

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033257.D
 Acq On : 8 Mar 2019 13:27
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:08 AM

Quant Time: Mar 09 04:33:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 09
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	974054	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2288512	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2323172	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1976715	11.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	381556	2.773	ppbv	97
3) Chlorodifluoromethane	3.01	51	231886	2.080	ppbv	98
4) Chloromethane	3.17	50	119750	2.087	ppbv	93
5) Vinyl Chloride	3.29	62	117834	1.831	ppbv	99
6) Bromomethane	3.52	94	74704	2.030	ppbv	83
7) Chloroethane	3.60	64	43999	2.046	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	305688	2.247	ppbv	99
9) Propene	3.04	41	103977	2.093	ppbv	98
10) Heptane	8.24	43	271864	2.011	ppbv	99
11) Trichlorofluoromethane	4.00	101	344076	2.130	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	225337	2.151	ppbv	98
13) Ethanol	3.65	45	33369m	2.247	ppbv	
14) Bromoethene	3.79	108	94067	2.132	ppbv	100
15) Acetone	3.90	43	258148	2.059	ppbv	97
16) 1,3-Butadiene	3.36	39	100538	2.009	ppbv	91
17) tert-Butyl alcohol	4.37	59	39677m	1.942	ppbv	
18) 1,1-Dichloroethene	4.35	96	102635	2.201	ppbv	98
19) Isopropyl Alcohol	4.03	45	138738	1.862	ppbv #	98
20) Methylene Chloride	4.41	84	106479	2.241	ppbv	98
21) Allyl Chloride	4.47	41	146633	2.096	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	102025	2.143	ppbv	93
23) Vinyl Acetate	5.15	43	352813	1.908	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	255789	1.940	ppbv	98
25) Ethyl Acetate	5.77	43	468900	2.040	ppbv	99
26) Hexane	5.78	57	222211	2.069	ppbv	95
27) Carbon Disulfide	4.62	76	225170	2.174	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	284702	1.922	ppbv	100
29) Chloroform	5.84	83	334144	2.000	ppbv	98
30) Cyclohexane	7.24	84	162794	2.024	ppbv	88
31) cis-1,2-Dichloroethene	5.64	61	206152	1.987	ppbv	93
32) 1,1,1-Trichloroethane	6.61	97	306036	1.888	ppbv	99
34) 2-Butanone	5.33	43	298711	1.884	ppbv	99
35) Carbon Tetrachloride	7.13	117	325328	1.879	ppbv	99
36) Benzene	7.00	78	413413	1.925	ppbv	97
37) 1,2-Dichloroethane	6.41	62	255306	1.910	ppbv	100
38) Trichloroethene	7.95	130	158043	1.948	ppbv	98
39) 1,2-Dichloropropane	7.73	63	158036	1.885	ppbv	98
40) 1,4-Dioxane	7.97	88	58888m	1.893	ppbv	
41) Tetrahydrofuran	6.15	42	162398	1.864	ppbv	99
42) Bromodichloromethane	7.91	83	354249	1.874	ppbv	98
43) Methyl Methacrylate	8.14	69	159016	1.830	ppbv	93

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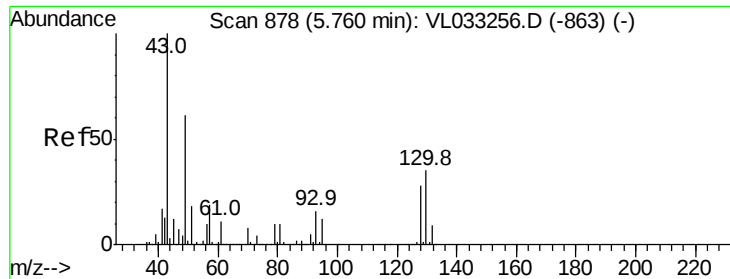
Manual Integrations
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 3/11/2019 10:10:08 AM

Quant Time: Mar 09 04:33:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 09
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	732861	1.929	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	192236	1.828	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	227349	1.813	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	168873	1.871	ppbv	97
48) Dibromochloromethane	10.44	129	282794	1.935	ppbv	99
49) Bromoform	13.20	173	252594	2.164	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	438196	1.868	ppbv	100
51) 2-Hexanone	10.27	43	329717	1.879	ppbv #	98
52) Tetrachloroethene	11.37	164	151279	1.890	ppbv	97
53) Toluene	9.94	91	473991	1.909	ppbv	98
54) 1,2-Dibromoethane	10.75	107	258549	1.886	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	202529	2.008	ppbv #	1
57) Chlorobenzene	12.29	112	353066	1.952	ppbv	99
58) Ethyl Benzene	12.86	91	728423	2.267	ppbv	98
59) m/p-Xylene	13.12	91	1248527m	4.560	ppbv	
60) o-Xylene	13.85	91	609447	2.334	ppbv	98
61) Styrene	13.68	104	412880m	2.249	ppbv	
62) Isopropylbenzene	14.82	105	824241	2.264	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	390963	2.104	ppbv	98
64) n-propylbenzene	15.72	120	202803	2.248	ppbv	96
65) tert-Butylbenzene	16.90	119	721625	2.322	ppbv	99
66) Benzyl Chloride	17.15	91	241577m	2.010	ppbv	
67) sec-Butylbenzene	17.45	105	1009390	2.278	ppbv	99
69) p-Isopropyltoluene	17.81	119	828196	2.312	ppbv	100
70) n-Butylbenzene	18.71	91	886534	2.259	ppbv	99
71) 2-Chlorotoluene	15.61	91	630114m	2.264	ppbv	
72) 4-Ethyltoluene	15.99	105	650832	2.281	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	624872	2.282	ppbv	94
74) 1,2,4-Trimethylbenzene	16.92	105	641440	2.228	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	378286	2.247	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	365040	2.188	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	370049	2.264	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	272662	2.357	ppbv	100
79) Naphthalene	22.41	128	626695	1.780	ppbv	96
80) Naphthalene, 2-methyl-	25.12	142	71986	0.684	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	337336	1.907	ppbv	98

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



#1

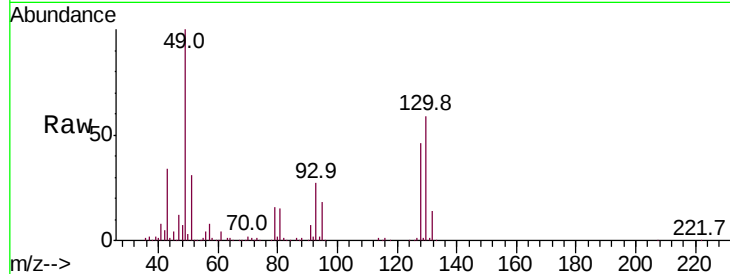
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. 0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.7	22.5	67.5
130	59.2	29.1	87.4

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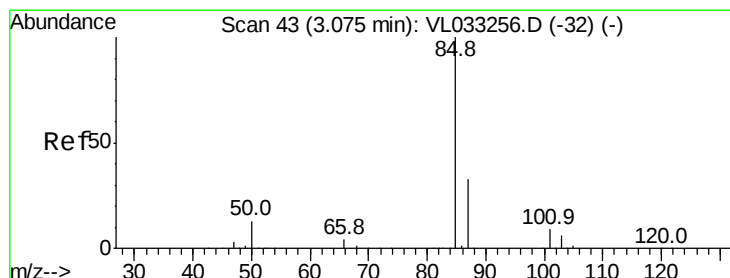
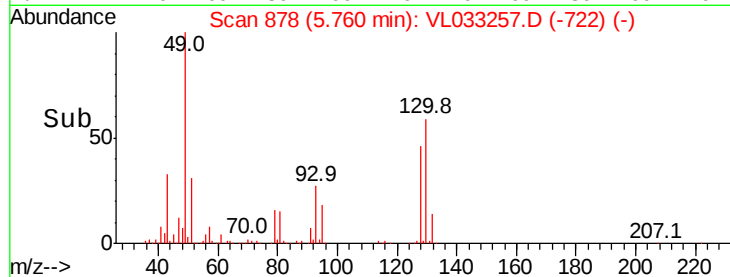
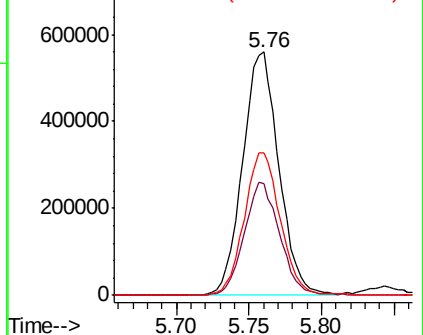
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

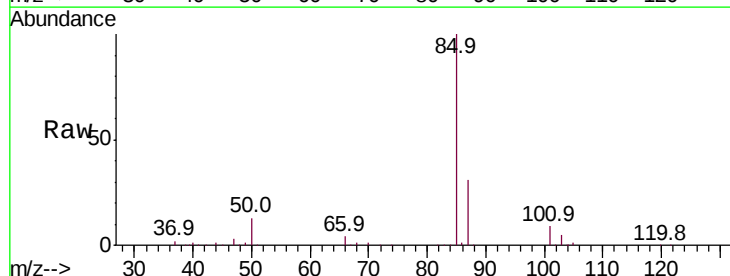
Ion 130.00 (129.70 to 130.70): V



#2

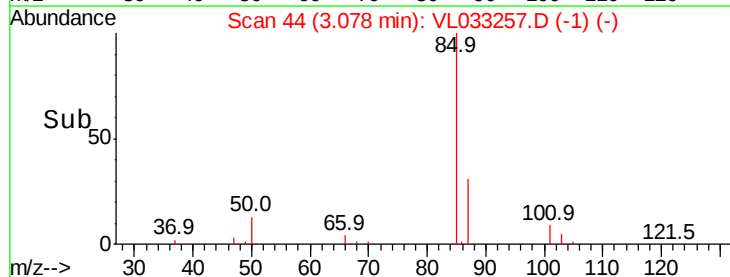
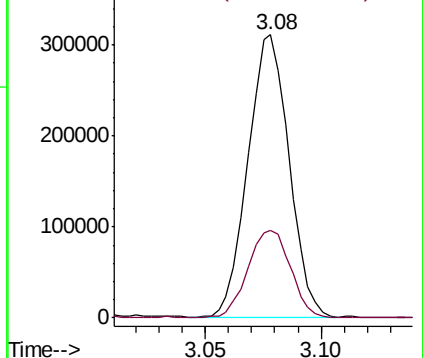
Dichlorodifluoromethane
Concen: 2.773 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

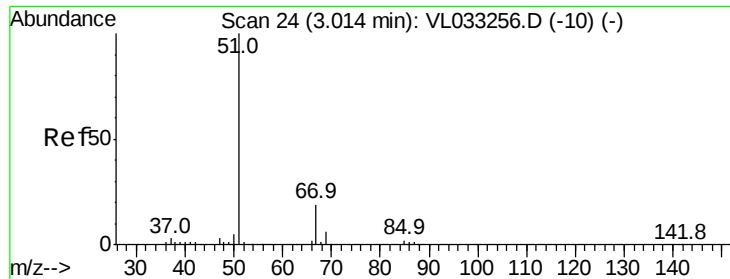
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.0	26.2	39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

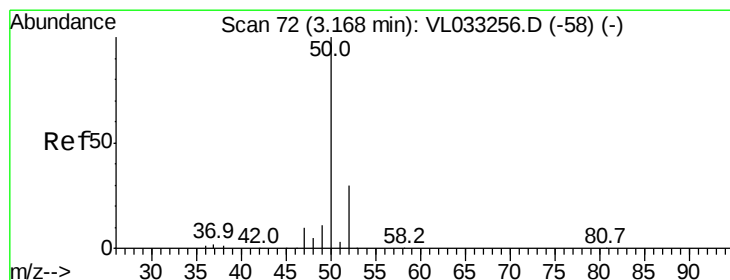
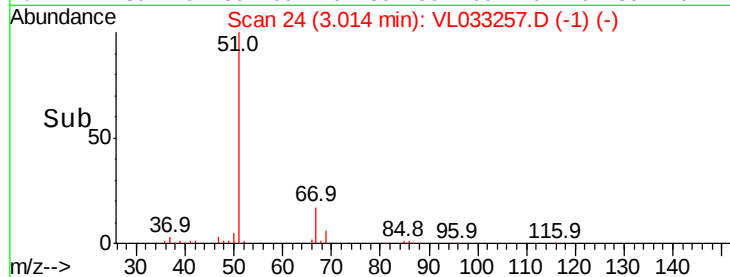
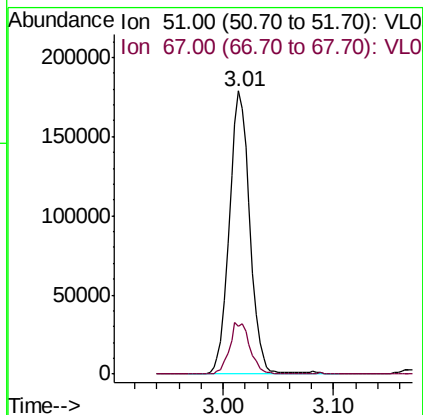
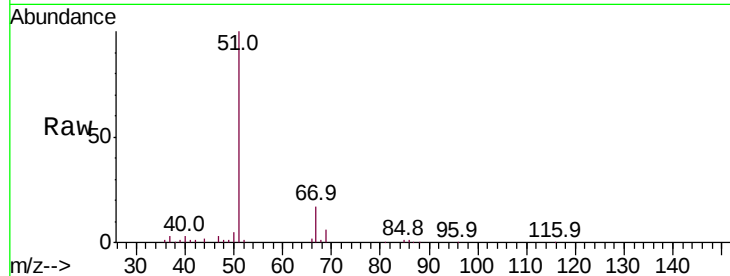
Chlorodifluoromethane
 Concen: 2.080 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. 0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.0	15.0	22.6

Manual Integrations
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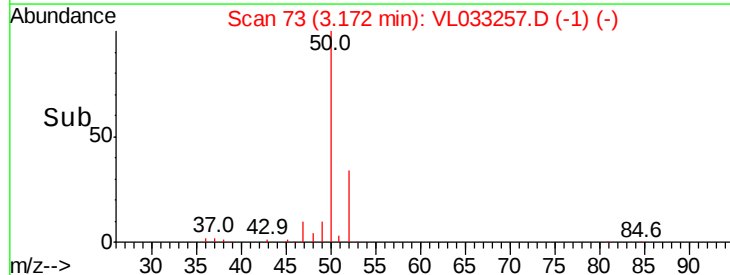
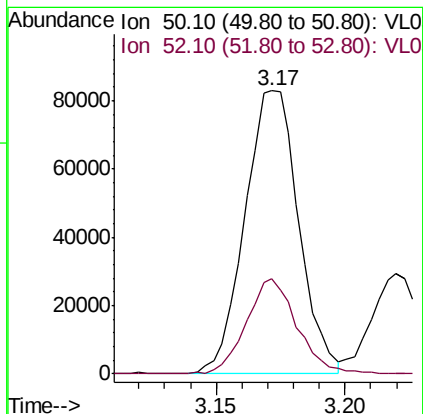
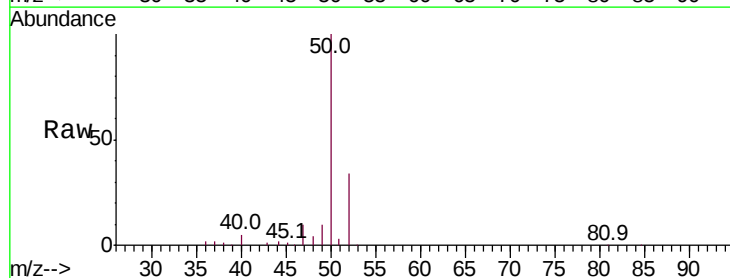
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 3/11/2019 10:10:08 AM

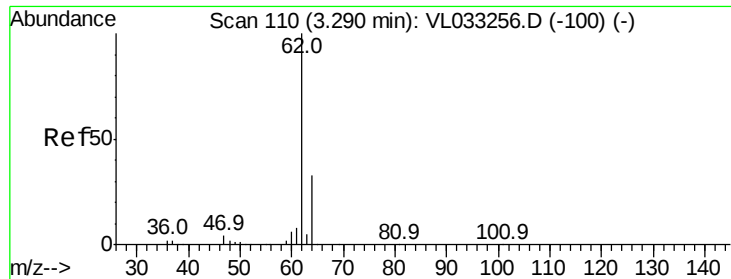


#4

Chloromethane
 Concen: 2.087 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.1	24.2	36.2





#5

Vinyl Chloride

Concen: 1.831 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 117834

Ion Ratio Lower Upper

62 100

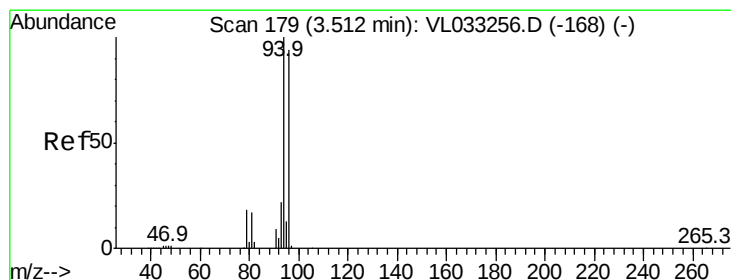
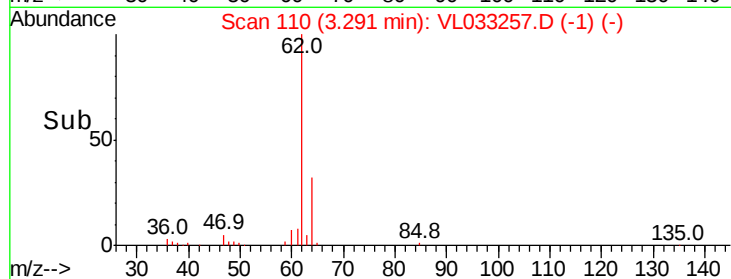
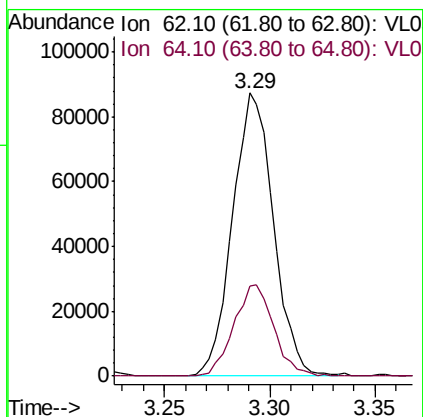
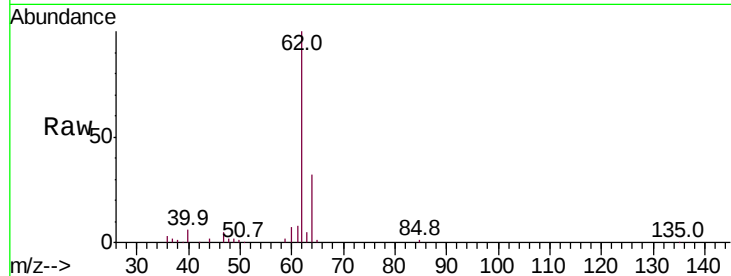
64 32.3 26.4 39.6

Manual Integrations

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#6

Bromomethane

Concen: 2.030 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.01 min

Lab File: VL033257.D

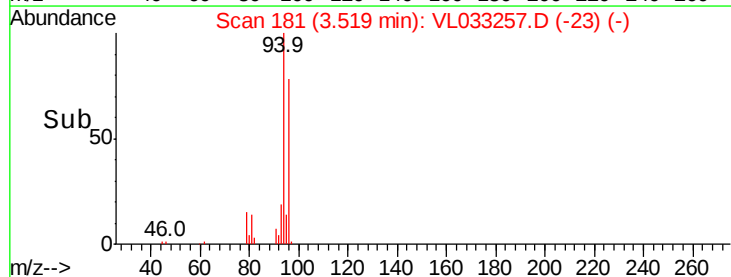
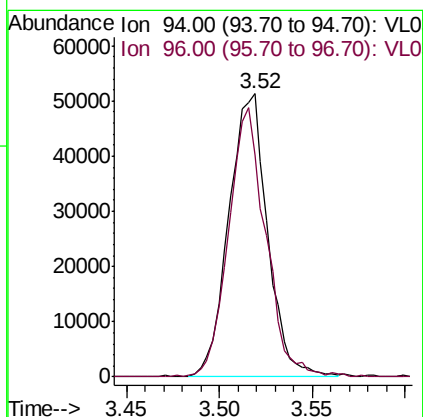
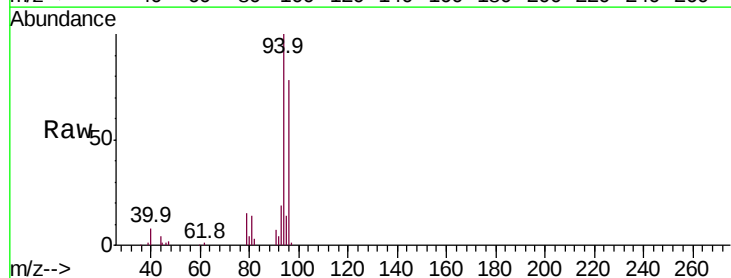
Acq: 8 Mar 2019 13:27

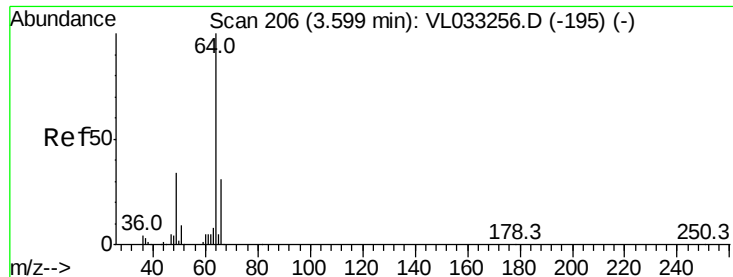
Tgt Ion: 94 Resp: 74704

Ion Ratio Lower Upper

94 100

96 77.7 75.3 112.9





#7

Chloroethane

Concen: 2.046 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 43999

Ion Ratio Lower Upper

64 100

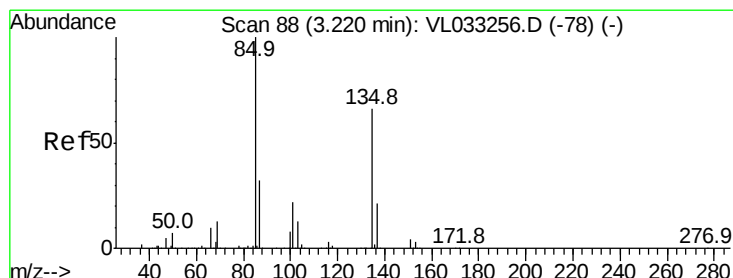
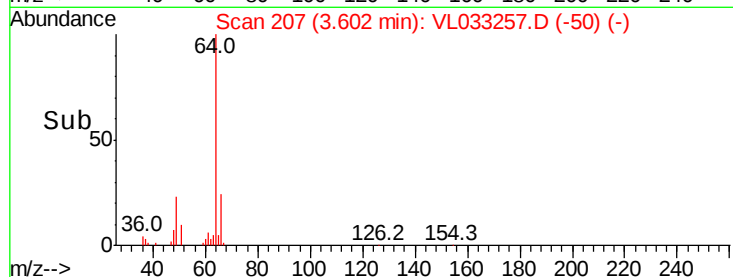
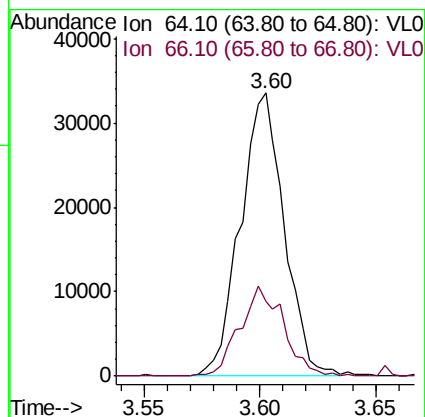
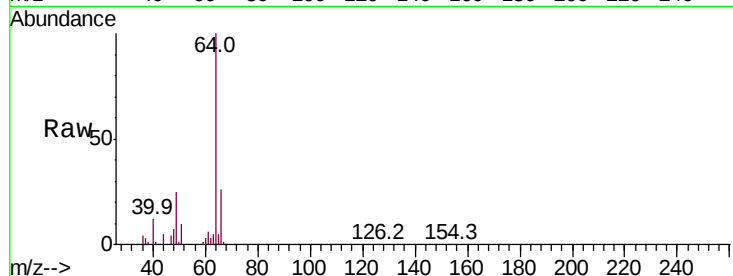
66 26.9 25.2 37.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 2.247 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033257.D

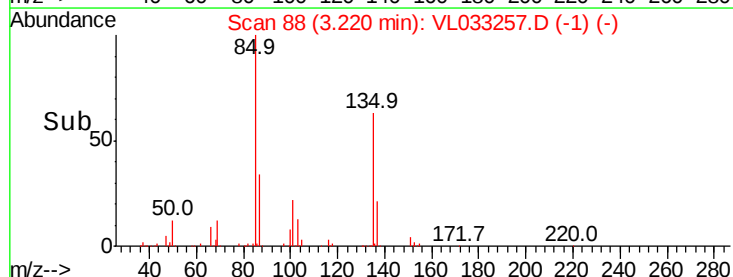
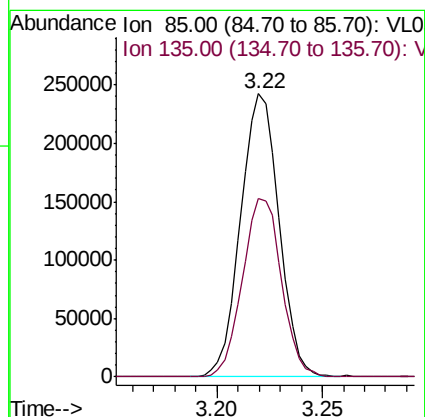
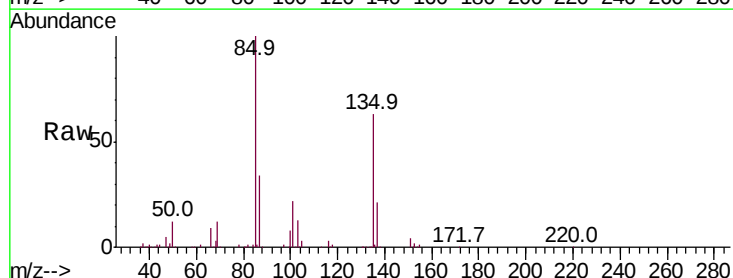
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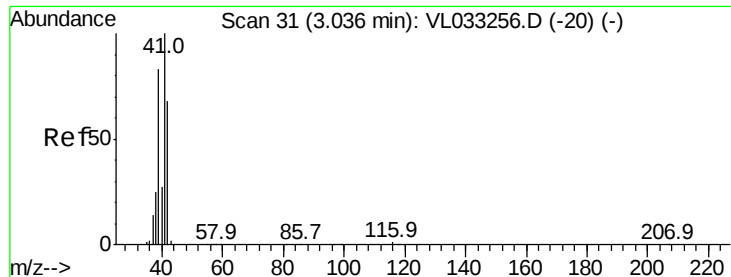
Tgt Ion: 85 Resp: 305688

Ion Ratio Lower Upper

85 100

135 64.4 52.3 78.5





#9

Propene

Concen: 2.093 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 103977

Ion Ratio Lower Upper

41 100

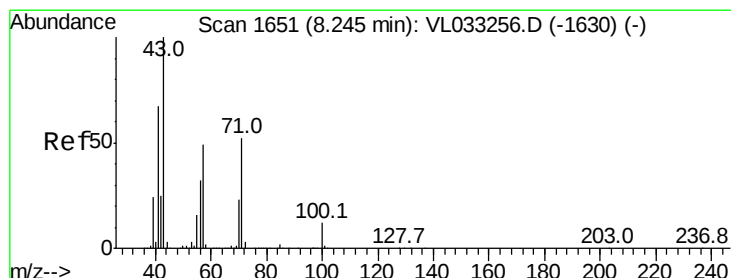
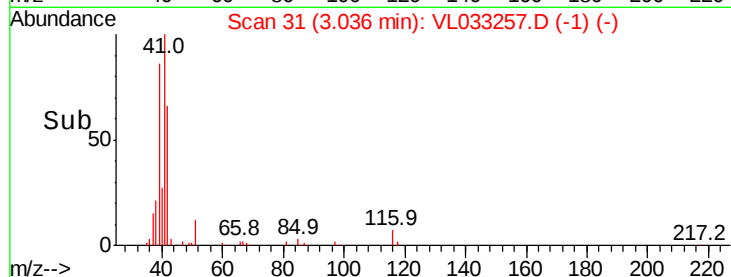
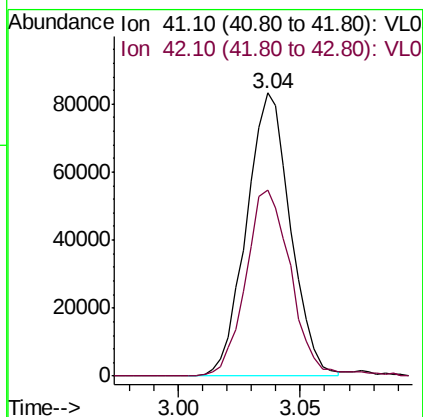
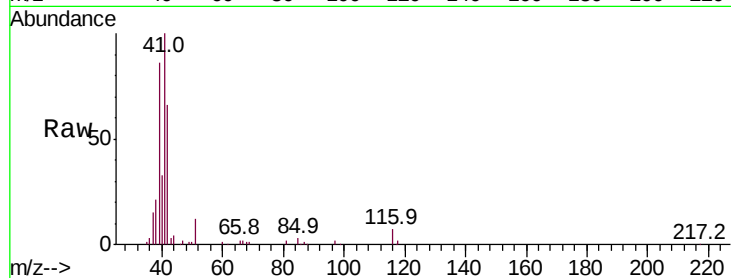
42 67.7 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 2.011 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.01 min

Lab File: VL033257.D

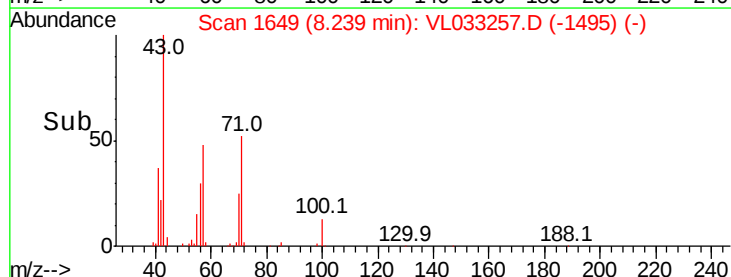
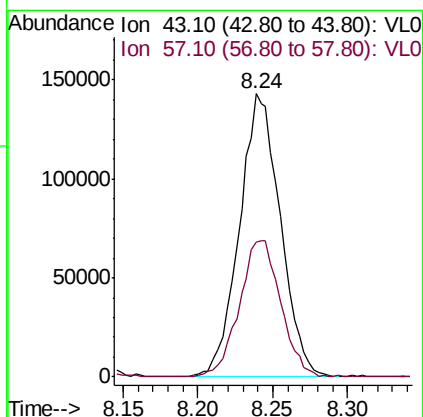
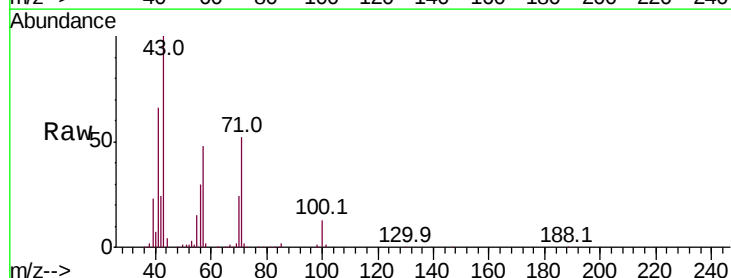
Acq: 8 Mar 2019 13:27

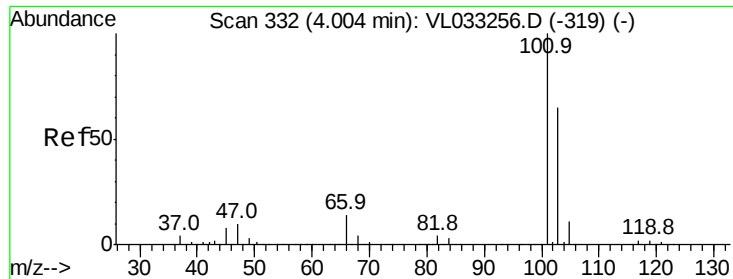
Tgt Ion: 43 Resp: 271864

Ion Ratio Lower Upper

43 100

57 49.0 40.0 60.0





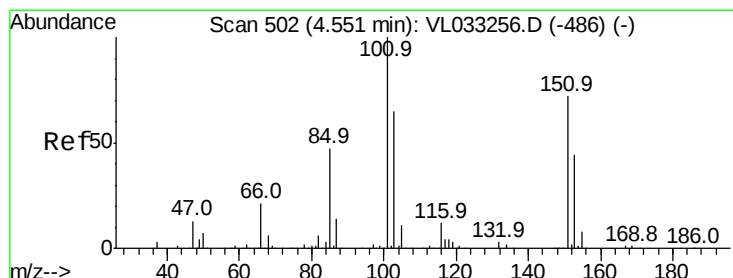
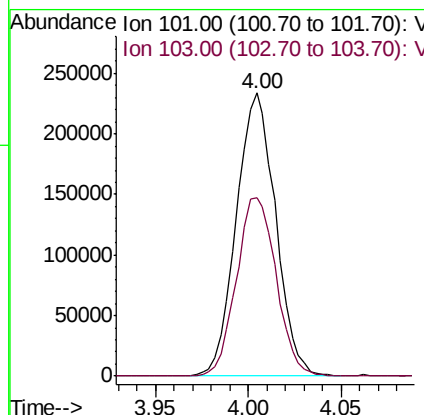
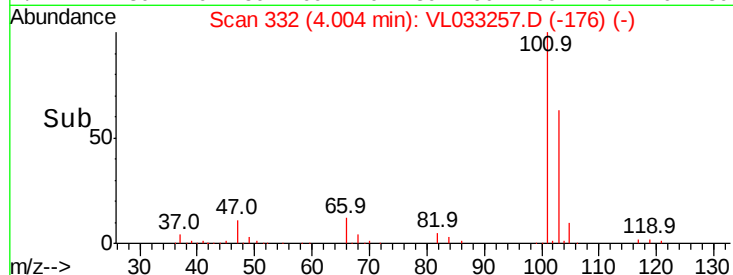
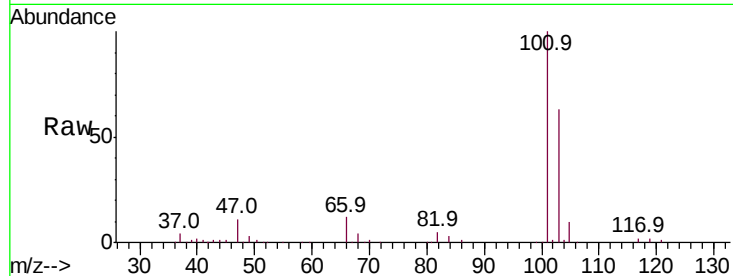
#11
 Trichlorofluoromethane
 Concen: 2.130 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Tot Ion:101 Resp: 344076
 Ion Ratio Lower Upper
 101 100
 103 63.0 51.9 77.9

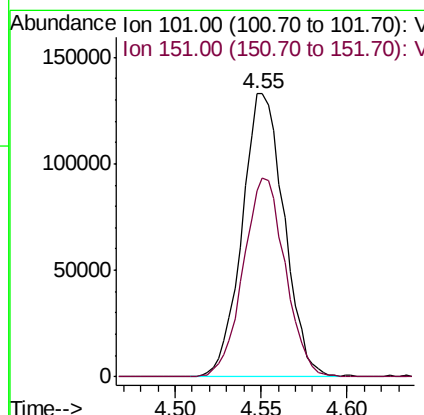
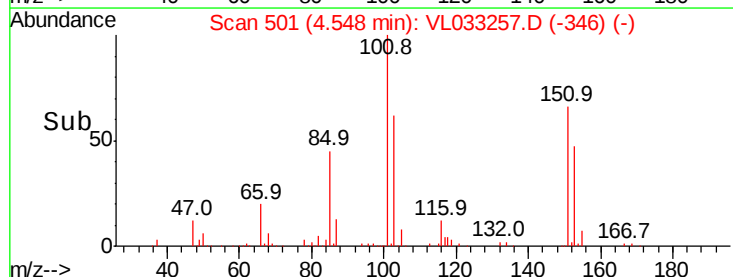
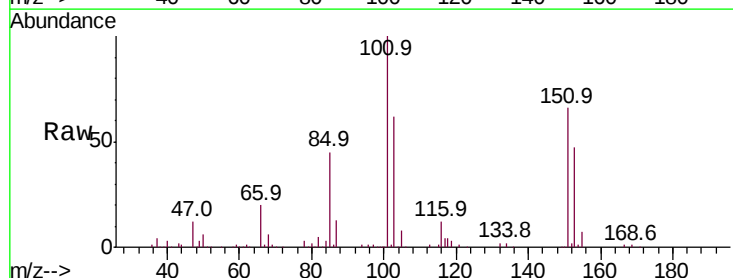
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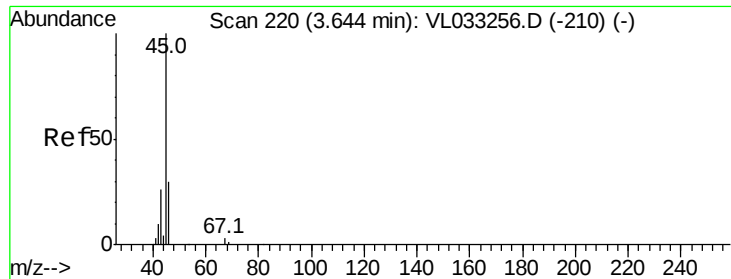
MMDadoda
 3/11/2019 10:10:08 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.151 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Tgt Ion:101 Resp: 225337
 Ion Ratio Lower Upper
 101 100
 151 70.1 57.2 85.8





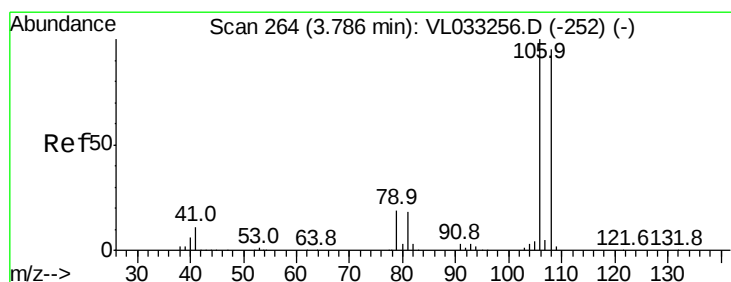
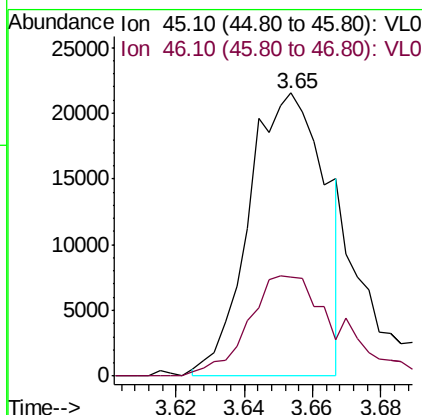
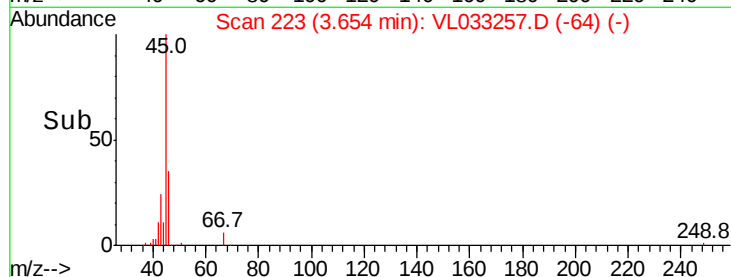
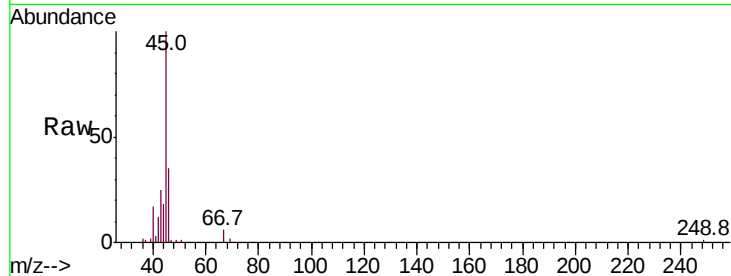
#13
Ethanol
Concen: 2.247 ppbv m
RT: 3.65 min Scan# 223
Delta R.T. 0.01 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 33369
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.7#

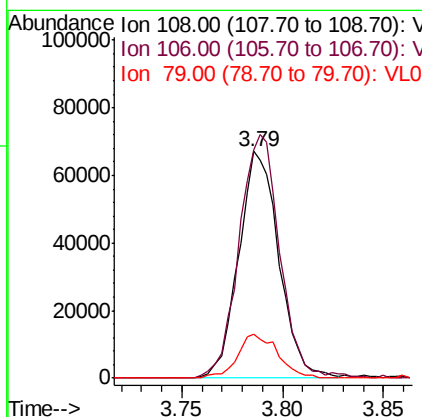
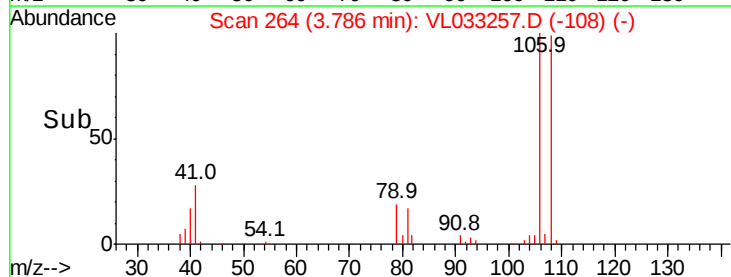
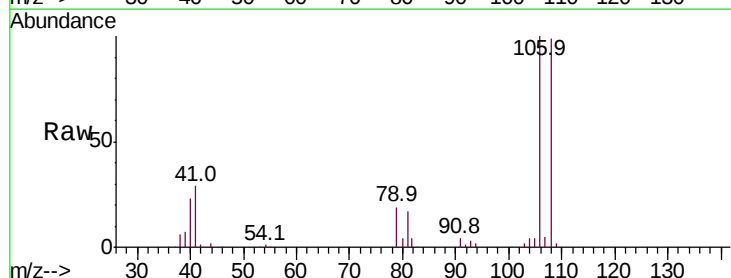
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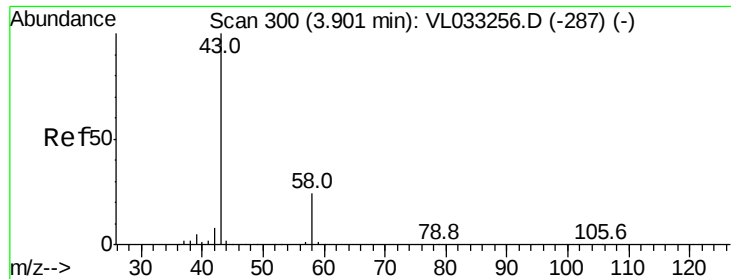
MMDadoda
3/11/2019 10:10:08 AM



#14
Bromoethene
Concen: 2.132 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Tgt Ion: 108 Resp: 94067
Ion Ratio Lower Upper
108 100
106 109.2 86.9 130.3
79 19.7 15.8 23.6





#15

Acetone

Concen: 2.059 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 258148

Ion Ratio Lower Upper

43 100

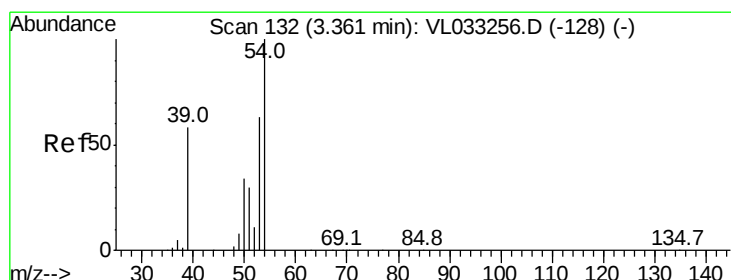
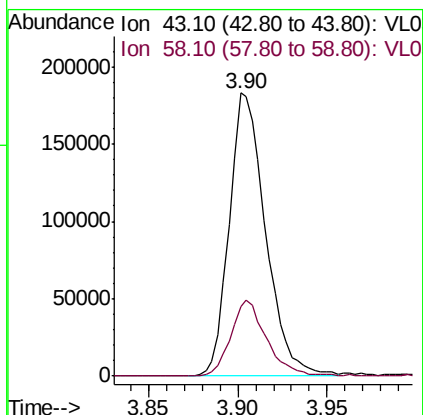
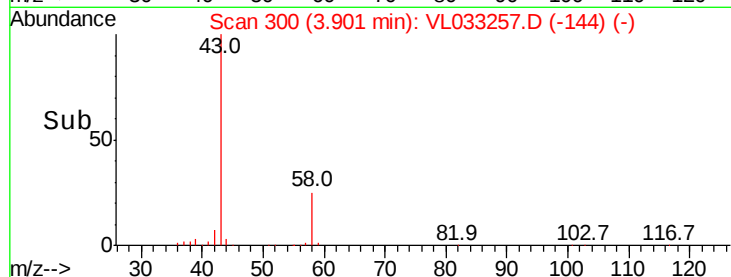
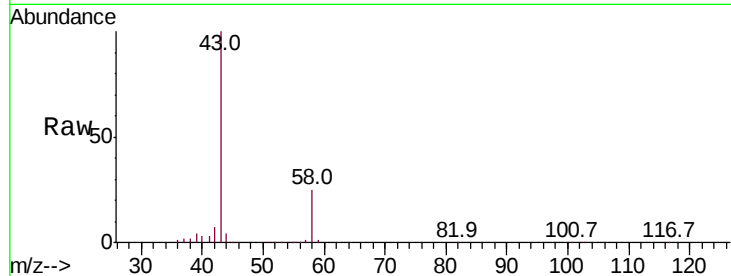
58 26.8 20.2 30.2

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#16

1,3-Butadiene

Concen: 2.009 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033257.D

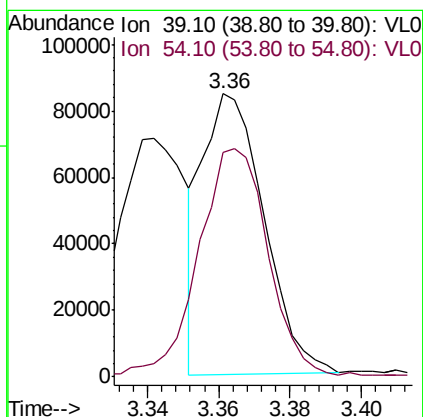
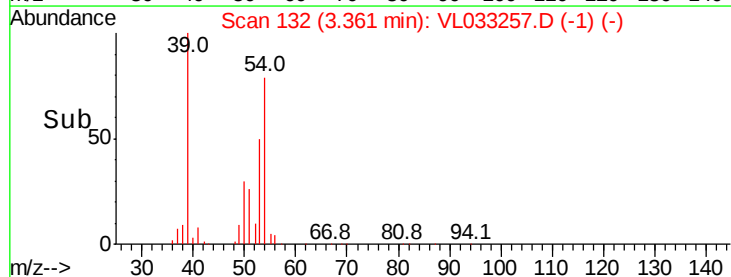
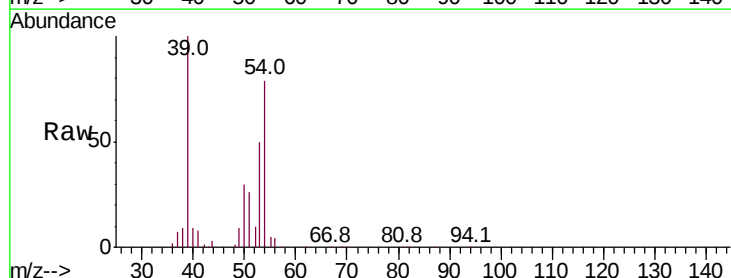
Acq: 8 Mar 2019 13:27

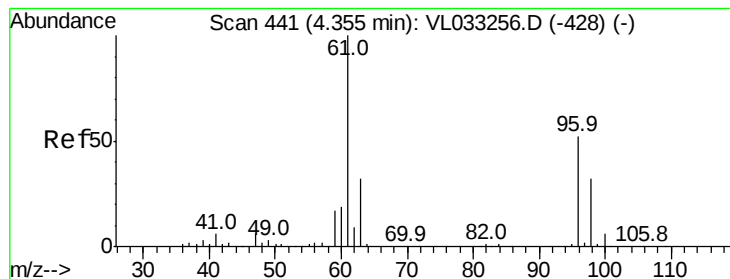
Tgt Ion: 39 Resp: 100538

Ion Ratio Lower Upper

39 100

54 93.8 68.6 103.0





#17

tert-Butyl alcohol

Concen: 1.942 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 59 Resp: 39677

Ion Ratio Lower Upper

59 100

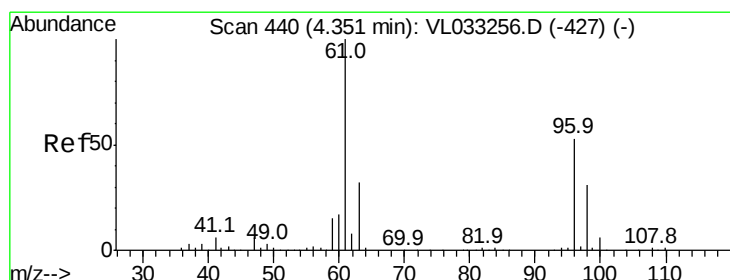
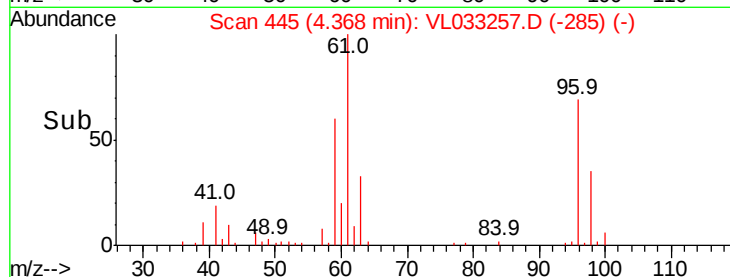
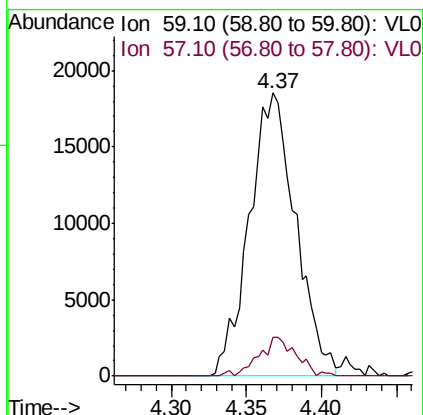
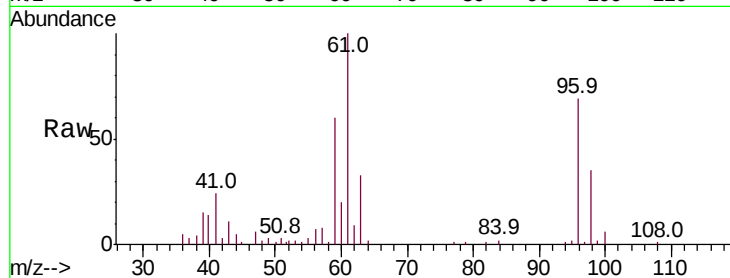
57 11.2 7.2 10.8#

Manual Integrations

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3/11/2019 10:10:08 AM



#18

1,1-Dichloroethene

Concen: 2.201 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

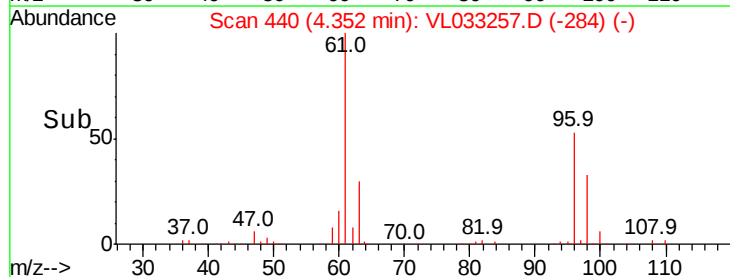
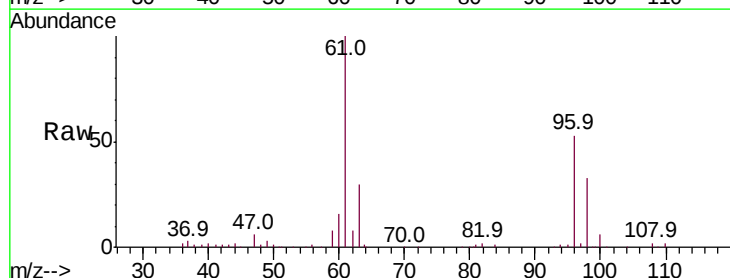
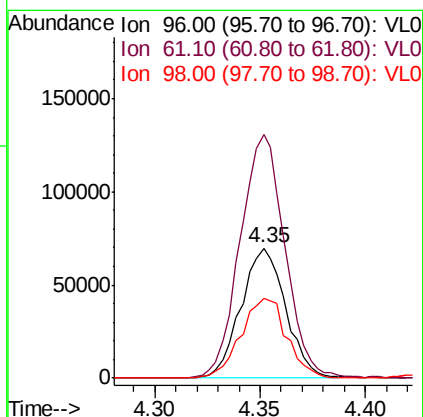
Tgt Ion: 96 Resp: 102635

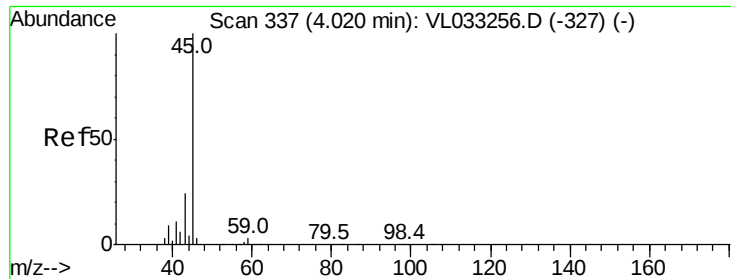
Ion Ratio Lower Upper

96 100

61 187.0 150.6 226.0

98 62.0 47.0 70.4





#19

Isopropyl Alcohol

Concen: 1.862 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 138738

Ion Ratio Lower Upper

45 100

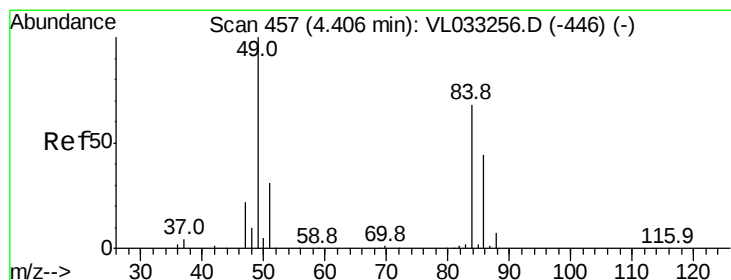
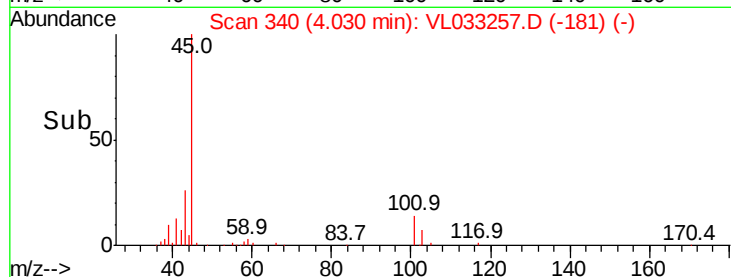
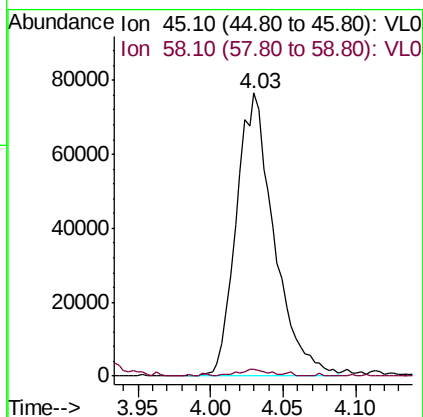
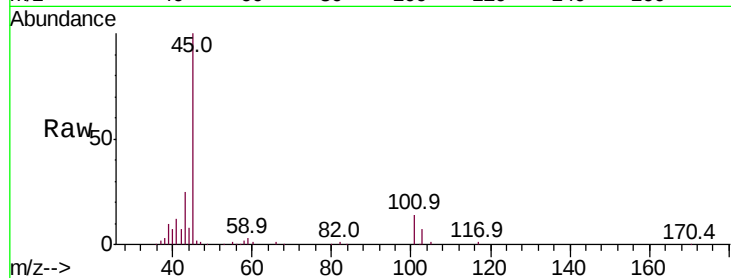
58 2.5 1.5 2.3#

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#20

Methylene Chloride

Concen: 2.241 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion: 84 Resp: 106479

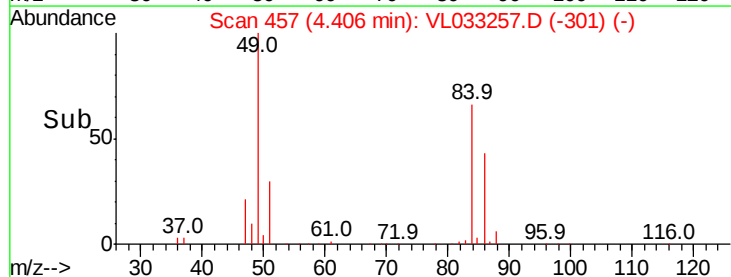
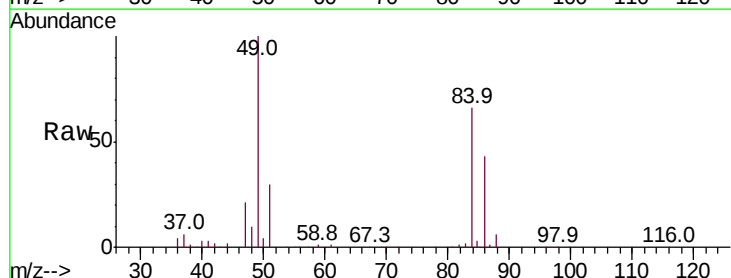
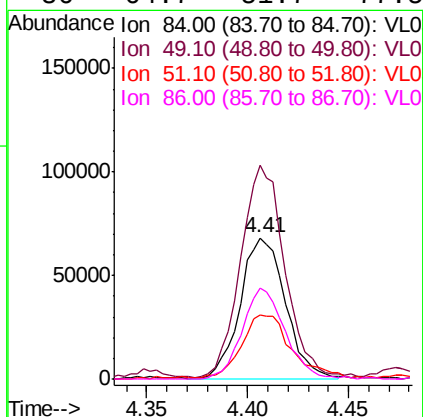
Ion Ratio Lower Upper

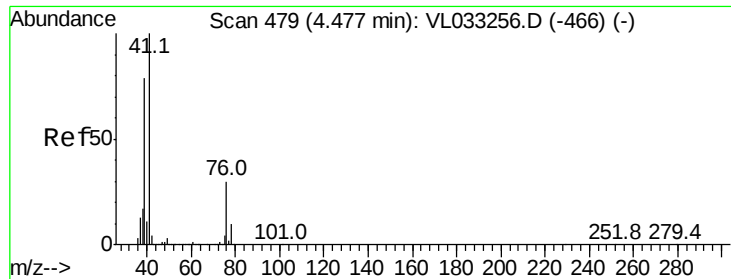
84 100

49 149.8 117.8 176.6

51 44.8 36.9 55.3

86 64.7 51.7 77.5





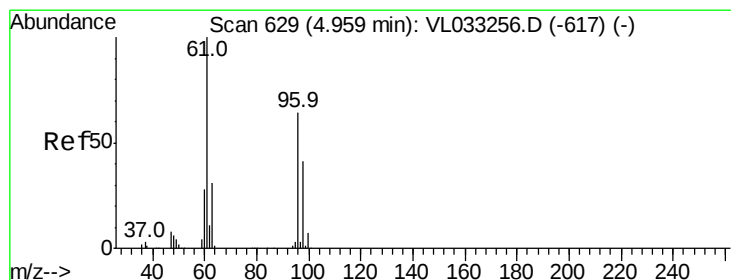
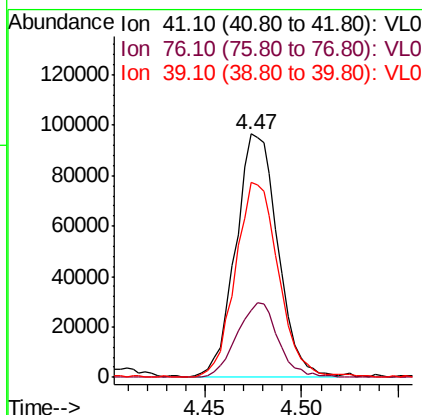
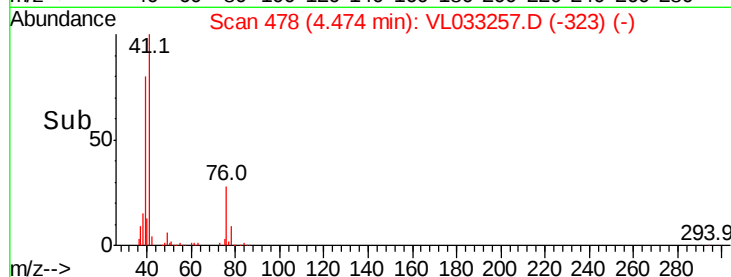
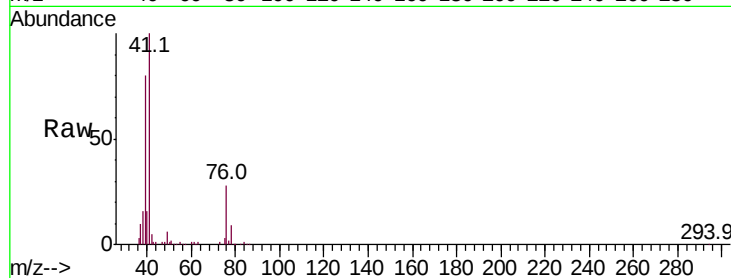
#21
Allvl Chloride
Concen: 2.096 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.1	24.5	36.7
39	82.5	65.3	97.9

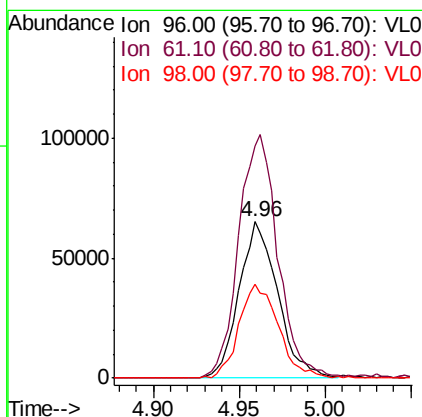
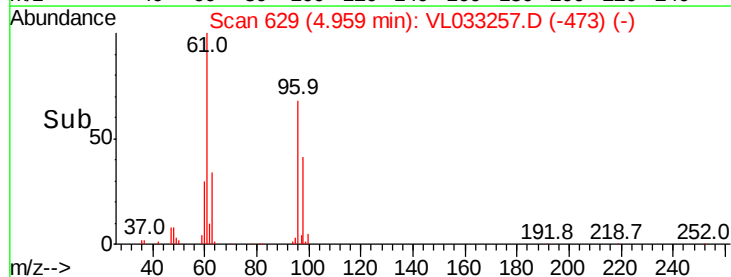
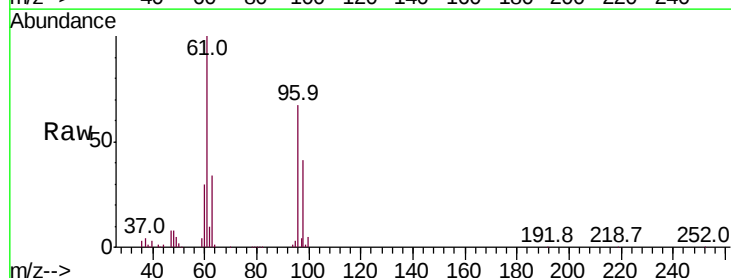
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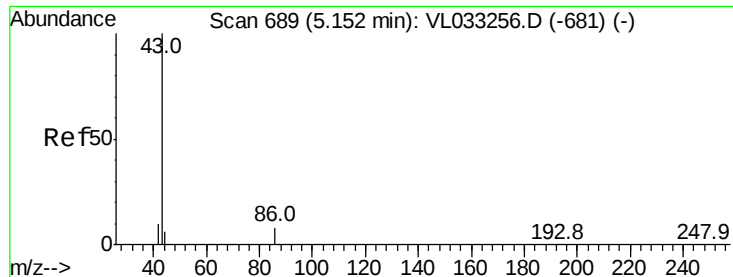
MMDadoda
3/11/2019 10:10:08 AM



#22
trans-1,2-Dichloroethene
Concen: 2.143 ppbv
RT: 4.96 min Scan# 629
Delta R.T. 0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.3	125.7	188.5
98	60.5	52.1	78.1





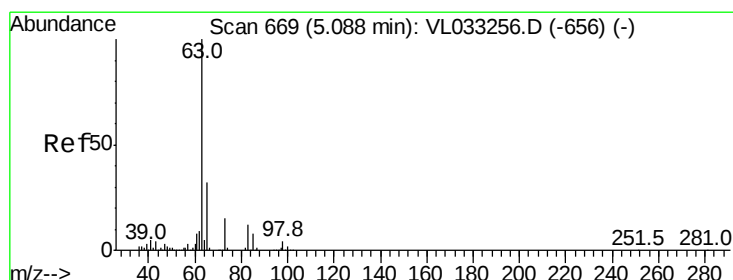
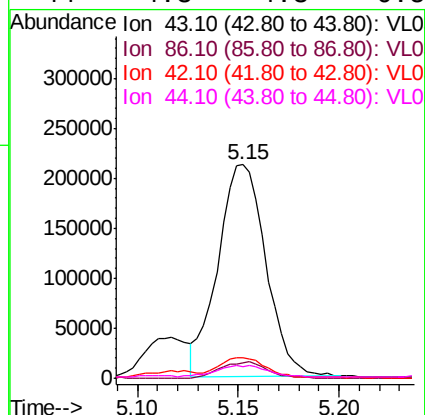
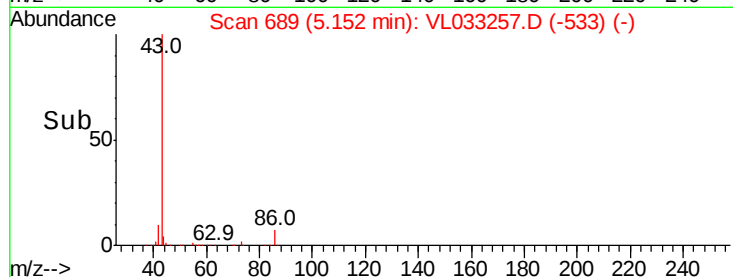
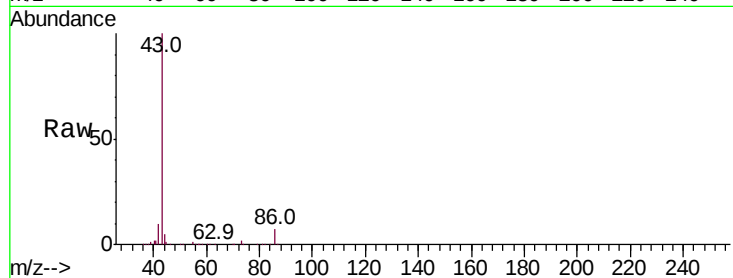
#23
 Vinyl Acetate
 Concen: 1.908 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		352813		
86	7.3	5.6	8.4		
42	9.5	8.1	12.1		
44	4.3	4.3	6.5		

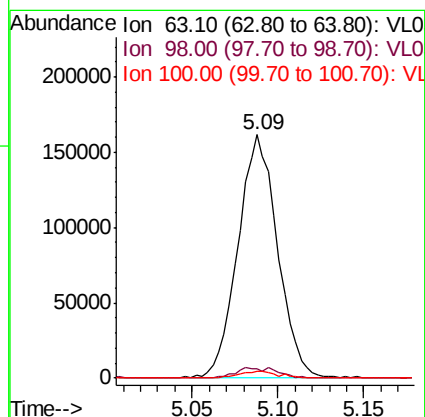
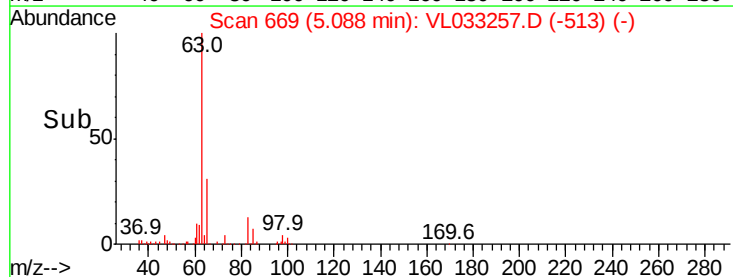
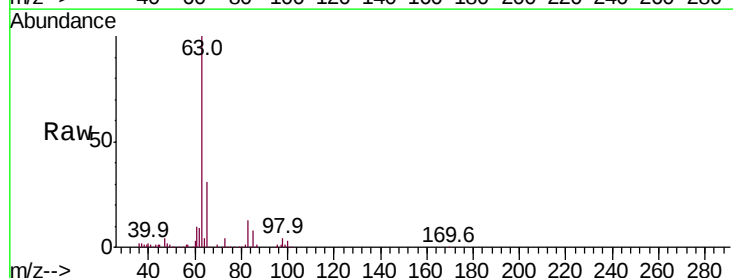
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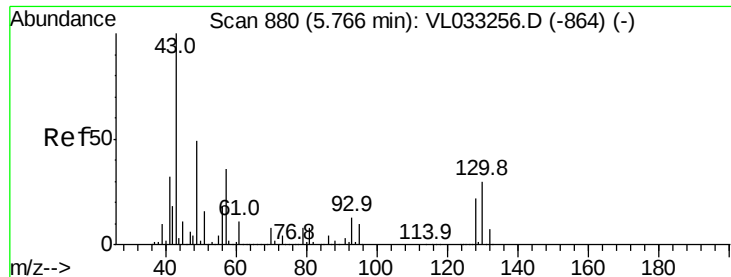
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#24
 1,1-Dichloroethane
 Concen: 1.940 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. 0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		255789		
98	3.5	2.1	6.2		
100	3.0	1.3	3.8		





#25

Ethyl Acetate

Concen: 2.040 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 468900

Ion Ratio Lower Upper

43 100

45 9.7 7.8 11.8

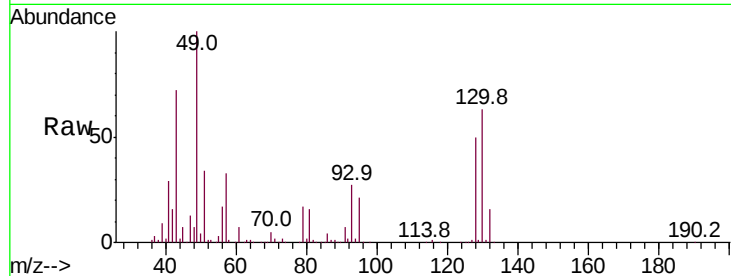
61 8.3 7.4 11.0

70 6.5 5.4 8.2

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3/11/2019 10:10:08 AM

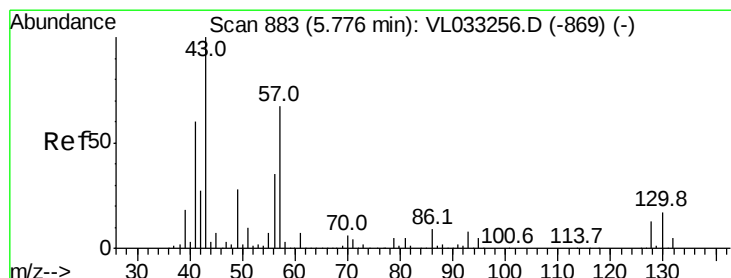
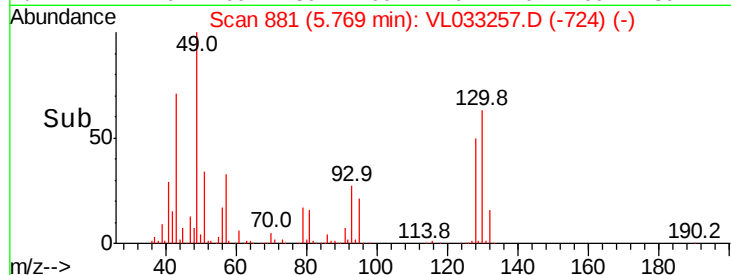
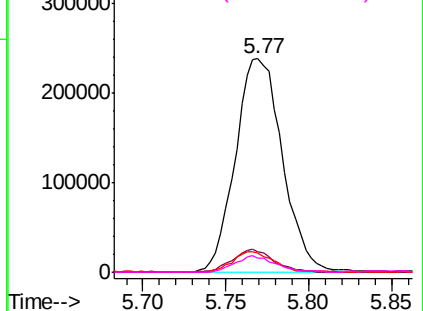


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 2.069 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion: 57 Resp: 222211

Ion Ratio Lower Upper

57 100

41 94.1 72.2 108.4

43 213.2 179.0 268.4

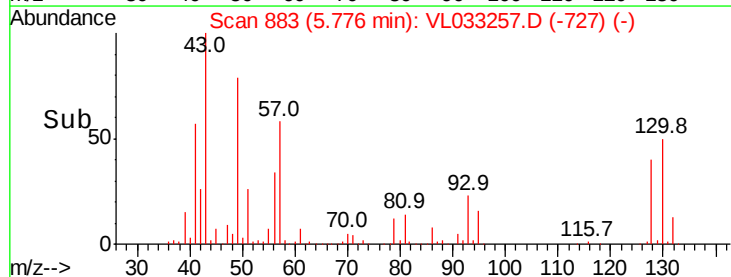
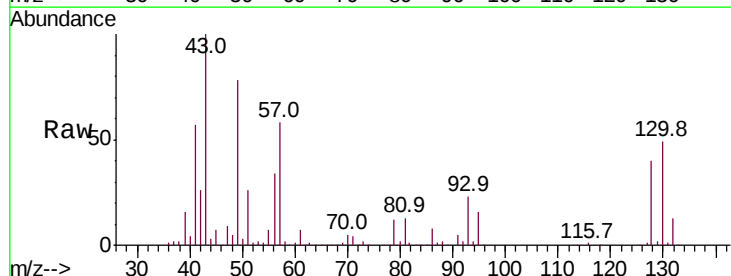
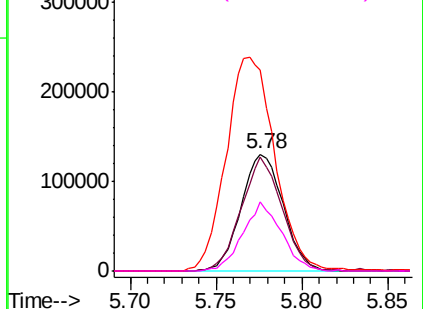
56 54.0 41.8 62.8

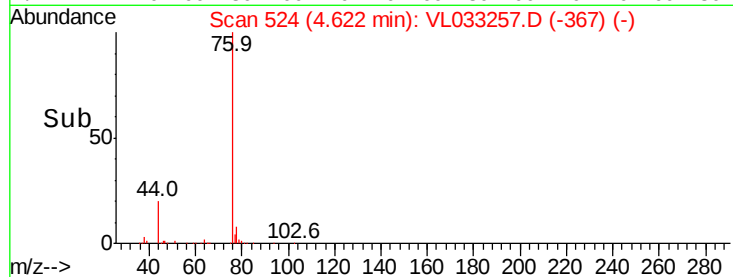
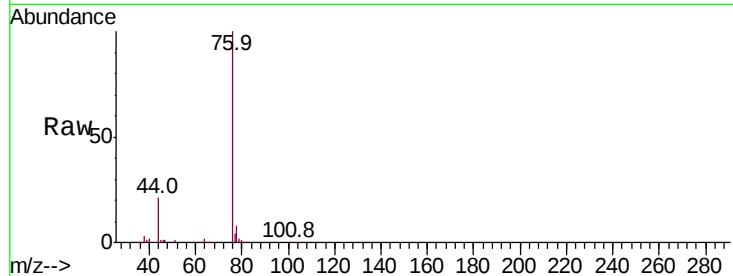
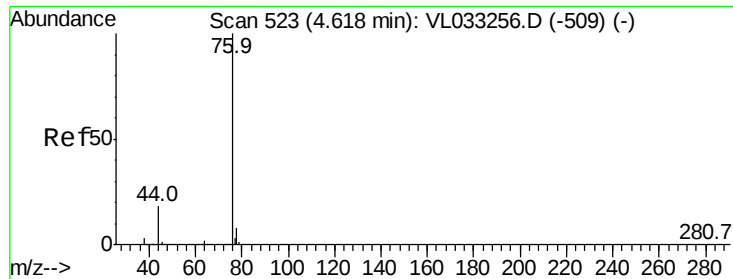
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 2.174 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033257.D

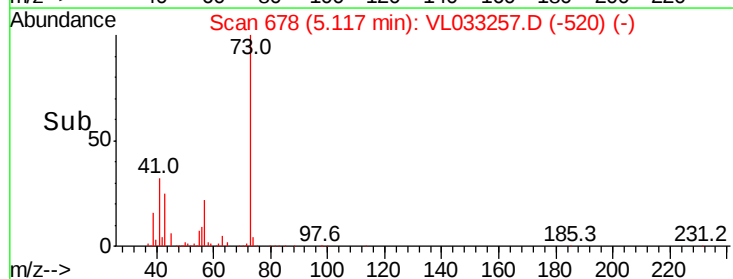
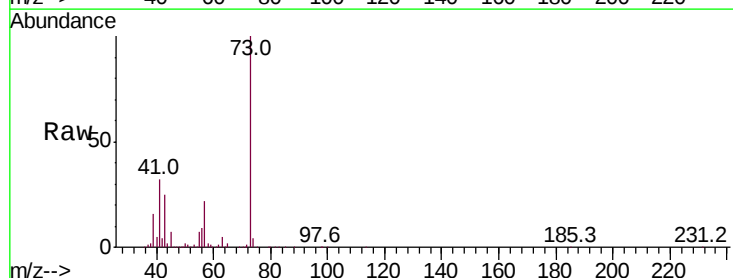
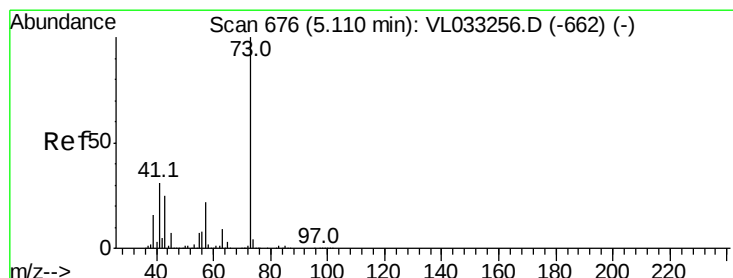
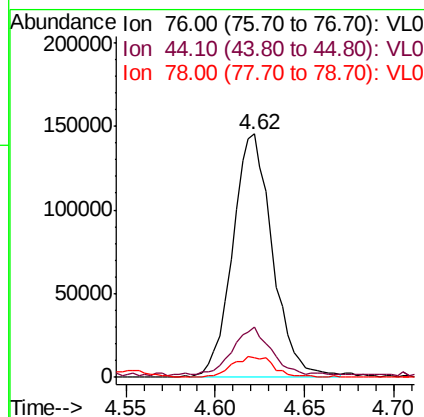
Acq: 8 Mar 2019 13:27

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.9	14.8	22.2
78	9.5	7.2	10.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 1.922 ppbv

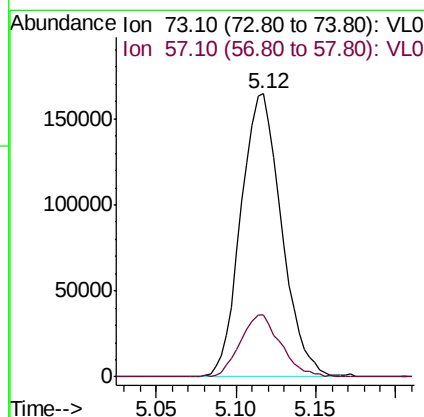
RT: 5.12 min Scan# 678

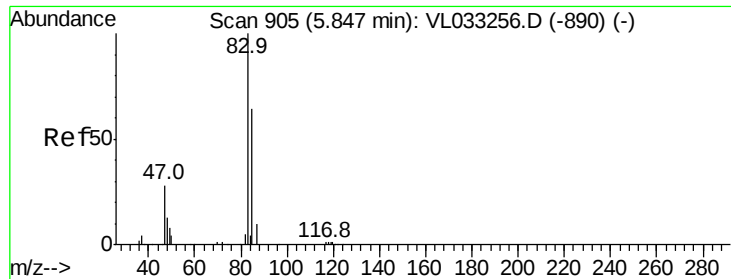
Delta R.T. 0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5





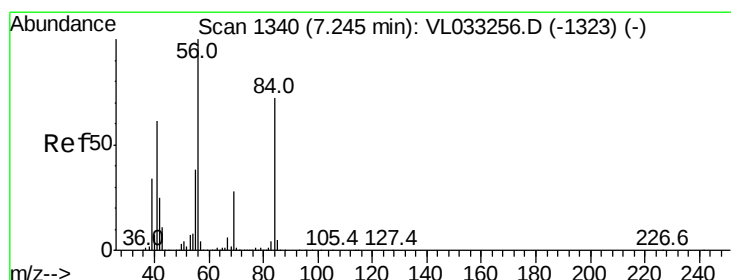
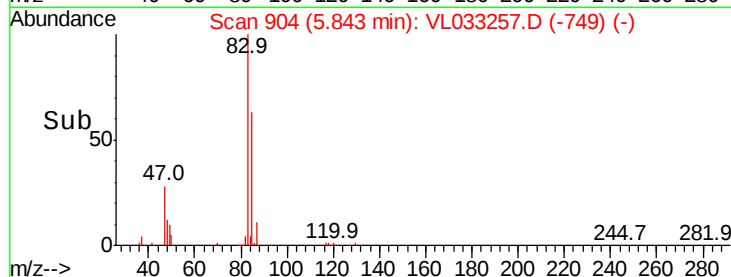
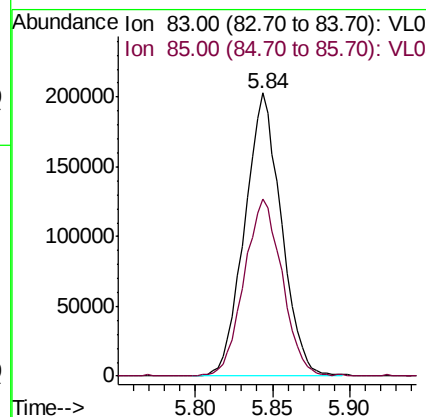
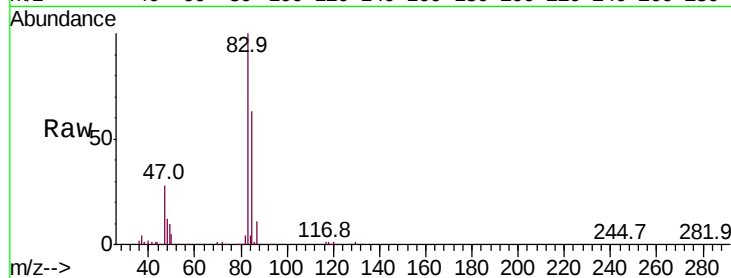
#29
Chloroform
Concen: 2.000 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 83 Resp: 334144
Ion Ratio Lower Upper
83 100
85 62.5 51.0 76.6

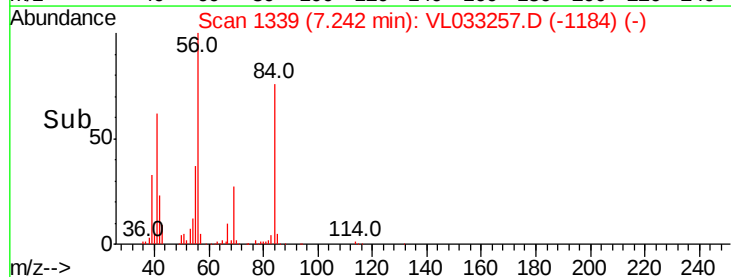
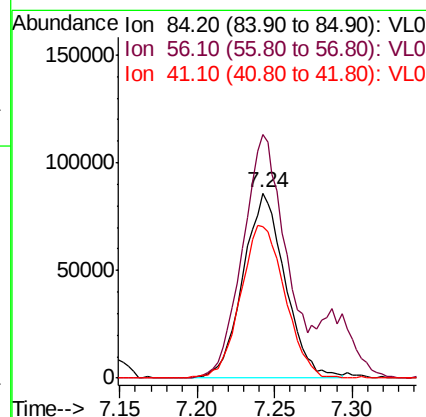
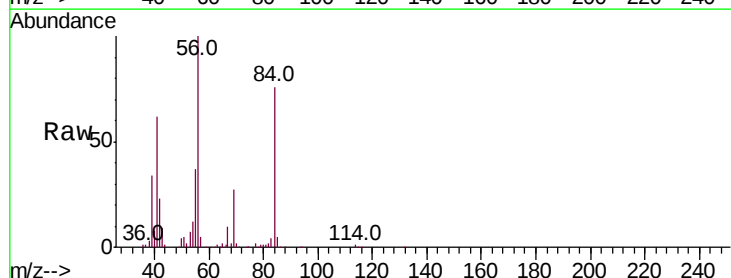
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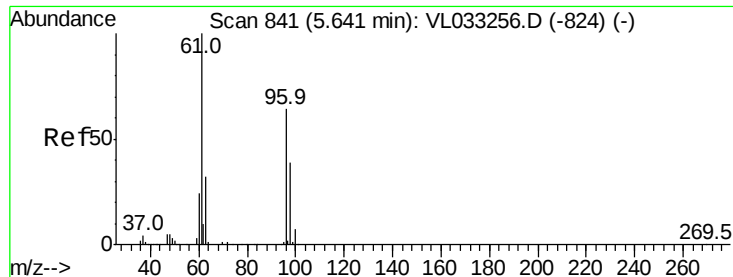
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#30
Cyclohexane
Concen: 2.024 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Tgt Ion: 84 Resp: 162794
Ion Ratio Lower Upper
84 100
56 164.1 113.4 170.2
41 87.0 70.2 105.4





#31

cis-1,2-Dichloroethene

Concen: 1.987 ppbv

RT: 5.64 min Scan# 841

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

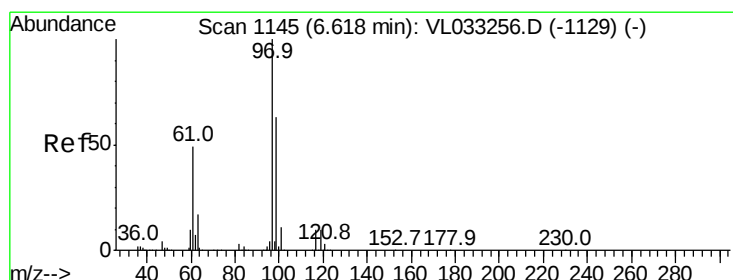
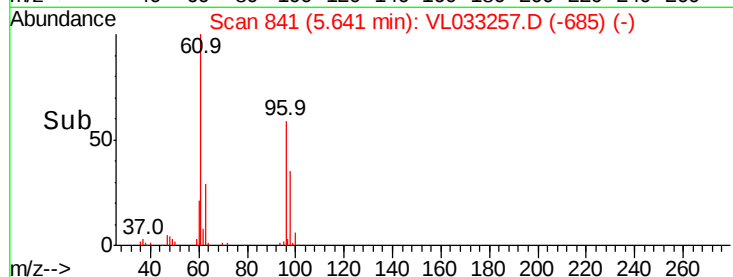
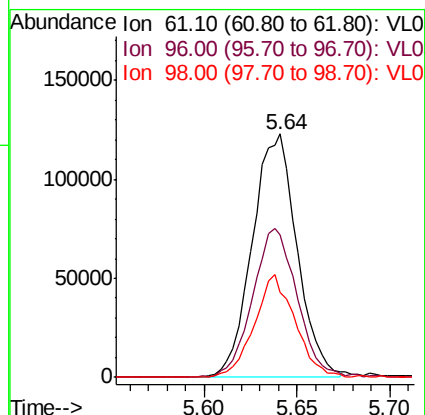
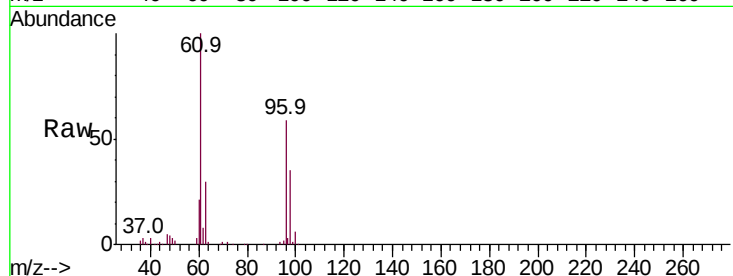
ClientSampleId :

VSTDIC002

Tot Ion:	61	Resp:	206152
Ion Ratio	Lower	Upper	
61	100		
96	58.5	51.2	76.8
98	34.8	30.8	46.2

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#32

1,1,1-Trichloroethane

Concen: 1.888 ppbv

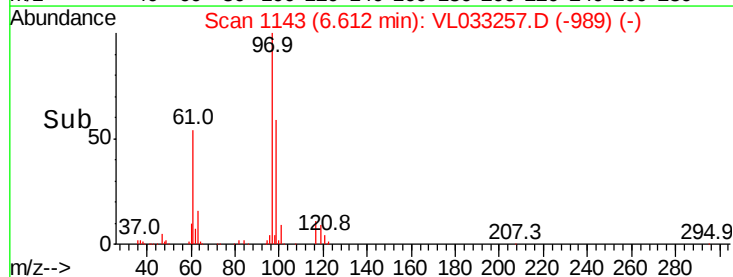
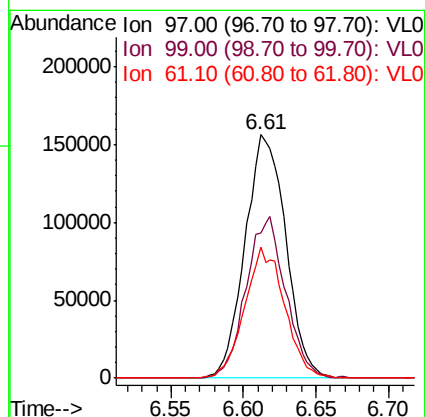
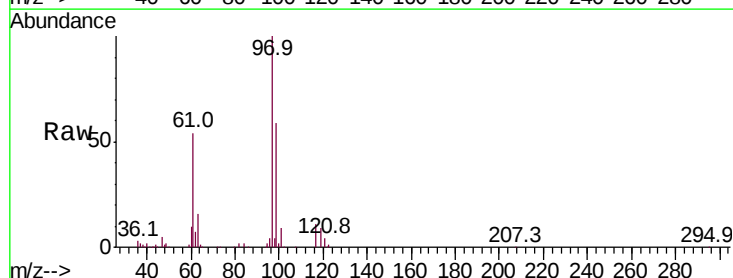
RT: 6.61 min Scan# 1143

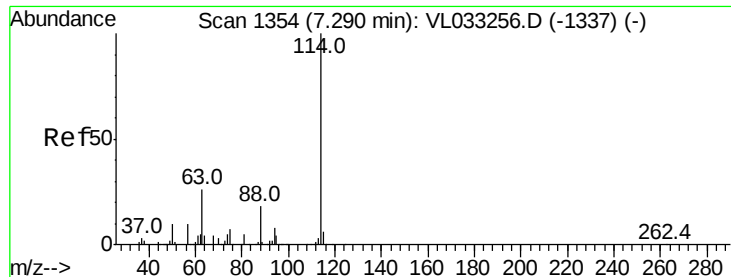
Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	97	Resp:	306036
Ion Ratio	Lower	Upper	
97	100		
99	64.6	51.6	77.4
61	52.5	40.8	61.2





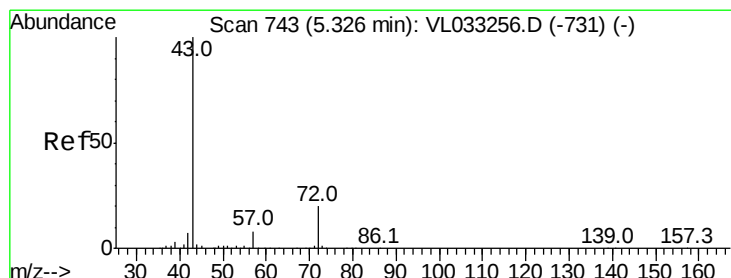
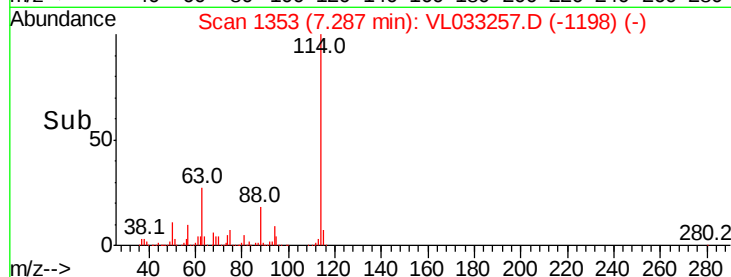
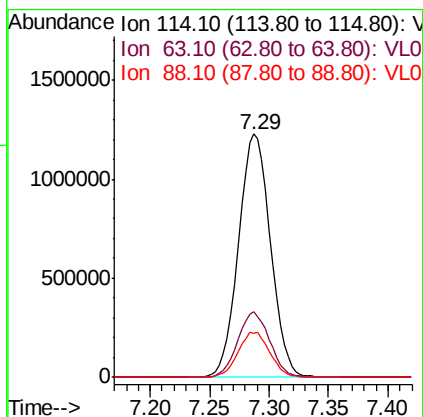
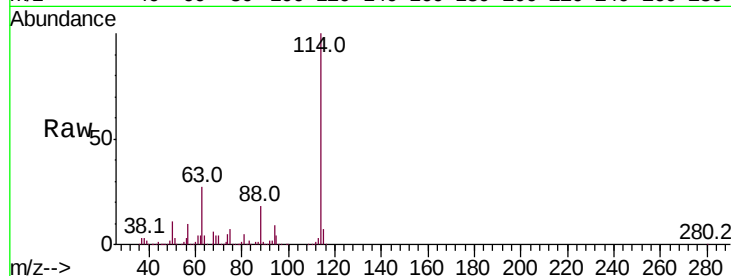
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.0	22.2	33.2
88	18.5	14.6	22.0

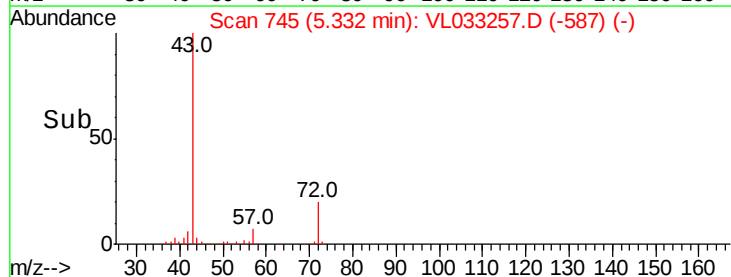
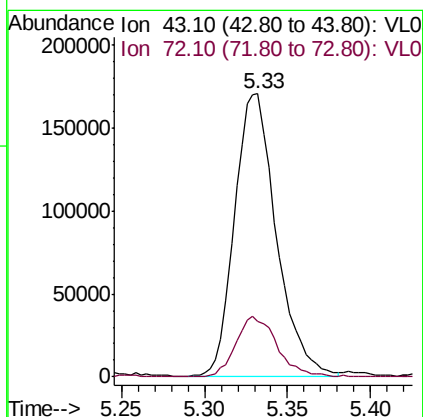
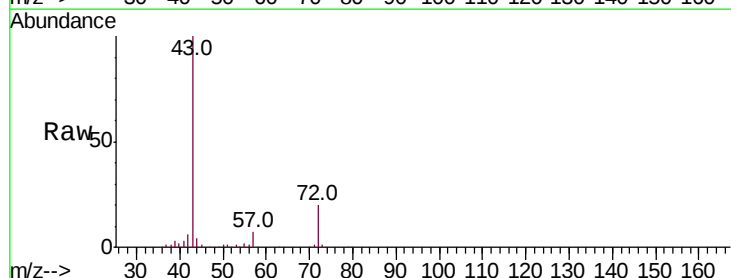
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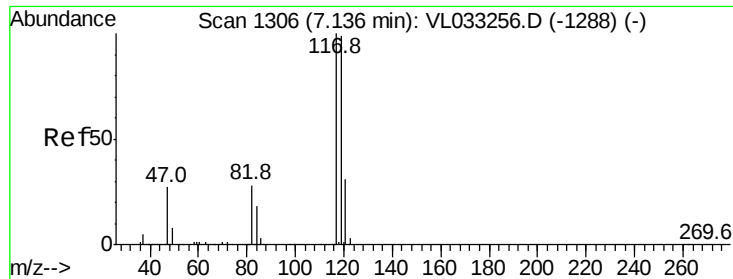
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#34
 2-Butanone
 Concen: 1.884 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.4	16.9	25.3





#35

Carbon Tetrachloride

Concen: 1.879 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

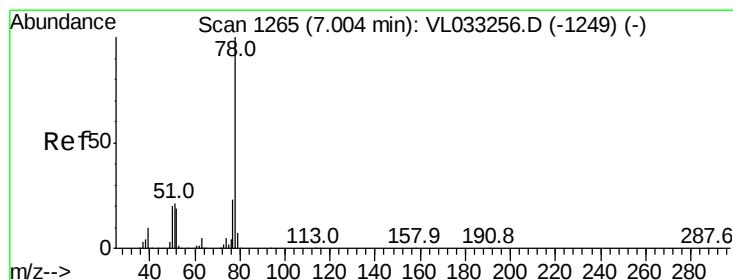
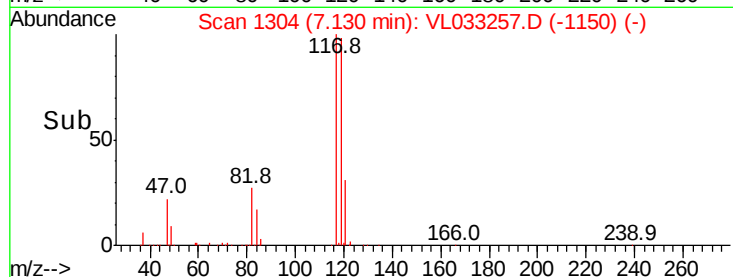
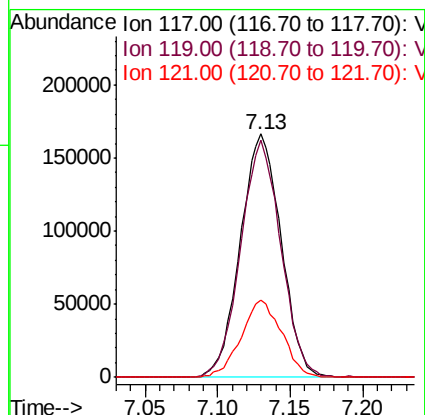
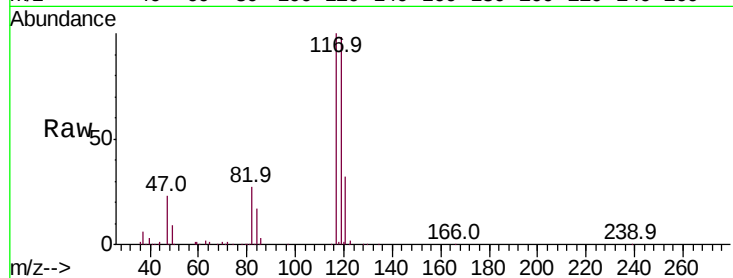
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	325328
Ion Ratio	Lower	Upper	
117	100		
119	97.6	79.0	118.6
121	31.7	24.7	37.1

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#36

Benzene

Concen: 1.925 ppbv

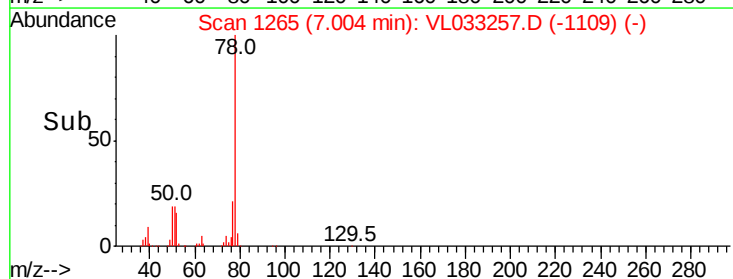
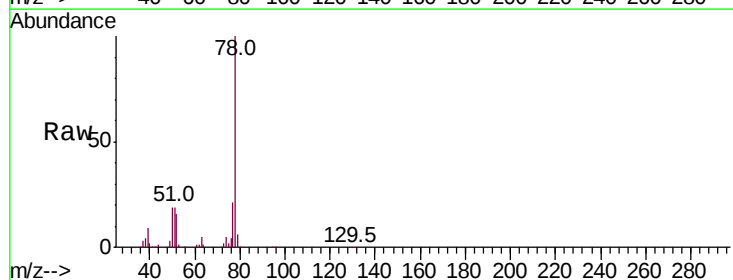
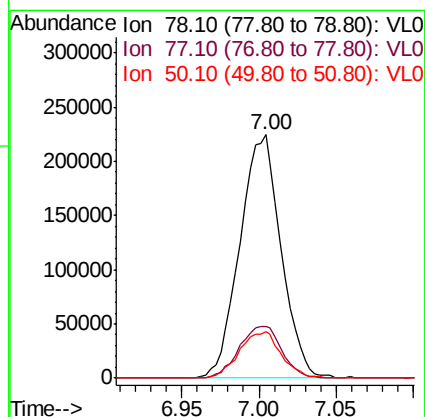
RT: 7.00 min Scan# 1265

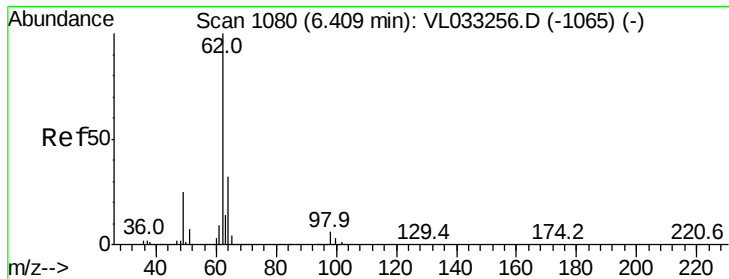
Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	78	Resp:	413413
Ion Ratio	Lower	Upper	
78	100		
77	21.1	18.2	27.2
50	18.8	16.2	24.2





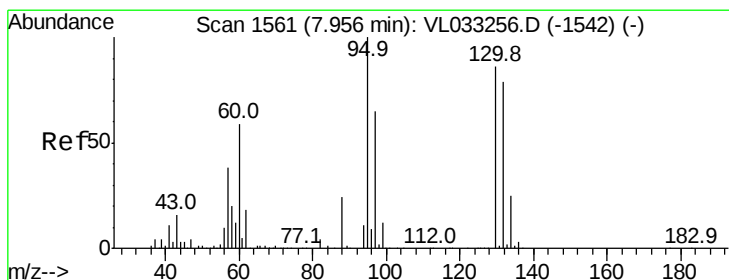
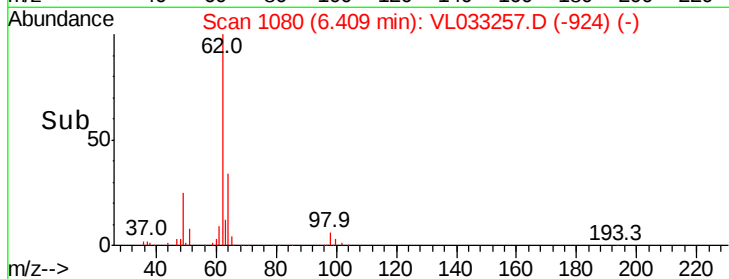
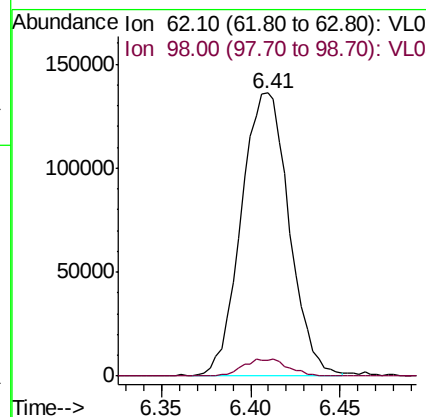
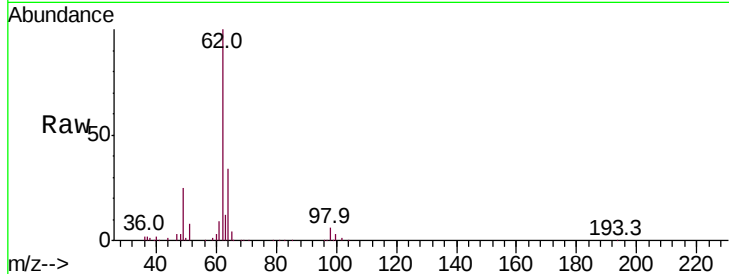
#37
 1,2-Dichloroethane
 Concen: 1.910 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	255306		
98	5.7	4.5	6.7	

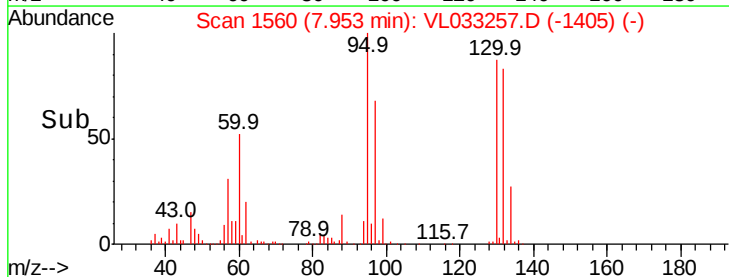
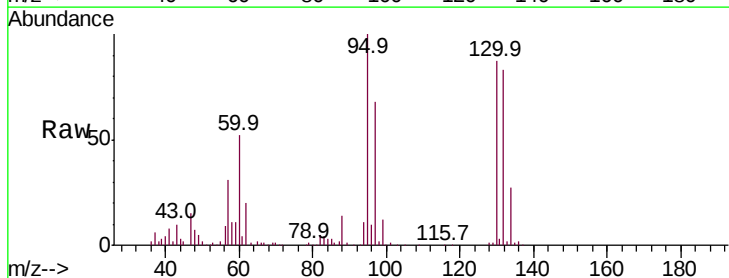
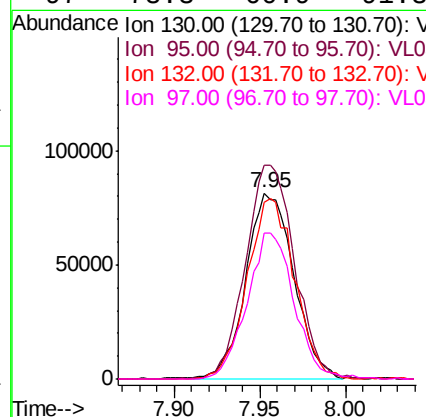
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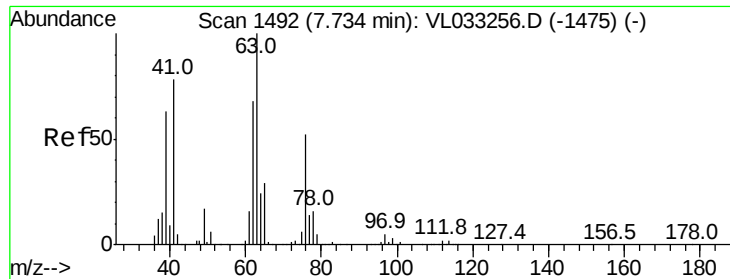
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#38
 Trichloroethene
 Concen: 1.948 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	158043		
95	114.5	93.4	140.0	
132	95.1	74.0	111.0	
97	78.3	60.9	91.3	





#39

1,2-Dichloropropane

Concen: 1.885 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

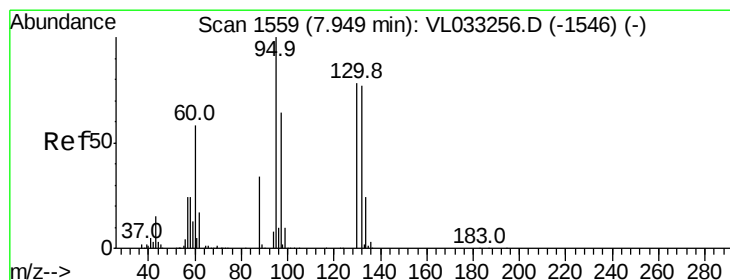
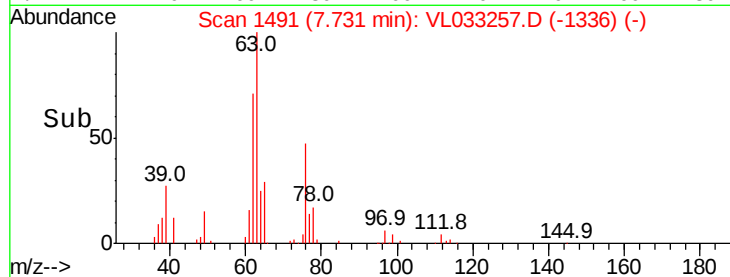
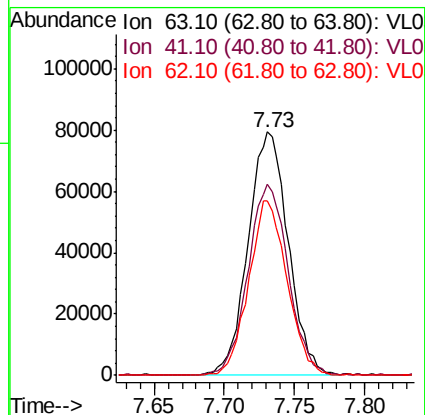
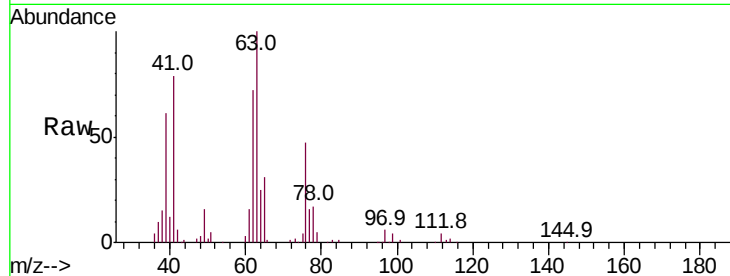
ClientSampleID :

VSTDIC002

Tot Ion:	63	Resp:	158036
Ion	Ratio	Lower	Upper
63	100		
41	78.6	62.6	94.0
62	71.9	54.6	81.8

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#40

1,4-Dioxane

Concen: 1.893 ppbv m

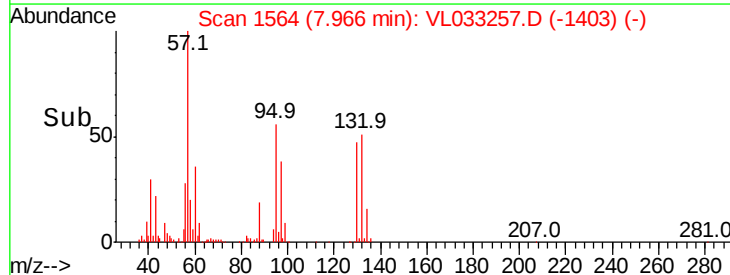
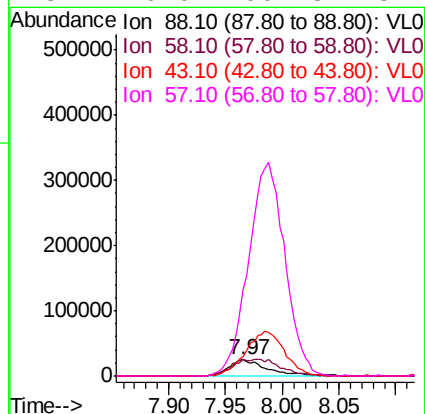
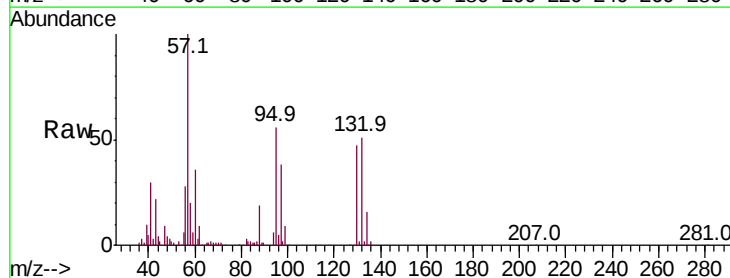
RT: 7.97 min Scan# 1564

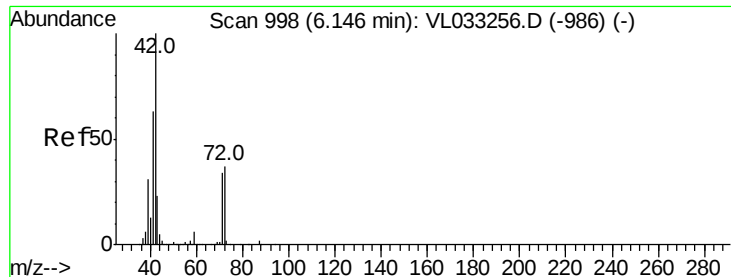
Delta R.T. 0.02 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	88	Resp:	58888
Ion	Ratio	Lower	Upper
88	100		
58	131.9	108.4	162.6
43	0.0	232.3	348.5#
57	0.0	1007.8	1511.8#





#41

Tetrahydrofuran

Concen: 1.864 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

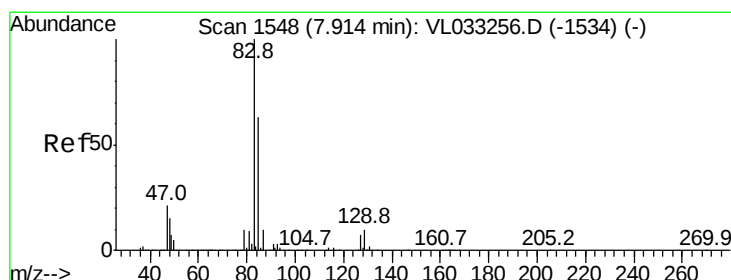
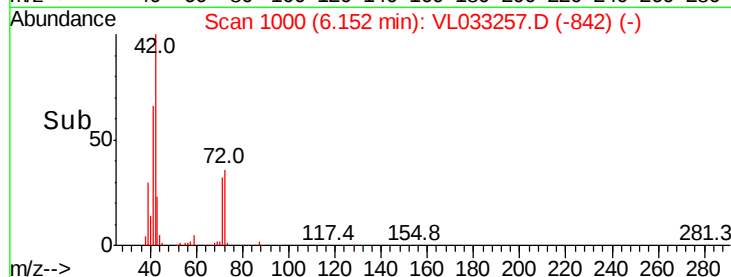
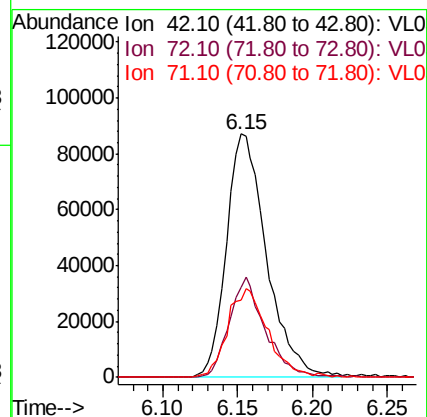
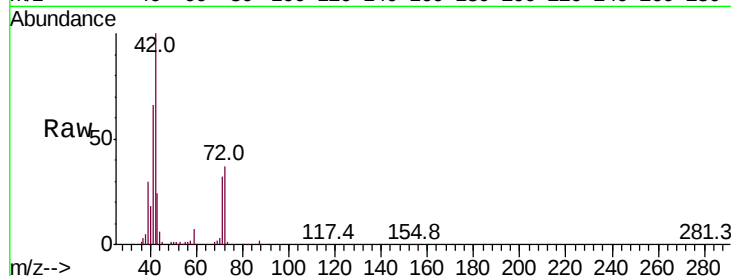
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	162398
Ion Ratio		Lower	Upper
42	100		
72	37.0	30.2	45.2
71	36.7	29.0	43.6

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#42

Bromodichloromethane

Concen: 1.874 ppbv

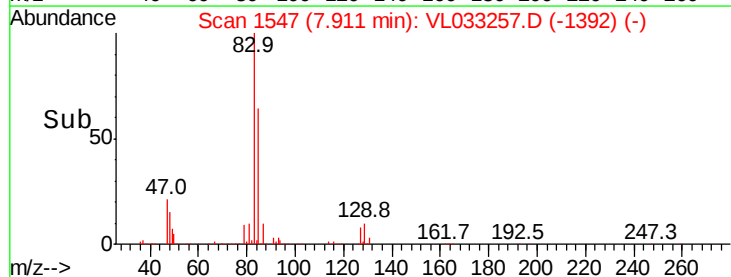
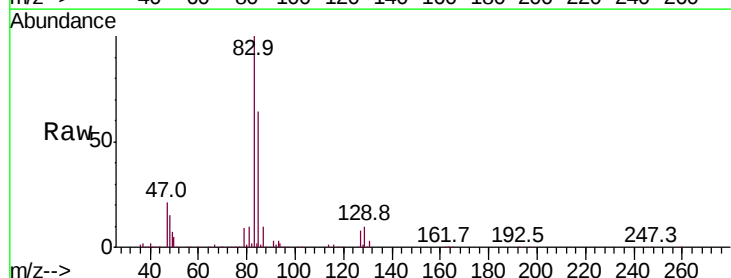
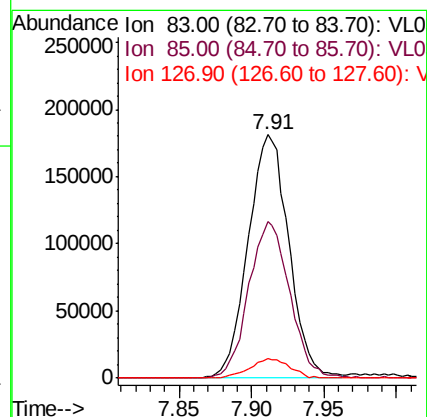
RT: 7.91 min Scan# 1547

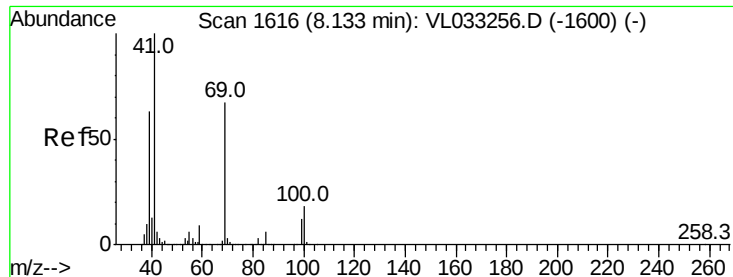
Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	83	Resp:	354249
Ion Ratio		Lower	Upper
83	100		
85	64.3	50.1	75.1
127	8.3	5.9	8.9





#43

Methyl Methacrylate

Concen: 1.830 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. 0.00 min

Lab File: VL033257.D

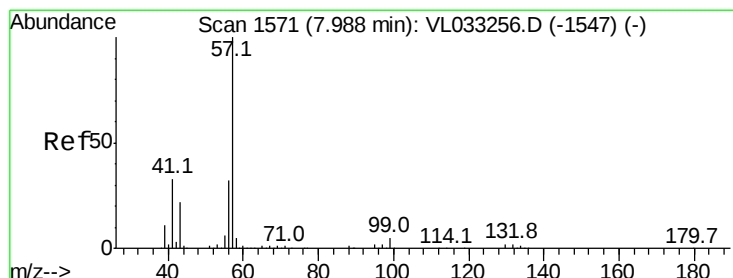
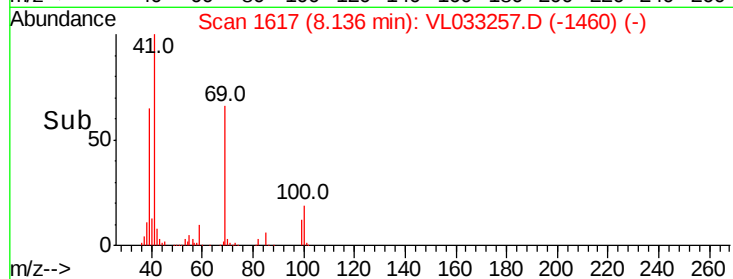
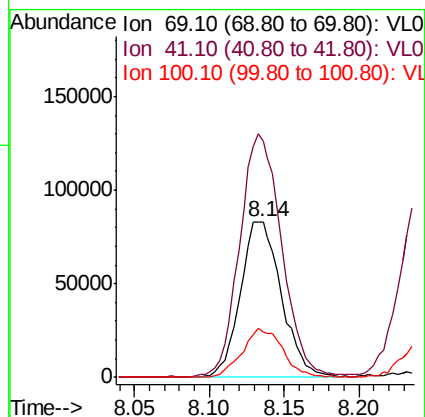
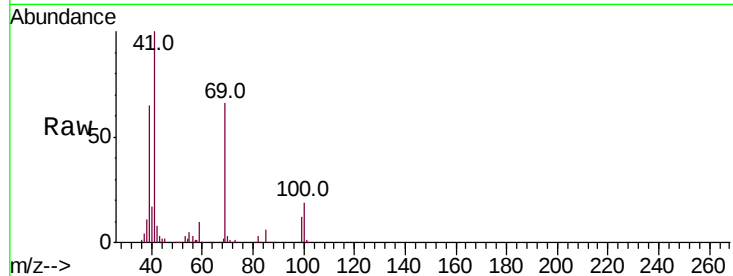
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	160.7	120.3	180.5
100	31.0	23.5	35.3

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#44

2,2,4-Trimethylpentane

Concen: 1.929 ppbv

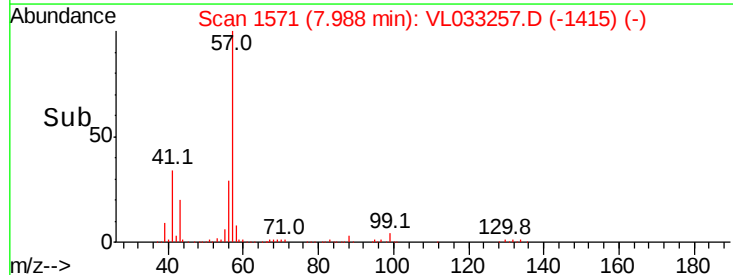
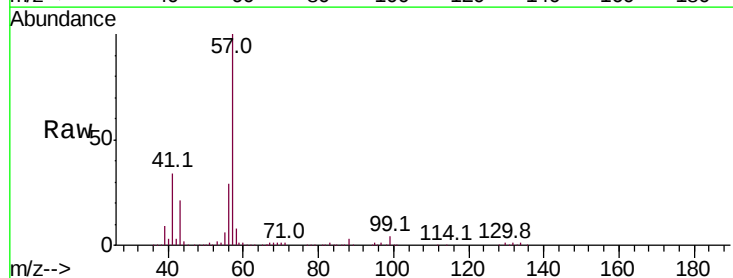
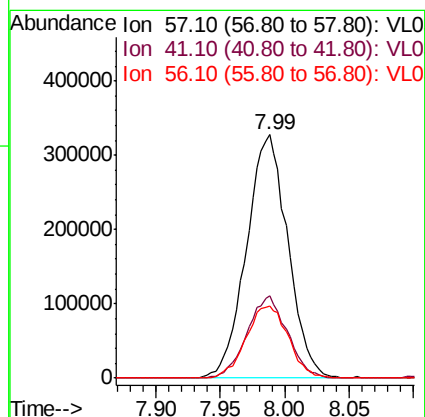
RT: 7.99 min Scan# 1571

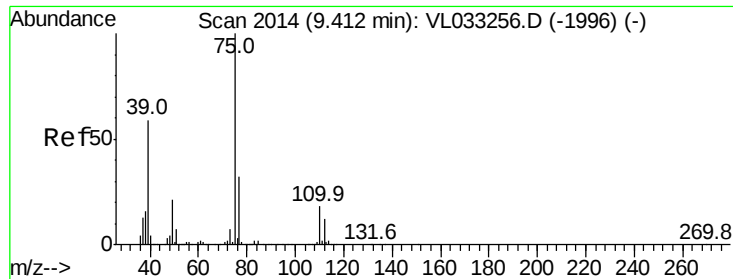
Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.0	26.4	39.6
56	30.3	25.1	37.7





#45

t-1,3-Dichloropropene

Concen: 1.828 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 192236

Ion Ratio Lower Upper

75 100

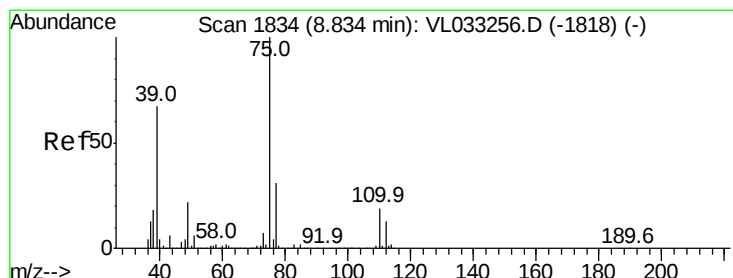
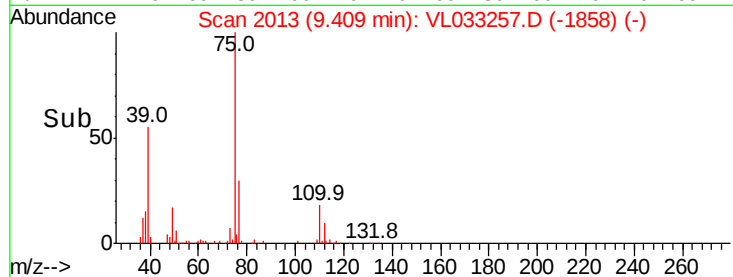
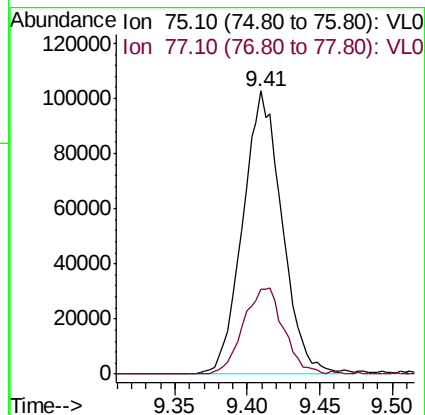
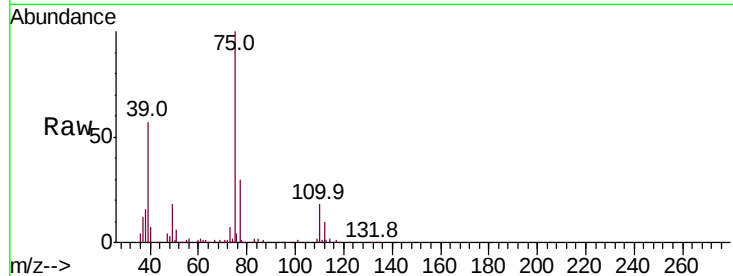
77 29.9 25.4 38.0

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#46

cis-1,3-Dichloropropene

Concen: 1.813 ppbv

RT: 8.83 min Scan# 1832

Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

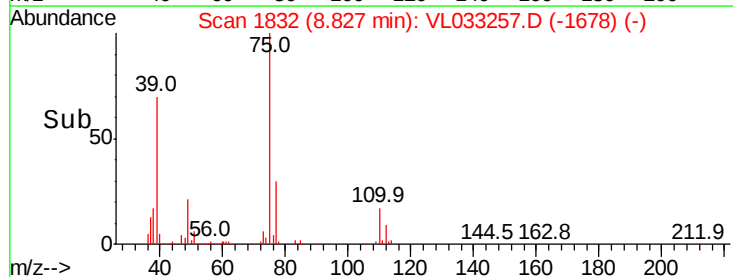
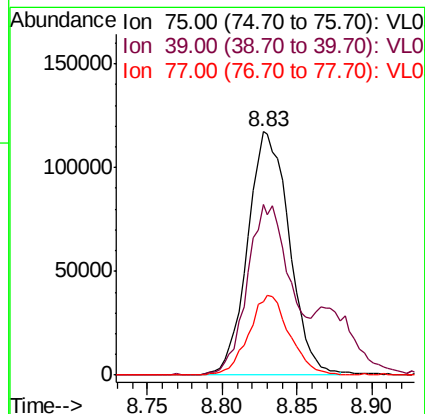
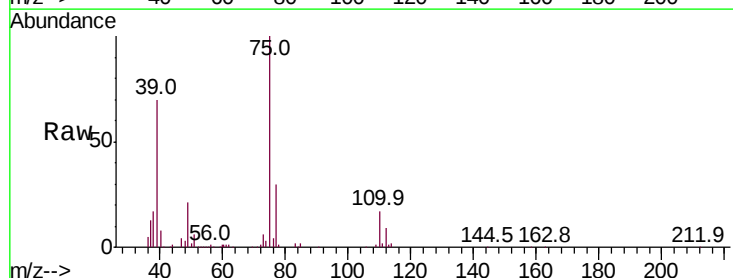
Tgt Ion: 75 Resp: 227349

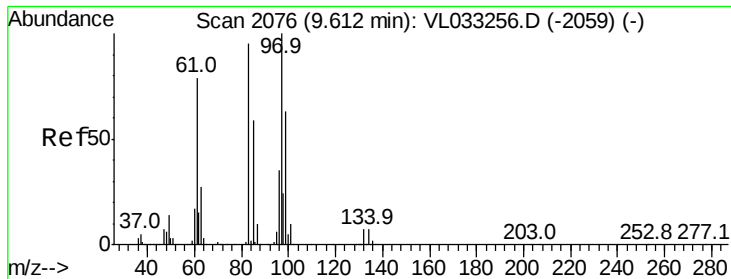
Ion Ratio Lower Upper

75 100

39 69.8 53.8 80.6

77 30.3 25.0 37.6





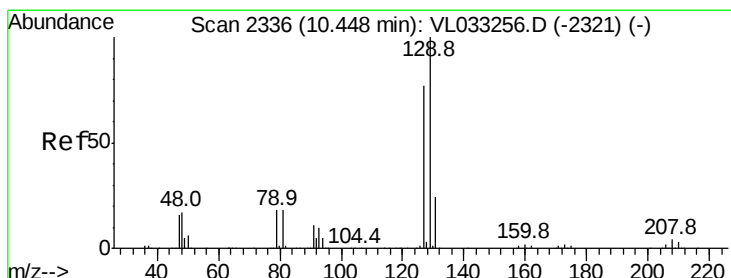
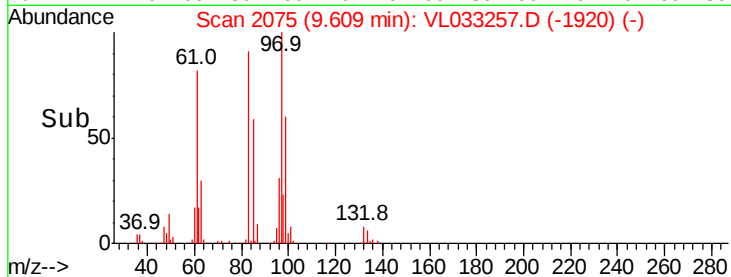
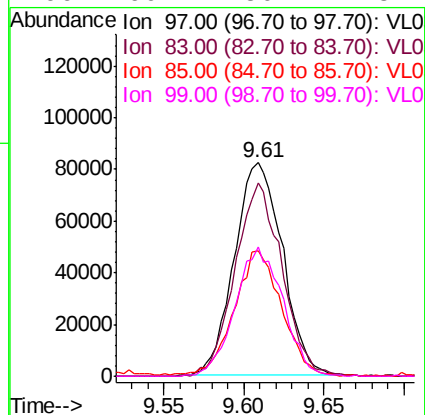
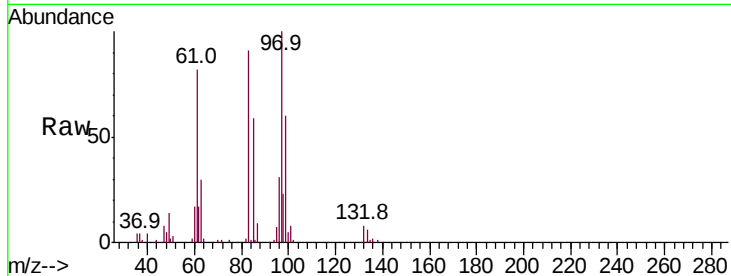
#47
 1,1,2-Trichloroethane
 Concen: 1.871 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	97	Resp	168873
Ion	Ratio	Lower	Upper
97	100		
83	90.7	75.8	113.8
85	59.0	47.5	71.3
99	60.2	50.2	75.2

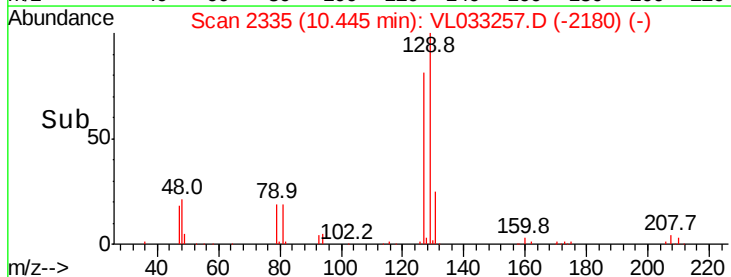
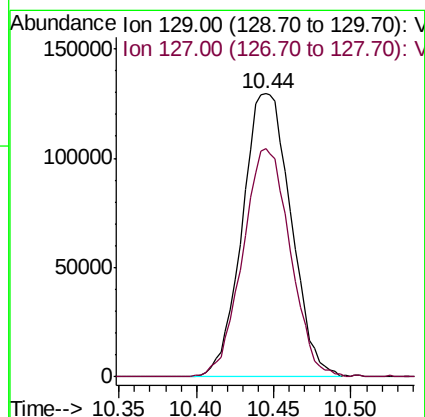
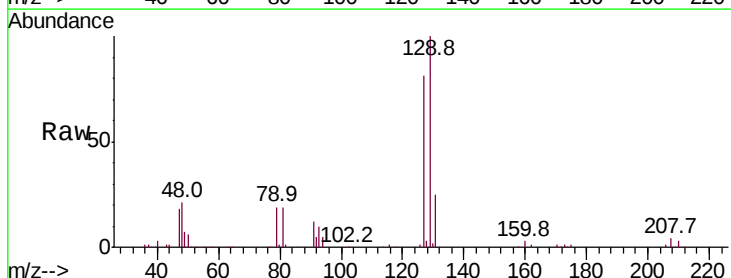
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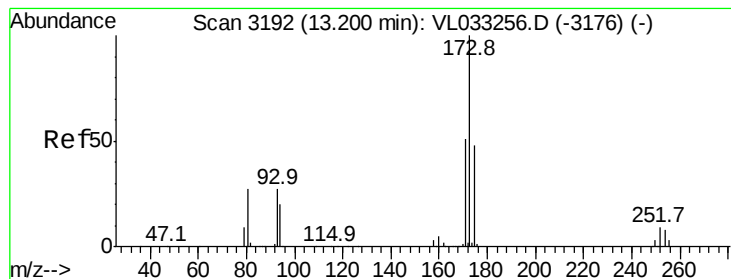
MMDadoda
 3/11/2019 10:10:08 AM



#48
 Dibromochloromethane
 Concen: 1.935 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Tgt Ion	129	Resp	282794
Ion	Ratio	Lower	Upper
129	100		
127	79.4	39.4	118.2





#49

Bromoform

Concen: 2.164 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

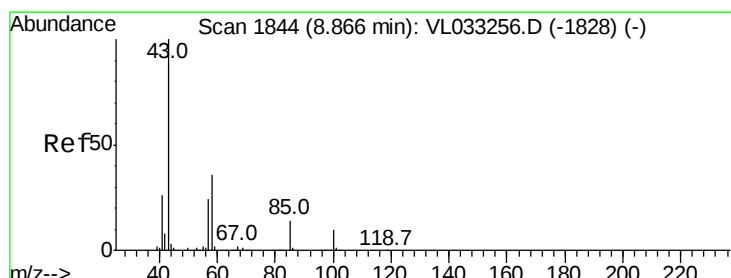
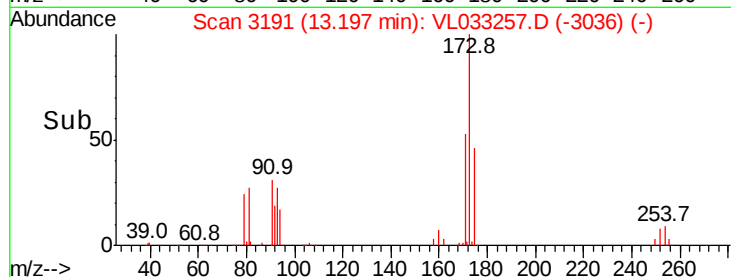
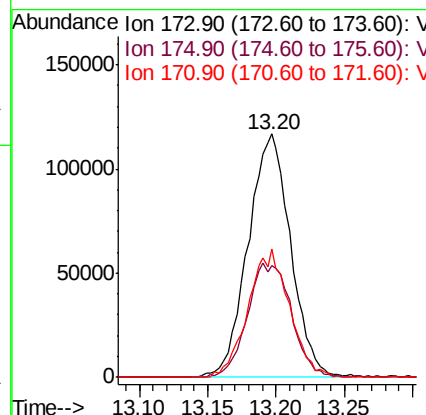
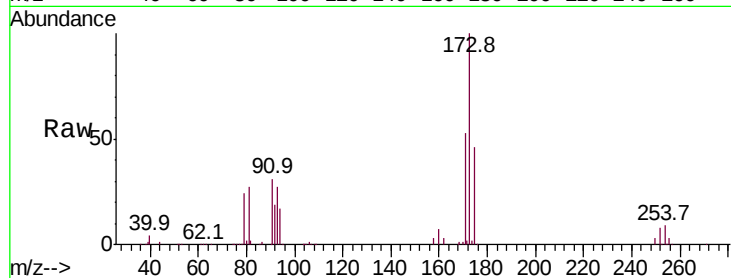
ClientSampleId :

VSTDIC002

Tot Ion:	173	Resp:	252594
Ion Ratio	Lower	Upper	
173	100		
175	48.6	38.8	58.2
171	51.3	41.5	62.3

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#50

4-Methyl-2-Pentanone

Concen: 1.868 ppbv

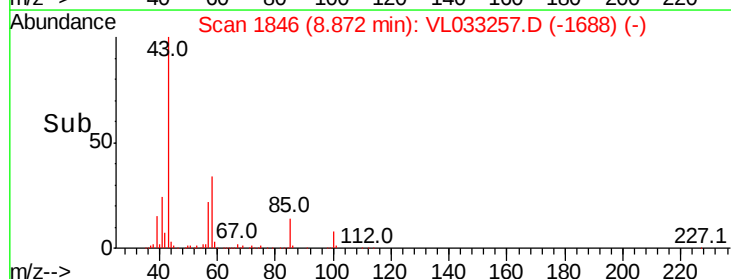
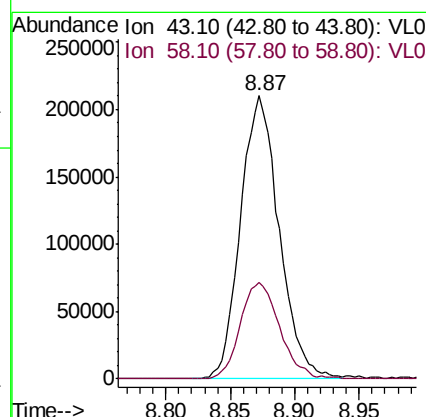
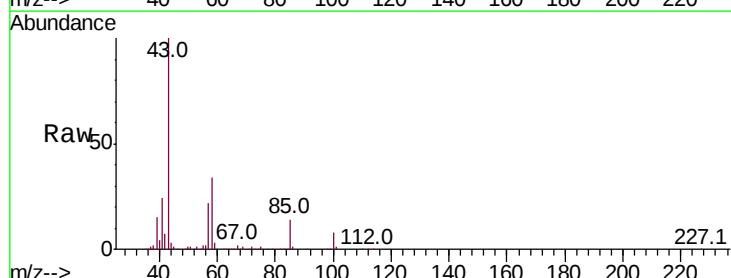
RT: 8.87 min Scan# 1846

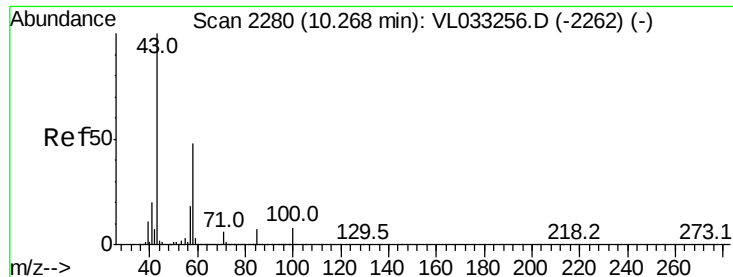
Delta R.T. 0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	43	Resp:	438196
Ion Ratio	Lower	Upper	
43	100		
58	35.0	28.1	42.1





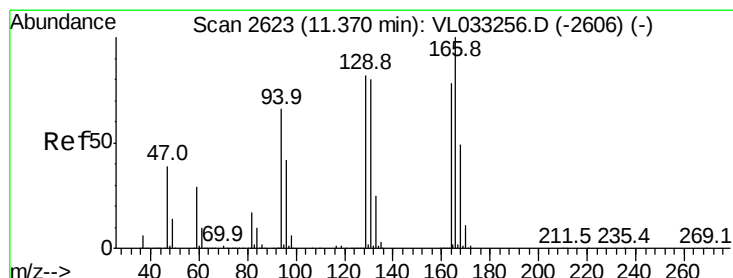
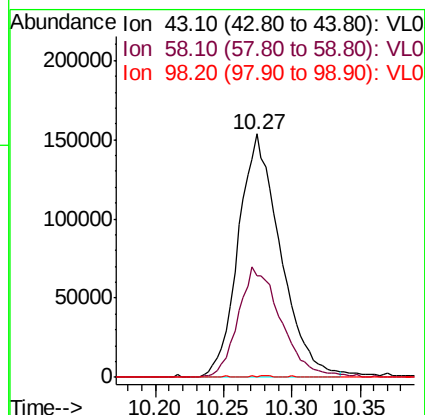
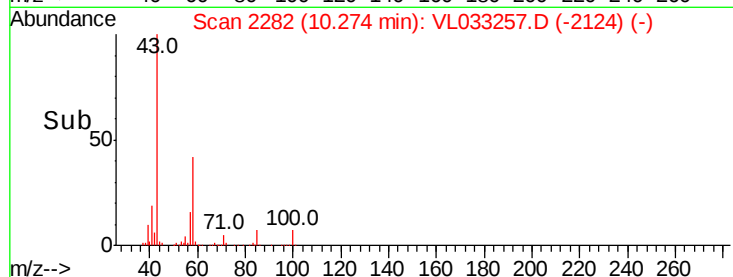
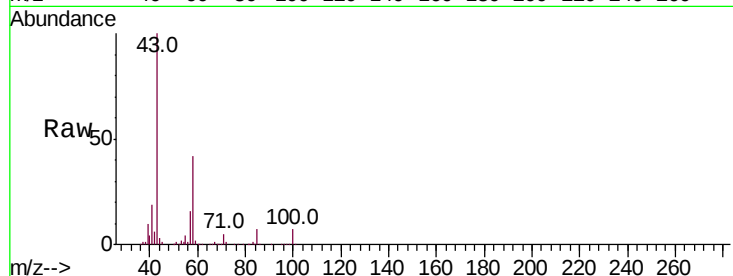
#51
2-Hexanone
Concen: 1.879 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.01 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.0	38.1	57.1
98	0.5	0.2	0.4

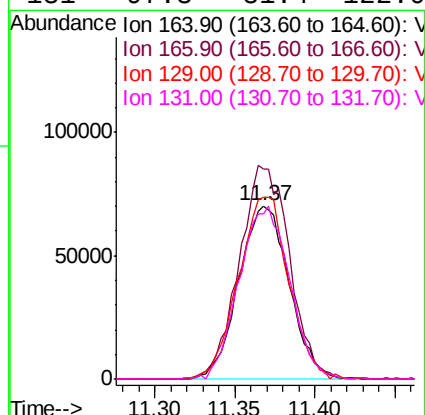
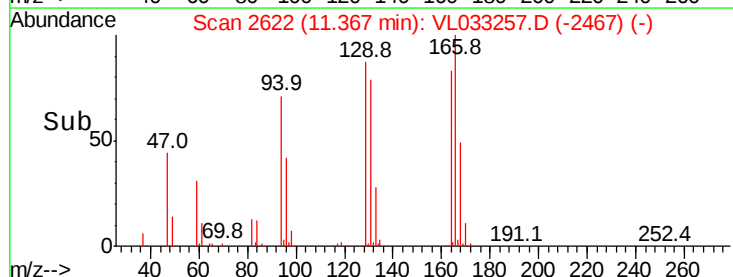
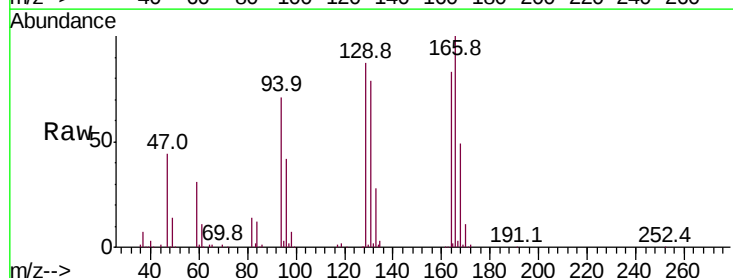
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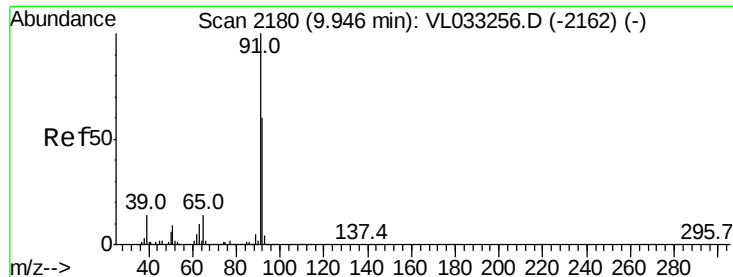
MMDadoda
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#52
Tetrachloroethene
Concen: 1.890 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.6	102.0	153.0
129	104.4	83.2	124.8
131	97.3	81.4	122.0





#53

Toluene

Concen: 1.909 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 473991

Ion Ratio Lower Upper

91 100

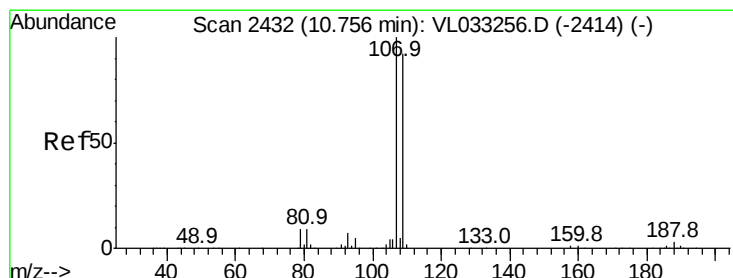
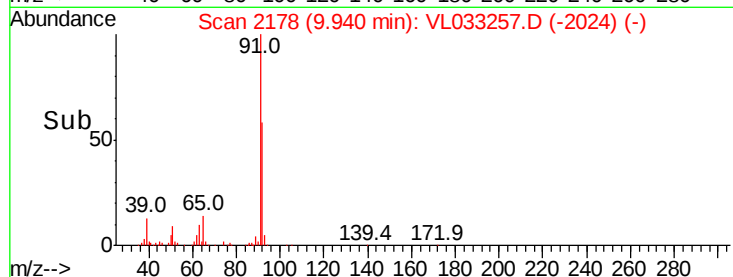
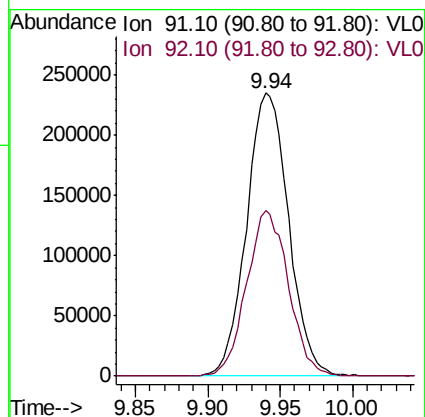
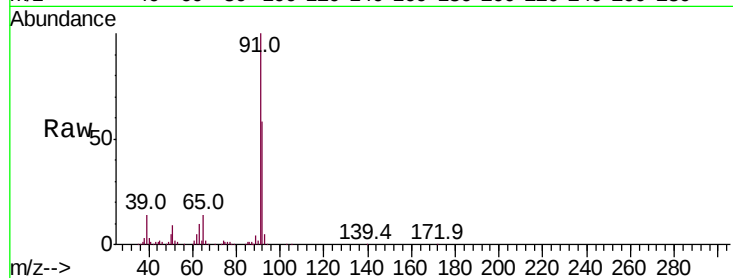
92 58.3 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 1.886 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VL033257.D

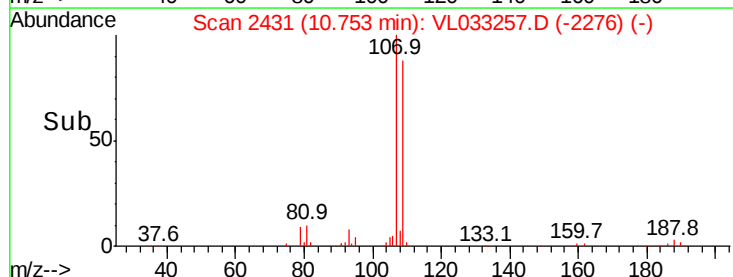
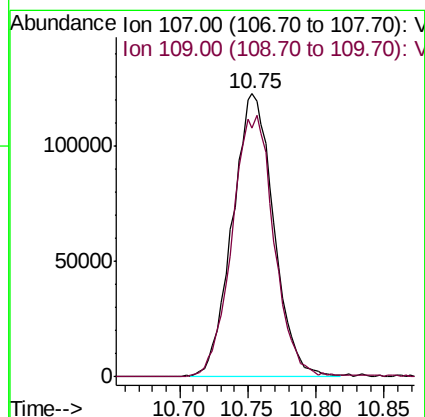
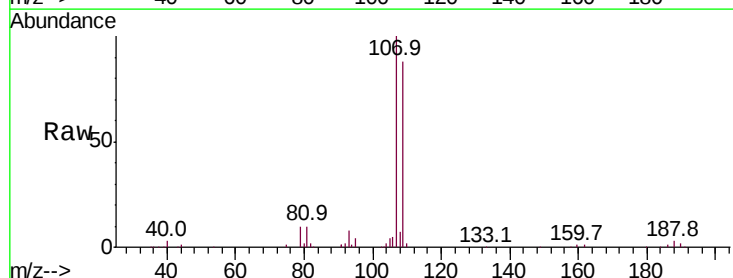
Acq: 8 Mar 2019 13:27

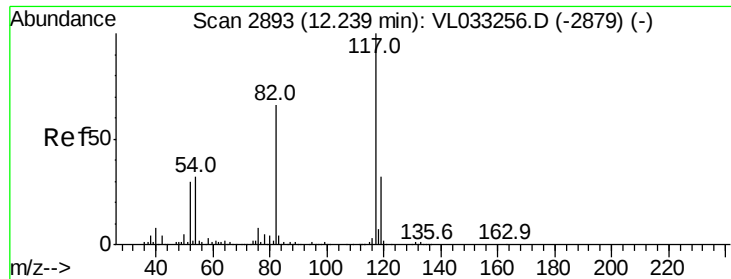
Tgt Ion: 107 Resp: 258549

Ion Ratio Lower Upper

107 100

109 87.2 73.9 110.9





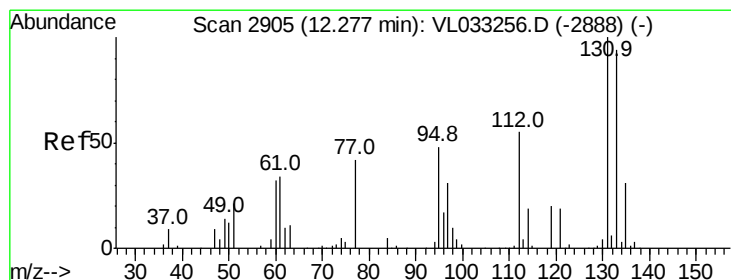
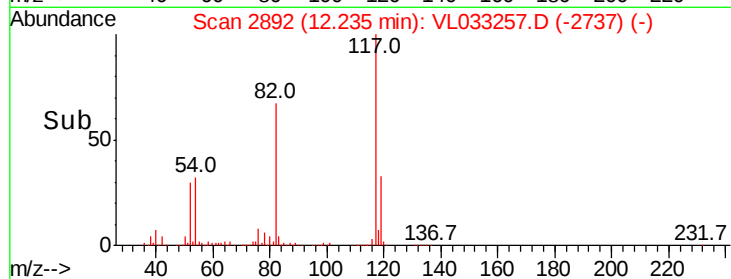
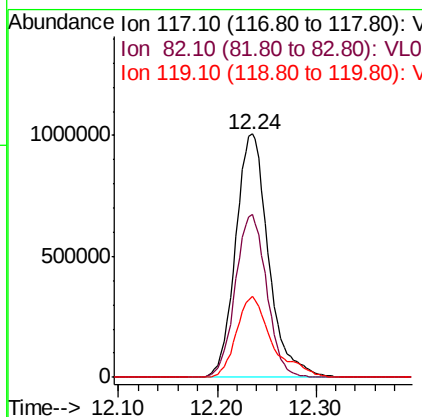
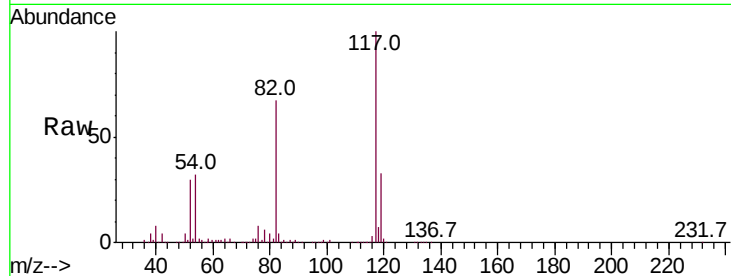
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tot Ion:117 Resp: 2323172
Ion Ratio Lower Upper
117 100
82 64.1 52.2 78.4
119 36.1 43.4 65.2#

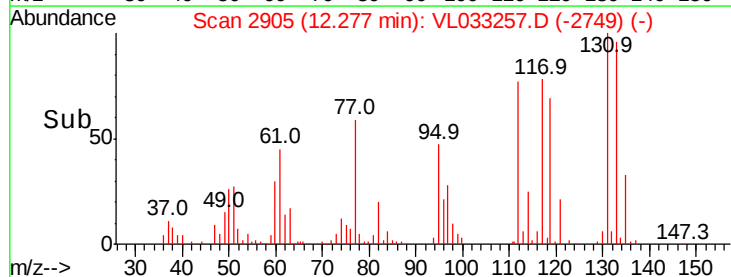
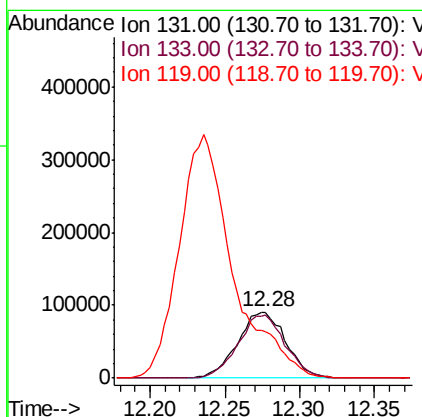
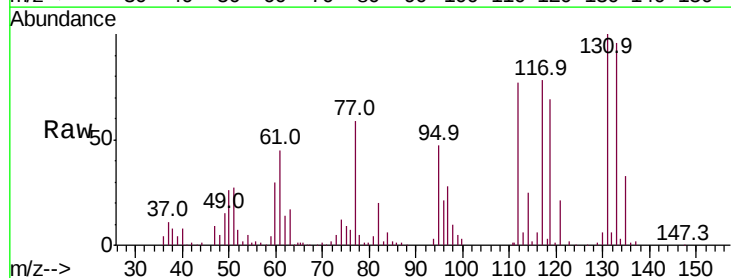
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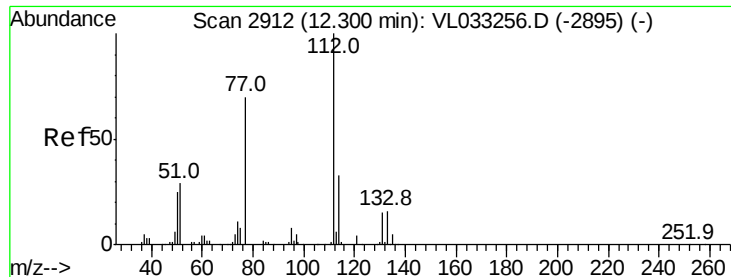
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.008 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Tgt Ion:131 Resp: 202529
Ion Ratio Lower Upper
131 100
133 93.7 76.3 114.5
119 413.7 109.2 163.8#





#57

Chlorobenzene

Concen: 1.952 ppbv

RT: 12.29 min Scan# 2910

Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

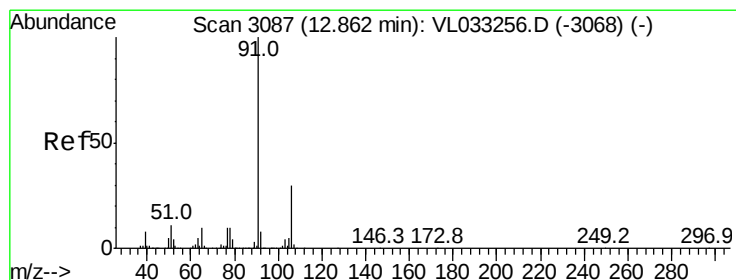
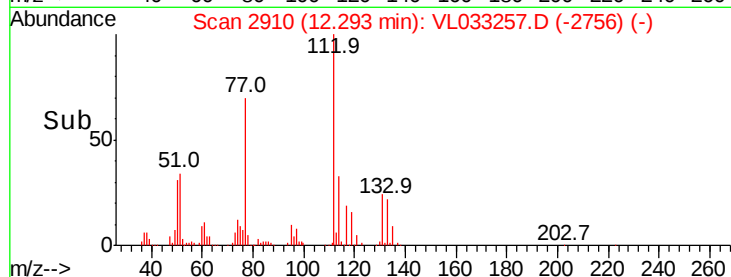
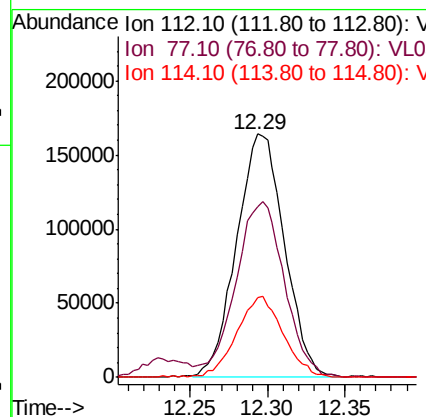
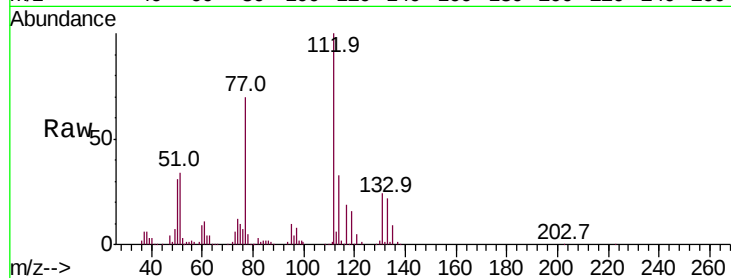
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	353066
Ion Ratio	Lower	Upper	
112	100		
77	69.9	56.8	85.2
114	32.6	29.5	36.1

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#58

Ethyl Benzene

Concen: 2.267 ppbv

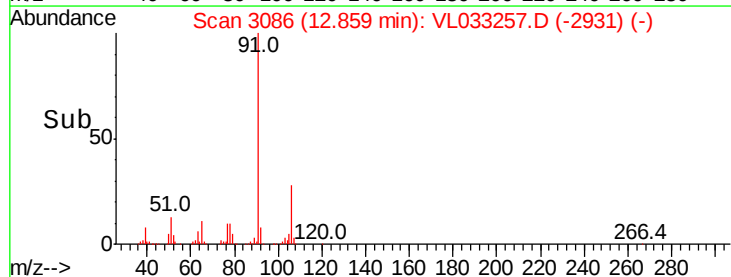
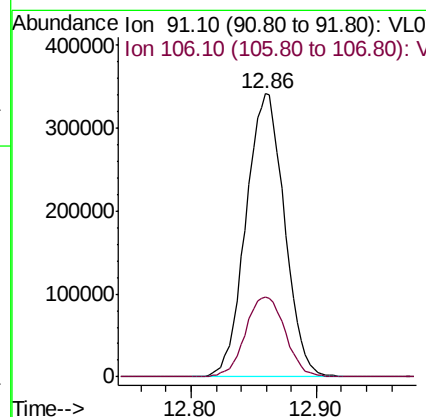
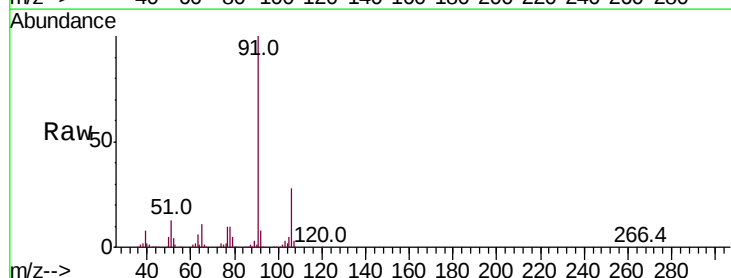
RT: 12.86 min Scan# 3086

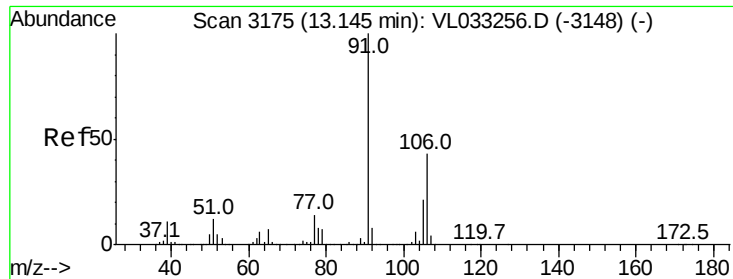
Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	91	Resp:	728423
Ion Ratio	Lower	Upper	
91	100		
106	28.3	23.7	35.5





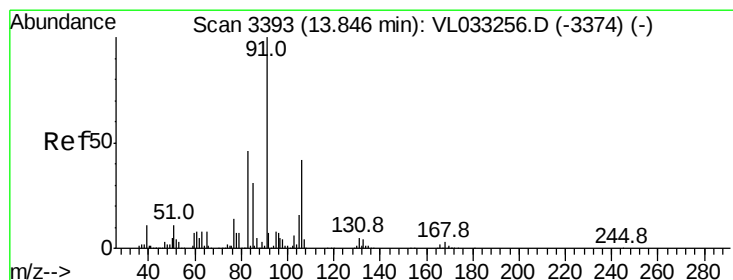
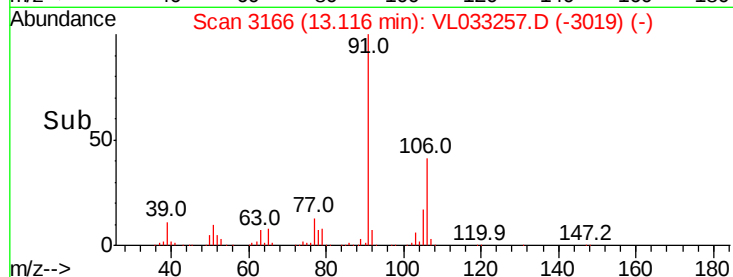
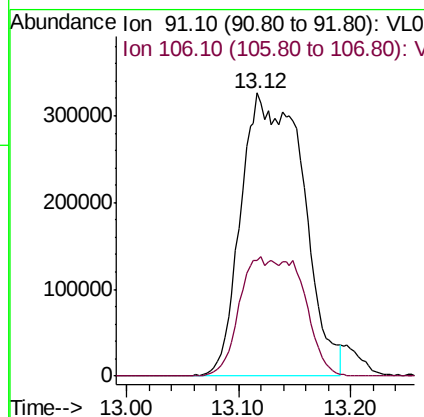
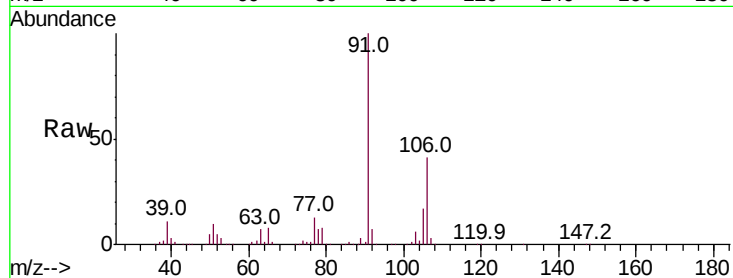
#59
m/p-Xylene
Concen: 4.560 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.03 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1248527
Ion Ratio Lower Upper
91 100
106 0.0 35.0 52.4#

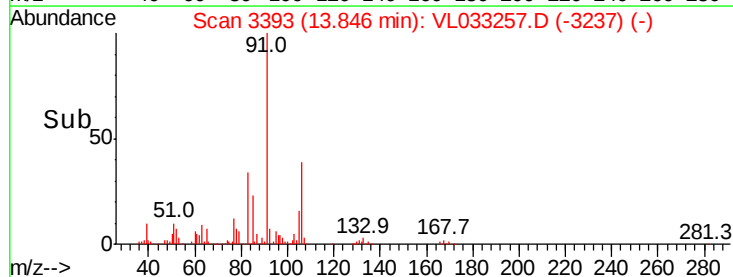
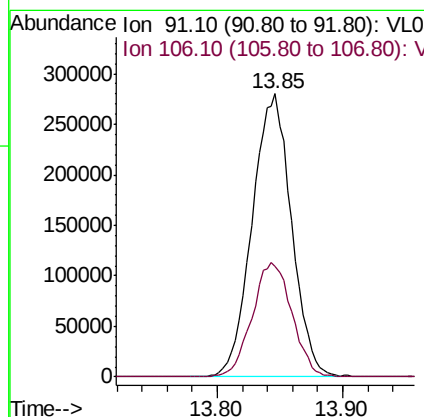
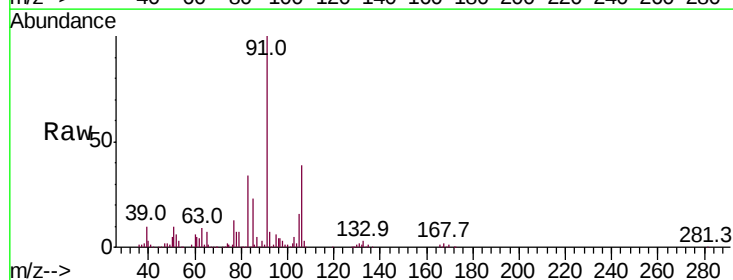
Manual Integrations
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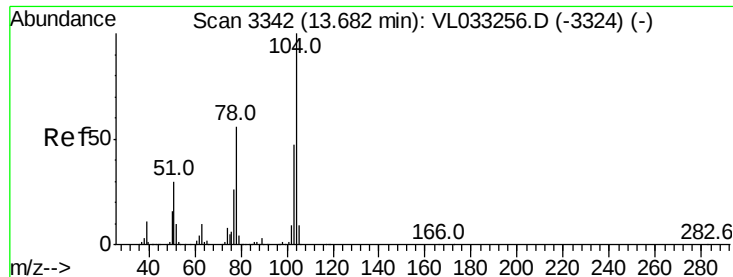
MMDadoda
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#60
o-Xylene
Concen: 2.334 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. 0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Tgt Ion: 91 Resp: 609447
Ion Ratio Lower Upper
91 100
106 41.0 21.1 63.4





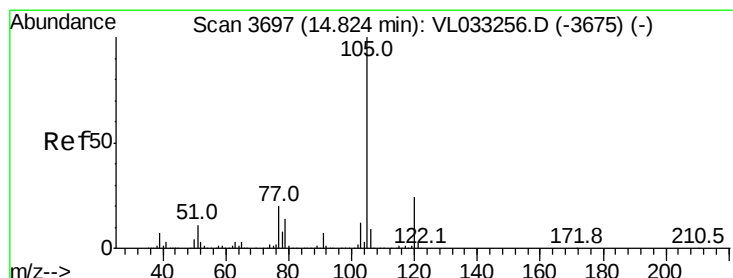
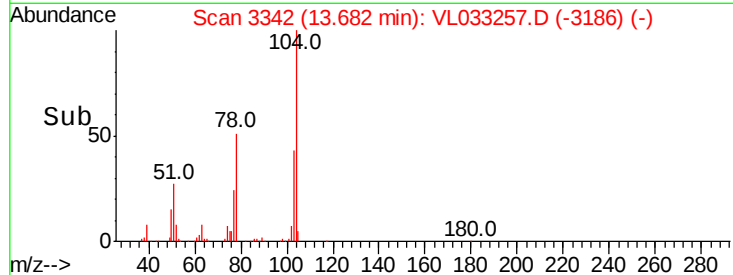
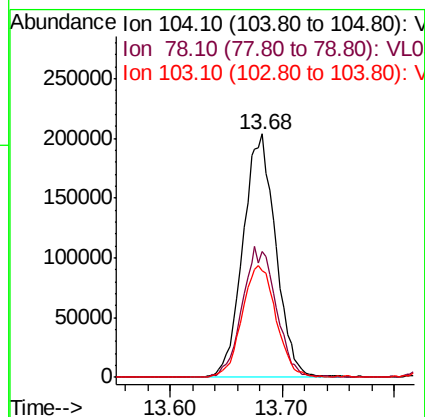
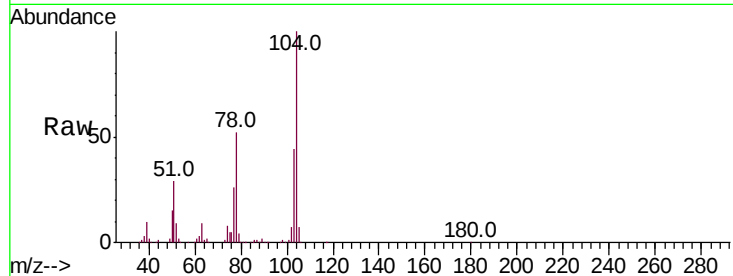
#61
Stvrene
Concen: 2.249 ppbv m
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.3	43.9	65.9
103	47.4	38.3	57.5

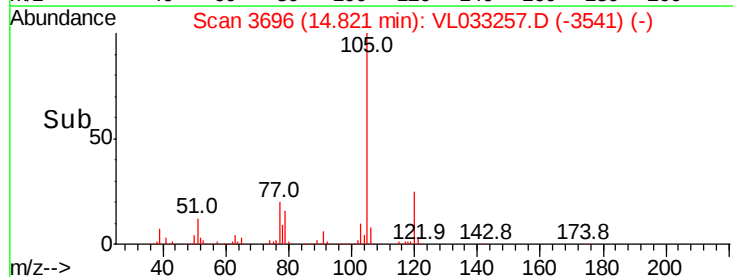
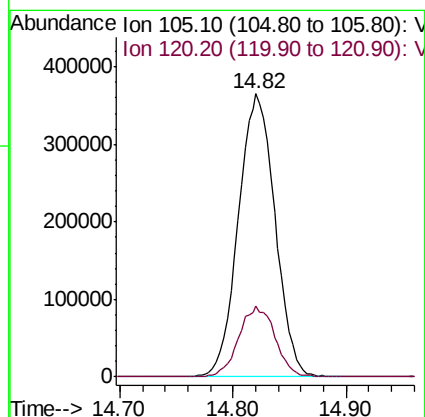
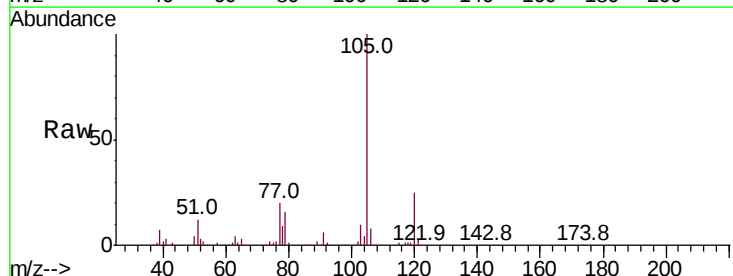
Manual Integrations
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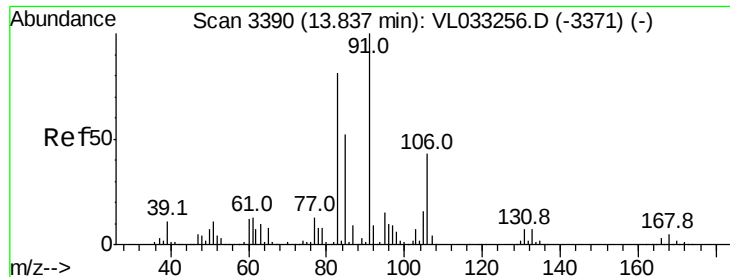
MMDadoda
3/11/2019 10:10:08 AM



#62
Isopropylbenzene
Concen: 2.264 ppbv
RT: 14.82 min Scan# 3696
Delta R.T. -0.00 min
Lab File: VL033257.D
Acq: 8 Mar 2019 13:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.7	29.5





#63

1,1,2,2-Tetrachloroethane

Concen: 2.104 ppbv

RT: 13.83 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

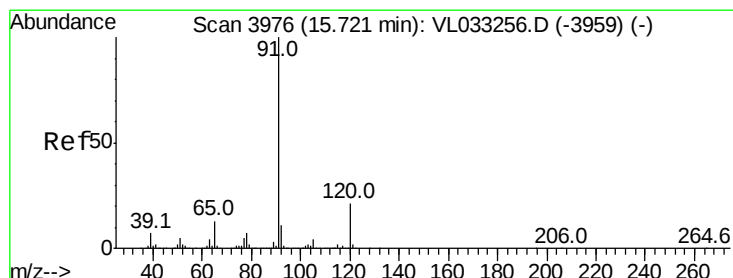
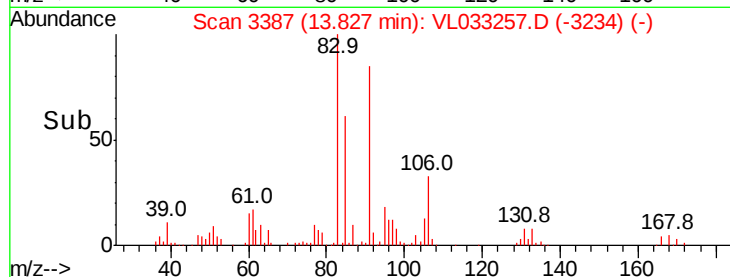
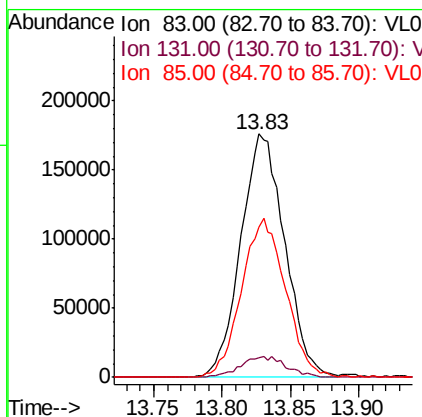
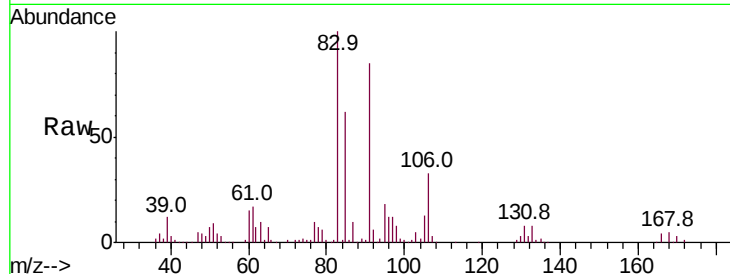
ClientSampleId :

VSTDIC002

Tot Ion:	83	Resp:	390963
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.7	14.0
85	66.6	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
3/11/2019 10:10:08 AM



#64

n-propylbenzene

Concen: 2.248 ppbv

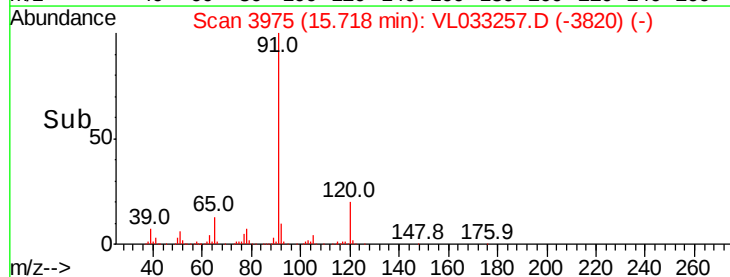
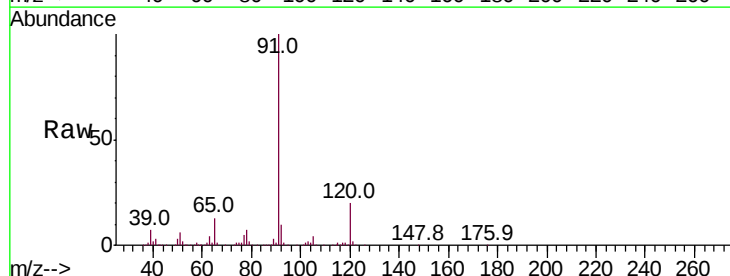
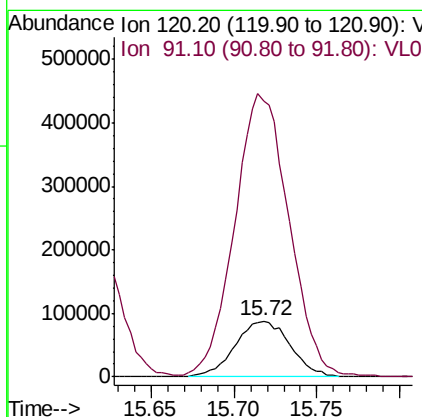
RT: 15.72 min Scan# 3975

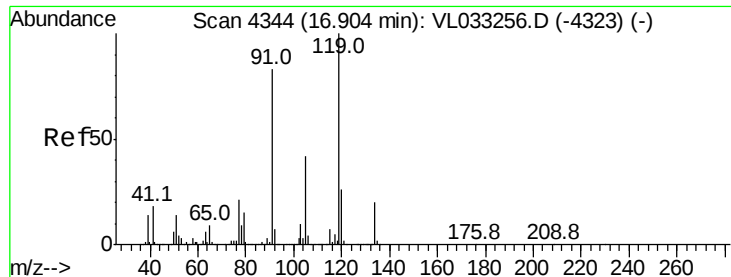
Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	120	Resp:	202803
Ion	Ratio	Lower	Upper
120	100		
91	502.3	392.8	589.2





#65

tert-Butylbenzene

Concen: 2.322 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

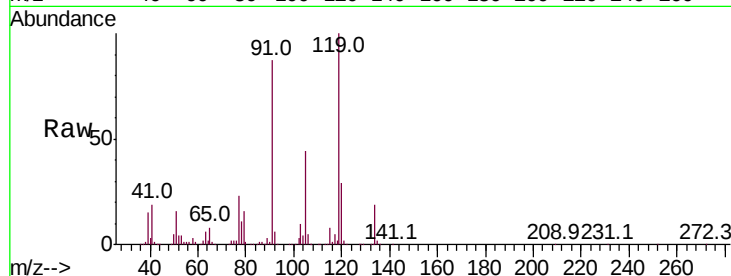
ClientSampleId :

VSTDIC002

Tot Ion:	119	Resp:	721625
Ion Ratio	Lower	Upper	
119	100		
91	85.1	67.3	100.9
134	19.1	15.5	23.3

Manual Integrations
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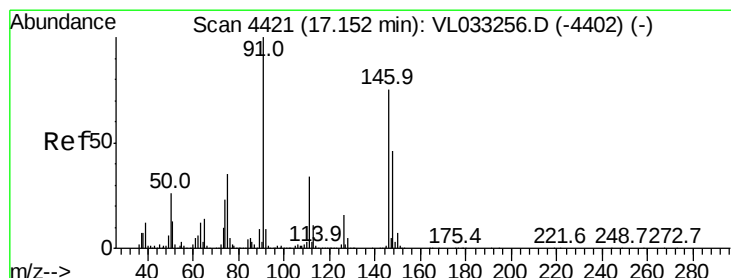
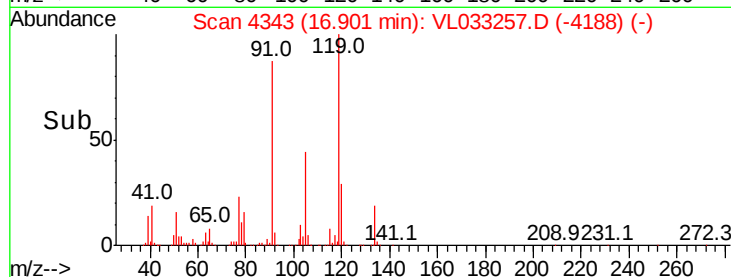
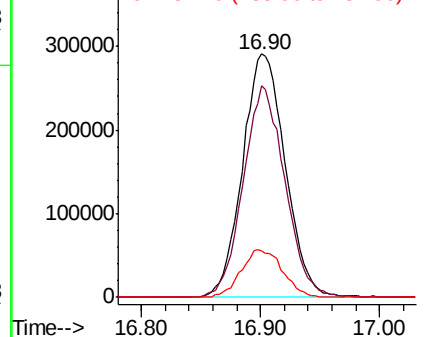
MMDadoda
3/11/2019 10:10:08 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 2.010 ppbv m

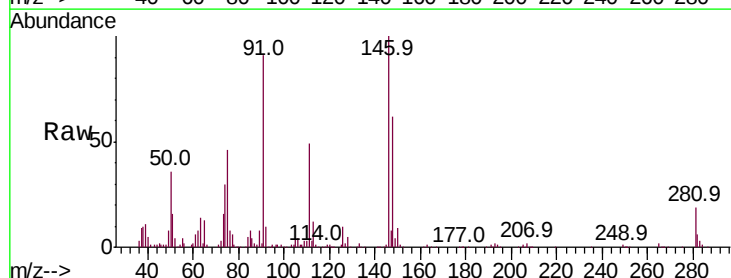
RT: 17.15 min Scan# 4420

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

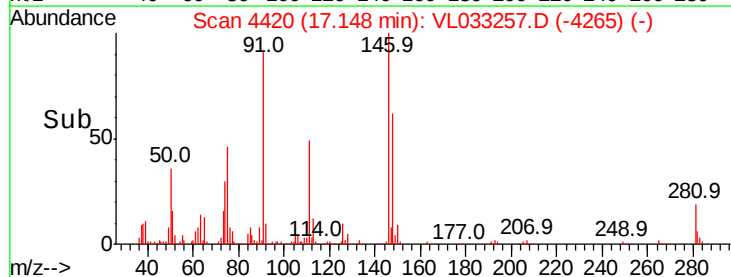
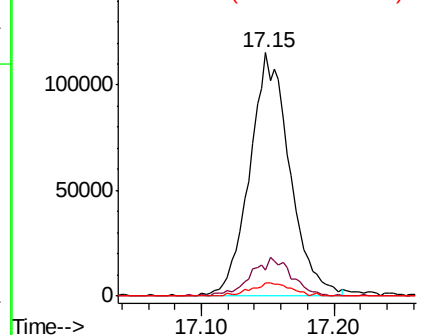
Tgt Ion:	91	Resp:	241577
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.0	19.6#
128	5.4	4.2	6.2

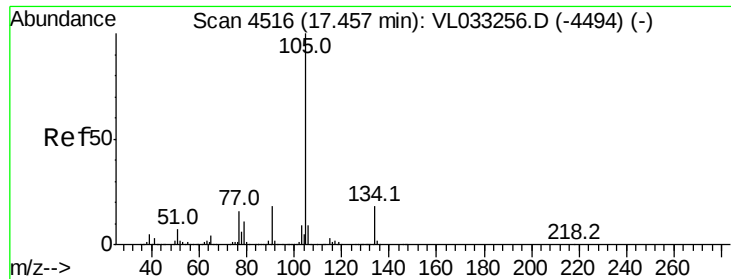


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 2.278 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1009390

Ion Ratio Lower Upper

105 100

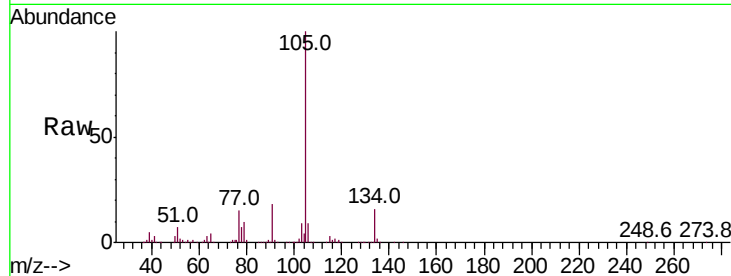
134 17.2 14.0 21.0

Manual Integrations

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MMDadoda

3/11/2019 10:10:08 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.45

400000

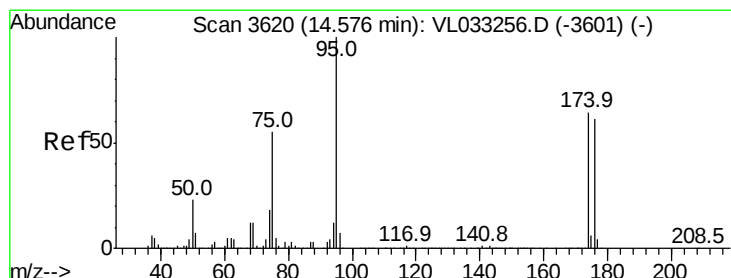
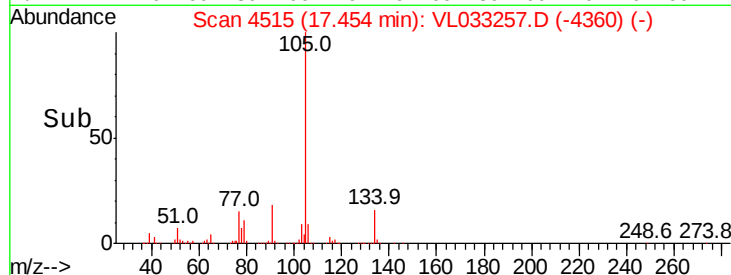
300000

200000

100000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 11.213 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

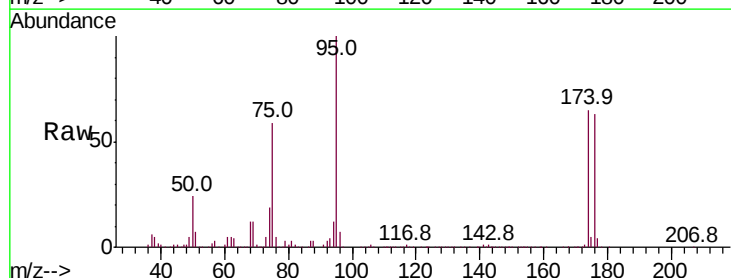
Tgt Ion: 95 Resp: 1976715

Ion Ratio Lower Upper

95 100

174 64.1 51.7 77.5

175 4.7 3.8 5.8



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

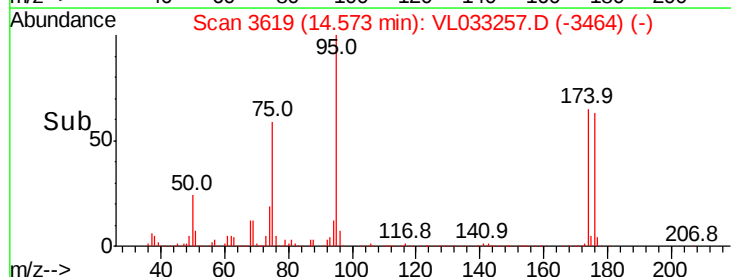
600000

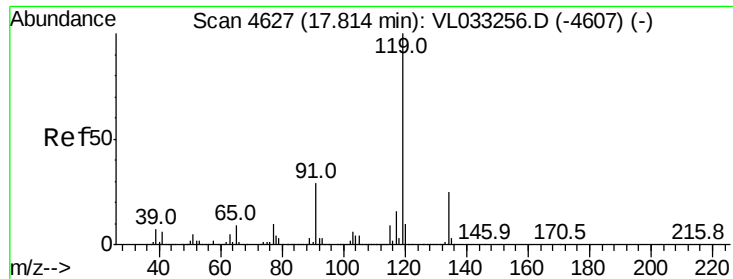
400000

200000

0

Time-->





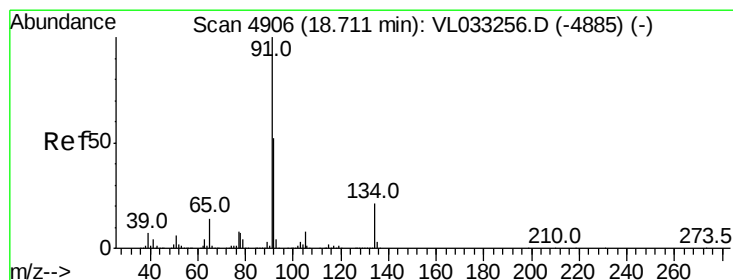
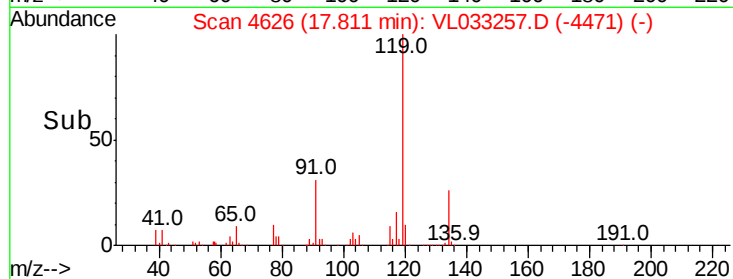
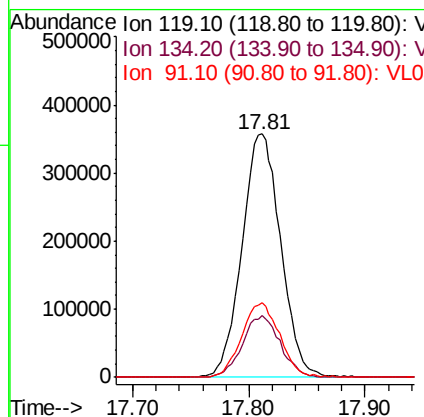
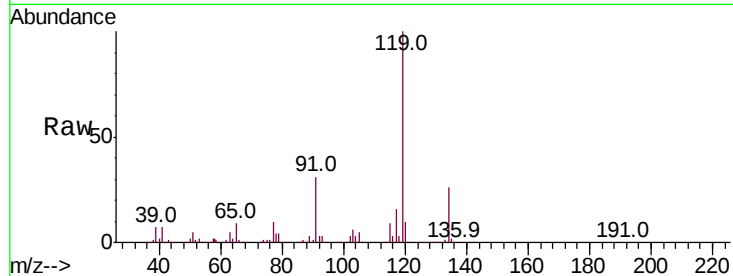
#69
 p-Isopropyltoluene
 Concen: 2.312 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	119	Resp:	828196
Ion Ratio	Lower	Upper	
119	100		
134	24.9	19.8	29.8
91	30.3	23.9	35.9

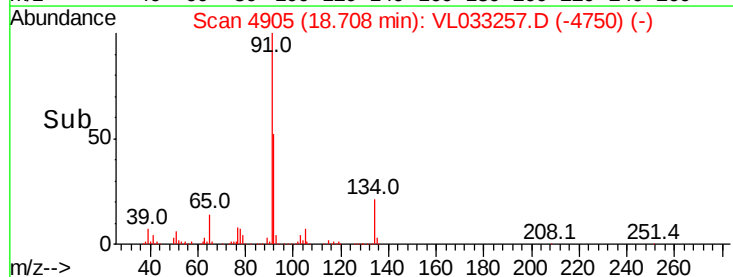
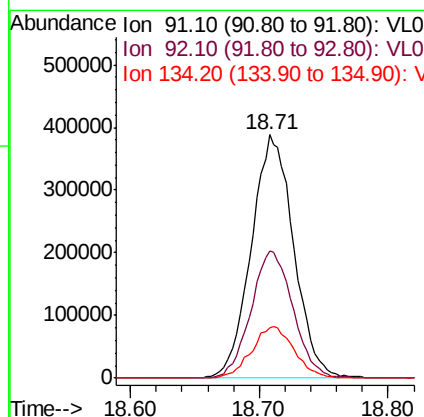
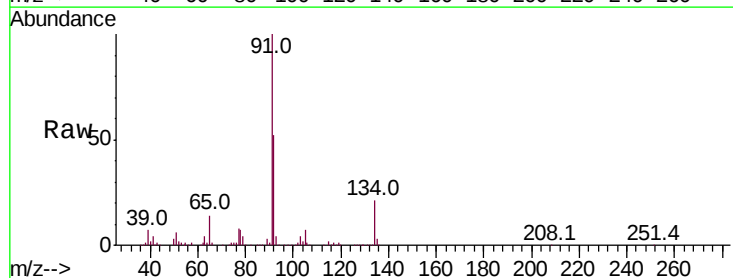
Manual Integrations
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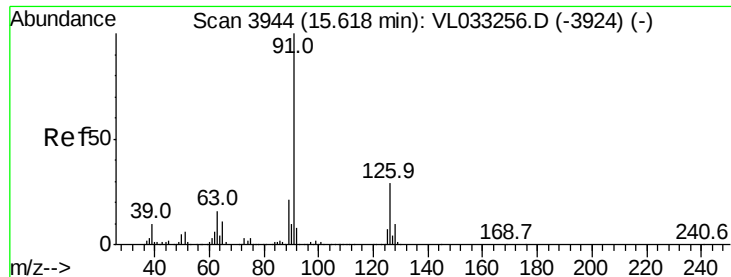
MMDadoda
 3/11/2019 10:10:08 AM



#70
 n-Butylbenzene
 Concen: 2.259 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Tgt Ion:	91	Resp:	886534
Ion Ratio	Lower	Upper	
91	100		
92	52.0	42.6	63.8
134	21.2	17.3	25.9





#71

2-Chlorotoluene

Concen: 2.264 ppbv m

RT: 15.61 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 630114

Ion Ratio Lower Upper

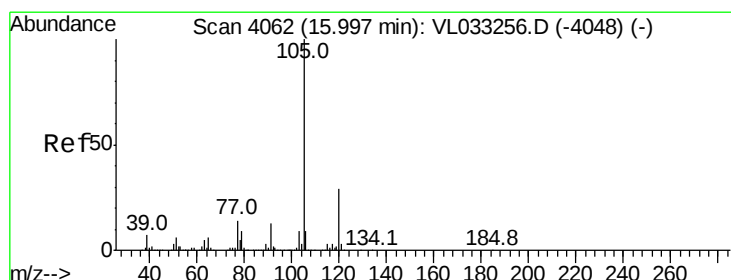
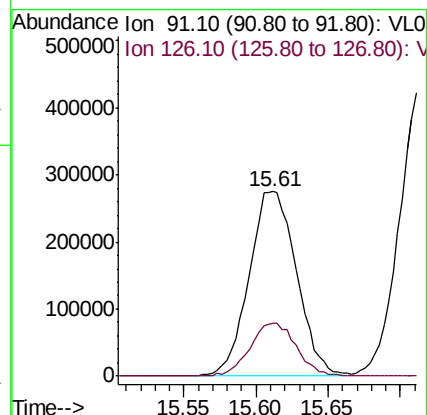
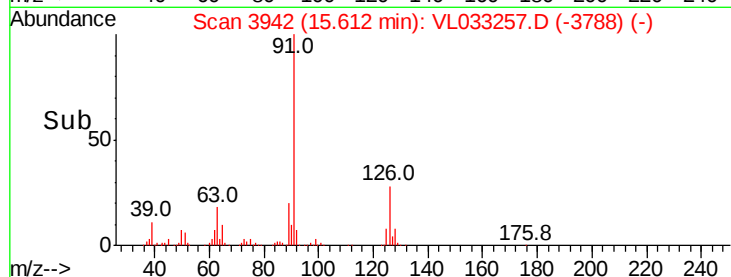
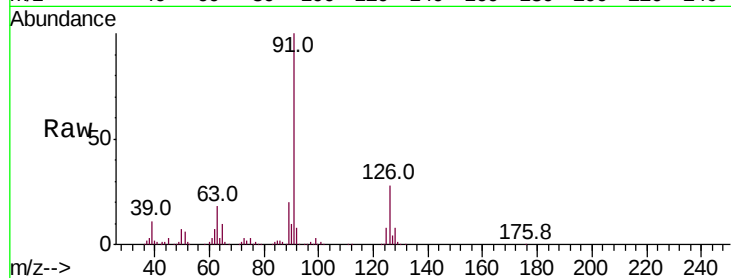
91 100

126 28.2 11.7 46.9

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3/11/2019 10:10:08 AM



#72

4-Ethyltoluene

Concen: 2.281 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion: 105 Resp: 650832

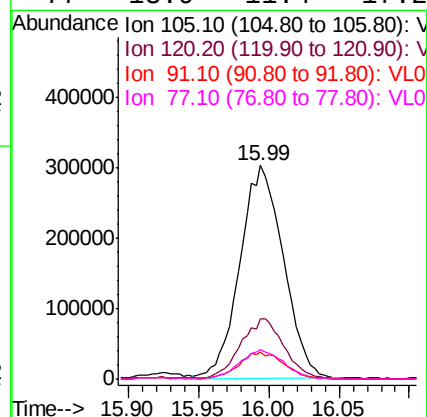
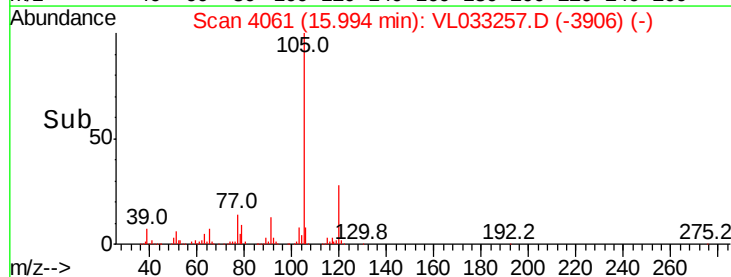
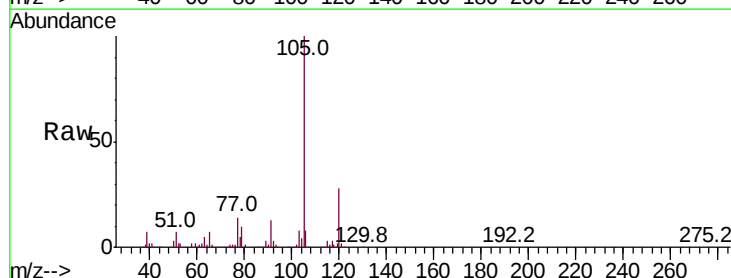
Ion Ratio Lower Upper

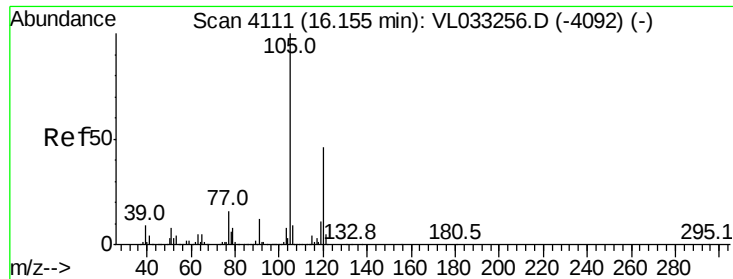
105 100

120 28.5 22.9 34.3

91 13.2 10.4 15.6

77 13.9 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 2.282 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 624872

Ion Ratio Lower Upper

105 100

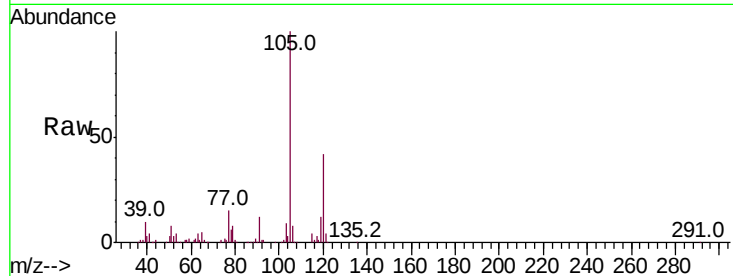
120 41.8 36.6 55.0

Manual Integrations

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MMDadoda

3/11/2019 10:10:08 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

300000

250000

200000

150000

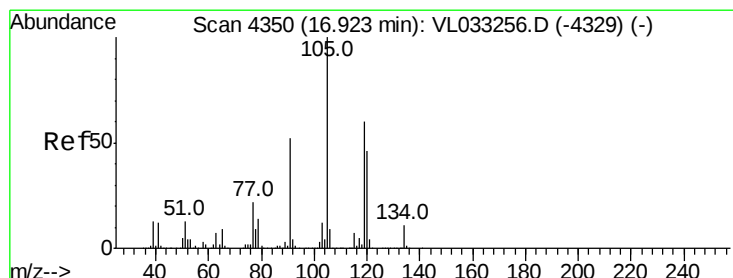
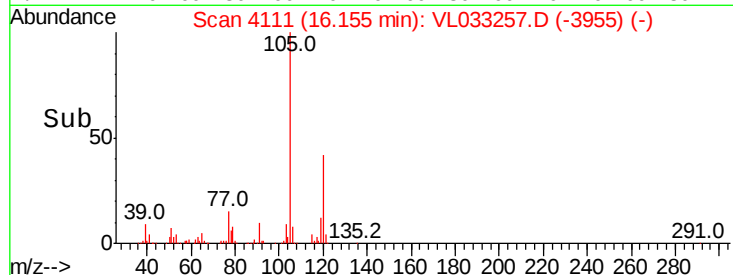
100000

50000

0

16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.228 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:105 Resp: 641440

Ion Ratio Lower Upper

105 100

120 47.2 36.7 55.1

91 40.7 42.1 63.1#

77 19.6 17.8 26.6

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

400000

300000

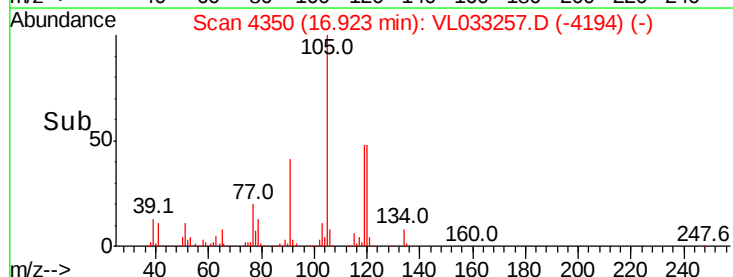
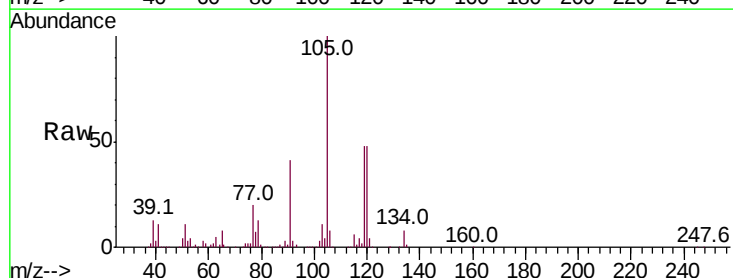
200000

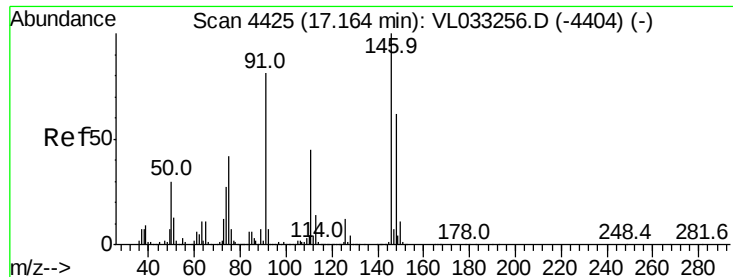
100000

0

16.85 16.90 16.95 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 2.247 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

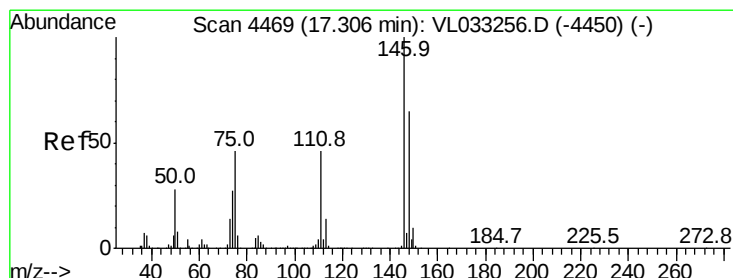
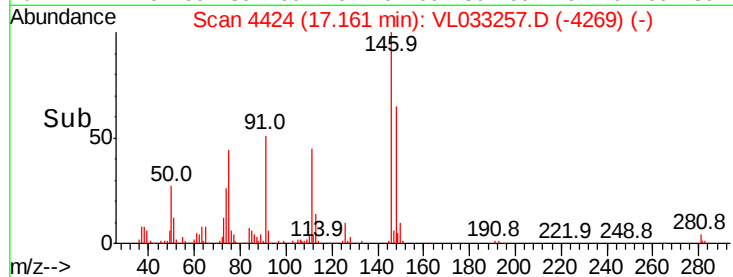
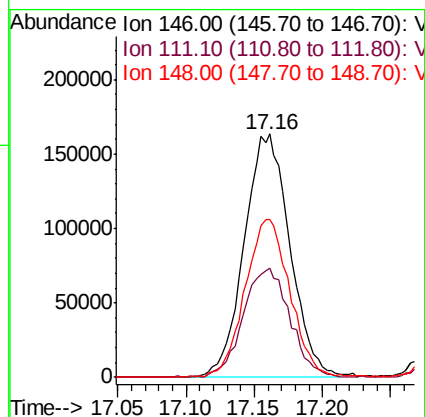
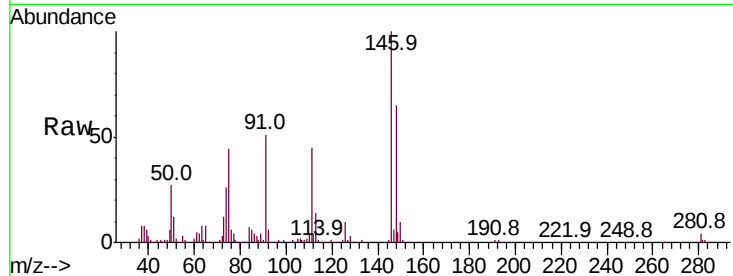
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	378286
Ion Ratio	Lower	Upper	
146	100		
111	46.1	22.9	68.7
148	64.1	31.6	94.7

Manual Integrations
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MMDadoda
3/11/2019 10:10:08 AM



#76

1,4-Dichlorobenzene

Concen: 2.188 ppbv

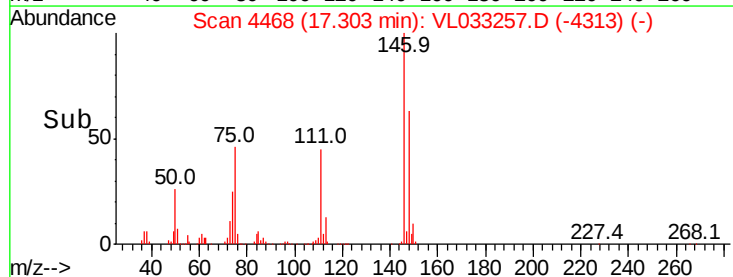
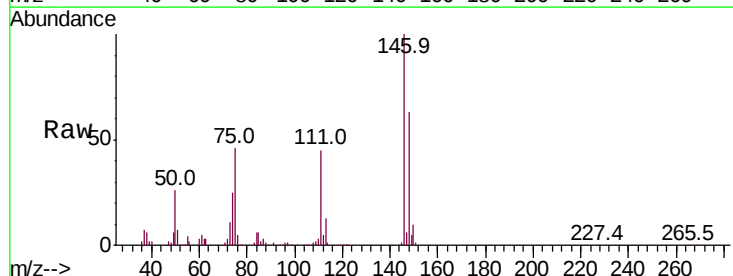
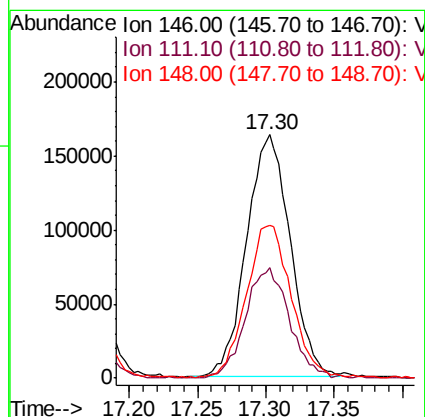
RT: 17.30 min Scan# 4468

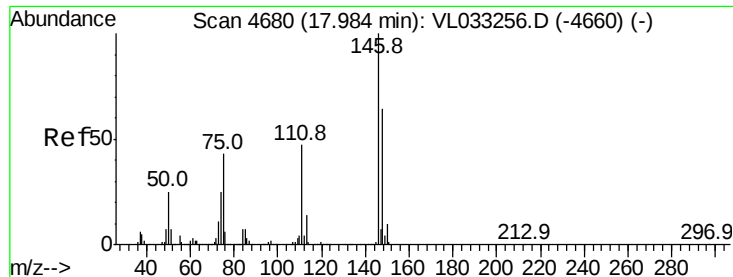
Delta R.T. -0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	146	Resp:	365040
Ion Ratio	Lower	Upper	
146	100		
111	46.2	22.6	67.7
148	65.2	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 2.264 ppbv

RT: 17.98 min Scan# 4678

Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

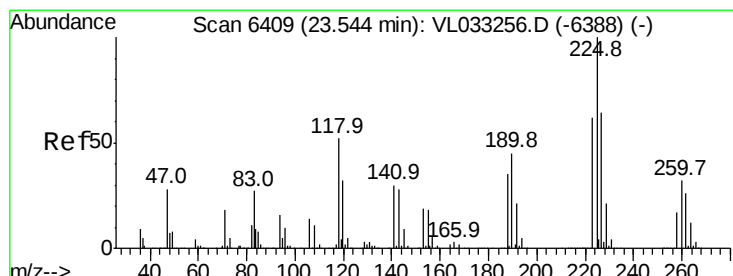
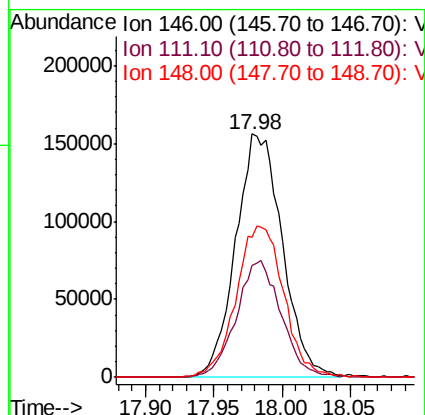
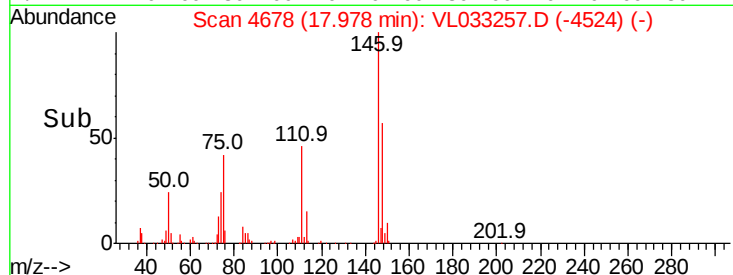
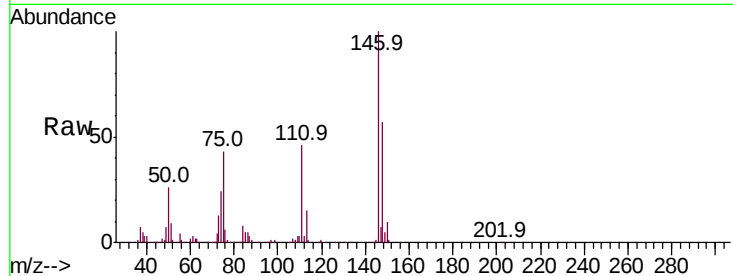
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	370049
Ion Ratio	Lower	Upper	
146	100		
111	46.3	23.8	71.2
148	63.8	32.0	96.2

Manual Integrations
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MMDadoda
3/11/2019 10:10:08 AM



#78

Hexachloro-1,3-Butadiene

Concen: 2.357 ppbv

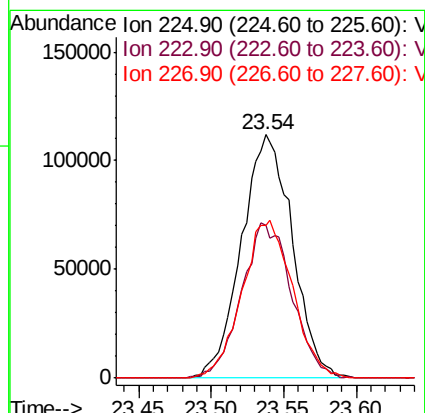
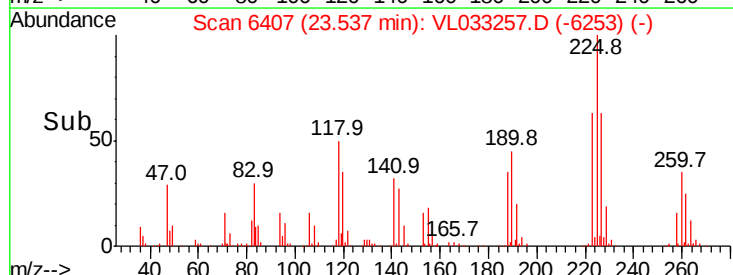
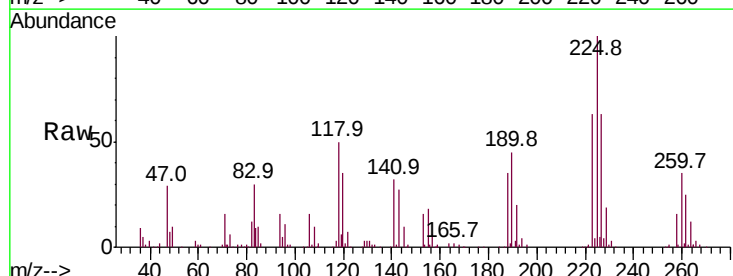
RT: 23.54 min Scan# 6407

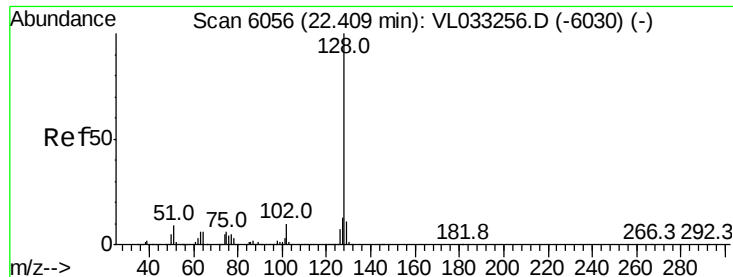
Delta R.T. -0.01 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	225	Resp:	272662
Ion Ratio	Lower	Upper	
225	100		
223	62.8	50.4	75.6
227	64.5	51.4	77.0





#79

Naphthalene

Concen: 1.780 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Instrument :

MSVOA_L

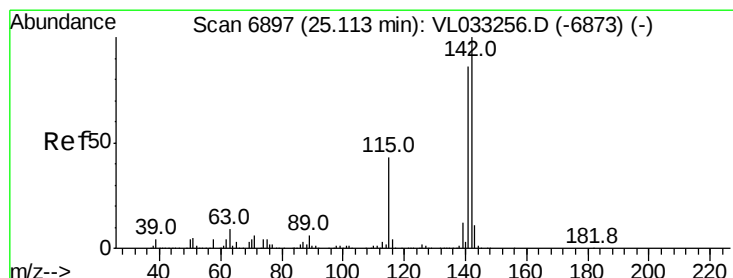
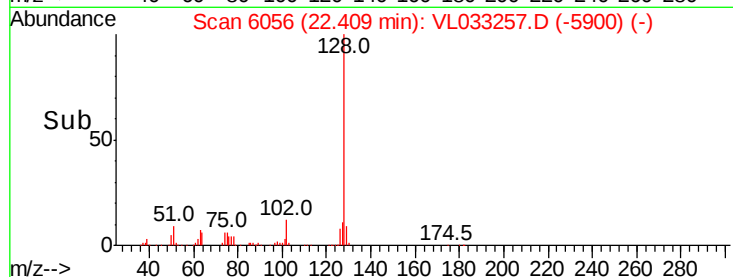
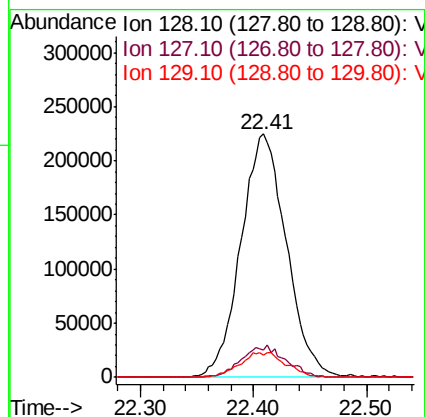
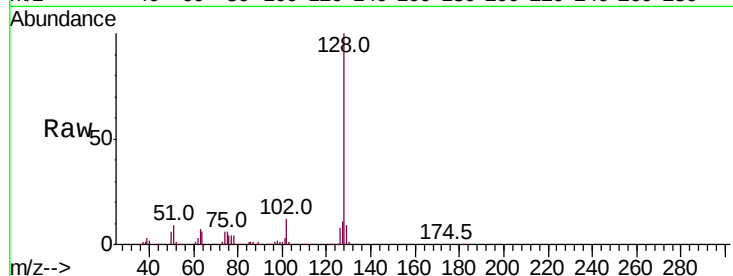
ClientSampleId :

VSTDIC002

Tot Ion:	128	Resp:	626695
Ion Ratio	Lower	Upper	
128	100		
127	11.3	10.3	15.5
129	9.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/11/2019 10:10:08 AM



#80

Naphthalene, 2-methyl-

Concen: 0.684 ppbv

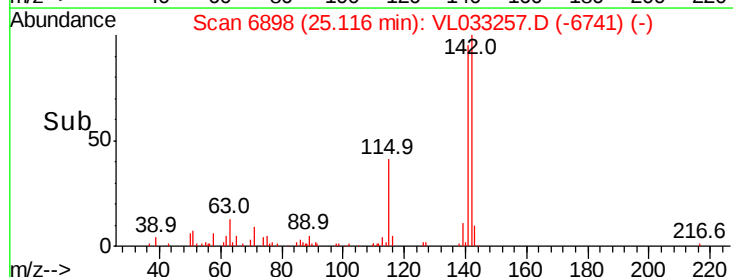
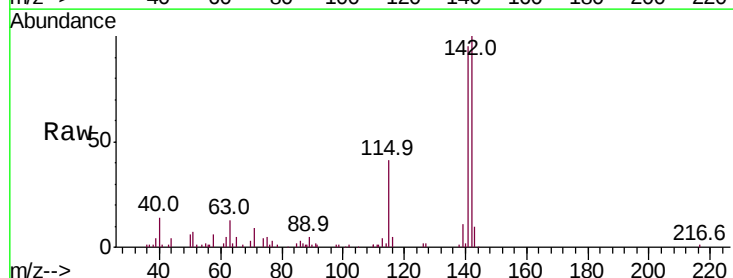
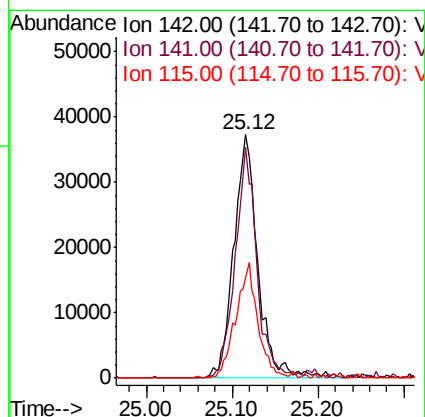
RT: 25.12 min Scan# 6898

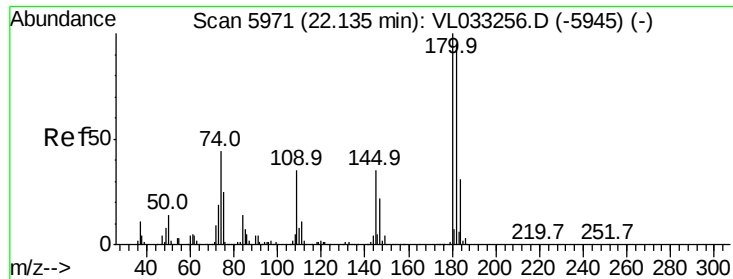
Delta R.T. 0.00 min

Lab File: VL033257.D

Acq: 8 Mar 2019 13:27

Tgt Ion:	142	Resp:	71986
Ion Ratio	Lower	Upper	
142	100		
141	86.1	67.6	101.4
115	43.9	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 1.907 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033257.D
 Acq: 8 Mar 2019 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	97.4	76.3	114.5
184	30.8	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:08 AM

