

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U020519\
 Data File : VU029343.D
 Acq On : 05 Feb 2019 12:36
 Operator : JC/SP
 Sample : VSTDICCC010
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDICCC010

Manual Integrations
 APPROVED

sam
 2/8/2019 2:26:24 PM

Quant Time: Feb 08 10:40:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:20:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	57973	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	22636	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	24285	1.05	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	214548	9.917	ug/l	98
3) Chloromethane	1.33	50	189274	9.574	ug/l	97
4) Vinyl Chloride	1.40	62	233839	10.089	ug/l	100
5) Bromomethane	1.62	94	116976	9.073	ug/l	95
6) Chloroethane	1.70	64	134077	9.902	ug/l	98
7) Trichlorofluoromethane	1.88	101	327225	10.110	ug/l	97
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	173043	10.126	ug/l	91
9) 1,1-Dichloroethene	2.28	96	167570	10.020	ug/l	75
10) Iodomethane	2.41	142	251858	11.739	ug/l #	79
11) Allyl Chloride	2.59	41	284730	10.153	ug/l	90
12) Acrylonitrile	2.94	53	74577	19.896	ug/l	97
13) Acetone	2.32	43	176871	49.196	ug/l #	84
14) Carbon Disulfide	2.48	76	591633	10.019	ug/l	99
15) Methylene Chloride	2.70	84	185354	9.140	ug/l #	83
16) trans-1,2-Dichloroethene	2.98	96	186932	10.005	ug/l #	81
17) 1,1-Dichloroethane	3.44	63	291319	9.830	ug/l	98
18) 2-Butanone	4.28	43	220138	54.523	ug/l	98
19) Cyclohexane	4.99	56	259676m	9.940	ug/l	
20) Methylcyclohexane	6.41	83	295666	10.245	ug/l	88
21) 2,2-Dichloropropane	4.22	77	273055	9.954	ug/l	92
22) cis-1,2-Dichloroethene	4.22	96	179224	10.173	ug/l	83
23) Diethyl Ether	2.10	59	134775	10.036	ug/l	90
24) tert-Butyl Alcohol	2.84	59	137845	98.768	ug/l	99
25) Methyl tert-Butyl Ether	3.00	73	476313	10.115	ug/l #	88
26) Bromochloromethane	4.54	128	78366	10.070	ug/l	79
27) Chloroform	4.67	83	294126	10.205	ug/l	98
28) 1,1,1-Trichloroethane	4.91	97	273064	10.222	ug/l	96
29) 1,1-Dichloropropene	5.13	75	236492	10.198	ug/l	94
30) Carbon Tetrachloride	5.13	117	248921	10.293	ug/l	99
31) Isopropyl Ether	3.58	45	458960	10.263	ug/l	90
32) Ethyl-t-butyl ether	4.07	59	453232	10.114	ug/l	92
33) Tert-Amyl methyl ether	5.58	73	417300	10.298	ug/l	99
34) Propionitrile	4.33	54	59481	58.414	ug/l #	92
35) Benzene	5.39	78	656639	10.239	ug/l	99
36) 1,2-Dichloroethane	5.40	62	201510	10.389	ug/l #	92
37) Trichloroethene	6.18	130	187110	10.167	ug/l	92
38) 1,2-Dichloropropane	6.43	63	170756	10.235	ug/l	100
39) Methacrylonitrile	4.55	41	56247	10.349	ug/l	90
40) Methyl acrylate	4.42	55	85147	10.378	ug/l #	92
41) Tetrahydrofuran	4.65	42	55719	19.615	ug/l #	88
42) 1-Chlorobutane	5.06	56	320012	10.299	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020519\
 Data File : VU029343.D
 Acq On : 05 Feb 2019 12:36
 Operator : JC/SP
 Sample : VSTDICCC010
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDICCC010

Manual Integrations
 APPROVED

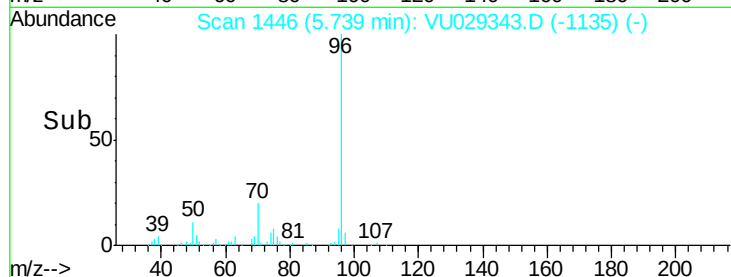
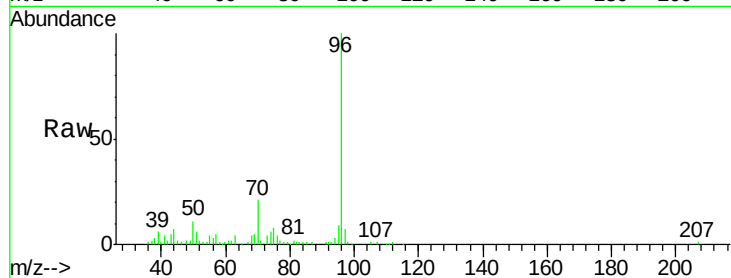
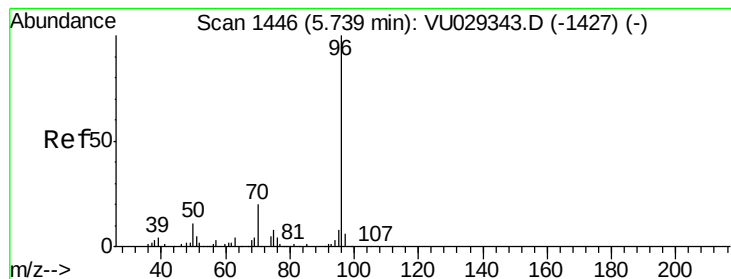
sam
 2/8/2019 2:26:24 PM

Quant Time: Feb 08 10:40:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:20:02 2019
 Response via : Initial Calibration

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

43) Dibromomethane	6.56	93	88861	9.995	ug/l	93
44) Bromodichloromethane	6.76	83	230847	10.191	ug/l	99
45) 4-Methyl-2-Pentanone	7.46	43	550527	52.825	ug/l #	93
46) t-1,4-Dichloro-2-butene	10.51	75	109318m	21.611	ug/l	
47) Methyl methacrylate	6.62	69	166155	21.242	ug/l #	80
48) Ethyl methacrylate	8.02	69	179349	10.688	ug/l	85
49) Toluene	7.63	92	422980	10.307	ug/l	98
50) t-1,3-Dichloropropene	7.88	75	234256	10.549	ug/l	96
51) cis-1,3-Dichloropropene	7.27	75	273041	10.351	ug/l	91
52) 1,1,2-Trichloroethane	8.06	97	121739	10.343	ug/l	99
53) 1,3-Dichloropropane	8.24	76	214013	10.351	ug/l	99
54) 2-Hexanone	8.36	43	397043	54.351	ug/l	91
55) Dibromochloromethane	8.48	129	173339	10.361	ug/l	98
56) 1,2-Dibromoethane	8.58	107	122102	10.112	ug/l	99
58) Tetrachloroethene	8.22	164	177200	10.348	ug/l	97
59) Chlorobenzene	9.12	112	477720	10.334	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.21	131	176144	10.312	ug/l	97
61) Pentachloroethane	11.10	117	137901	10.416	ug/l	89
62) Hexachloroethane	12.14	117	152312	10.541	ug/l	100
63) Ethyl Benzene	9.25	91	831979	10.363	ug/l	96
64) m/p-Xylenes	9.37	106	653062	20.931	ug/l	90
65) o-Xylene	9.78	106	322897	10.544	ug/l	89
66) Styrene	9.79	104	538755	10.553	ug/l	95
67) Bromoform	9.95	173	109993	10.569	ug/l	99
69) Isopropylbenzene	10.16	105	857586	10.481	ug/l	96
70) 1,1,2,2-Tetrachloroethane	10.46	83	158495	10.507	ug/l	98
71) 1,2,3-Trichloropropane	10.49	75	113077m	10.712	ug/l	
72) Bromobenzene	10.45	156	210378	10.608	ug/l	88
73) n-propylbenzene	10.58	120	241189	10.583	ug/l	84
74) 2-Chlorotoluene	10.66	126	202215	10.420	ug/l	87
75) 1,3,5-Trimethylbenzene	10.77	105	737668	10.457	ug/l	97
76) 4-Chlorotoluene	10.77	126	212710	10.561	ug/l	83
77) tert-Butylbenzene	11.10	119	731173	10.486	ug/l	94
78) 1,2,4-Trimethylbenzene	11.15	105	755674	10.581	ug/l	96
79) sec-Butylbenzene	11.32	105	967084	10.600	ug/l	97
80) Nitrobenzene	12.86	77	43218	64.876	ug/l	98
81) p-Isopropyltoluene	11.47	119	825587	10.676	ug/l	96
82) 1,3-Dichlorobenzene	11.41	146	412348	10.598	ug/l	97
83) 1,4-Dichlorobenzene	11.50	146	412995	10.658	ug/l	97
84) n-Butylbenzene	11.89	91	771255	10.868	ug/l	97
85) 1,2-Dichlorobenzene	11.88	146	391177	10.633	ug/l	98
86) 1,2-Dibromo-3-Chloropropan	12.65	75	29241	10.386	ug/l #	76
87) 1,2,4-Trichlorobenzene	13.50	180	286412	11.084	ug/l	99
88) Hexachlorobutadiene	13.69	225	158901	10.618	ug/l	99
89) Naphthalene	13.74	128	501127	11.435	ug/l	99
90) 1,2,3-Trichlorobenzene	13.98	180	256448	10.859	ug/l	97

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tot Ion:	96	Resp:	57973
Ion	Ratio	Lower	Upper
96	100		
70	19.1	16.2	24.2
95	8.3	7.4	11.2
97	0.0	0.0	0.0

Instrument :

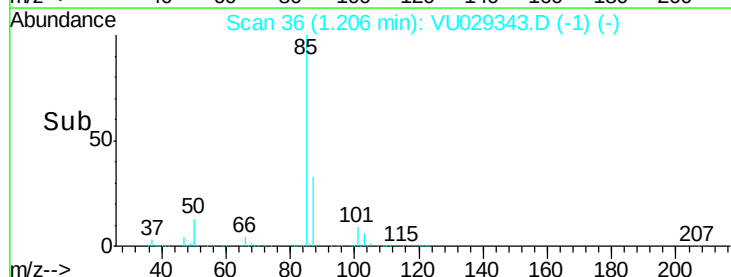
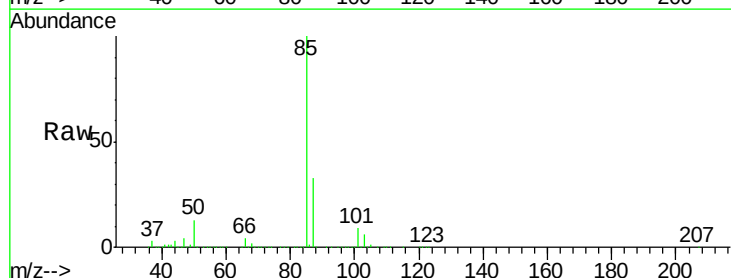
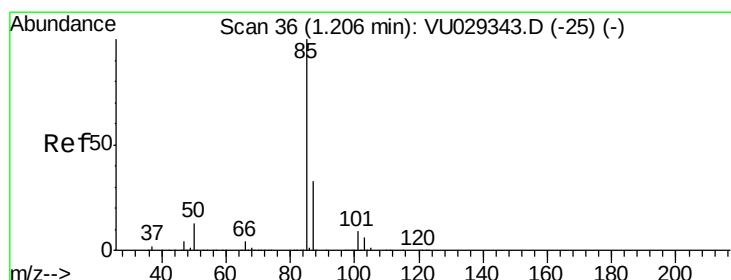
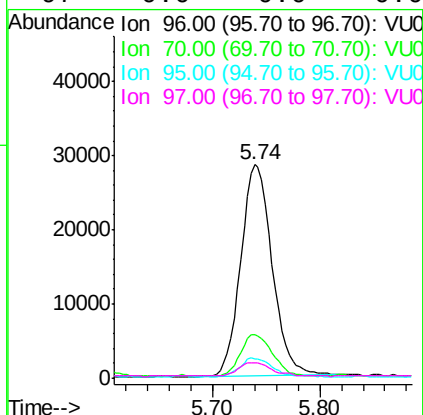
MSVOA_U

ClientSampleId :

VSTDICCC010

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#2

Dichlorodifluoromethane

Concen: 9.917 ug/l

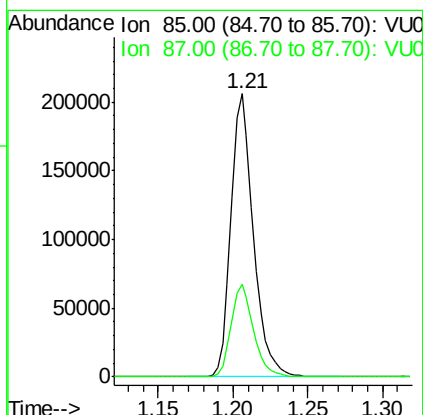
RT: 1.21 min Scan# 36

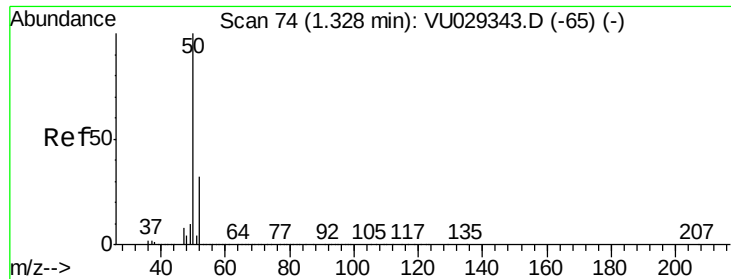
Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tgt Ion:	85	Resp:	214548
Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.9	47.6





#3

Chloromethane

Concen: 9.574 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 50 Resp: 189274

Ion Ratio Lower Upper

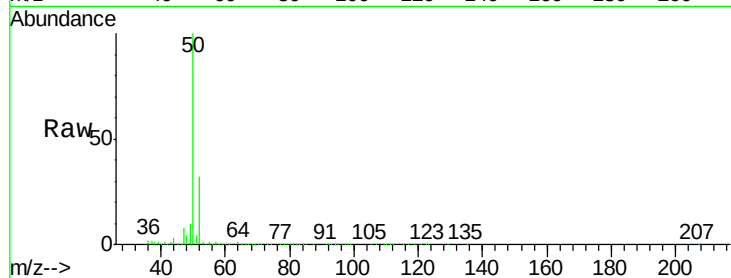
50 100

52 32.3 27.3 40.9

Manual Integrations
APPROVED

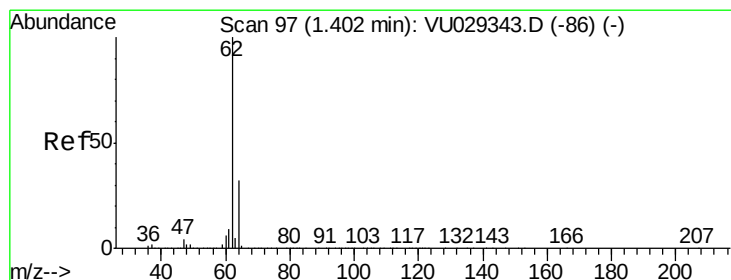
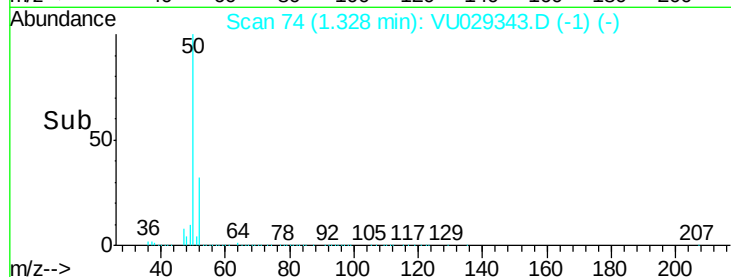
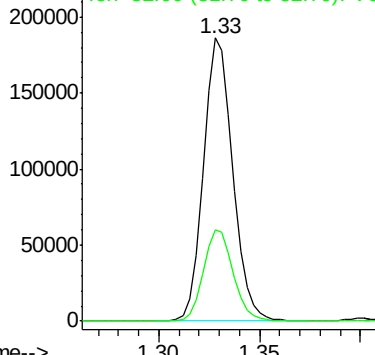
sam

2/8/2019 2:26:24 PM



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 10.089 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029343.D

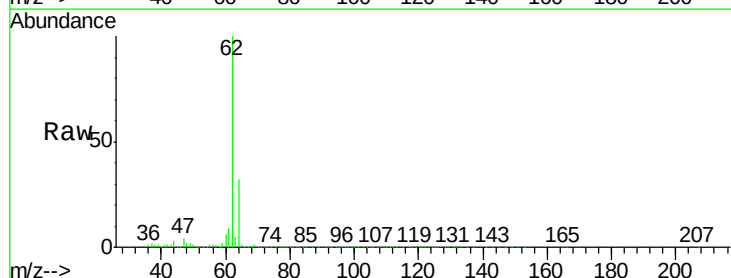
Acq: 05 Feb 2019 12:36

Tgt Ion: 62 Resp: 233839

Ion Ratio Lower Upper

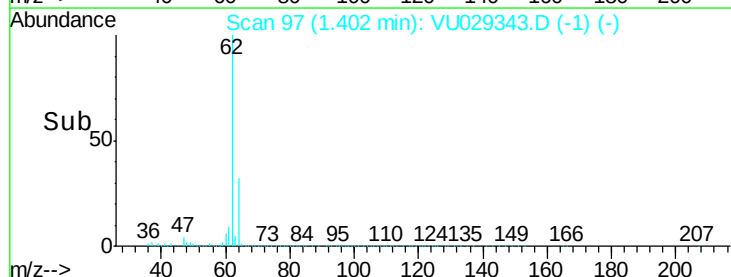
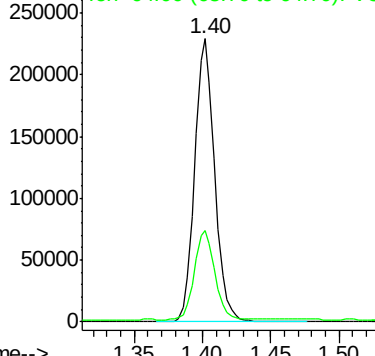
62 100

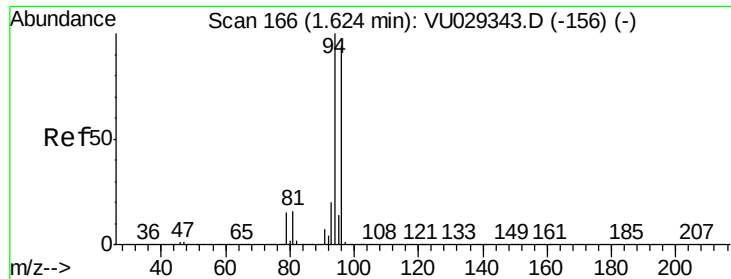
64 31.6 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 9.073 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 94 Resp: 116976

Ion Ratio Lower Upper

94 100

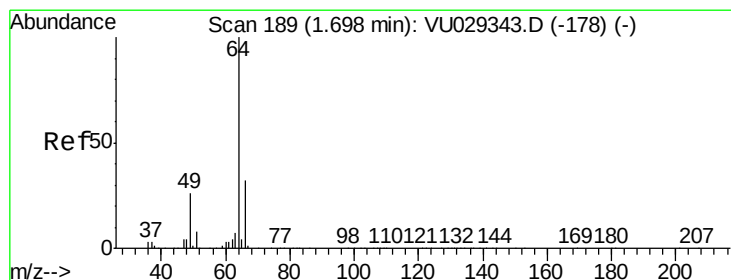
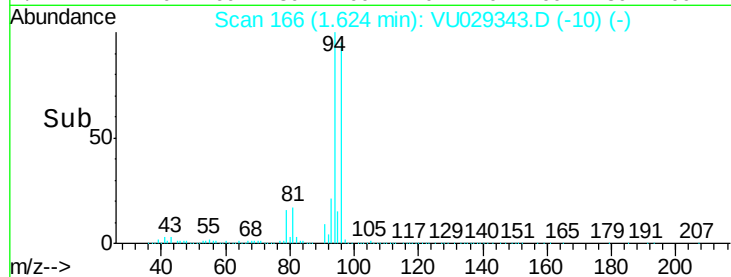
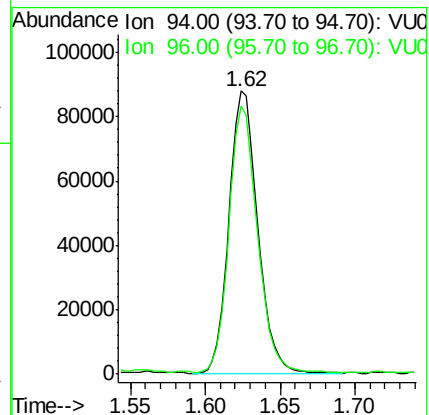
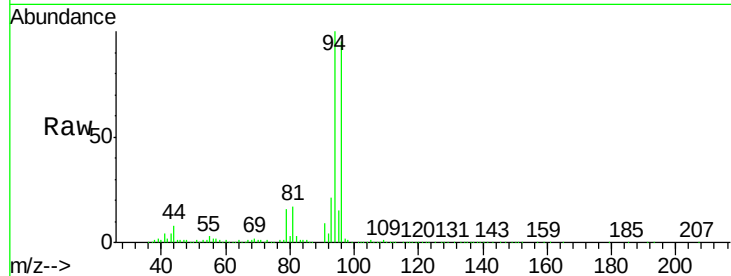
96 94.5 71.7 107.5

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



#6

Chloroethane

Concen: 9.902 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029343.D

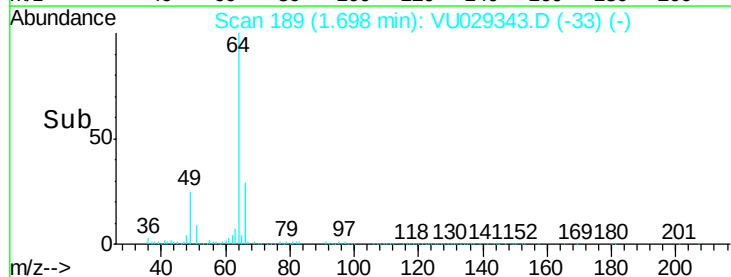
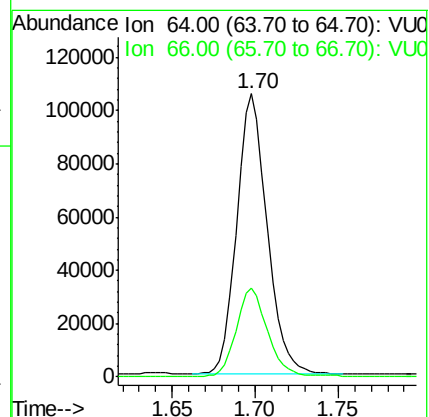
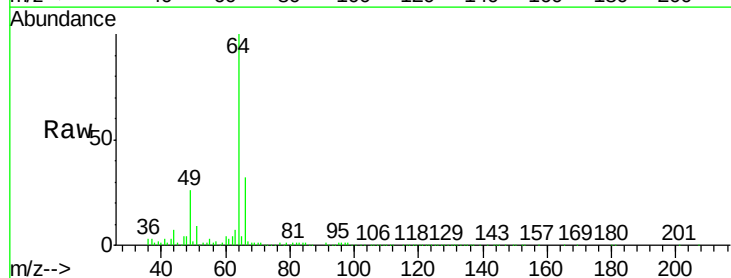
Acq: 05 Feb 2019 12:36

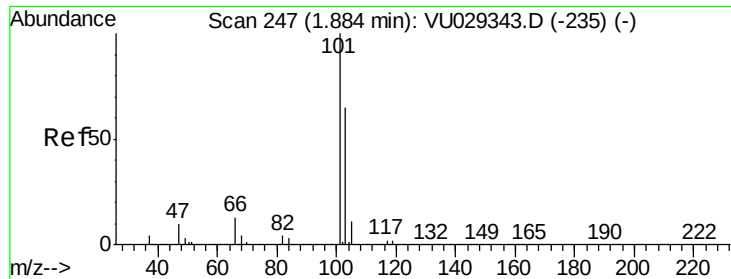
Tgt Ion: 64 Resp: 134077

Ion Ratio Lower Upper

64 100

66 31.7 26.3 39.5





#7

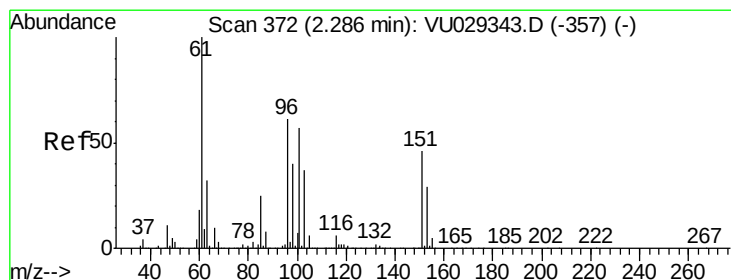
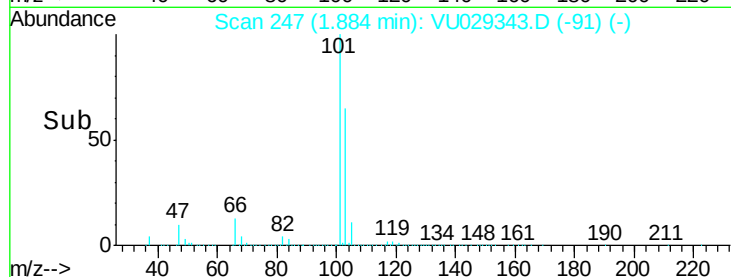
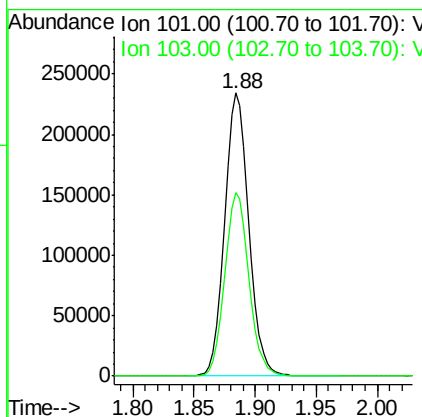
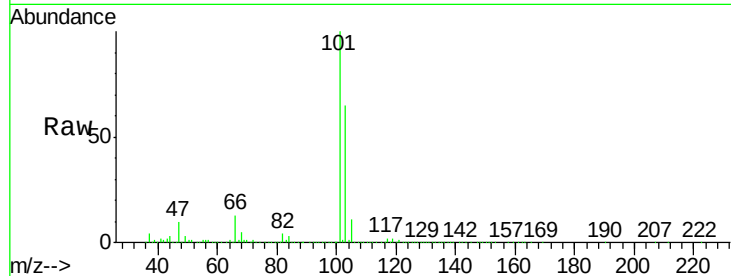
Trichlorofluoromethane
Concen: 10.110 ug/l
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	53.9	80.9

Manual Integrations
APPROVED

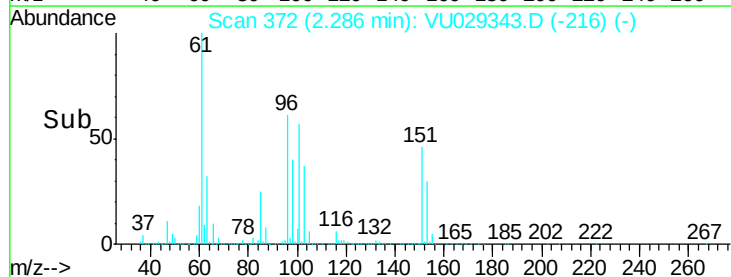
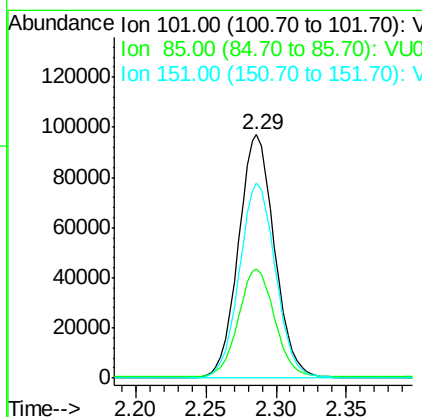
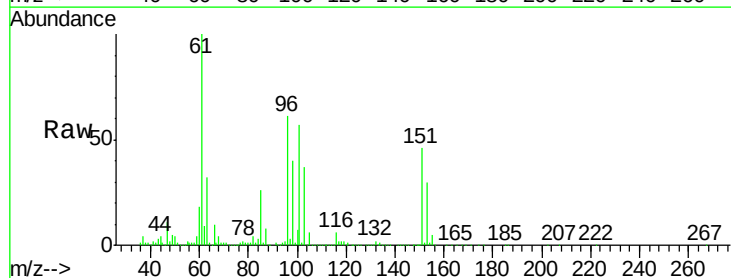
sam
2/8/2019 2:26:24 PM

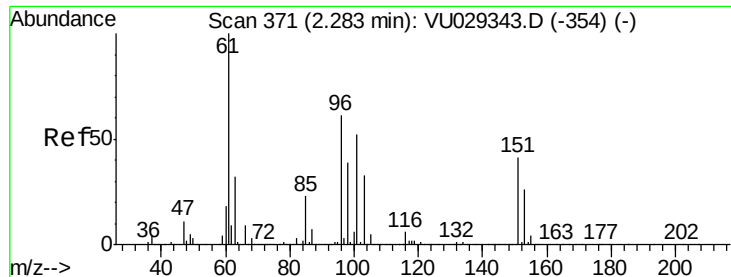


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 10.126 ug/l
RT: 2.29 min Scan# 372
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
101	100		
85	44.3	40.3	60.5
151	80.7	58.1	87.1





#9

1,1-Dichloroethene

Concen: 10.020 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

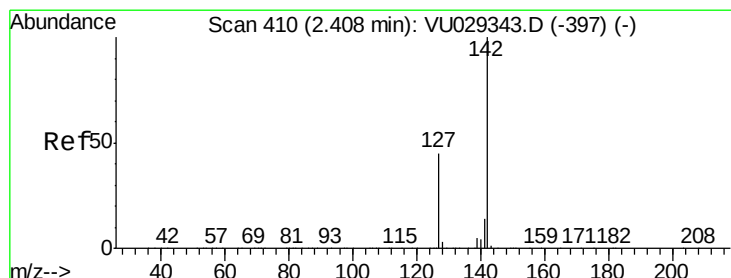
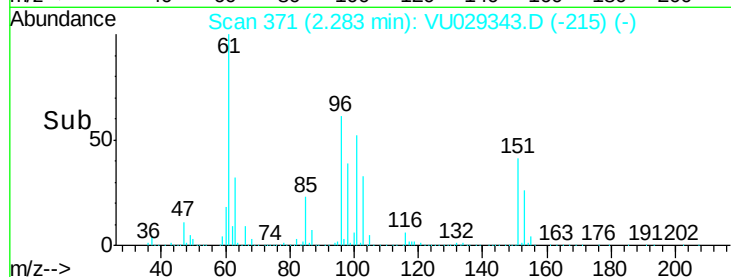
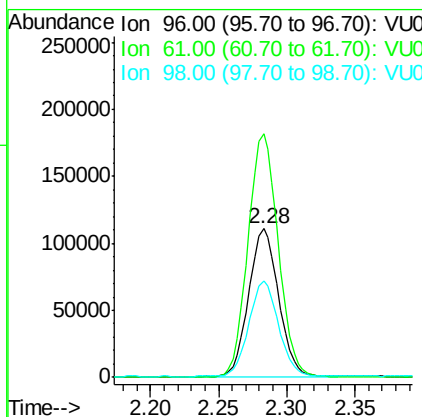
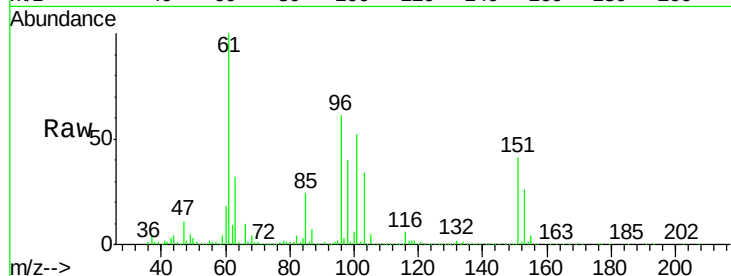
ClientSampleId :

VSTDICCC010

Tot Ion:	96	Resp:	167570
Ion Ratio	Lower	Upper	
96	100		
61	164.7	0.0	641.4
98	65.0	0.0	122.6

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#10

Iodomethane

Concen: 11.739 ug/l

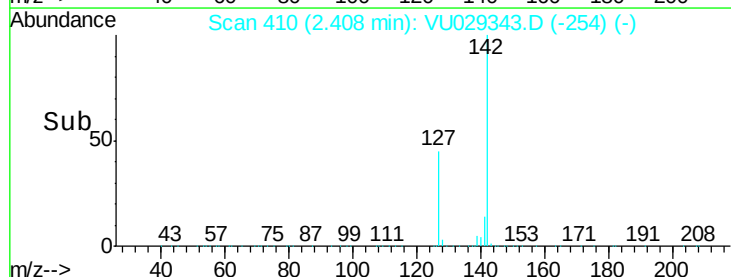
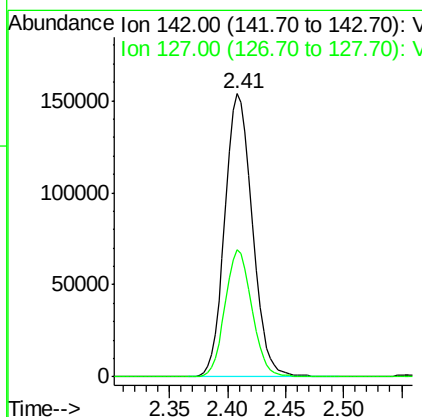
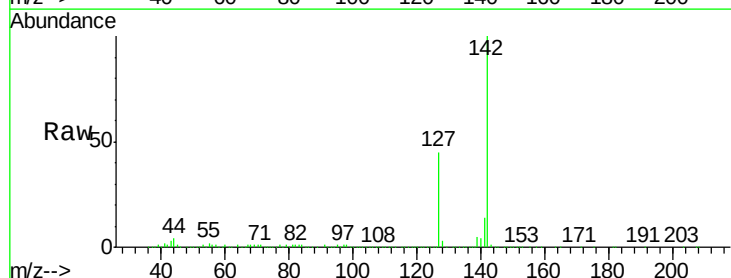
RT: 2.41 min Scan# 410

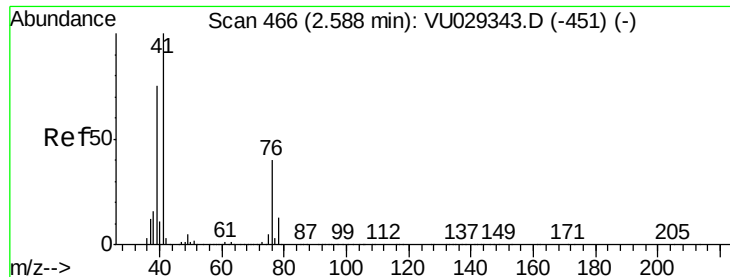
Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tgt Ion:	142	Resp:	251858
Ion Ratio	Lower	Upper	
142	100		
127	44.1	47.6	71.4#





#11

Allvl Chloride

Concen: 10.153 ug/l

RT: 2.59 min Scan# 466

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 284730

Ion Ratio Lower Upper

41 100

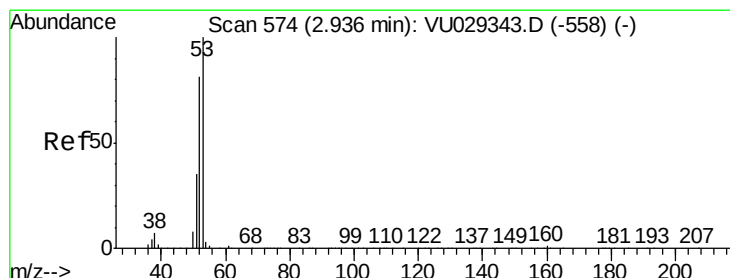
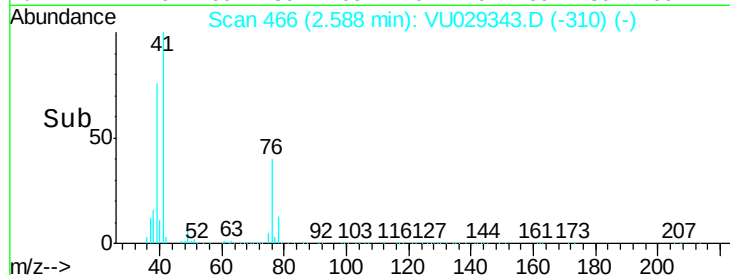
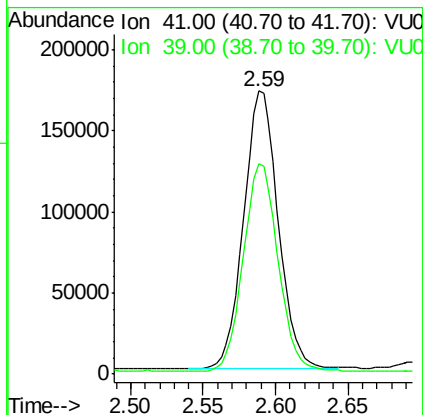
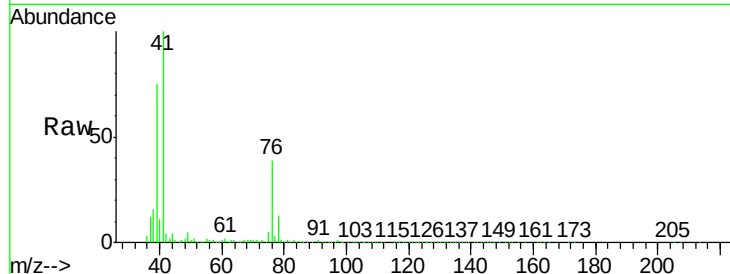
39 75.0 67.2 100.8

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



#12

Acrylonitrile

Concen: 19.896 ug/l

RT: 2.94 min Scan# 574

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

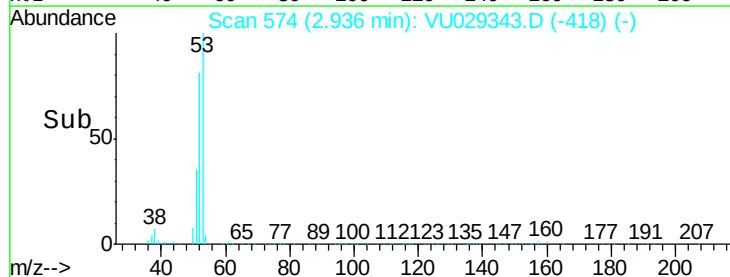
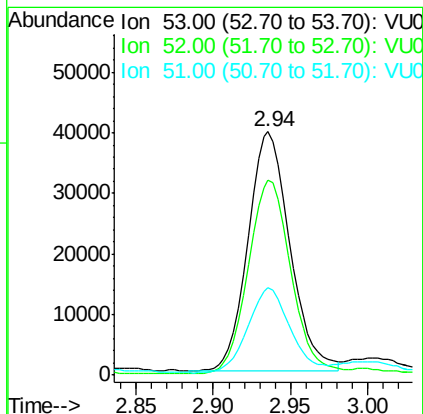
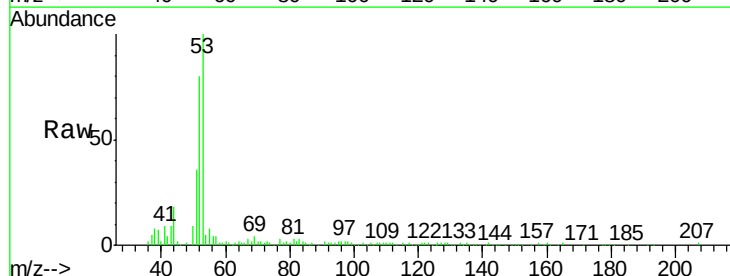
Tgt Ion: 53 Resp: 74577

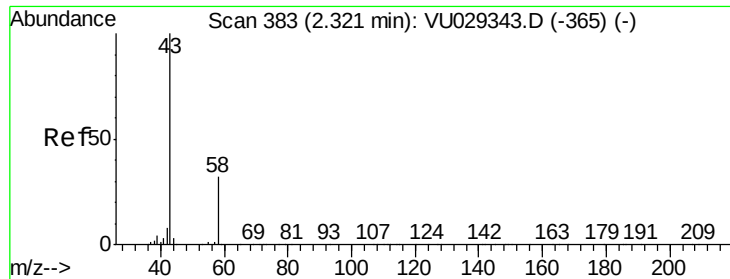
Ion Ratio Lower Upper

53 100

52 82.5 67.6 101.4

51 36.2 31.0 46.4





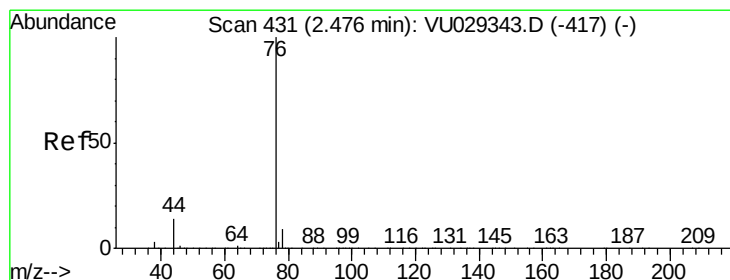
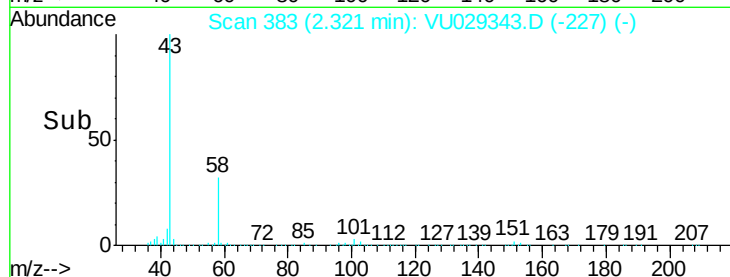
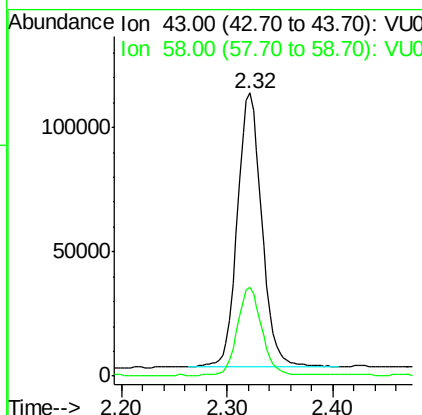
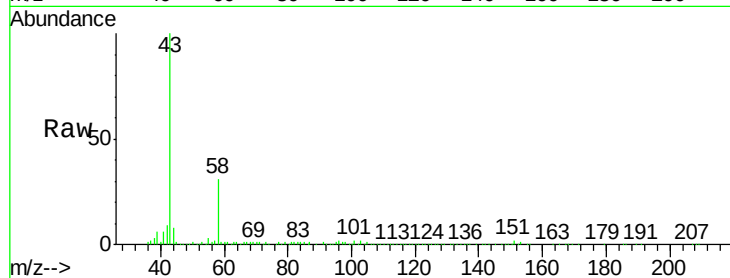
#13
Acetone
Concen: 49.196 ug/l
RT: 2.32 min Scan# 383
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	31.9	19.2	28.8#

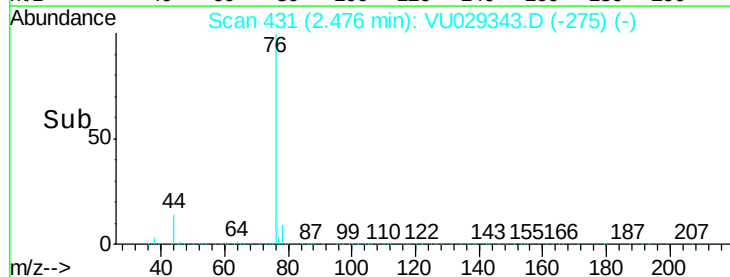
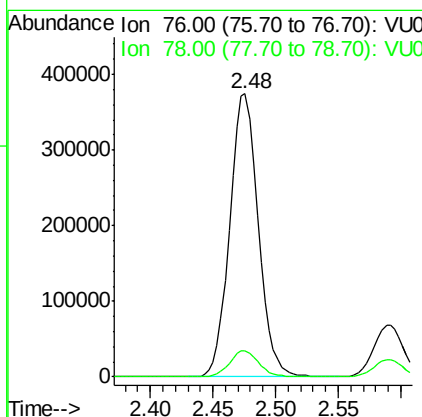
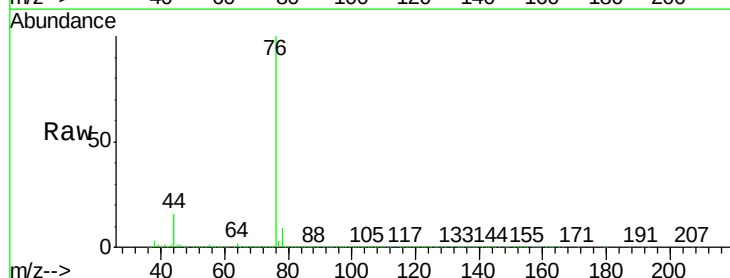
Manual Integrations
APPROVED

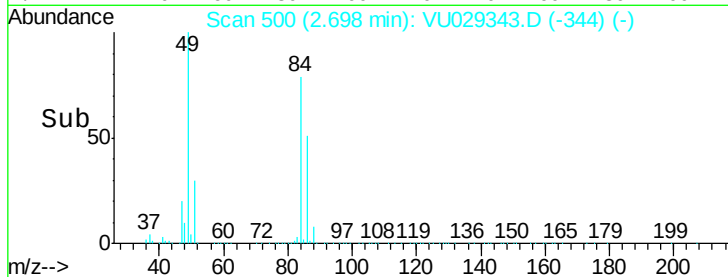
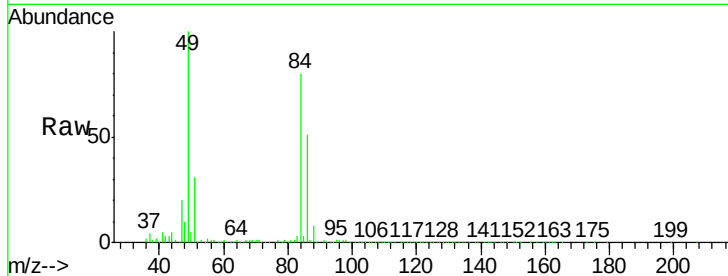
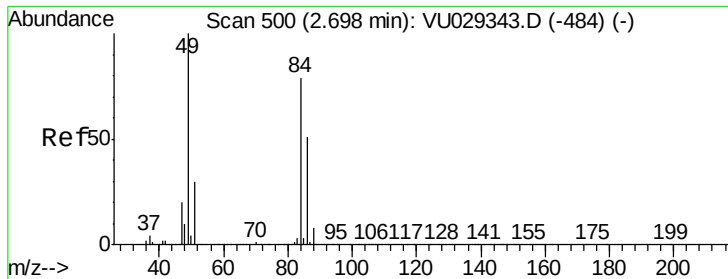
sam
2/8/2019 2:26:24 PM



#14
Carbon Disulfide
Concen: 10.019 ug/l
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7





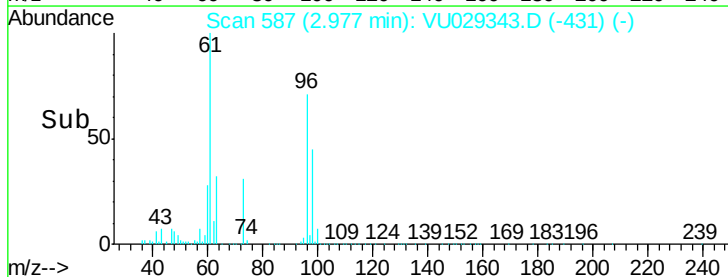
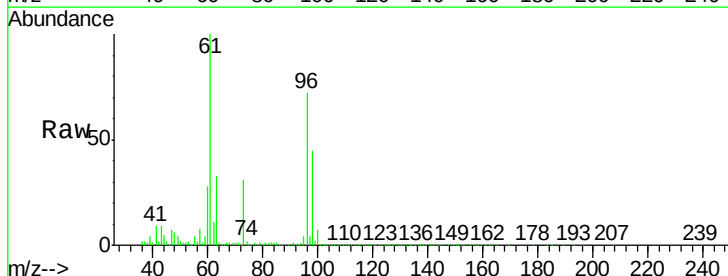
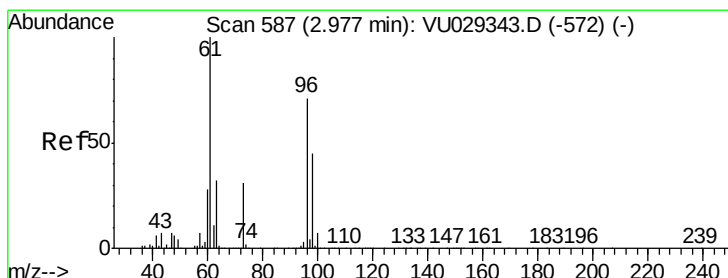
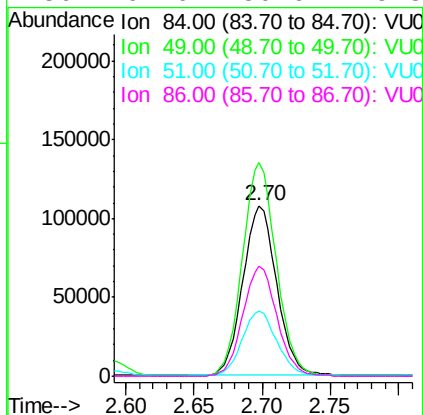
#15
Methylene Chloride
Concen: 9.140 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tot Ion	Ratio	Lower	Upper
84	100		
49	126.1	127.0	190.6#
51	38.2	0.0	93.4
86	64.6	50.6	75.8

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

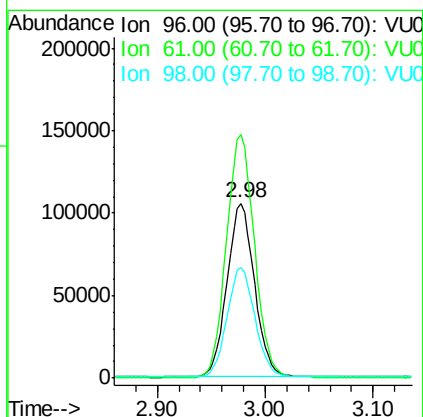
Manual Integrations
APPROVED

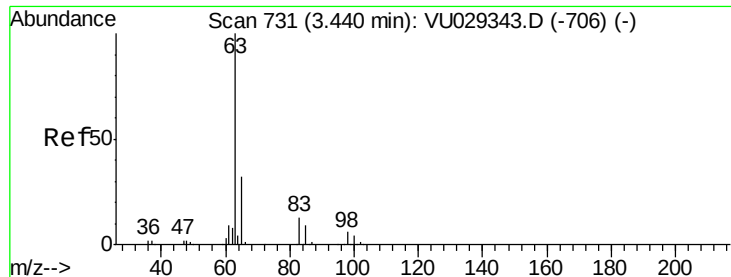
sam
2/8/2019 2:26:24 PM



#16
trans-1,2-Dichloroethene
Concen: 10.005 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	140.0	140.6	210.8#
98	62.7	49.3	73.9





#17

1,1-Dichloroethane

Concen: 9.830 ug/l

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

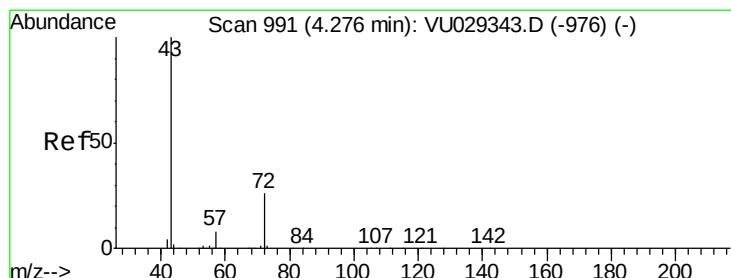
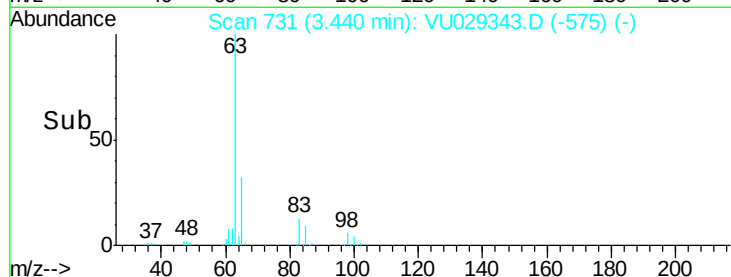
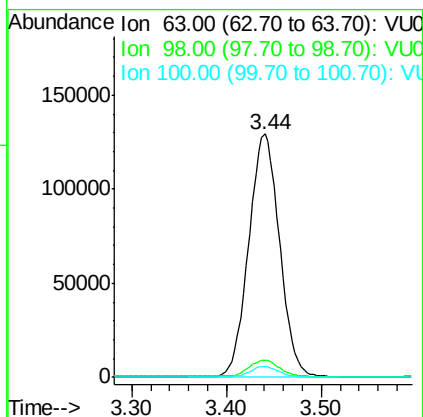
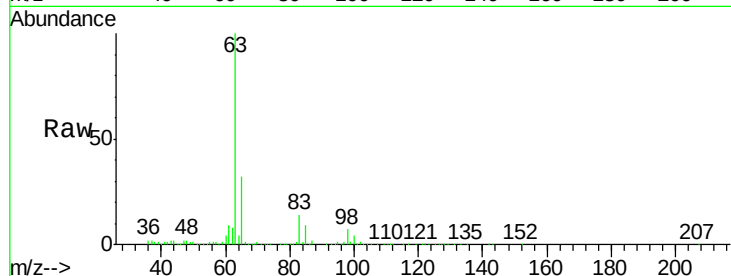
ClientSampleId :

VSTDICCC010

Tot Ion:	63	Resp:	291319
Ion Ratio	Lower	Upper	
63	100		
98	6.5	2.9	8.8
100	4.4	1.7	5.1

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#18

2-Butanone

Concen: 54.523 ug/l

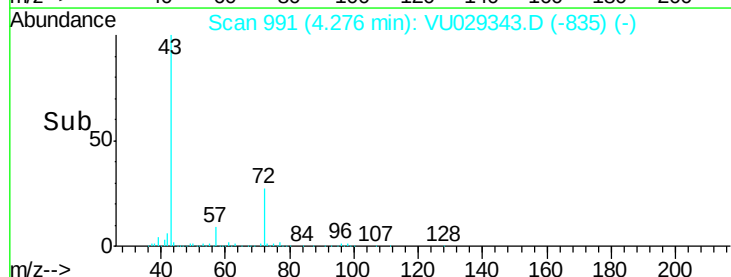
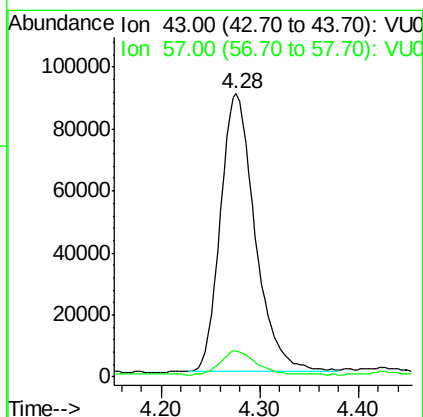
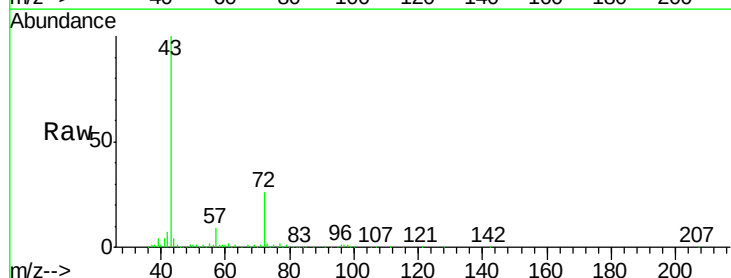
RT: 4.28 min Scan# 991

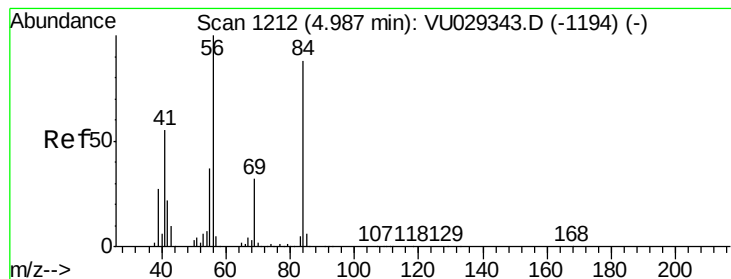
Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tgt Ion:	43	Resp:	220138
Ion Ratio	Lower	Upper	
43	100		
57	8.5	0.0	15.8





#19

Cyclohexane

Concen: 9.940 ug/l m

RT: 4.99 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

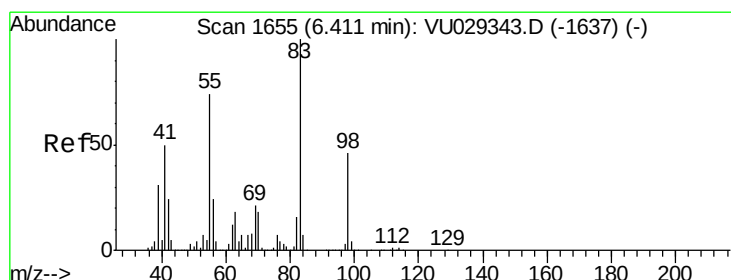
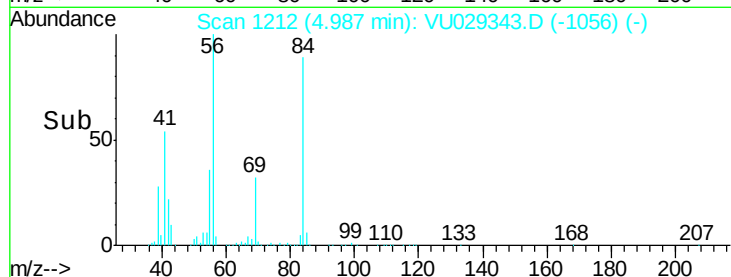
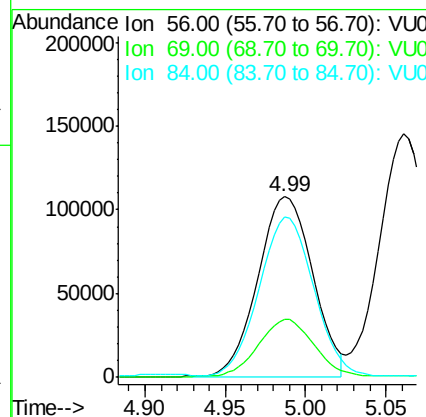
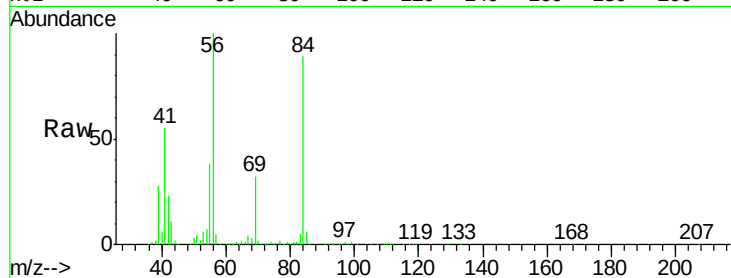
ClientSampleId :

VSTDICCC010

Tot Ion:	56	Resp:	259676
Ion	Ratio	Lower	Upper
56	100		
69	31.4	26.8	40.2
84	87.1	71.5	107.3

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#20

Methylcyclohexane

Concen: 10.245 ug/l

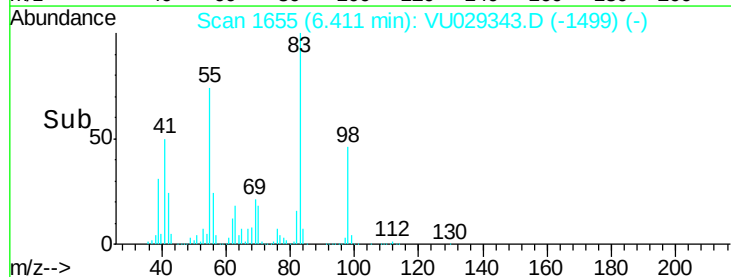
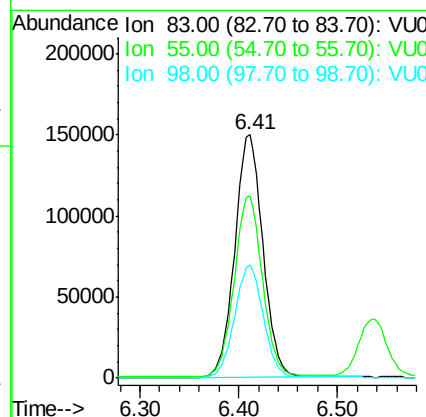
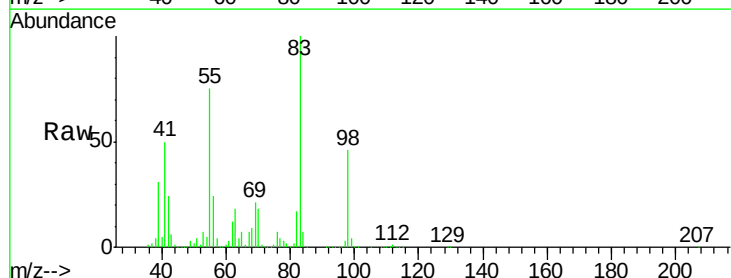
RT: 6.41 min Scan# 1655

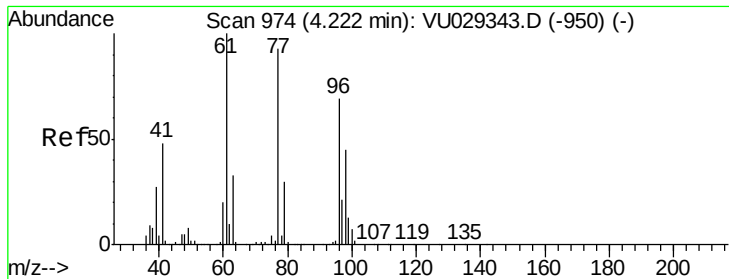
Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tgt Ion:	83	Resp:	295666
Ion	Ratio	Lower	Upper
83	100		
55	74.6	72.4	108.6
98	46.8	36.6	54.8





#21

2,2-Dichloropropane

Concen: 9.954 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampled :

VSTDICCC010

Tot Ion: 77 Resp: 273055

Ion Ratio Lower Upper

77 100

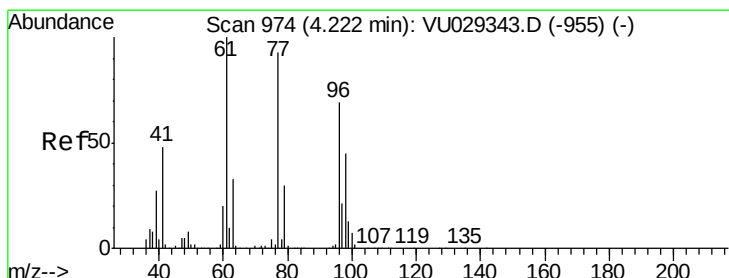
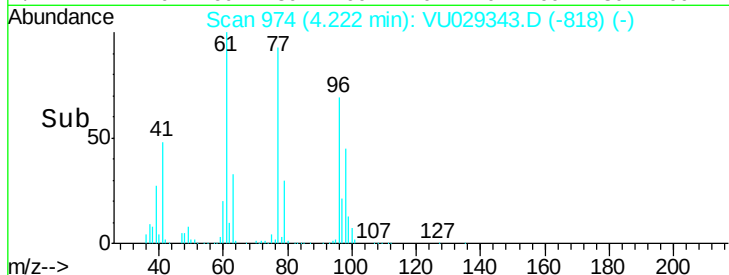
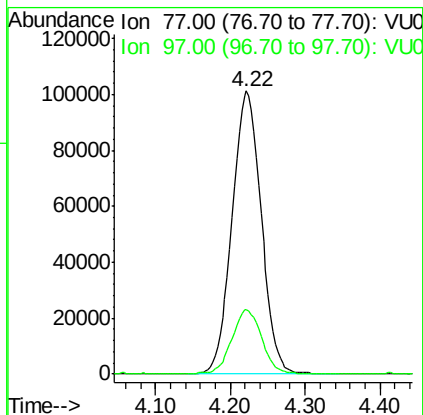
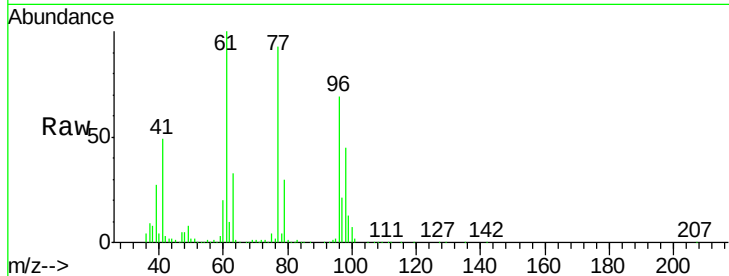
97 22.9 15.6 23.4

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



#22

cis-1,2-Dichloroethene

Concen: 10.173 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

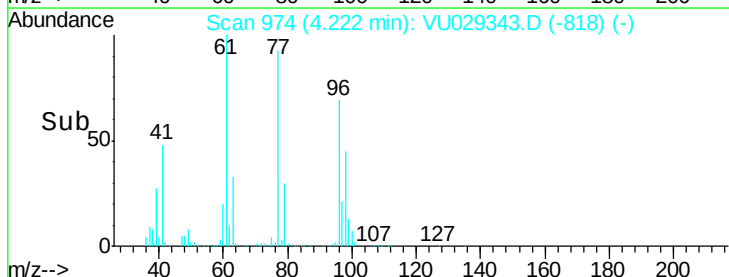
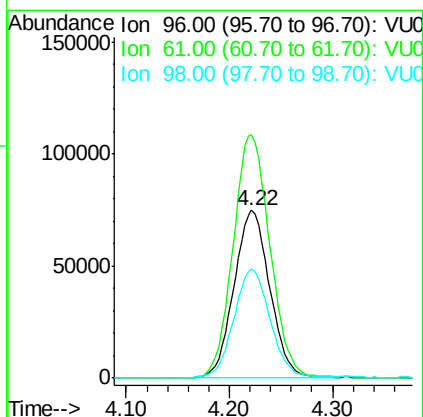
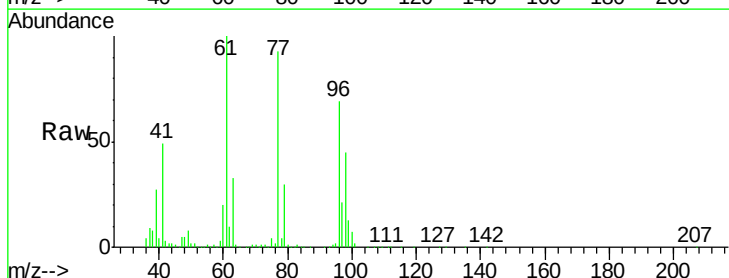
Tgt Ion: 96 Resp: 179224

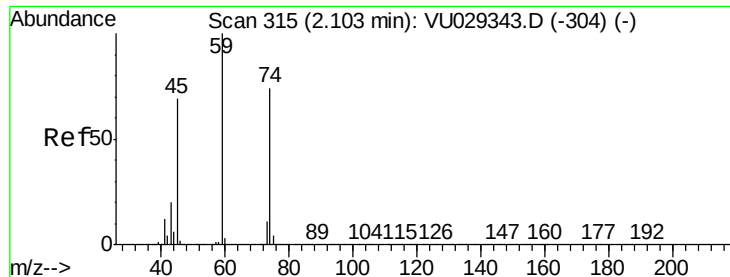
Ion Ratio Lower Upper

96 100

61 150.5 0.0 460.0

98 65.4 32.6 97.7





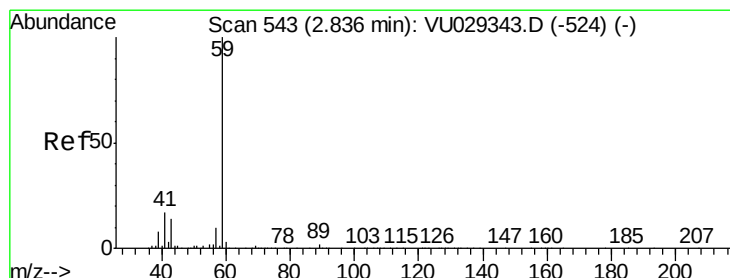
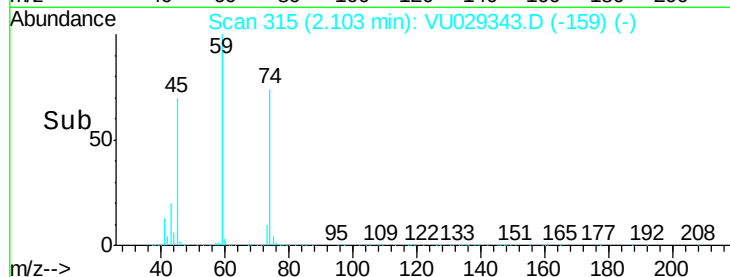
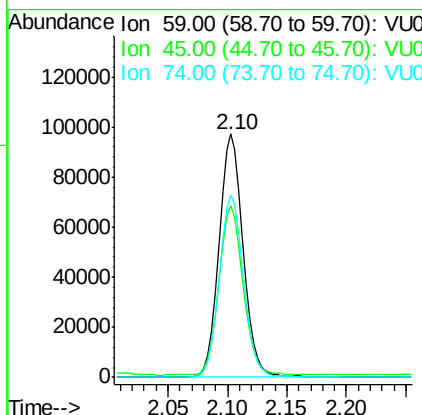
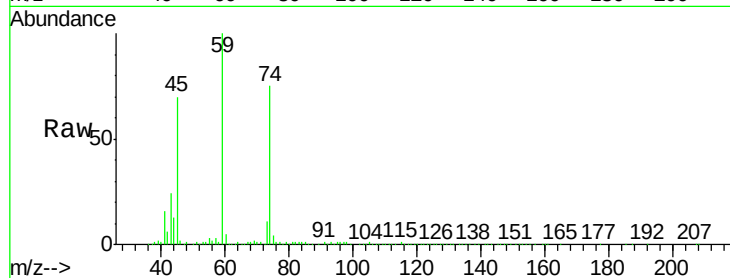
#23
Diethyl Ether
Concen: 10.036 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
59	100		
45	70.1	64.2	96.4
74	75.9	55.3	82.9

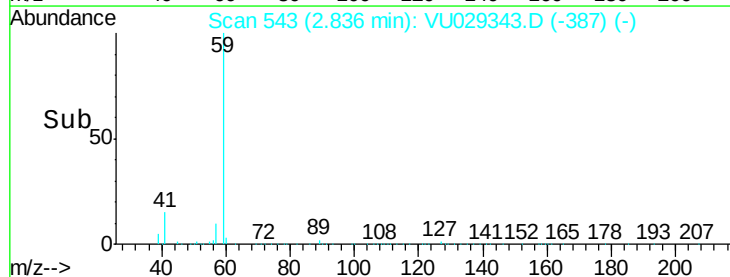
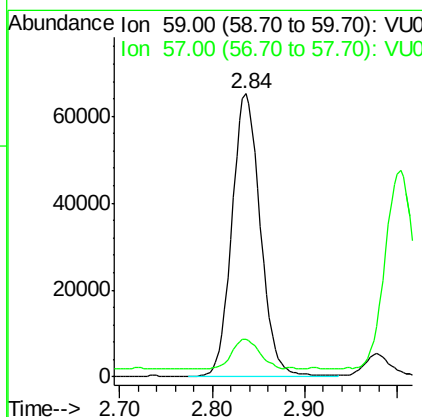
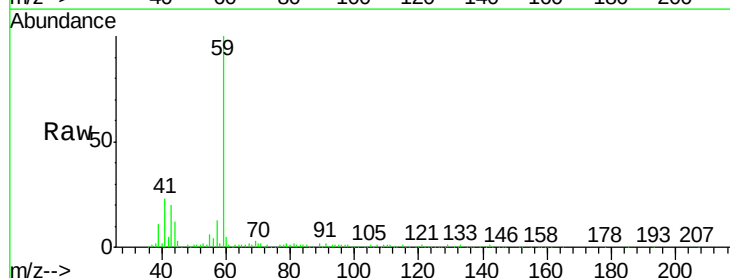
Manual Integrations
APPROVED

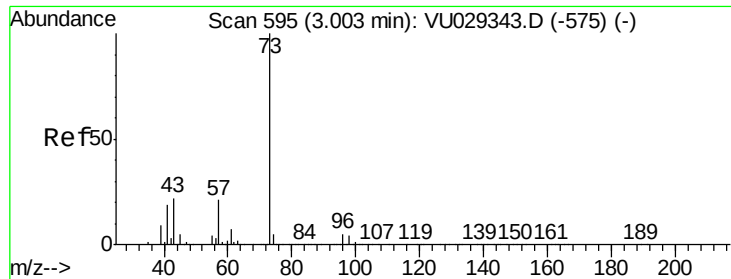
sam
2/8/2019 2:26:24 PM



#24
tert-Butyl Alcohol
Concen: 98.768 ug/l
RT: 2.84 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.8	13.2





#25

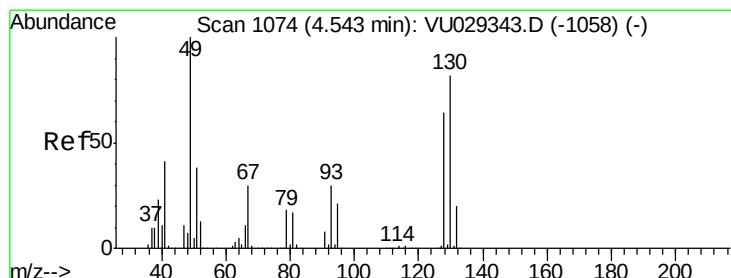
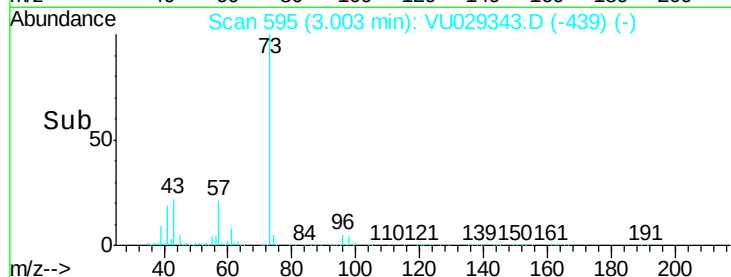
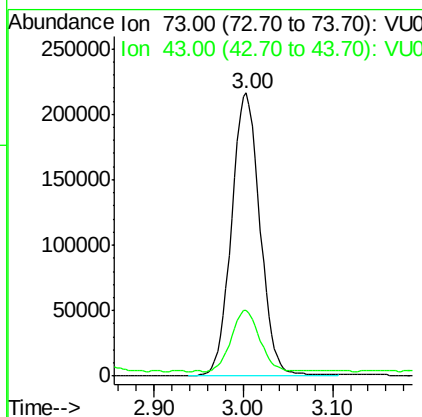
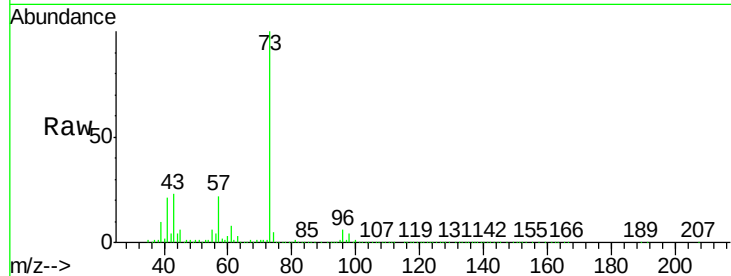
Methyl tert-Butyl Ether
 Concen: 10.115 ug/l
 RT: 3.00 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.2	22.1	33.1#

Manual Integrations
 APPROVED

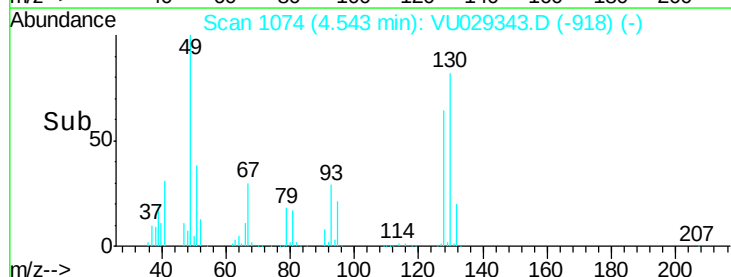
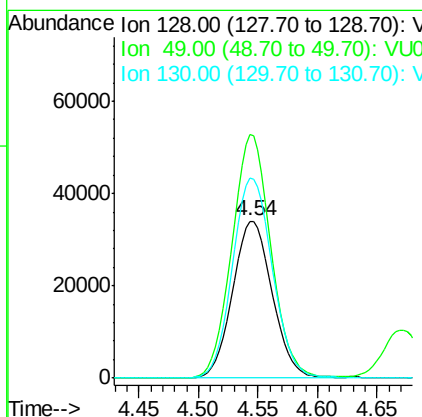
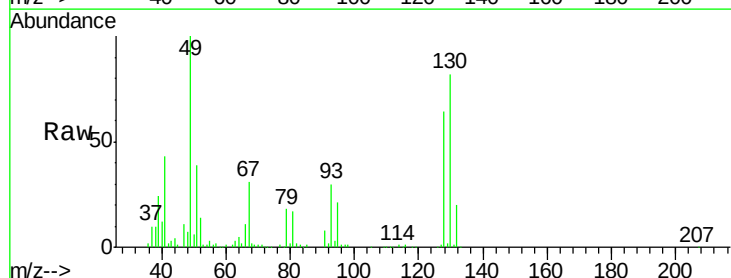
sam
 2/8/2019 2:26:24 PM

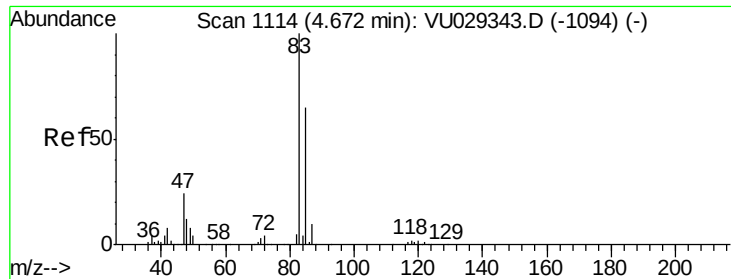


#26

Bromochloromethane
 Concen: 10.070 ug/l
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
128	100		
49	152.7	0.0	401.6
130	129.3	108.0	162.0





#27

Chloroform

Concen: 10.205 ug/l

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 294126

Ion Ratio Lower Upper

83 100

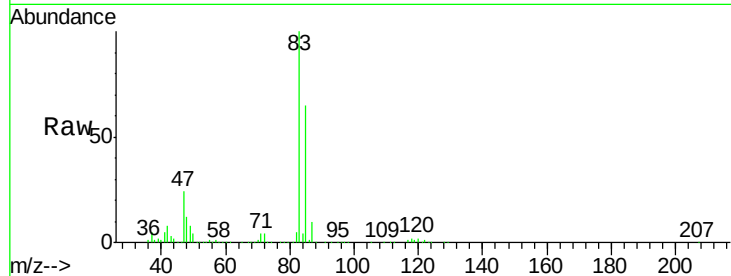
85 64.7 0.0 126.6

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

150000

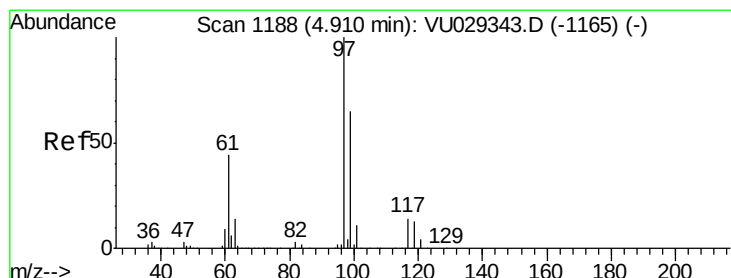
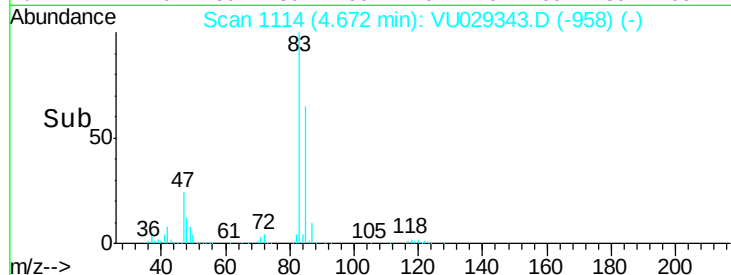
100000

50000

0

4.60 4.70 4.80

Time-->



#28

1,1,1-Trichloroethane

Concen: 10.222 ug/l

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

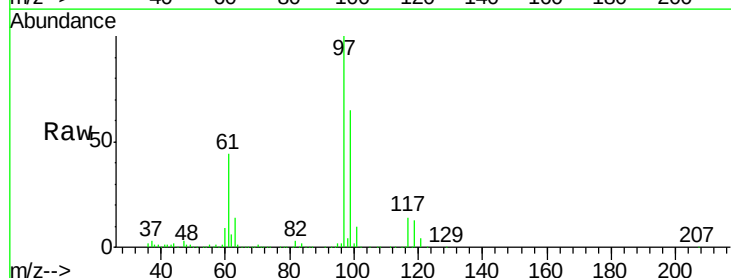
Tgt Ion: 97 Resp: 273064

Ion Ratio Lower Upper

97 100

99 64.2 32.4 97.2

61 43.4 24.4 73.2



Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

150000

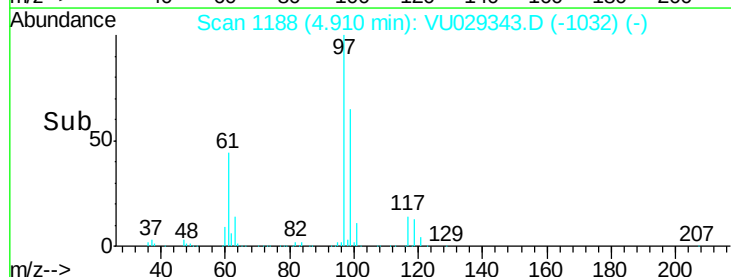
100000

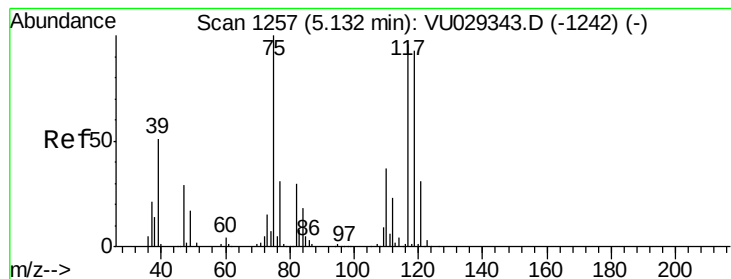
50000

0

4.80 4.90 5.00

Time-->





#29

1,1-Dichloropropene

Concen: 10.198 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

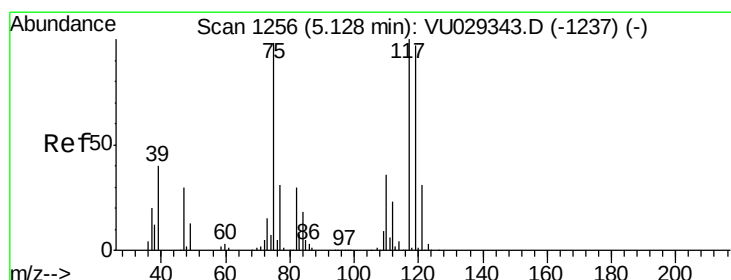
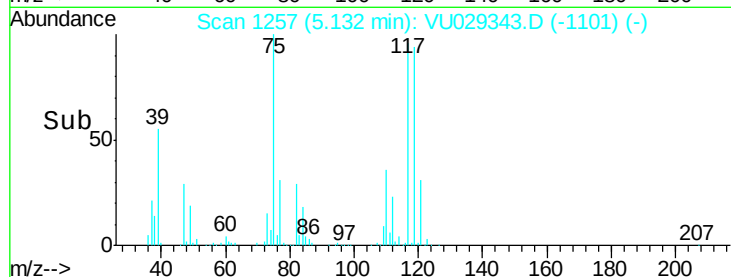
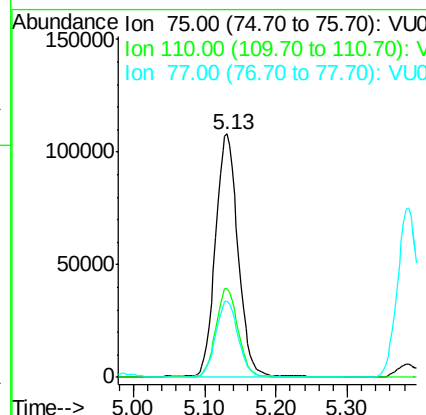
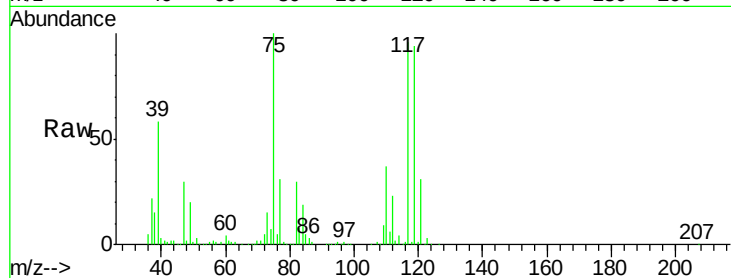
ClientSampleId :

VSTDICCC010

Tot Ion:	75	Resp:	236492
Ion Ratio	Lower	Upper	
75	100		
110	36.3	15.4	46.2
77	30.5	24.1	36.1

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#30

Carbon Tetrachloride

Concen: 10.293 ug/l

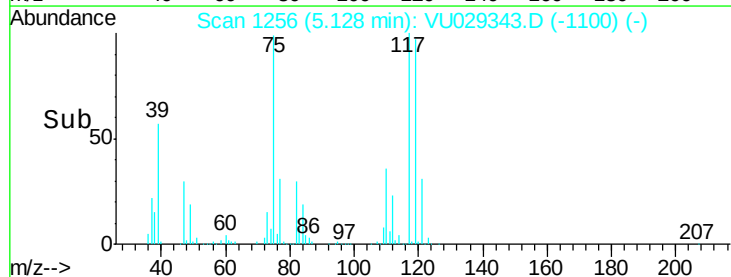
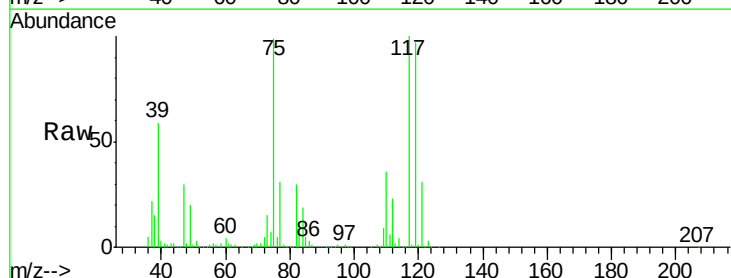
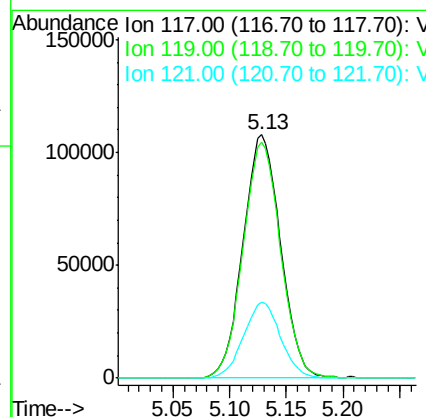
RT: 5.13 min Scan# 1256

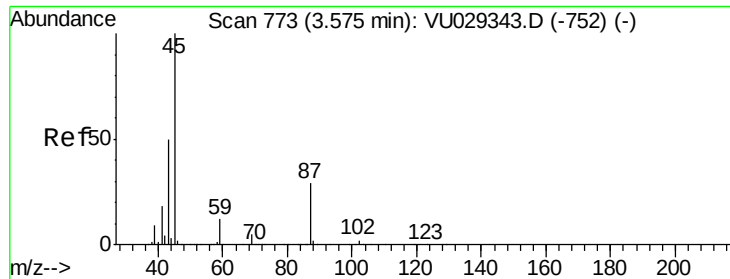
Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tgt Ion:	117	Resp:	248921
Ion Ratio	Lower	Upper	
117	100		
119	96.9	76.8	115.2
121	31.0	24.4	36.6





#31

Isopropyl Ether

Concen: 10.263 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 458960

Ion Ratio Lower Upper

45 100

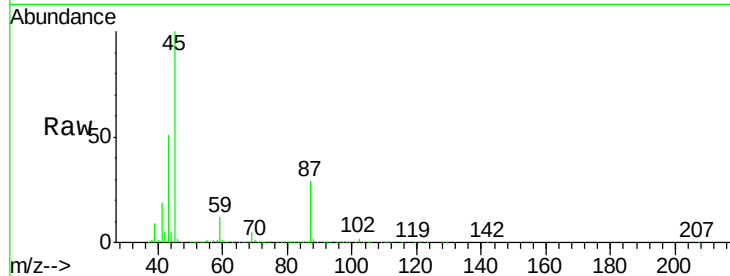
43 49.3 28.4 85.3

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

3.58

200000

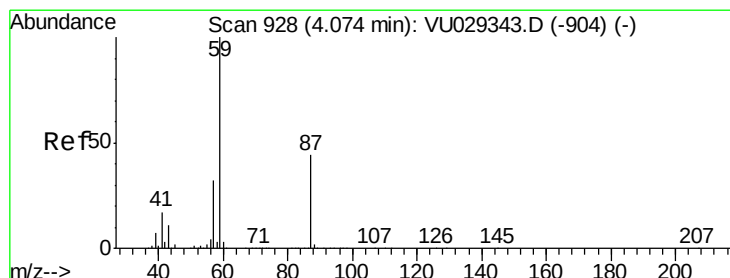
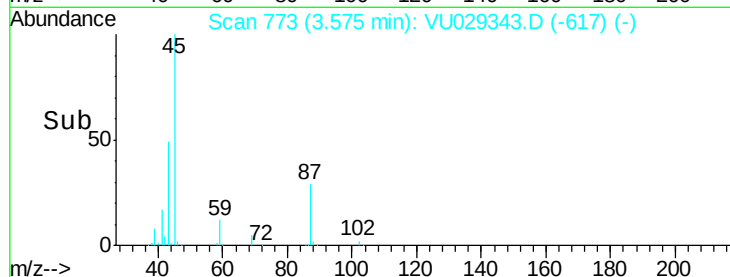
150000

100000

50000

0

Time-->



#32

Ethyl-t-butyl ether

Concen: 10.114 ug/l

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VU029343.D

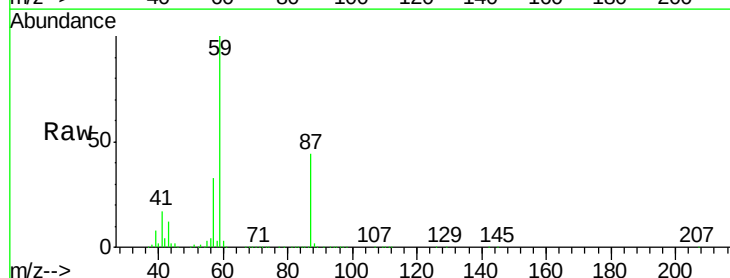
Acq: 05 Feb 2019 12:36

Tgt Ion: 59 Resp: 453232

Ion Ratio Lower Upper

59 100

87 43.7 31.1 46.7



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

4.07

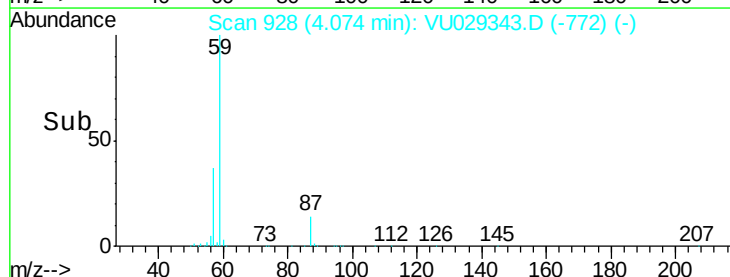
150000

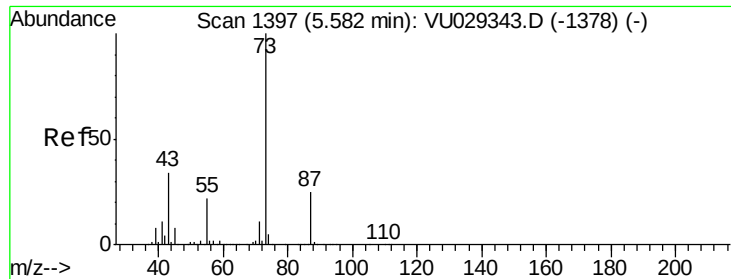
100000

50000

0

Time-->





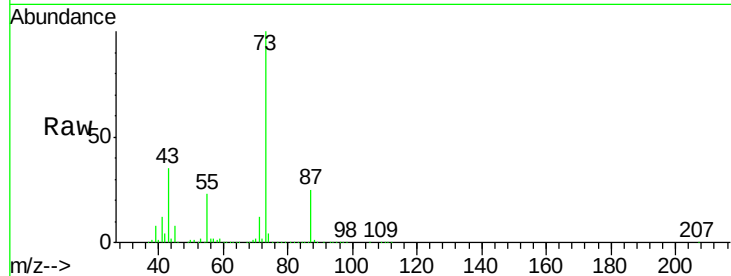
#33
Tert-Butyl methyl ether
Concen: 10.298 ug/l
RT: 5.58 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
73	100		
87	24.8	19.4	29.0
71	11.1	9.0	13.4

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM

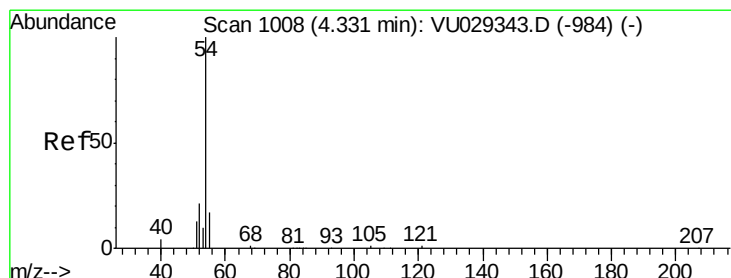
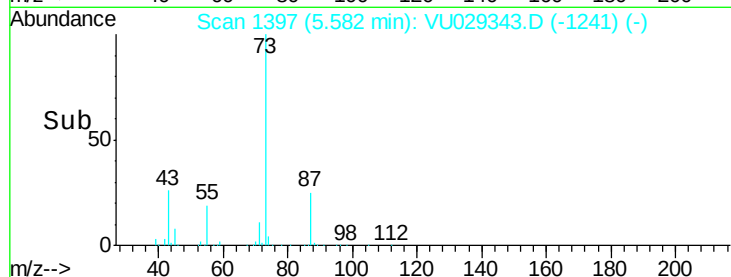
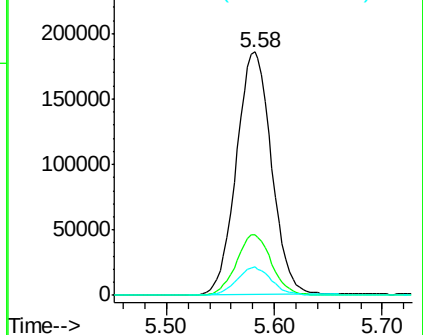


Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#34
Propionitrile
Concen: 58.414 ug/l
RT: 4.33 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
54	100		
52	20.2	18.9	28.3
55	14.8	15.1	22.7#
40	6.7	7.2	10.8#

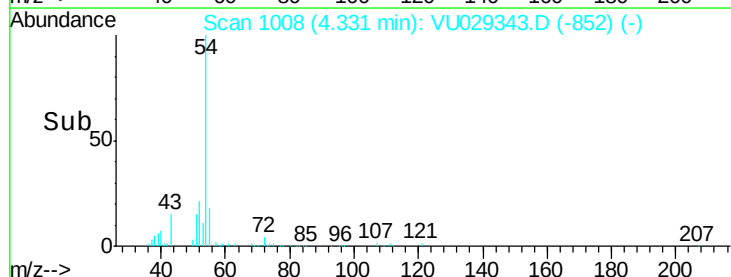
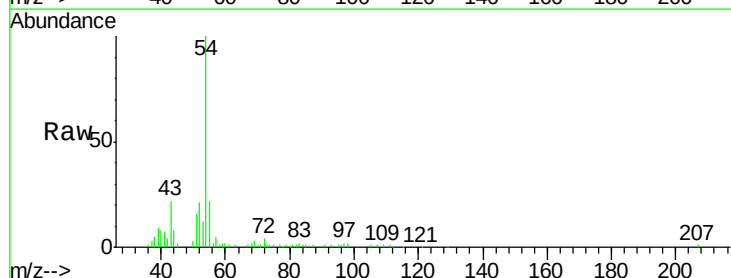
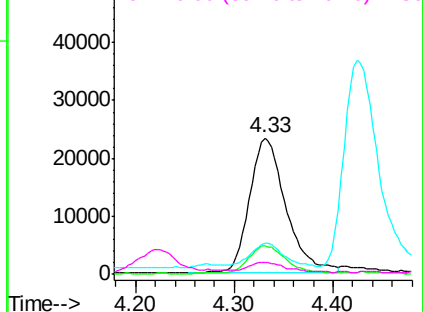
Abundance

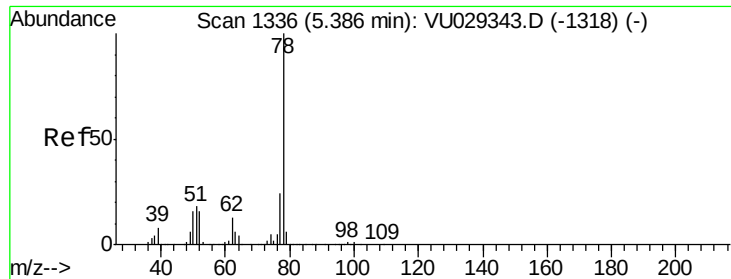
Ion 54.00 (53.70 to 54.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 40.00 (39.70 to 40.70): VU0





#35

Benzene

Concen: 10.239 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 78 Resp: 656639

Ion Ratio Lower Upper

78 100

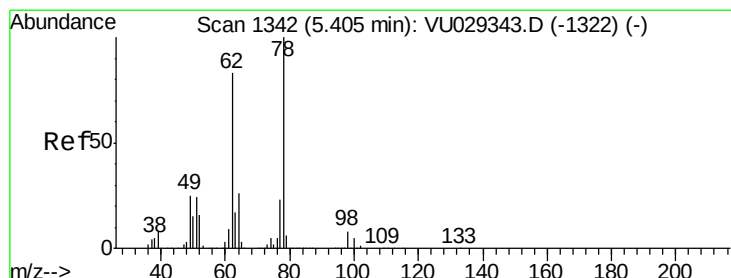
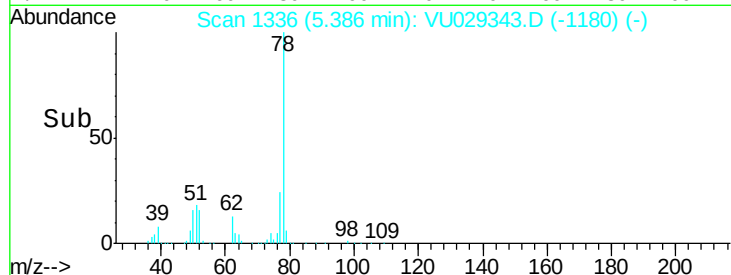
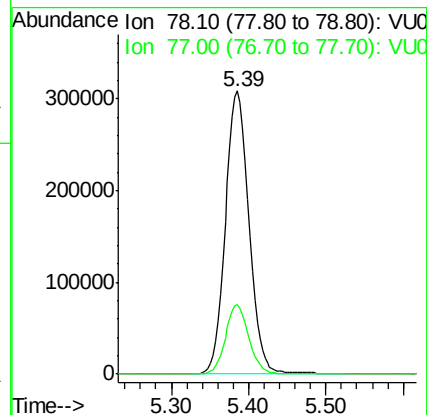
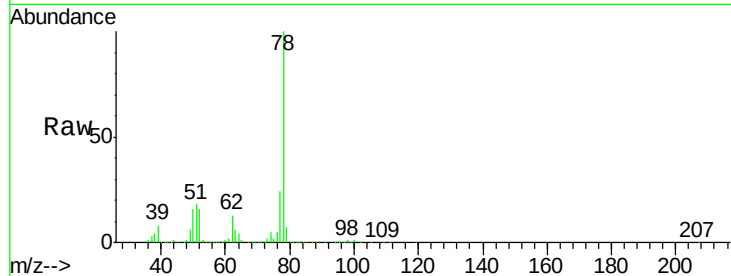
77 24.3 19.8 29.8

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



#36

1,2-Dichloroethane

Concen: 10.389 ug/l

RT: 5.40 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU029343.D

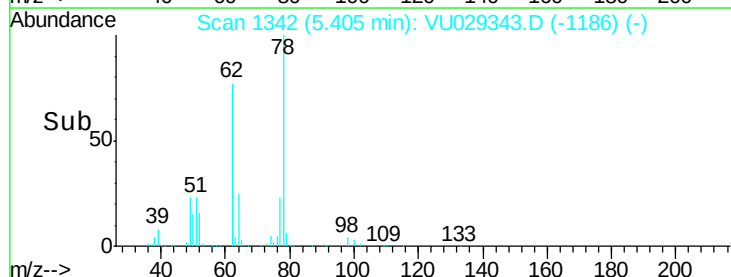
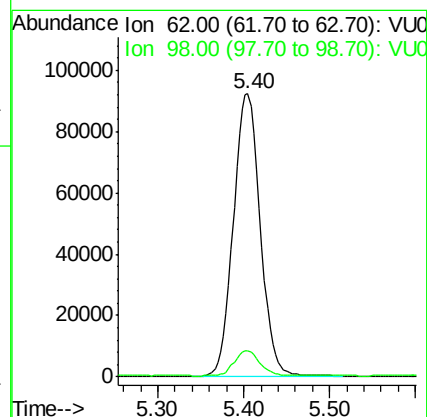
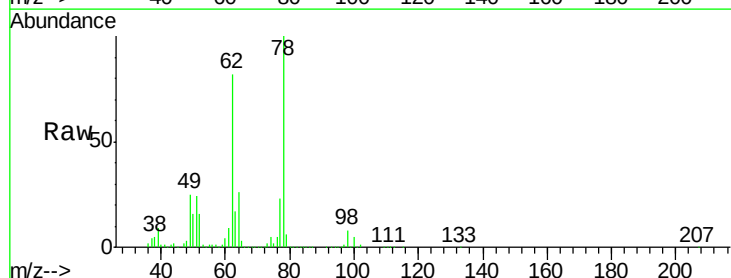
Acq: 05 Feb 2019 12:36

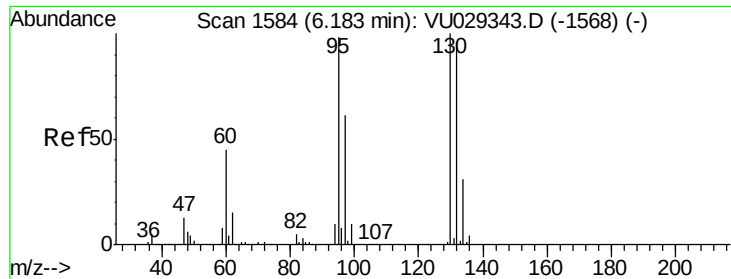
Tgt Ion: 62 Resp: 201510

Ion Ratio Lower Upper

62 100

98 8.8 4.9 7.3#





#37

Trichloroethene

Concen: 10.167 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion:130 Resp: 187110

Ion Ratio Lower Upper

130 100

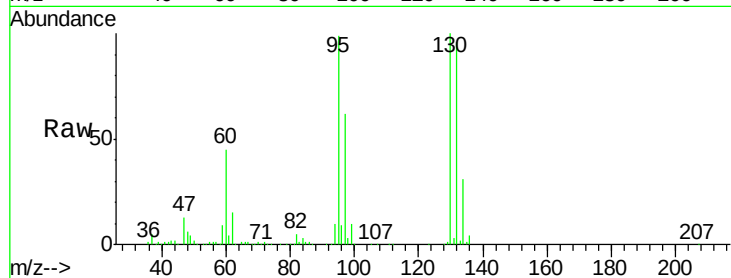
95 98.3 85.4 128.0

Manual Integrations

APPROVED

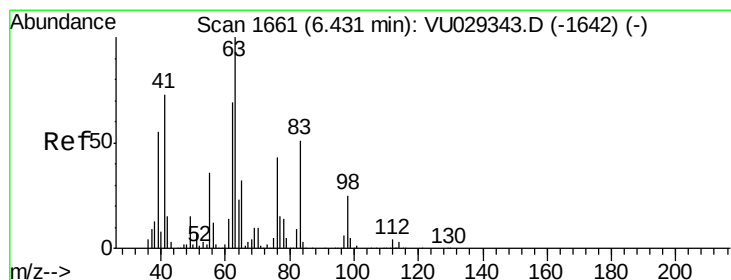
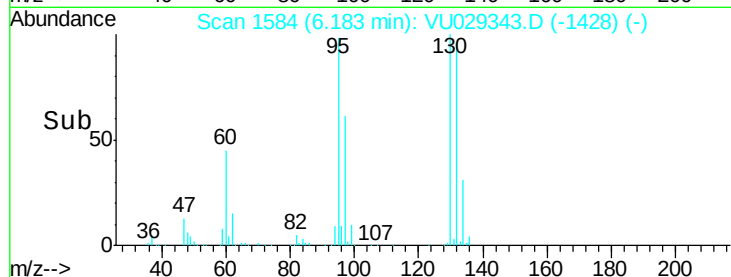
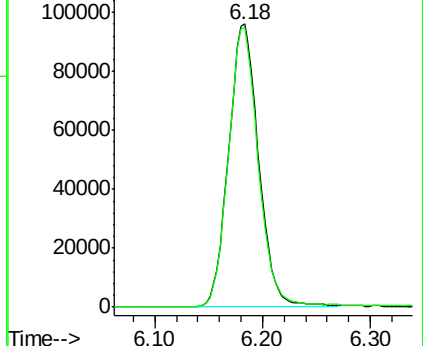
sam

2/8/2019 2:26:24 PM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VU0



#38

1,2-Dichloropropane

Concen: 10.235 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029343.D

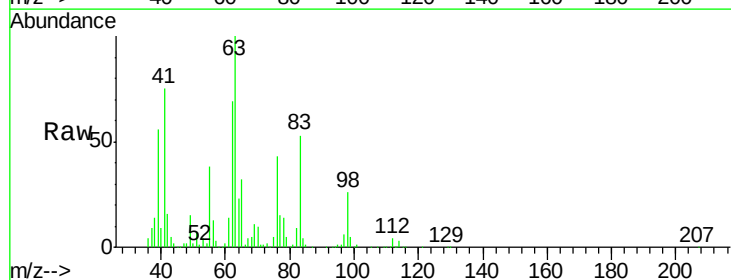
Acq: 05 Feb 2019 12:36

Tgt Ion: 63 Resp: 170756

Ion Ratio Lower Upper

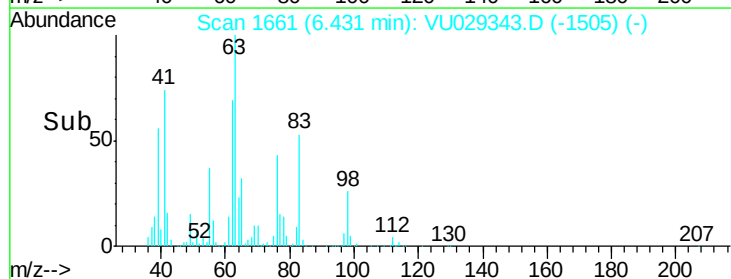
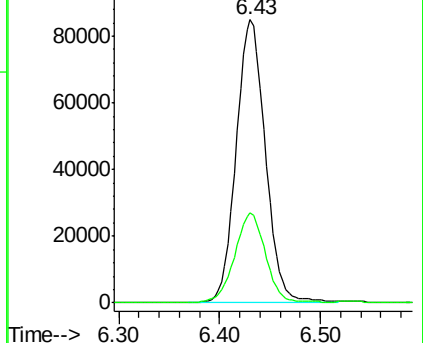
63 100

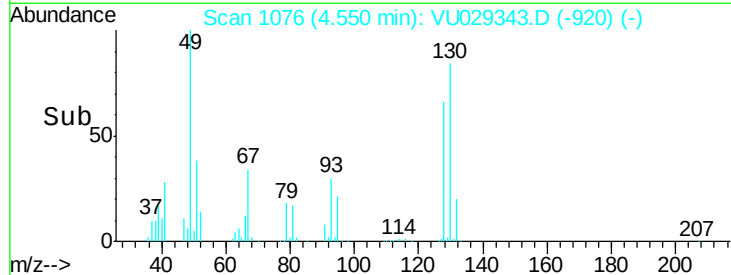
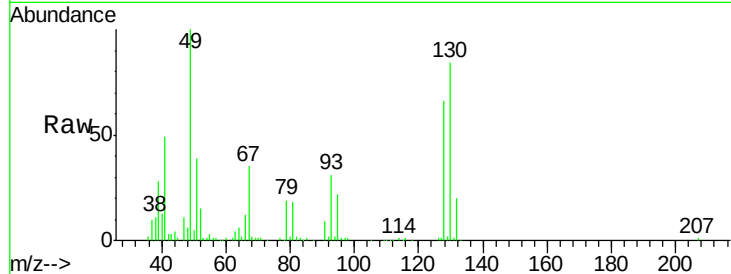
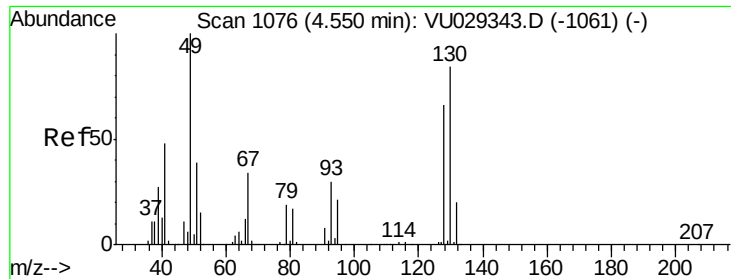
65 31.8 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0





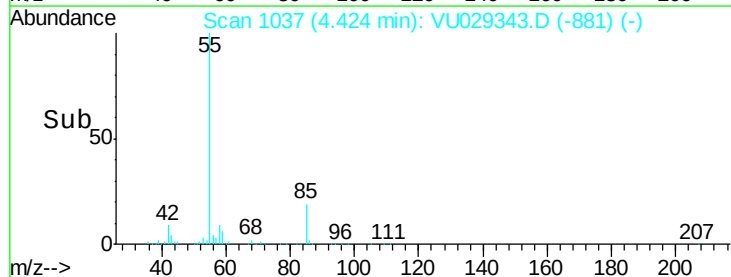
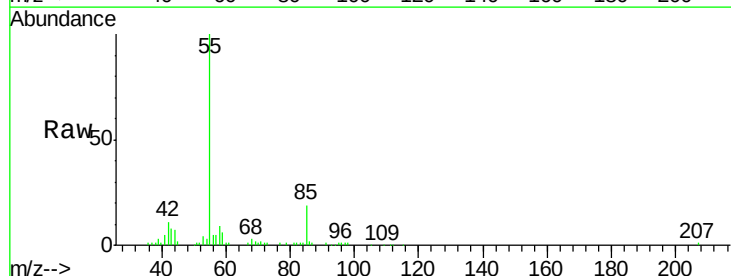
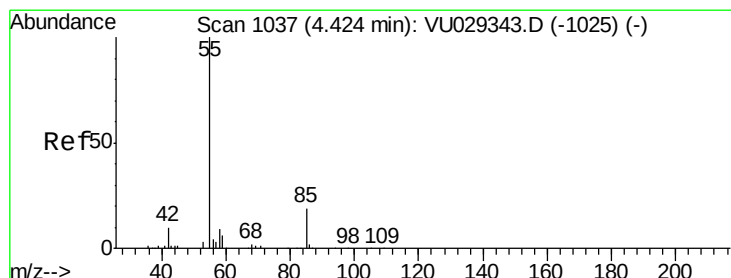
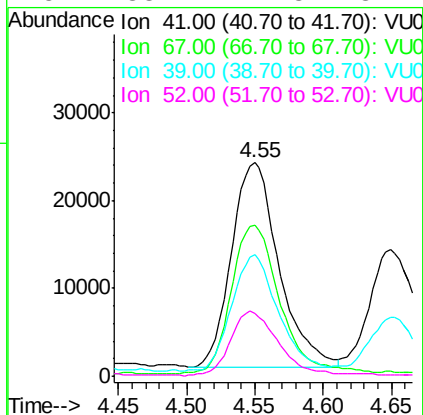
#39
Methacrylonitrile
Concen: 10.349 ug/l
RT: 4.55 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tot Ion	41	Resp:	56247
Ion	Ratio	Lower	Upper
41	100		
67	74.9	50.1	75.1
39	55.5	47.9	71.9
52	33.2	24.8	37.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

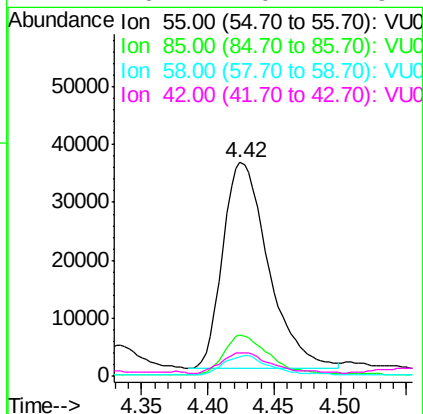
Manual Integrations
APPROVED

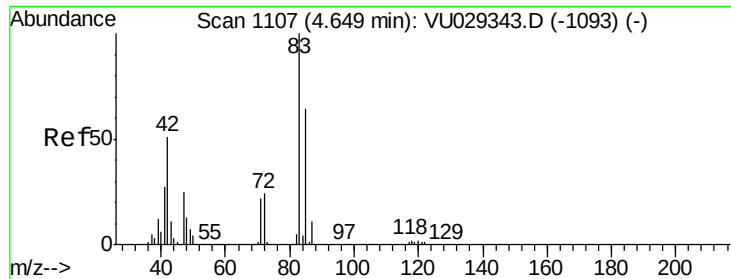
sam
2/8/2019 2:26:24 PM



#40
Methyl acrylate
Concen: 10.378 ug/l
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	55	Resp:	85147
Ion	Ratio	Lower	Upper
55	100		
85	18.8	11.3	16.9#
58	9.2	6.2	9.4
42	10.1	10.1	15.1





#41

Tetrahydrofuran

Concen: 19.615 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

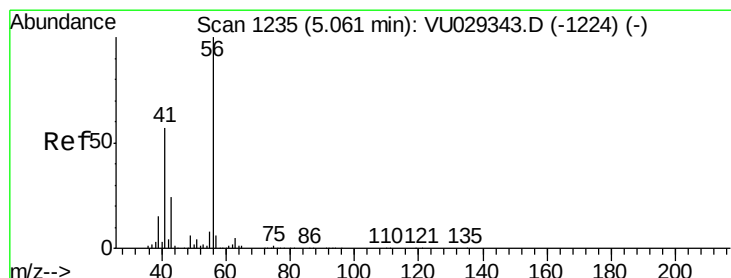
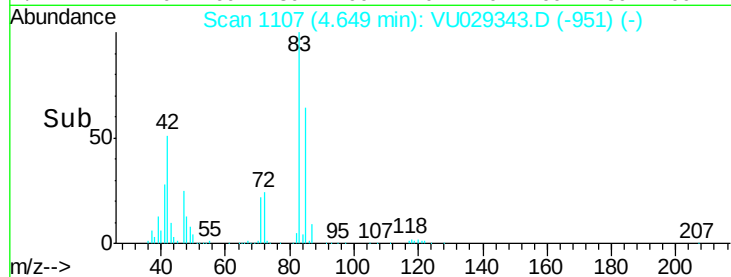
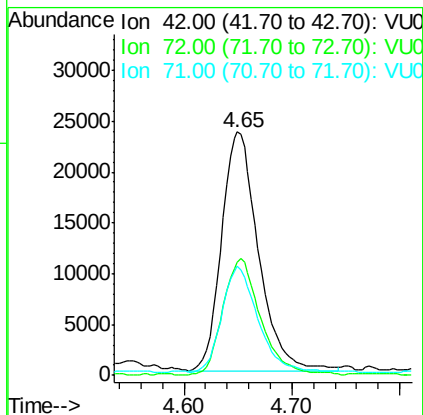
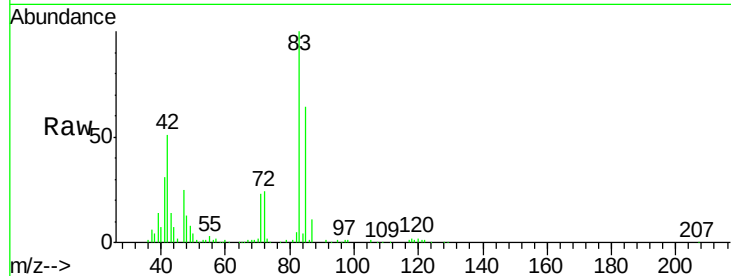
ClientSampleId :

VSTDICCC010

Tot Ion:	42	Resp:	55719
Ion	Ratio	Lower	Upper
42	100		
72	50.3	33.1	49.7#
71	43.1	30.2	45.2

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#42

1-Chlorobutane

Concen: 10.299 ug/l

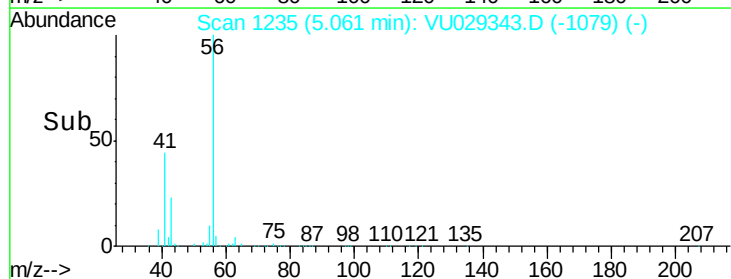
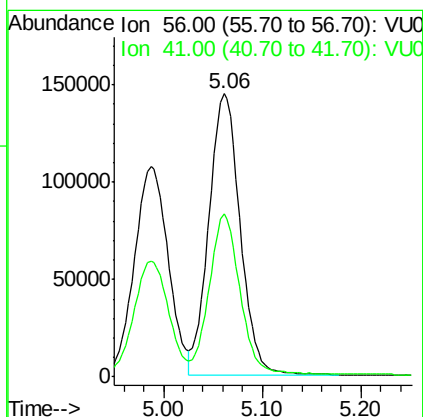
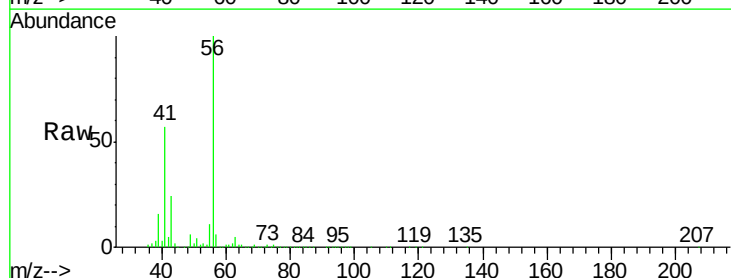
RT: 5.06 min Scan# 1235

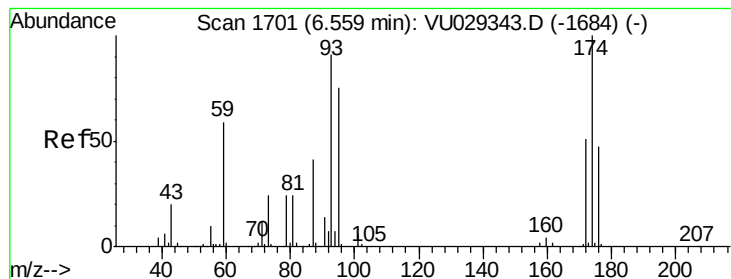
Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tgt Ion:	56	Resp:	320012
Ion	Ratio	Lower	Upper
56	100		
41	55.4	31.3	93.8





#43

Dibromomethane

Concen: 9.995 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

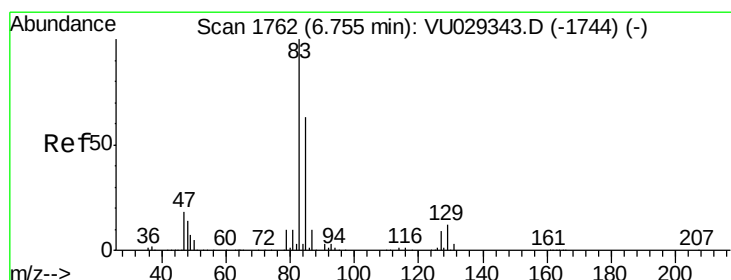
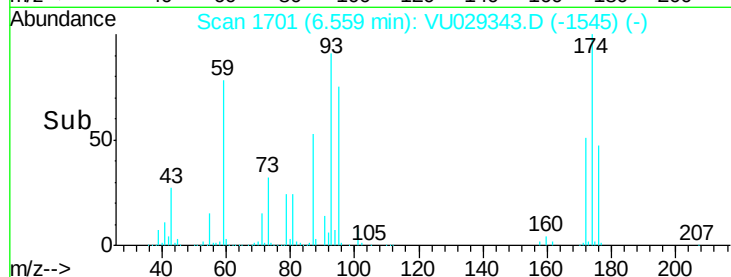
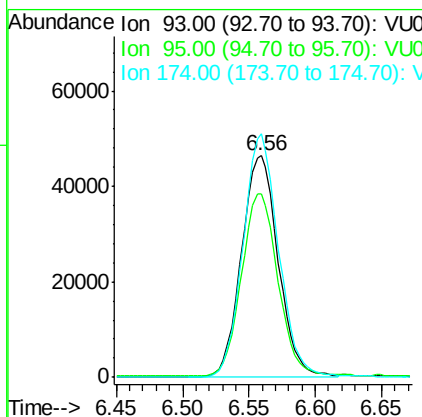
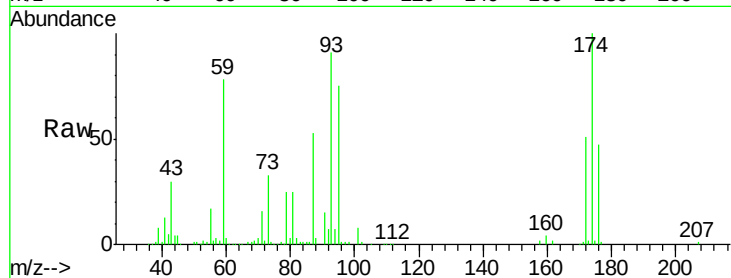
ClientSampleId :

VSTDICCC010

Tot Ion:	93	Resp:	88861
Ion	Ratio	Lower	Upper
93	100		
95	82.2	68.2	102.2
174	107.5	77.6	116.4

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#44

Bromodichloromethane

Concen: 10.191 ug/l

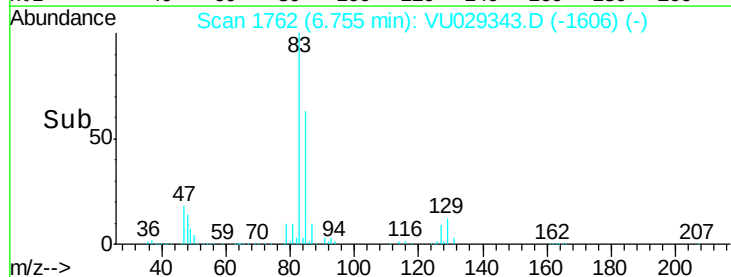
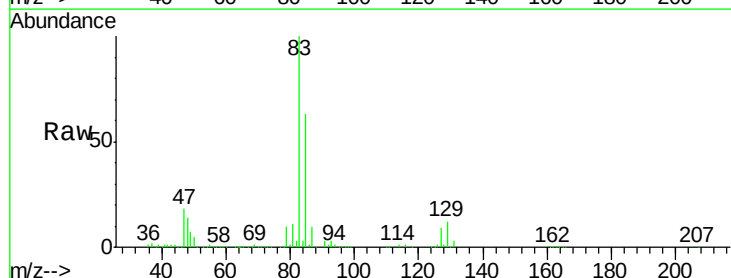
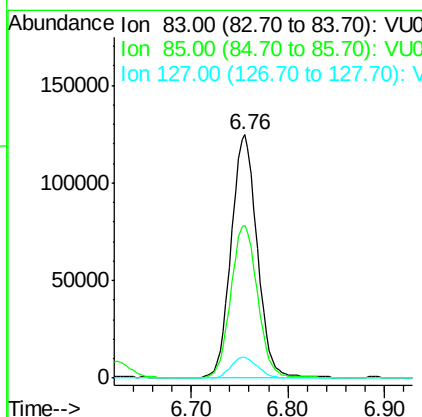
RT: 6.76 min Scan# 1762

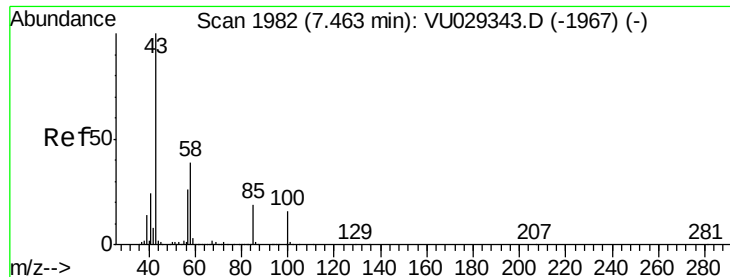
Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Tgt Ion:	83	Resp:	230847
Ion	Ratio	Lower	Upper
83	100		
85	62.6	49.2	73.8
127	8.8	7.0	10.6





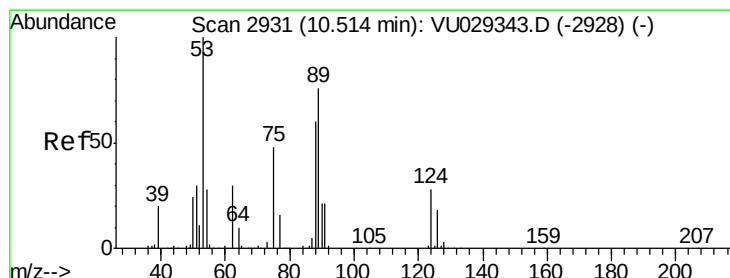
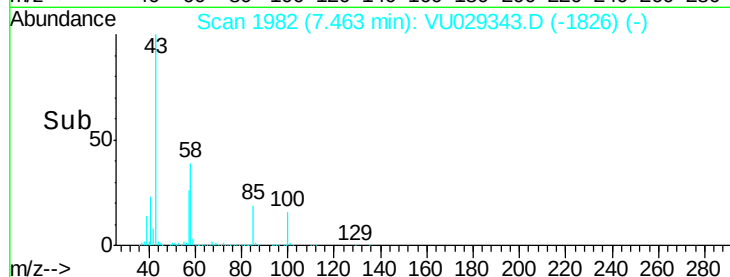
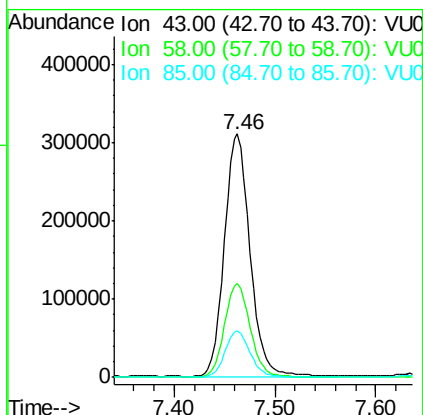
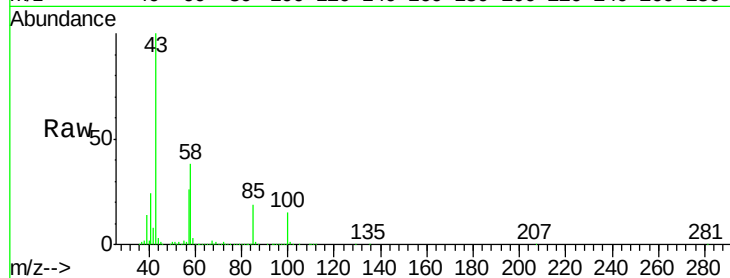
#45
4-Methyl-2-Pentanone
Concen: 52.825 ug/l
RT: 7.46 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
58	38.8	17.6	52.8	
85	18.8	12.3	18.5#	

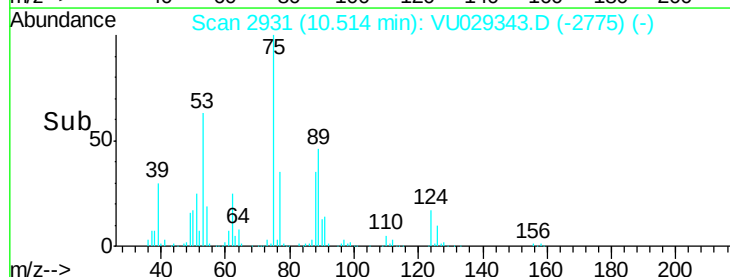
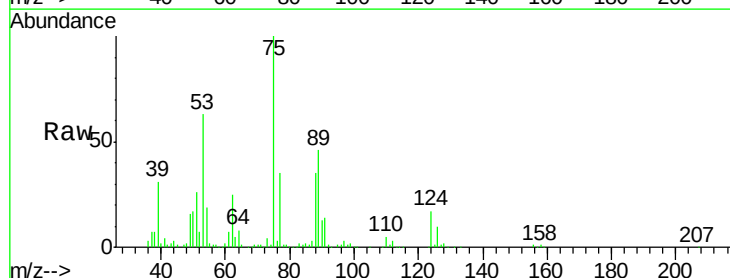
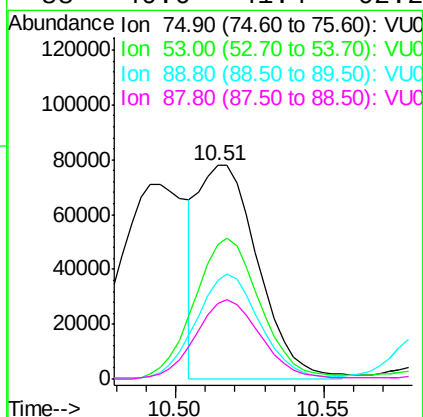
Manual Integrations
APPROVED

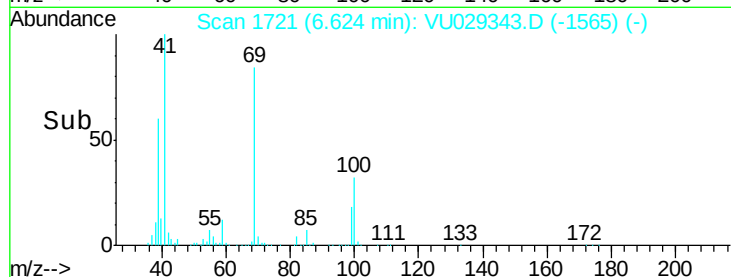
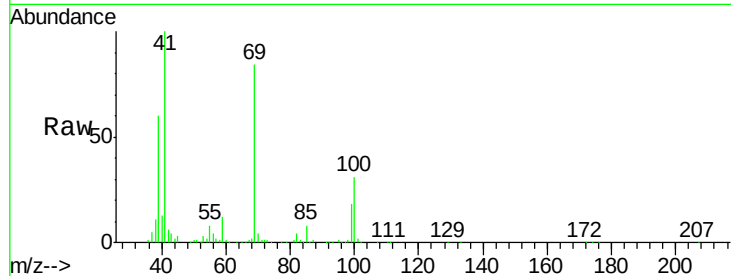
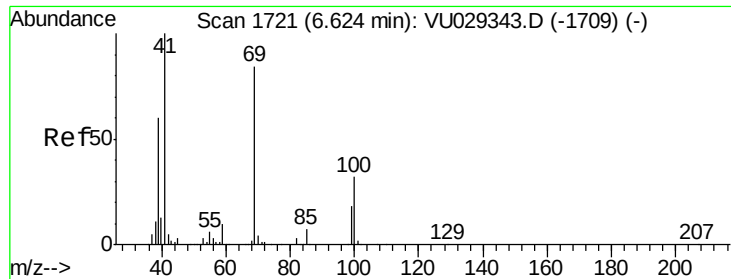
sam
2/8/2019 2:26:24 PM



#46
t-1,4-Dichloro-2-butene
Concen: 21.611 ug/l m
RT: 10.51 min Scan# 2931
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
53	72.1	78.2	117.4#	
89	52.7	44.2	66.4	
88	40.6	41.4	62.2#	





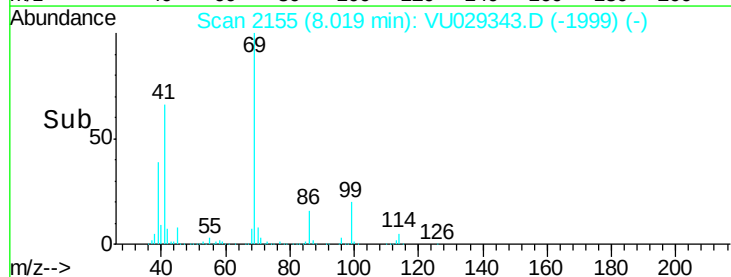
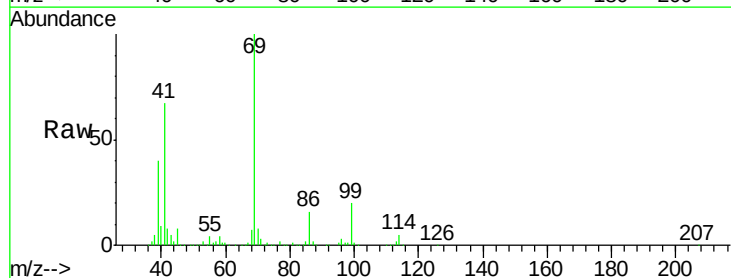
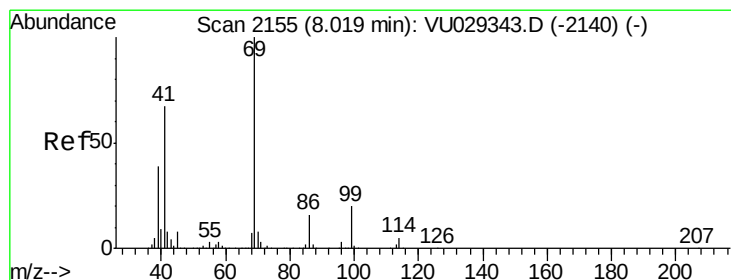
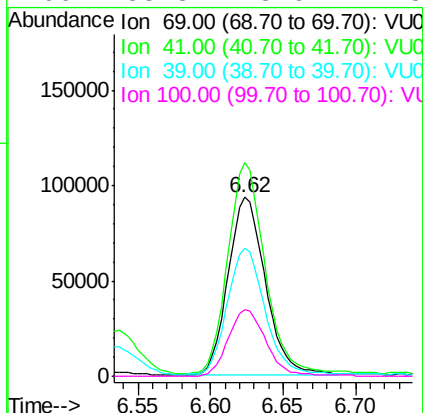
#47
Methyl methacrylate
Concen: 21.242 ug/l
RT: 6.62 min Scan# 1721
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		166155		
41	117.6	0.0	296.2		
39	70.9	71.2	106.8		
100	38.3	28.6	42.8		

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

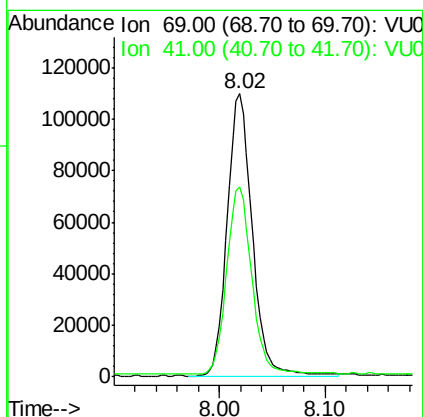
Manual Integrations
APPROVED

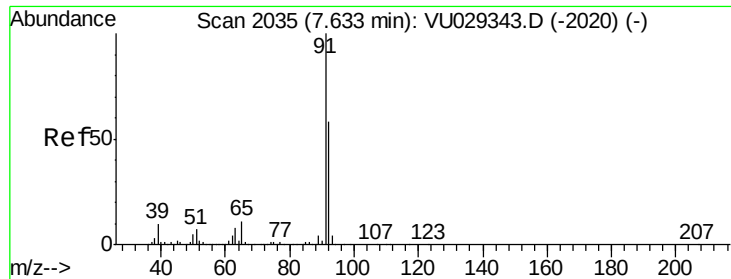
sam
2/8/2019 2:26:24 PM



#48
Ethyl methacrylate
Concen: 10.688 ug/l
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		179349		
41	66.5	39.9	119.7		





#49

Toluene

Concen: 10.307 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 92 Resp: 422980

Ion Ratio Lower Upper

92 100

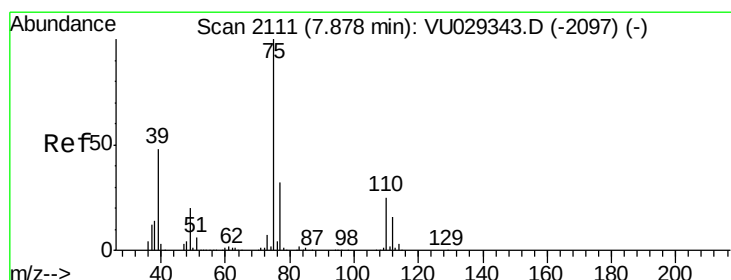
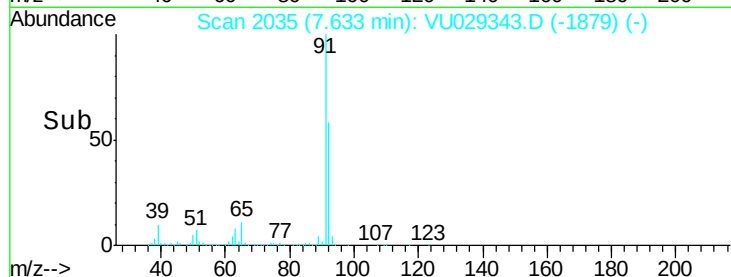
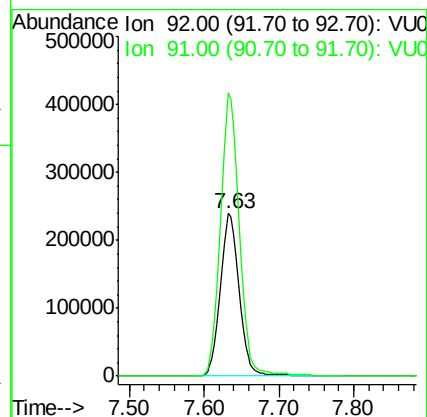
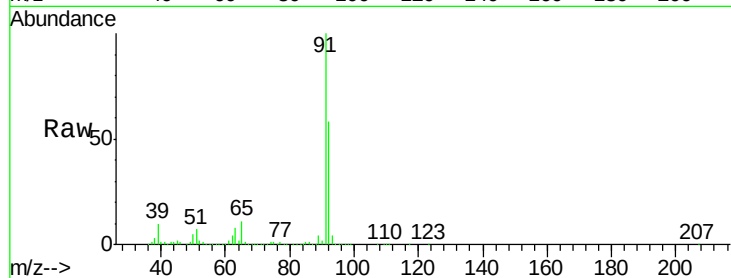
91 173.3 140.7 211.1

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



#50

t-1,3-Dichloropropene

Concen: 10.549 ug/l

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029343.D

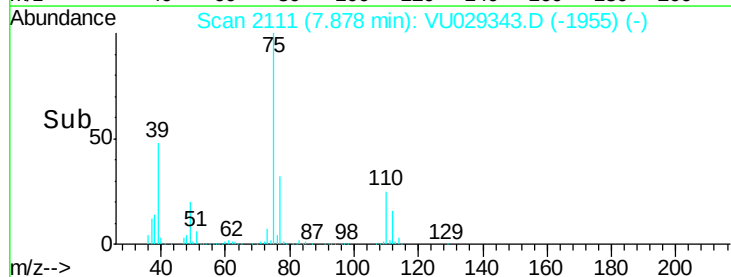
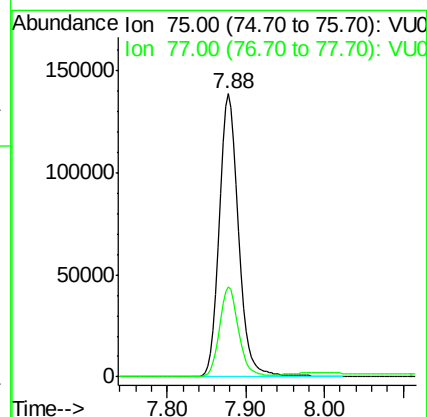
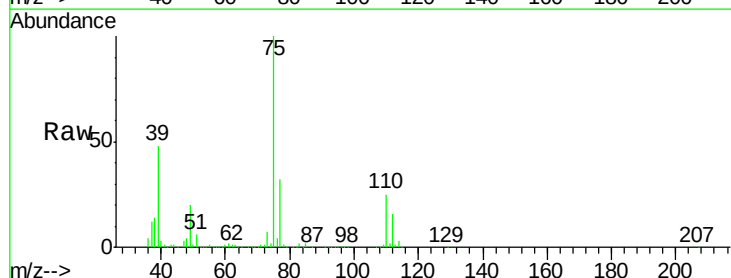
Acq: 05 Feb 2019 12:36

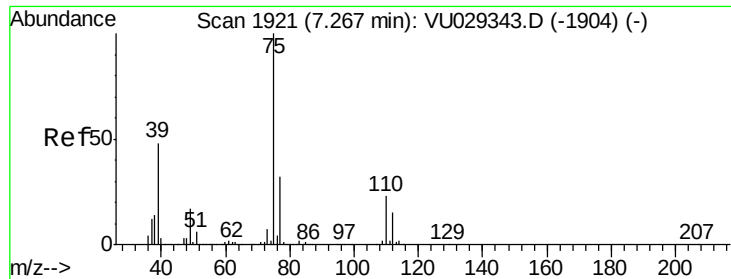
Tgt Ion: 75 Resp: 234256

Ion Ratio Lower Upper

75 100

77 31.9 23.6 35.4





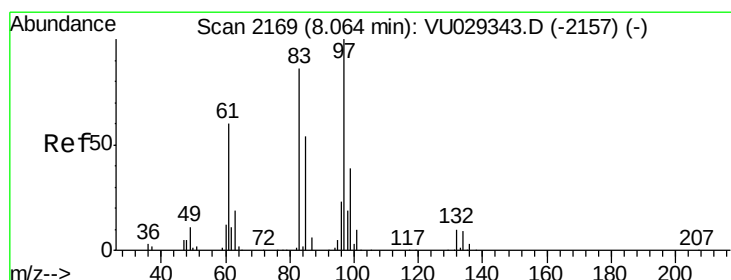
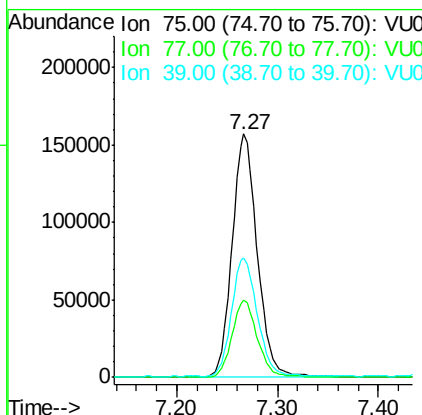
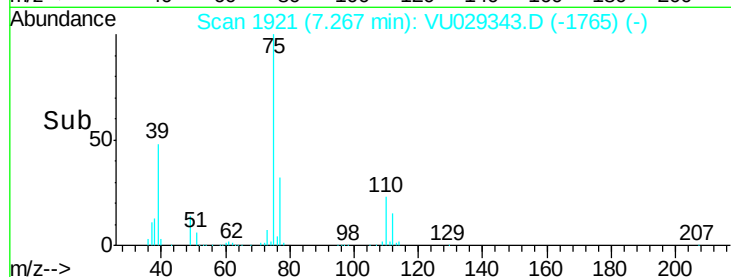
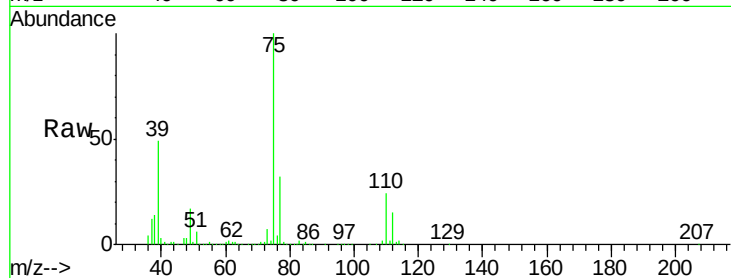
#51
 cis-1,3-Dichloropropene
 Concen: 10.351 ug/l
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	48.5	47.2	70.8

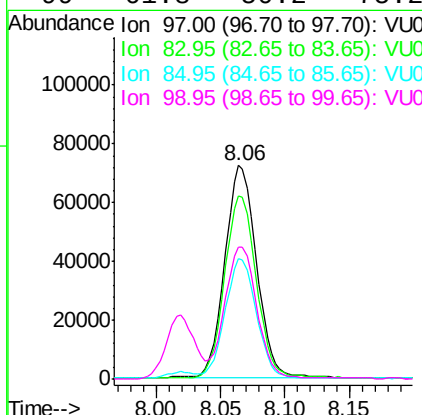
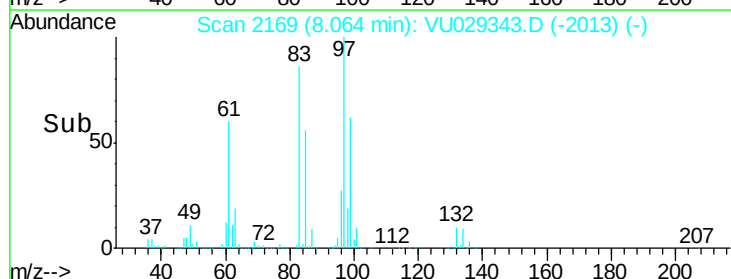
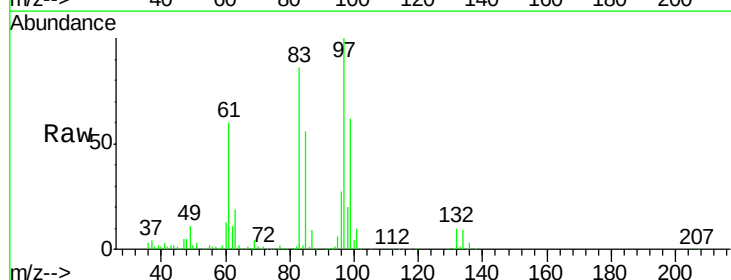
Manual Integrations
 APPROVED

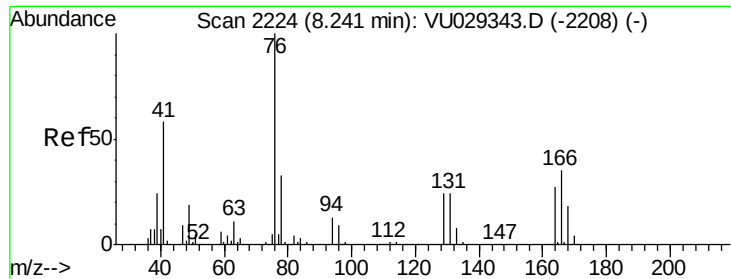
sam
 2/8/2019 2:26:24 PM



#52
 1,1,2-Trichloroethane
 Concen: 10.343 ug/l
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.8	69.9	104.9
85	56.1	45.8	68.6
99	61.8	50.2	75.2





#53

1,3-Dichloropropane

Concen: 10.351 ug/l

RT: 8.24 min Scan# 2224

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 214013

Ion Ratio Lower Upper

76 100

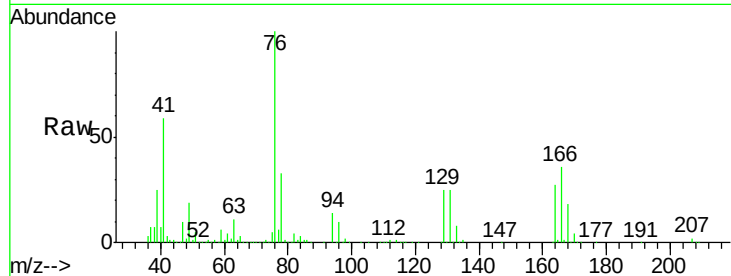
78 32.3 26.3 39.5

Manual Integrations

APPROVED

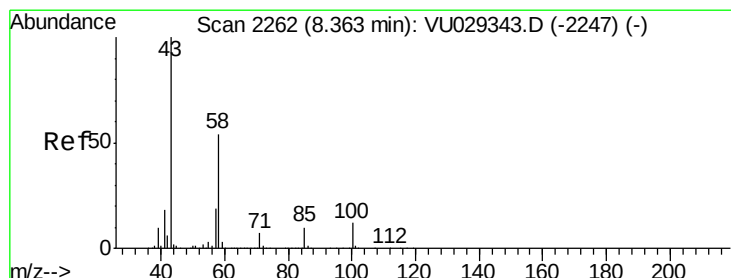
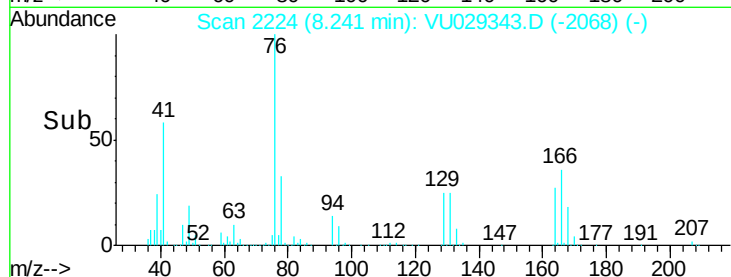
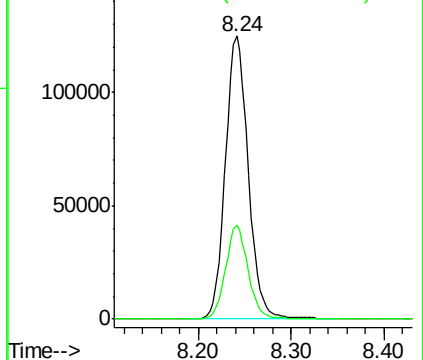
sam

2/8/2019 2:26:24 PM



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



#54

2-Hexanone

Concen: 54.351 ug/l

RT: 8.36 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

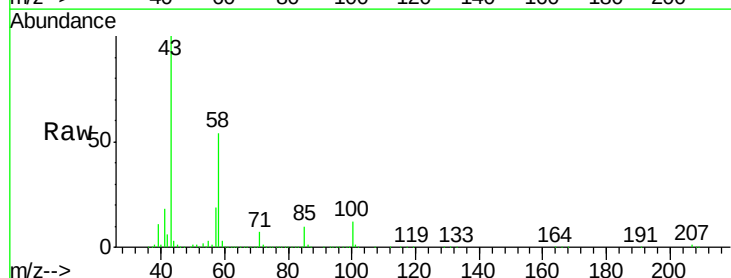
Tgt Ion: 43 Resp: 397043

Ion Ratio Lower Upper

43 100

58 53.7 26.0 66.0

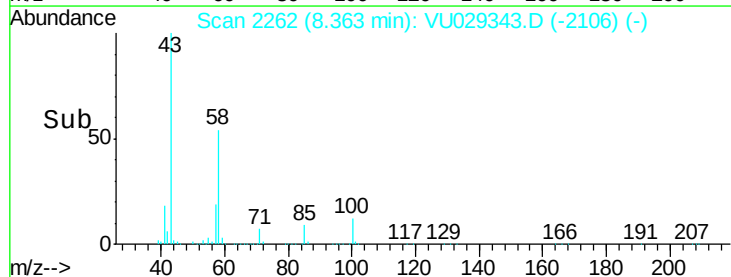
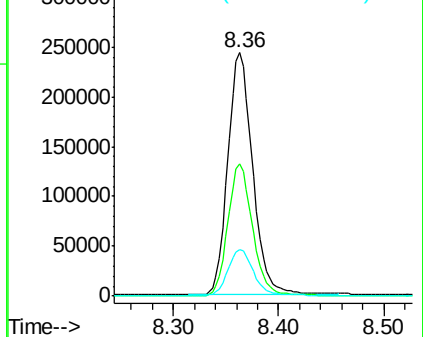
57 19.5 0.0 37.7

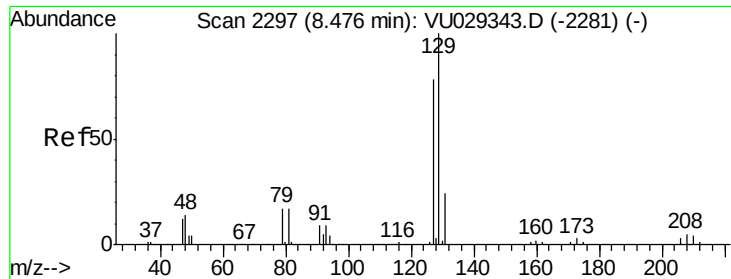


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





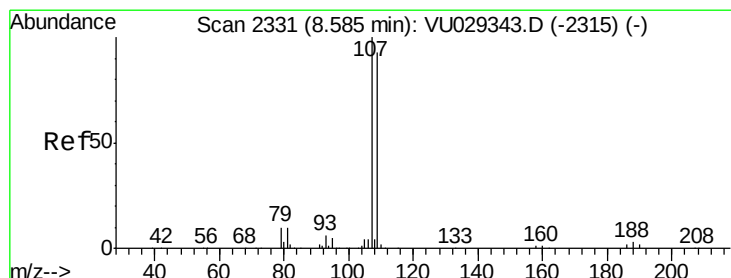
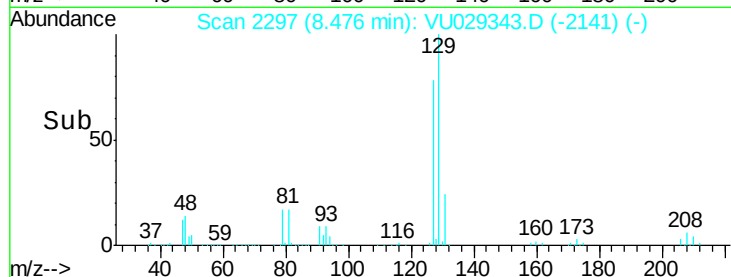
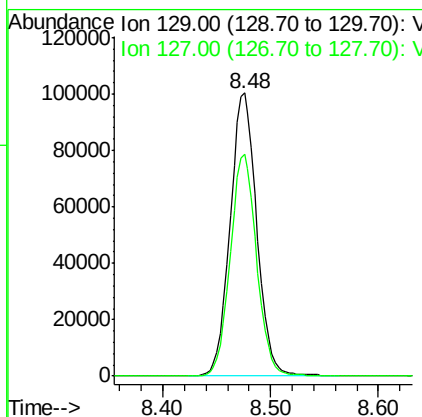
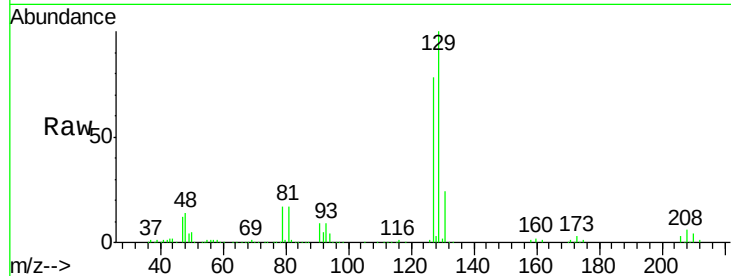
#55
Dibromochloromethane
Concen: 10.361 ug/l
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
129	100		
127	77.2	60.5	90.7

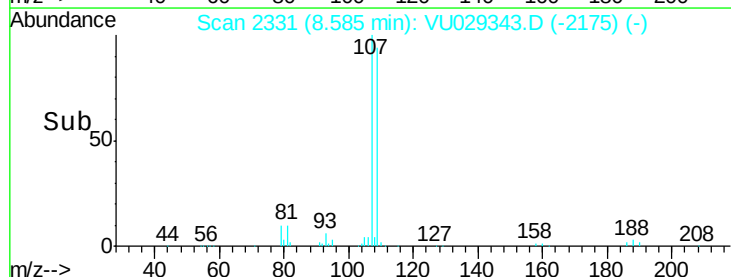
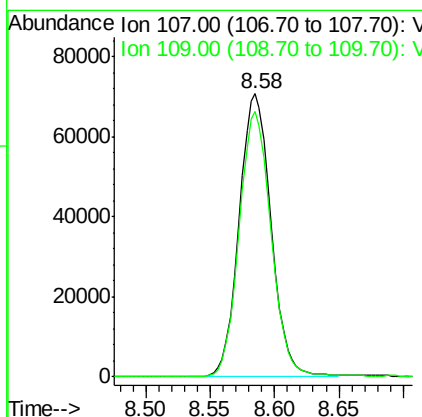
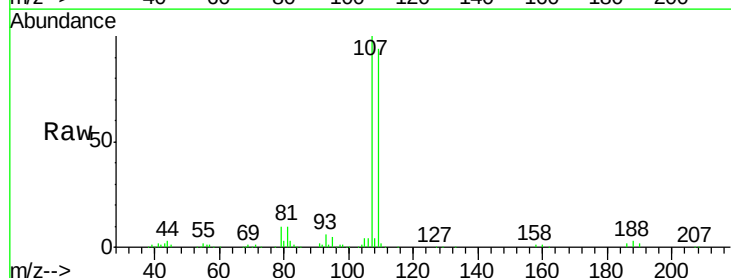
Manual Integrations
APPROVED

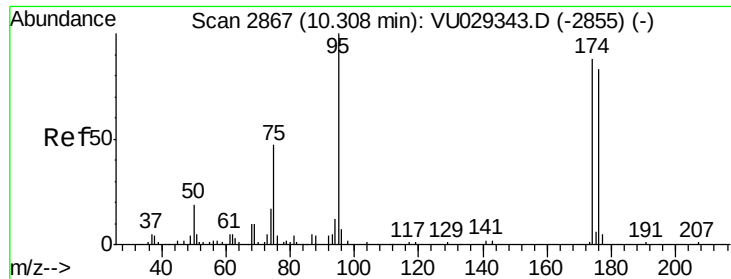
sam
2/8/2019 2:26:24 PM



#56
1,2-Dibromoethane
Concen: 10.112 ug/l
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.7	0.0	189.6





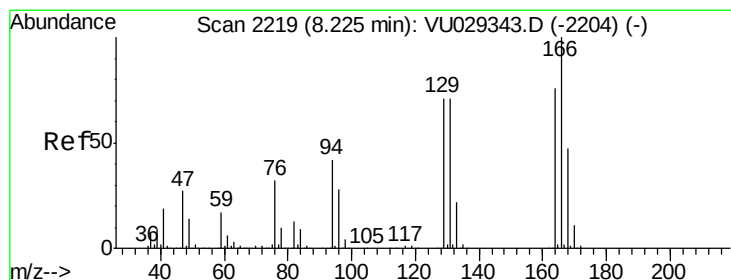
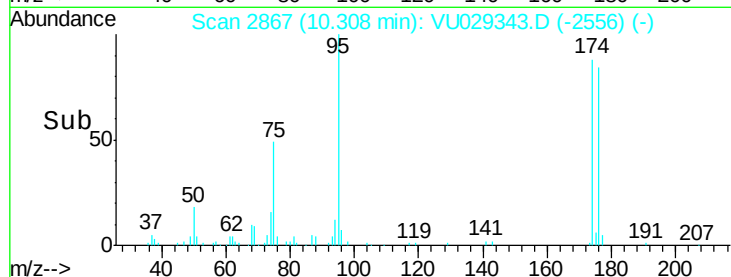
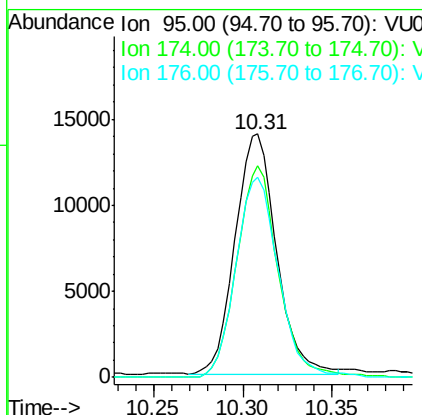
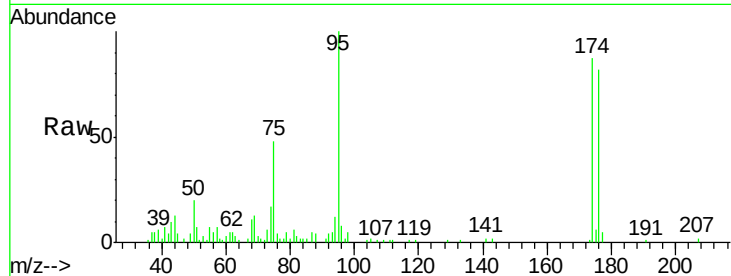
#57
4-Bromofluorobenzene
Concen: 10.112 ug/l
RT: 10.31 min Scan# 2867
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
95	100		
174	88.3	64.2	96.2
176	85.9	62.3	93.5

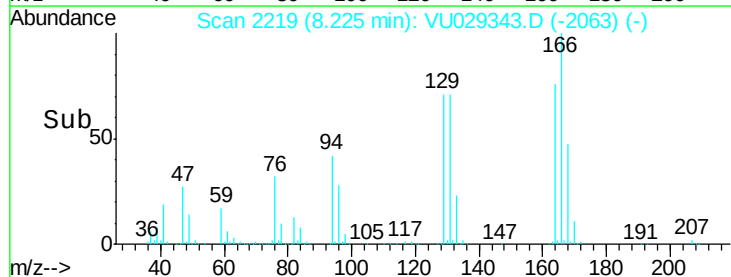
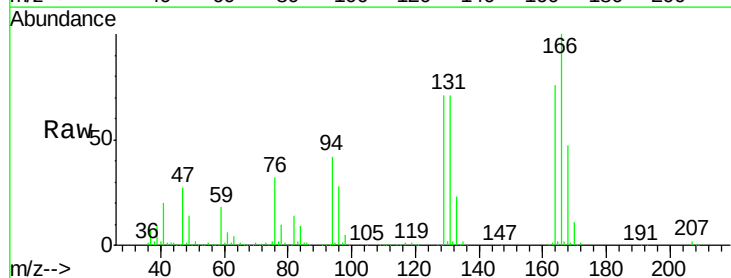
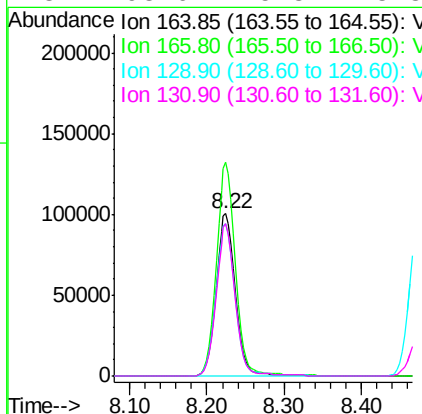
Manual Integrations
APPROVED

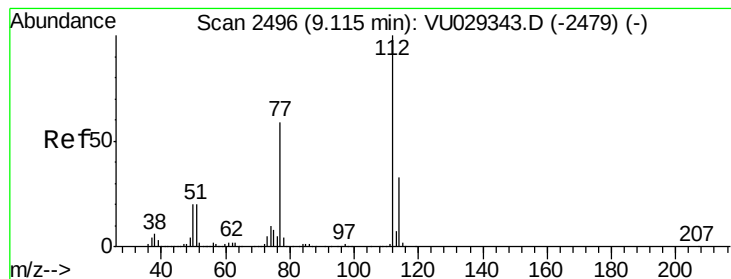
sam
2/8/2019 2:26:24 PM



#58
Tetrachloroethene
Concen: 10.348 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.5	106.6	159.8
129	93.7	79.9	119.9
131	93.6	75.8	113.8





#59

Chlorobenzene

Concen: 10.334 ug/l

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 477720

Ion Ratio Lower Upper

112 100

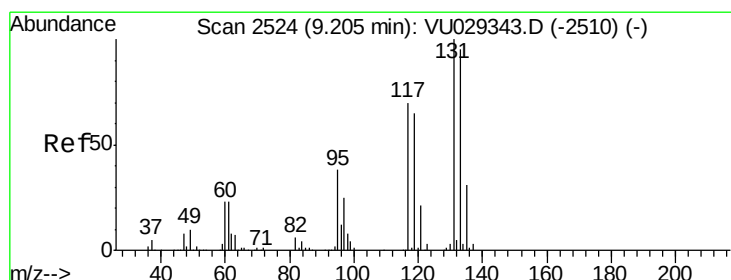
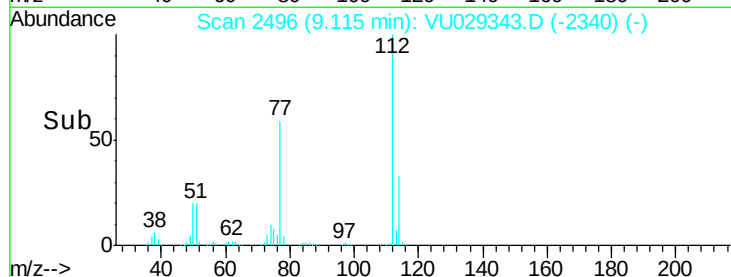
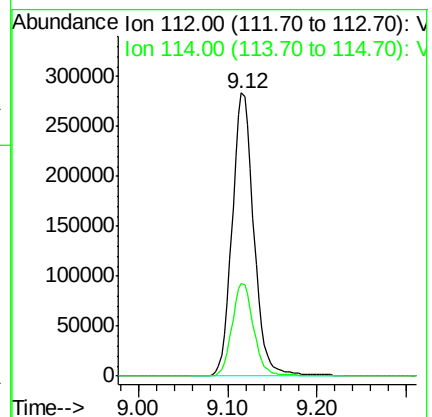
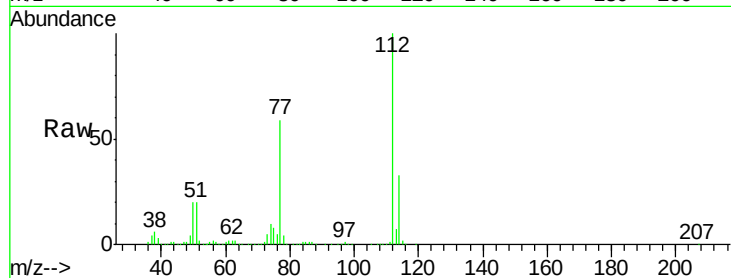
114 32.8 26.2 39.4

Manual Integrations

APPROVED

sam

2/8/2019 2:26:24 PM



#60

1,1,1,2-Tetrachloroethane

Concen: 10.312 ug/l

RT: 9.21 min Scan# 2524

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

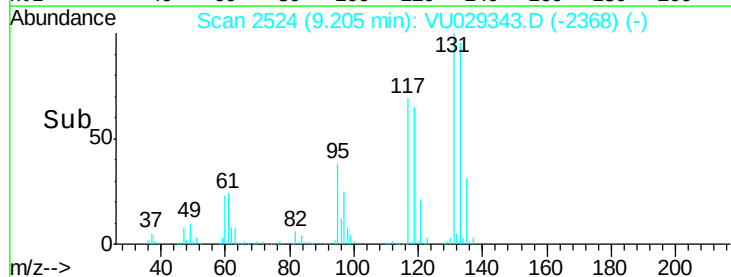
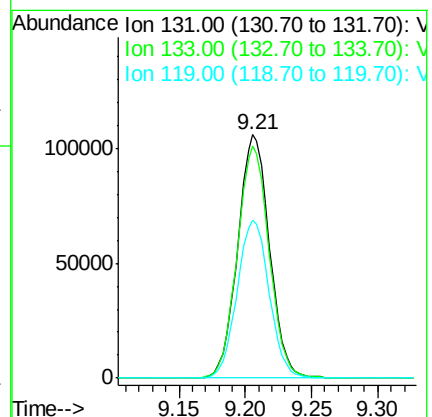
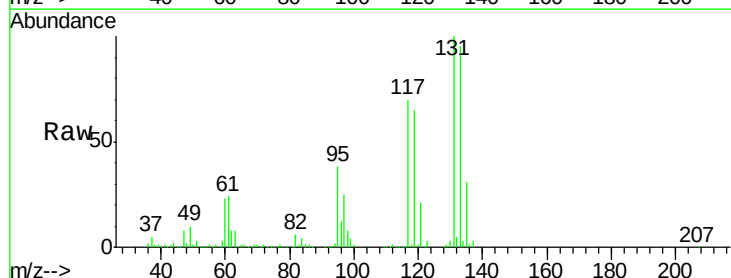
Tgt Ion:131 Resp: 176144

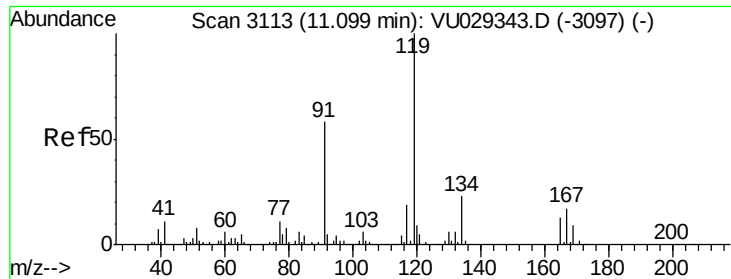
Ion Ratio Lower Upper

131 100

133 95.8 77.3 115.9

119 65.8 48.9 73.3





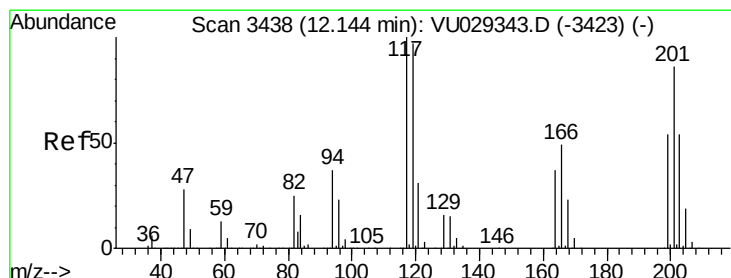
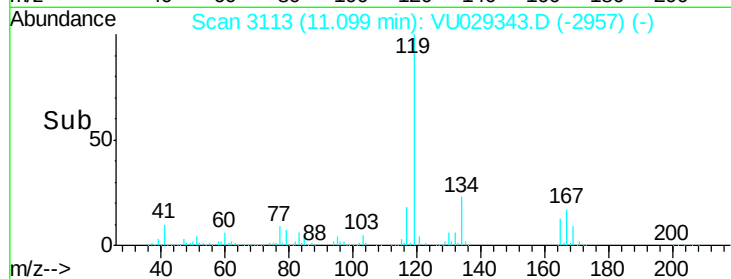
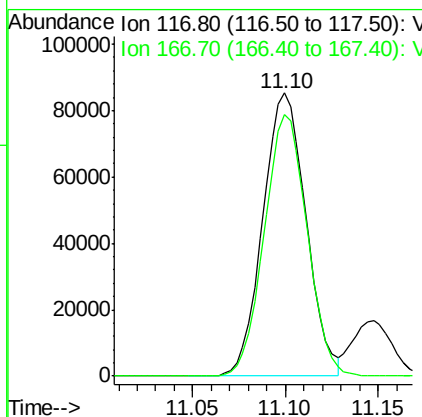
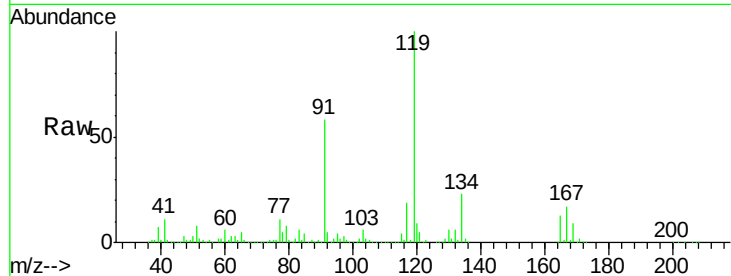
#61
 Pentachloroethane
 Concen: 10.416 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
117	100	137901		
167	91.9	65.9	98.9	

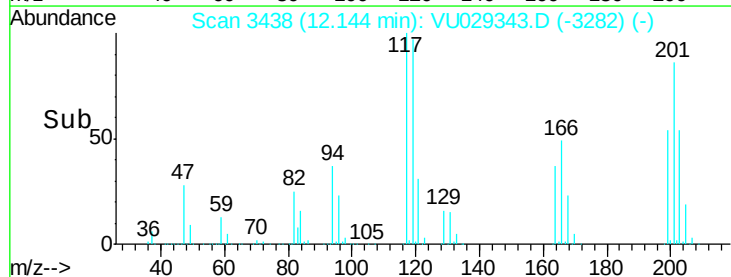
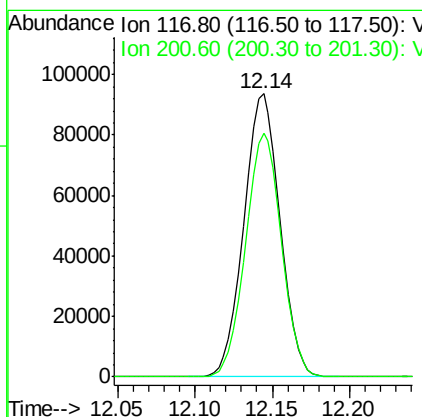
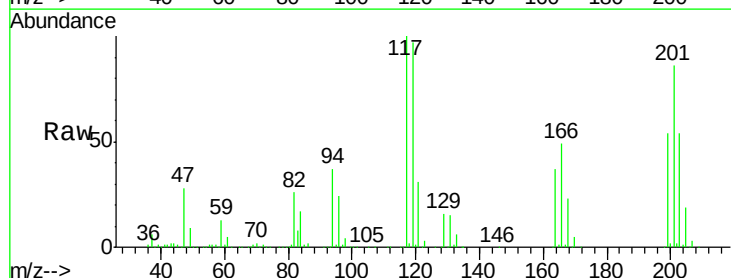
Manual Integrations
 APPROVED

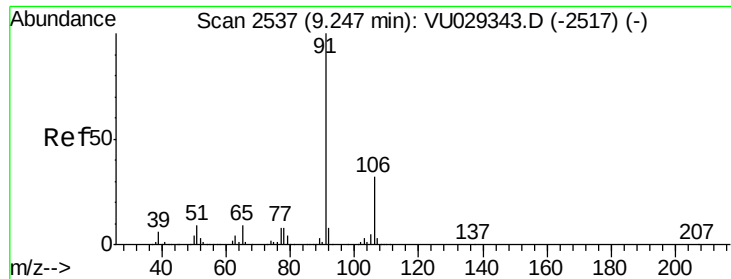
sam
 2/8/2019 2:26:24 PM



#62
 Hexachloroethane
 Concen: 10.541 ug/l
 RT: 12.14 min Scan# 3438
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	152312		
201	85.6	68.2	102.2	





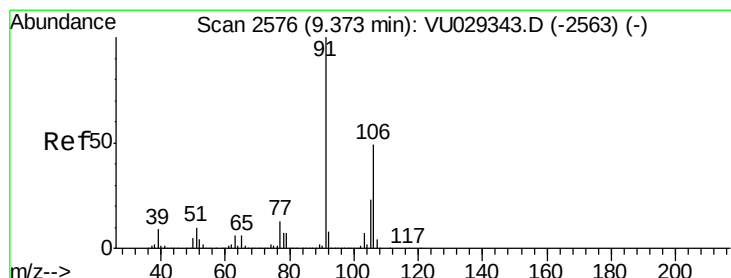
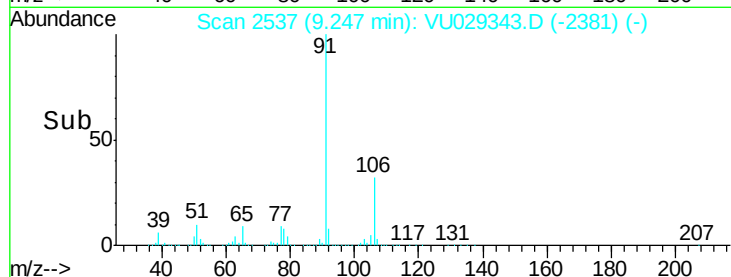
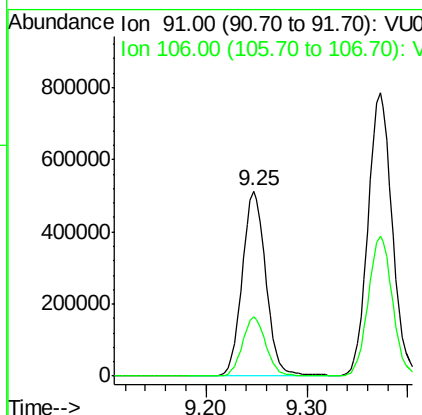
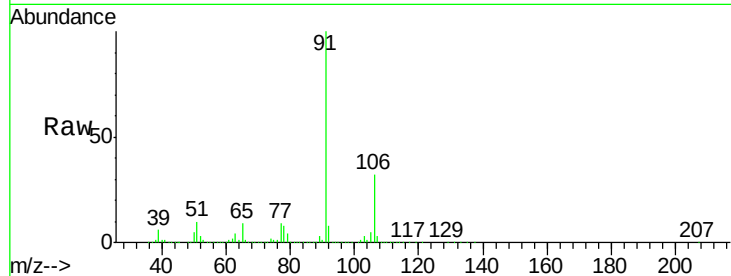
#63
Ethyl Benzene
Concen: 10.363 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 831979
Ion Ratio Lower Upper
91 100
106 31.8 23.8 35.6

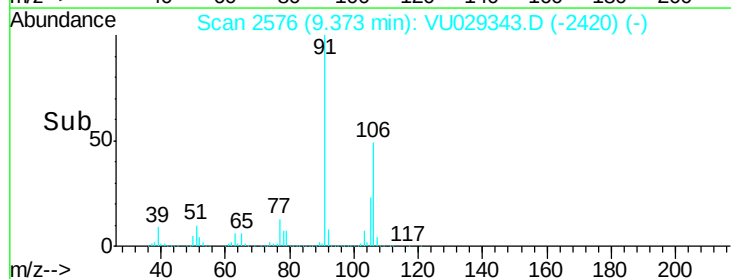
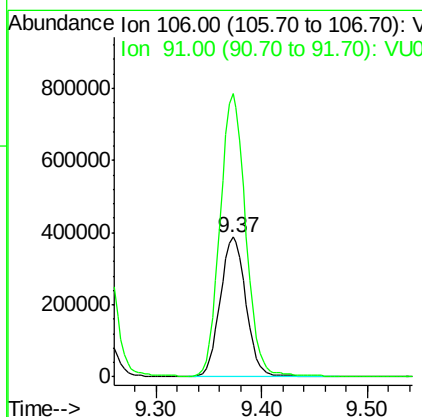
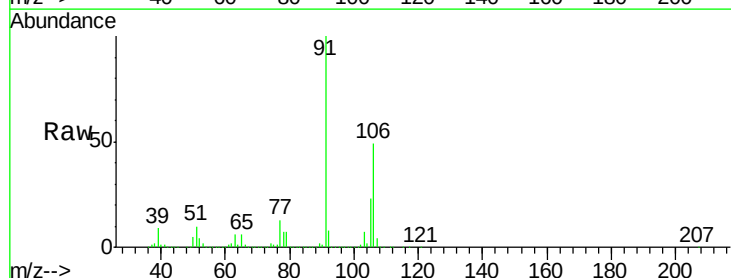
Manual Integrations
APPROVED

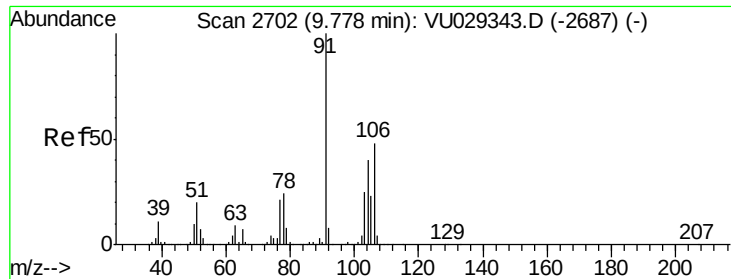
sam
2/8/2019 2:26:24 PM



#64
m/p-Xylenes
Concen: 20.931 ug/l
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion: 106 Resp: 653062
Ion Ratio Lower Upper
106 100
91 202.4 174.6 261.8





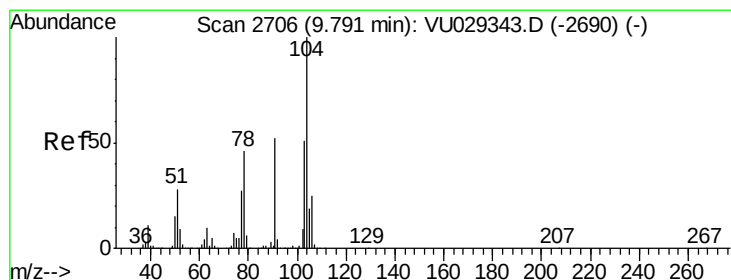
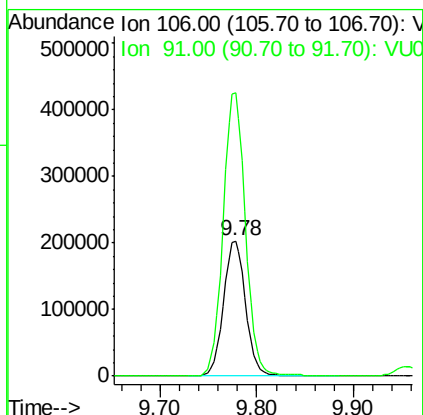
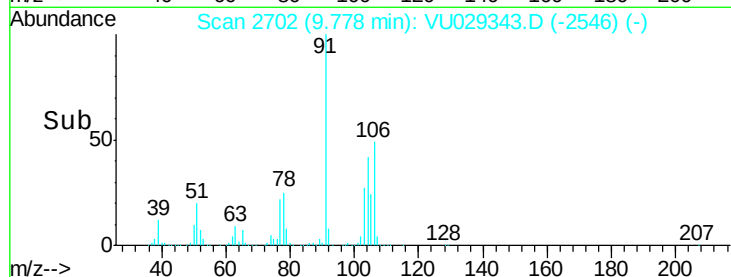
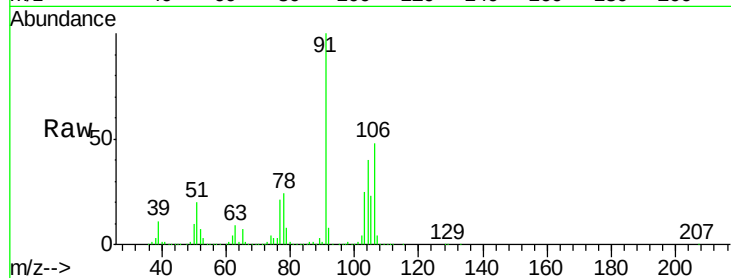
#65
o-Xylene
Concen: 10.544 ug/l
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		322897		
91	210.0	114.5	343.4		

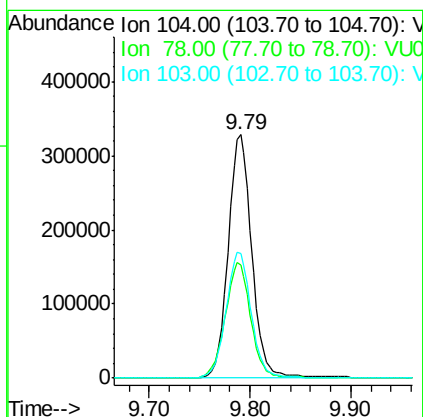
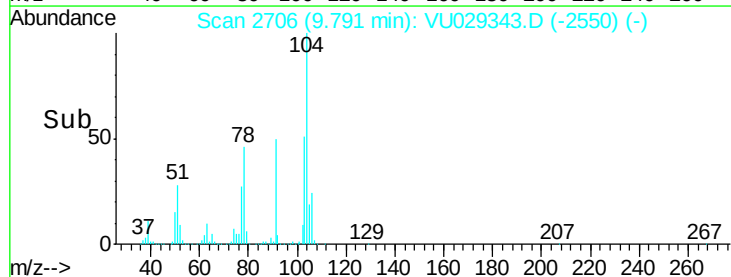
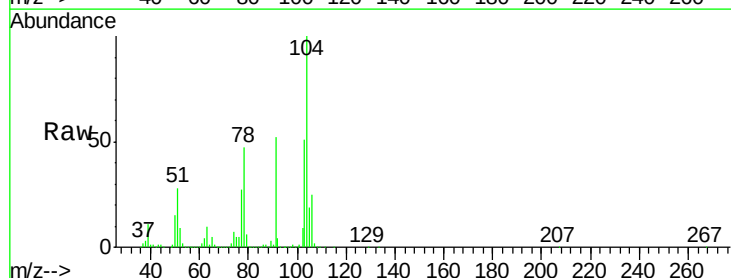
Manual Integrations
APPROVED

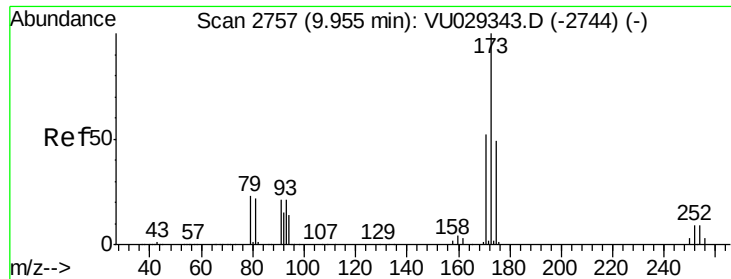
sam
2/8/2019 2:26:24 PM



#66
Styrene
Concen: 10.553 ug/l
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		538755		
78	51.3	46.5	69.7		
103	55.6	44.7	67.1		





#67

Bromoform

Concen: 10.569 ug/l

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

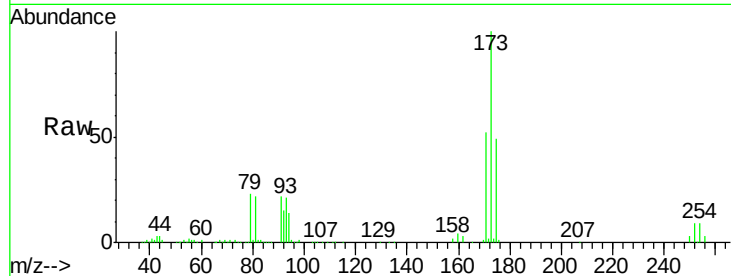
ClientSampleId :

VSTDICCC010

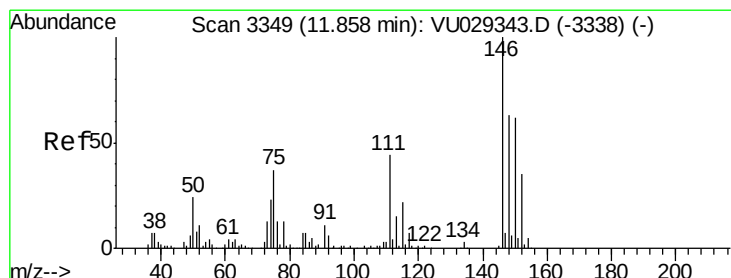
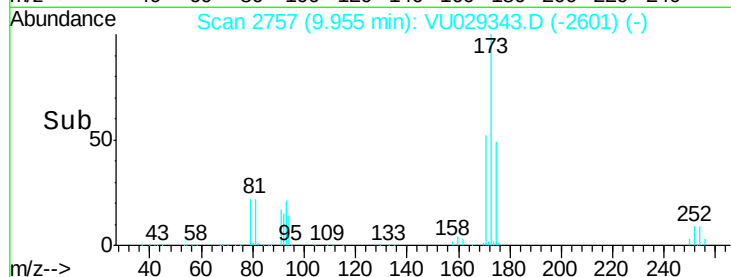
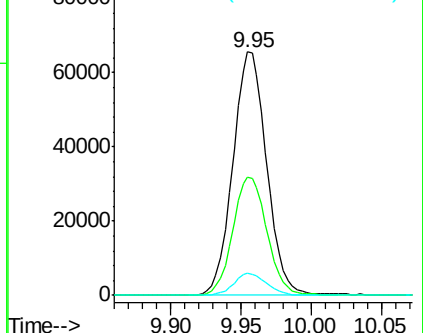
Tot Ion:	173	Resp:	109993
Ion Ratio	Lower	Upper	
173	100		
175	49.3	38.9	58.3
254	8.9	7.4	11.2

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 10.569 ug/l

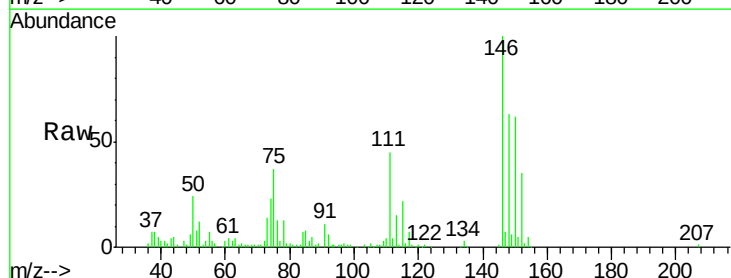
RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

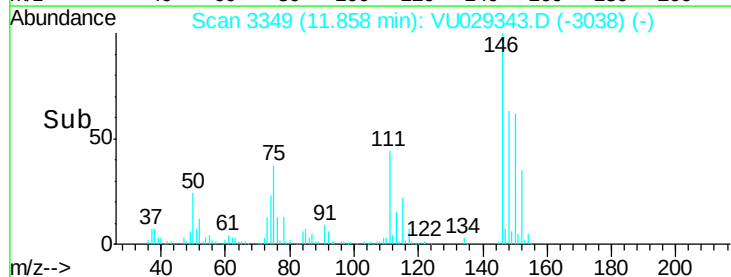
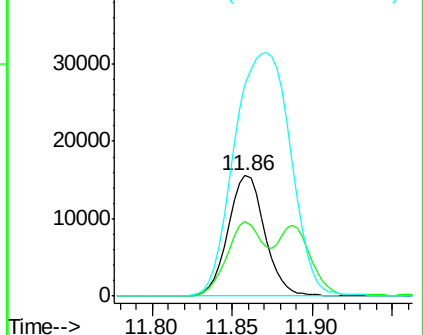
Lab File: VU029343.D

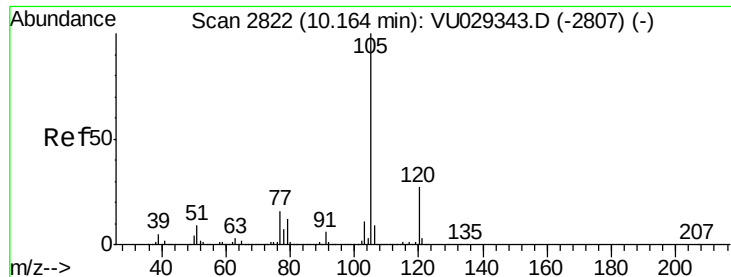
Acq: 05 Feb 2019 12:36

Tgt Ion:	152	Resp:	24285
Ion Ratio	Lower	Upper	
152	100		
115	63.8	0.0	133.4
150	314.3	0.0	670.8



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





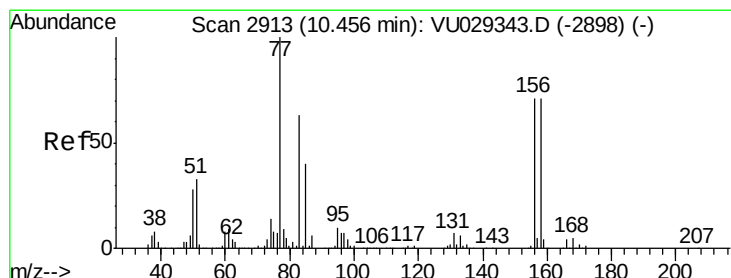
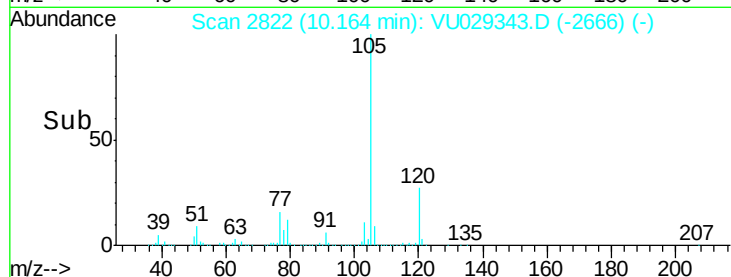
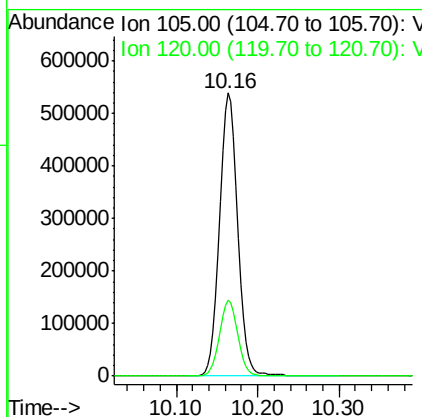
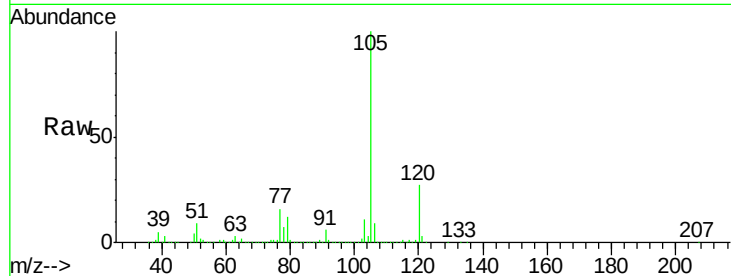
#69
Isopropylbenzene
Concen: 10.481 ug/l
RT: 10.16 min Scan# 2822
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	12.6	37.6

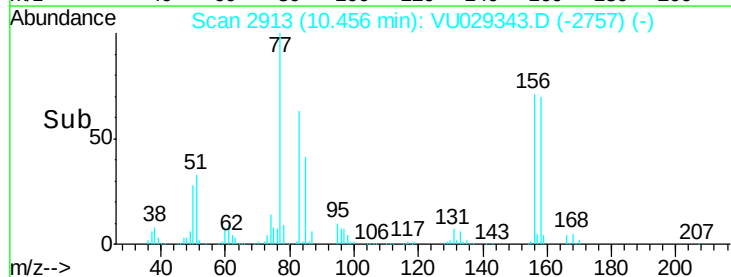
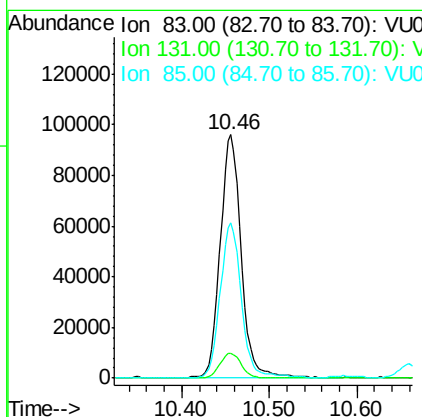
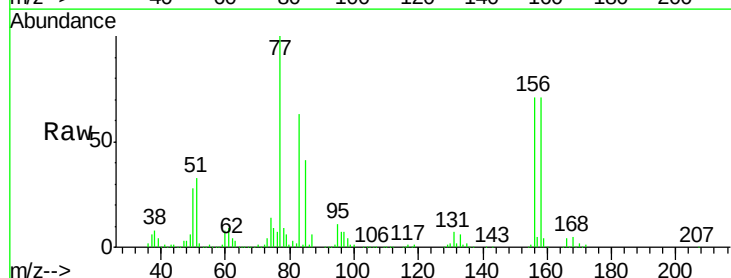
Manual Integrations
APPROVED

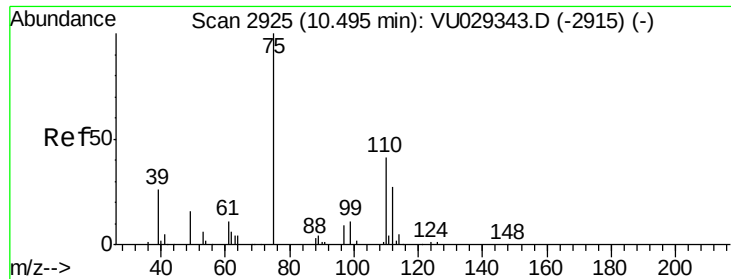
sam
2/8/2019 2:26:24 PM



#70
1,1,2,2-Tetrachloroethane
Concen: 10.507 ug/l
RT: 10.46 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.5	8.1	12.1
85	64.2	50.3	75.5





#71

1,2,3-Trichloropropane

Concen: 10.712 ug/l m

RT: 10.49 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 113077

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

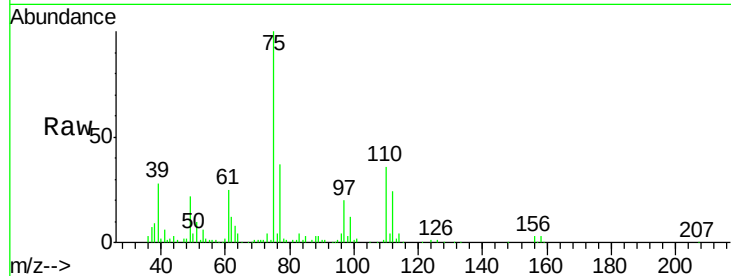
110 37.7 0.0 63.6

97 20.4 0.0 31.4

Manual Integrations
APPROVED

sam

2/8/2019 2:26:24 PM

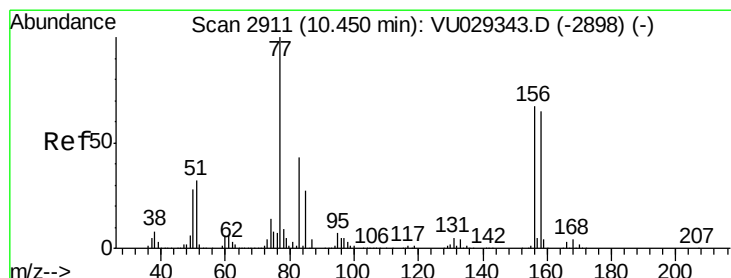
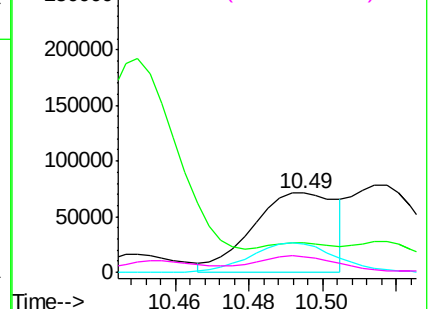
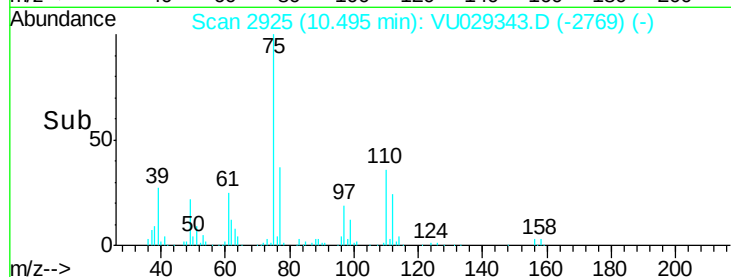


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 97.00 (96.70 to 97.70): VU0



#72

Bromobenzene

Concen: 10.608 ug/l

RT: 10.45 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

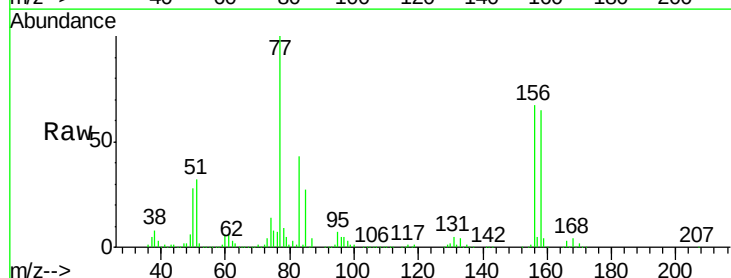
Tgt Ion: 156 Resp: 210378

Ion Ratio Lower Upper

156 100

77 147.3 0.0 343.8

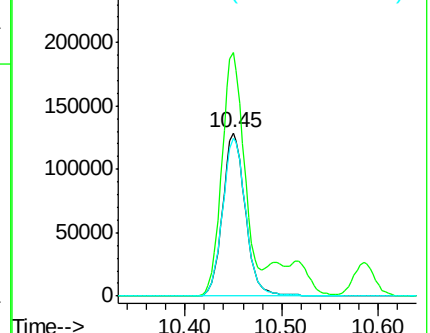
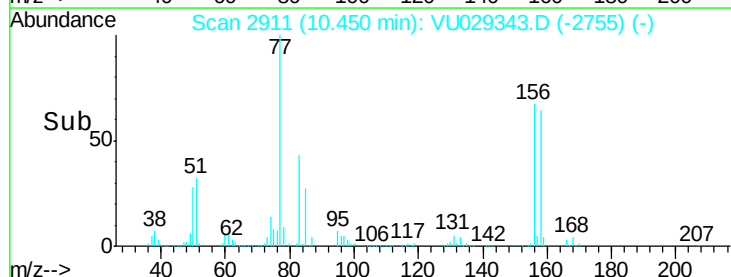
158 98.6 0.0 195.0

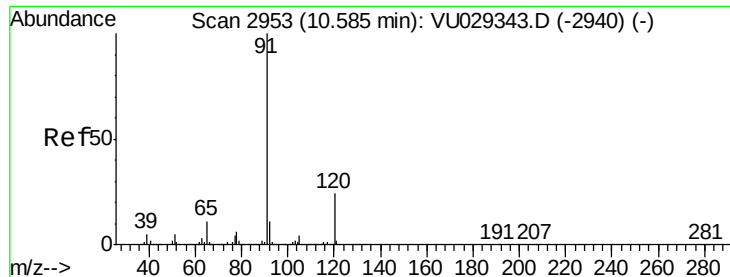


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 158.00 (157.70 to 158.70): V





#73

n-propylbenzene

Concen: 10.583 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampled :

VSTDICCC010

Tot Ion:120 Resp: 241189

Ion Ratio Lower Upper

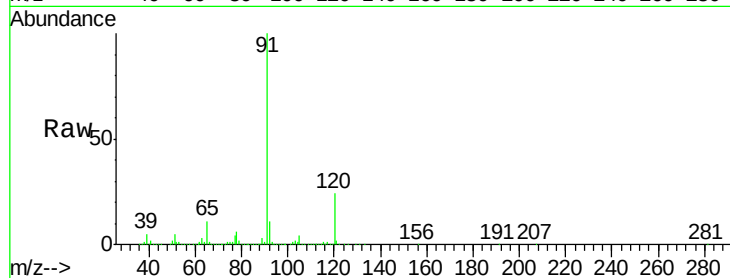
120 100

91 419.8 370.0 555.0

Manual Integrations
APPROVED

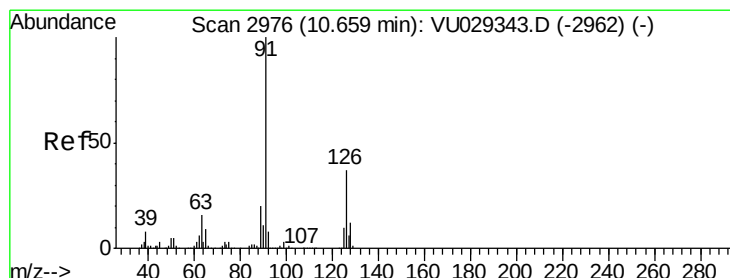
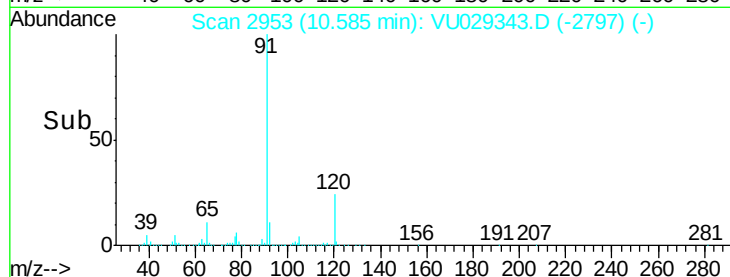
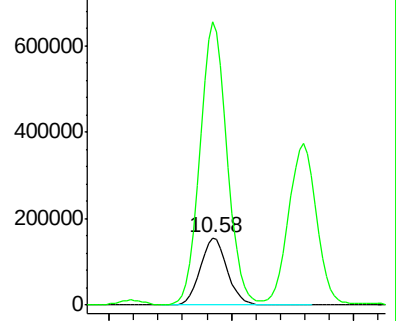
sam

2/8/2019 2:26:24 PM



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 10.420 ug/l

RT: 10.66 min Scan# 2976

Delta R.T. 0.00 min

Lab File: VU029343.D

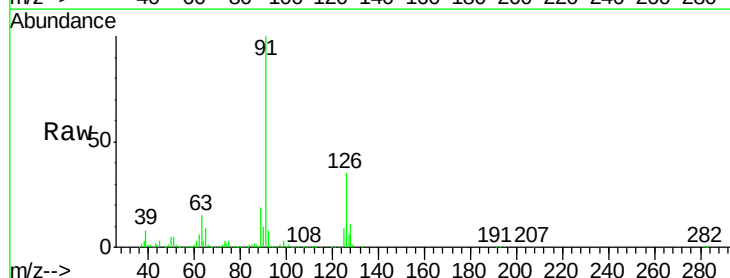
Acq: 05 Feb 2019 12:36

Tgt Ion:126 Resp: 202215

Ion Ratio Lower Upper

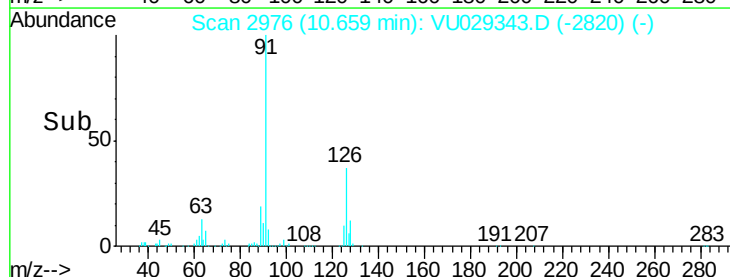
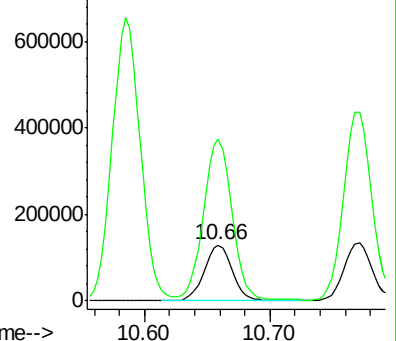
126 100

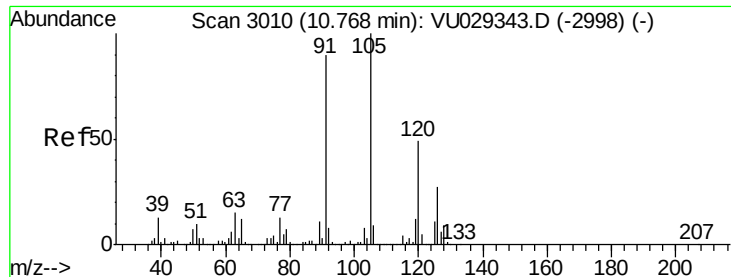
91 293.9 0.0 643.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 10.457 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 737668

Ion Ratio Lower Upper

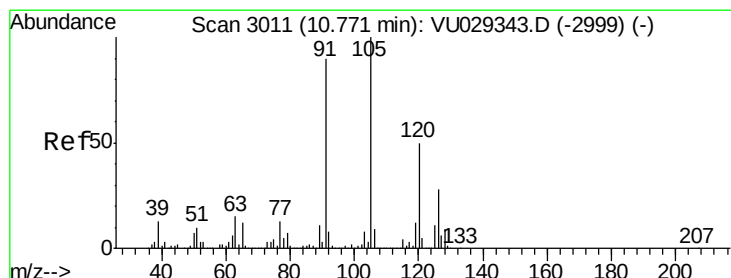
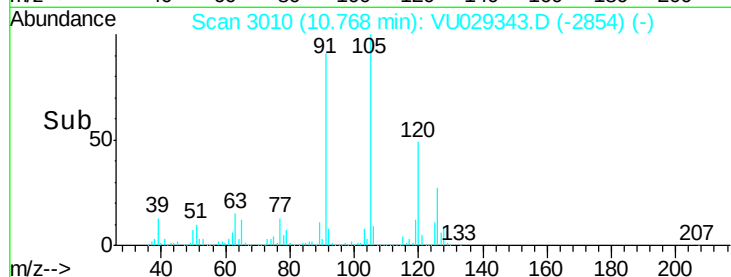
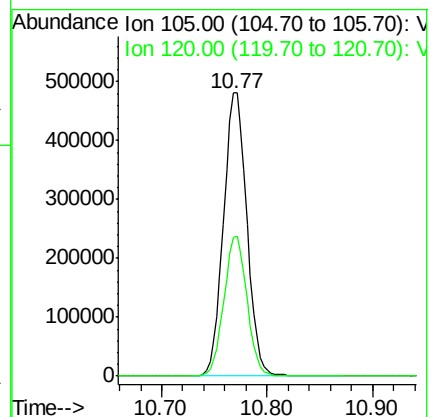
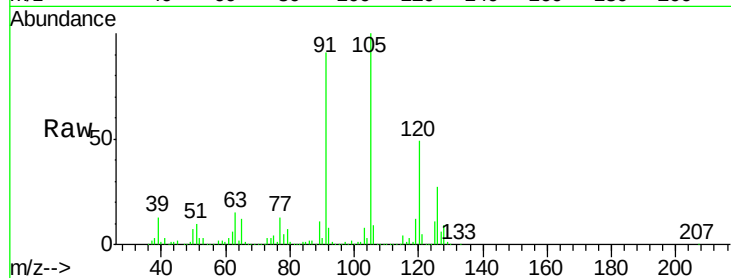
105 100

120 48.7 37.3 55.9

Manual Integrations
APPROVED

sam

2/8/2019 2:26:24 PM



#76

4-Chlorotoluene

Concen: 10.561 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU029343.D

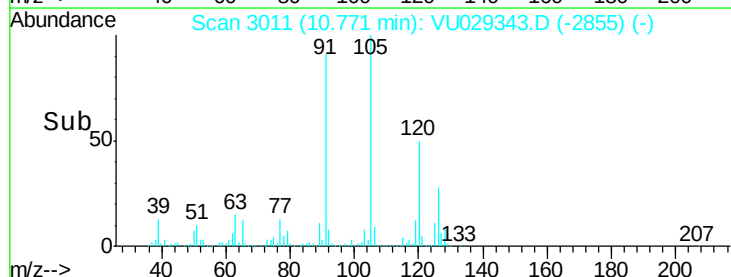
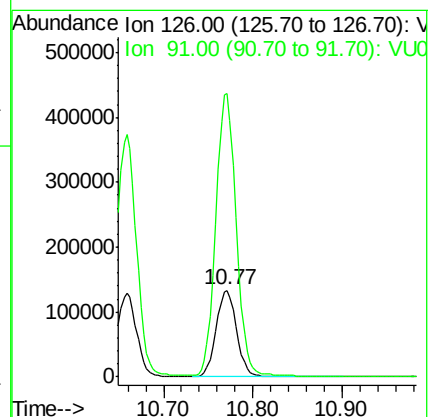
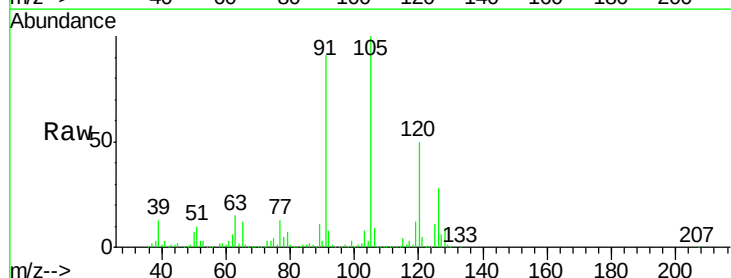
Acq: 05 Feb 2019 12:36

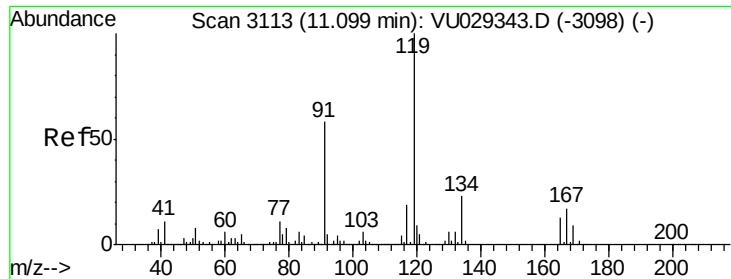
Tgt Ion:126 Resp: 212710

Ion Ratio Lower Upper

126 100

91 326.2 0.0 727.4





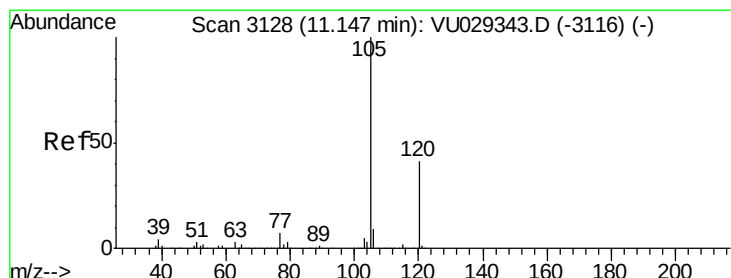
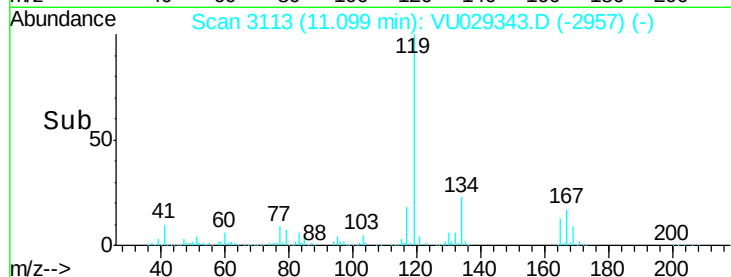
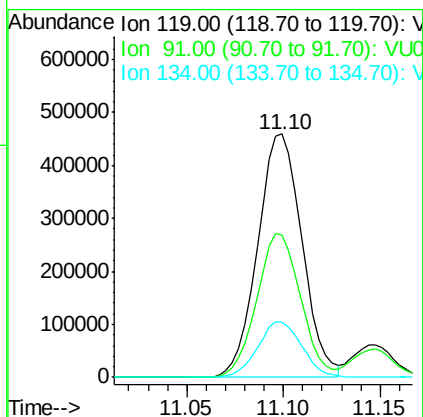
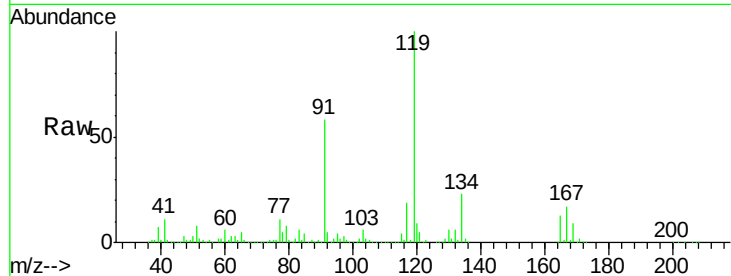
#77
 tert-Butylbenzene
 Concen: 10.486 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	58.2	32.2	96.6
134	22.9	17.6	26.4

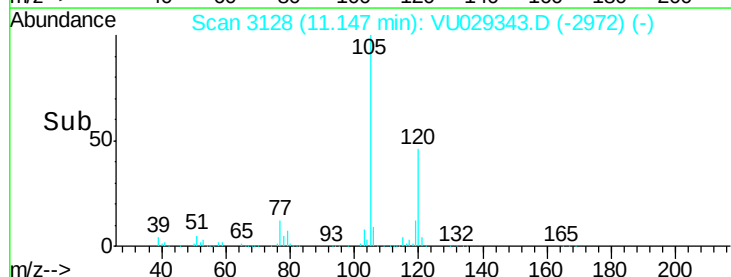
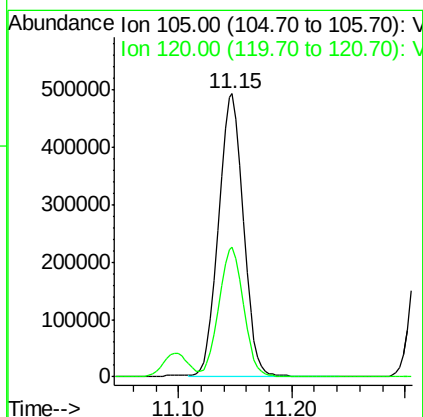
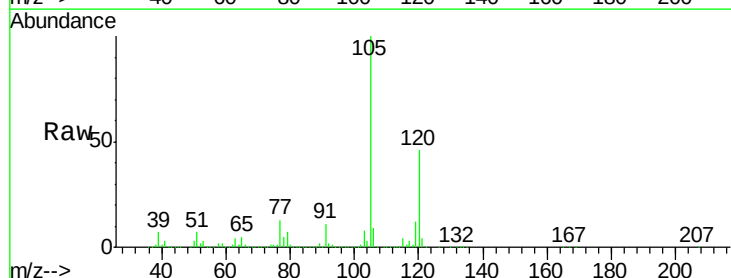
Manual Integrations
 APPROVED

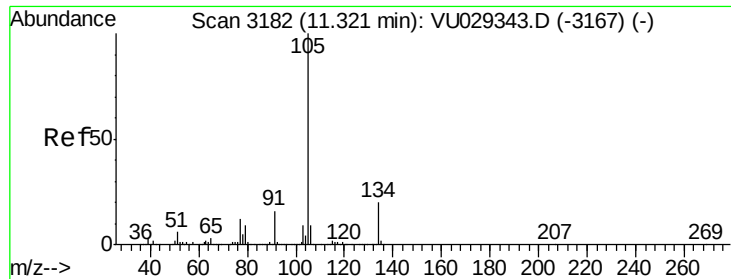
sam
 2/8/2019 2:26:24 PM



#78
 1,2,4-Trimethylbenzene
 Concen: 10.581 ug/l
 RT: 11.15 min Scan# 3128
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.4	64.3





#79

sec-Butylbenzene

Concen: 10.600 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 967084

Ion Ratio Lower Upper

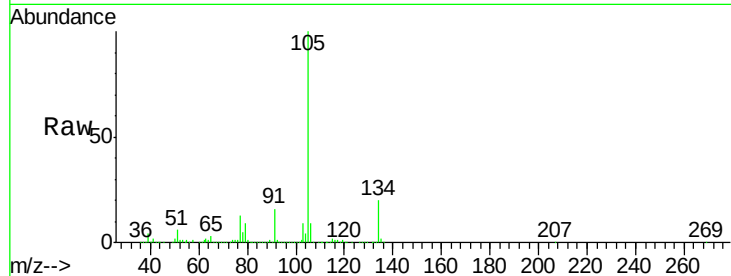
105 100

134 20.1 15.0 22.6

Manual Integrations
APPROVED

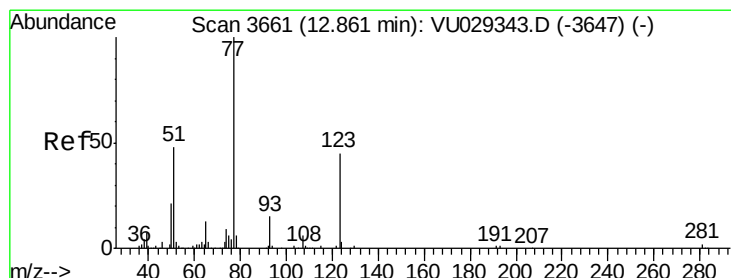
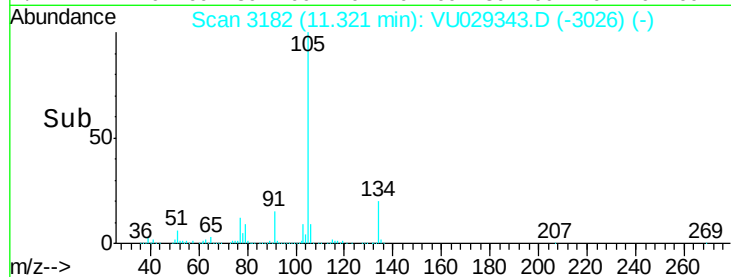
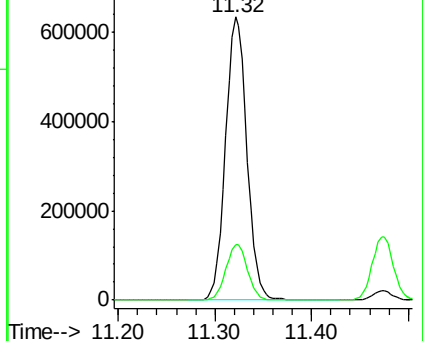
sam

2/8/2019 2:26:24 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 64.876 ug/l

RT: 12.86 min Scan# 3661

Delta R.T. 0.00 min

Lab File: VU029343.D

Acq: 05 Feb 2019 12:36

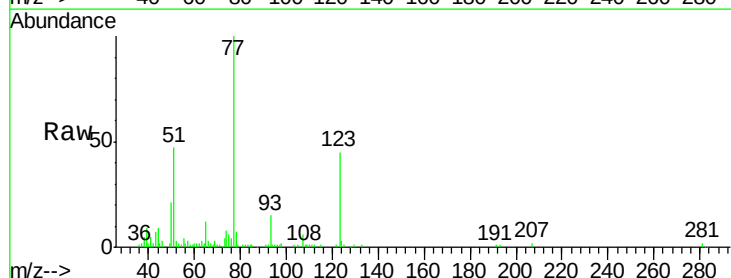
Tgt Ion: 77 Resp: 43218

Ion Ratio Lower Upper

77 100

123 41.3 17.5 61.9

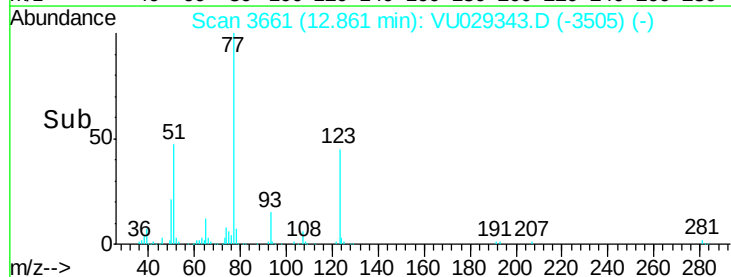
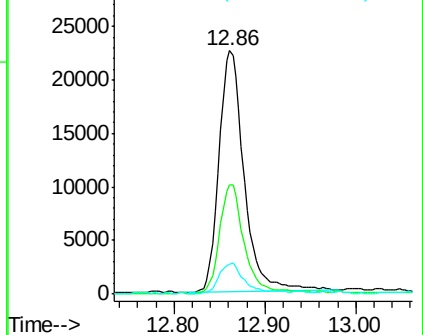
65 11.7 10.8 13.8

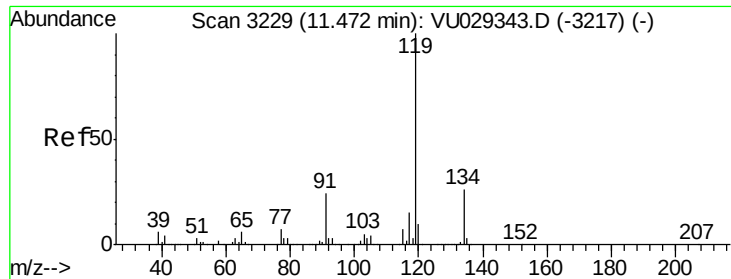


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





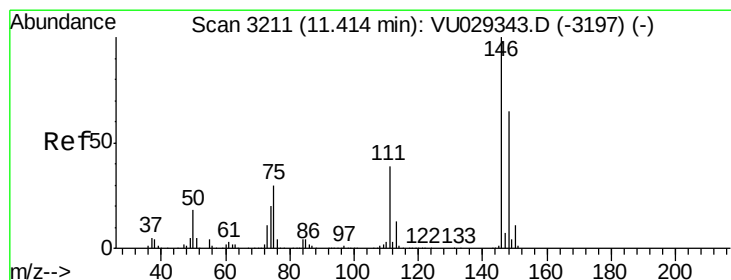
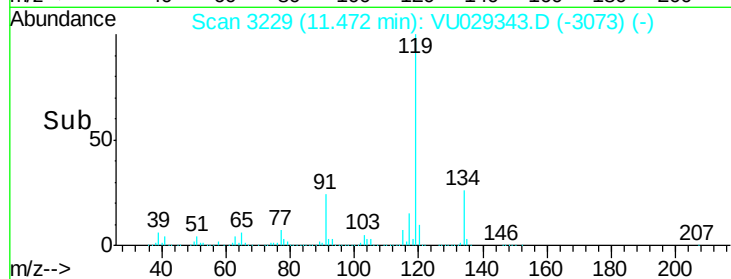
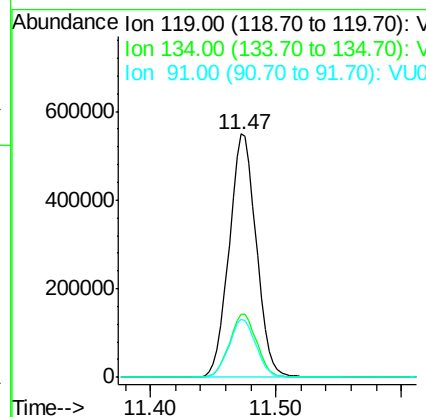
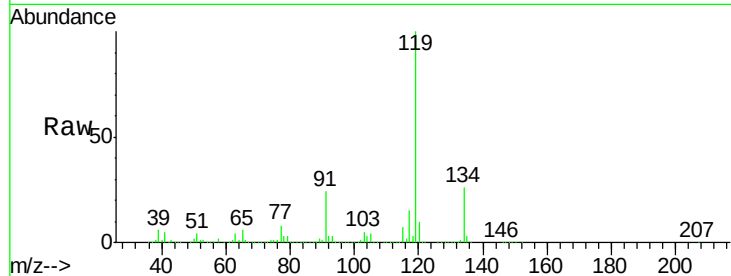
#81
 p-Isopropyltoluene
 Concen: 10.676 ug/l
 RT: 11.47 min Scan# 3229
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
119	100	825587		
134	26.3		19.8	29.6
91	23.9		21.5	32.3

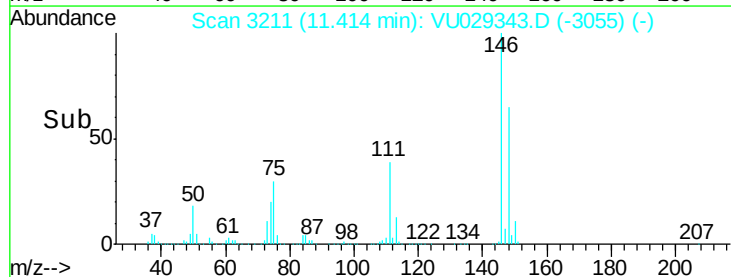
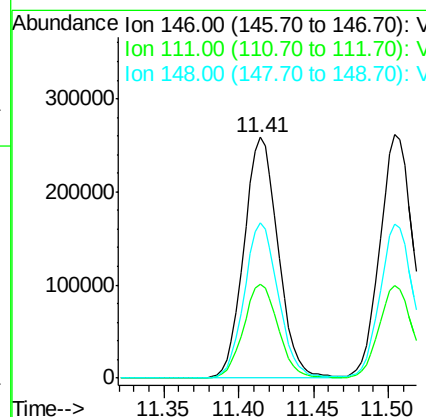
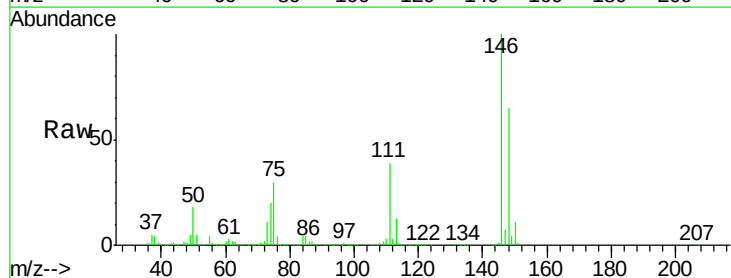
Manual Integrations
 APPROVED

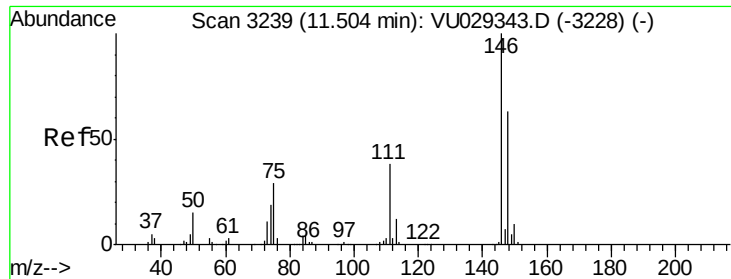
sam
 2/8/2019 2:26:24 PM



#82
 1,3-Dichlorobenzene
 Concen: 10.598 ug/l
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	412348		
111	39.1		34.1	51.1
148	63.8		52.3	78.5





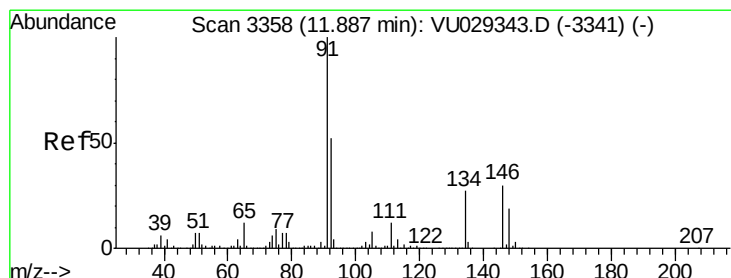
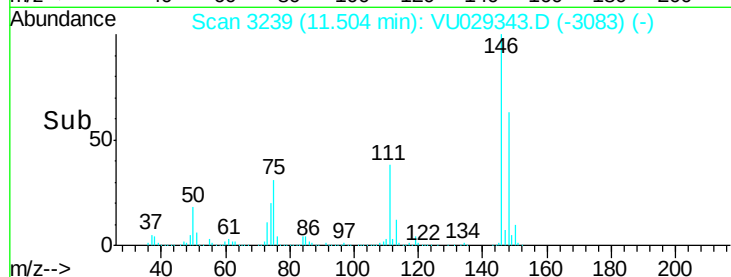
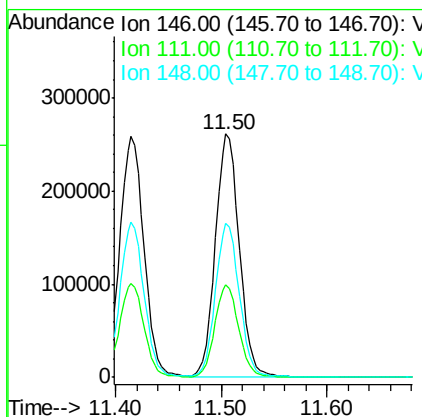
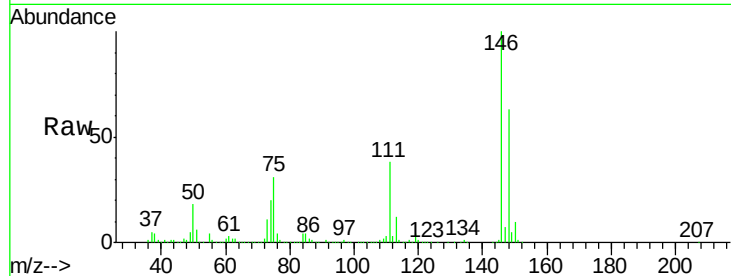
#83
 1,4-Dichlorobenzene
 Concen: 10.658 ug/l
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
146	100	412995		
111	37.7		32.9	49.3
148	63.3		51.8	77.6

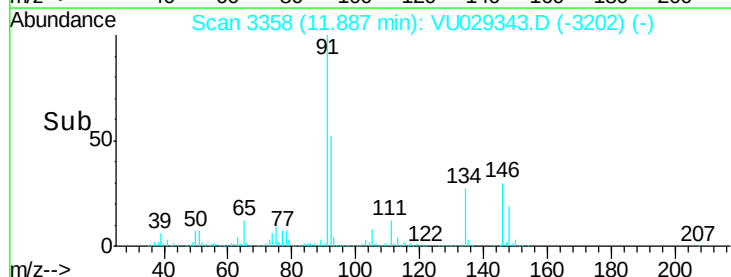
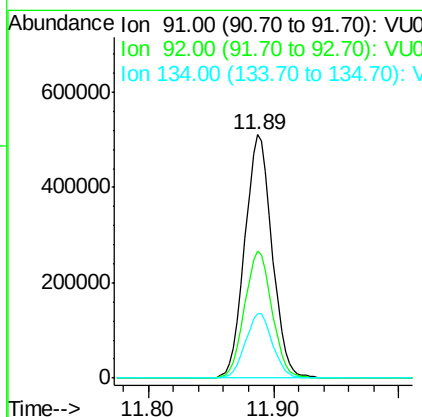
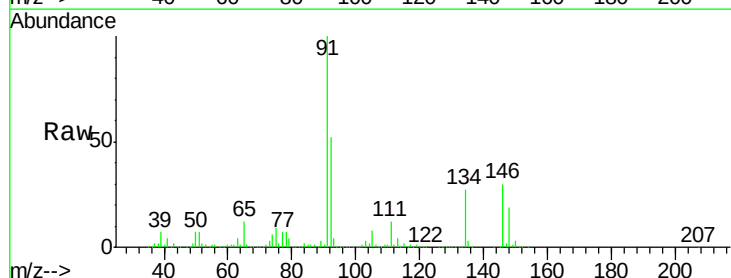
Manual Integrations
 APPROVED

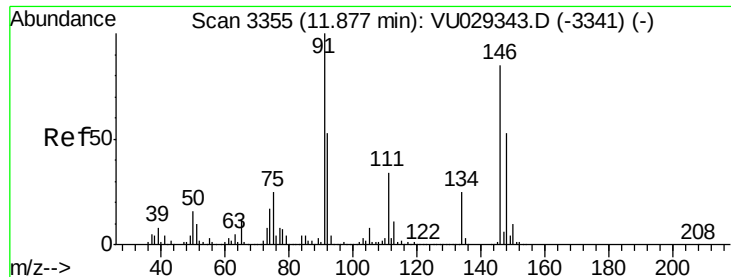
sam
 2/8/2019 2:26:24 PM



#84
 n-Butylbenzene
 Concen: 10.868 ug/l
 RT: 11.89 min Scan# 3358
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	771255		
92	52.8		41.0	61.6
134	26.7		19.1	28.7





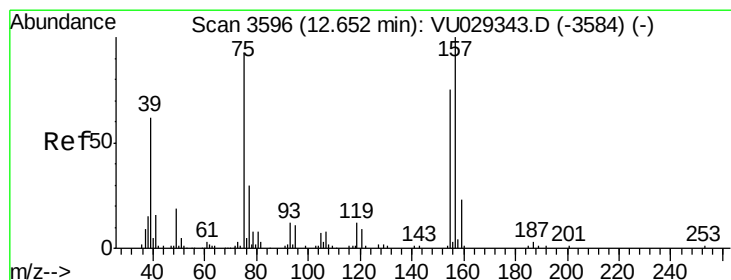
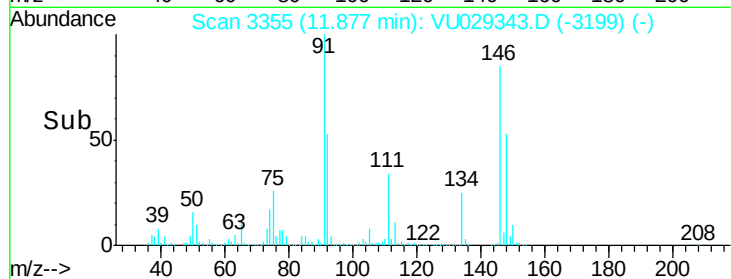
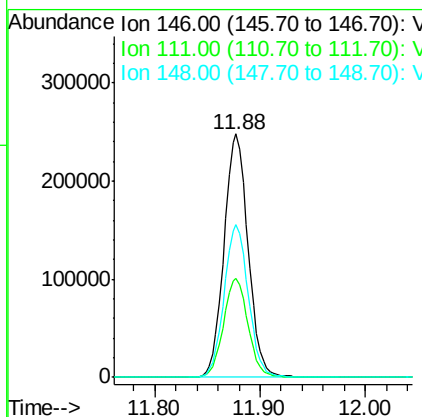
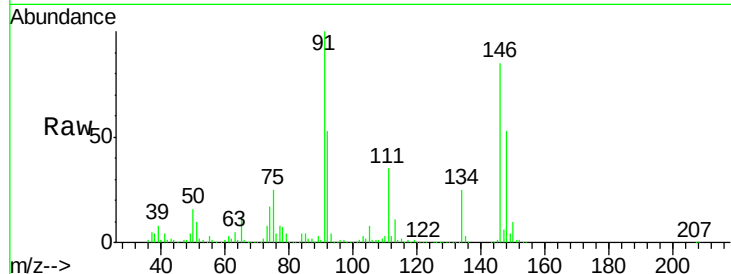
#85
 1,2-Dichlorobenzene
 Concen: 10.633 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
146	100	391177		
111	40.9	21.9	65.8	
148	63.2	31.8	95.3	

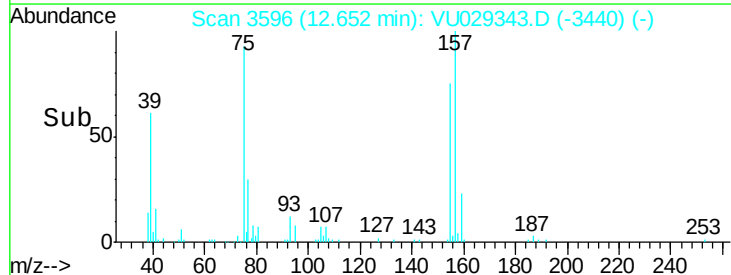
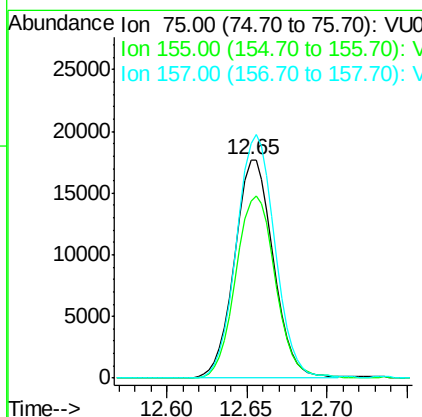
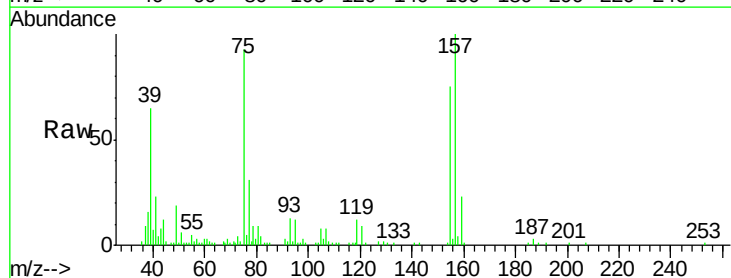
Manual Integrations
 APPROVED

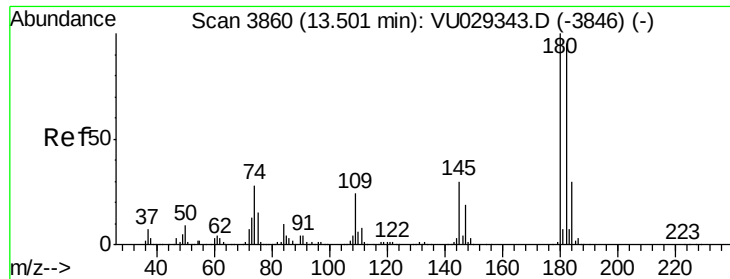
sam
 2/8/2019 2:26:24 PM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 10.386 ug/l
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	29241		
155	85.2	53.8	80.8#	
157	110.6	69.2	103.8#	





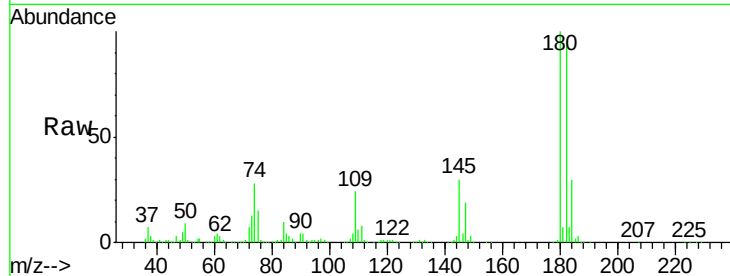
#87
 1,2,4-Trichlorobenzene
 Concen: 11.084 ug/l
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

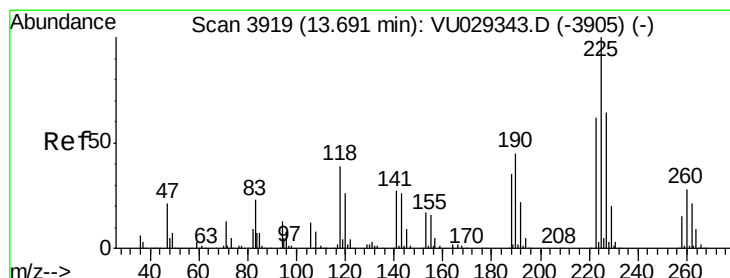
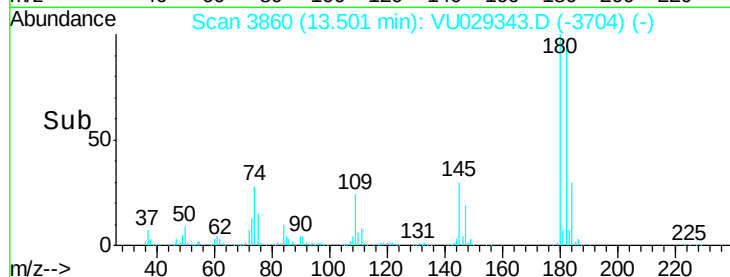
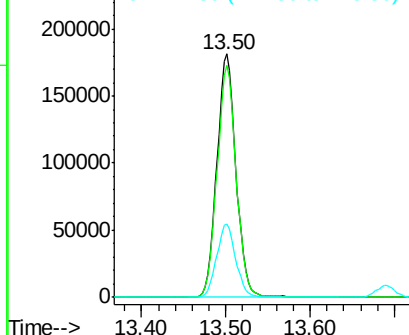
Tot Ion	Ratio	Resp	Lower	Upper
180	100	286412		
182	95.1	76.6	114.8	
145	29.9	24.6	36.8	

Manual Integrations
 APPROVED

sam
 2/8/2019 2:26:24 PM

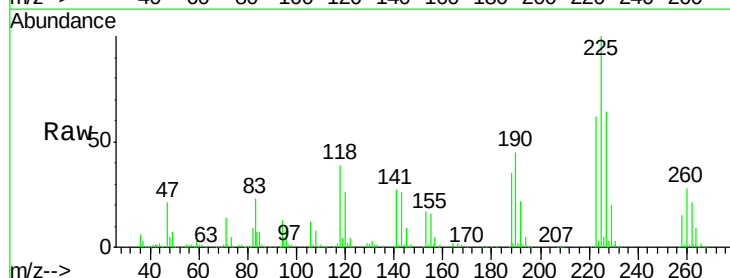


Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

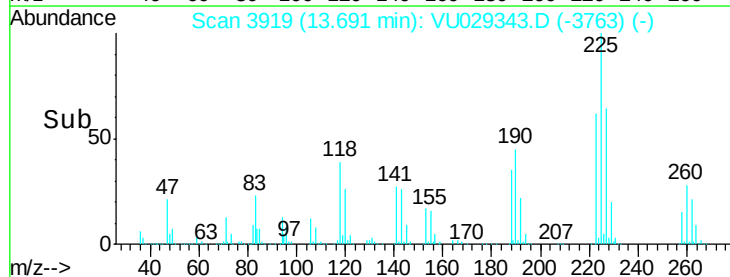
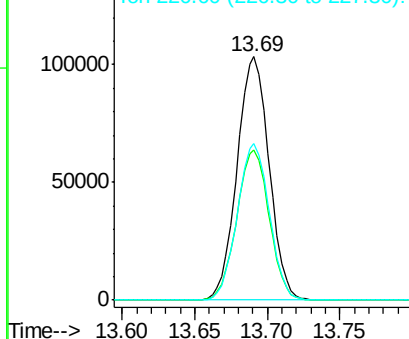


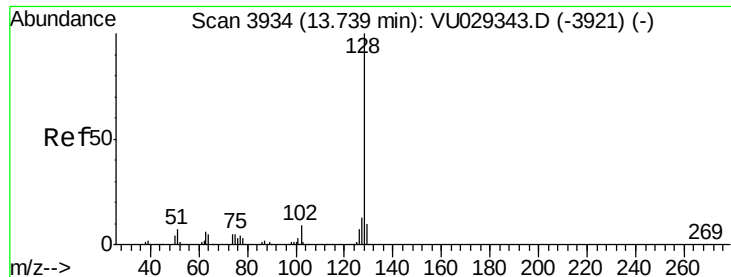
#88
 Hexachlorobutadiene
 Concen: 10.618 ug/l
 RT: 13.69 min Scan# 3919
 Delta R.T. 0.00 min
 Lab File: VU029343.D
 Acq: 05 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	158901		
223	62.3	49.5	74.3	
227	64.3	50.4	75.6	



Abundance Ion 224.60 (224.30 to 225.30): V
 Ion 222.60 (222.30 to 223.30): V
 Ion 226.60 (226.30 to 227.30): V





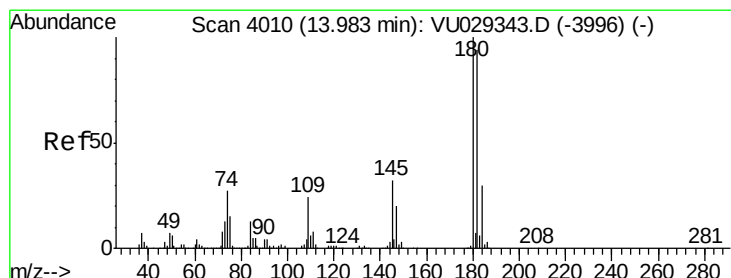
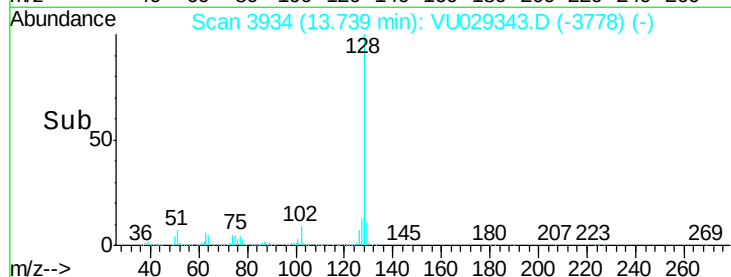
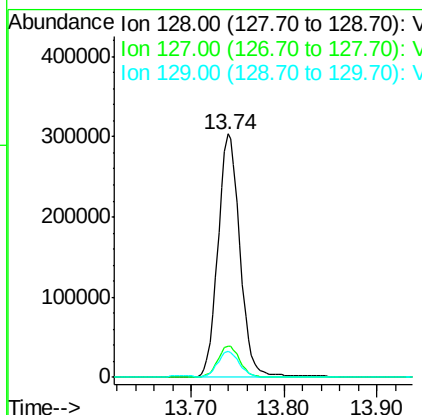
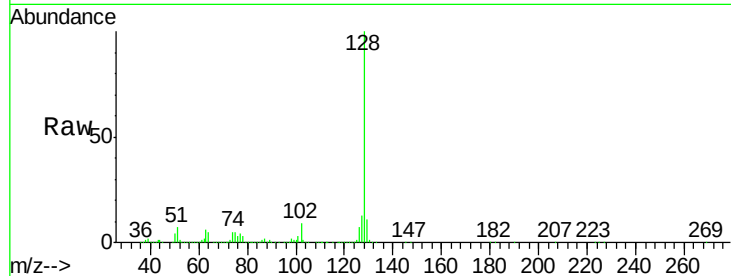
#89
Naphthalene
Concen: 11.435 ug/l
RT: 13.74 min Scan# 3934
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tot Ion:	128	Resp:	501127
Ion Ratio		Lower	Upper
128	100		
127	13.1	10.7	16.1
129	10.3	8.2	12.4

Manual Integrations
APPROVED

sam
2/8/2019 2:26:24 PM



#90
1,2,3-Trichlorobenzene
Concen: 10.859 ug/l
RT: 13.98 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VU029343.D
Acq: 05 Feb 2019 12:36

Tgt Ion:	180	Resp:	256448
Ion Ratio		Lower	Upper
180	100		
182	95.0	78.0	117.0
145	31.9	26.6	39.8

