

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL033990.D
 Acq On : 2 Jul 2019 14:21
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
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 7/3/2019 11:03:28 PM

Quant Time: Jul 02 16:37:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 16:37:29 2019
 QLast Update : Tue Jul 02 16:27:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1165030	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2987865	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2991738	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	3077754	12.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	125.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	457567	2.420	ppbv	99
3) Chlorodifluoromethane	3.00	51	286488	2.089	ppbv	98
4) Chloromethane	3.16	50	169327	2.164	ppbv	99
5) Vinyl Chloride	3.27	62	182192	2.510	ppbv	94
6) Bromomethane	3.50	94	117934	2.446	ppbv	94
7) Chloroethane	3.58	64	68895	2.400	ppbv	96
8) Dichlorotetrafluoroethane	3.20	85	485874	2.405	ppbv	98
9) Propene	3.02	41	112196	2.186	ppbv	100
10) Heptane	8.21	43	280034	2.159	ppbv	100
11) Trichlorofluoromethane	3.98	101	520895	2.135	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.53	101	367107	2.227	ppbv	100
13) Ethanol	3.63	45	35886	2.149	ppbv #	35
14) Bromoethene	3.77	108	152942	2.490	ppbv	98
15) Acetone	3.89	43	382981	2.254	ppbv	98
16) 1,3-Butadiene	3.35	39	146847	2.271	ppbv	97
17) tert-Butyl alcohol	4.34	59	301658m	2.271	ppbv	
18) 1,1-Dichloroethene	4.33	96	164371	2.361	ppbv	97
19) Isopropyl Alcohol	4.01	45	247149	2.546	ppbv #	97
20) Methylene Chloride	4.39	84	171800	2.593	ppbv	92
21) Allyl Chloride	4.46	41	234057	2.425	ppbv	99
22) trans-1,2-Dichloroethene	4.94	96	163231	2.224	ppbv	98
23) Vinyl Acetate	5.13	43	429351	2.174	ppbv	98
24) 1,1-Dichloroethane	5.07	63	364234	2.371	ppbv	98
25) Ethyl Acetate	5.74	43	568286	2.196	ppbv	99
26) Hexane	5.75	57	262487	2.228	ppbv	98
27) Carbon Disulfide	4.60	76	387283	2.366	ppbv	96
28) Methyl tert-Butyl Ether	5.09	73	445856	2.503	ppbv	98
29) Chloroform	5.82	83	478212	2.370	ppbv	99
30) Cyclohexane	7.22	84	202011m	2.427	ppbv	
31) cis-1,2-Dichloroethene	5.62	61	250154	2.421	ppbv	95
32) 1,1,1-Trichloroethane	6.59	97	465885	2.393	ppbv	99
34) 2-Butanone	5.31	43	353732	2.099	ppbv	96
35) Carbon Tetrachloride	7.10	117	471336	2.042	ppbv	94
36) Benzene	6.98	78	496253	2.174	ppbv	95
37) 1,2-Dichloroethane	6.38	62	360718	2.137	ppbv	99
38) Trichloroethene	7.93	130	214852	2.418	ppbv	91
39) 1,2-Dichloropropane	7.70	63	181983	2.066	ppbv	93
40) 1,4-Dioxane	7.94	88	80762m	2.248	ppbv	
41) Tetrahydrofuran	6.13	42	171422	2.004	ppbv	96
42) Bromodichloromethane	7.89	83	485747	2.153	ppbv	89
43) Methyl Methacrylate	8.10	69	185553	2.174	ppbv	95

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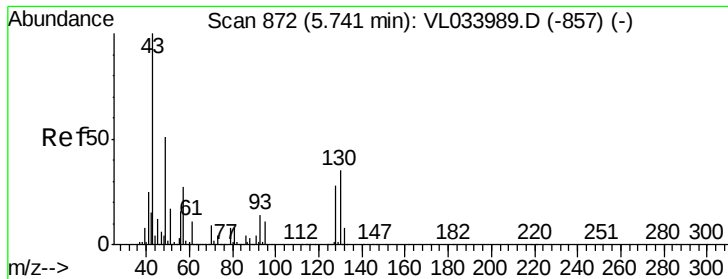
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.96	57	869410	2.142	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	234657	2.095	ppbv	99
46) cis-1,3-Dichloropropene	8.80	75	272849	2.126	ppbv	92
47) 1,1,2-Trichloroethane	9.58	97	229377m	2.184	ppbv	
48) Dibromochloromethane	10.42	129	399609	2.117	ppbv	99
49) Bromoform	13.16	173	384034m	2.305	ppbv	
50) 4-Methyl-2-Pentanone	8.85	43	508986	2.025	ppbv	99
51) 2-Hexanone	10.25	43	390006	1.987	ppbv #	97
52) Tetrachloroethene	11.34	164	204475	2.546	ppbv	93
53) Toluene	9.91	91	580186	2.297	ppbv	98
54) 1,2-Dibromoethane	10.72	107	337007m	2.129	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.24	131	283284	2.168	ppbv #	1
57) Chlorobenzene	12.26	112	497039	2.218	ppbv #	93
58) Ethyl Benzene	12.83	91	789713	2.341	ppbv	94
59) m/p-Xylene	13.11	91	1427324m	4.653	ppbv	
60) o-Xylene	13.81	91	732668	2.313	ppbv	97
61) Styrene	13.65	104	473655	2.311	ppbv	97
62) Isopropylbenzene	14.79	105	1284148	3.008	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.80	83	511161	2.144	ppbv	100
64) n-propylbenzene	15.69	120	333925m	3.055	ppbv	
65) tert-Butylbenzene	16.87	119	911695	2.308	ppbv	99
66) Benzyl Chloride	17.12	91	424390	2.120	ppbv	99
67) sec-Butylbenzene	17.42	105	1258868	2.272	ppbv	99
69) p-Isopropyltoluene	17.78	119	1061104	2.302	ppbv	99
70) n-Butylbenzene	18.68	91	1102087	2.183	ppbv	99
71) 2-Chlorotoluene	15.58	91	966120	3.072	ppbv	98
72) 4-Ethyltoluene	15.96	105	1081830	3.002	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	812162	2.288	ppbv	98
74) 1,2,4-Trimethylbenzene	16.89	105	901176	2.203	ppbv	97
75) 1,3-Dichlorobenzene	17.13	146	557792	2.177	ppbv	99
76) 1,4-Dichlorobenzene	17.27	146	529783	2.252	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	528311m	2.234	ppbv	
78) Hexachloro-1,3-Butadiene	23.50	225	464613m	2.516	ppbv	
79) Naphthalene	22.37	128	791685m	2.421	ppbv	
80) Naphthalene, 2-methyl-	25.08	142	344329	2.639	ppbv	95
81) 1,2,4-Trichlorobenzene	22.09	180	498176	2.413	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1165030

Ion Ratio Lower Upper

49 100

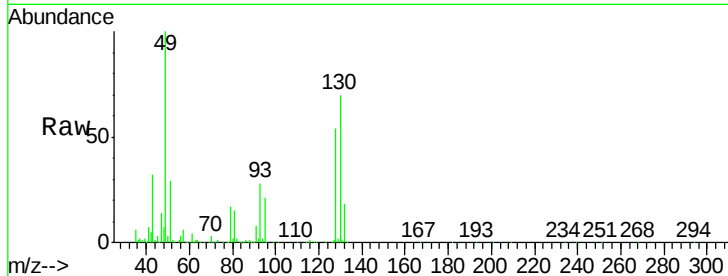
128 55.7 27.9 83.6

130 71.8 35.8 107.4

Manual Integrations
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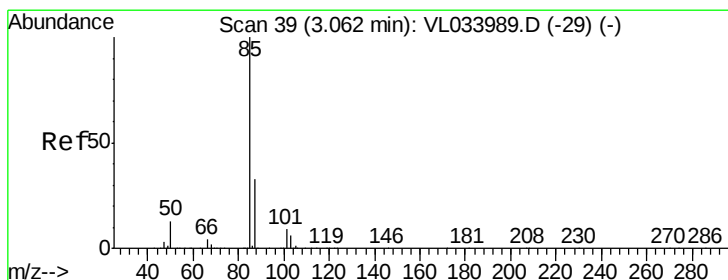
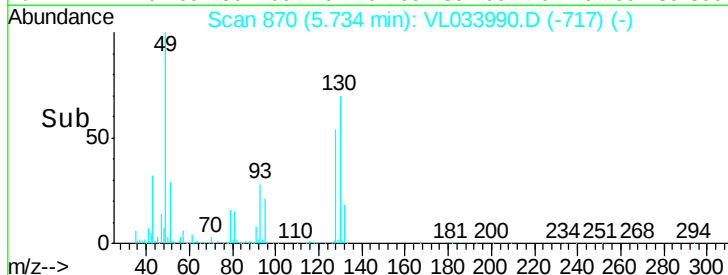
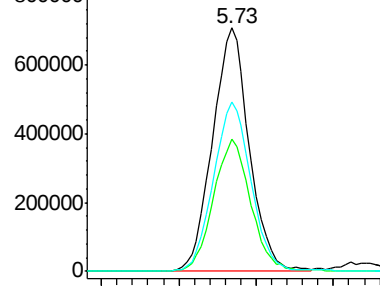
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 2.420 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.00 min

Lab File: VL033990.D

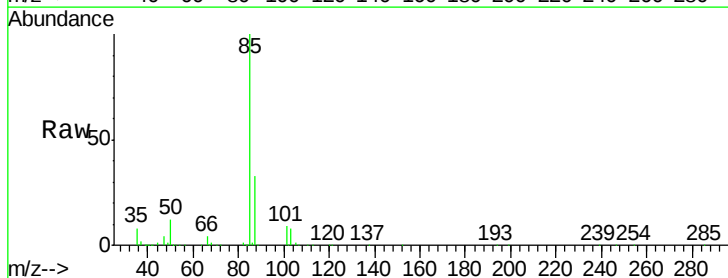
Acq: 2 Jul 2019 14:21

Tgt Ion: 85 Resp: 457567

Ion Ratio Lower Upper

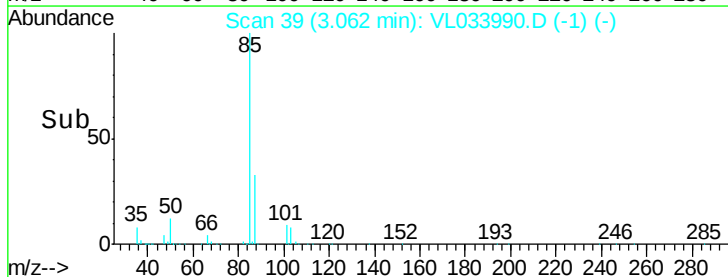
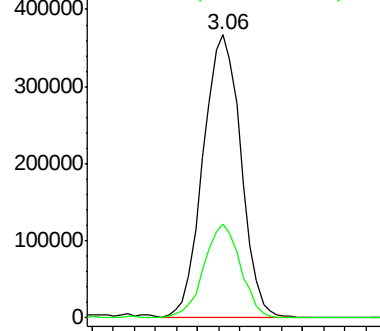
85 100

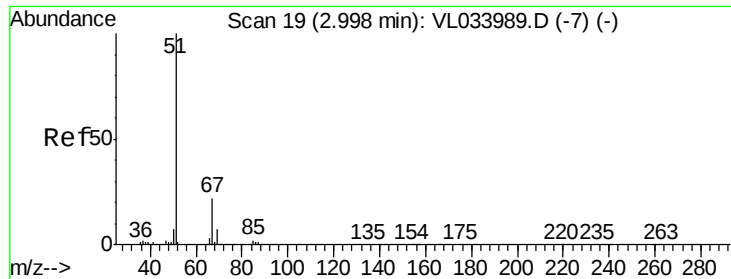
87 33.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





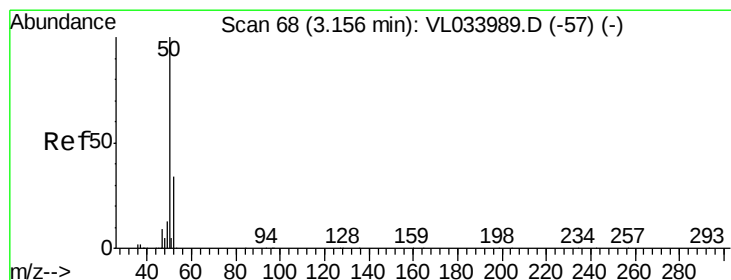
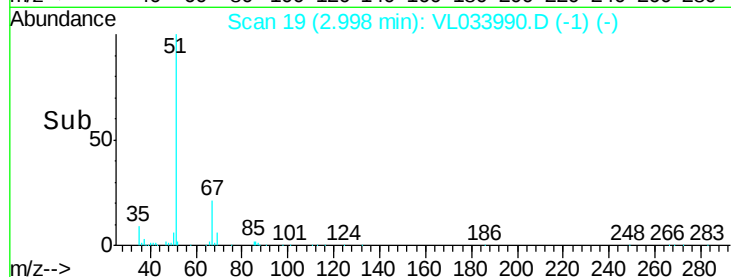
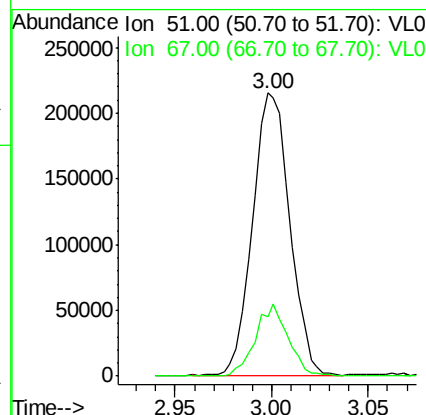
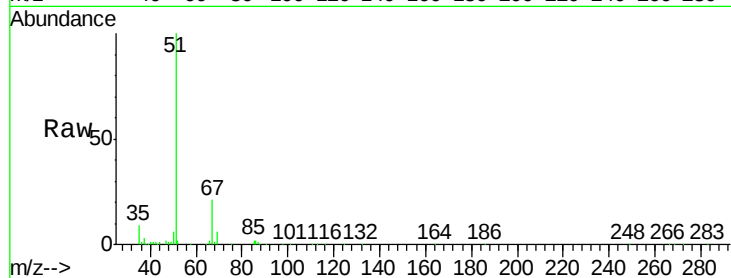
#3
Chlorodifluoromethane
Concen: 2.089 ppbv
RT: 3.00 min Scan# 19
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
51	100		
67	22.6	17.3	25.9

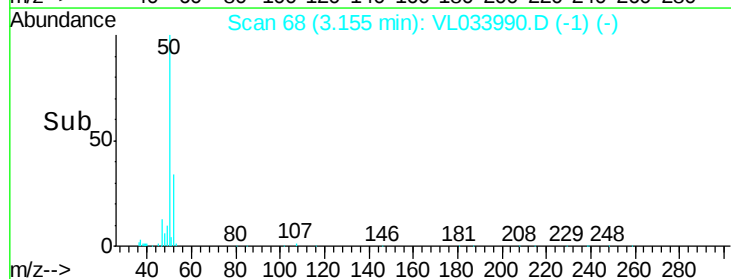
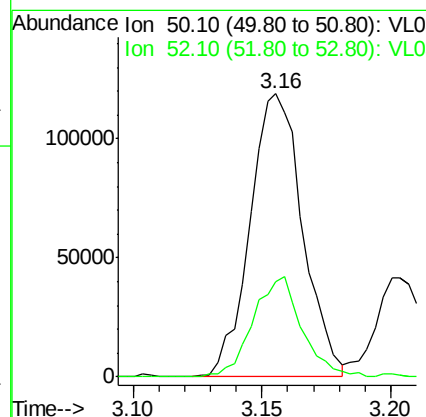
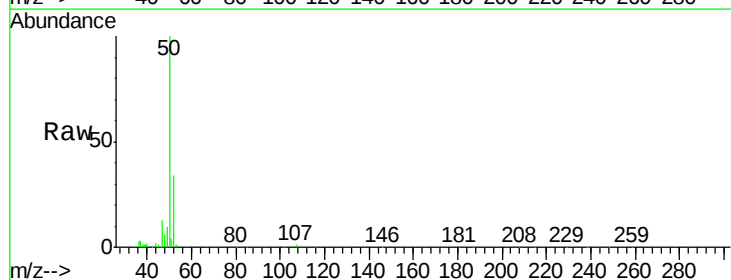
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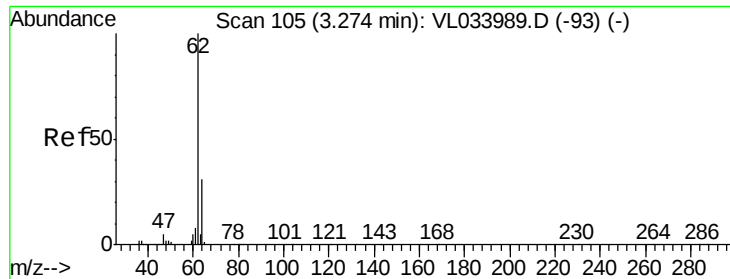
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#4
Chloromethane
Concen: 2.164 ppbv
RT: 3.16 min Scan# 68
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.4	41.0





#5

Vinyl Chloride

Concen: 2.510 ppbv

RT: 3.27 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 182192

Ion Ratio Lower Upper

62 100

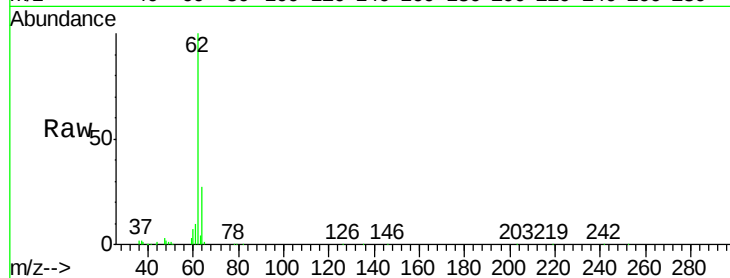
64 27.4 24.4 36.6

Manual Integrations

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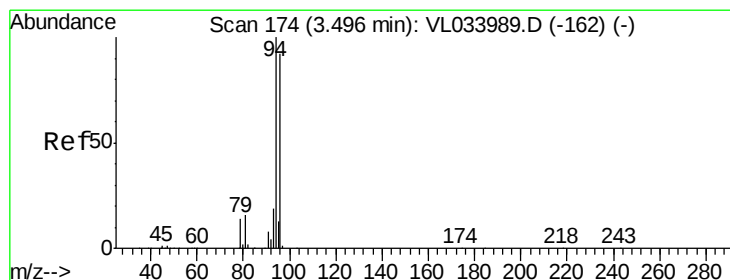
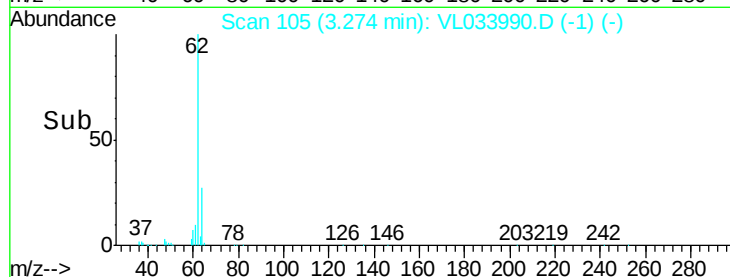
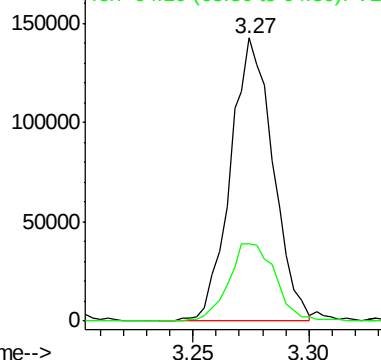
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 2.446 ppbv

RT: 3.50 min Scan# 174

Delta R.T. -0.00 min

Lab File: VL033990.D

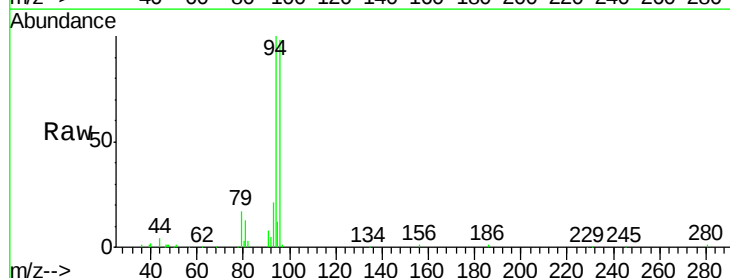
Acq: 2 Jul 2019 14:21

Tgt Ion: 94 Resp: 117934

Ion Ratio Lower Upper

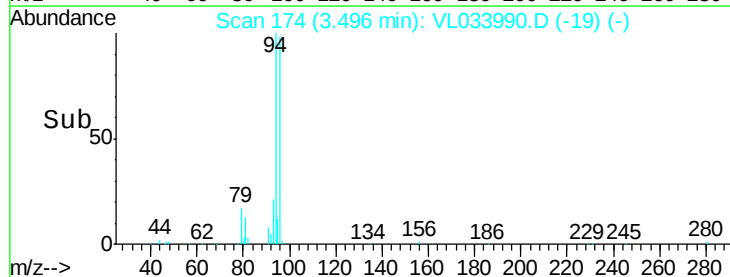
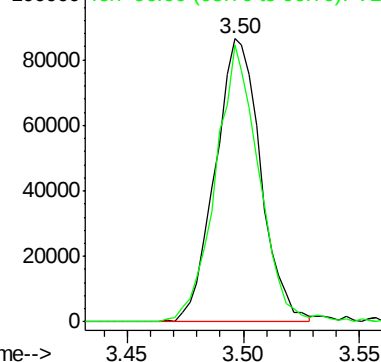
94 100

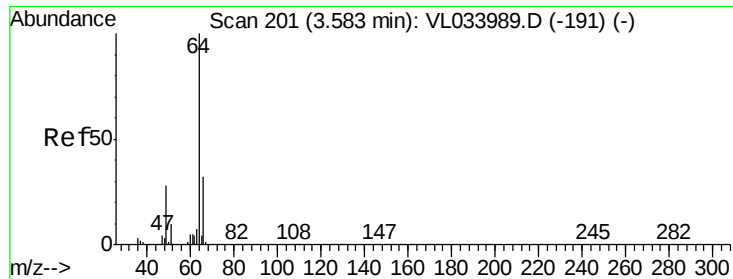
96 97.8 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 2.400 ppbv

RT: 3.58 min Scan# 201

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 68895

Ion Ratio Lower Upper

64 100

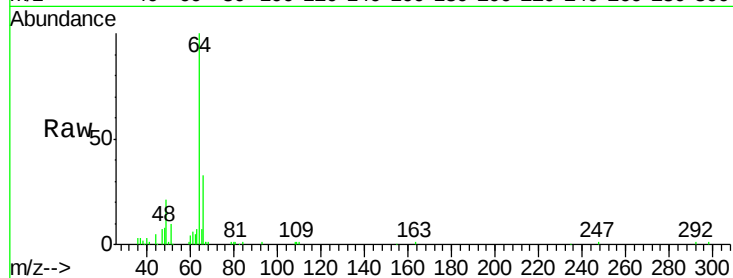
66 33.6 25.3 37.9

Manual Integrations

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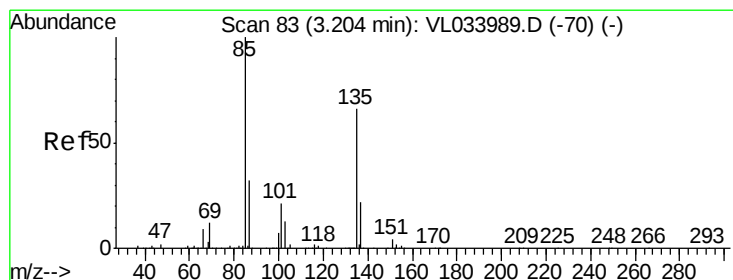
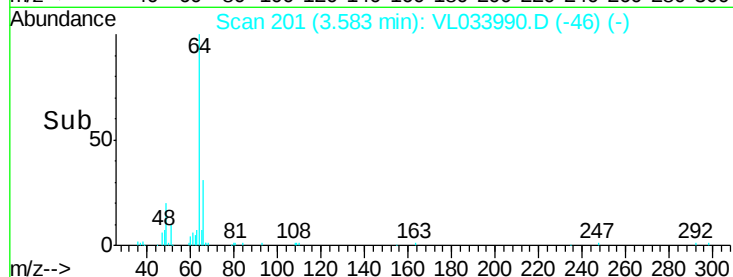
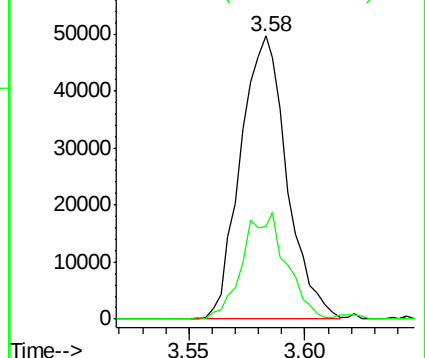
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.405 ppbv

RT: 3.20 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL033990.D

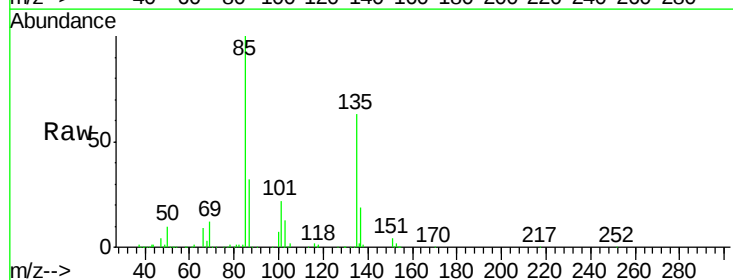
Acq: 2 Jul 2019 14:21

Tgt Ion: 85 Resp: 485874

Ion Ratio Lower Upper

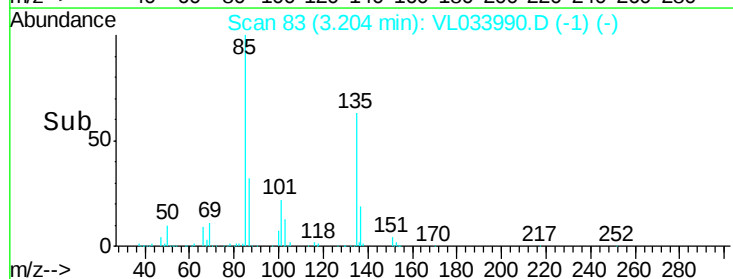
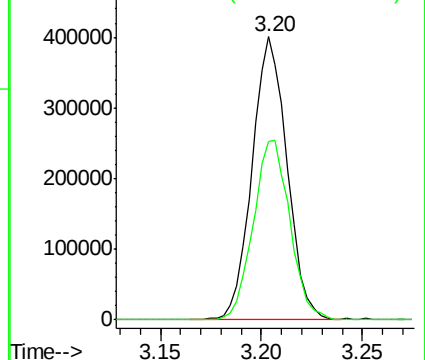
85 100

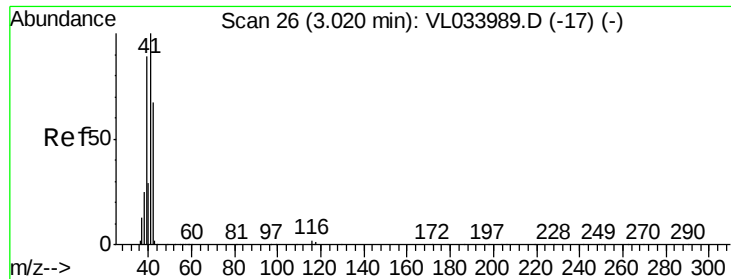
135 66.8 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





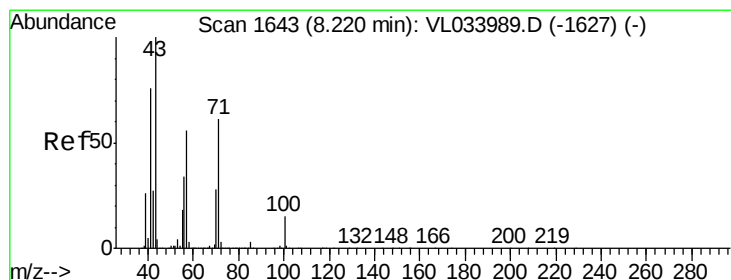
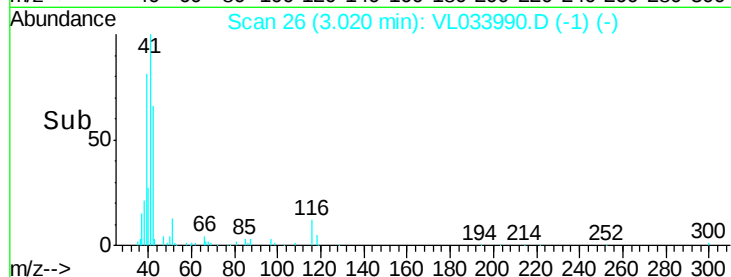
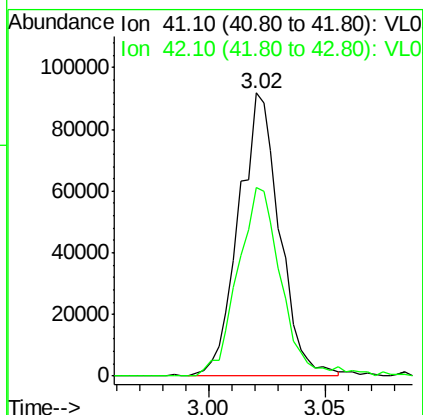
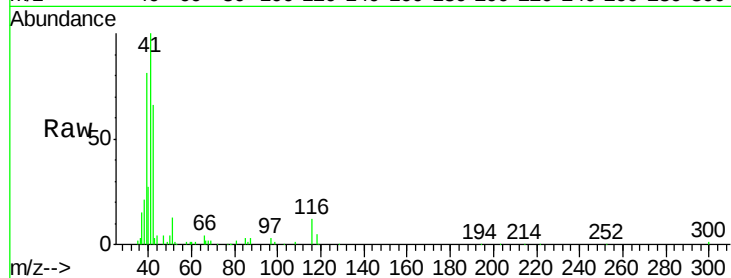
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 Propene
 Concen: 2.186 ppbv
 RT: 3.02 min Scan# 26
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 41 Resp: 112196
 Ion Ratio Lower Upper
 41 100
 42 71.8 57.1 85.7

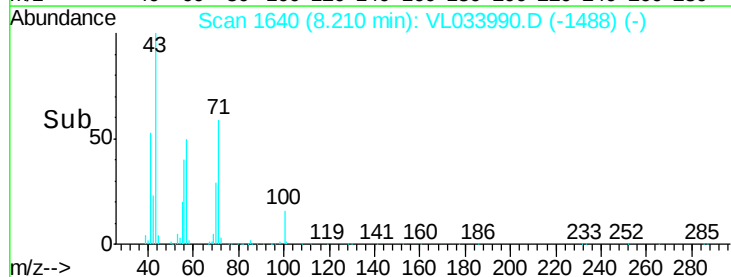
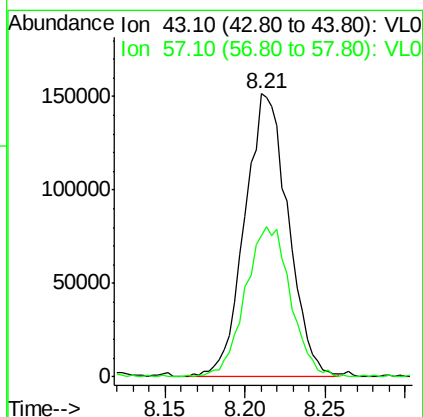
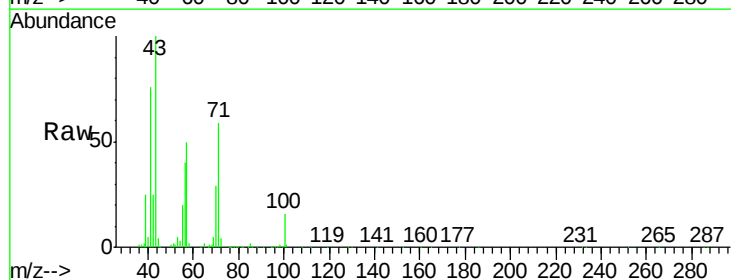
Manual Integrations
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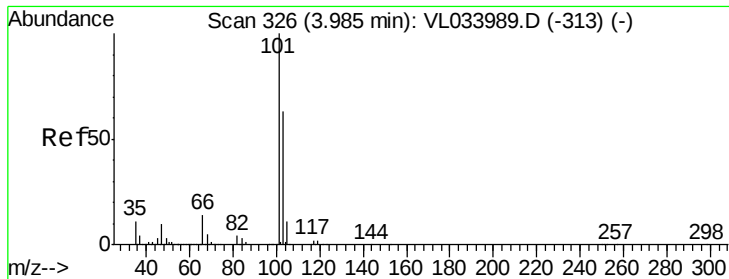
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#10
 Heptane
 Concen: 2.159 ppbv
 RT: 8.21 min Scan# 1640
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion: 43 Resp: 280034
 Ion Ratio Lower Upper
 43 100
 57 55.7 44.6 66.8





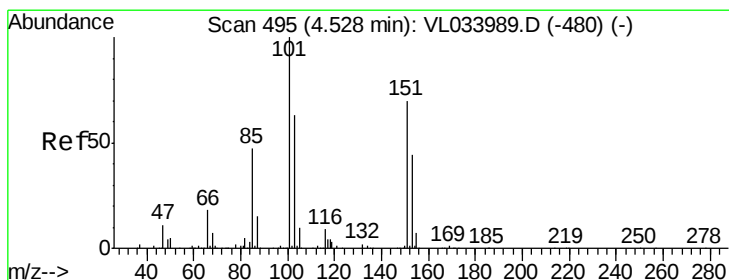
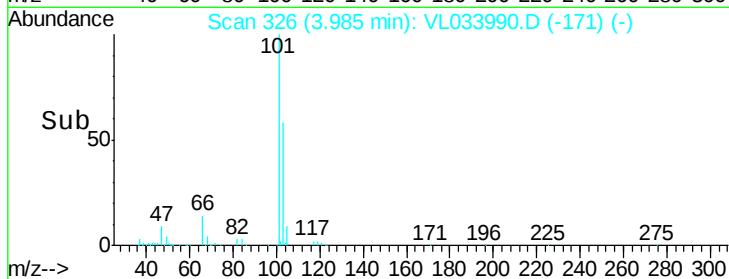
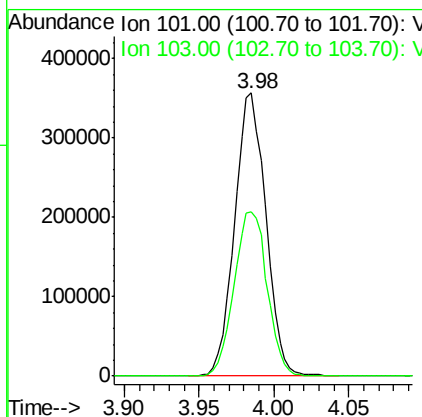
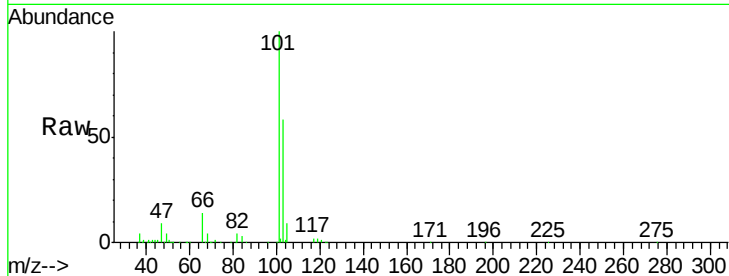
#11
 Trichlorofluoromethane
 Concen: 2.135 ppbv
 RT: 3.98 min Scan# 326
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.0	50.8	76.2

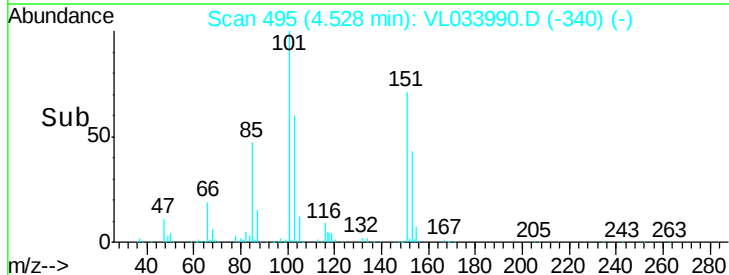
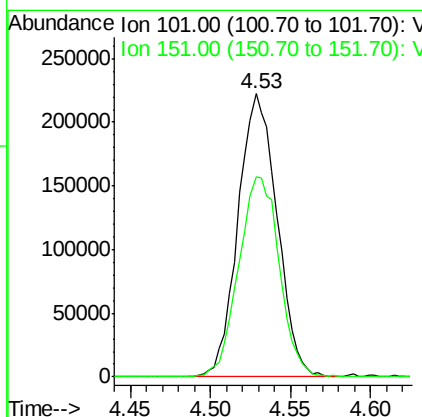
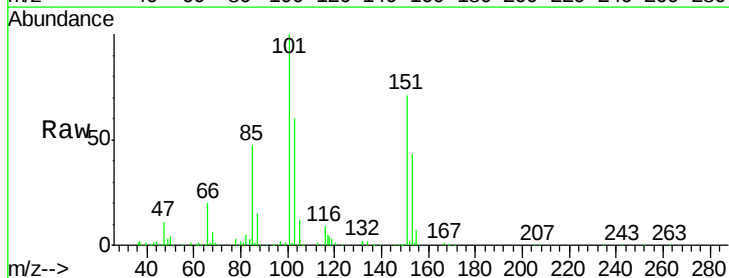
Manual Integrations
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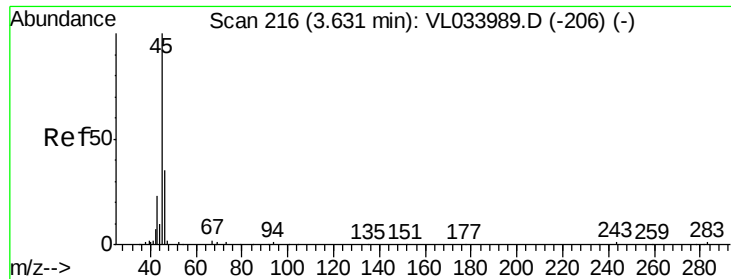
MMDadoda
 7/3/2019 11:03:28 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.227 ppbv
 RT: 4.53 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
101	100		
151	73.9	59.0	88.4





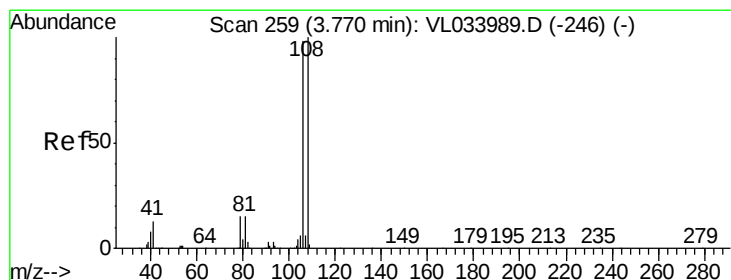
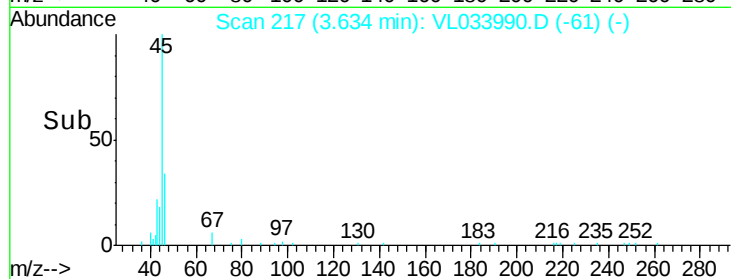
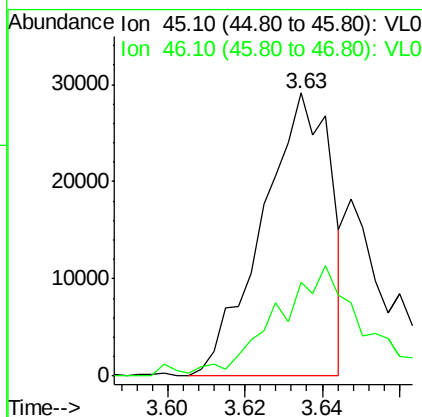
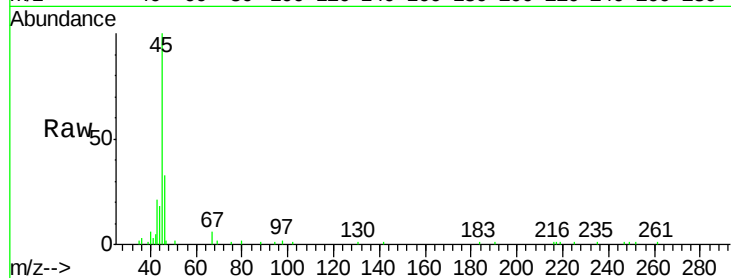
#13
Ethanol
Concen: 2.149 ppbv
RT: 3.63 min Scan# 217
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	16.2	64.6#

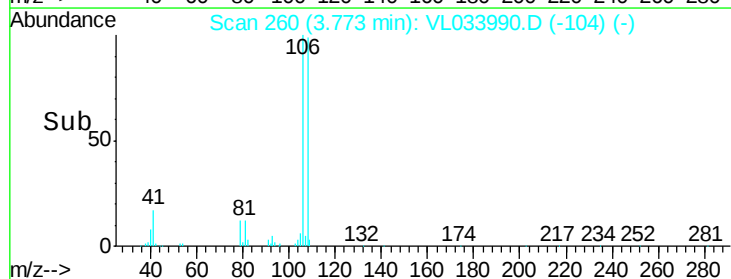
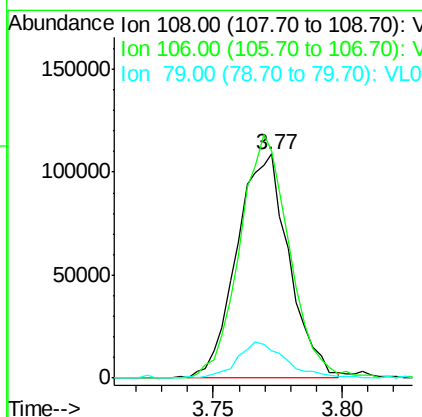
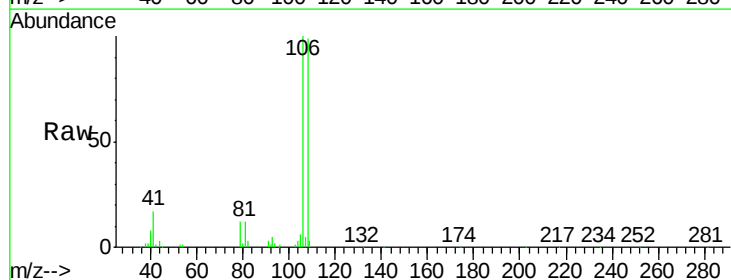
Manual Integrations
APPROVED

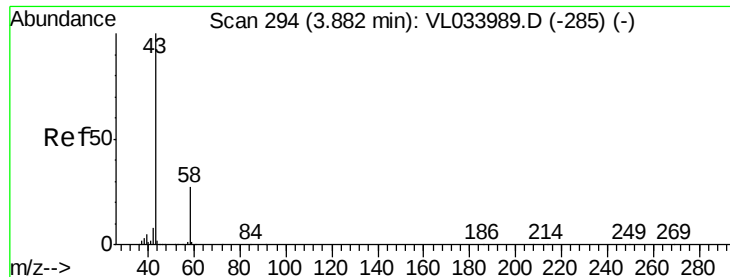
MMDadoda
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#14
Bromoethene
Concen: 2.490 ppbv
RT: 3.77 min Scan# 260
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.2	85.6	128.4
79	15.9	14.0	21.0





#15

Acetone

Concen: 2.254 ppbv

RT: 3.89 min Scan# 295

Delta R.T. 0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 382981

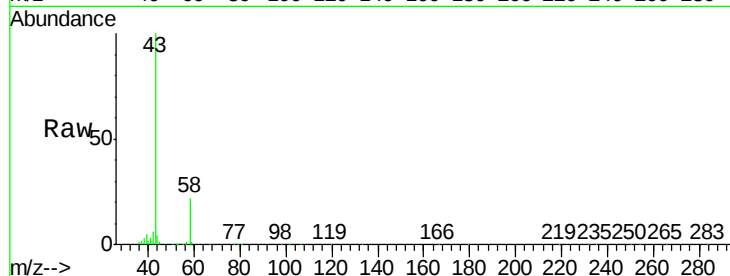
Ion Ratio Lower Upper

43 100

58 27.8 21.4 32.0

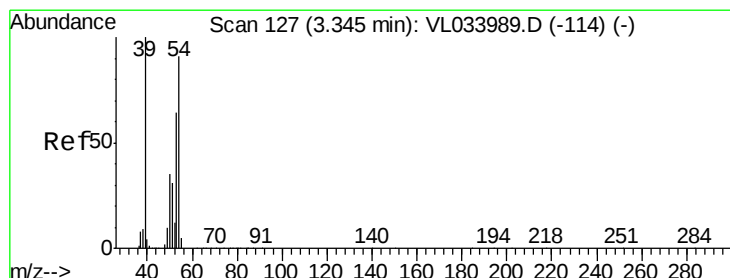
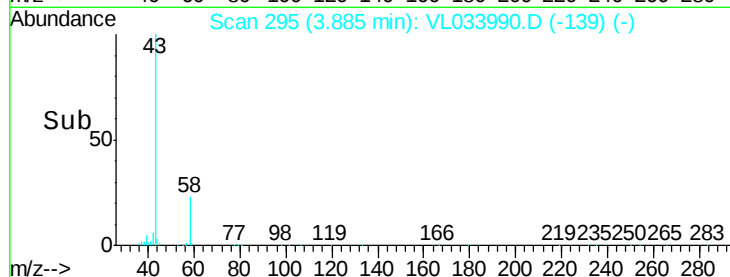
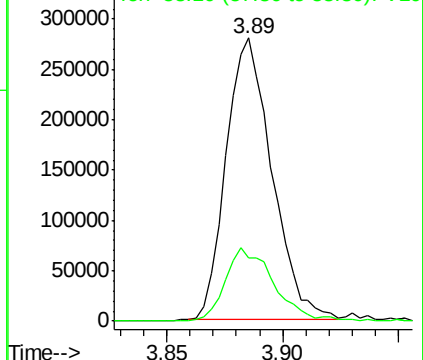
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 2.271 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.00 min

Lab File: VL033990.D

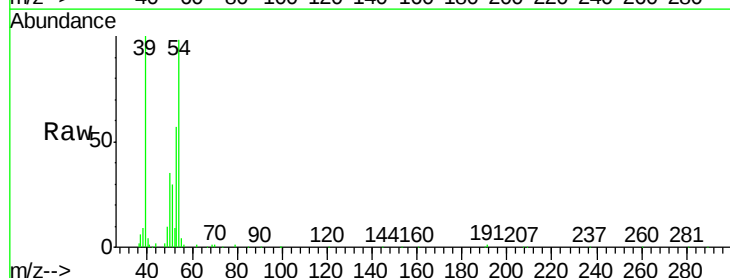
Acq: 2 Jul 2019 14:21

Tgt Ion: 39 Resp: 146847

Ion Ratio Lower Upper

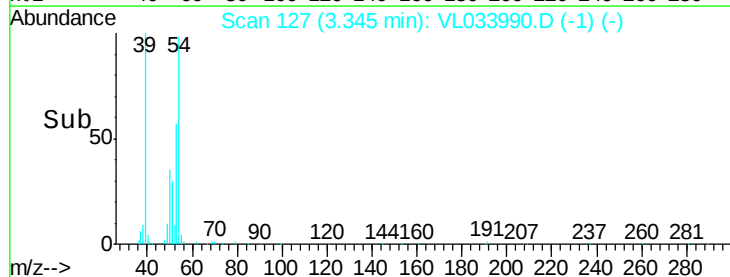
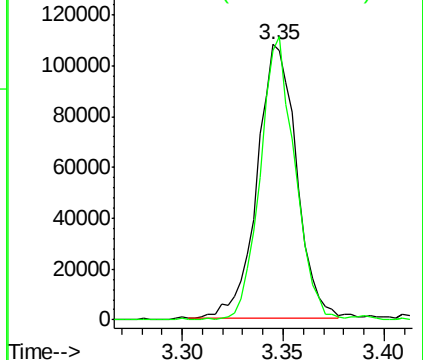
39 100

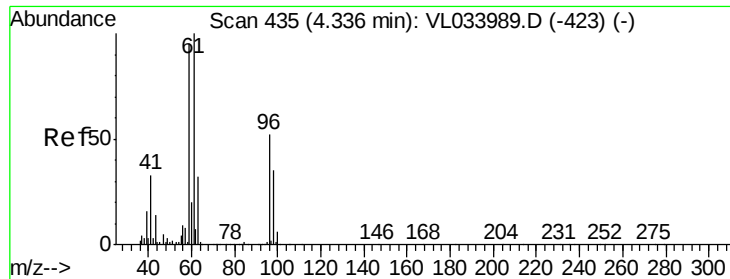
54 92.1 71.4 107.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





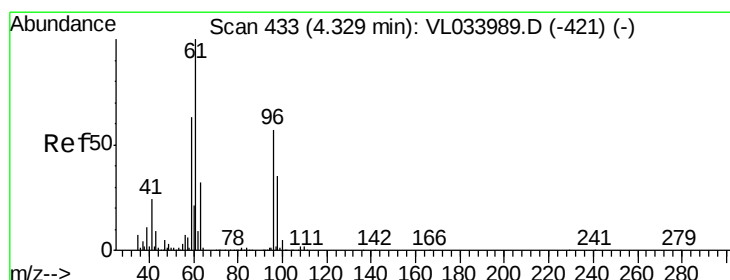
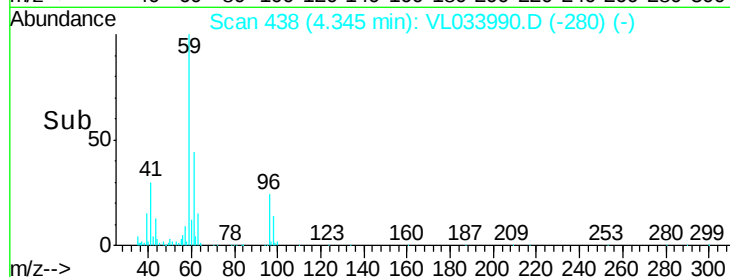
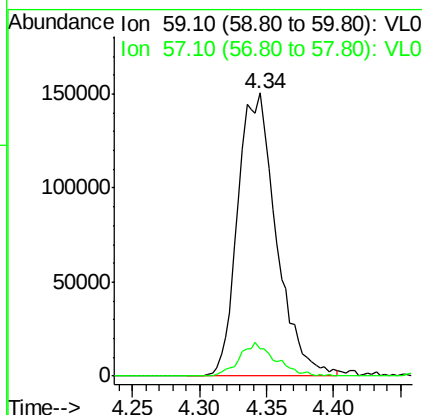
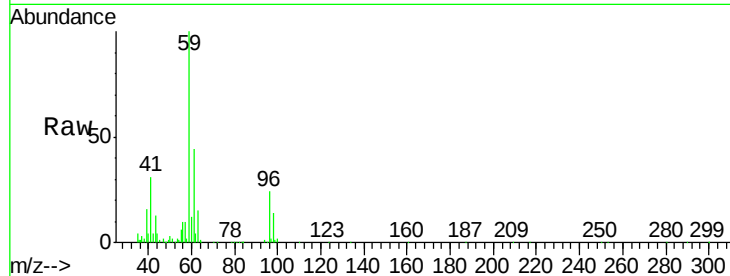
#17
tert-Butyl alcohol
Concen: 2.271 ppbv
RT: 4.34 min Scan# 438
Delta R.T. 0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

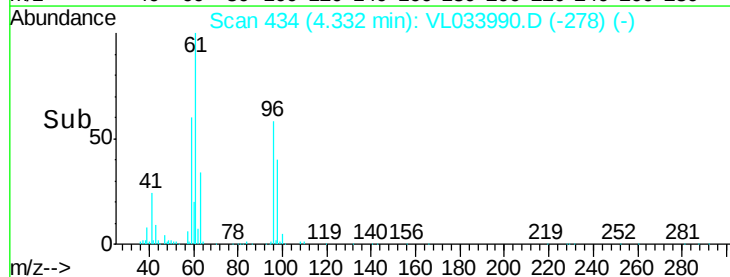
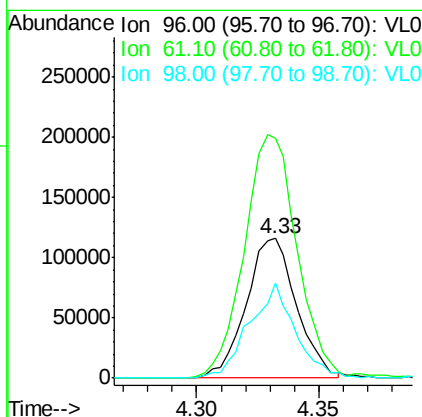
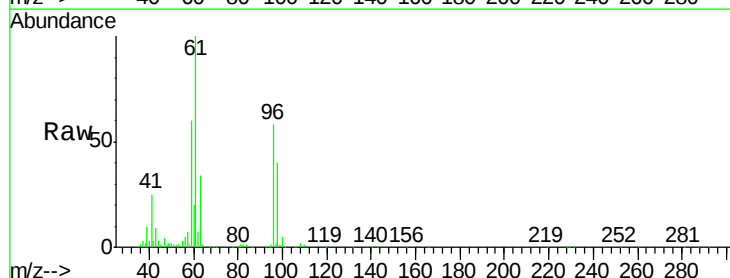
Manual Integrations
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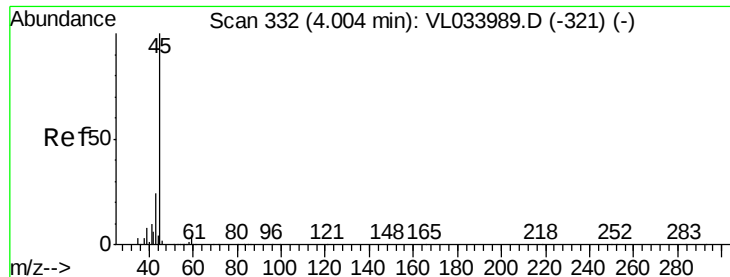
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#18
1,1-Dichloroethene
Concen: 2.361 ppbv
RT: 4.33 min Scan# 434
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.4	139.4	209.0
98	68.4	49.4	74.0





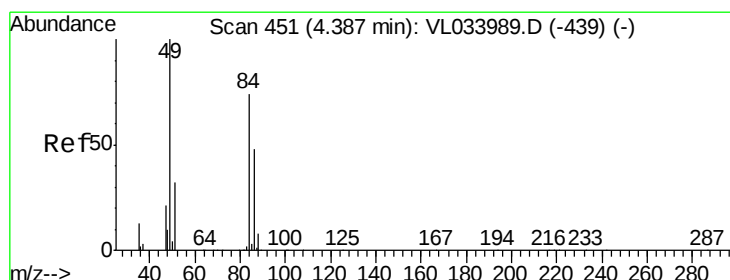
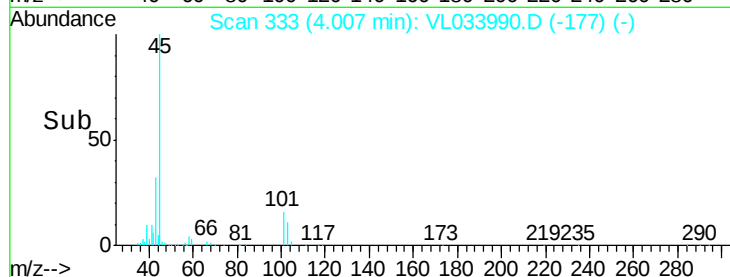
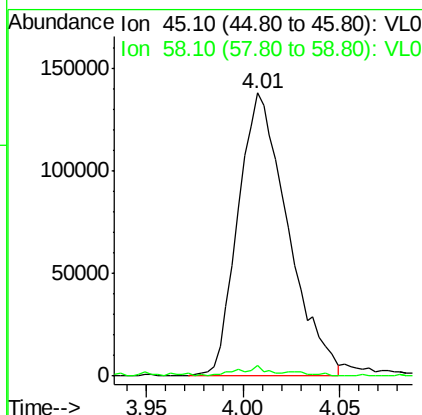
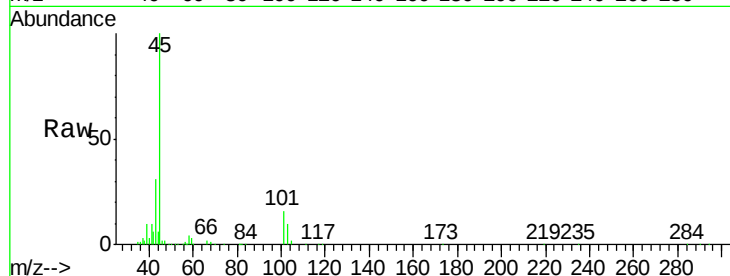
#19
Isopropyl Alcohol
Concen: 2.546 ppbv
RT: 4.01 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 247149
Ion Ratio Lower Upper
45 100
58 3.2 1.7 2.5#

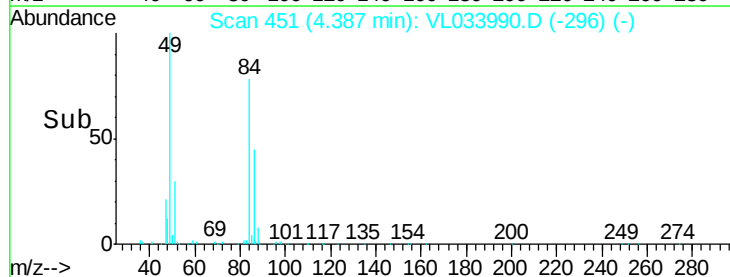
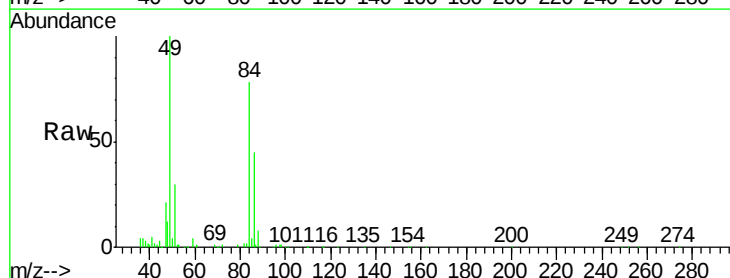
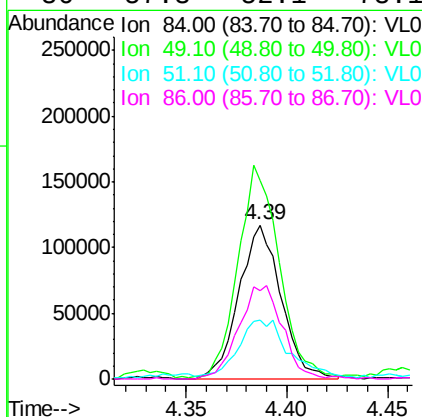
Manual Integrations
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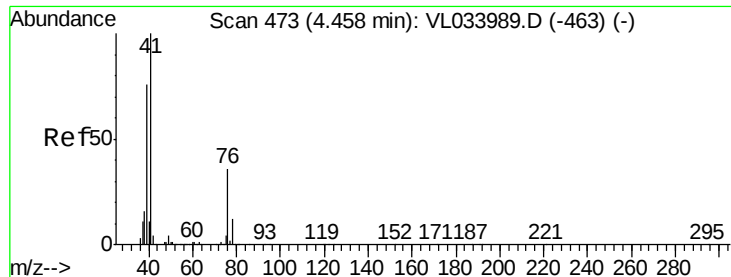
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#20
Methylene Chloride
Concen: 2.593 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 84 Resp: 171800
Ion Ratio Lower Upper
84 100
49 127.7 107.6 161.4
51 35.5 35.0 52.6
86 57.3 52.1 78.1





#21

Allvl Chloride

Concen: 2.425 ppbv

RT: 4.46 min Scan# 473

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

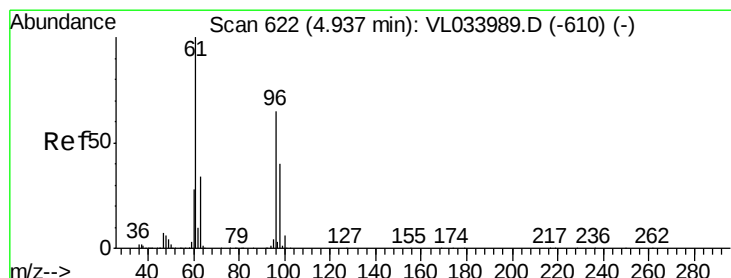
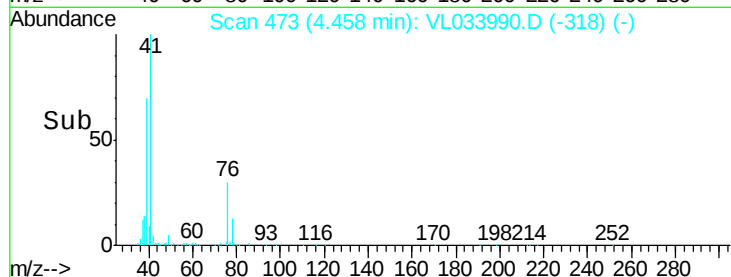
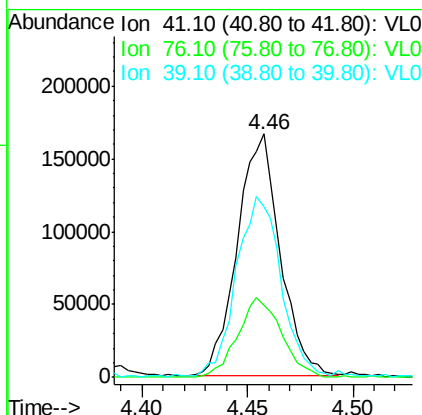
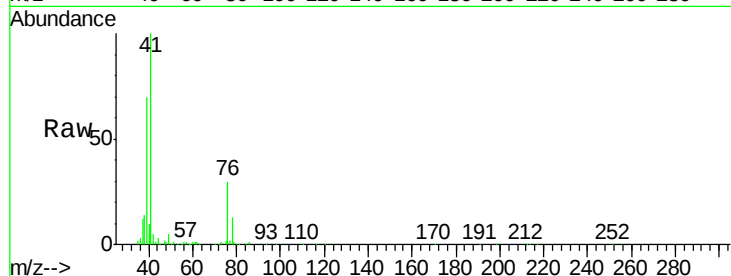
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	234057
Ion Ratio		Lower	Upper
41	100		
76	33.9	26.8	40.2
39	80.2	63.1	94.7

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#22

trans-1,2-Dichloroethene

Concen: 2.224 ppbv

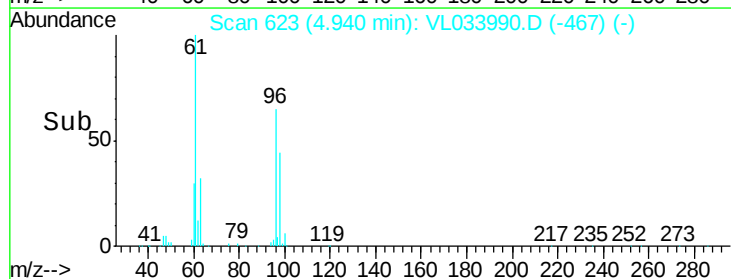
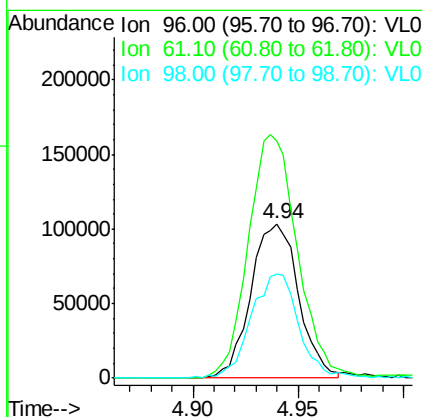
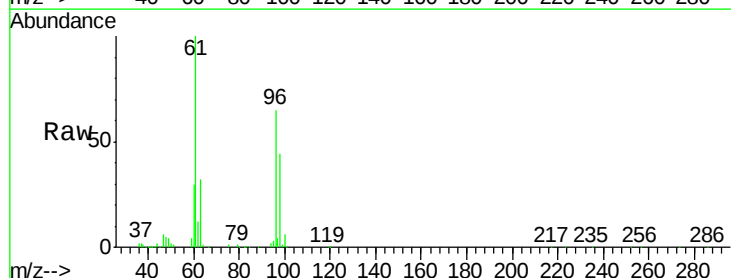
RT: 4.94 min Scan# 623

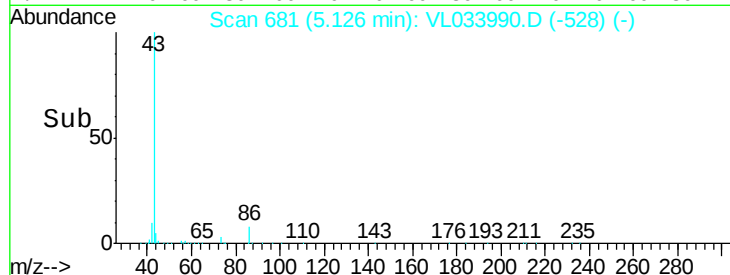
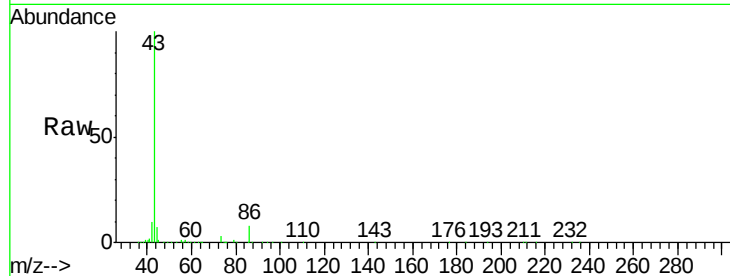
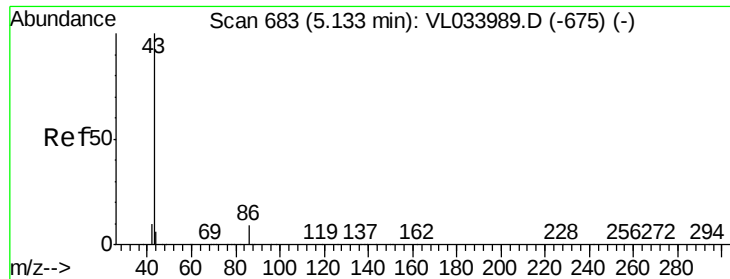
Delta R.T. 0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:	96	Resp:	163231
Ion Ratio		Lower	Upper
96	100		
61	153.5	122.9	184.3
98	67.6	49.6	74.4





#23

Vinyl Acetate

Concen: 2.174 ppbv

RT: 5.13 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	43	100	429351		
86	86	7.6		6.6	9.8
42	42	9.8		8.3	12.5
44	44	5.8		4.3	6.5

Instrument :

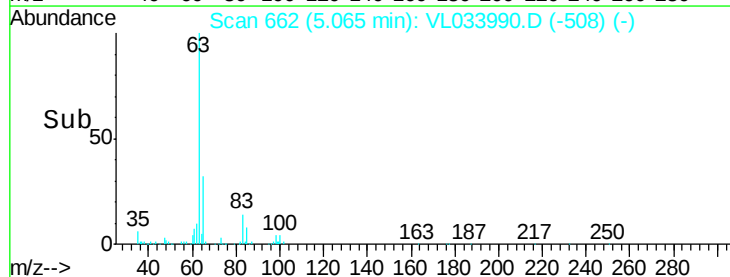
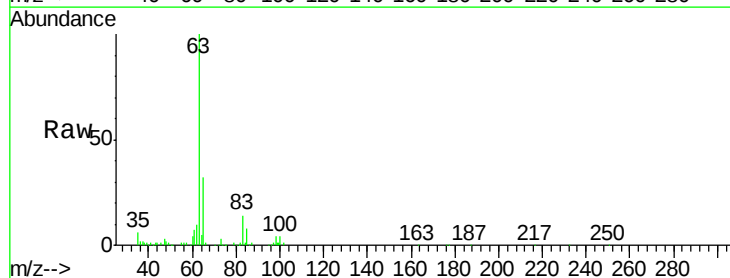
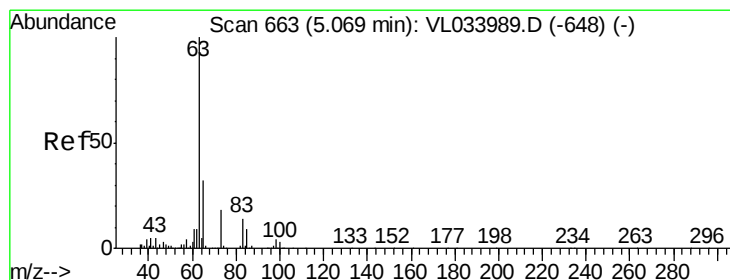
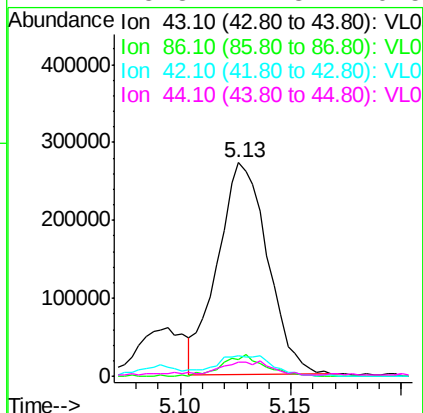
MSVOA_L

ClientSampleId :

VSTDIC002

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#24

1,1-Dichloroethane

Concen: 2.371 ppbv

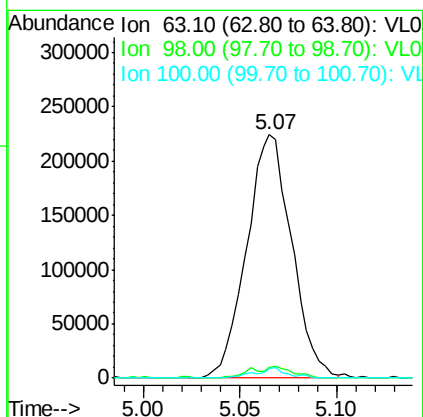
RT: 5.07 min Scan# 662

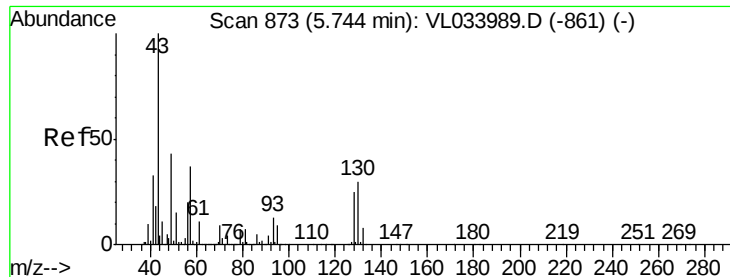
Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	63	100	364234		
98	98	4.8		2.2	6.6
100	100	4.0		1.4	4.2





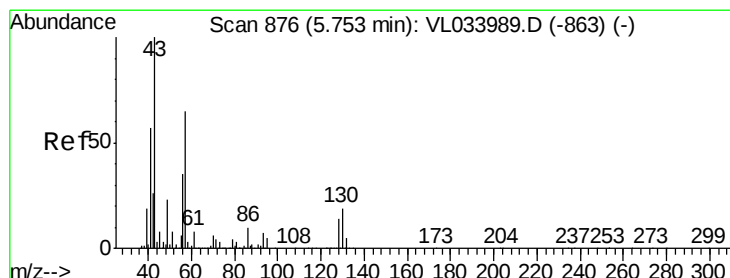
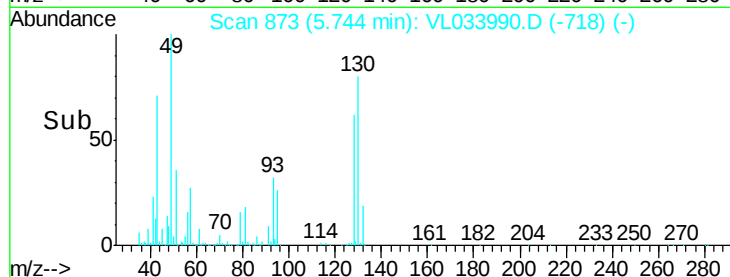
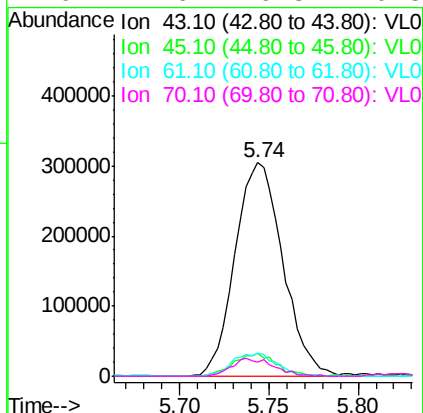
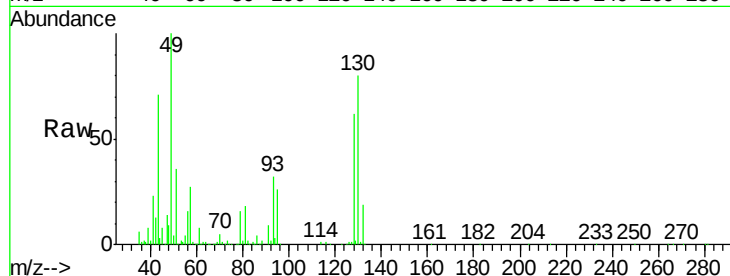
#25
Ethyl Acetate
Concen: 2.196 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.1	12.1
61	10.3	8.1	12.1
70	7.6	6.3	9.5

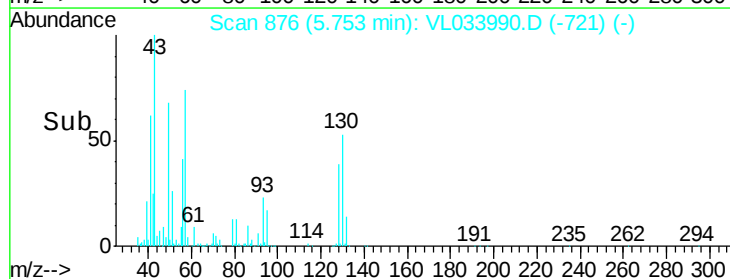
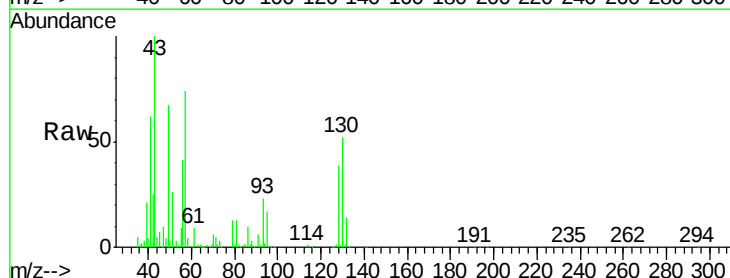
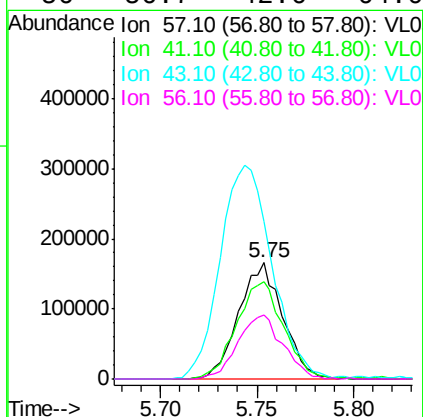
Manual Integrations
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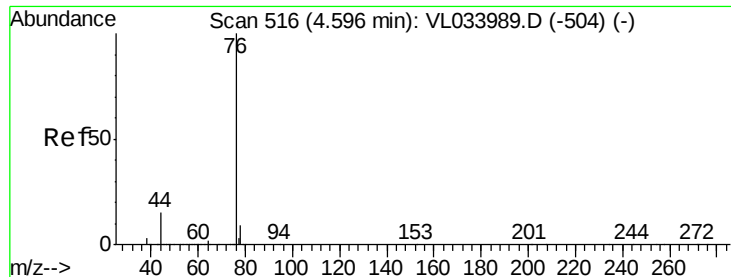
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#26
Hexane
Concen: 2.228 ppbv
RT: 5.75 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.6	105.8
43	218.4	177.6	266.4
56	56.7	42.6	64.0





#27

Carbon Disulfide

Concen: 2.366 ppbv

RT: 4.60 min Scan# 518

Delta R.T. 0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

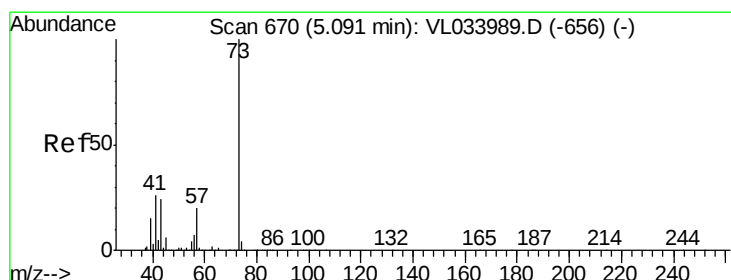
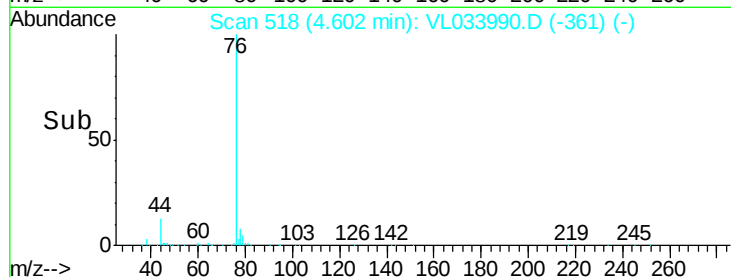
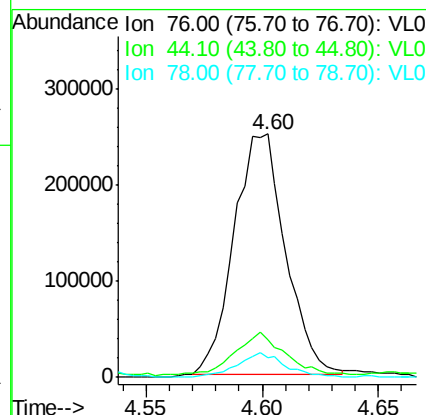
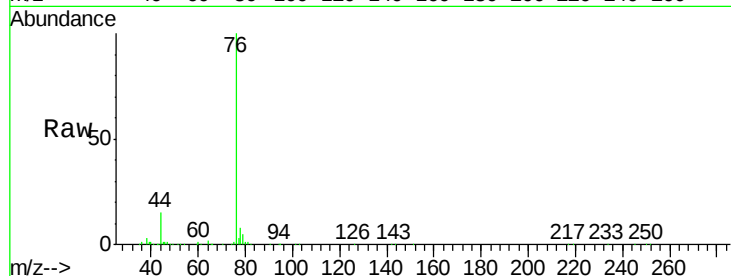
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	387283
Ion Ratio	Lower	Upper	
76	100		
44	18.0	12.6	18.8
78	9.5	7.2	10.8

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MMDadoda
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#28

Methyl tert-Butyl Ether

Concen: 2.503 ppbv

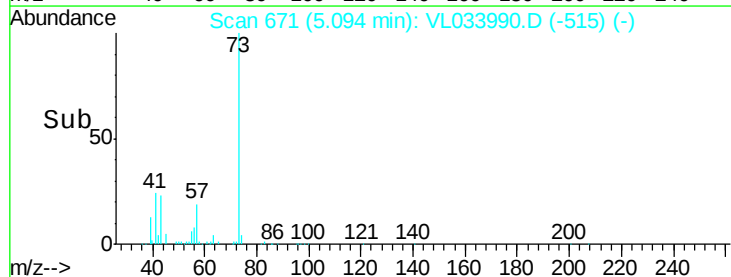
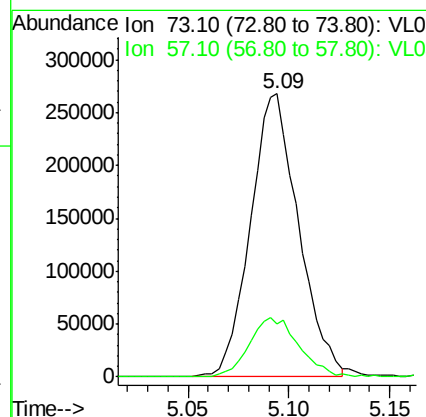
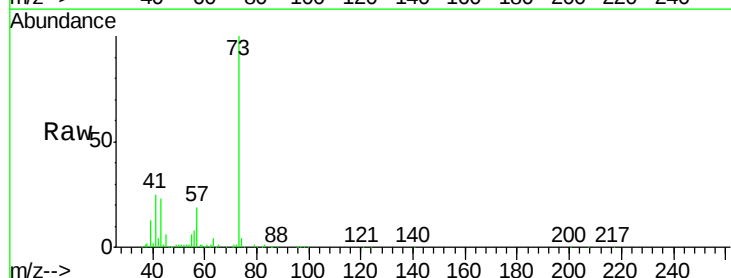
RT: 5.09 min Scan# 671

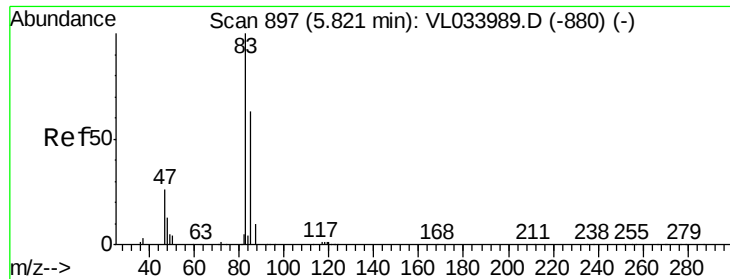
Delta R.T. 0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:	73	Resp:	445856
Ion Ratio	Lower	Upper	
73	100		
57	21.9	16.9	25.3





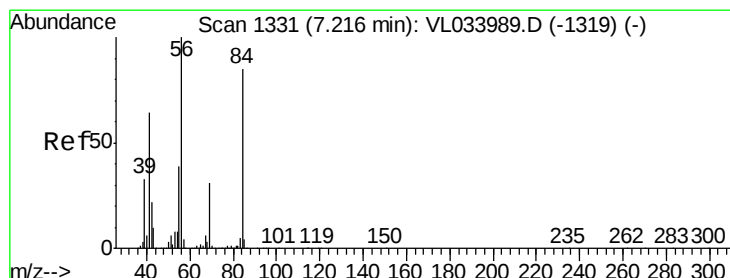
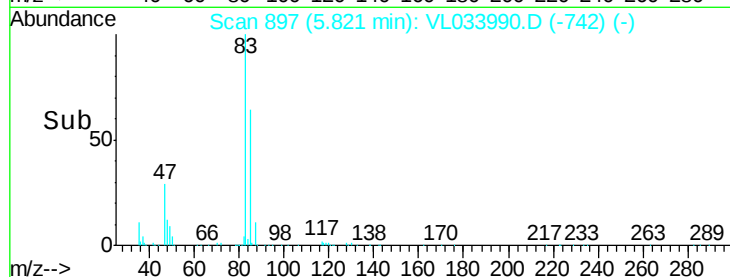
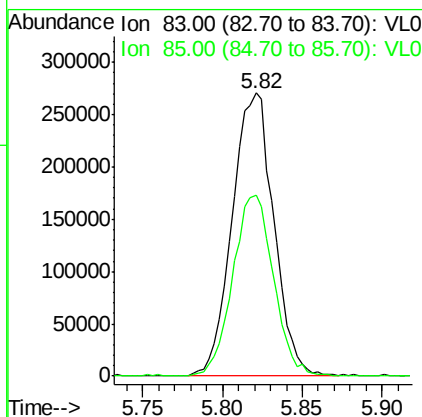
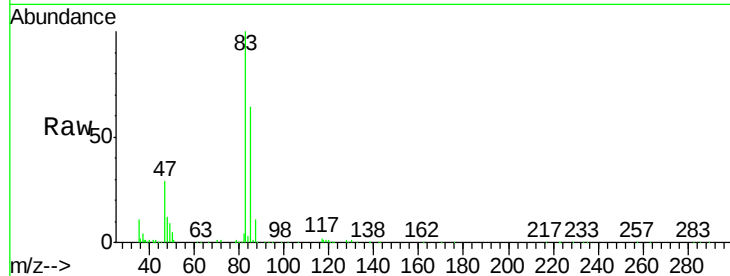
#29
Chloroform
Concen: 2.370 ppbv
RT: 5.82 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.6	75.8

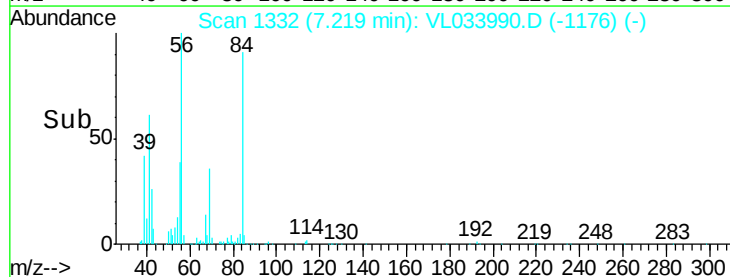
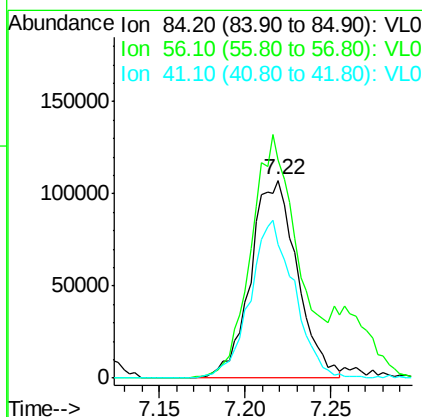
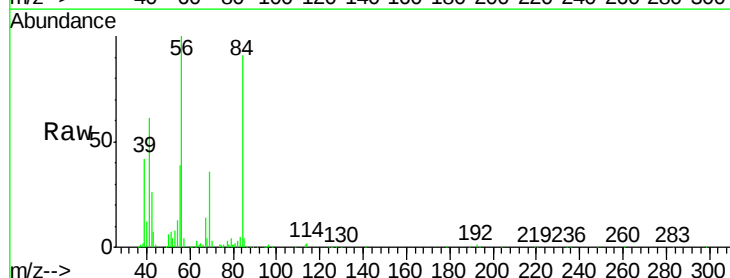
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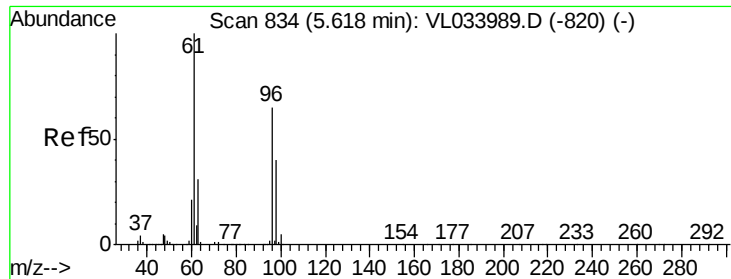
MMDadoda
7/3/2019 11:03:28 PM



#30
Cyclohexane
Concen: 2.427 ppbv m
RT: 7.22 min Scan# 1332
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	103.7	155.5#
41	0.0	62.6	94.0#





#31

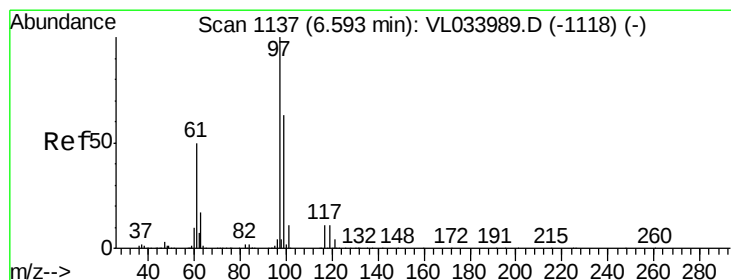
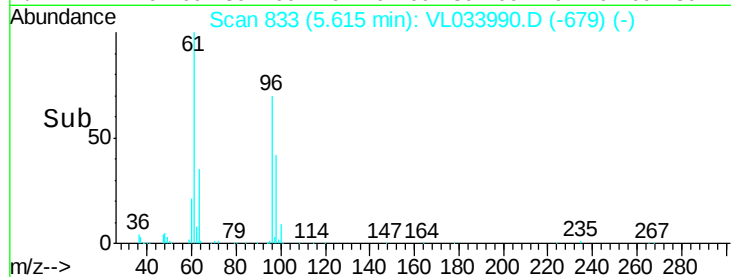
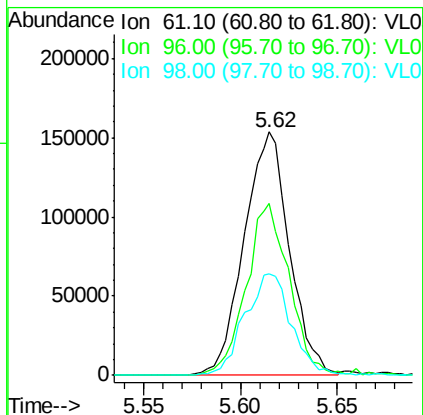
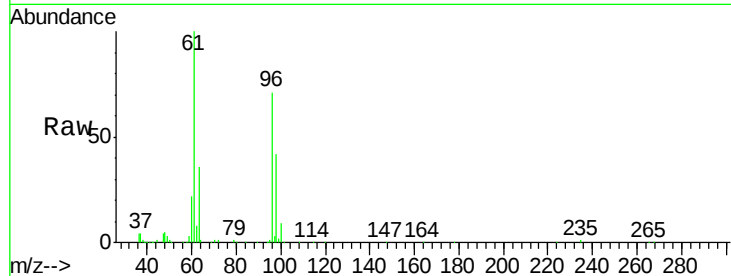
cis-1,2-Dichloroethene
Concen: 2.421 ppbv
RT: 5.62 min Scan# 833
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	61	Resp:	250154
Ion	Ratio	Lower	Upper
61	100		
96	70.6	51.8	77.6
98	41.4	32.1	48.1

Manual Integrations
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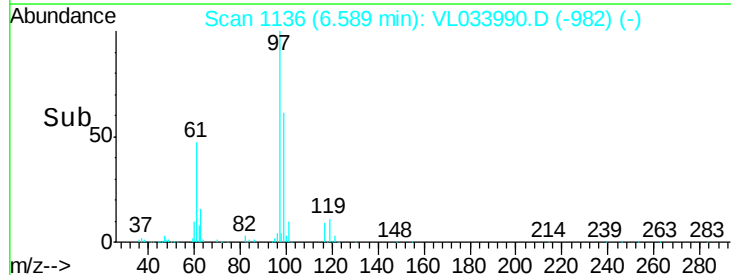
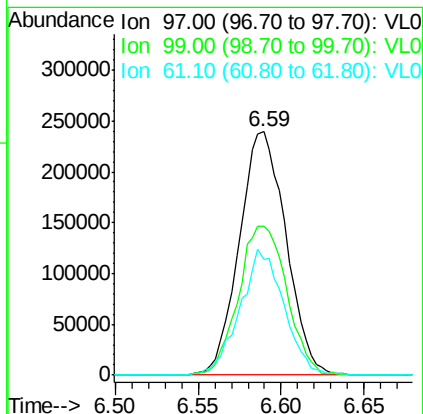
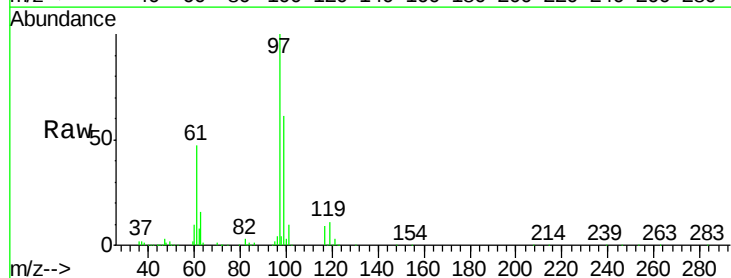
MMDadoda
7/3/2019 11:03:28 PM

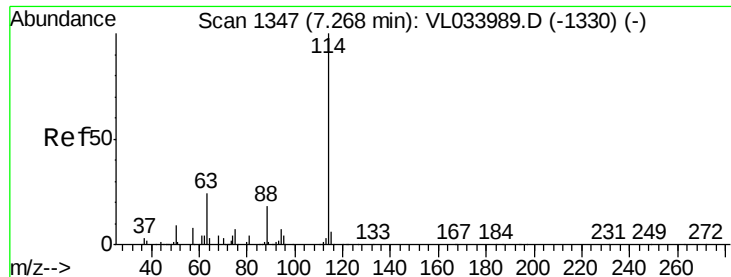


#32

1,1,1-Trichloroethane
Concen: 2.393 ppbv
RT: 6.59 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	97	Resp:	465885
Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.9	77.9
61	49.0	39.8	59.8





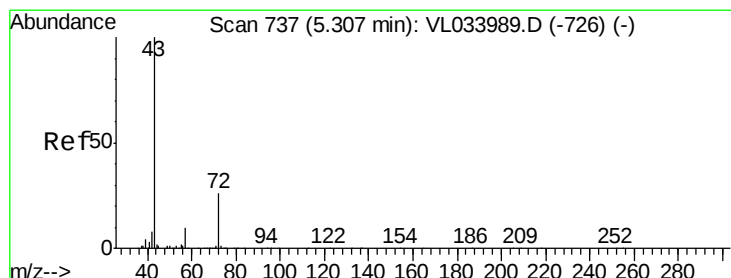
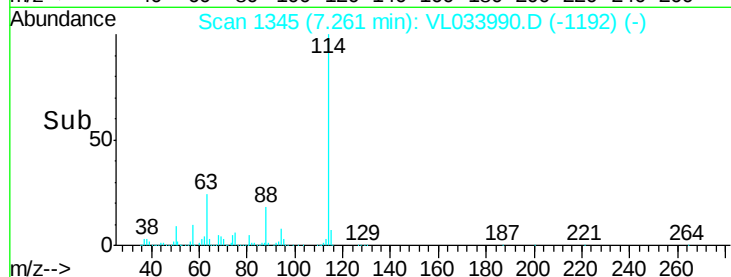
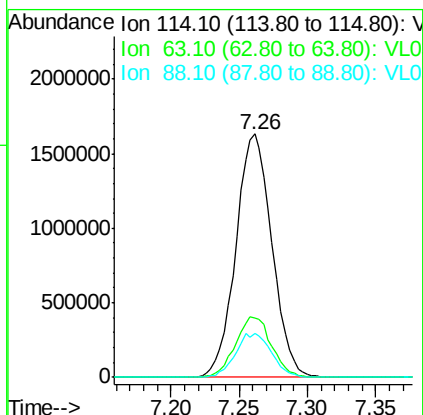
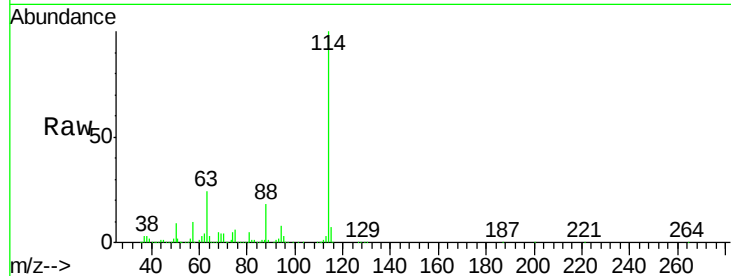
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.2	30.2
88	18.2	14.1	21.1

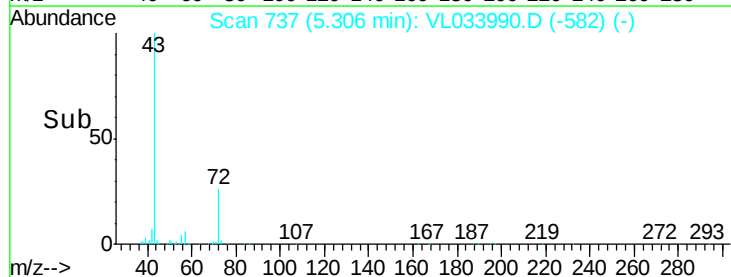
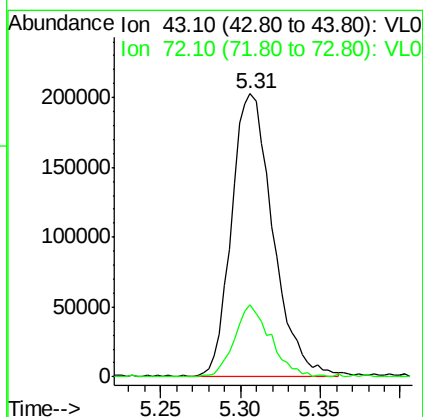
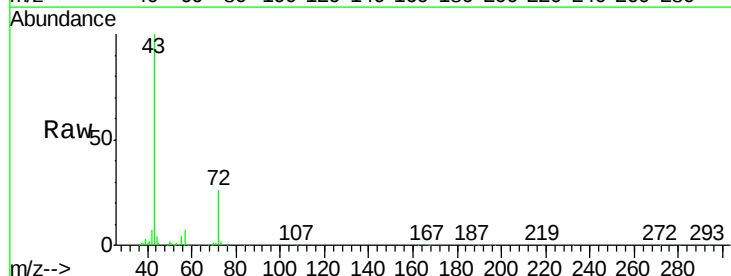
Manual Integrations
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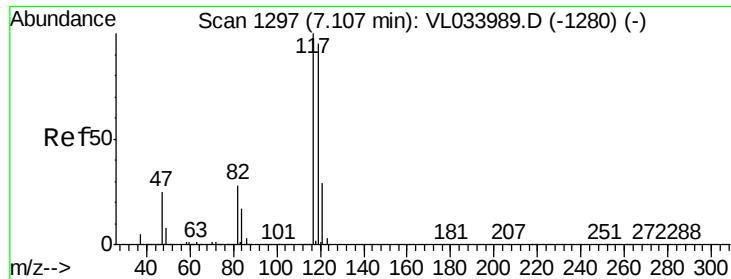
MMDadoda
 7/3/2019 11:03:28 PM



#34
 2-Butanone
 Concen: 2.099 ppbv
 RT: 5.31 min Scan# 737
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	19.9	29.9





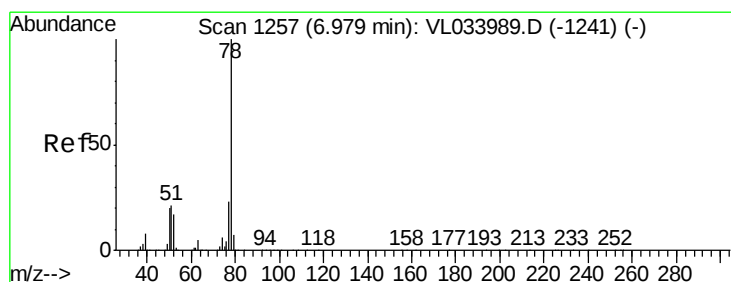
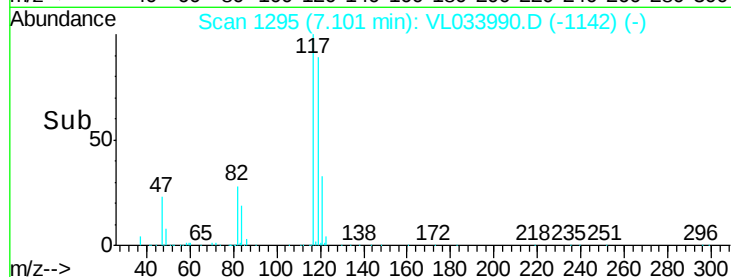
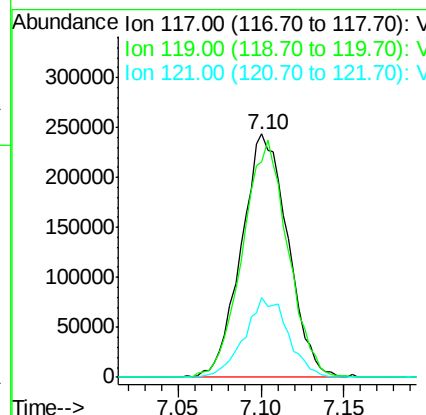
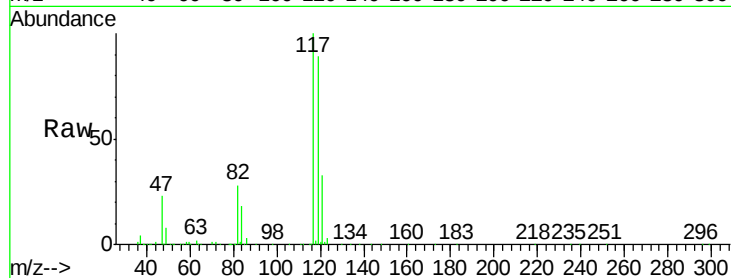
#35
Carbon Tetrachloride
Concen: 2.042 ppbv
RT: 7.10 min Scan# 1295
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
119	88.5	75.8	113.6
121	32.5	23.4	35.2

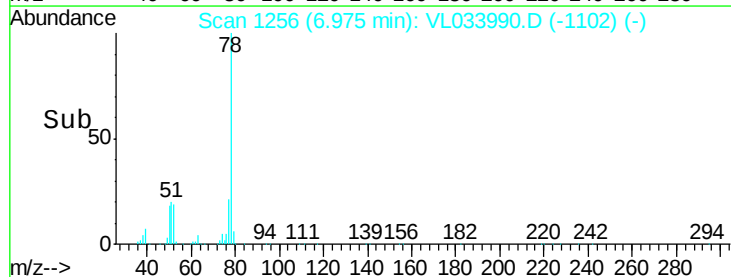
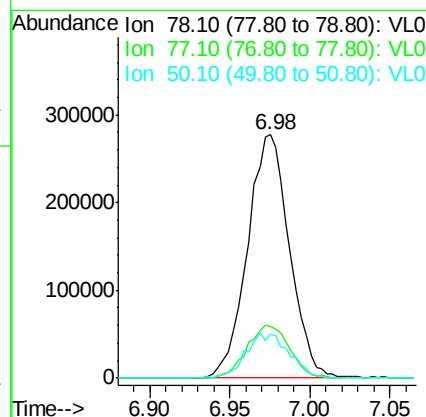
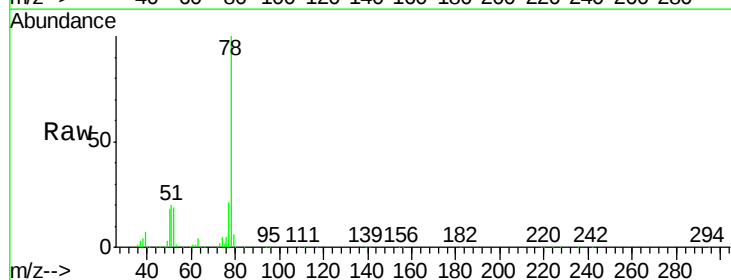
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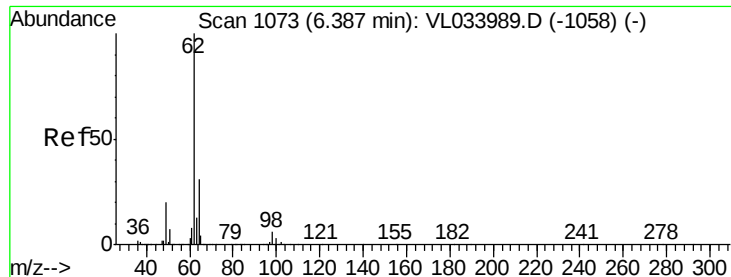
MMDadoda
7/3/2019 11:03:28 PM



#36
Benzene
Concen: 2.174 ppbv
RT: 6.98 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	18.7	28.1
50	18.2	16.2	24.2





#37

1,2-Dichloroethane

Concen: 2.137 ppbv

RT: 6.38 min Scan# 1070

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 360718

Ion Ratio Lower Upper

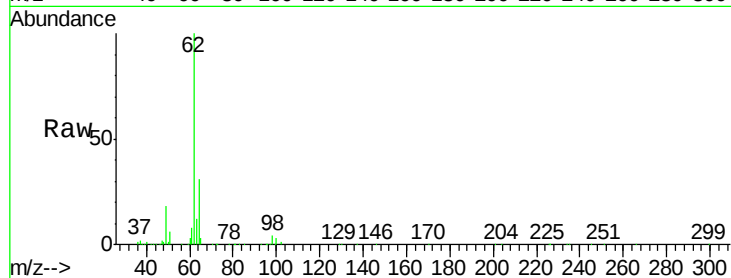
62 100

98 5.7 4.4 6.6

Manual Integrations
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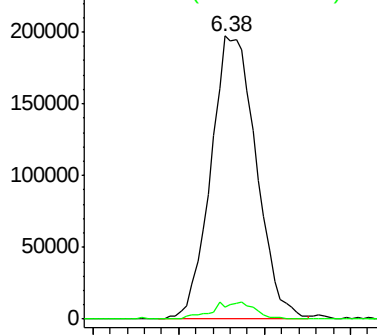
MMDadoda

7/3/2019 11:03:28 PM

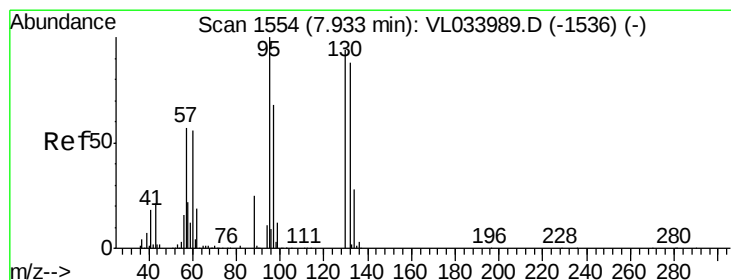
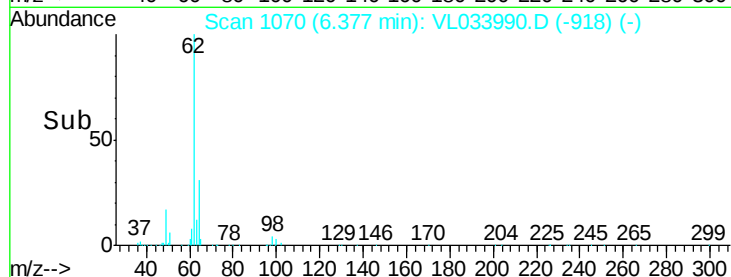


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



Time-->



#38

Trichloroethene

Concen: 2.418 ppbv

RT: 7.93 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:130 Resp: 214852

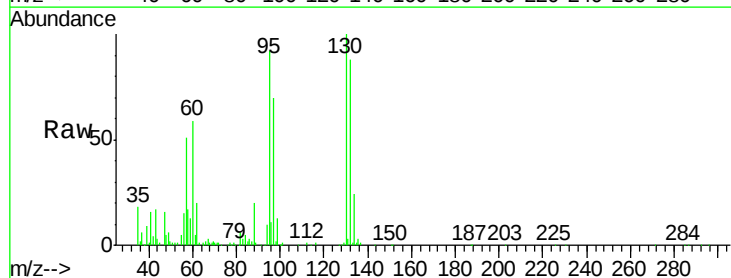
Ion Ratio Lower Upper

130 100

95 91.7 85.5 128.3

132 87.7 75.1 112.7

97 69.9 58.1 87.1

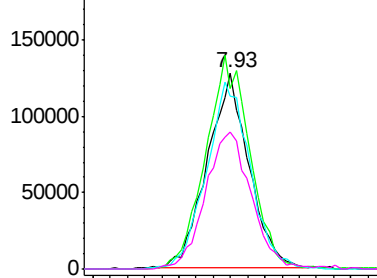


Abundance Ion 130.00 (129.70 to 130.70): V

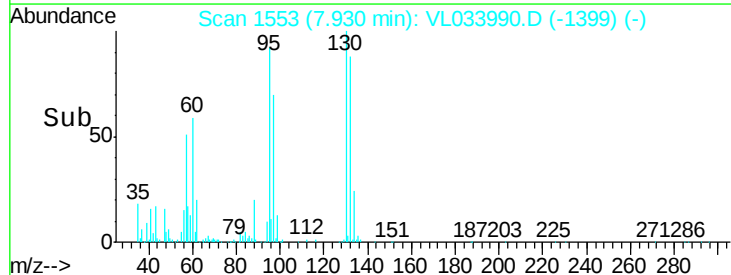
Ion 95.00 (94.70 to 95.70): VL0

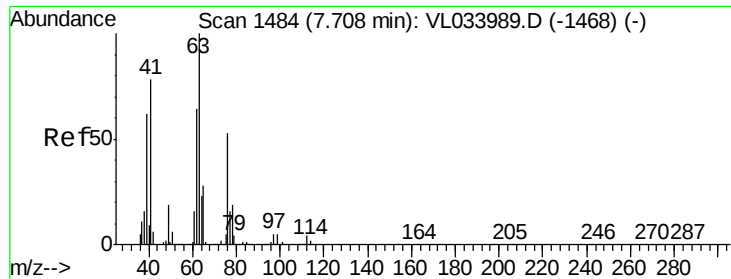
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



Time-->





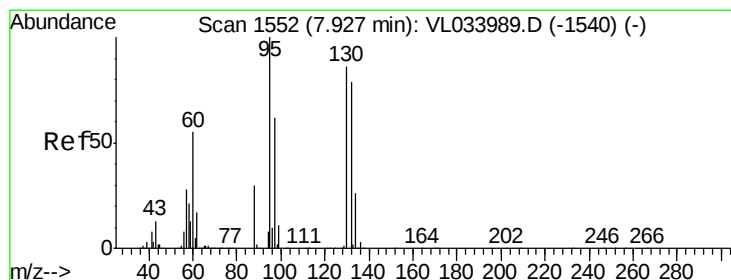
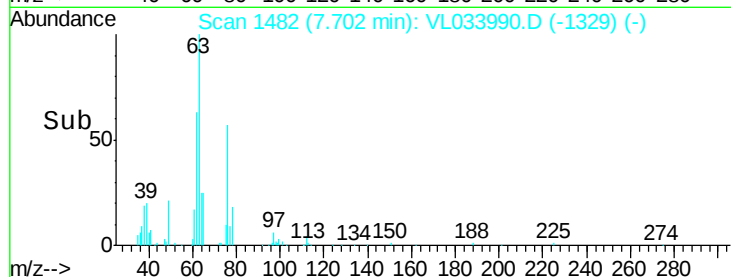
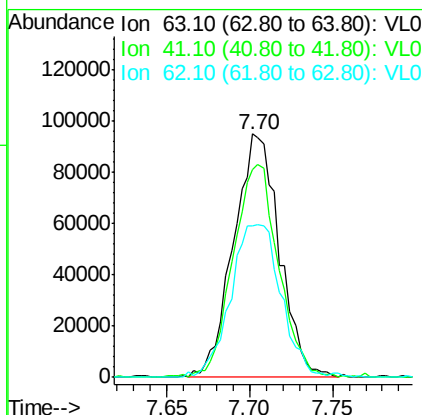
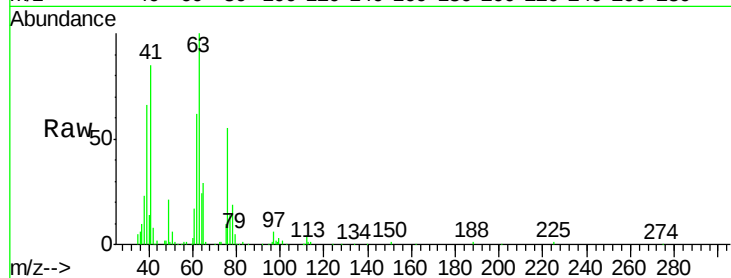
#39
 1,2-Dichloropropane
 Concen: 2.066 ppbv
 RT: 7.70 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.3	62.3	93.5
62	60.3	51.4	77.2

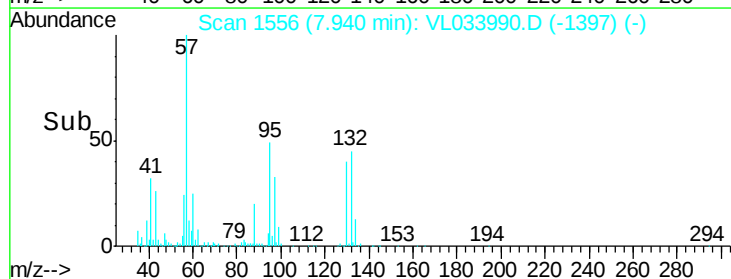
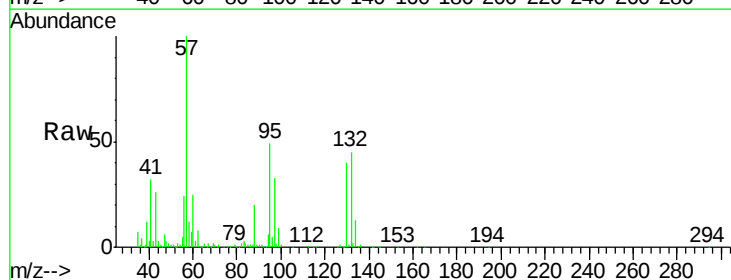
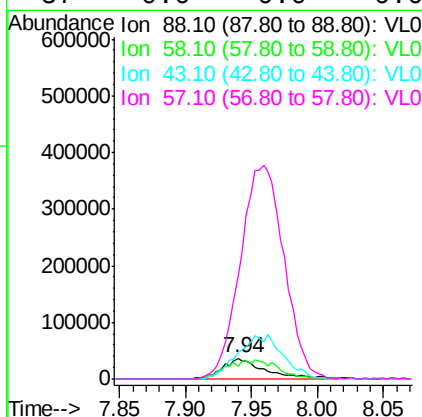
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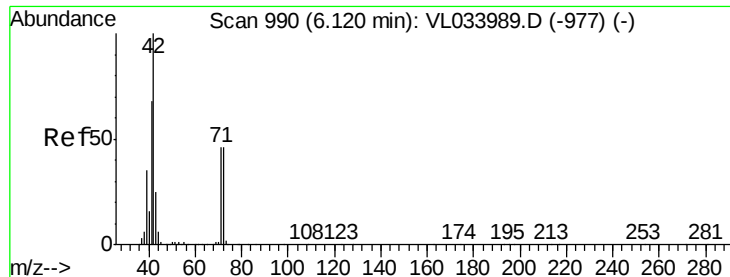
MMDadoda
 7/3/2019 11:03:28 PM



#40
 1,4-Dioxane
 Concen: 2.248 ppbv m
 RT: 7.94 min Scan# 1556
 Delta R.T. 0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	99.1	148.7#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 2.004 ppbv

RT: 6.13 min Scan# 993

Delta R.T. 0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

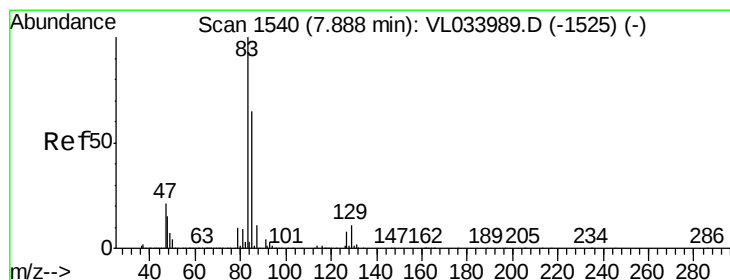
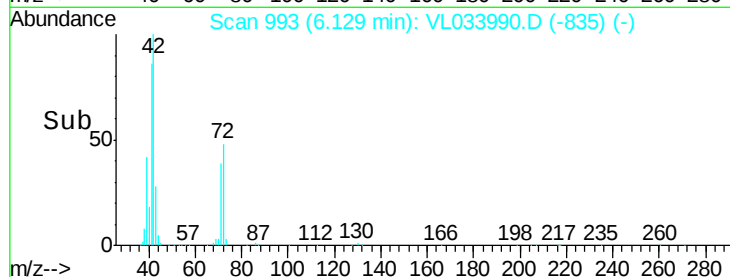
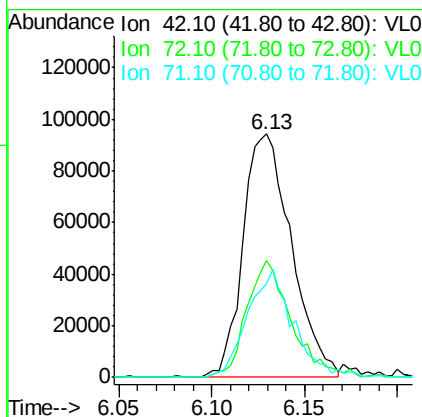
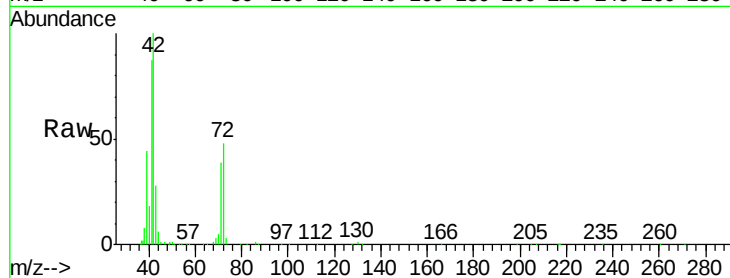
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	171422
Ion	Ratio	Lower	Upper
42	100		
72	44.5	37.3	55.9
71	42.1	36.2	54.2

Manual Integrations
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MMDadoda
7/3/2019 11:03:28 PM



#42

Bromodichloromethane

Concen: 2.153 ppbv

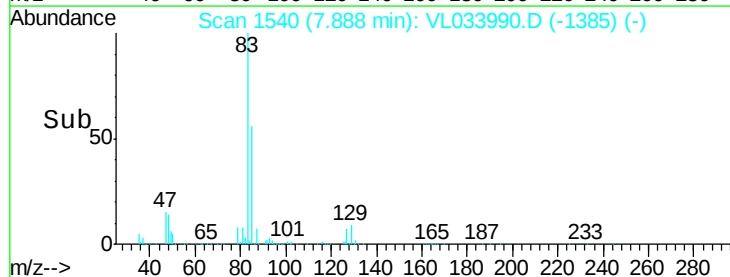
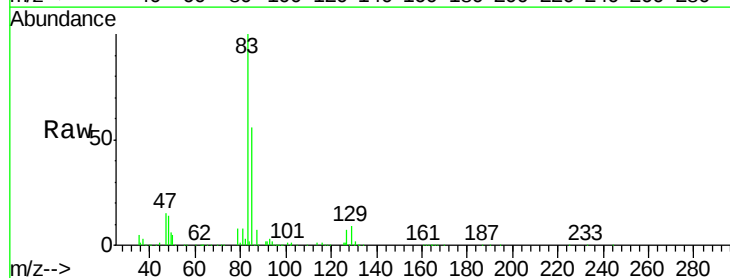
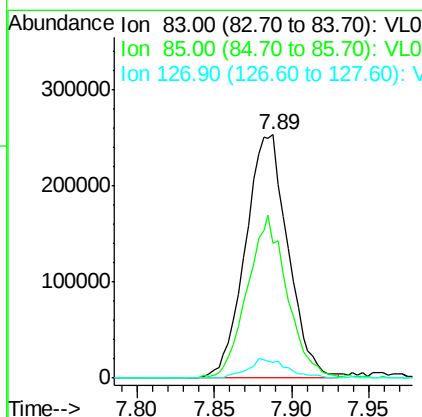
RT: 7.89 min Scan# 1540

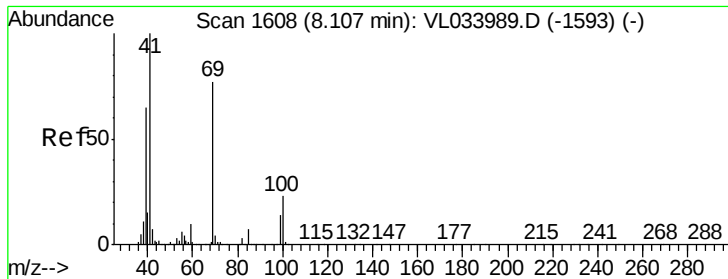
Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:	83	Resp:	485747
Ion	Ratio	Lower	Upper
83	100		
85	55.5	51.8	77.8
127	6.5	6.5	9.7





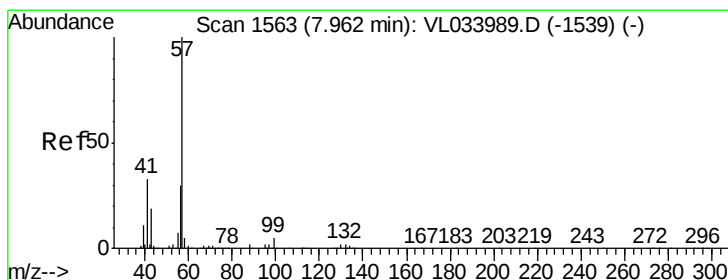
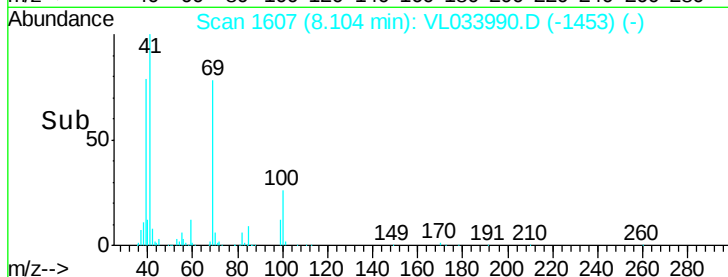
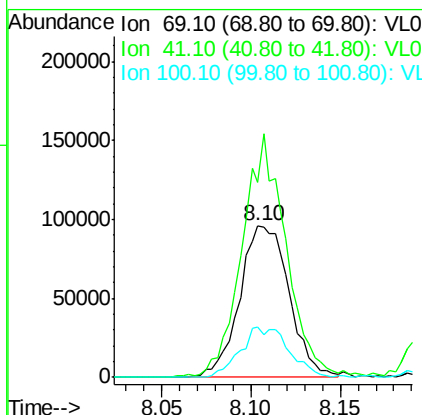
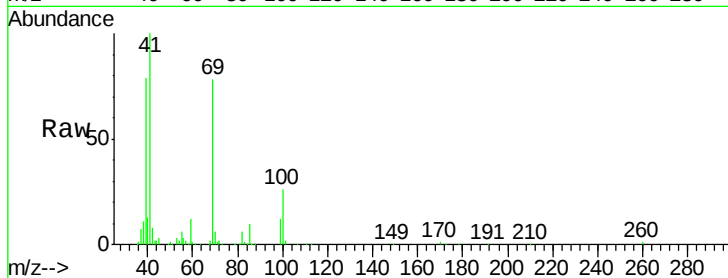
#43
Methvl Methacrylate
Concen: 2.174 ppbv
RT: 8.10 min Scan# 1607
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	143.1	109.1	163.7
100	33.2	25.3	37.9

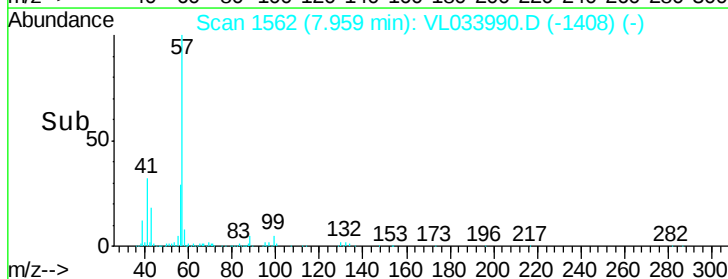
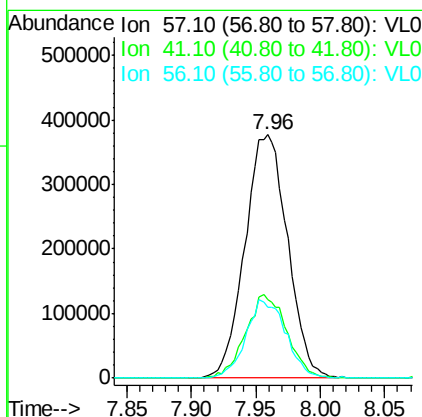
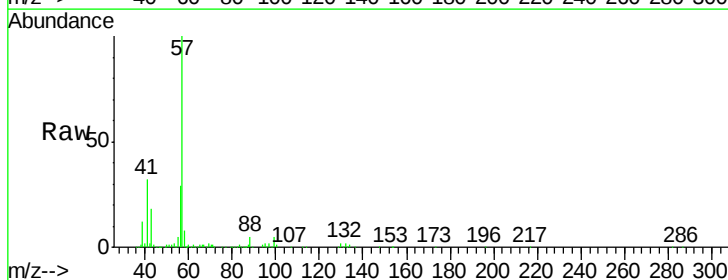
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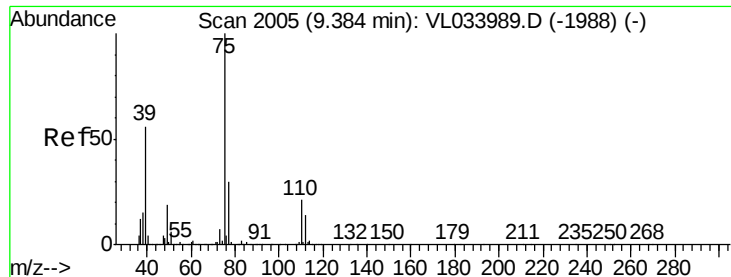
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 2.142 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.2	26.1	39.1
56	30.3	24.4	36.6





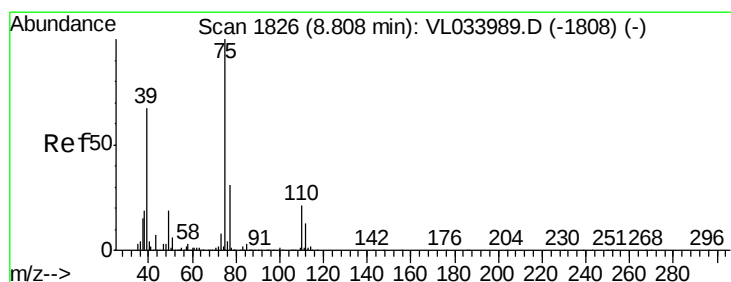
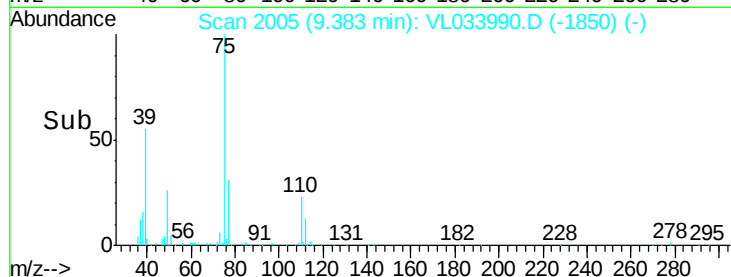
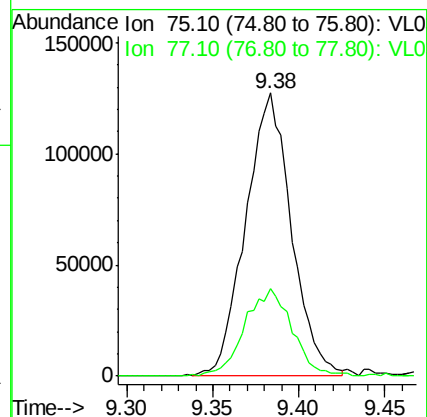
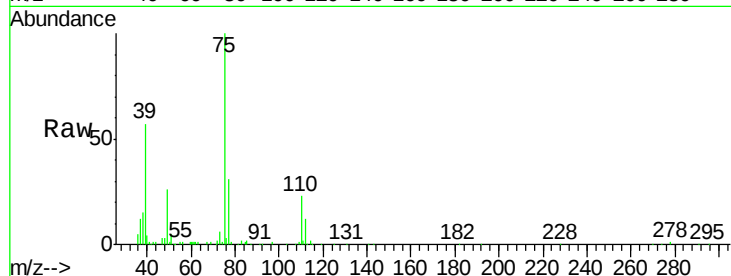
#45
t-1,3-Dichloropropene
Concen: 2.095 ppbv
RT: 9.38 min Scan# 2005
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.3	36.5

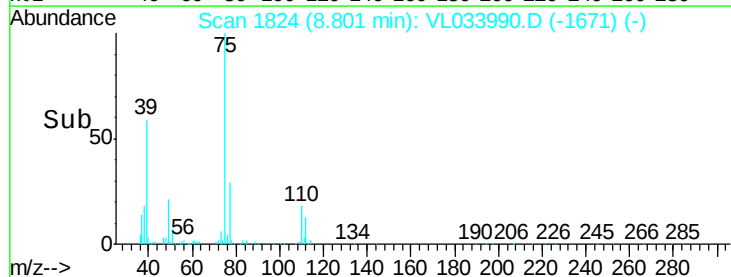
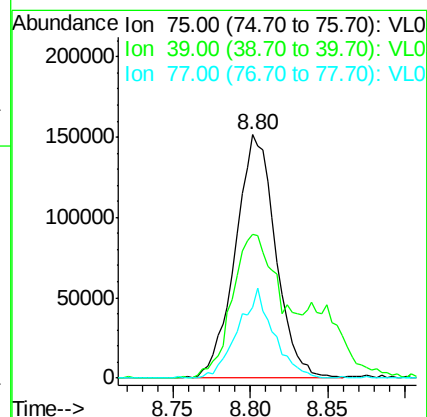
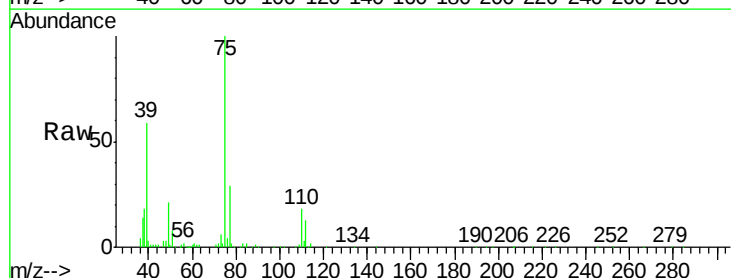
Manual Integrations
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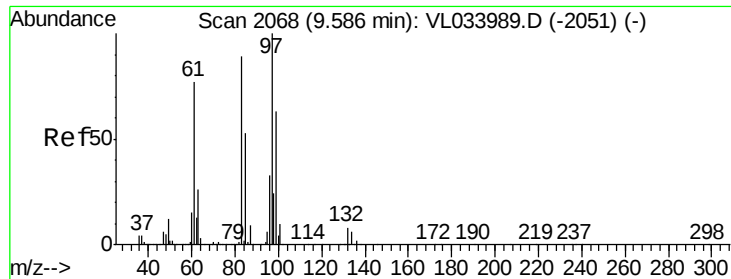
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 2.126 ppbv
RT: 8.80 min Scan# 1824
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
75	100		
39	58.8	53.8	80.6
77	28.7	24.5	36.7





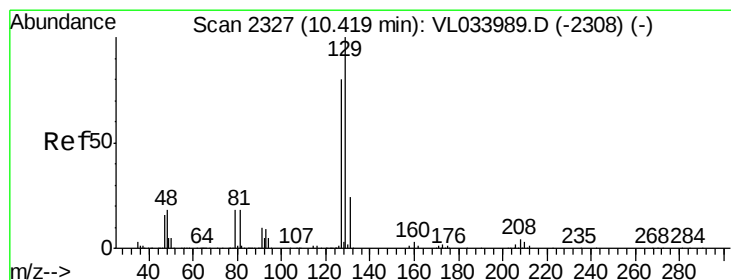
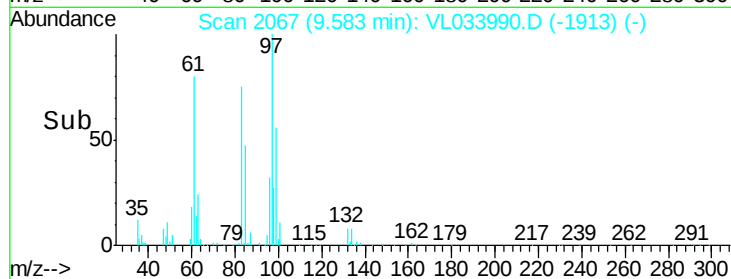
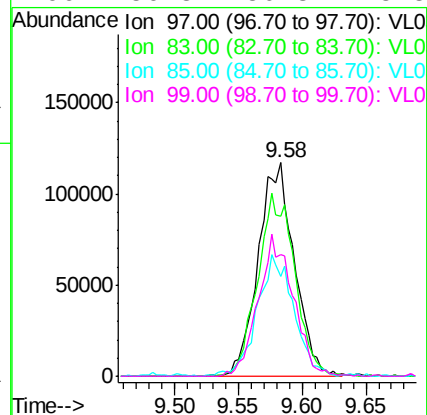
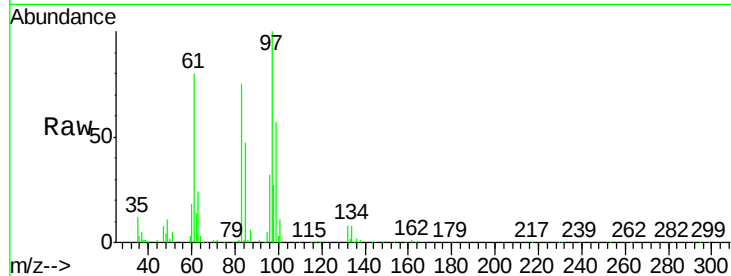
#47
 1,1,2-Trichloroethane
 Concen: 2.184 ppbv m
 RT: 9.58 min Scan# 2067
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		229377		
83	74.8	71.1	106.7		
85	46.7	42.6	64.0		
99	56.8	50.3	75.5		

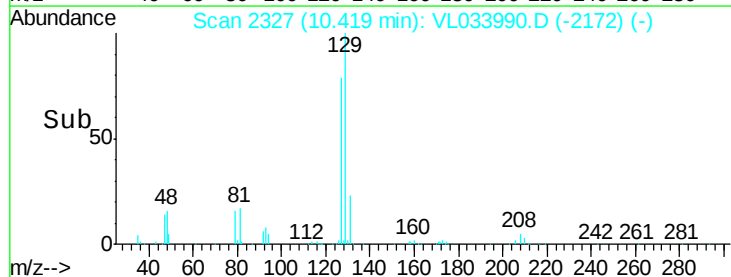
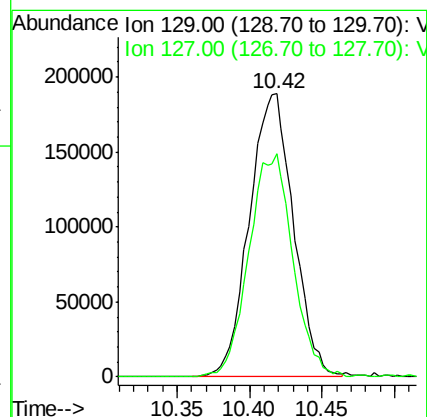
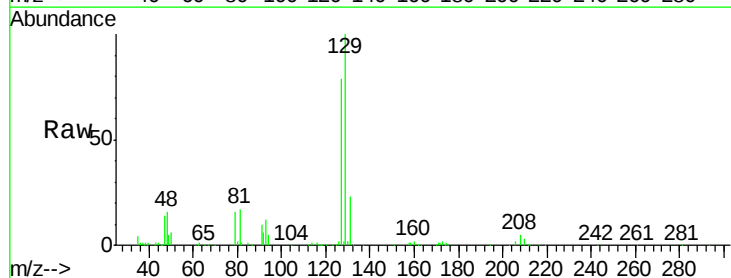
Manual Integrations
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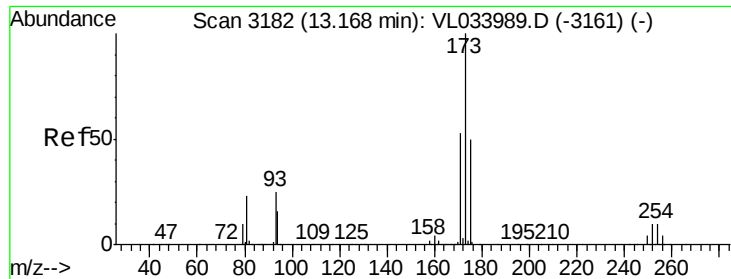
MMDadoda
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#48
 Dibromochloromethane
 Concen: 2.117 ppbv
 RT: 10.42 min Scan# 2327
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		399609		
127	78.7	39.1	117.3		





#49

Bromoform

Concen: 2.305 ppbv m

RT: 13.16 min Scan# 3179

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:173 Resp: 384034

Ion Ratio Lower Upper

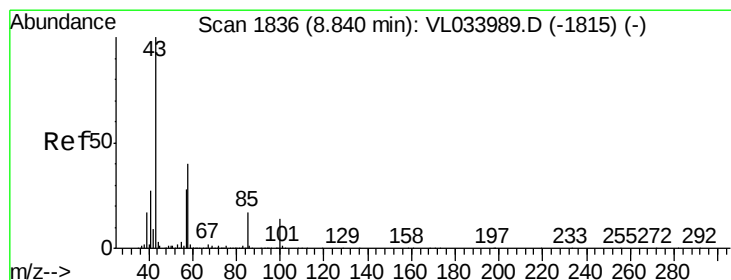
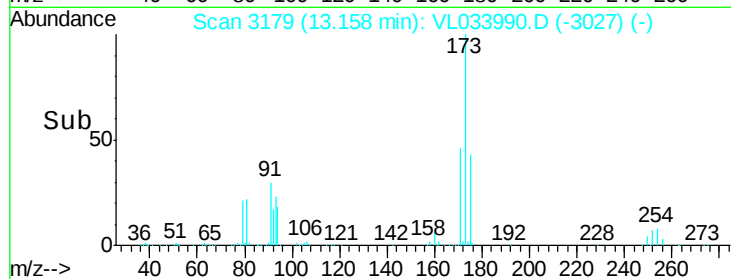
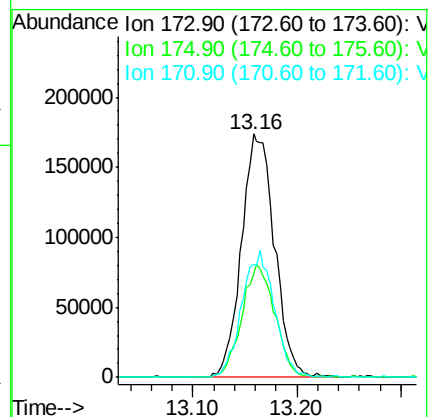
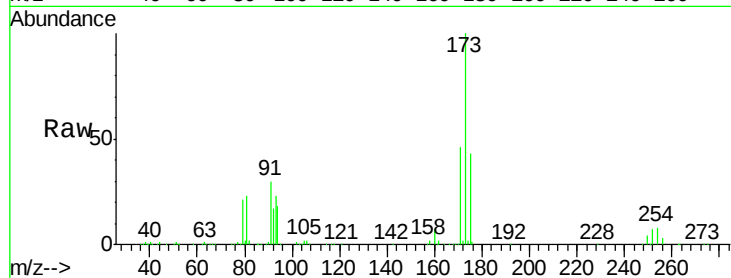
173 100

175 46.2 39.3 58.9

171 51.4 41.4 62.0

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 2.025 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. 0.01 min

Lab File: VL033990.D

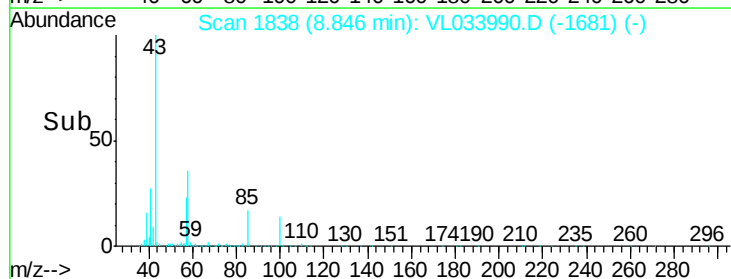
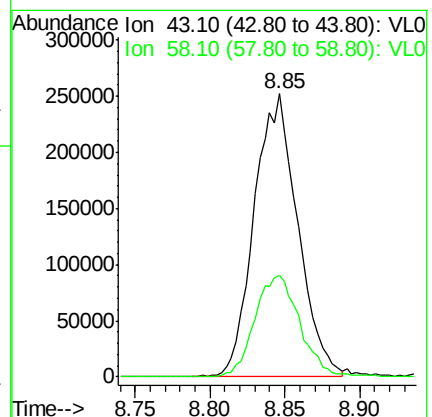
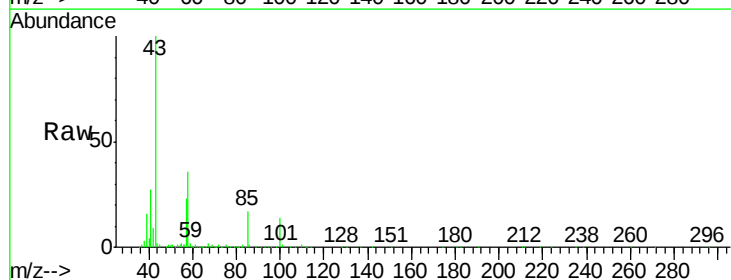
Acq: 2 Jul 2019 14:21

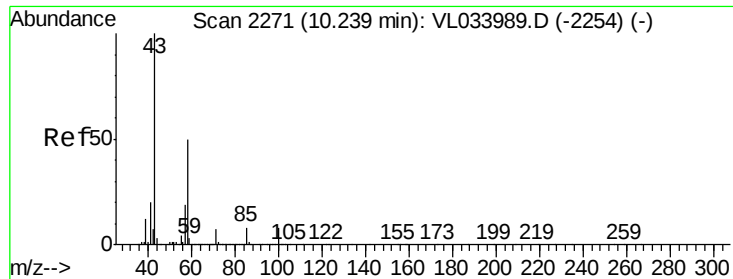
Tgt Ion: 43 Resp: 508986

Ion Ratio Lower Upper

43 100

58 37.4 30.3 45.5





#51

2-Hexanone

Concen: 1.987 ppbv

RT: 10.25 min Scan# 2273

Delta R.T. 0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

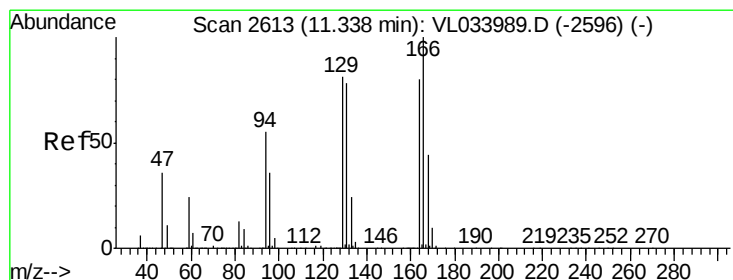
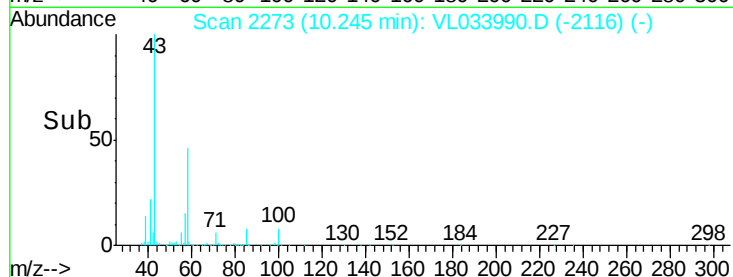
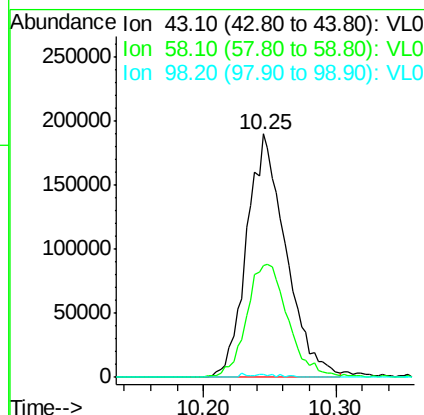
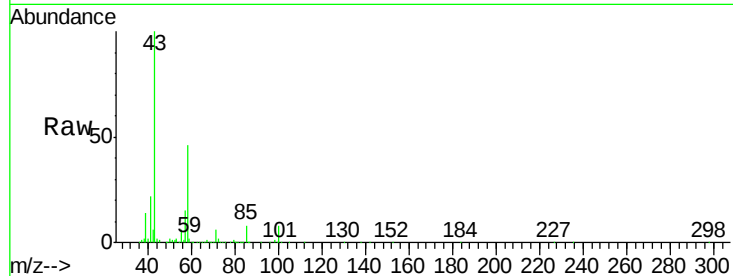
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	390006
Ion Ratio	Lower	Upper	
43	100		
58	49.2	41.0	61.4
98	1.4	0.2	0.2#

Manual Integrations
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#52

Tetrachloroethene

Concen: 2.546 ppbv

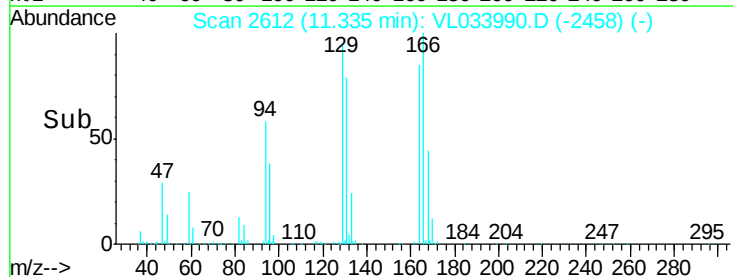
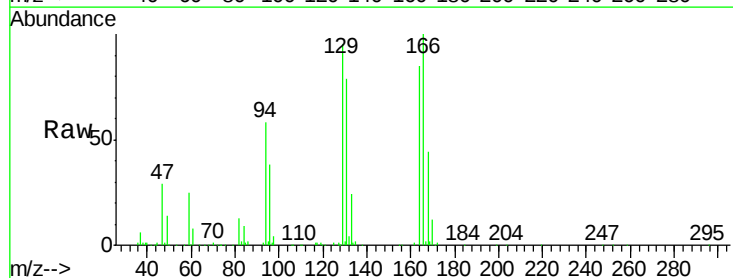
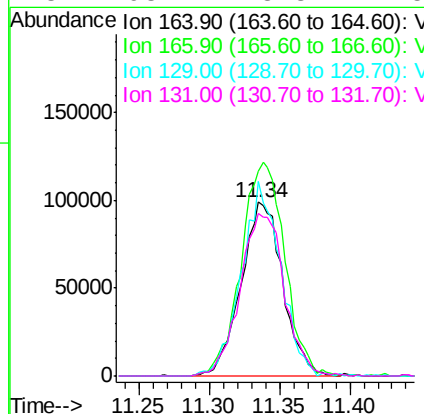
RT: 11.34 min Scan# 2612

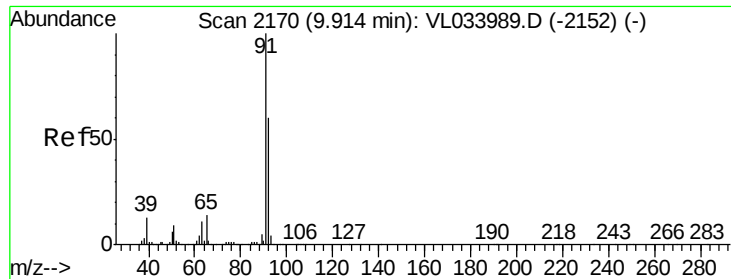
Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:	164	Resp:	204475
Ion Ratio	Lower	Upper	
164	100		
166	117.9	100.2	150.2
129	112.3	81.0	121.6
131	93.2	78.3	117.5





#53

Toluene

Concen: 2.297 ppbv

RT: 9.91 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 580186

Ion Ratio Lower Upper

91 100

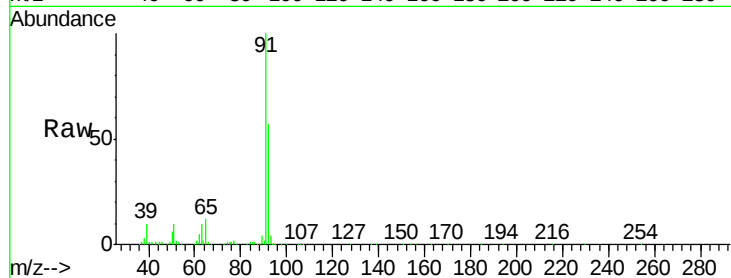
92 58.4 47.7 71.5

Manual Integrations

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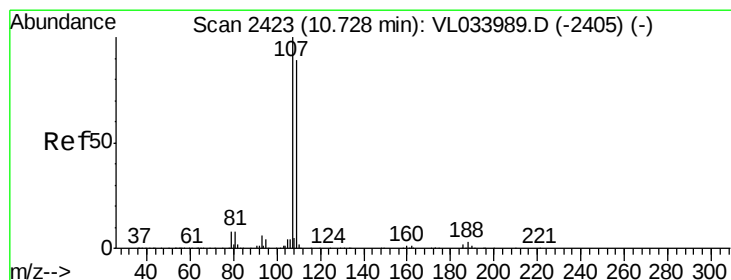
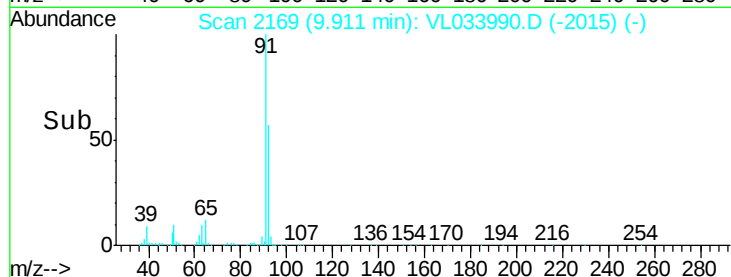
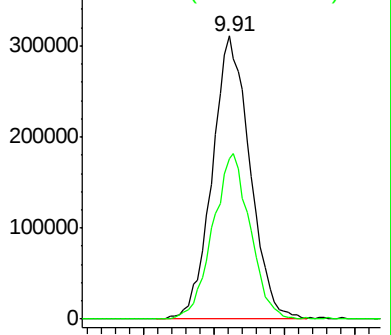
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 2.129 ppbv m

RT: 10.72 min Scan# 2421

Delta R.T. -0.01 min

Lab File: VL033990.D

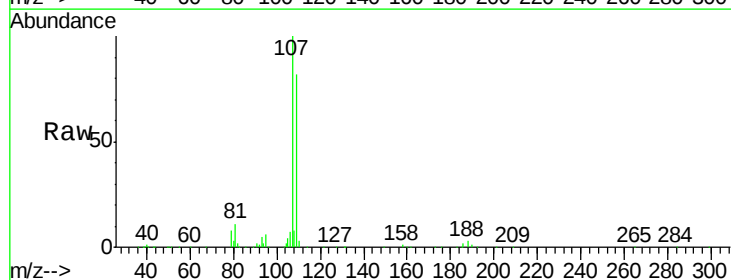
Acq: 2 Jul 2019 14:21

Tgt Ion: 107 Resp: 337007

Ion Ratio Lower Upper

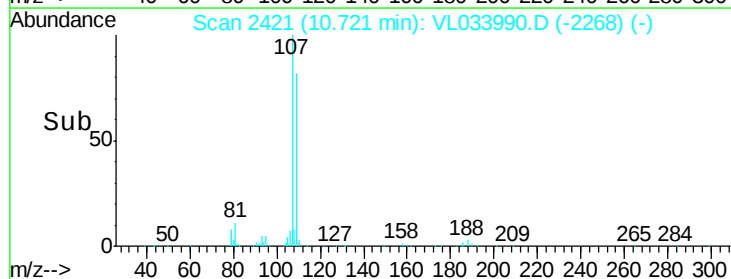
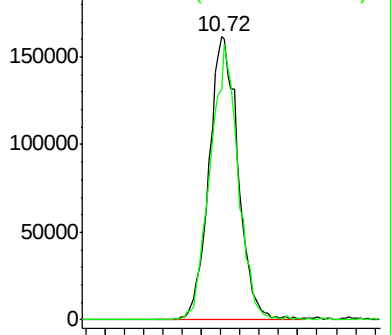
107 100

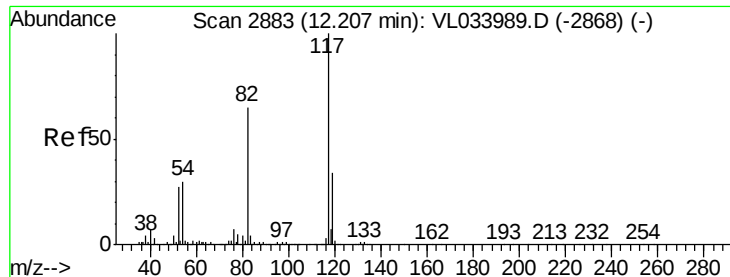
109 81.6 71.5 107.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





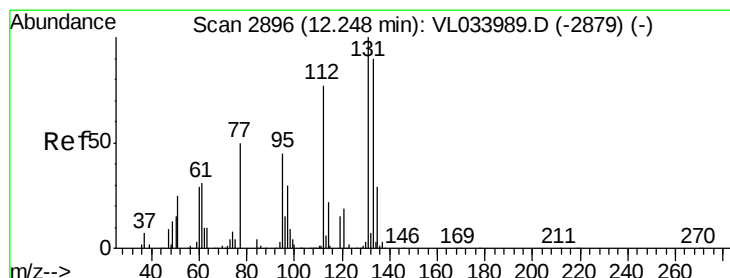
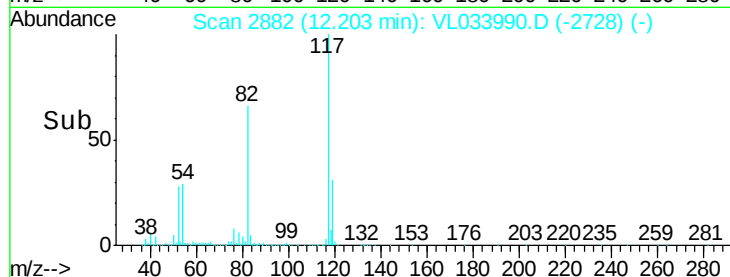
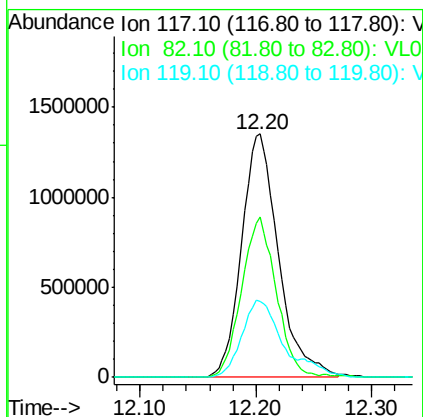
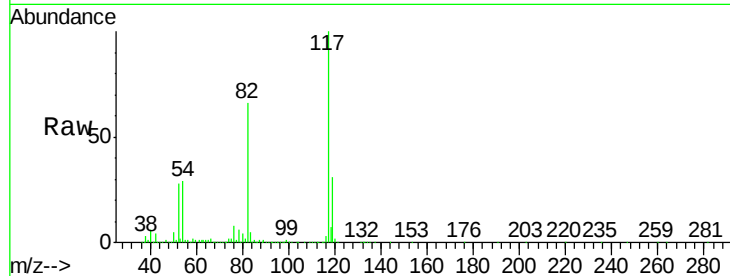
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2882
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.3	50.8	76.2
119	36.1	24.0	36.0#

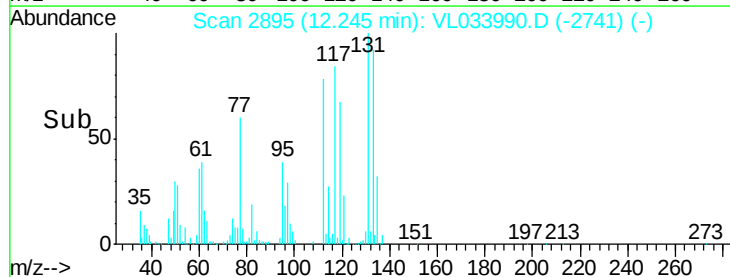
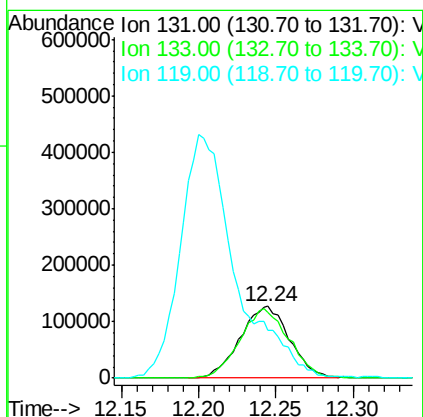
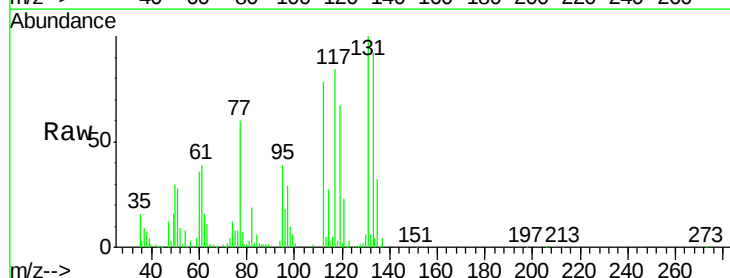
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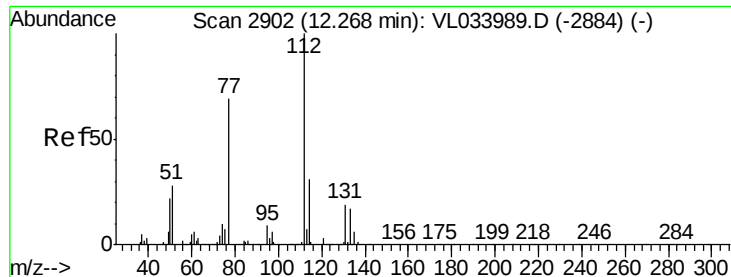
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.168 ppbv
RT: 12.24 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.8	76.2	114.2
119	379.7	43.1	64.7#





#57

Chlorobenzene

Concen: 2.218 ppbv

RT: 12.26 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

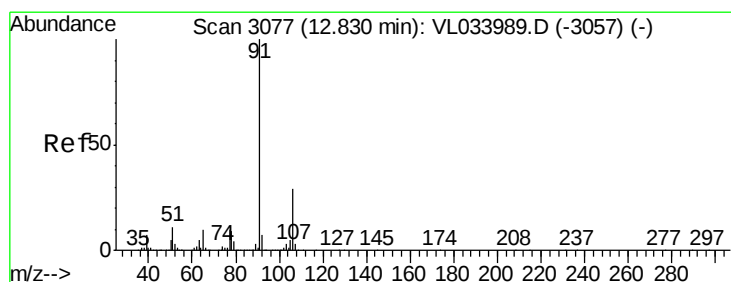
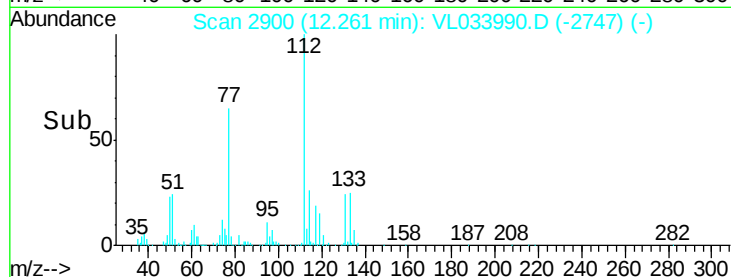
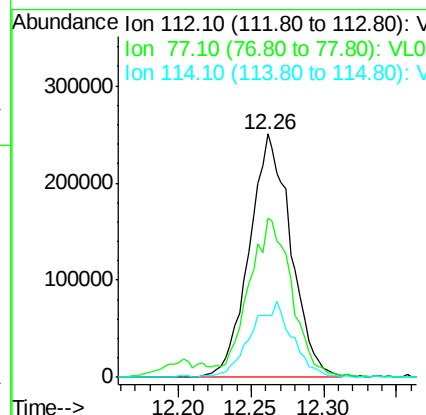
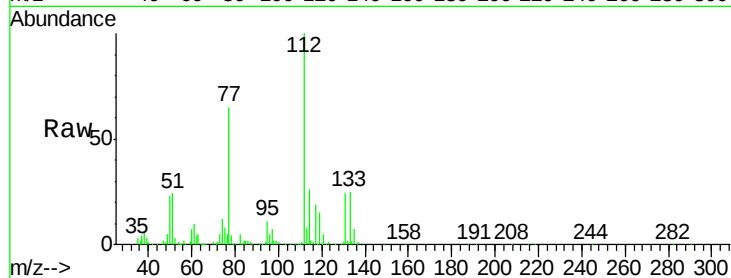
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
112	100		
77	64.6	55.9	83.9
114	25.4	27.6	33.8#

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#58

Ethyl Benzene

Concen: 2.341 ppbv

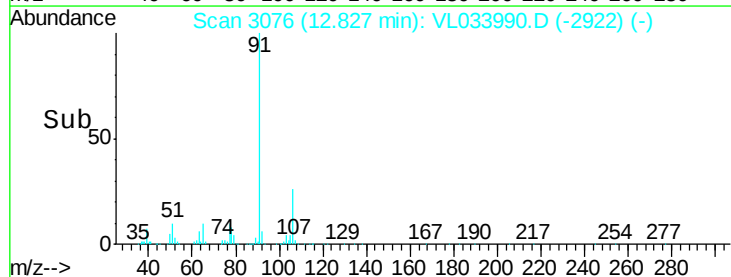
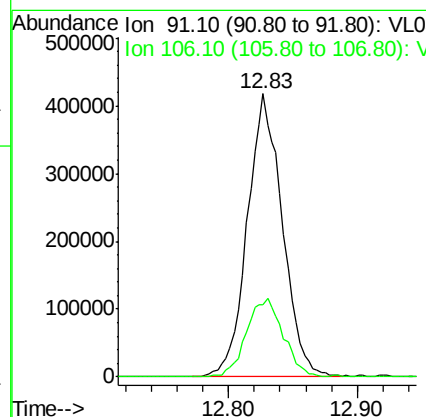
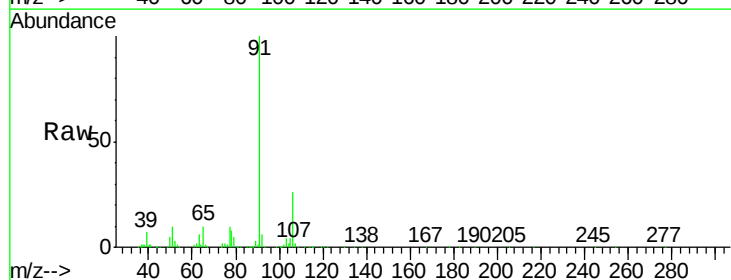
RT: 12.83 min Scan# 3076

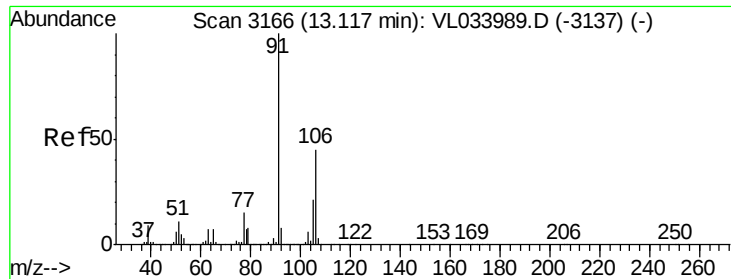
Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.7	23.3	34.9





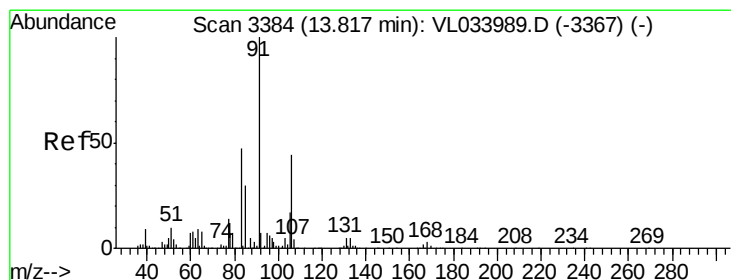
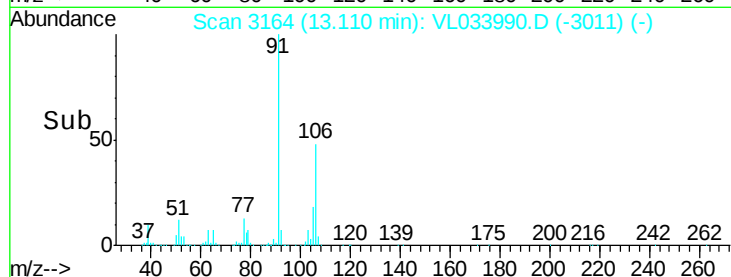
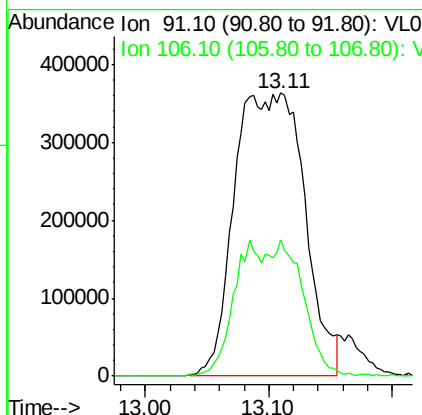
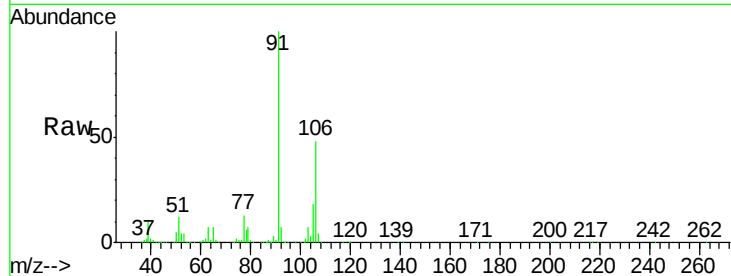
#59
m/p-Xylene
Concen: 4.653 ppbv m
RT: 13.11 min Scan# 3164
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1427324
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#

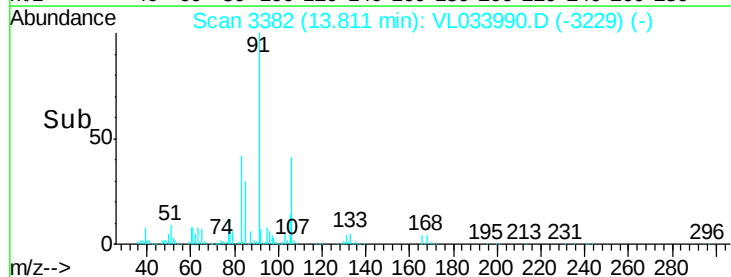
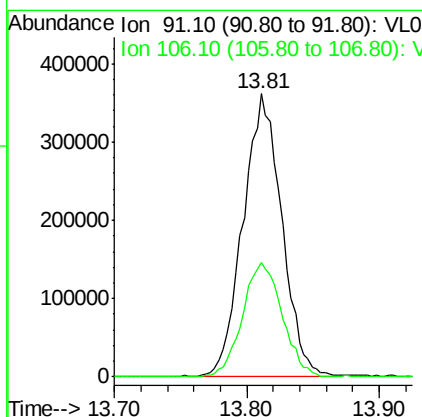
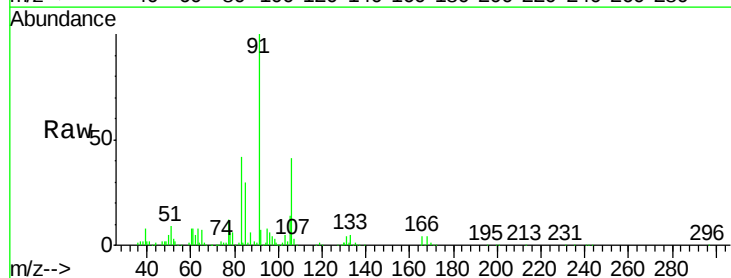
Manual Integrations
APPROVED

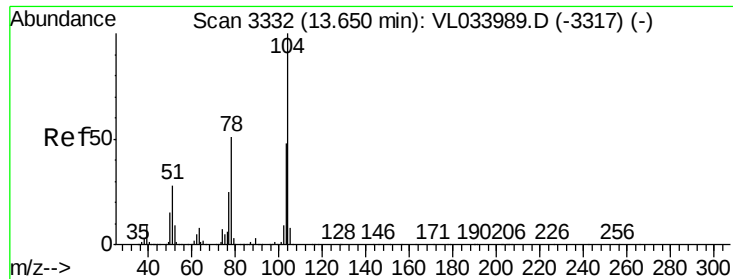
MMDadoda
7/3/2019 11:03:28 PM



#60
o-Xylene
Concen: 2.313 ppbv
RT: 13.81 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 91 Resp: 732668
Ion Ratio Lower Upper
91 100
106 41.7 21.9 65.7





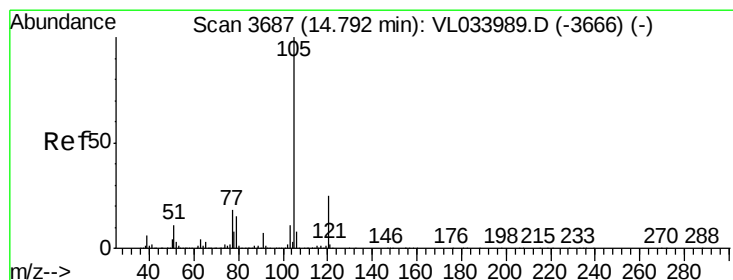
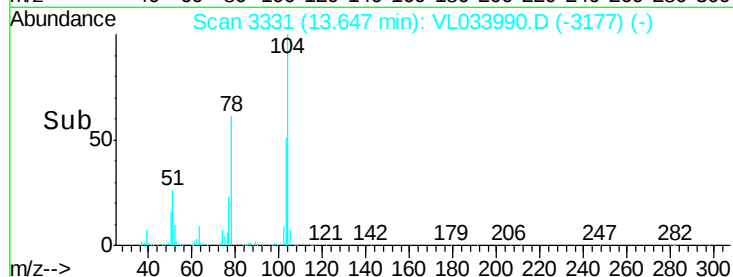
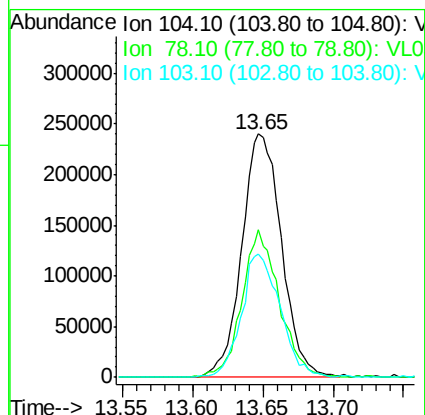
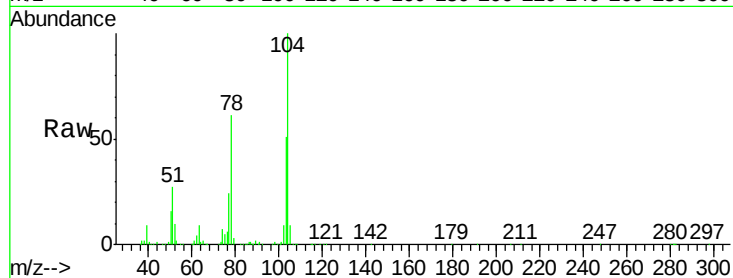
#61
Stvrene
Concen: 2.311 ppbv
RT: 13.65 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.0	43.9	65.9
103	49.9	38.1	57.1

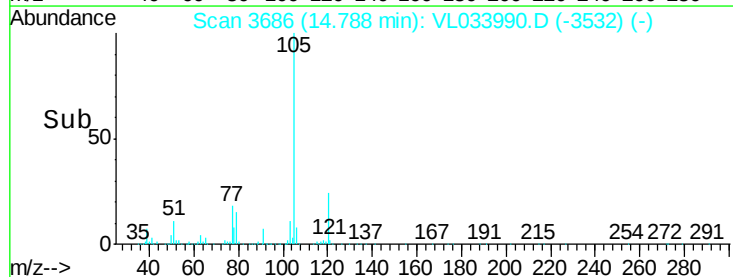
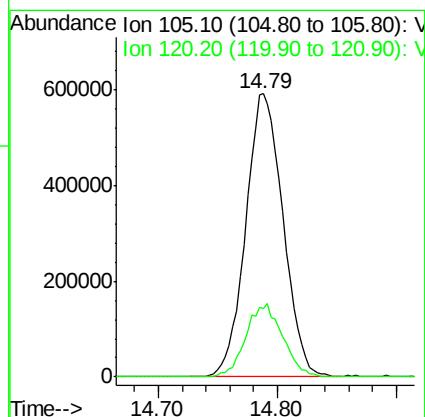
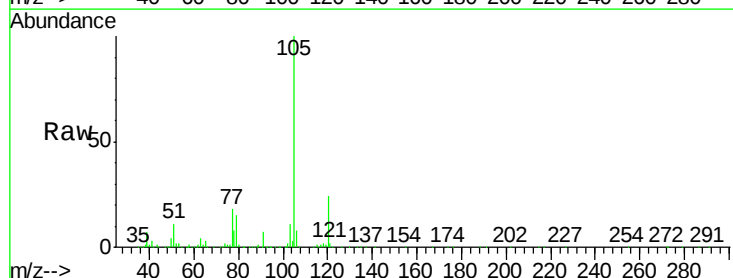
Manual Integrations
APPROVED

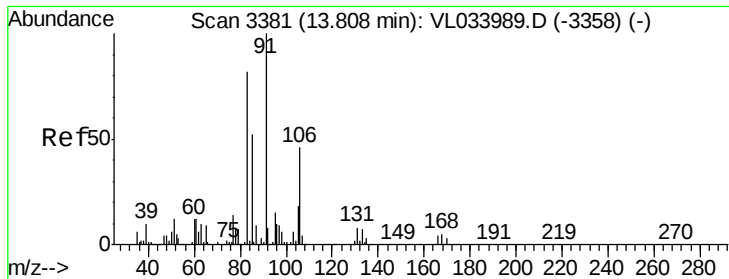
MMDadoda
7/3/2019 11:03:28 PM



#62
Isopropylbenzene
Concen: 3.008 ppbv
RT: 14.79 min Scan# 3686
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 2.144 ppbv

RT: 13.80 min Scan# 3378

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

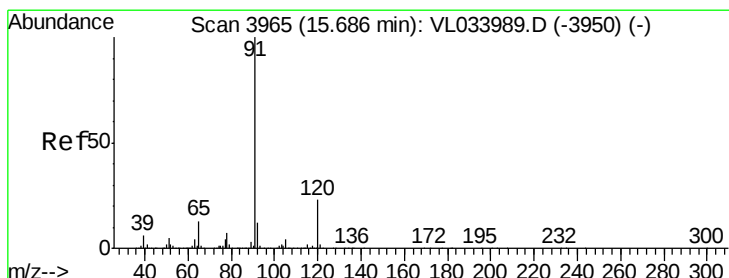
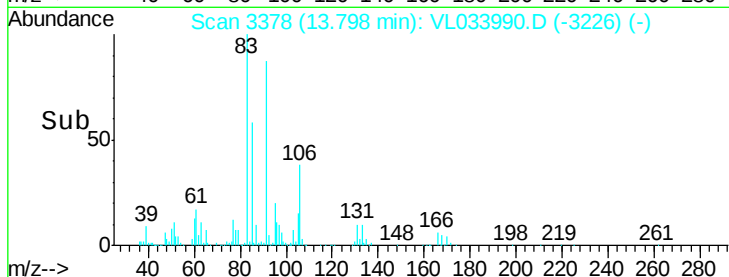
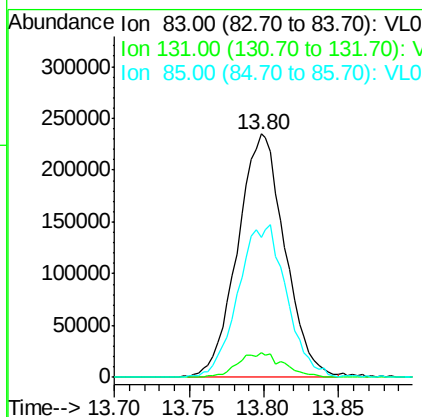
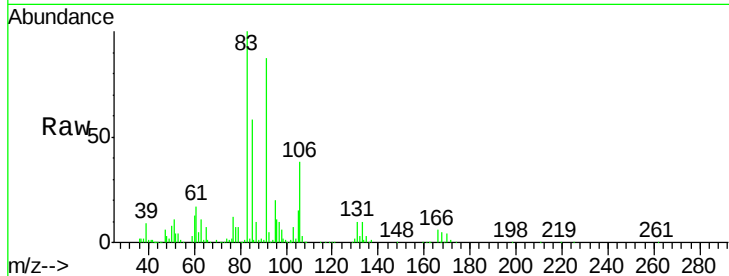
ClientSampleId :

VSTDIC002

Tot Ion:	83	Resp:	511161
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.0	14.9
85	65.2	32.8	98.3

Manual Integrations
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#64

n-propylbenzene

Concen: 3.055 ppbv m

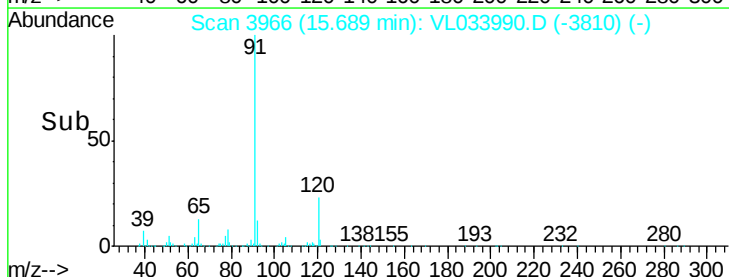
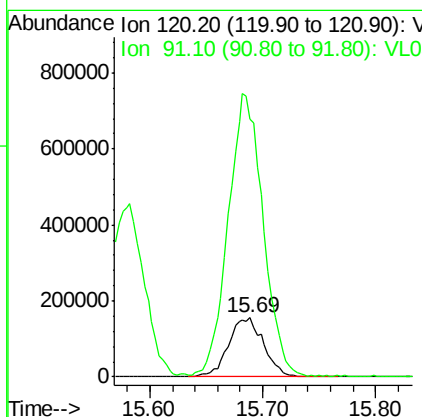
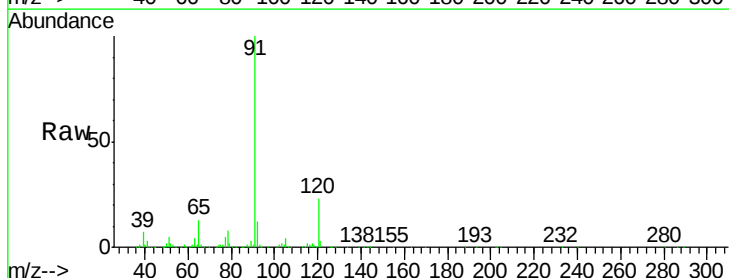
RT: 15.69 min Scan# 3966

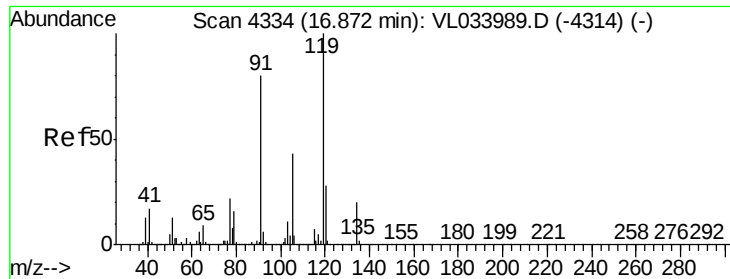
Delta R.T. 0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:	120	Resp:	333925
Ion Ratio	Lower	Upper	
120	100		
91	482.9	386.6	579.8





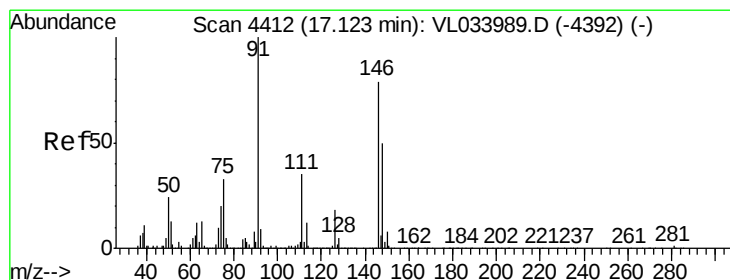
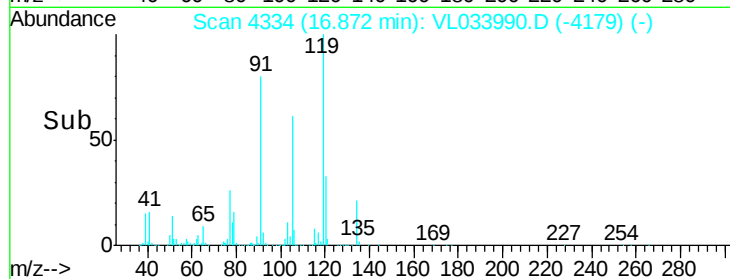
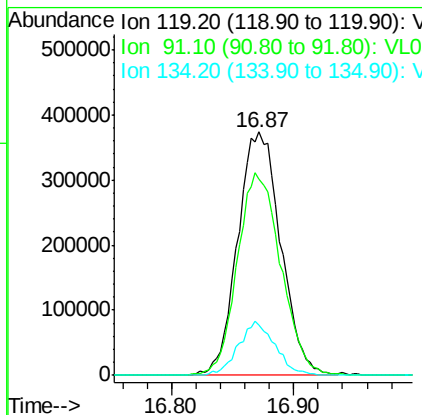
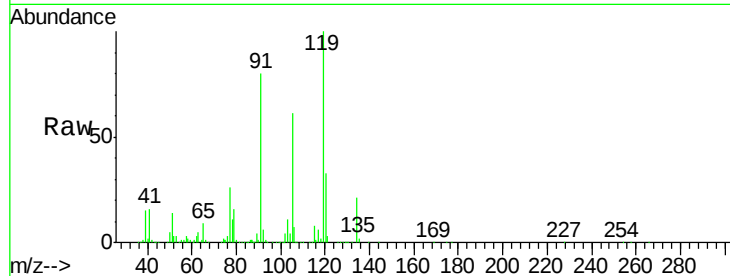
#65
 tert-Butylbenzene
 Concen: 2.308 ppbv
 RT: 16.87 min Scan# 4334
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.2	67.0	100.6
134	19.0	15.8	23.6

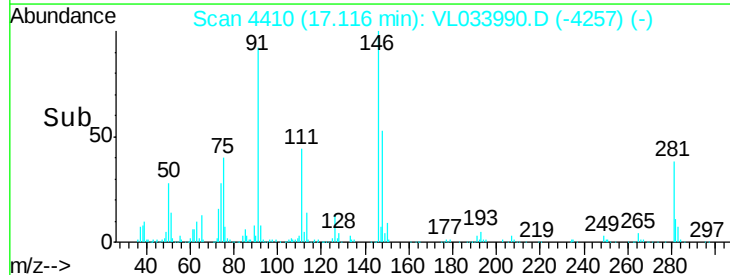
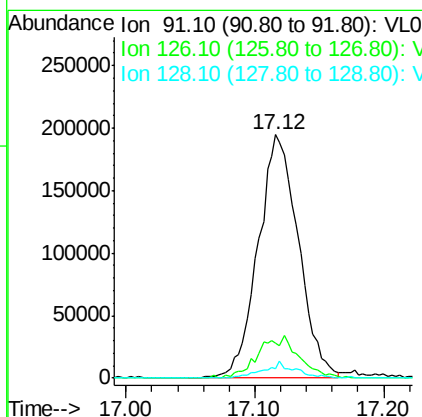
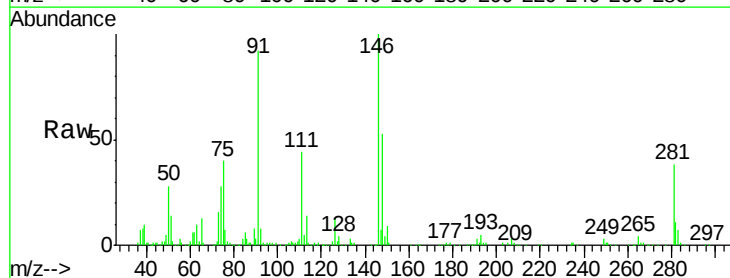
Manual Integrations
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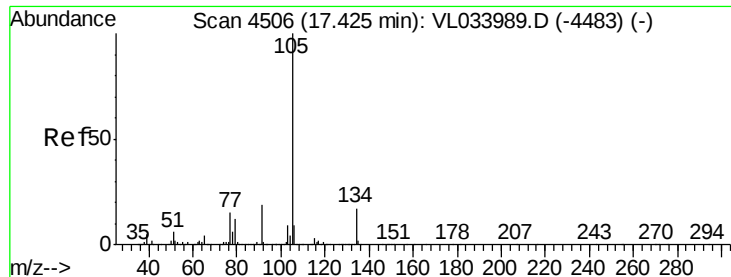
MMDadoda
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#66
 Benzyl Chloride
 Concen: 2.120 ppbv
 RT: 17.12 min Scan# 4410
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.8	13.9	20.9
128	5.5	4.6	7.0





#67

sec-Butylbenzene

Concen: 2.272 ppbv

RT: 17.42 min Scan# 4505

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1258868

Ion Ratio Lower Upper

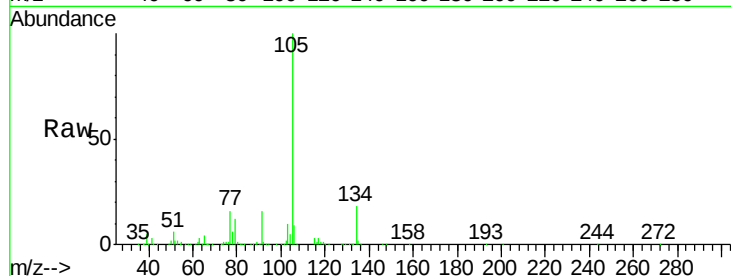
105 100

134 18.7 14.7 22.1

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.42

600000

500000

400000

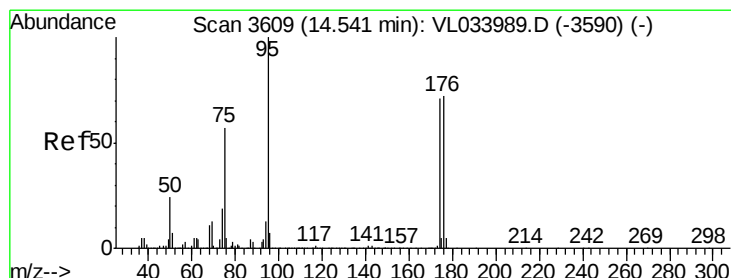
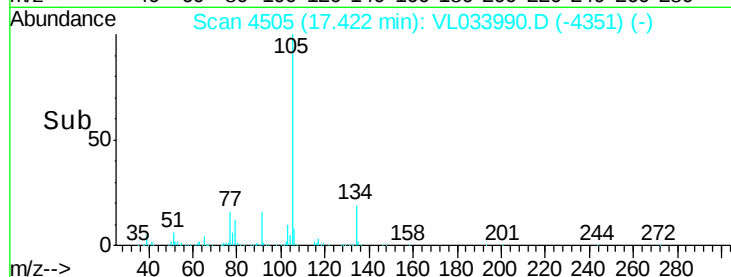
300000

200000

100000

0

Time--> 17.30 17.40 17.50



#68

1-Bromo-4-Fluorobenzene

Concen: 12.525 ppbv

RT: 14.54 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

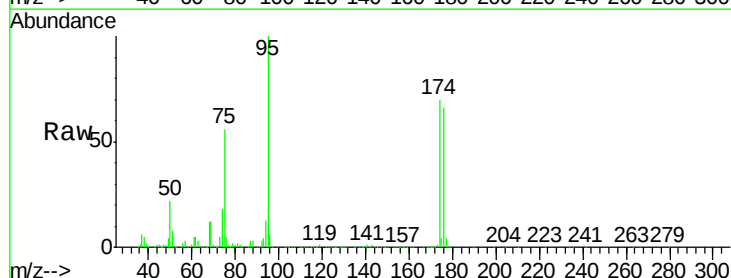
Tgt Ion: 95 Resp: 3077754

Ion Ratio Lower Upper

95 100

174 71.8 60.5 90.7

175 5.1 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.54

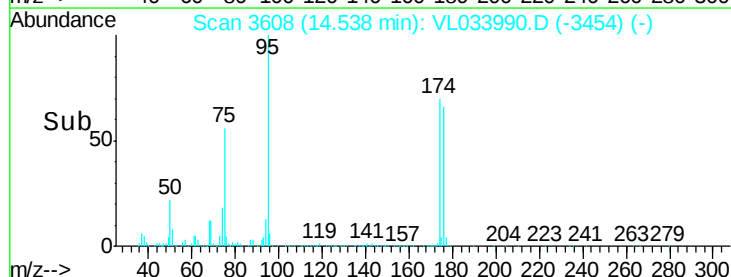
1500000

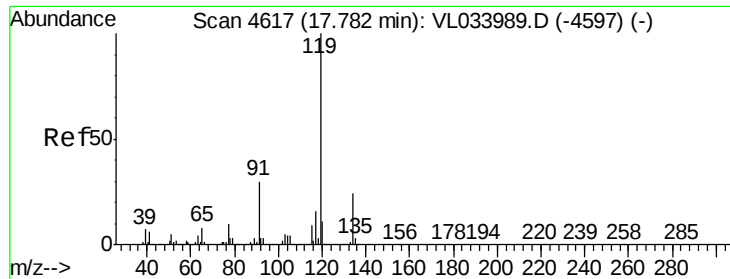
1000000

500000

0

Time--> 14.50 14.60





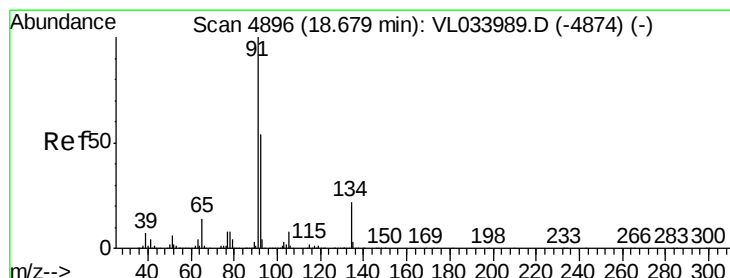
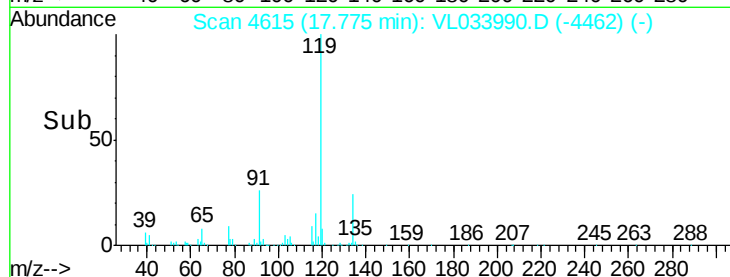
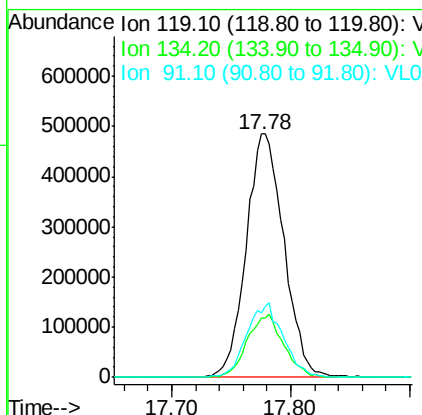
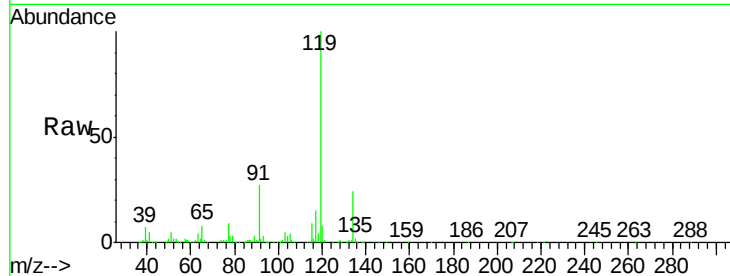
#69
 p-Isopropyltoluene
 Concen: 2.302 ppbv
 RT: 17.78 min Scan# 4615
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.1	30.1
91	29.7	23.6	35.4

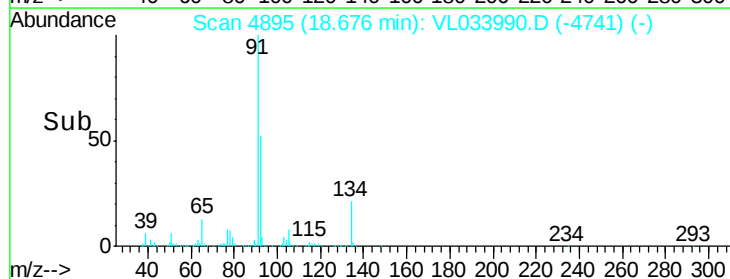
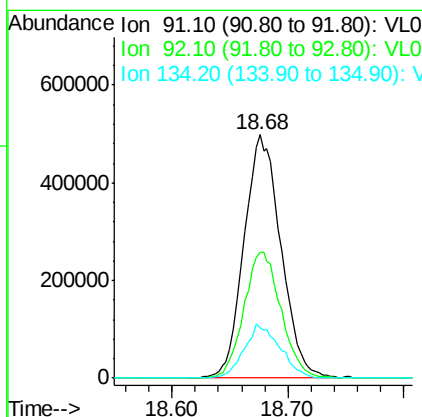
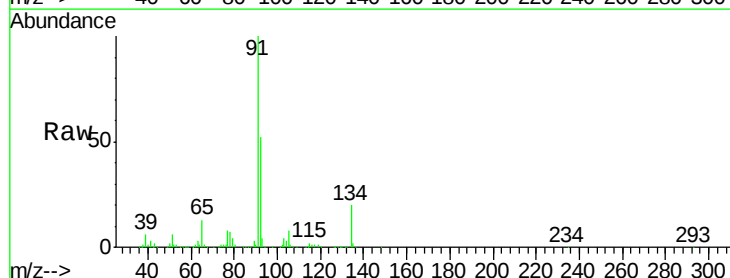
Manual Integrations
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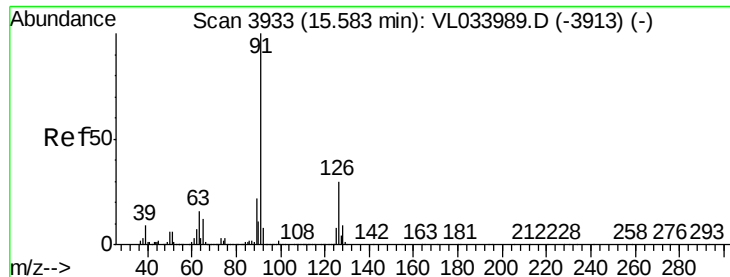
MMDadoda
 7/3/2019 11:03:28 PM



#70
 n-Butylbenzene
 Concen: 2.183 ppbv
 RT: 18.68 min Scan# 4895
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	42.0	63.0
134	21.6	17.9	26.9





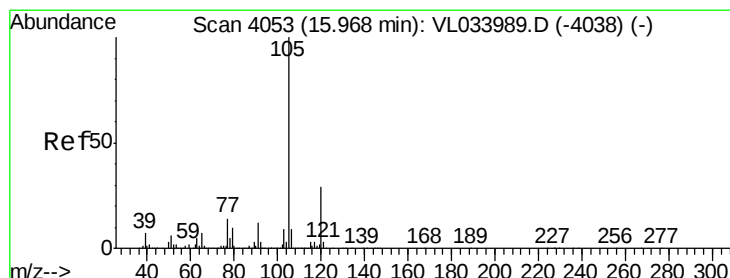
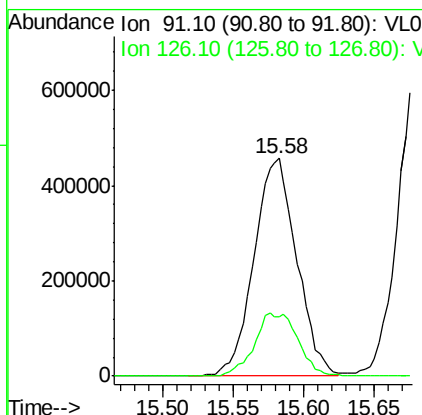
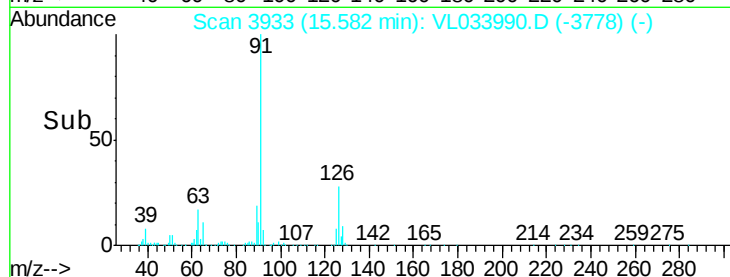
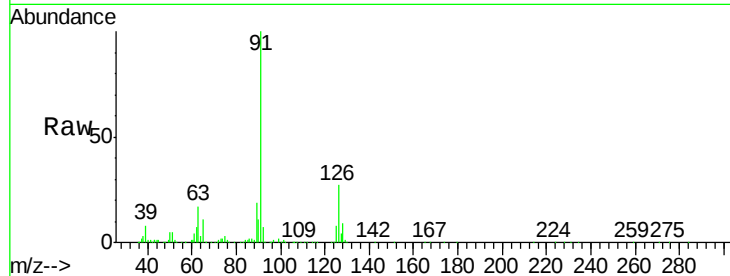
#71
 2-Chlorotoluene
 Concen: 3.072 ppbv
 RT: 15.58 min Scan# 3933
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 91 Resp: 966120
 Ion Ratio Lower Upper
 91 100
 126 29.5 12.3 49.3

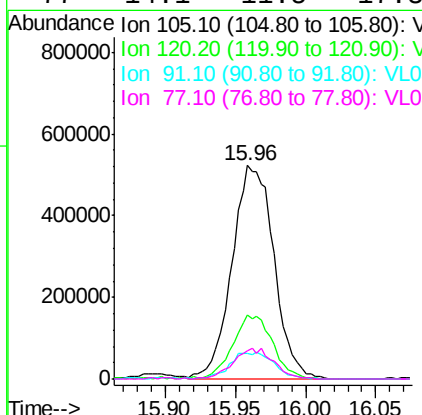
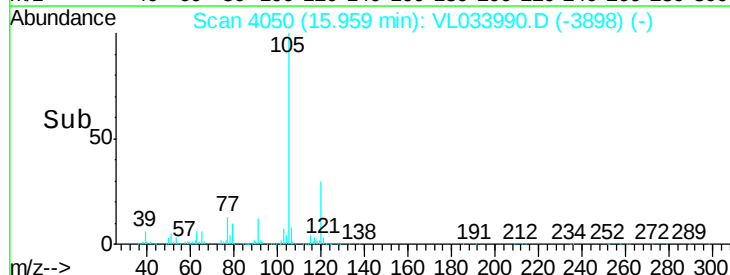
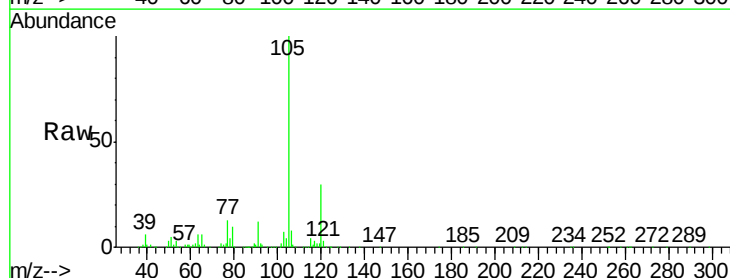
Manual Integrations
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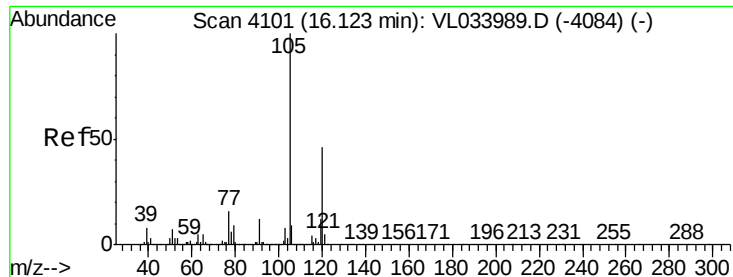
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 7/3/2019 11:03:28 PM



#72
 4-Ethyltoluene
 Concen: 3.002 ppbv
 RT: 15.96 min Scan# 4050
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion: 105 Resp: 1081830
 Ion Ratio Lower Upper
 105 100
 120 28.9 24.1 36.1
 91 13.9 10.6 16.0
 77 14.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 2.288 ppbv

RT: 16.12 min Scan# 4100

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 812162

Ion Ratio Lower Upper

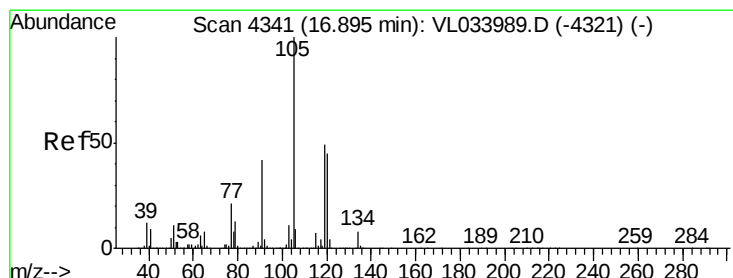
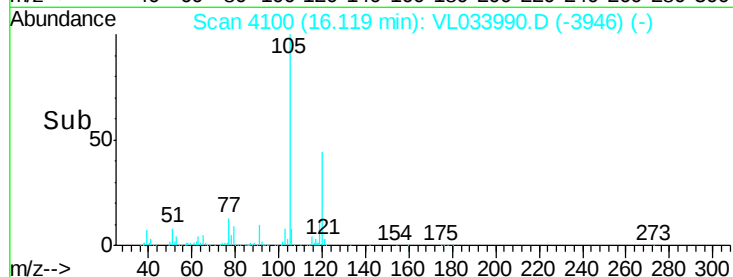
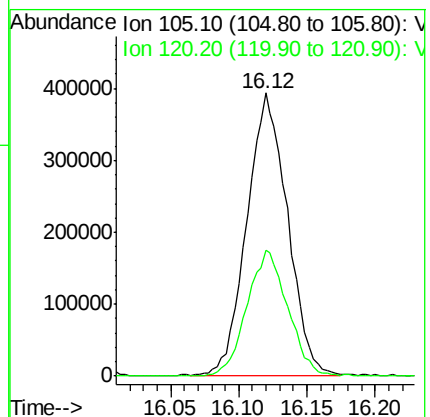
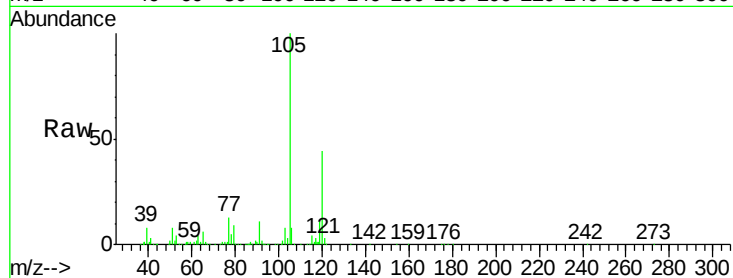
105 100

120 44.3 36.4 54.6

Manual Integrations
APPROVED

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#74

1,2,4-Trimethylbenzene

Concen: 2.203 ppbv

RT: 16.89 min Scan# 4339

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:105 Resp: 901176

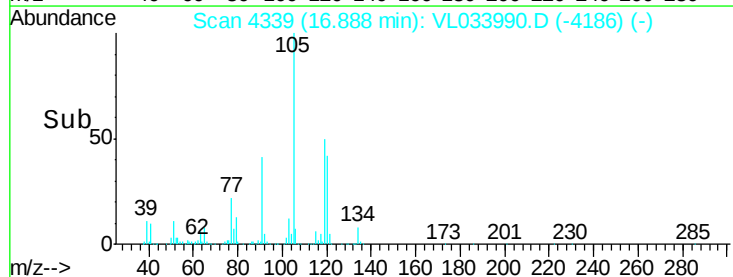
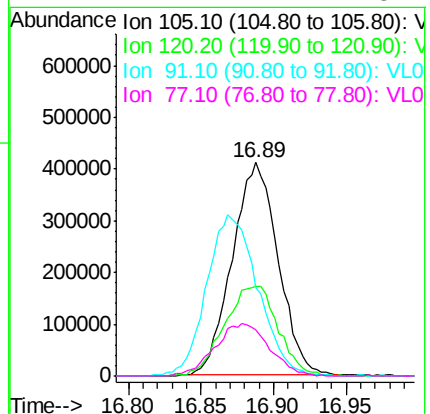
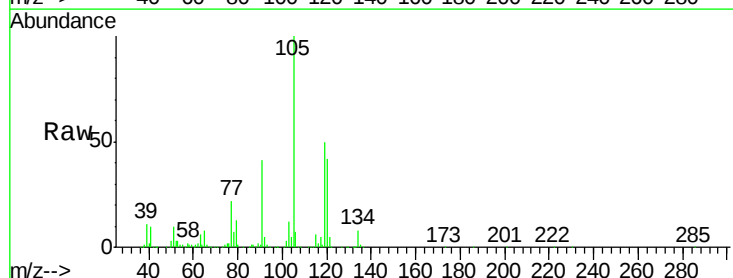
Ion Ratio Lower Upper

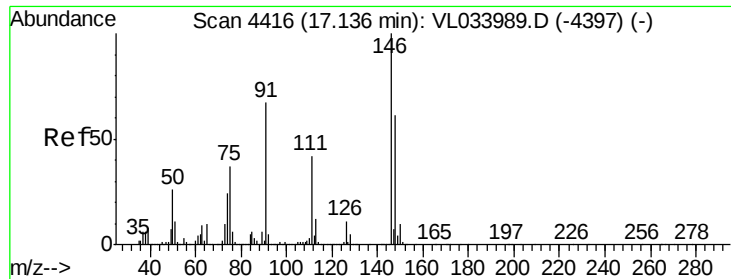
105 100

120 42.0 36.2 54.2

91 41.4 34.3 51.5

77 21.7 17.1 25.7





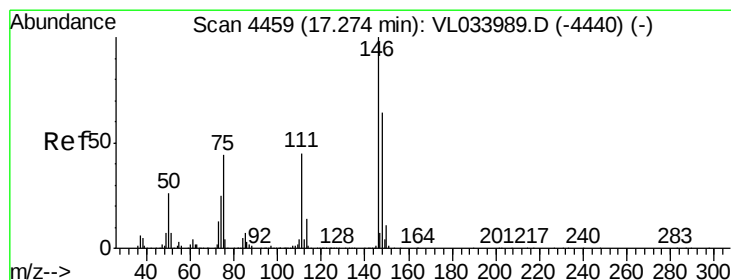
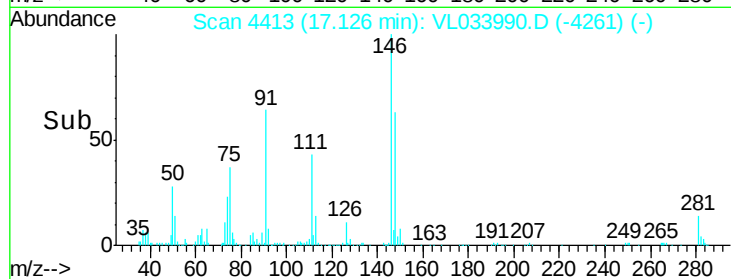
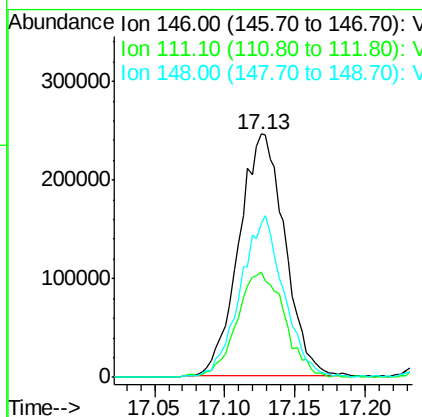
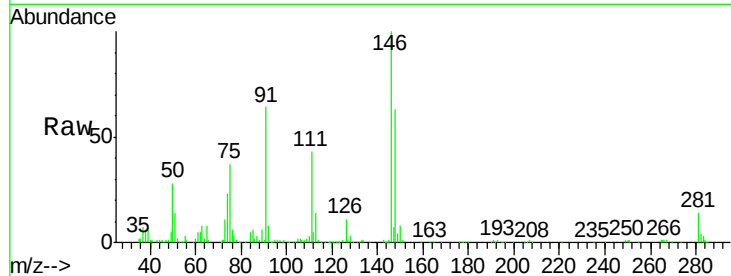
#75
 1,3-Dichlorobenzene
 Concen: 2.177 ppbv
 RT: 17.13 min Scan# 4413
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.3	66.9
148	63.8	32.0	96.2

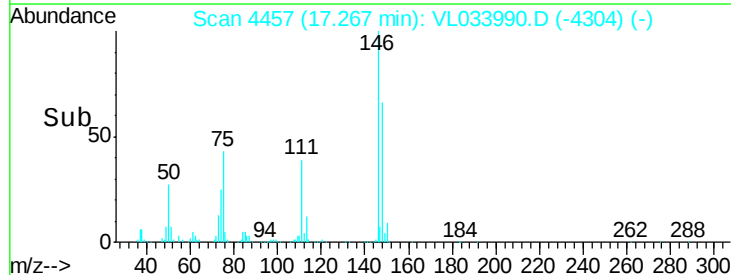
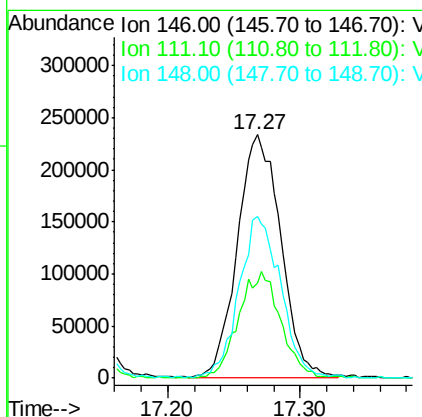
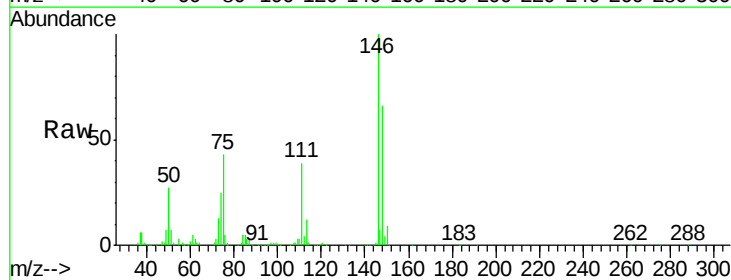
Manual Integrations
 APPROVED

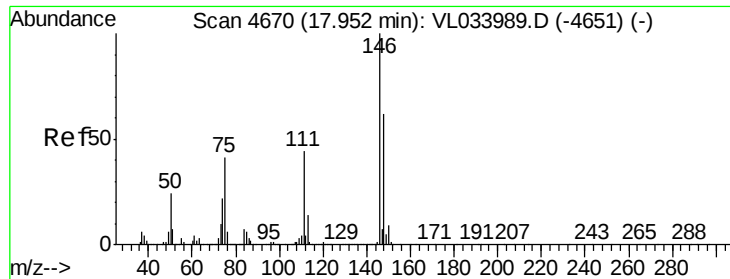
MMDadoda
 7/3/2019 11:03:28 PM



#76
 1,4-Dichlorobenzene
 Concen: 2.252 ppbv
 RT: 17.27 min Scan# 4457
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.9	65.5
148	64.3	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 2.234 ppbv m

RT: 17.95 min Scan# 4670

Delta R.T. -0.00 min

Lab File: VL033990.D

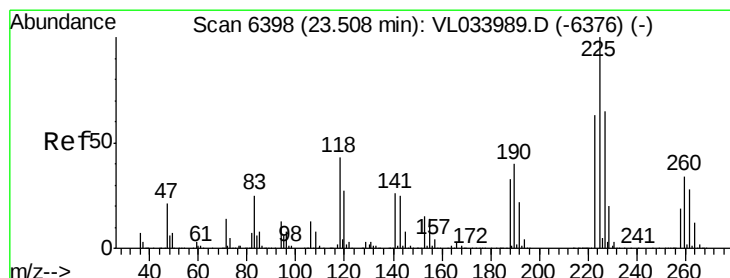
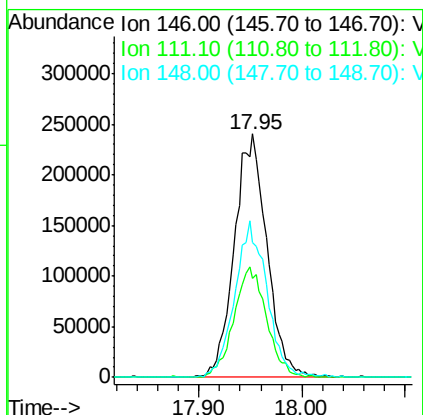
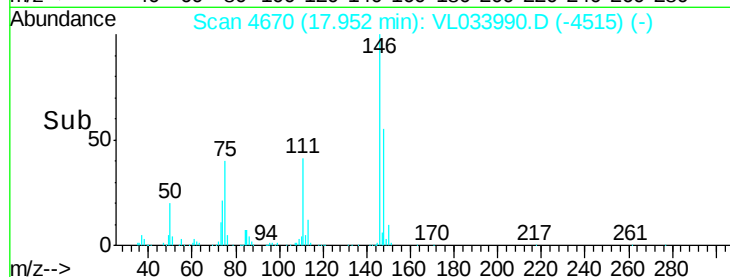
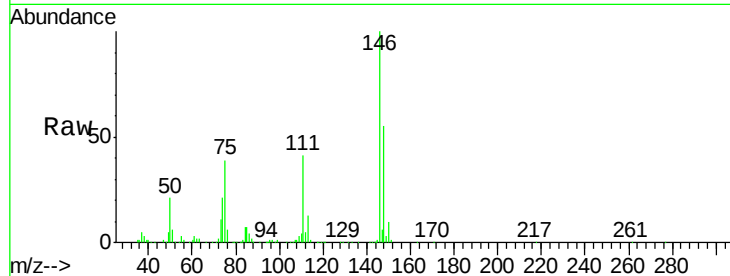
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.7	68.1#
148	0.0	32.1	96.3#

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#78

Hexachloro-1,3-Butadiene

Concen: 2.516 ppbv m

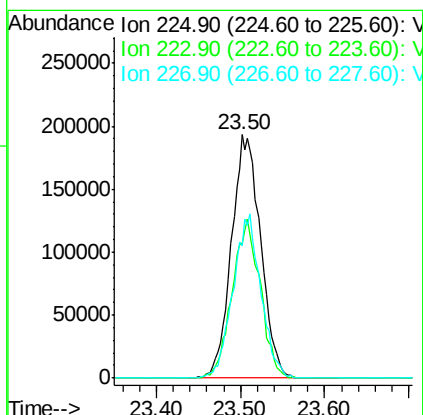
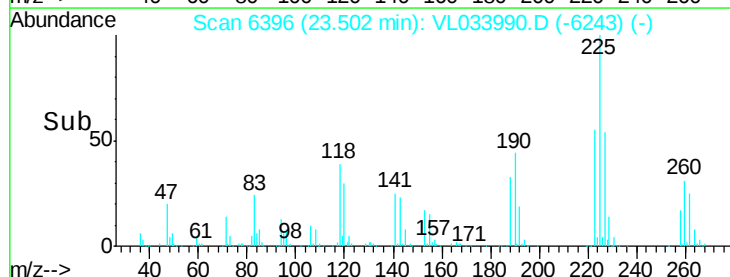
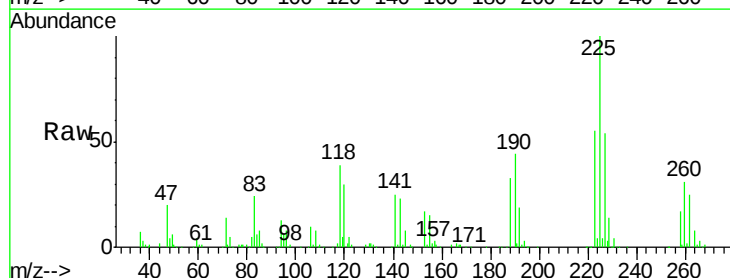
RT: 23.50 min Scan# 6396

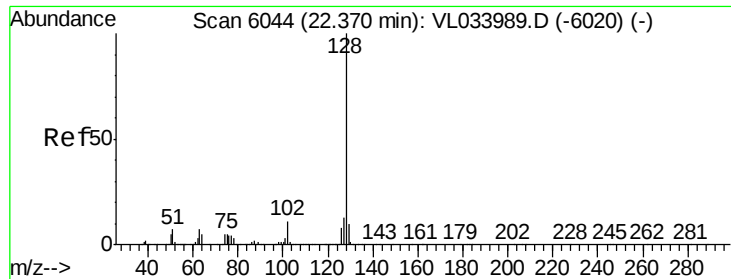
Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	51.5	77.3#
227	0.0	52.1	78.1#





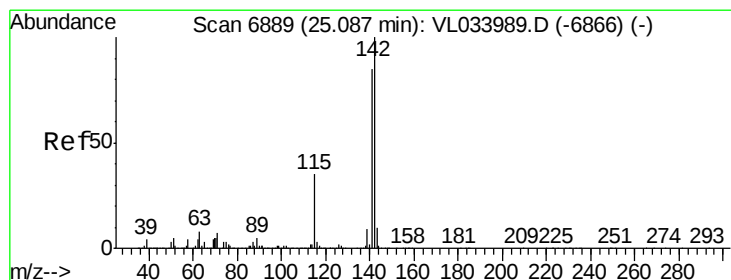
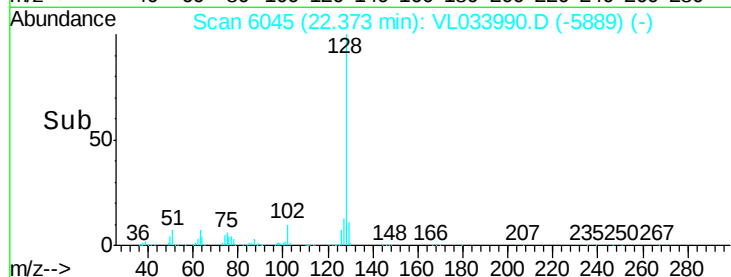
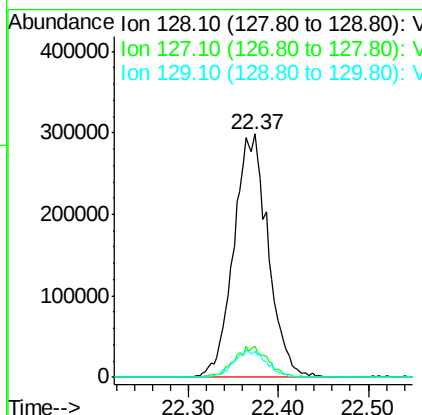
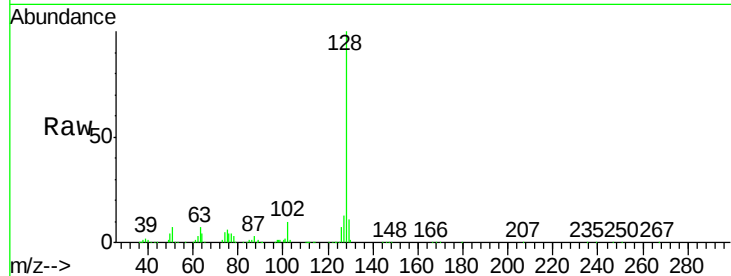
#79
Naphthalene
Concen: 2.421 ppbv m
RT: 22.37 min Scan# 6045
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	10.8	8.3	12.5

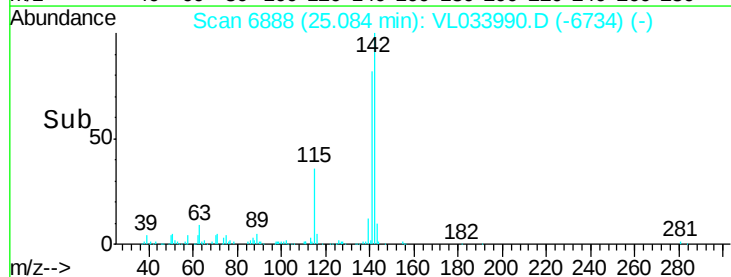
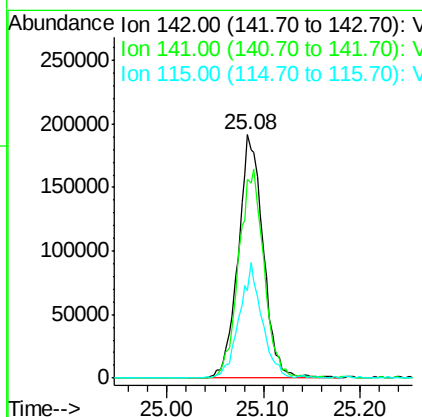
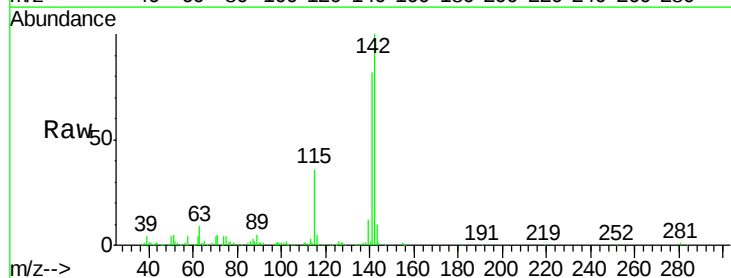
Manual Integrations
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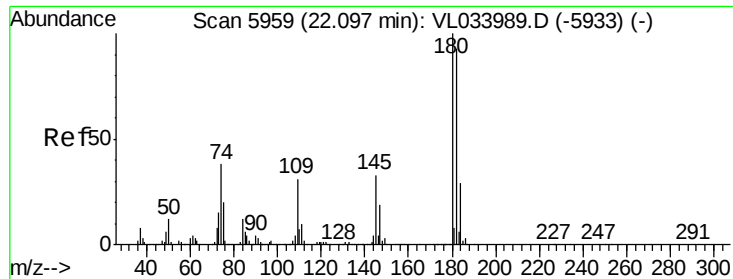
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#80
Naphthalene, 2-methyl-
Concen: 2.639 ppbv
RT: 25.08 min Scan# 6888
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.2	68.2	102.2
115	43.5	29.9	44.9





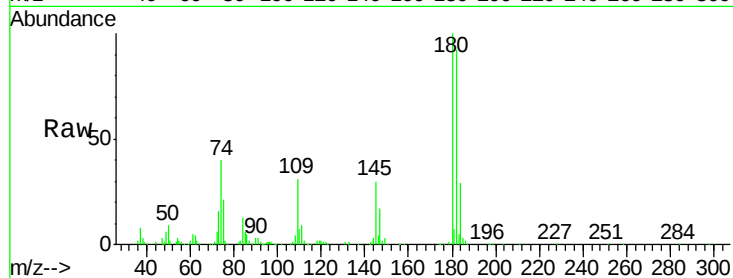
#81
 1,2,4-Trichlorobenzene
 Concen: 2.413 ppbv
 RT: 22.09 min Scan# 5958
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	498176		
182	94.0		76.6	114.8
184	31.4		24.6	36.8

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

