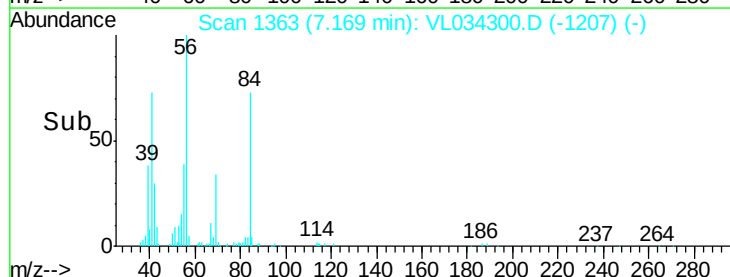
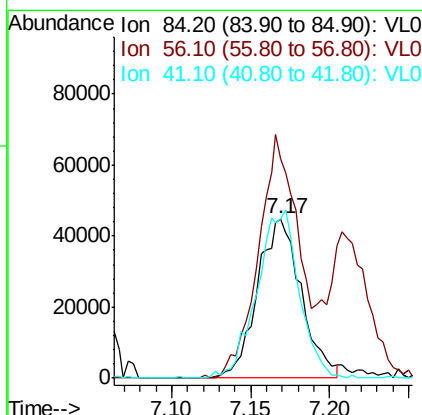
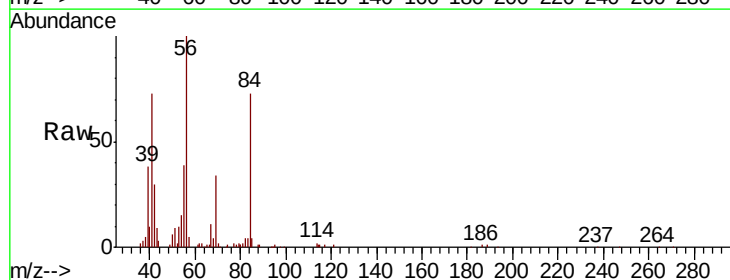
Manual Integrations
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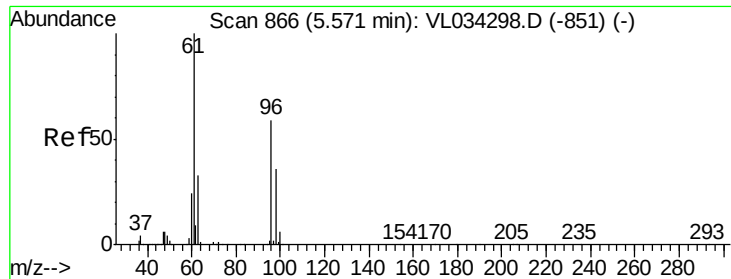
MMDadoda
10/18/2019 3:03:52 PM



#30
Cyclohexane
Concen: 0.950 ppbv m
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion: 84 Resp: 87640
Ion Ratio Lower Upper
84 100
56 150.3 119.4 179.0
41 102.2 78.7 118.1





#31

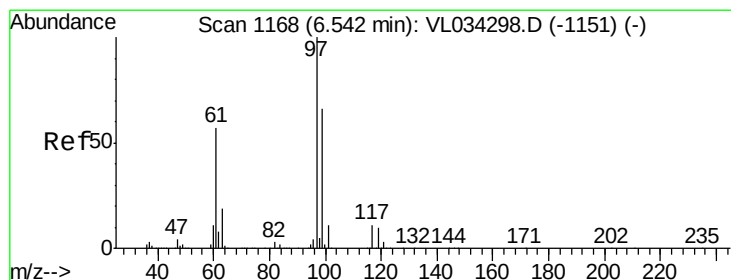
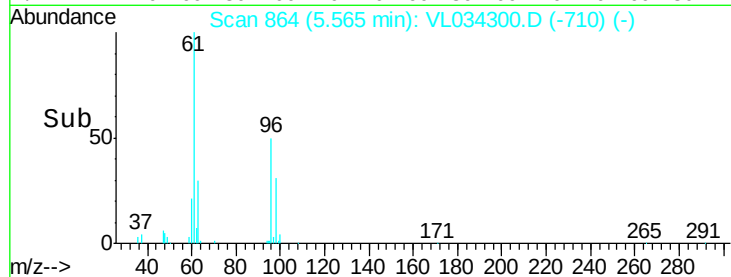
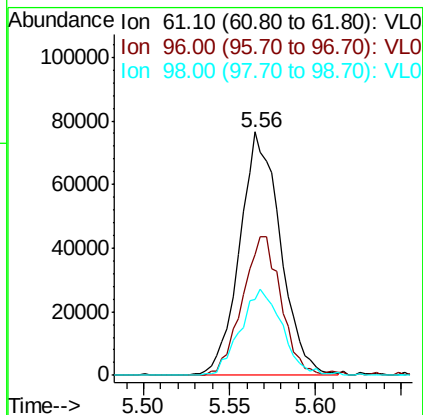
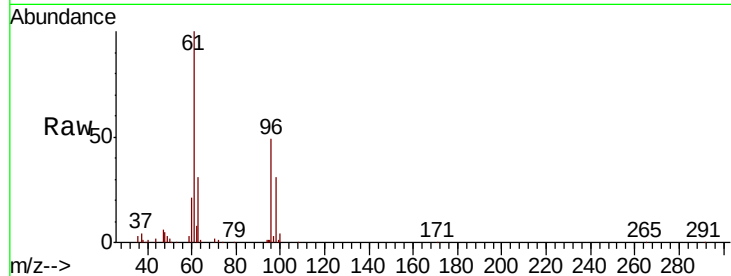
cis-1,2-Dichloroethene
 Concen: 0.964 ppbv
 RT: 5.56 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	49.3	47.5	71.3
98	31.1	28.8	43.2

Manual Integrations
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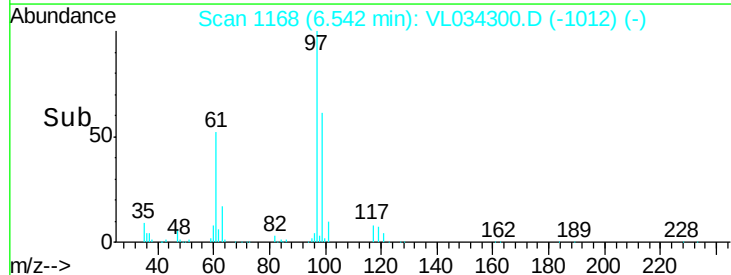
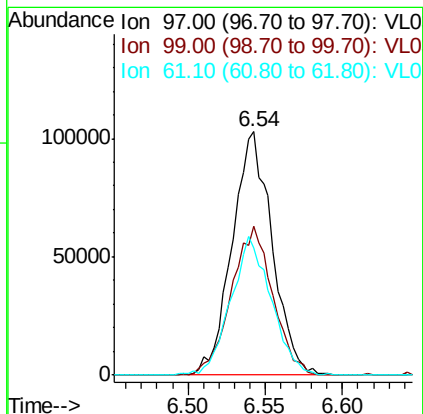
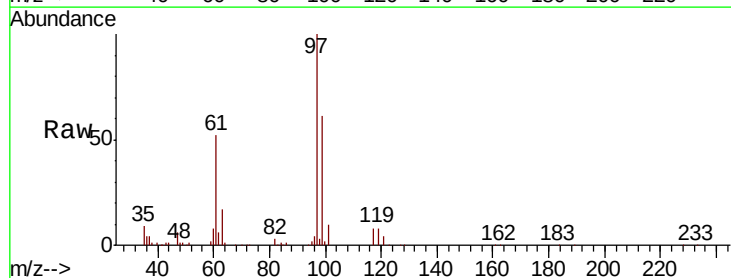
MMDadoda
 10/18/2019 3:03:52 PM

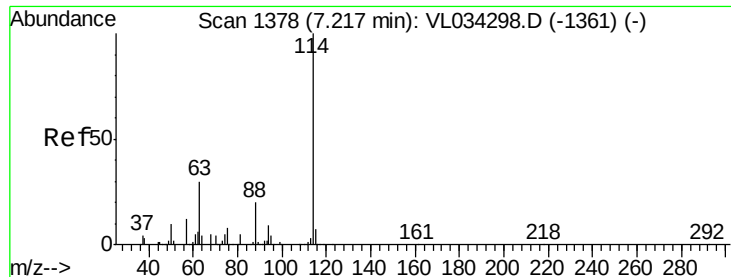


#32

1,1,1-Trichloroethane
 Concen: 1.047 ppbv
 RT: 6.54 min Scan# 1168
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	52.6	78.8
61	57.5	44.5	66.7





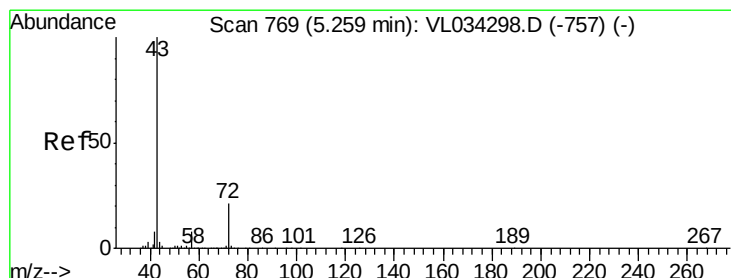
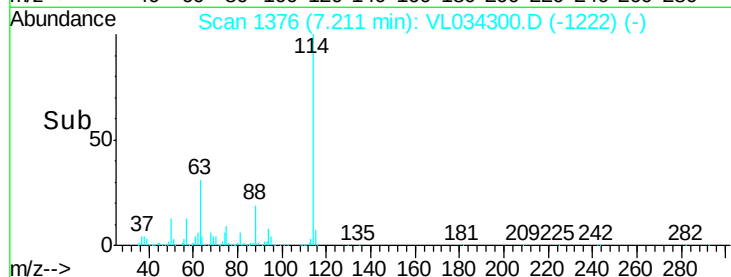
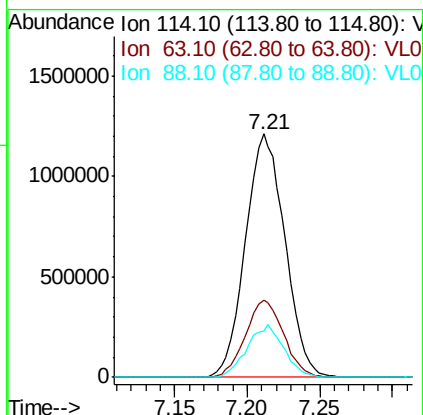
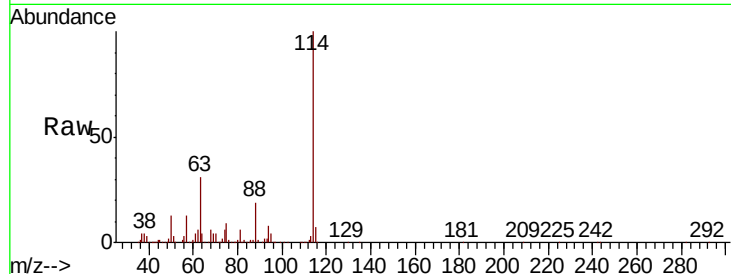
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.0	25.2	37.8
88	20.2	16.0	24.0

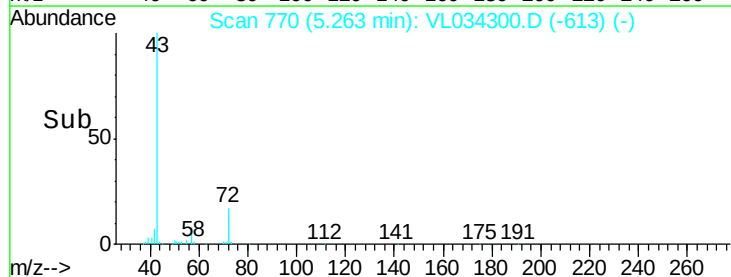
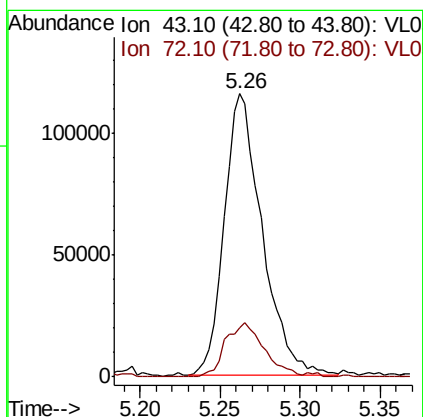
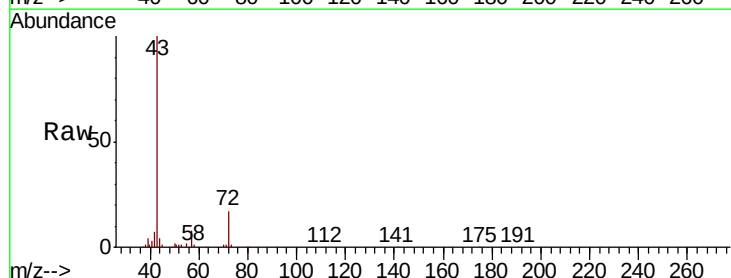
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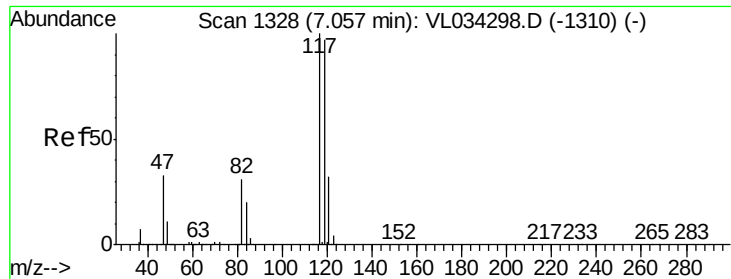
MMDadoda
 10/18/2019 3:03:52 PM



#34
 2-Butanone
 Concen: 0.806 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	16.3	24.5





#35

Carbon Tetrachloride

Concen: 1.008 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

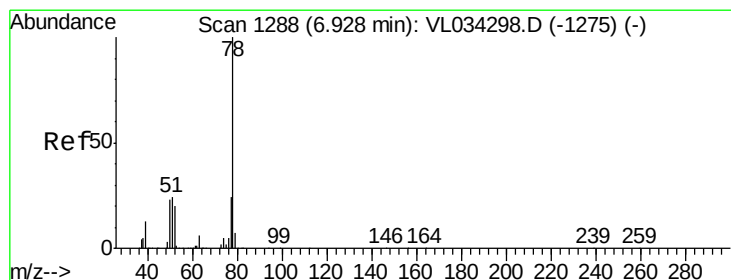
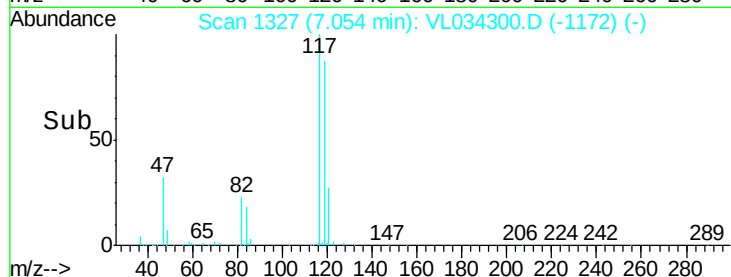
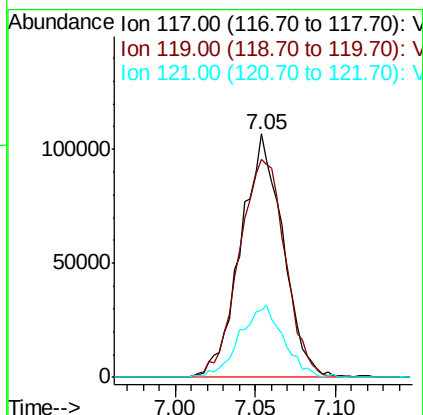
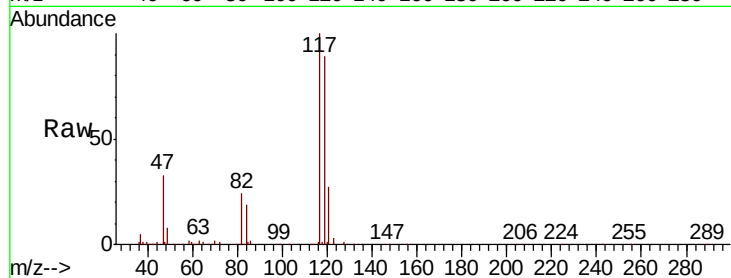
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	192271
Ion Ratio	Lower	Upper	
117	100		
119	89.3	77.3	115.9
121	27.3	25.5	38.3

Manual Integrations
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10/18/2019 3:03:52 PM



#36

Benzene

Concen: 0.901 ppbv

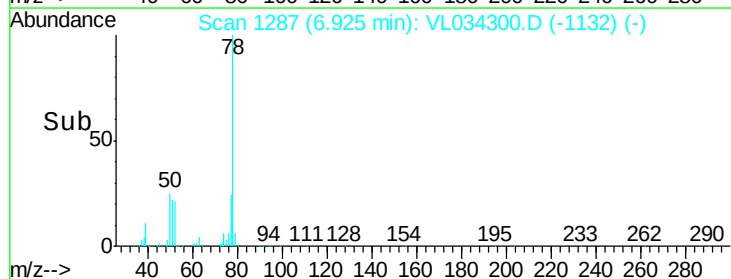
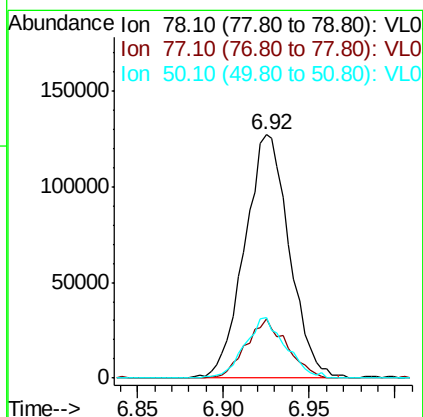
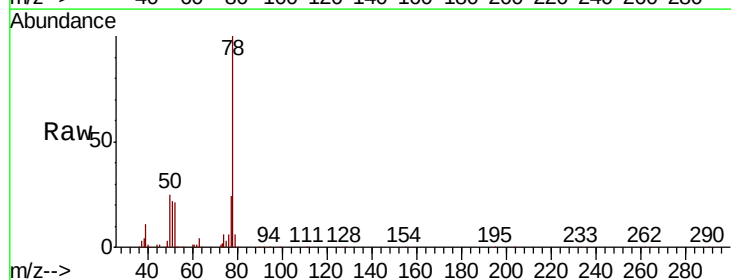
RT: 6.92 min Scan# 1287

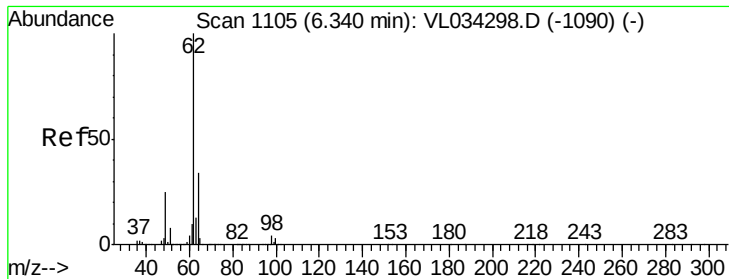
Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion:	78	Resp:	228556
Ion Ratio	Lower	Upper	
78	100		
77	24.2	19.0	28.4
50	25.1	18.6	27.8





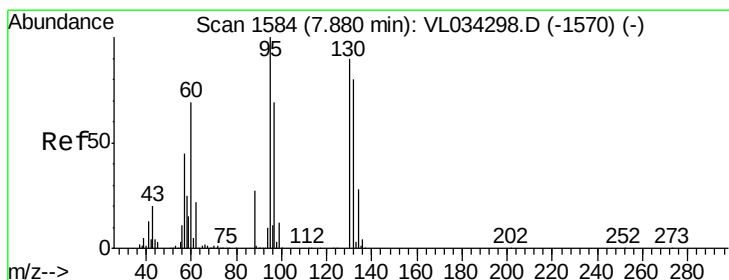
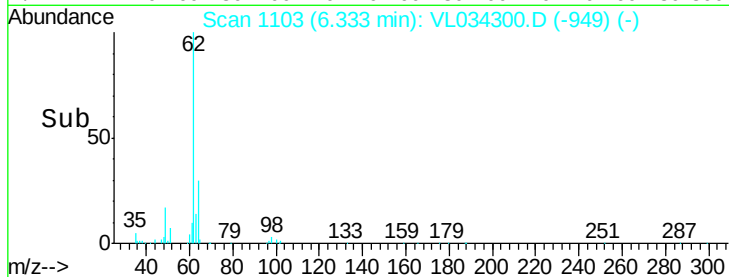
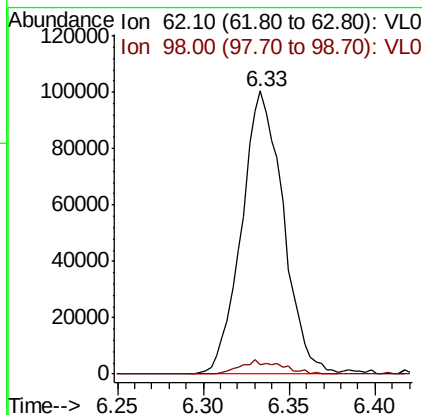
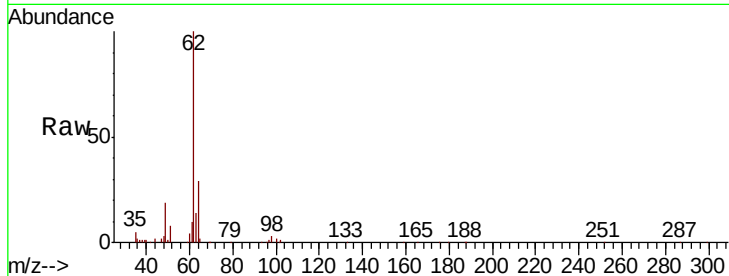
#37
 1,2-Dichloroethane
 Concen: 0.936 ppbv
 RT: 6.33 min Scan# 1103
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.9	3.8	5.6

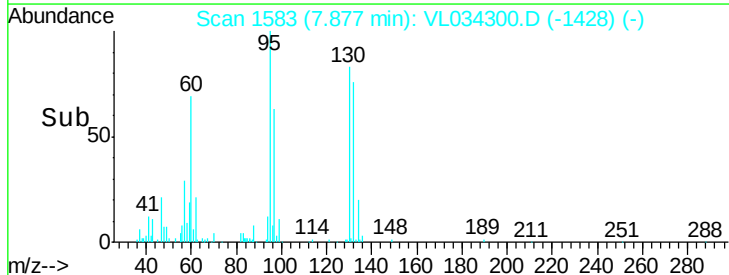
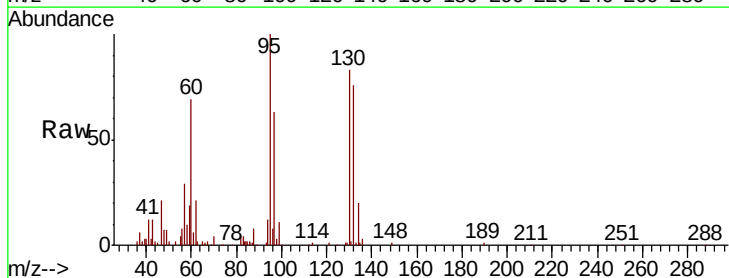
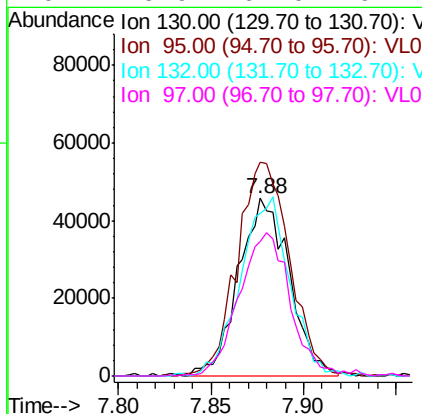
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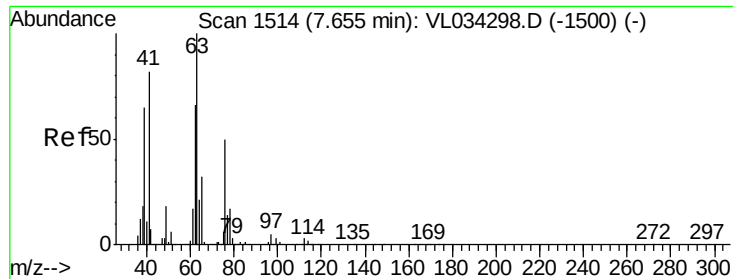
MMDadoda
 10/18/2019 3:03:52 PM



#38
 Trichloroethene
 Concen: 0.956 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.8	88.6	132.8
132	92.7	71.2	106.8
97	75.9	61.0	91.4





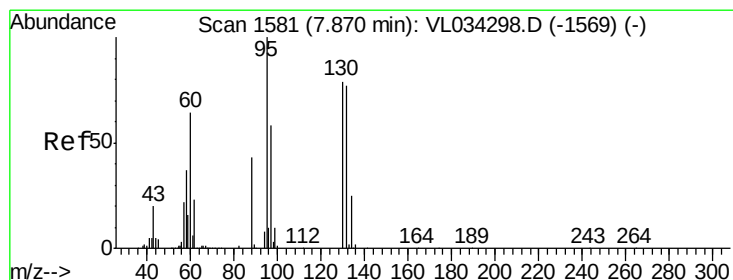
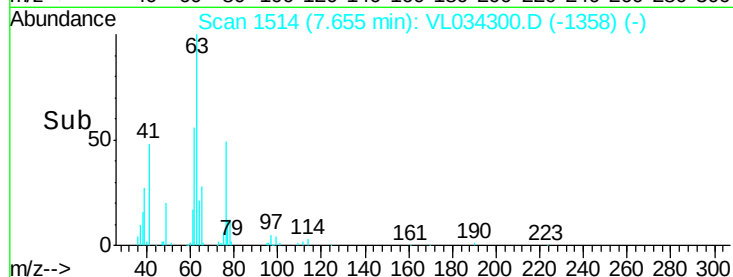
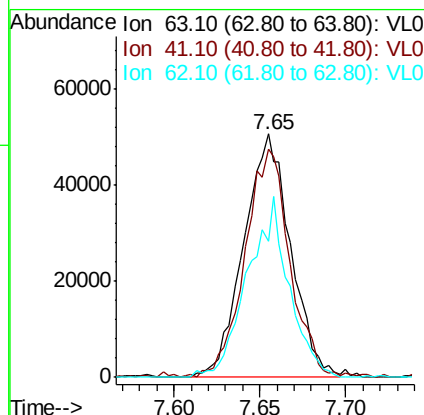
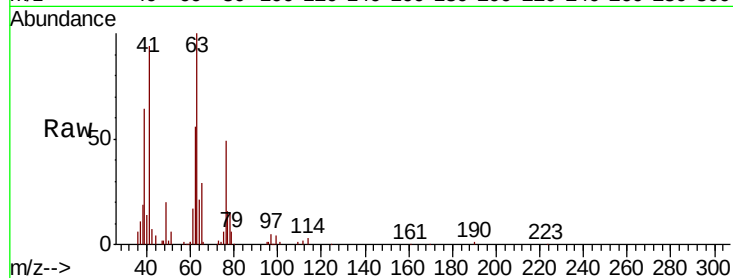
#39
 1,2-Dichloropropane
 Concen: 0.838 ppbv
 RT: 7.65 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	63	Resp:	95506
Ion	Ratio	Lower	Upper
63	100		
41	93.4	65.6	98.4
62	56.3	53.0	79.6

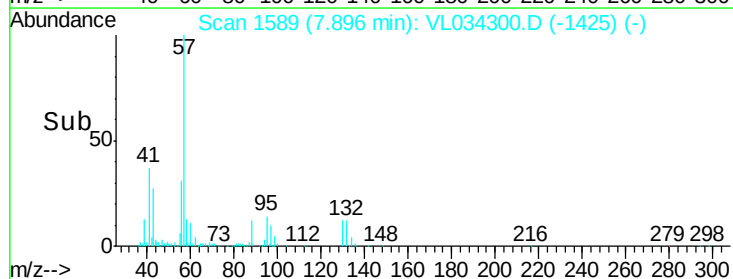
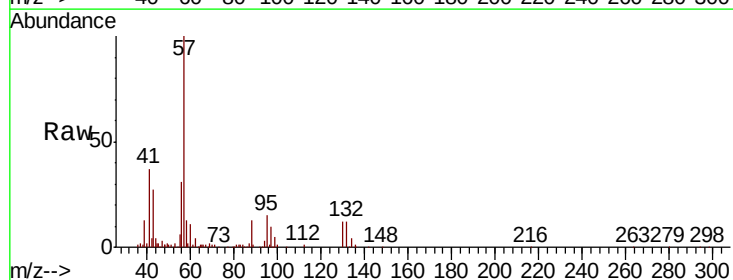
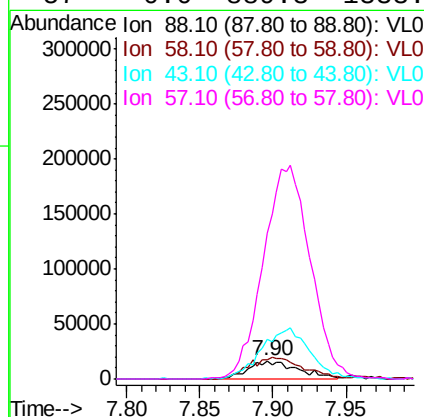
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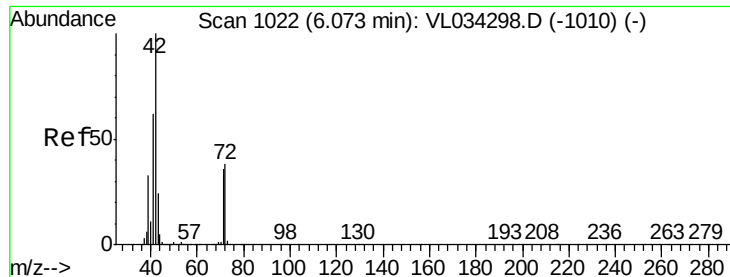
MMDadoda
 10/18/2019 3:03:52 PM



#40
 1,4-Dioxane
 Concen: 1.044 ppbv m
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.03 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion:	88	Resp:	38511
Ion	Ratio	Lower	Upper
88	100		
58	0.0	110.3	165.5#
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





#41

Tetrahydrofuran

Concen: 0.759 ppbv m

RT: 6.08 min Scan# 1025

Delta R.T. 0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

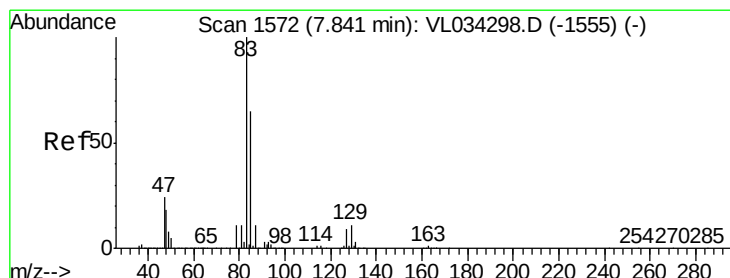
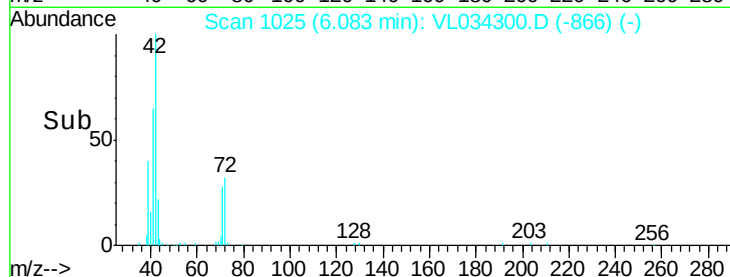
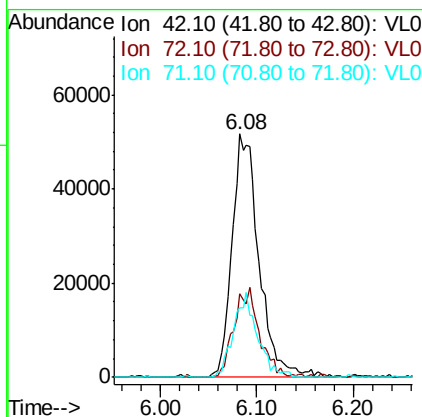
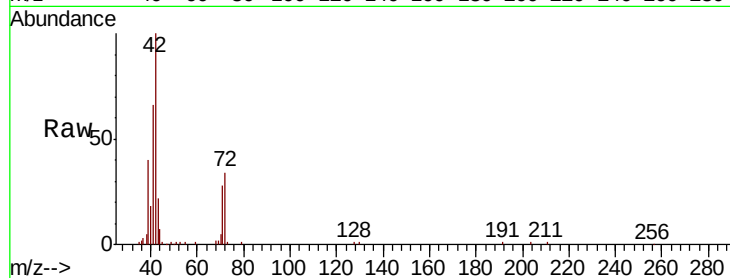
ClientSampleId :

VSTDIC001

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

Manual Integrations
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10/18/2019 3:03:52 PM



#42

Bromodichloromethane

Concen: 0.923 ppbv

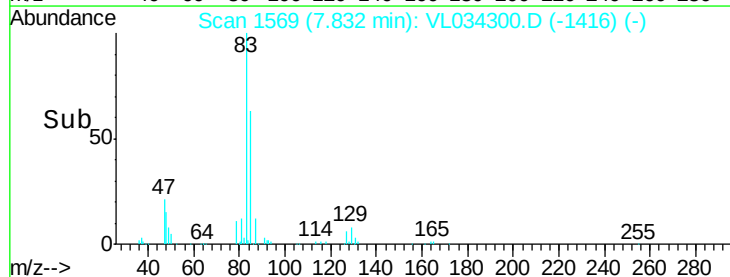
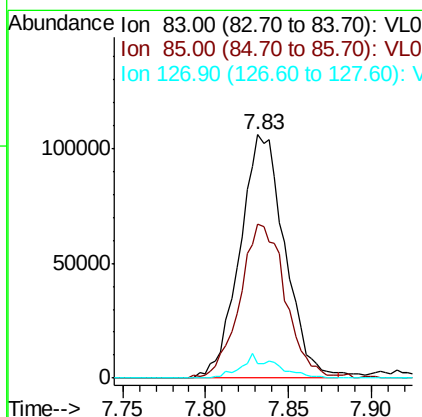
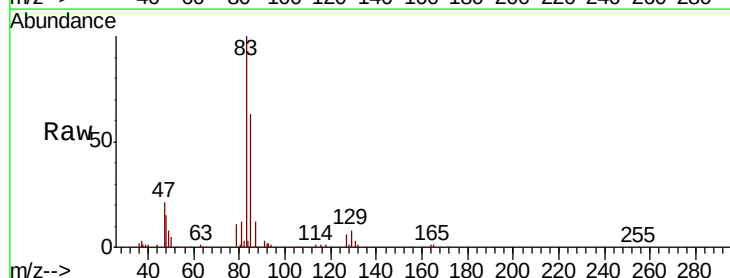
RT: 7.83 min Scan# 1569

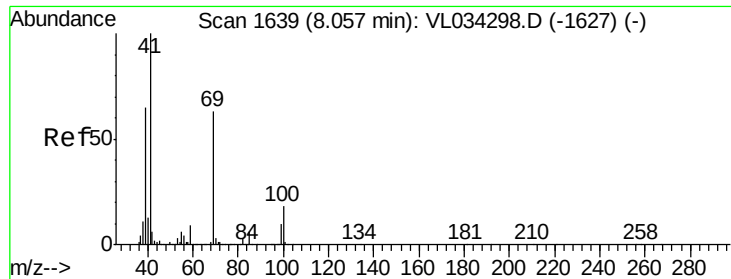
Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.8	77.6
127	6.1	7.0	10.6#





#43

Methyl Methacrylate

Concen: 0.868 ppbv

RT: 8.05 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

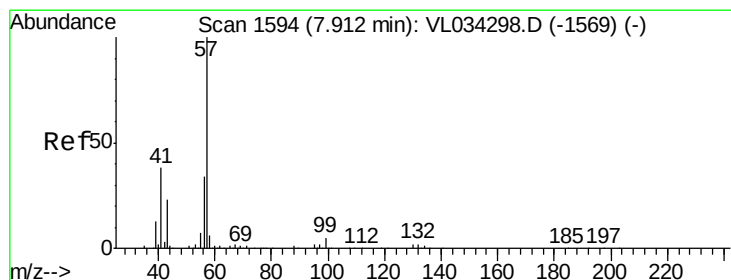
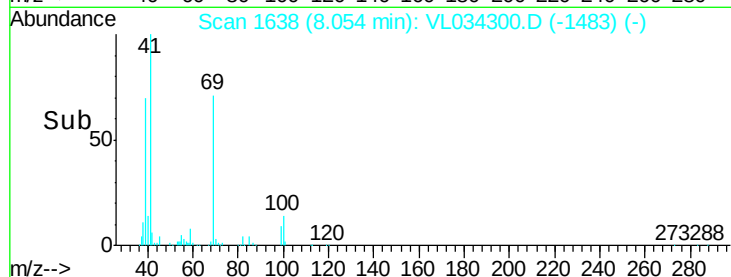
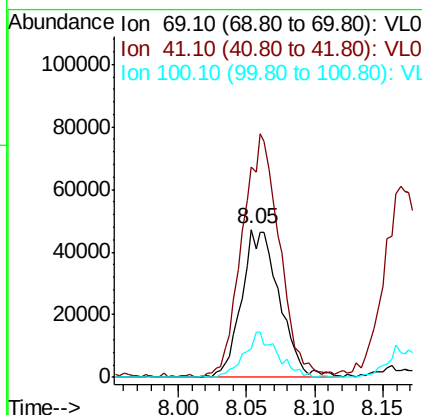
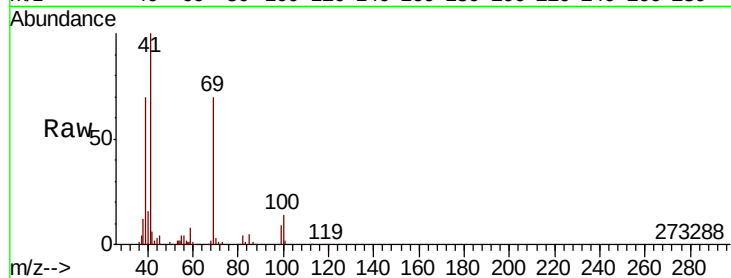
Instrument :
MSVOA_L

ClientSampled :
VSTDIC001

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

Manual Integrations
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MMDadoda
10/18/2019 3:03:52 PM



#44

2,2,4-Trimethylpentane

Concen: 0.875 ppbv

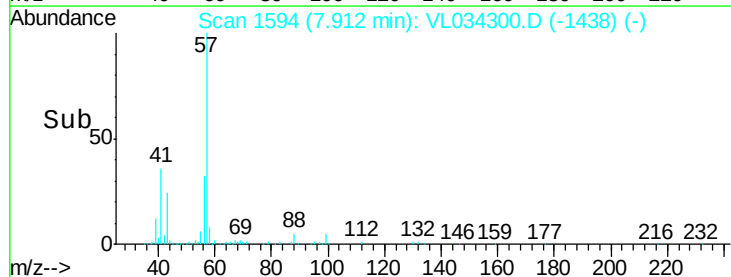
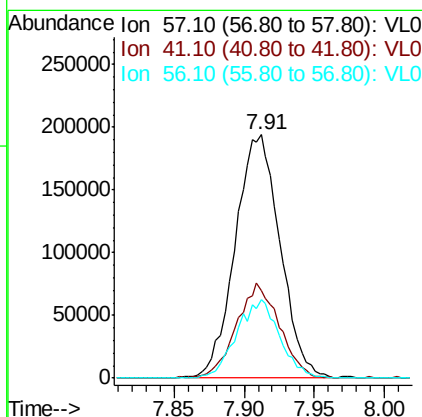
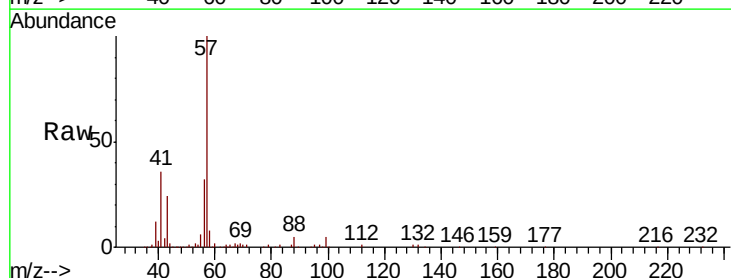
RT: 7.91 min Scan# 1594

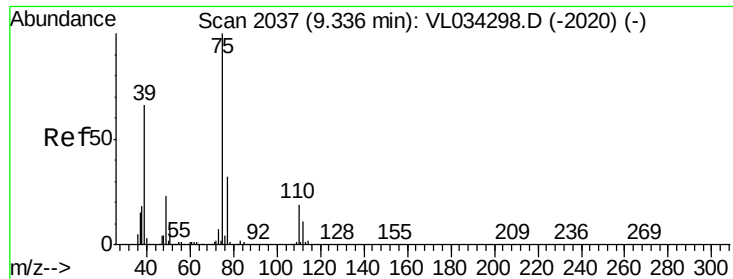
Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	38.1	29.3	43.9
56	31.4	25.3	37.9





#45

t-1,3-Dichloropropene

Concen: 0.766 ppbv

RT: 9.33 min Scan# 2035

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 94846

Ion Ratio Lower Upper

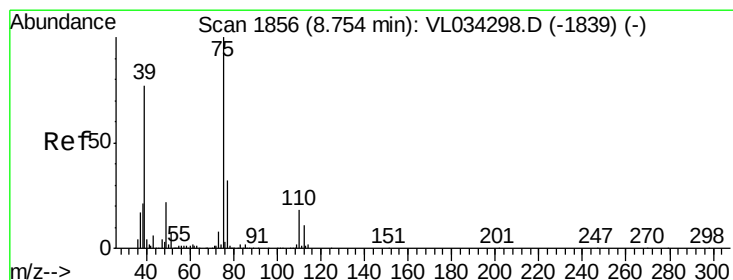
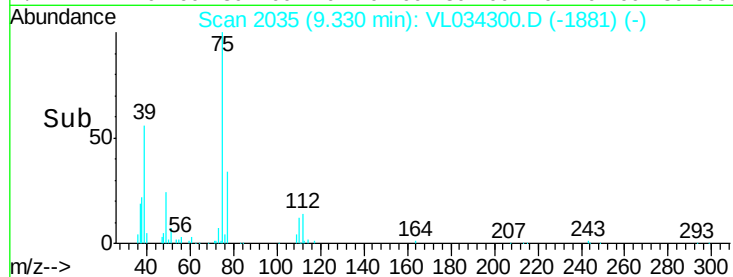
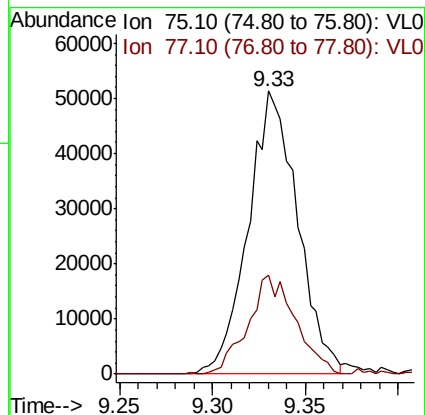
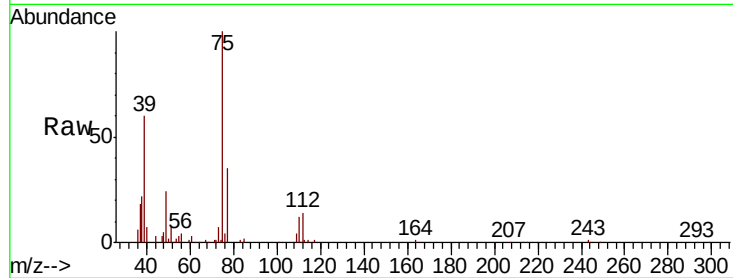
75 100

77 35.1 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 0.777 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

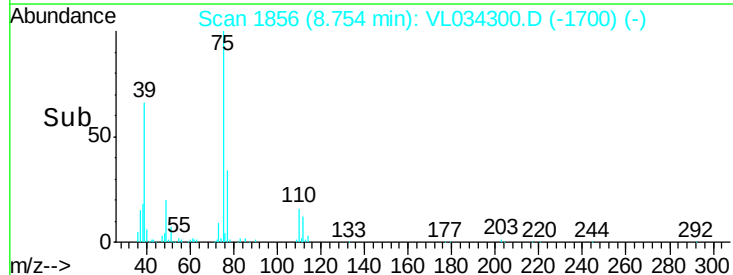
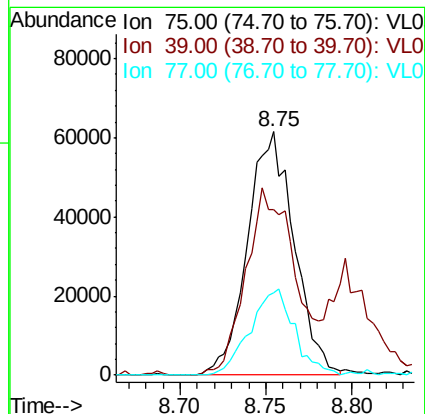
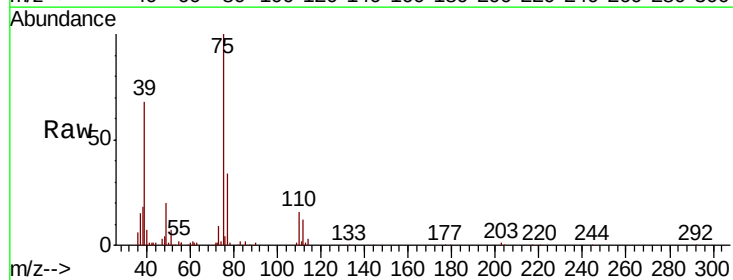
Tgt Ion: 75 Resp: 115767

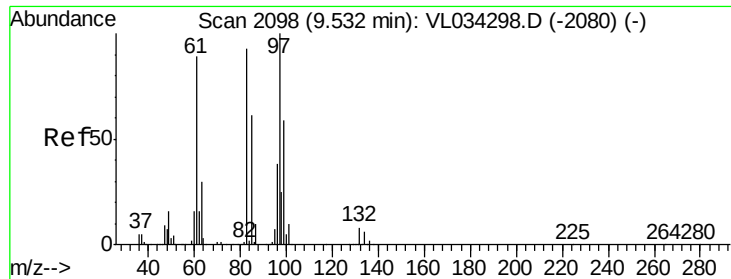
Ion Ratio Lower Upper

75 100

39 67.8 61.2 91.8

77 34.0 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 0.928 ppbv

RT: 9.53 min Scan# 2097

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

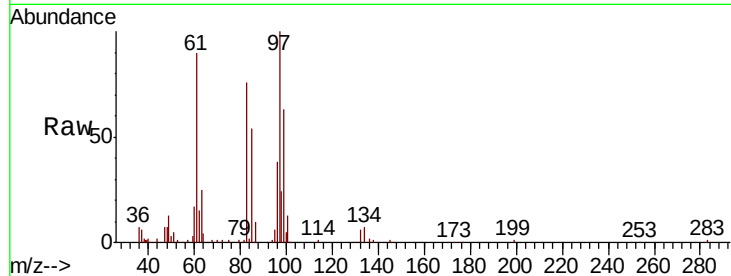
ClientSampleId :

VSTDIC001

Tot Ion:	97	Resp:	95007
Ion Ratio	Lower	Upper	
97	100		
83	75.9	74.2	111.2
85	54.2	48.6	73.0
99	62.7	47.0	70.6

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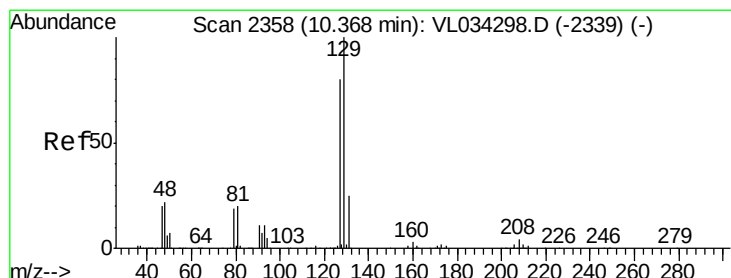
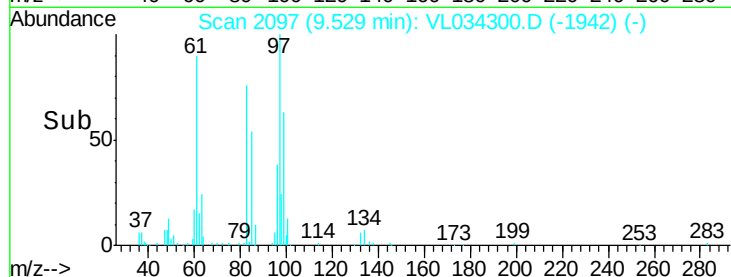
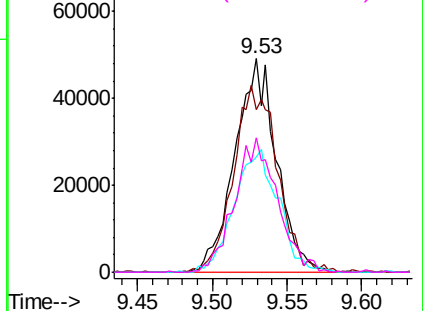


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.908 ppbv

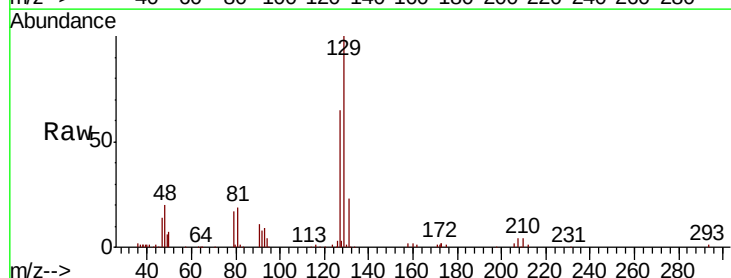
RT: 10.36 min Scan# 2356

Delta R.T. -0.01 min

Lab File: VL034300.D

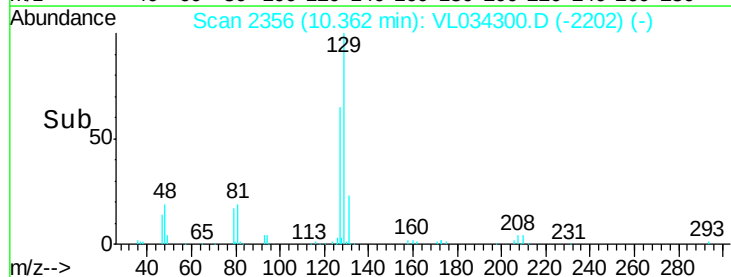
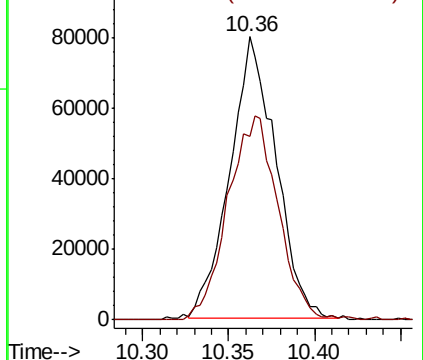
Acq: 16 Oct 2019 14:11

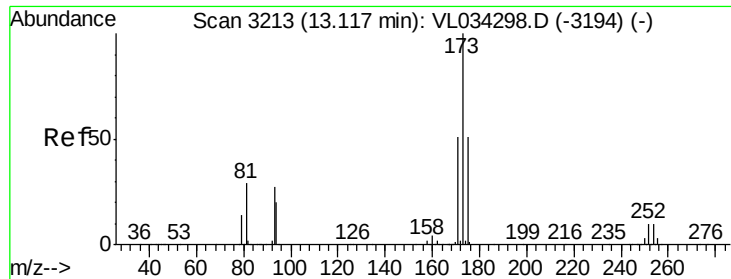
Tgt Ion:	129	Resp:	147205
Ion Ratio	Lower	Upper	
129	100		
127	79.9	39.7	119.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





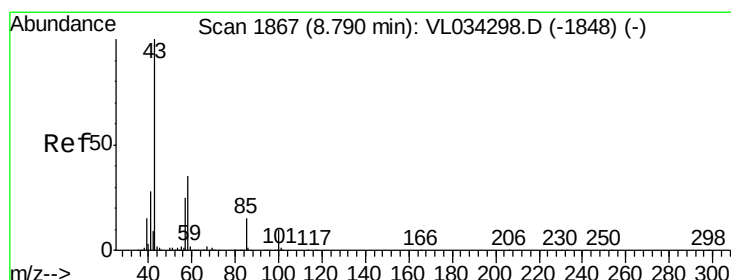
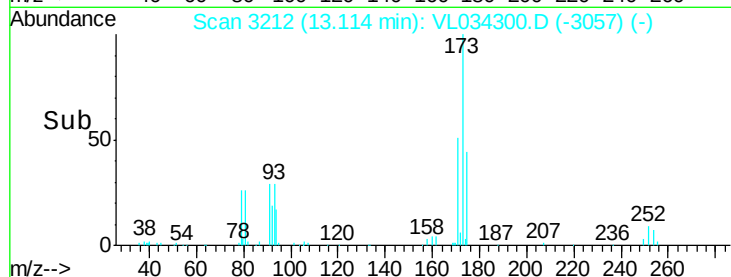
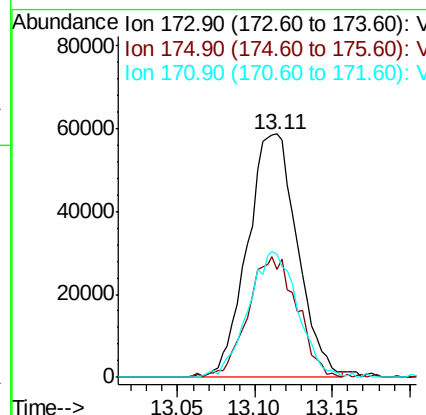
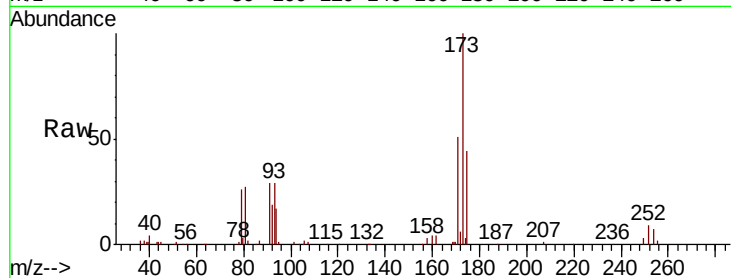
#49
Bromoform
Concen: 1.005 ppbv
RT: 13.11 min Scan# 3212
Delta R.T. -0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	39.8	59.6
171	51.5	41.8	62.6

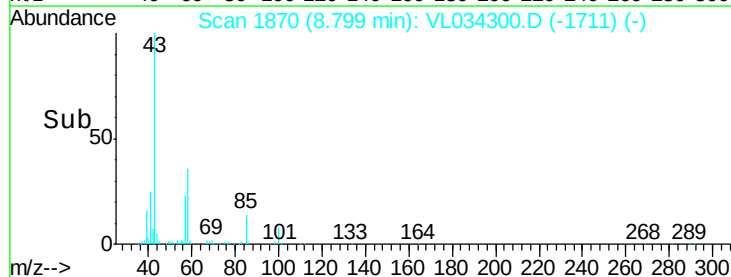
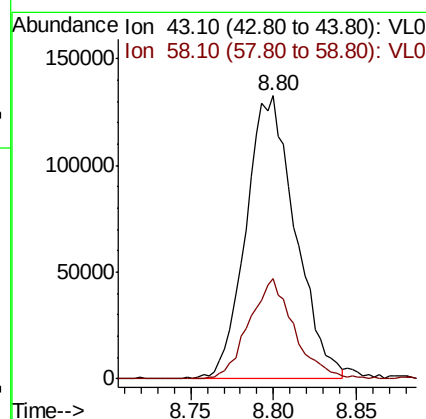
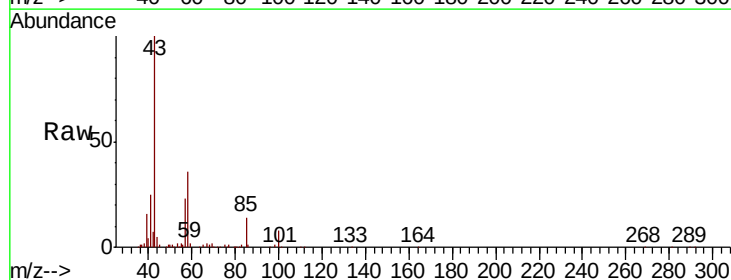
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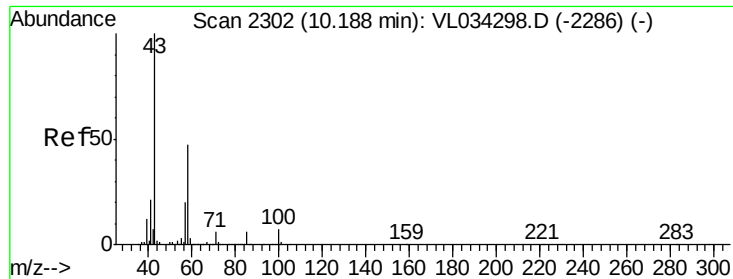
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 0.801 ppbv
RT: 8.80 min Scan# 1870
Delta R.T. 0.01 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.8	27.6	41.4





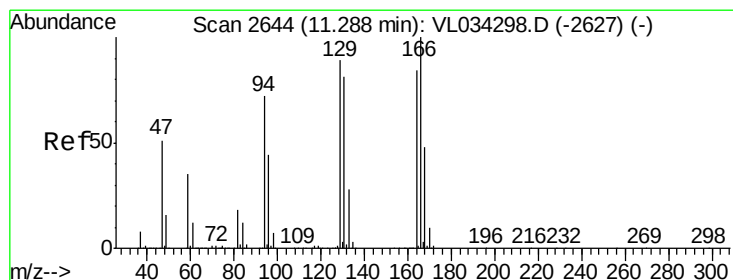
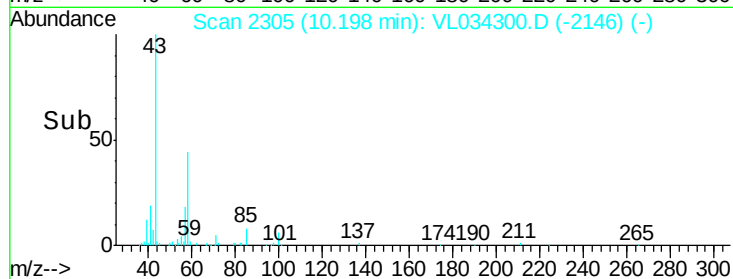
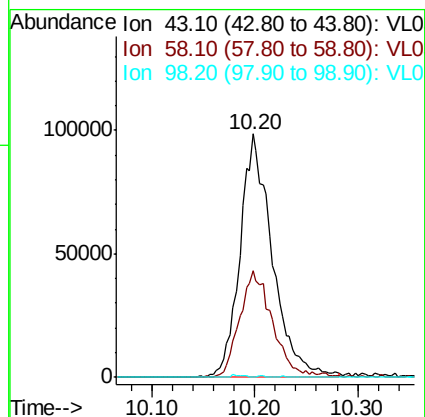
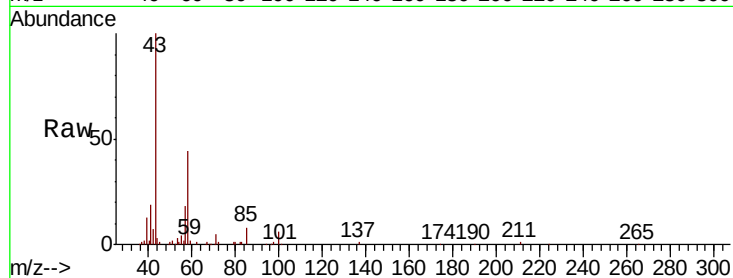
#51
2-Hexanone
Concen: 0.754 ppbv m
RT: 10.20 min Scan# 2305
Delta R.T. 0.01 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.2	37.0	55.6
98	0.7	0.2	0.2#

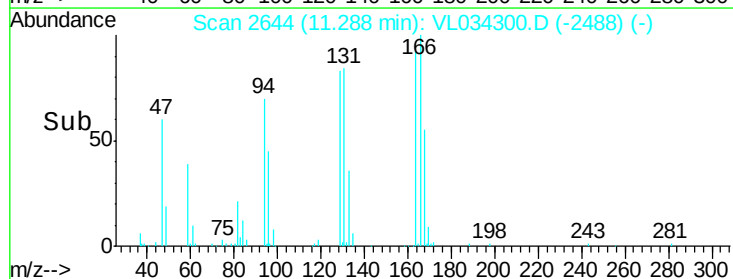
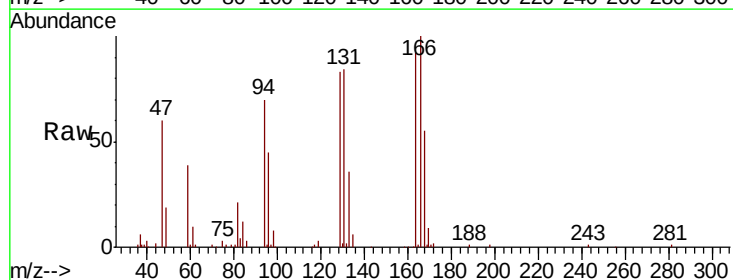
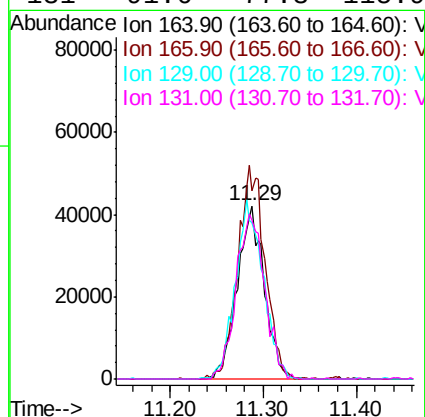
Manual Integrations
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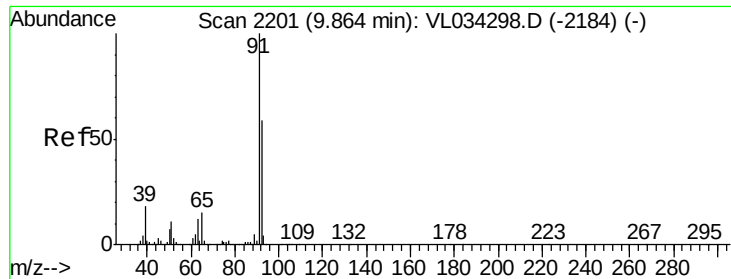
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#52
Tetrachloroethene
Concen: 1.009 ppbv m
RT: 11.29 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
164	100		
166	108.7	95.3	142.9
129	90.2	84.5	126.7
131	91.6	77.3	115.9





#53

Toluene

Concen: 0.871 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 241544

Ion Ratio Lower Upper

91 100

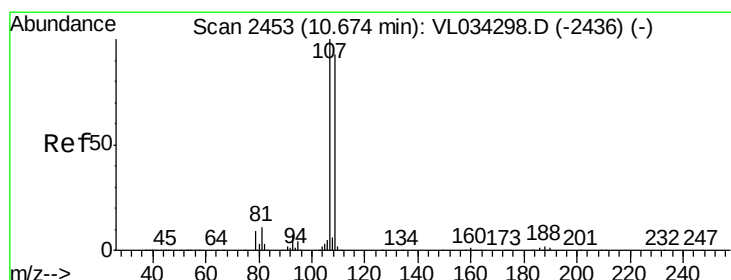
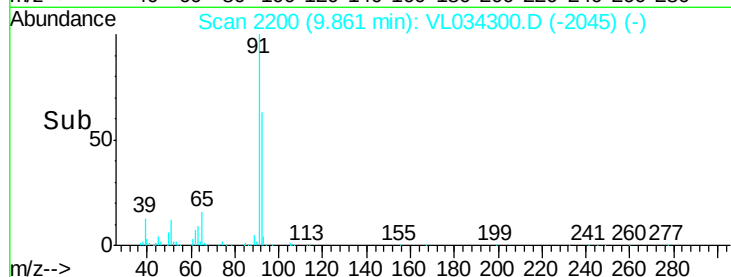
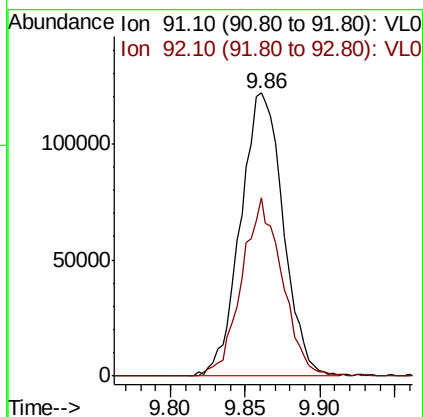
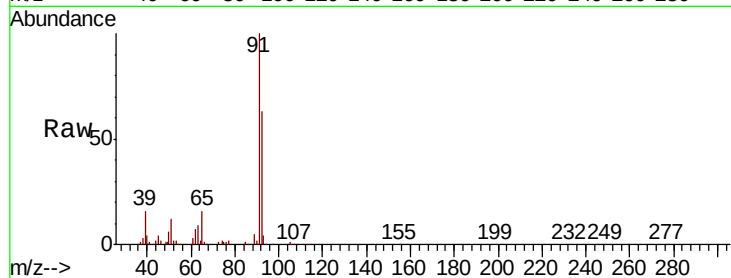
92 59.9 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 0.927 ppbv m

RT: 10.67 min Scan# 2451

Delta R.T. -0.01 min

Lab File: VL034300.D

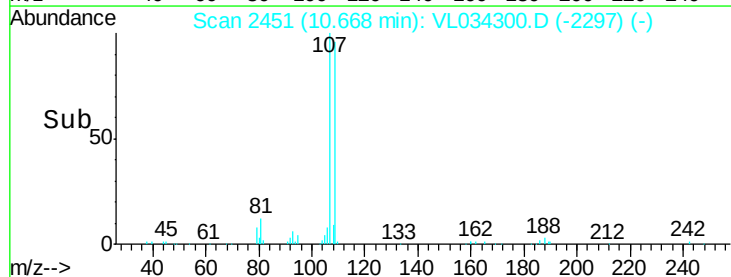
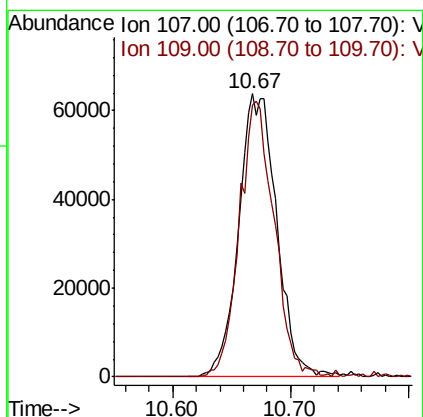
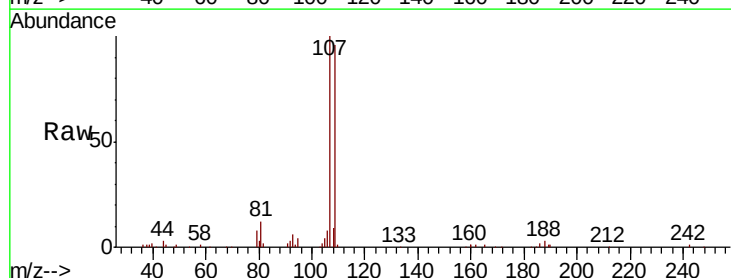
Acq: 16 Oct 2019 14:11

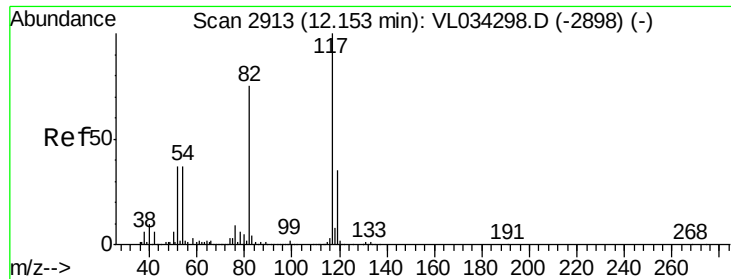
Tgt Ion: 107 Resp: 140997

Ion Ratio Lower Upper

107 100

109 95.8 74.6 112.0





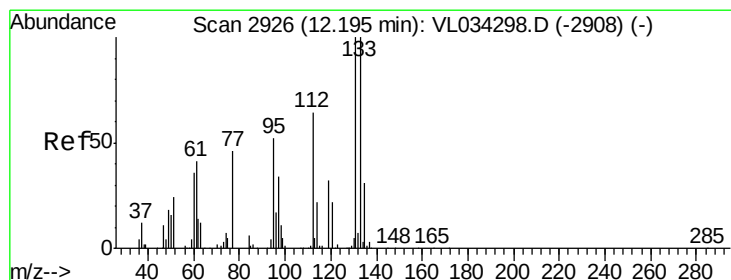
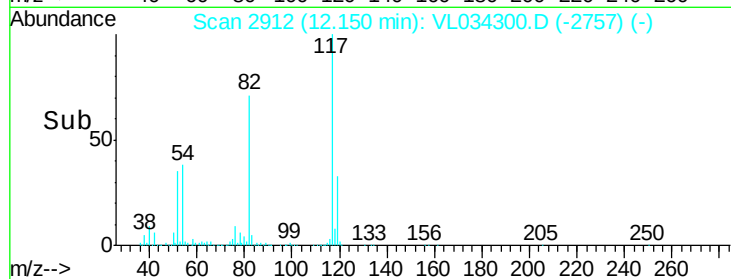
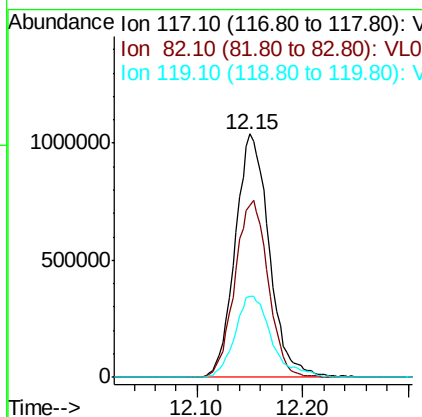
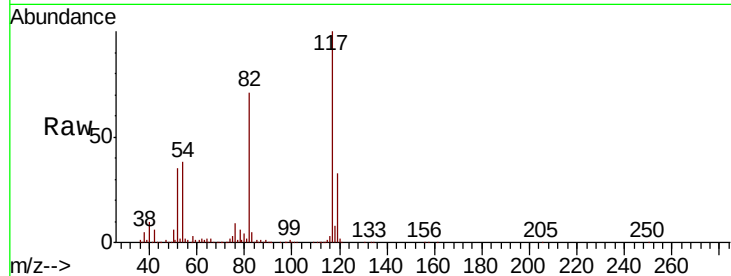
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.5	55.5	83.3
119	35.9	26.5	39.7

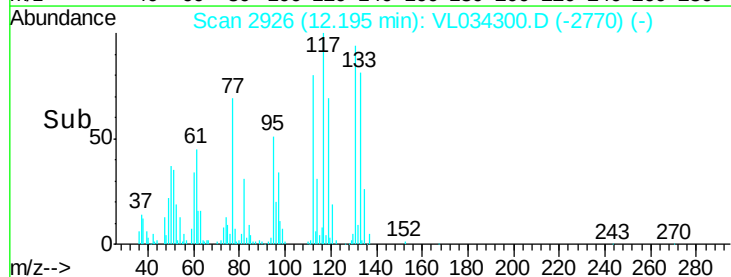
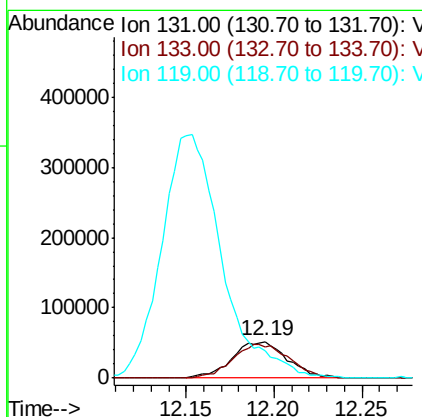
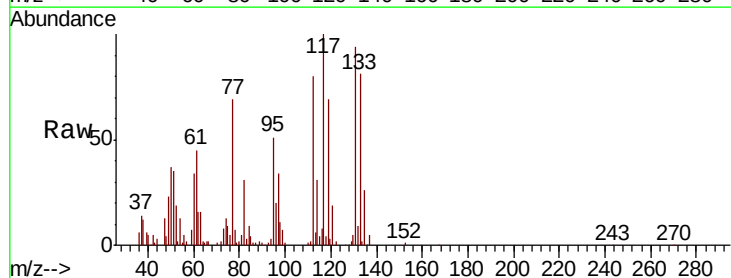
Manual Integrations
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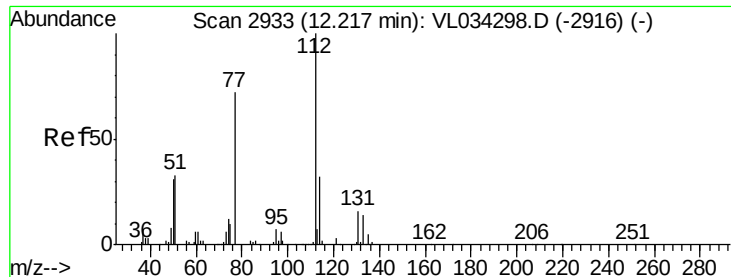
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.089 ppbv m
RT: 12.19 min Scan# 2926
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.3	77.1	115.7
119	0.0	49.0	73.4#





#57

Chlorobenzene

Concen: 1.049 ppbv m

RT: 12.21 min Scan# 2931

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

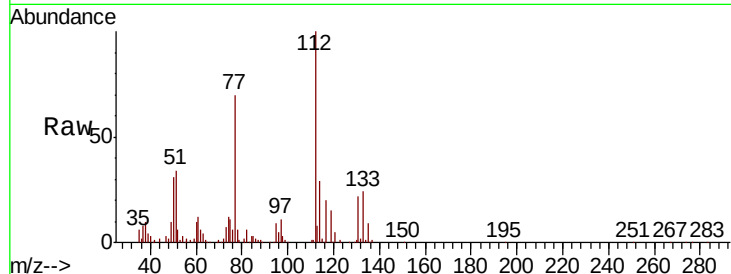
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	212067
Ion Ratio	Lower	Upper	
112	100		
77	69.8	58.6	88.0
114	29.1	28.6	35.0

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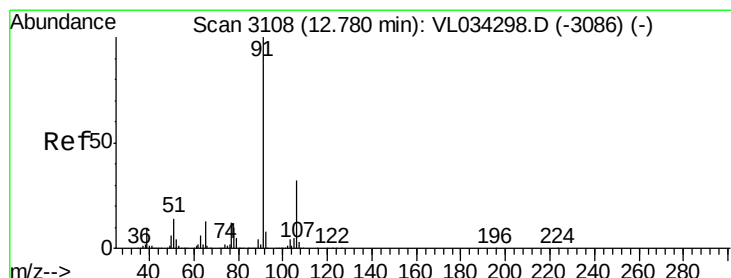
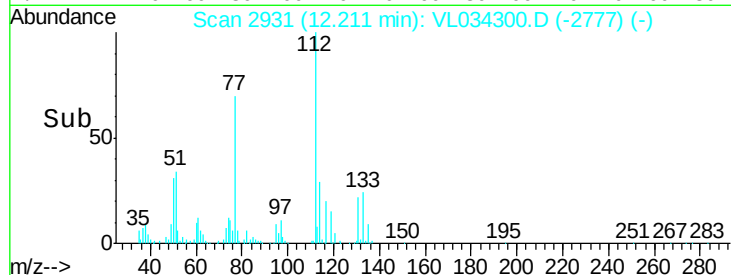
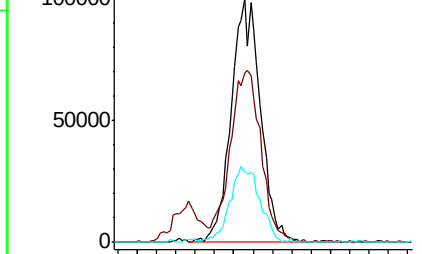
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.919 ppbv

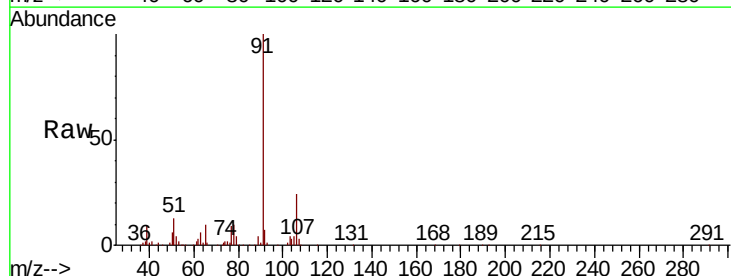
RT: 12.77 min Scan# 3106

Delta R.T. -0.01 min

Lab File: VL034300.D

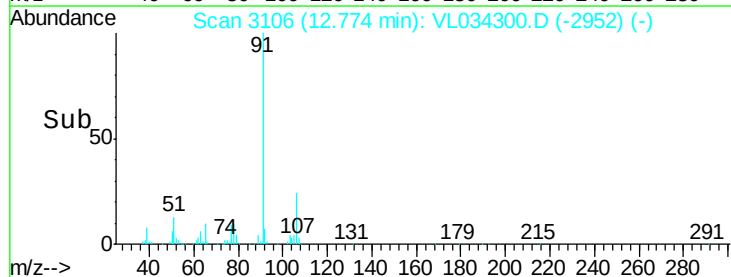
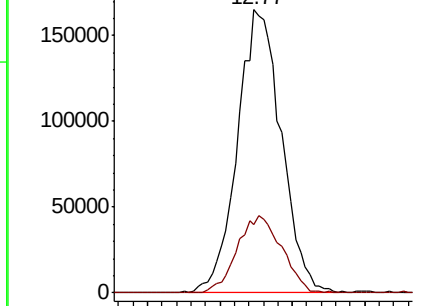
Acq: 16 Oct 2019 14:11

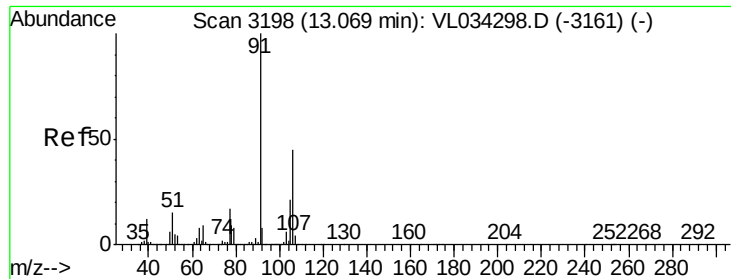
Tgt Ion:	91	Resp:	344504
Ion Ratio	Lower	Upper	
91	100		
106	24.3	25.3	37.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





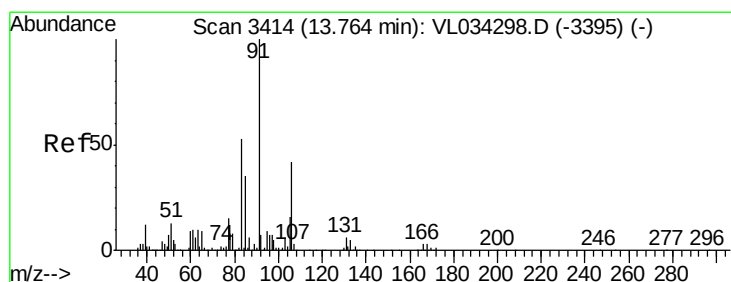
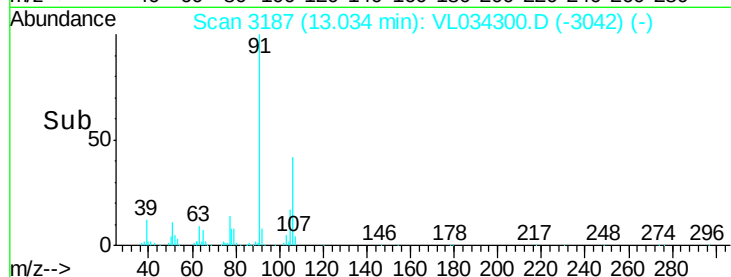
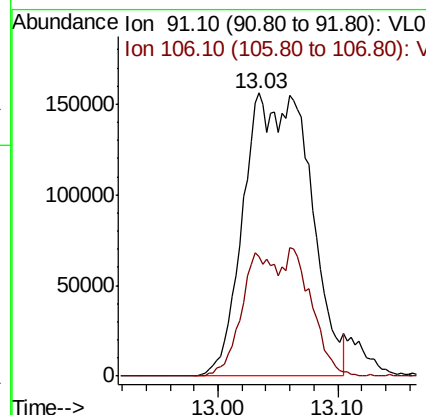
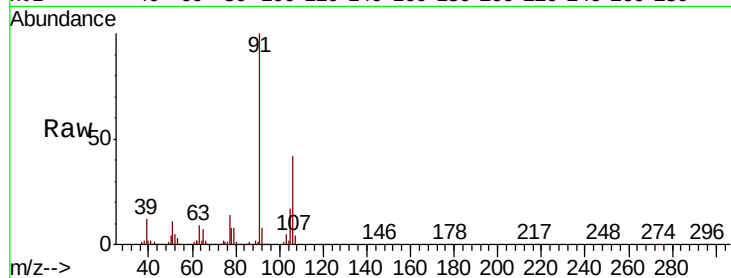
#59
m/p-Xylene
Concen: 1.940 ppbv m
RT: 13.03 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 602320
Ion Ratio Lower Upper
91 100
106 42.5 35.4 53.2

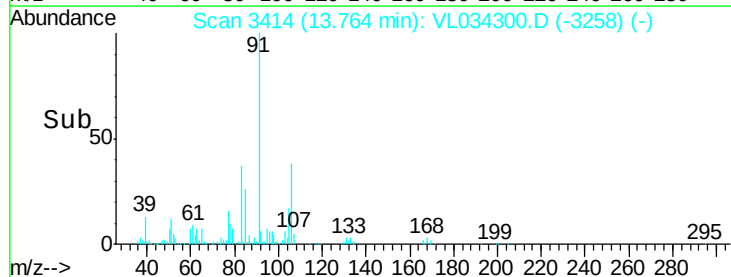
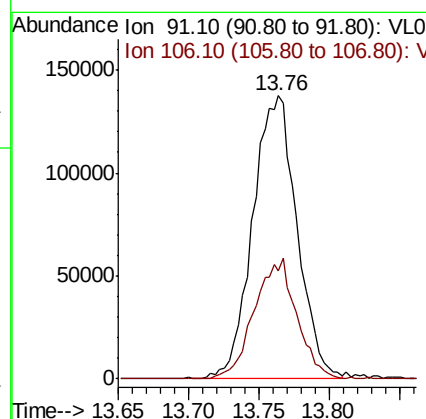
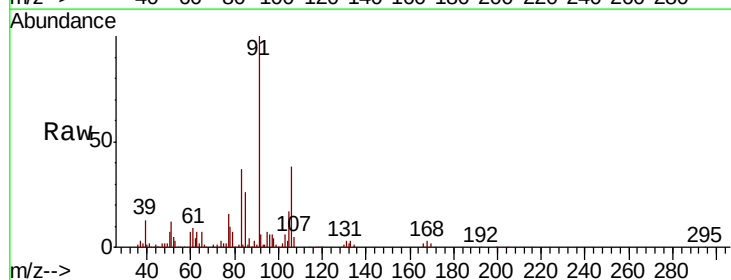
Manual Integrations
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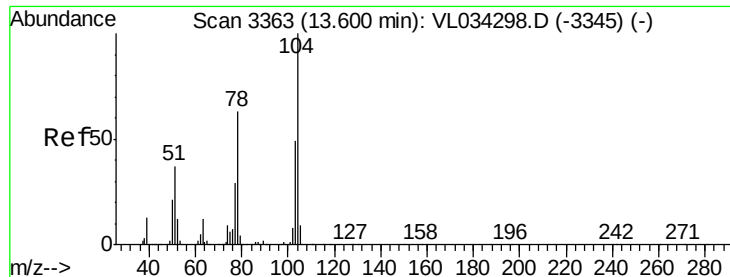
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#60
o-Xylene
Concen: 0.966 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion: 91 Resp: 299741
Ion Ratio Lower Upper
91 100
106 40.8 21.6 64.6





#61

Stvrene

Concen: 0.914 ppbv

RT: 13.60 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

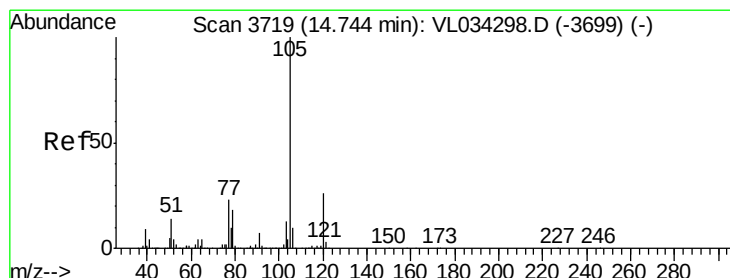
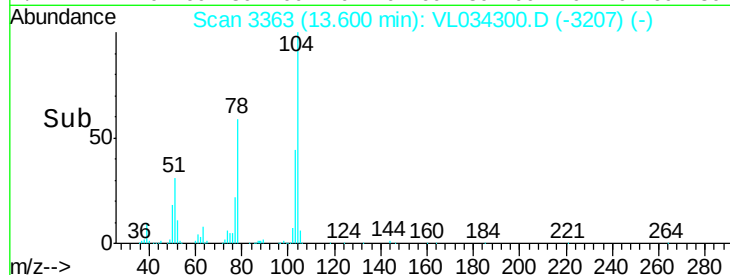
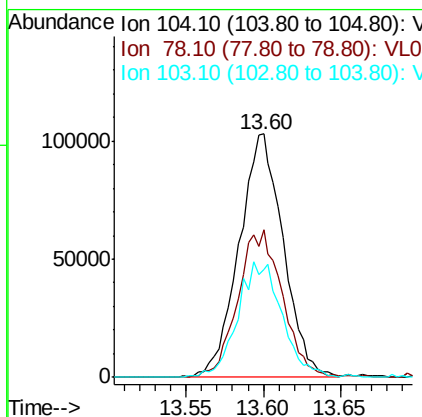
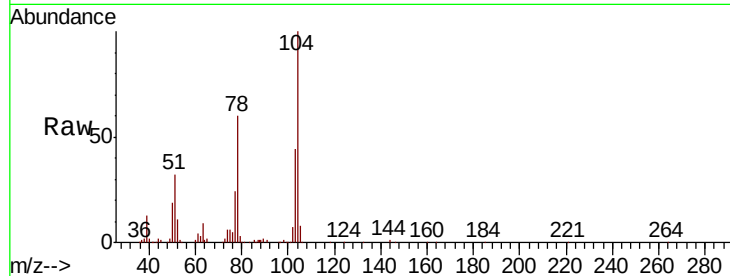
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	203295
Ion Ratio	Lower	Upper	
104	100		
78	61.7	47.8	71.8
103	48.0	39.0	58.6

Manual Integrations
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10/18/2019 3:03:52 PM



#62

Isopropylbenzene

Concen: 1.004 ppbv m

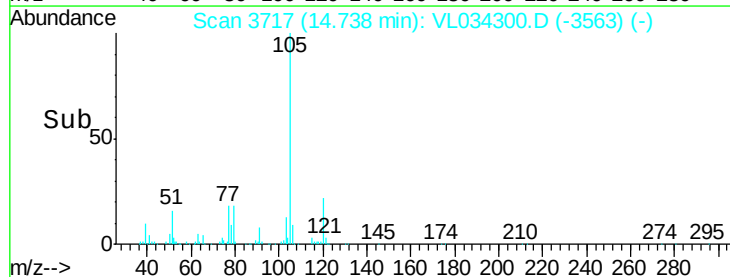
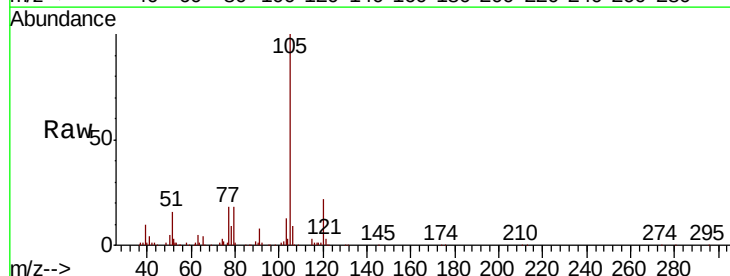
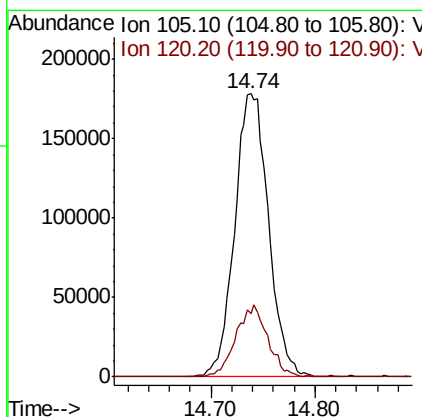
RT: 14.74 min Scan# 3717

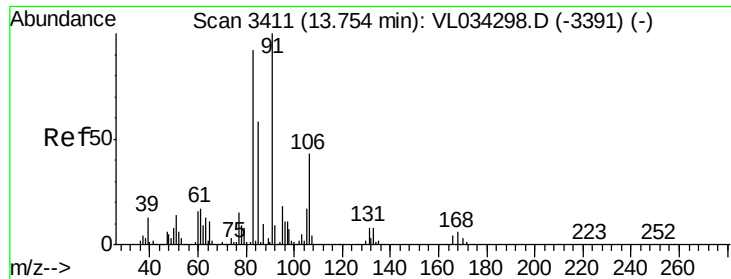
Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion:	105	Resp:	403606
Ion Ratio	Lower	Upper	
105	100		
120	24.0	20.8	31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 0.887 ppbv

RT: 13.75 min Scan# 3409

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

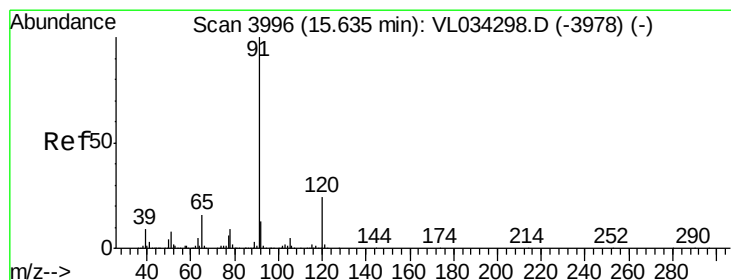
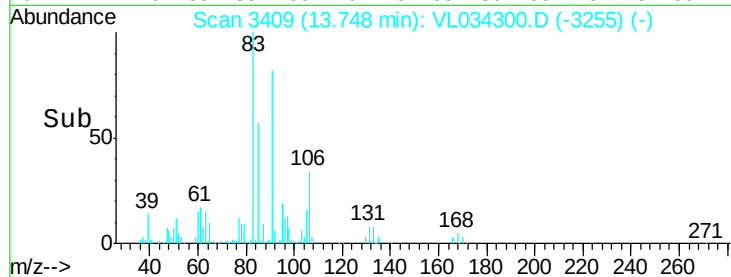
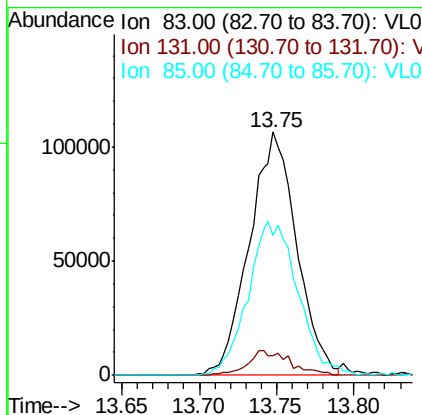
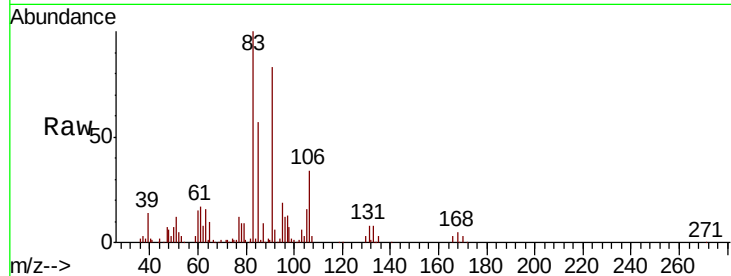
ClientSampleId :

VSTDIC001

Tot Ion:	83	Resp:	225857
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.8	14.4
85	66.9	32.5	97.4

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#64

n-propylbenzene

Concen: 1.002 ppbv m

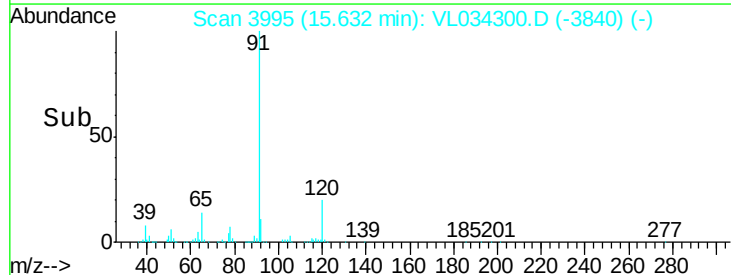
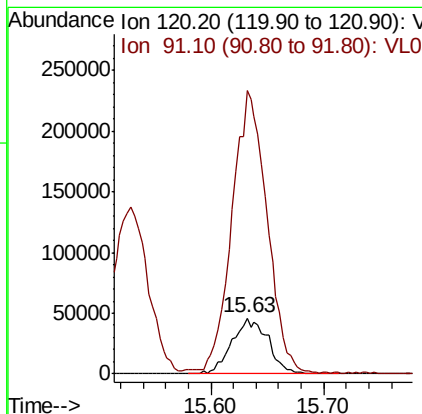
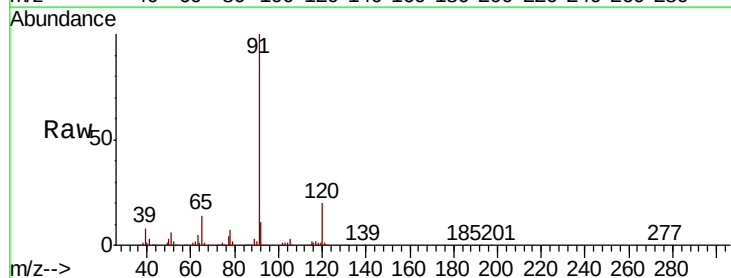
RT: 15.63 min Scan# 3995

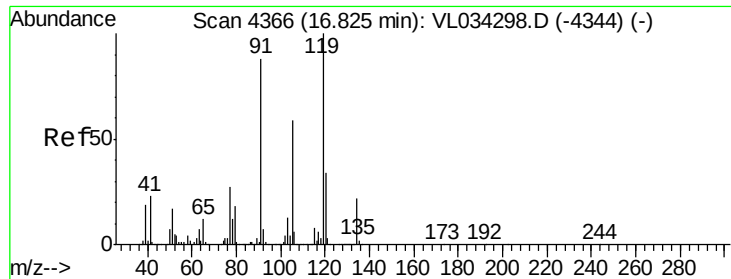
Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion:	120	Resp:	101818
Ion Ratio	Lower	Upper	
120	100		
91	501.7	374.9	562.3





#65

tert-Butylbenzene

Concen: 1.003 ppbv m

RT: 16.82 min Scan# 4365

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

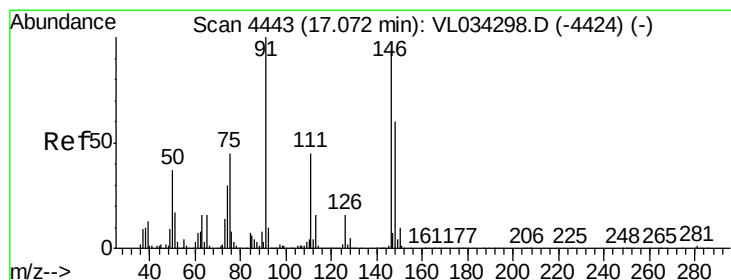
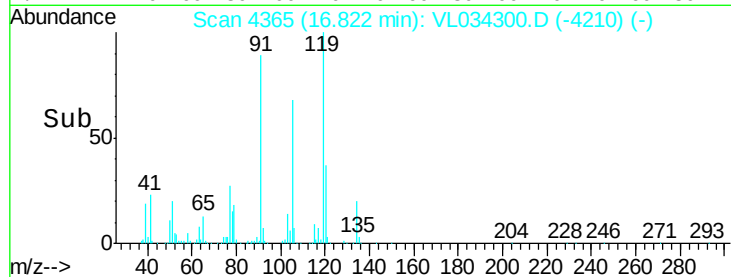
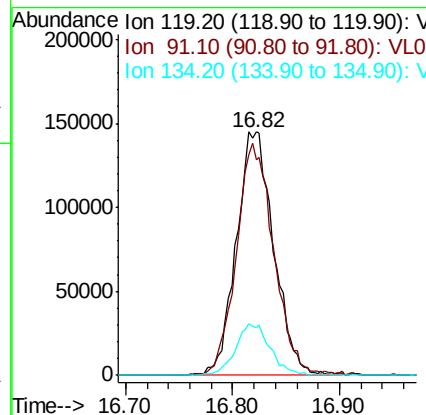
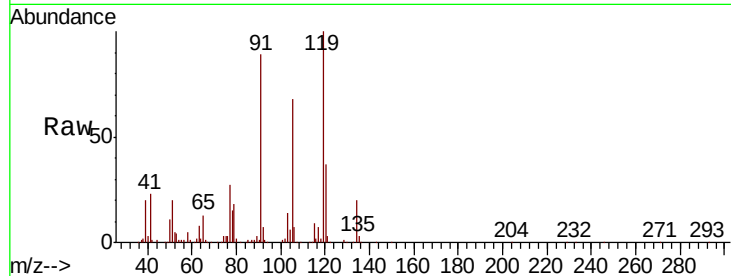
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
91	95.5	71.4	107.0
134	0.0	15.9	23.9#

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#66

Benzyl Chloride

Concen: 0.878 ppbv m

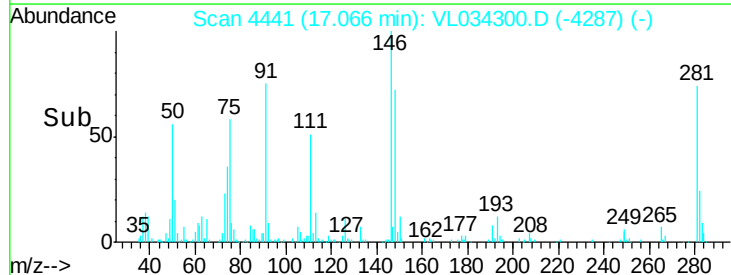
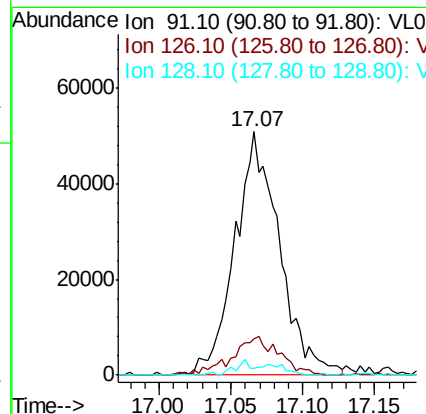
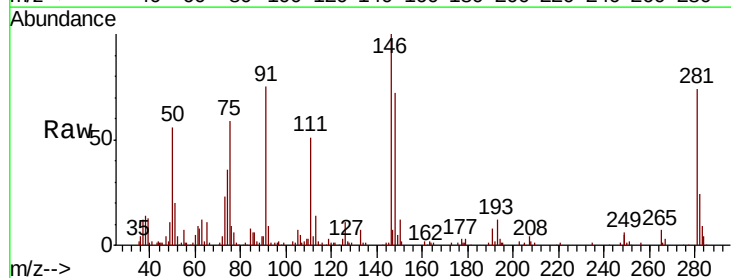
RT: 17.07 min Scan# 4441

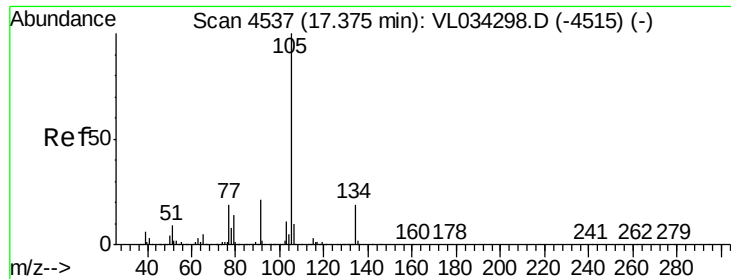
Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.1	12.9	19.3
128	4.7	4.3	6.5





#67

sec-Butylbenzene

Concen: 1.010 ppbv m

RT: 17.37 min Scan# 4534

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 507109

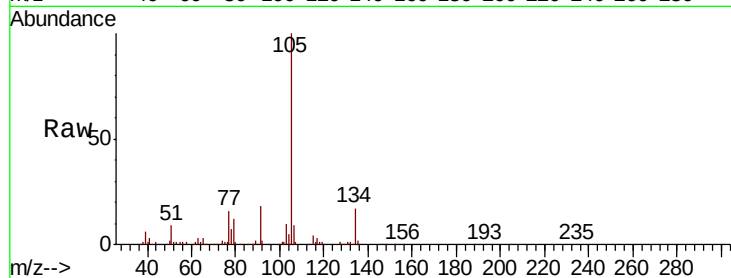
Ion Ratio Lower Upper

105 100

134 18.1 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

17.37

200000

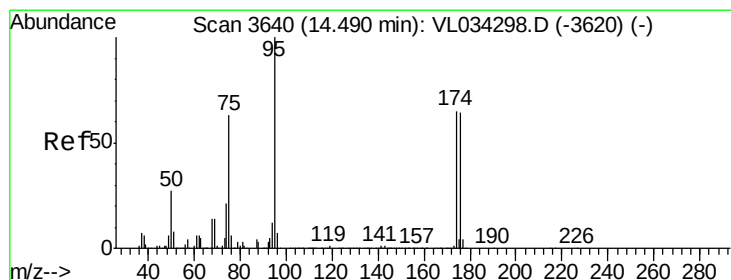
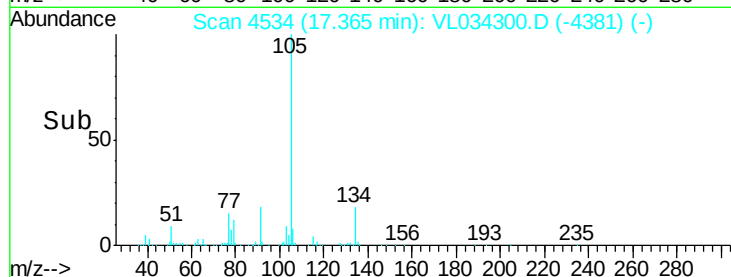
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.904 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

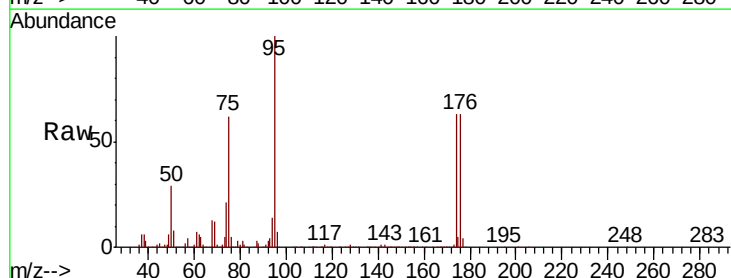
Tgt Ion: 95 Resp: 1998817

Ion Ratio Lower Upper

95 100

174 64.9 52.6 78.8

175 4.7 3.8 5.6



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

1200000

1000000

800000

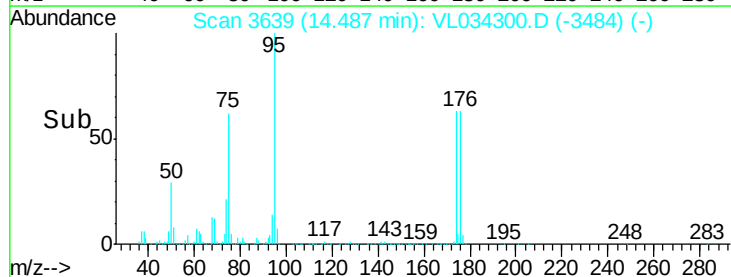
600000

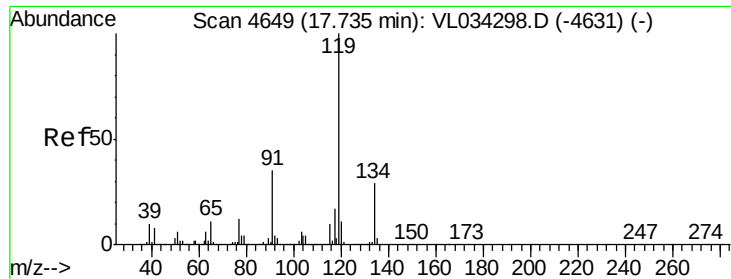
400000

200000

0

Time-->





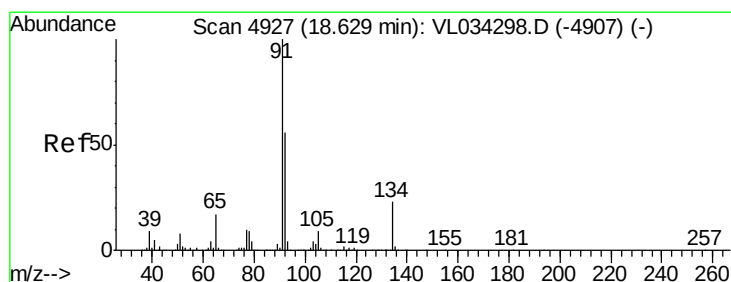
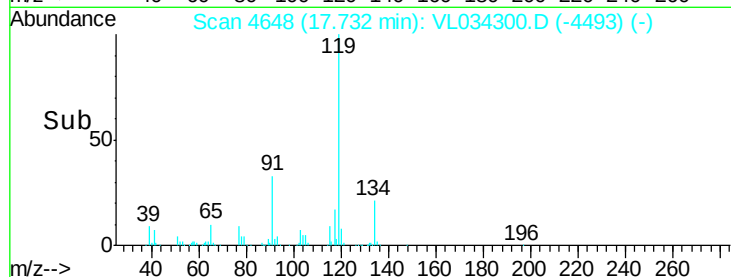
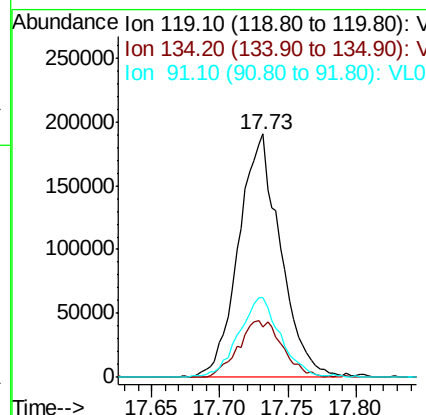
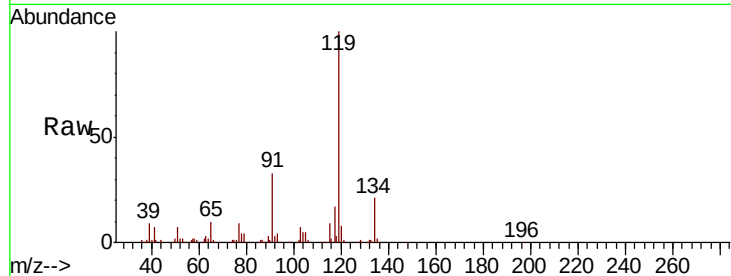
#69
 p-Isopropyltoluene
 Concen: 0.989 ppbv
 RT: 17.73 min Scan# 4648
 Delta R.T. -0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	21.3	31.9
91	33.4	26.6	39.8

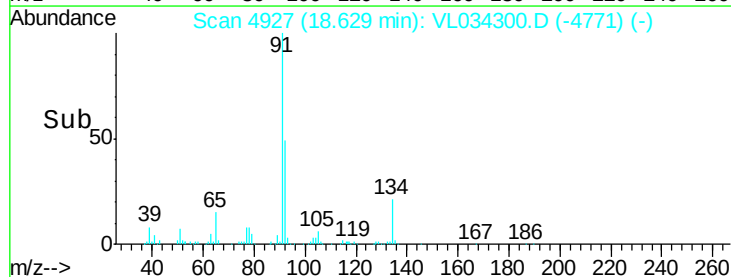
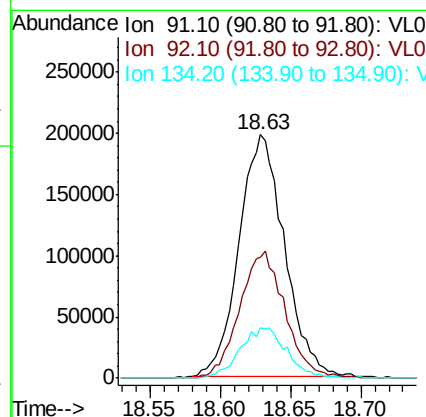
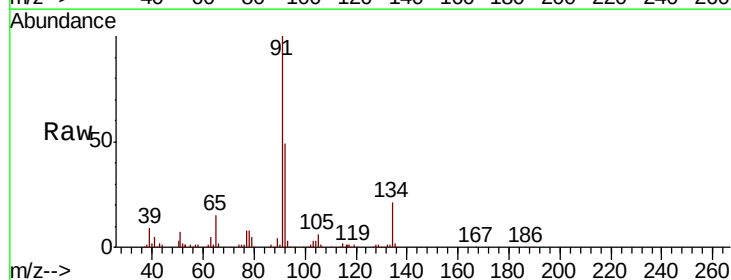
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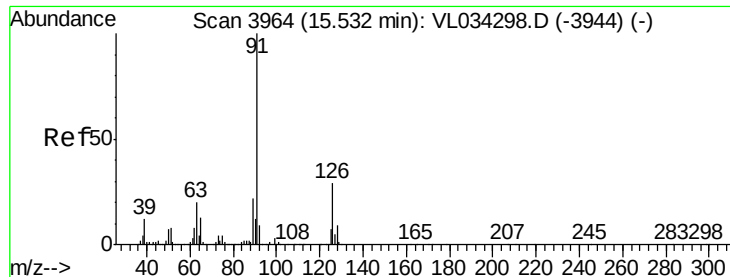
MMDadoda
 10/18/2019 3:03:52 PM



#70
 n-Butylbenzene
 Concen: 0.935 ppbv
 RT: 18.63 min Scan# 4927
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	44.5	66.7
134	21.7	18.2	27.2





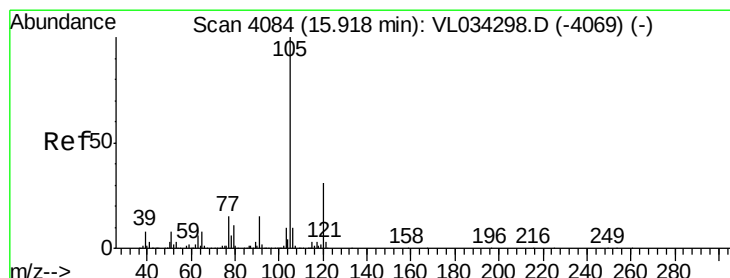
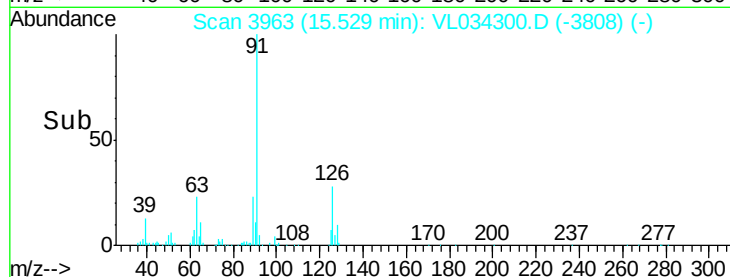
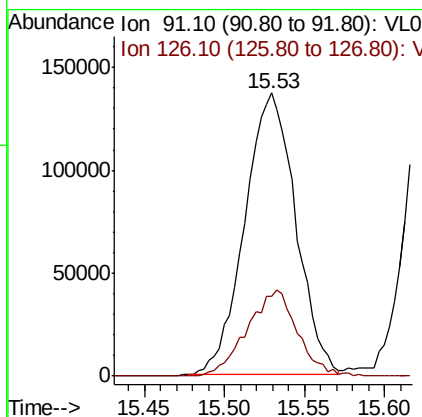
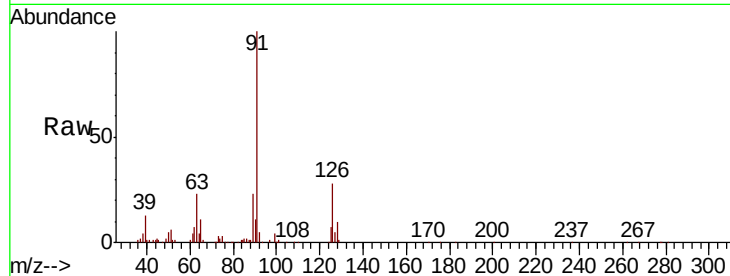
#71
 2-Chlorotoluene
 Concen: 0.905 ppbv
 RT: 15.53 min Scan# 3963
 Delta R.T. -0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
126	30.5	11.9	47.5

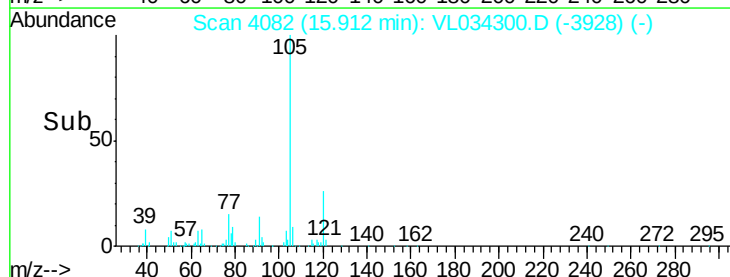
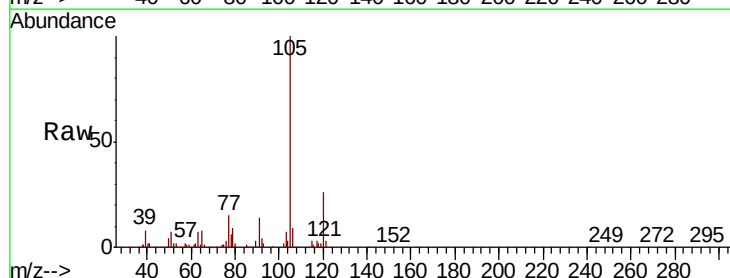
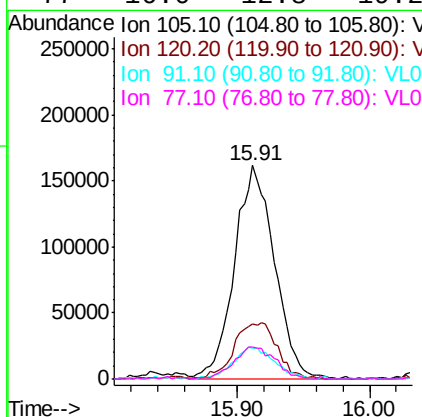
Manual Integrations
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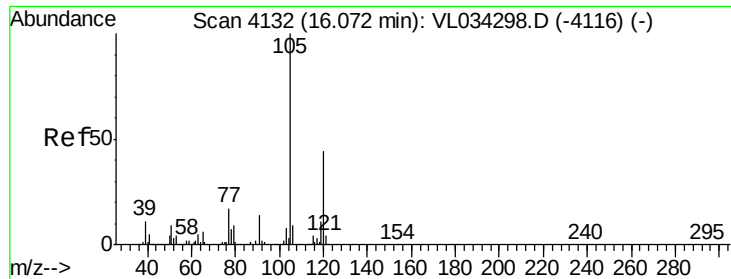
MMDadoda
 10/18/2019 3:03:52 PM



#72
 4-Ethyltoluene
 Concen: 0.961 ppbv
 RT: 15.91 min Scan# 4082
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.6	23.8	35.8
91	15.8	11.2	16.8
77	16.0	12.8	19.2





#73

1,3,5-Trimethylbenzene

Concen: 1.001 ppbv

RT: 16.07 min Scan# 4132

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 339179

Ion Ratio Lower Upper

105 100

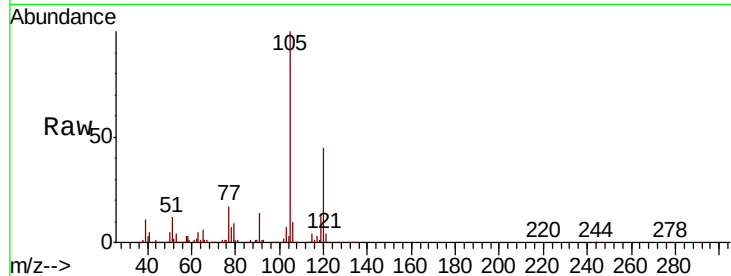
120 45.2 35.2 52.8

Manual Integrations

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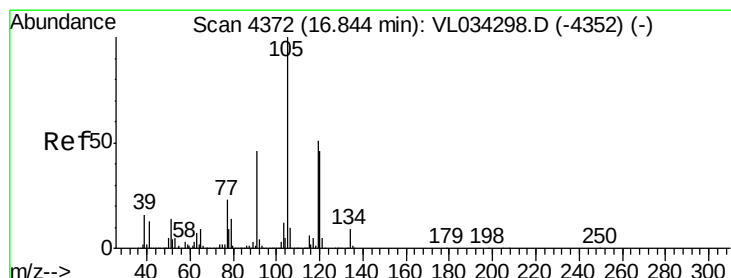
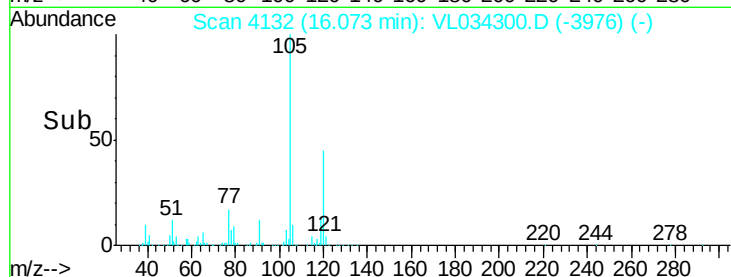
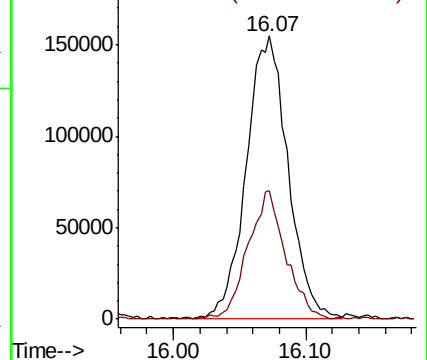
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.993 ppbv m

RT: 16.84 min Scan# 4370

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion:105 Resp: 357193

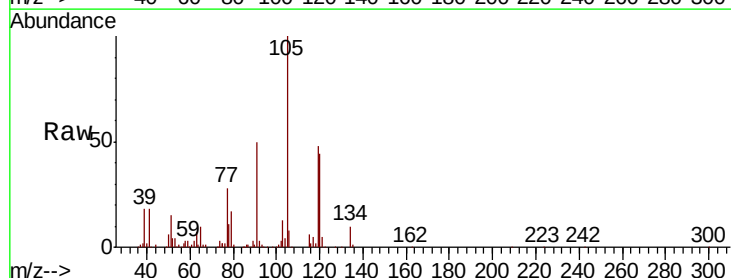
Ion Ratio Lower Upper

105 100

120 44.4 37.0 55.6

91 50.0 38.2 57.2

77 27.9 19.0 28.4

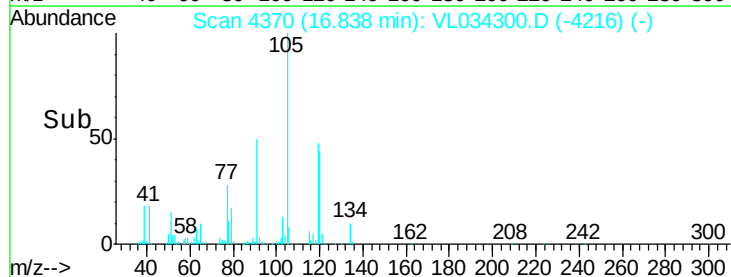
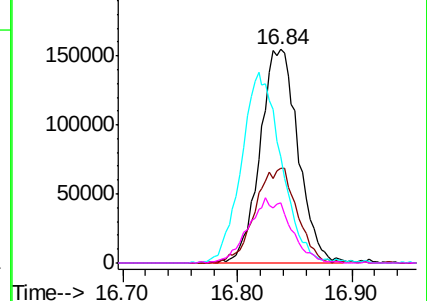


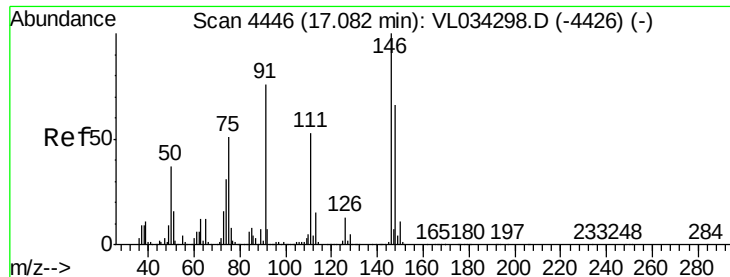
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





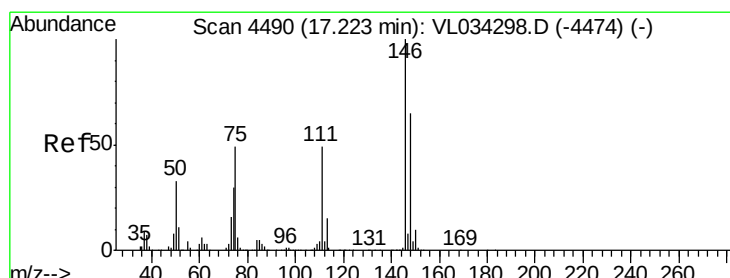
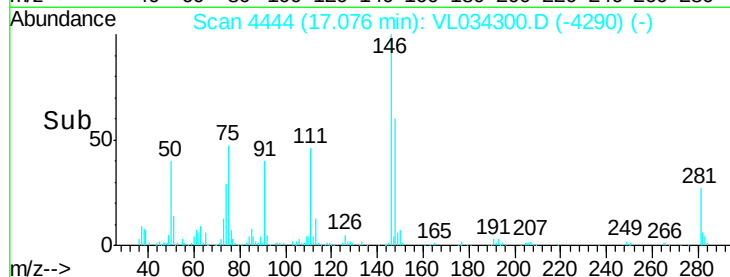
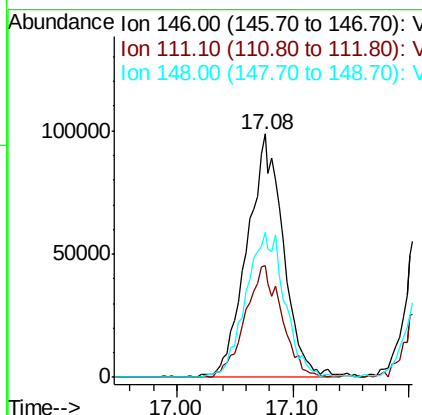
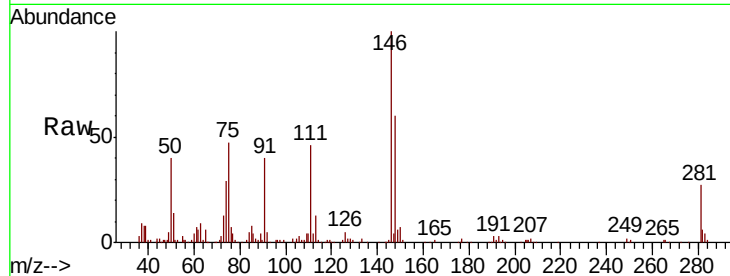
#75
 1,3-Dichlorobenzene
 Concen: 1.110 ppbv m
 RT: 17.08 min Scan# 4444
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.5	24.5	73.5
148	64.0	32.3	96.8

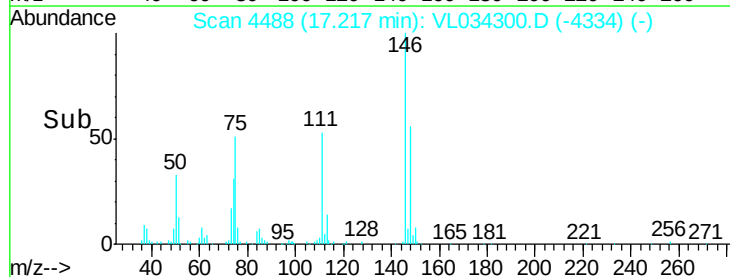
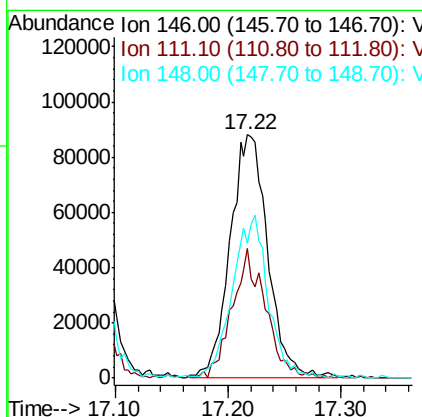
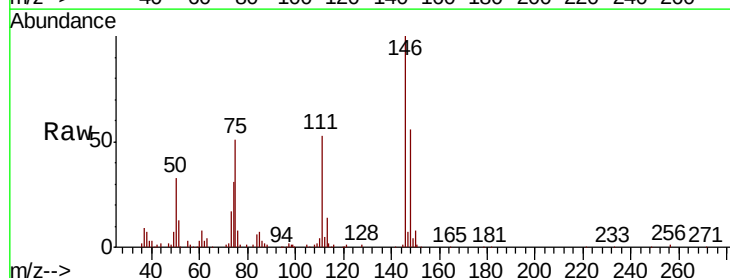
Manual Integrations
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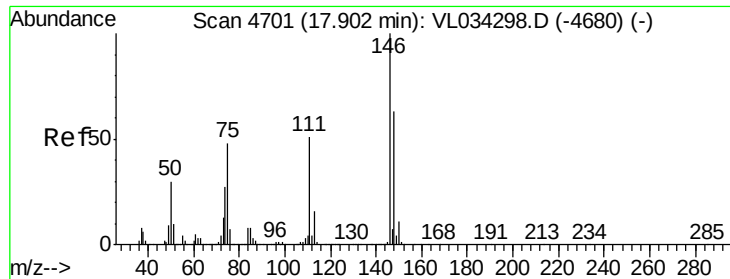
MMDadoda
 10/18/2019 3:03:52 PM



#76
 1,4-Dichlorobenzene
 Concen: 1.037 ppbv m
 RT: 17.22 min Scan# 4488
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.9	71.7
148	62.8	33.1	99.2





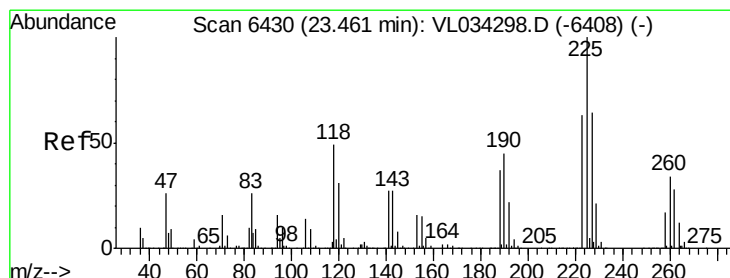
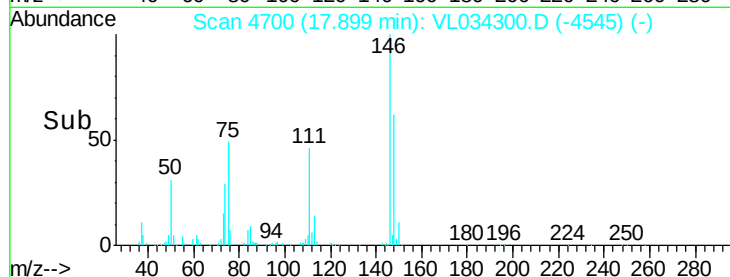
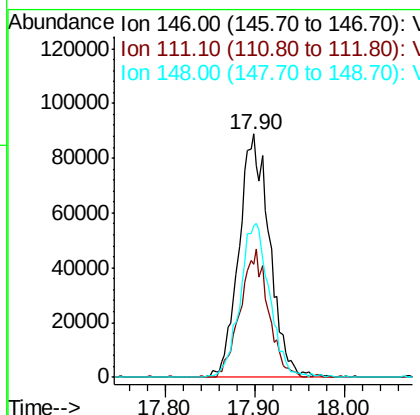
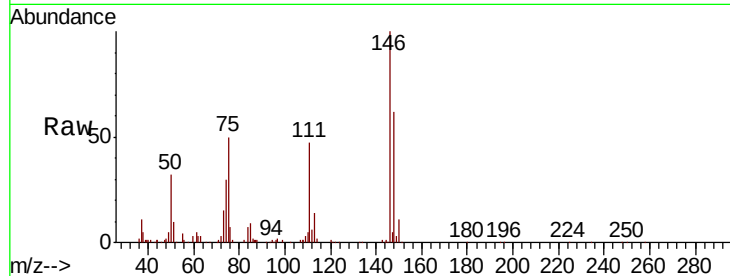
#77
 1,2-Dichlorobenzene
 Concen: 1.070 ppbv m
 RT: 17.90 min Scan# 4700
 Delta R.T. -0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	25.1	75.3
148	61.5	32.3	96.8

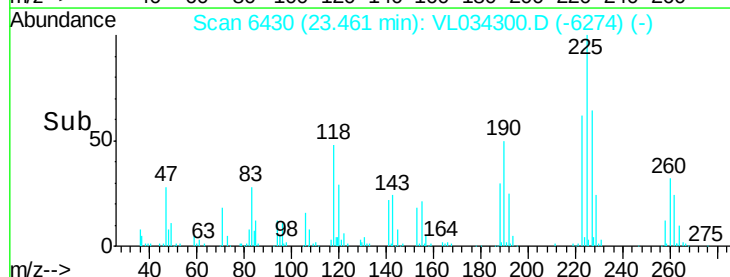
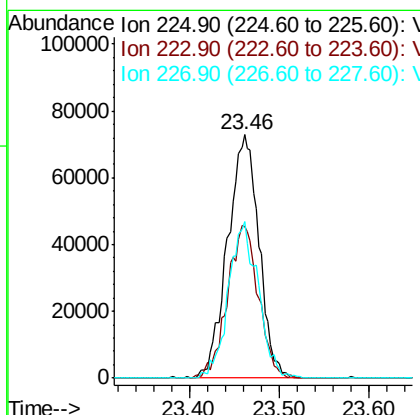
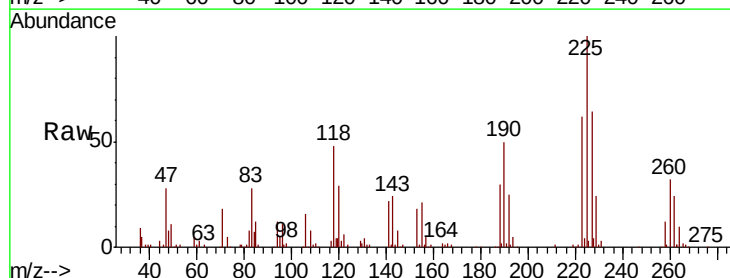
Manual Integrations
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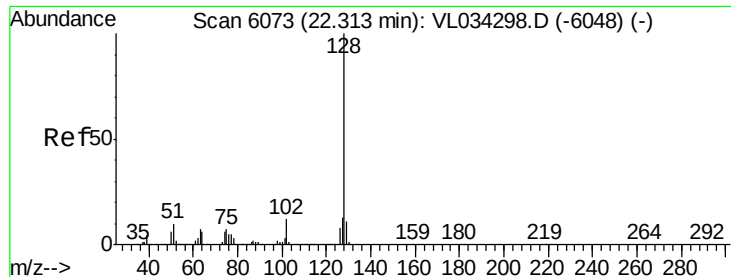
MMDadoda
 10/18/2019 3:03:52 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.364 ppbv m
 RT: 23.46 min Scan# 6430
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.6	50.8	76.2
227	61.1	51.5	77.3





#79

Naphthalene

Concen: 0.760 ppbv m

RT: 22.31 min Scan# 6071

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

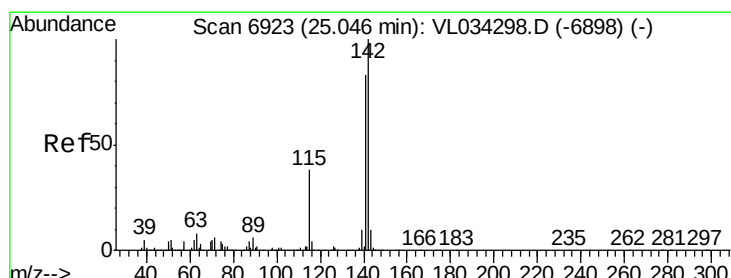
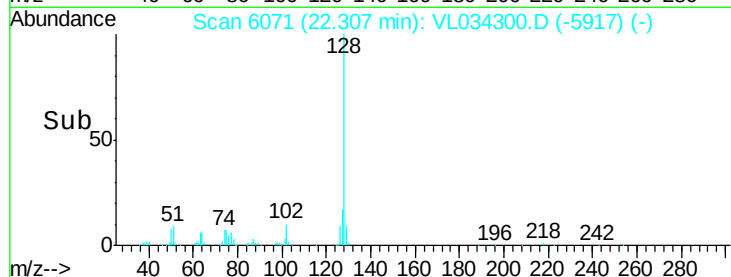
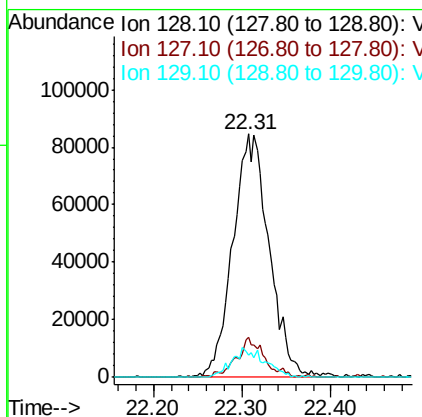
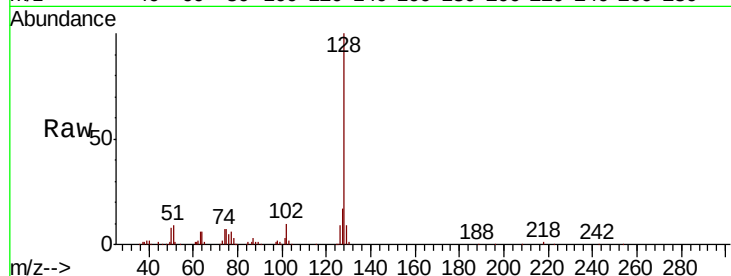
ClientSampleId :

VSTDIC001

Tot Ion:	128	Resp:	240575
Ion Ratio		Lower	Upper
128	100		
127	16.5	10.2	15.4#
129	9.1	8.9	13.3

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.270 ppbv

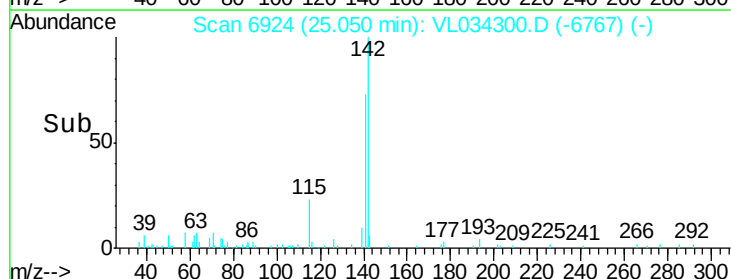
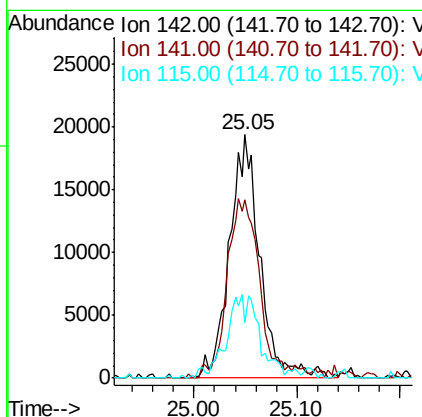
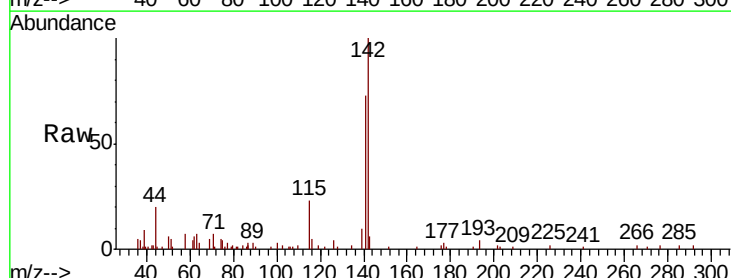
RT: 25.05 min Scan# 6924

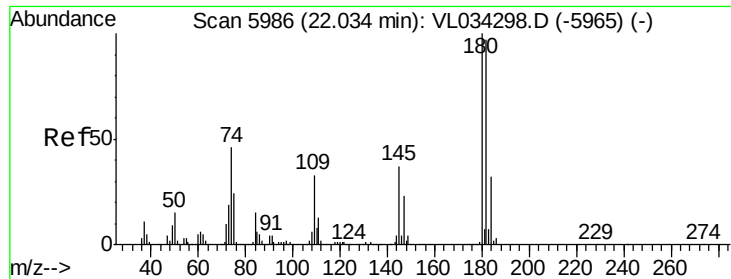
Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion:	142	Resp:	39729
Ion Ratio		Lower	Upper
142	100		
141	81.6	65.7	98.5
115	39.9	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.942 ppbv m
 RT: 22.04 min Scan# 5987
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	180	Resp:	165214
Ion Ratio	Lower	Upper	
180	100		
182	95.0	77.8	116.8
184	29.6	25.4	38.2

Manual Integrations
 APPROVED

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 10/18/2019 3:03:52 PM

