

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U020519\
 Data File : VU029347.D
 Acq On : 05 Feb 2019 14:53
 Operator : JC/SP
 Sample : VSTDICV010
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDICV010

Manual Integrations
 APPROVED

sam
 2/8/2019 2:26:35 PM

Quant Time: Feb 08 11:13:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	53384	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	20838	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	22703	1.06	ug/l	0.00
Spiked Amount 1.000			Recovery	=	106.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	98197	4.929	ug/l	98
3) Chloromethane	1.33	50	132306	7.267	ug/l	98
4) Vinyl Chloride	1.40	62	168888	7.913	ug/l	98
5) Bromomethane	1.63	94	108776	9.163	ug/l	95
6) Chloroethane	1.70	64	112830	9.049	ug/l	97
7) Trichlorofluoromethane	1.88	101	274052	9.195	ug/l	97
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	162028	10.296	ug/l	91
9) 1,1-Dichloroethene	2.28	96	155215	10.079	ug/l	76
10) Iodomethane	2.41	142	194037	8.466	ug/l #	79
11) Allyl Chloride	2.59	41	256328	9.926	ug/l	91
12) Acrylonitrile	2.94	53	176338	51.088	ug/l	98
13) Acetone	2.32	43	196050	58.935	ug/l #	86
14) Carbon Disulfide	2.48	76	495593	9.114	ug/l	99
15) Methylene Chloride	2.70	84	174617	9.351	ug/l #	81
16) trans-1,2-Dichloroethene	2.98	96	172207	10.000	ug/l	82
17) 1,1-Dichloroethane	3.44	63	267604	9.806	ug/l	97
18) 2-Butanone	4.28	43	210158	56.525	ug/l	97
19) Cyclohexane	4.99	56	246187m	9.729	ug/l	
20) Methylcyclohexane	6.41	83	274634	10.334	ug/l	88
21) 2,2-Dichloropropane	4.22	77	254376	10.070	ug/l	93
22) cis-1,2-Dichloroethene	4.22	96	169219	10.431	ug/l	81
23) Diethyl Ether	2.10	59	120573	9.750	ug/l	90
24) tert-Butyl Alcohol	2.84	59	65491	50.959	ug/l	97
25) Methyl tert-Butyl Ether	3.00	73	451188	10.405	ug/l #	87
26) Bromochloromethane	4.54	128	70695	9.865	ug/l	76
27) Chloroform	4.67	83	275809	10.392	ug/l	97
28) 1,1,1-Trichloroethane	4.91	97	258367	10.503	ug/l	96
29) 1,1-Dichloropropene	5.13	75	215785	10.105	ug/l	94
30) Carbon Tetrachloride	5.13	117	233514	10.486	ug/l	100
31) Isopropyl Ether	3.58	45	446700	10.848	ug/l #	1
34) Propionitrile	4.33	54	111807	114.407	ug/l #	92
35) Benzene	5.39	78	612004	10.363	ug/l	99
36) 1,2-Dichloroethane	5.40	62	183082	10.250	ug/l #	93
37) Trichloroethene	6.18	130	178009	10.504	ug/l	88
38) 1,2-Dichloropropane	6.43	63	160219	10.429	ug/l	100
39) Methacrylonitrile	4.55	41	51302	10.251	ug/l	92
40) Methyl acrylate	4.43	55	77125	10.209	ug/l #	88
41) Tetrahydrofuran	4.65	42	127453	50.557	ug/l	88
42) 1-Chlorobutane	5.06	56	291330	10.182	ug/l	91
43) Dibromomethane	6.56	93	83482	10.197	ug/l	92
44) Bromodichloromethane	6.76	83	217511	10.427	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020519\
 Data File : VU029347.D
 Acq On : 05 Feb 2019 14:53
 Operator : JC/SP
 Sample : VSTDICV010
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDICV010

Manual Integrations
 APPROVED

sam
 2/8/2019 2:26:35 PM

Quant Time: Feb 08 11:13:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.46	43	496936	51.782	ug/l #	93
46) t-1,4-Dichloro-2-butene	10.51	75	51131m	10.936	ug/l	
47) Methyl methacrylate	6.62	69	83093	11.536	ug/l #	78
48) Ethyl methacrylate	8.02	69	163266	10.565	ug/l	83
49) Toluene	7.63	92	400497	10.598	ug/l	100
50) t-1,3-Dichloropropene	7.88	75	224869	10.997	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	257715	10.610	ug/l	92
52) 1,1,2-Trichloroethane	8.06	97	115336	10.642	ug/l	99
53) 1,3-Dichloropropane	8.24	76	203956	10.712	ug/l	98
54) 2-Hexanone	8.36	43	364162	54.136	ug/l	90
55) Dibromochloromethane	8.48	129	161765	10.501	ug/l	99
56) 1,2-Dibromoethane	8.58	107	116136	10.444	ug/l	99
58) Tetrachloroethene	8.22	164	170270	10.798	ug/l	94
59) Chlorobenzene	9.12	112	464260	10.906	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.21	131	170709	10.853	ug/l	97
61) Pentachloroethane	11.10	117	133164	10.923	ug/l	85
62) Hexachloroethane	12.14	117	148701	11.175	ug/l	99
63) Ethyl Benzene	9.25	91	798633	10.803	ug/l	95
64) m/p-Xylenes	9.37	106	629657	21.916	ug/l	90
65) o-Xylene	9.78	106	307306	10.897	ug/l	91
66) Styrene	9.79	104	502126	10.681	ug/l	95
67) Bromoform	9.95	173	104927	10.949	ug/l	99
69) Isopropylbenzene	10.16	105	834084	11.070	ug/l	96
70) 1,1,2,2-Tetrachloroethane	10.46	83	145524	10.476	ug/l	98
71) 1,2,3-Trichloropropane	10.49	75	109779m	11.508	ug/l	
72) Bromobenzene	10.45	156	206410	11.303	ug/l	87
73) n-propylbenzene	10.58	120	233116	11.109	ug/l	83
74) 2-Chlorotoluene	10.66	126	198290	11.097	ug/l	83
75) 1,3,5-Trimethylbenzene	10.77	105	721891	11.113	ug/l	96
76) 4-Chlorotoluene	10.77	126	209403	11.291	ug/l	82
77) tert-Butylbenzene	11.10	119	706900	11.010	ug/l	94
78) 1,2,4-Trimethylbenzene	11.15	105	733440	11.153	ug/l	96
79) sec-Butylbenzene	11.32	105	896109	10.667	ug/l	96
80) Nitrobenzene	12.87	77	6938	11.210	ug/l #	84
81) p-Isopropyltoluene	11.47	119	799455	11.226	ug/l	95
82) 1,3-Dichlorobenzene	11.41	146	399253	11.143	ug/l	97
83) 1,4-Dichlorobenzene	11.50	146	400432	11.222	ug/l	98
84) n-Butylbenzene	11.89	91	745956	11.415	ug/l	96
85) 1,2-Dichlorobenzene	11.88	146	369455	10.906	ug/l	97
86) 1,2-Dibromo-3-Chloropropan	12.65	75	27615	10.652	ug/l #	71
87) 1,2,4-Trichlorobenzene	13.50	180	280606	11.792	ug/l	99
88) Hexachlorobutadiene	13.69	225	159018	11.539	ug/l	98
89) Naphthalene	13.74	128	479339	11.878	ug/l	99
90) 1,2,3-Trichlorobenzene	13.98	180	249357	11.467	ug/l	99

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

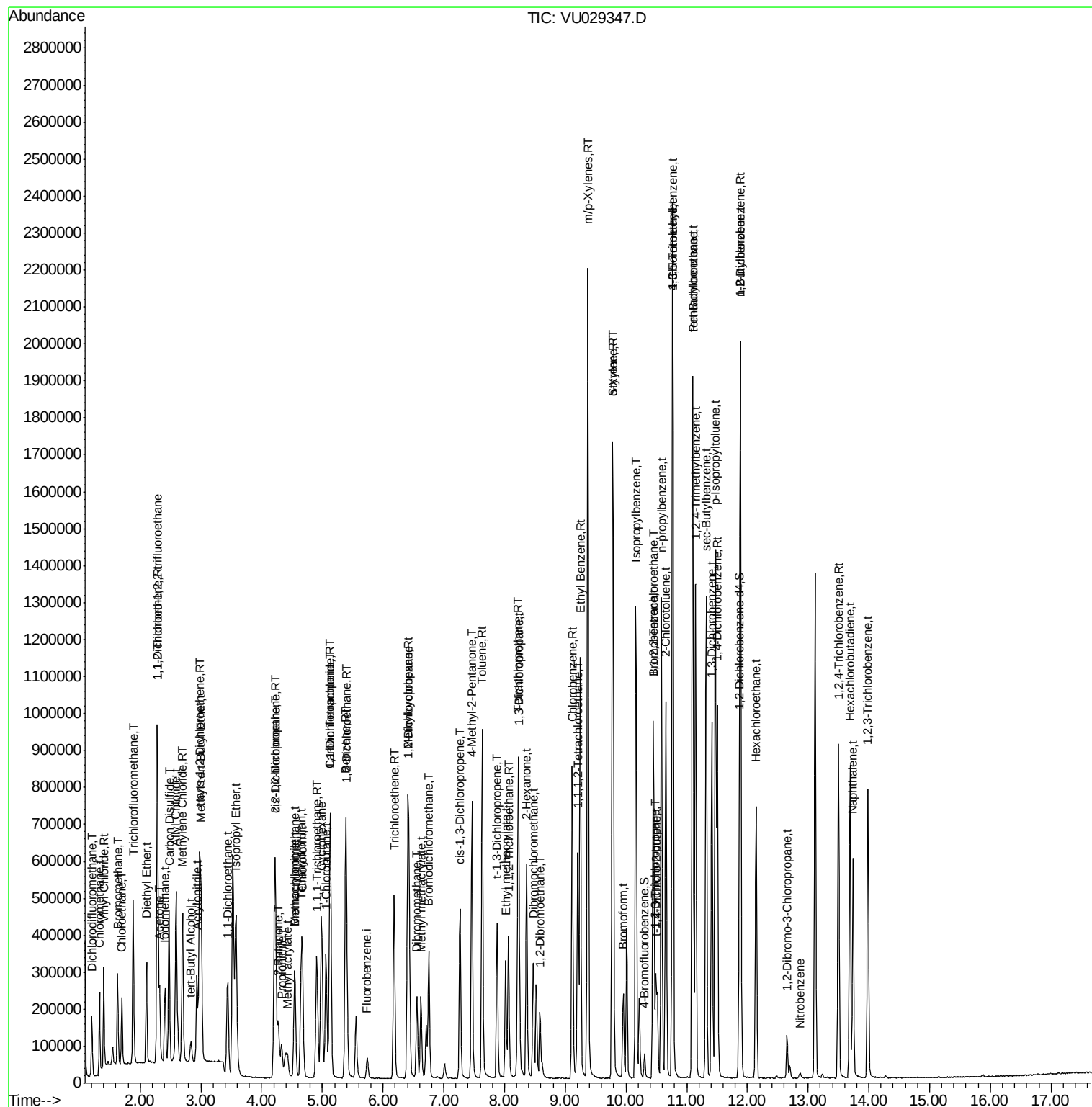
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU020519\
Data File : VU029347.D
Acq On : 05 Feb 2019 14:53
Operator : JC/SP
Sample : VSTDICV010
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

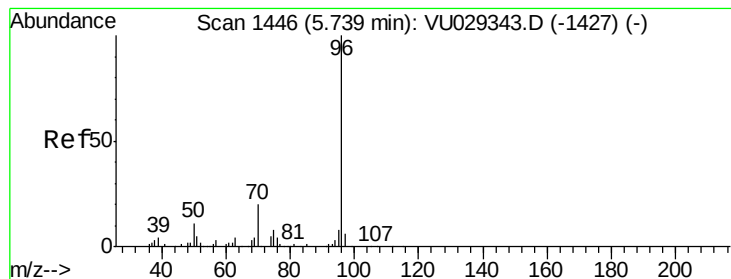
Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM

Quant Time: Feb 08 11:13:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Feb 08 10:52:46 2019
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

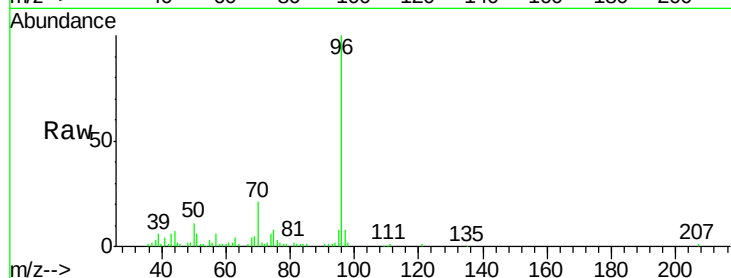
ClientSampleId :

VSTDICV010

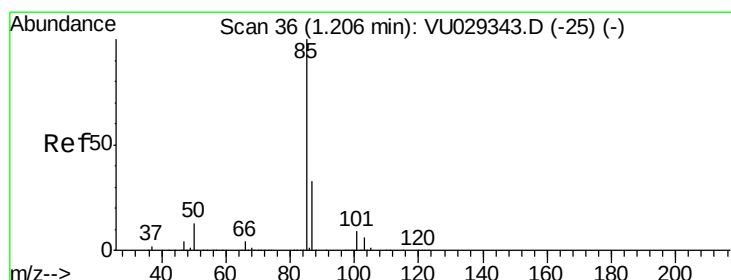
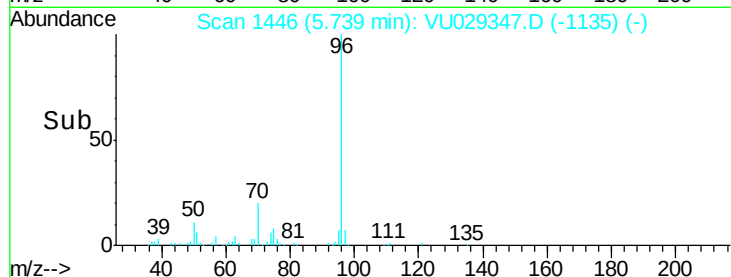
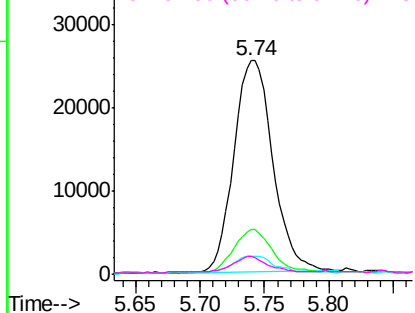
Tot Ion:	96	Resp:	53384
Ion	Ratio	Lower	Upper
96	100		
70	19.7	16.2	24.2
95	8.0	7.4	11.2
97	0.0	0.0	0.0

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 70.00 (69.70 to 70.70): VU0
Ion 95.00 (94.70 to 95.70): VU0
Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 4.929 ug/l

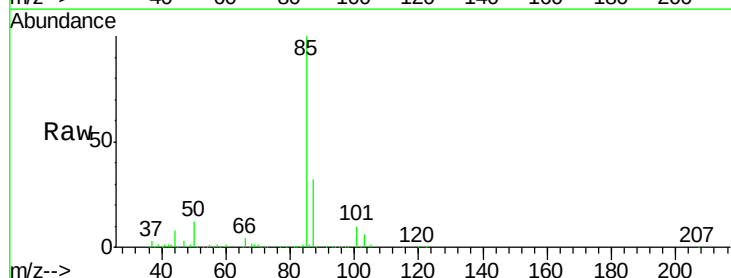
RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

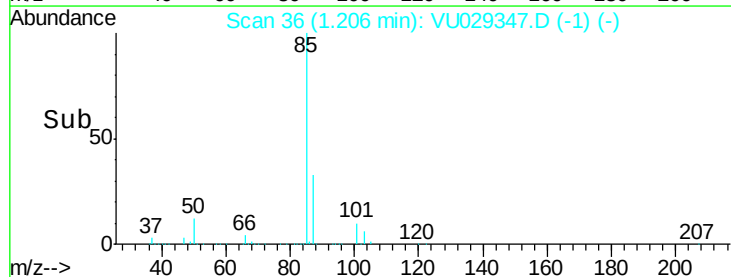
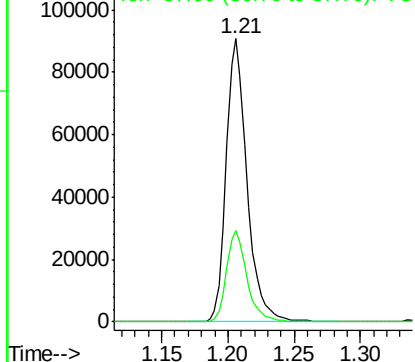
Lab File: VU029347.D

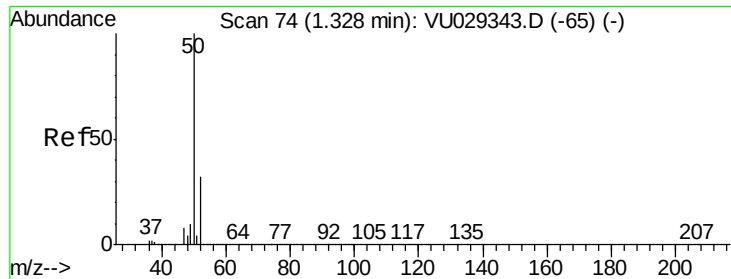
Acq: 05 Feb 2019 14:53

Tgt Ion:	85	Resp:	98197
Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.9	47.6



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 7.267 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion: 50 Resp: 132306

Ion Ratio Lower Upper

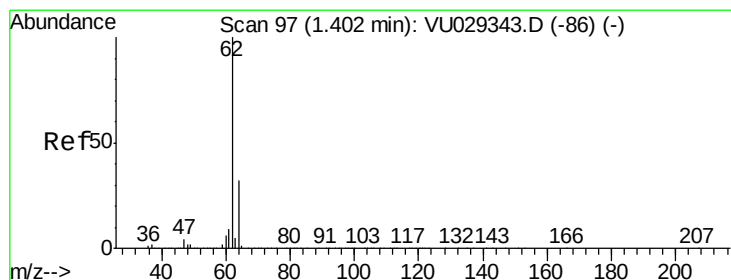
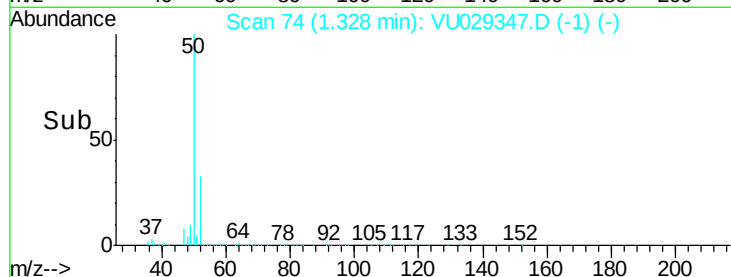
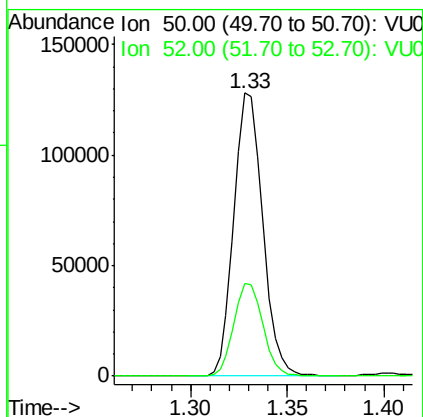
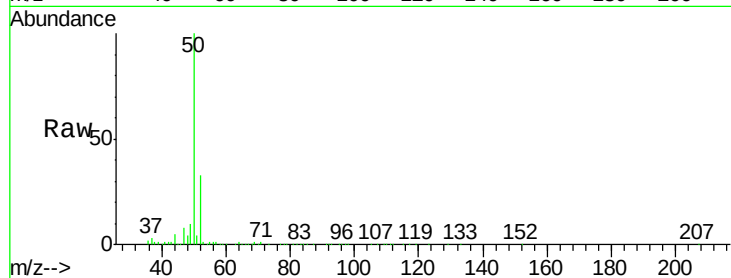
50 100

52 32.8 27.3 40.9

Manual Integrations
APPROVED

sam

2/8/2019 2:26:35 PM



#4

Vinyl Chloride

Concen: 7.913 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029347.D

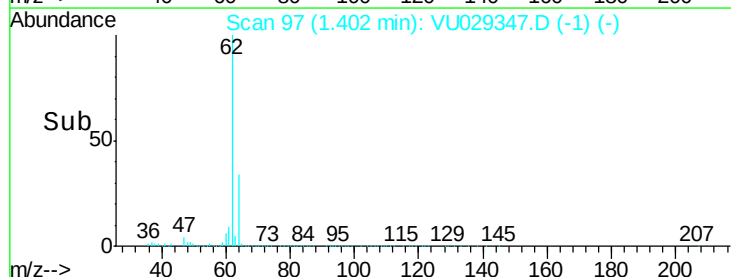
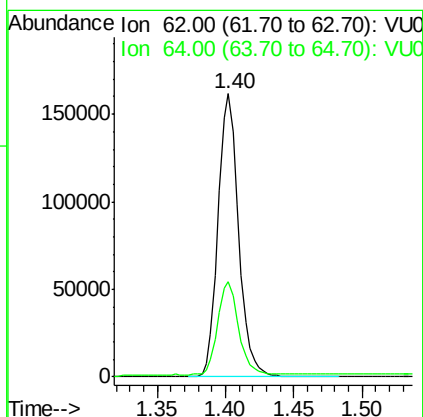
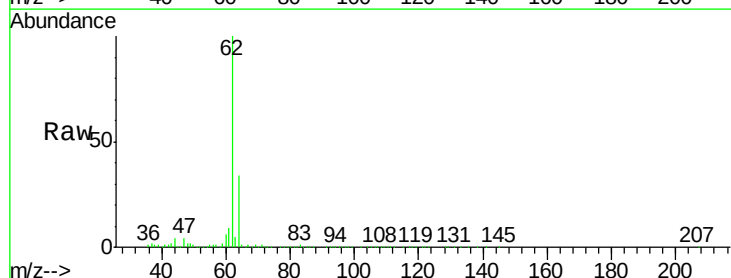
Acq: 05 Feb 2019 14:53

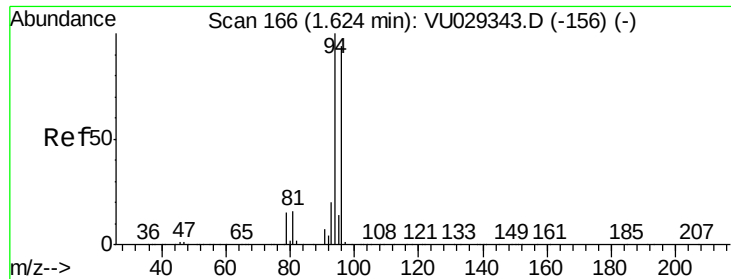
Tgt Ion: 62 Resp: 168888

Ion Ratio Lower Upper

62 100

64 32.7 25.2 37.8





#5

Bromomethane

Concen: 9.163 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion: 94 Resp: 108776

Ion Ratio Lower Upper

94 100

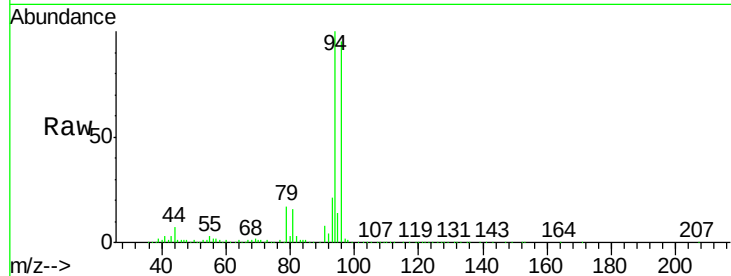
96 94.2 71.7 107.5

Manual Integrations

APPROVED

sam

2/8/2019 2:26:35 PM



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.63

80000

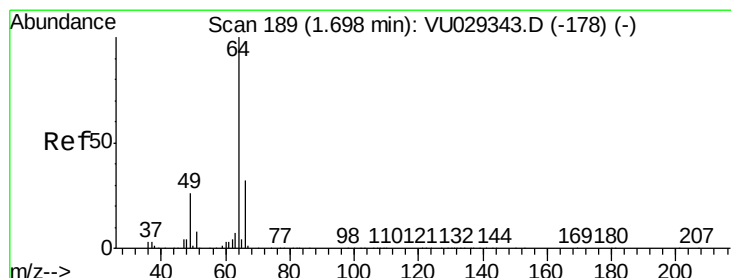
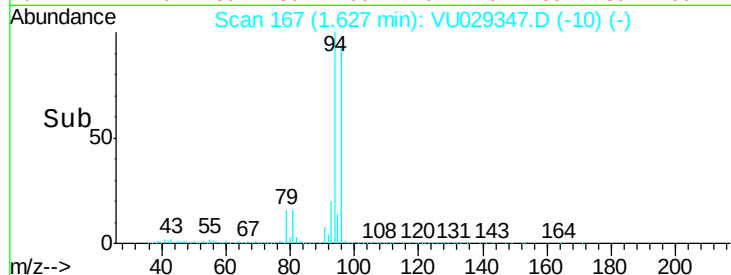
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 9.049 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029347.D

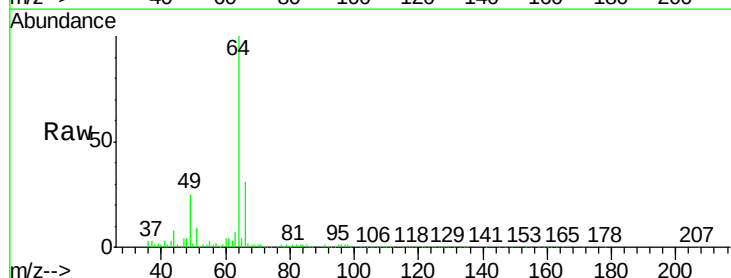
Acq: 05 Feb 2019 14:53

Tgt Ion: 64 Resp: 112830

Ion Ratio Lower Upper

64 100

66 31.2 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

1.70

100000

80000

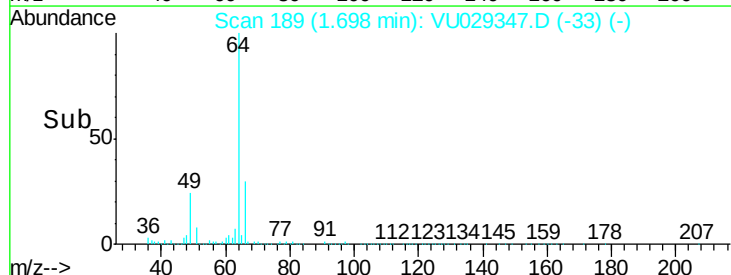
60000

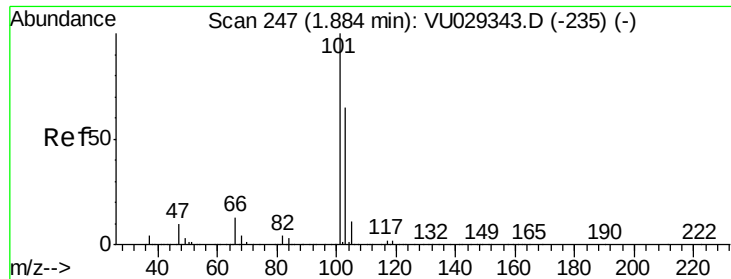
40000

20000

0

Time-->





#7

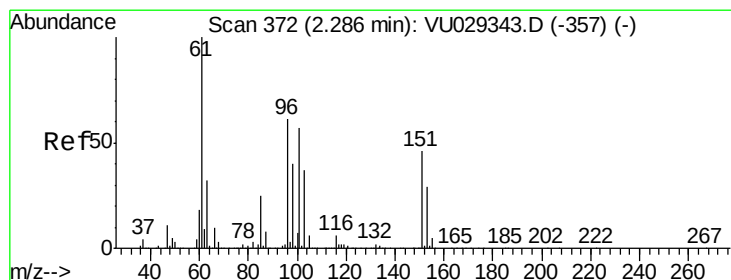
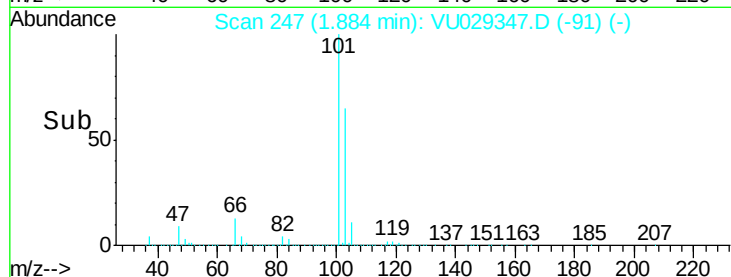
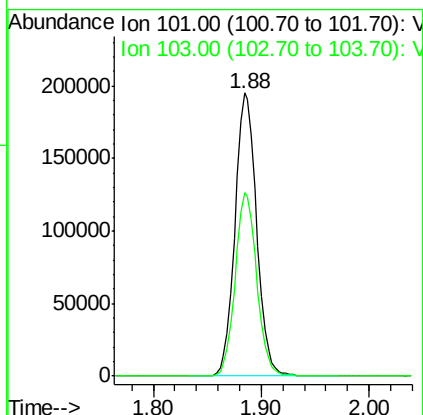
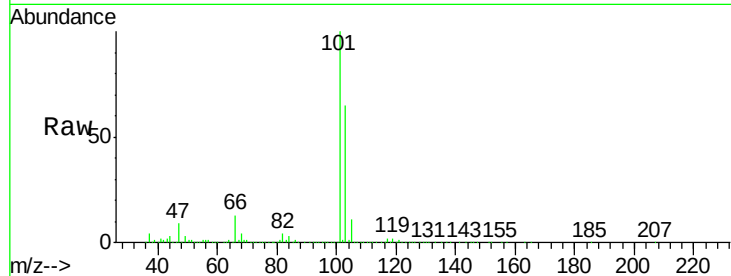
Trichlorofluoromethane
Concen: 9.195 ug/l
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ratio	Resp	Lower	Upper
101	100	274052		
103	64.8	53.9	80.9	

Manual Integrations
APPROVED

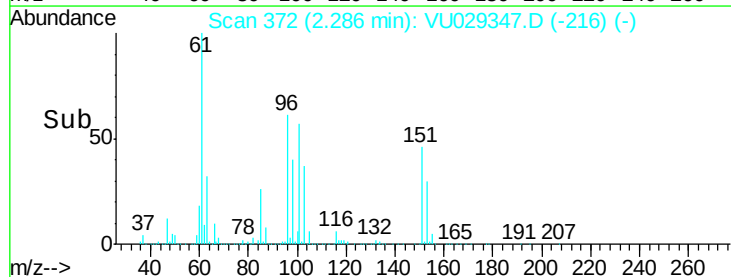
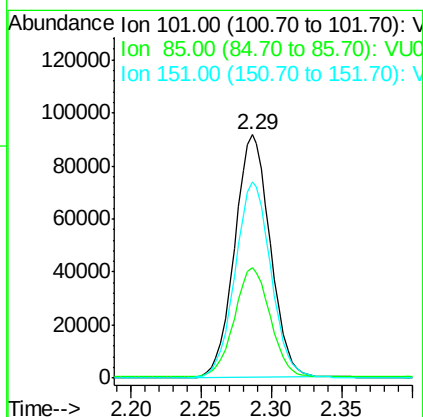
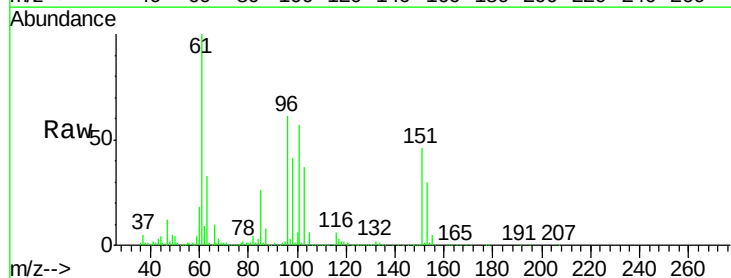
sam
2/8/2019 2:26:35 PM

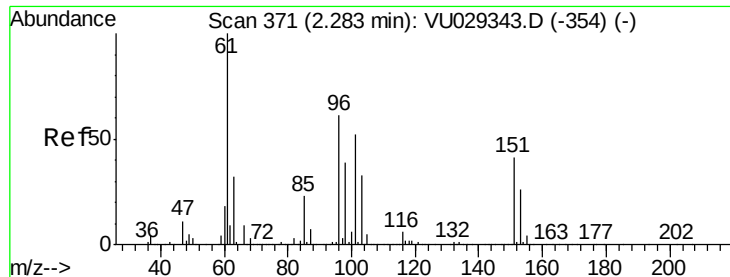


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 10.296 ug/l
RT: 2.29 min Scan# 372
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	162028		
85	45.3	40.3	60.5	
151	81.3	58.1	87.1	





#9

1,1-Dichloroethene

Concen: 10.079 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

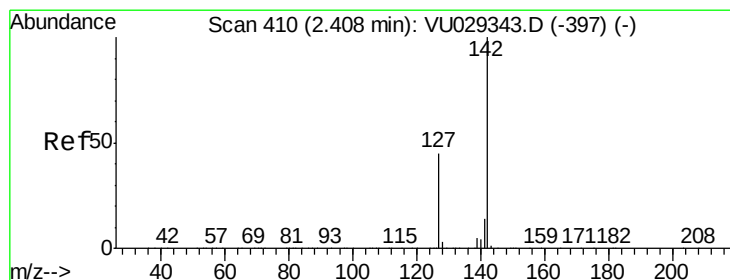
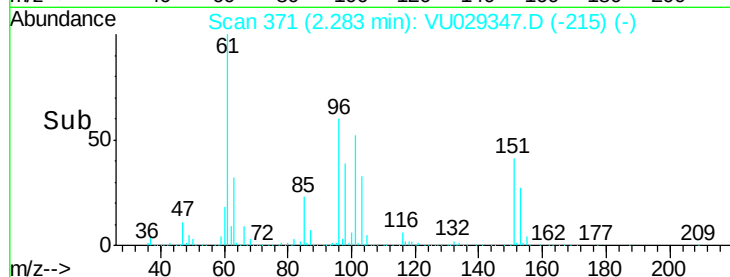
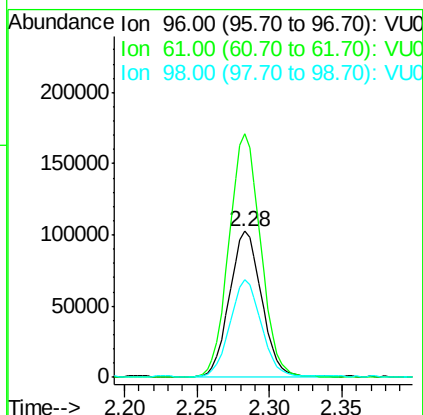
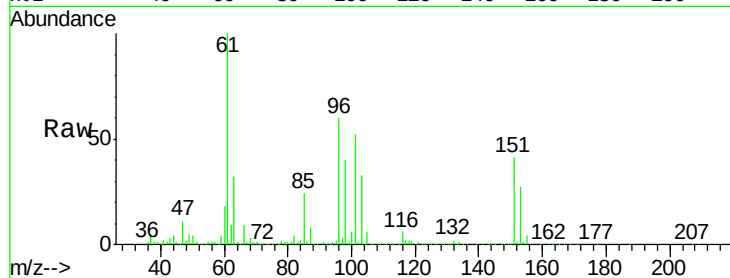
ClientSampleId :

VSTDICV010

Tot Ion:	96	Resp:	155215
Ion Ratio	Lower	Upper	
96	100		
61	167.3	0.0	641.4
98	66.2	0.0	122.6

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



#10

Iodomethane

Concen: 8.466 ug/l

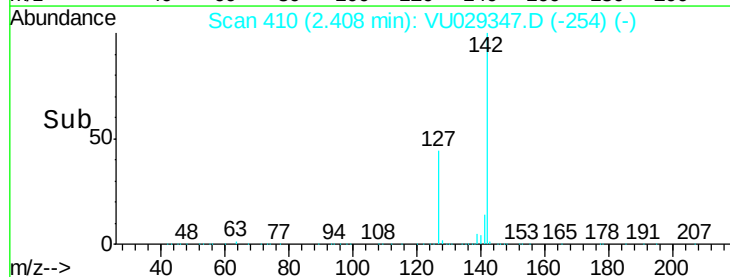
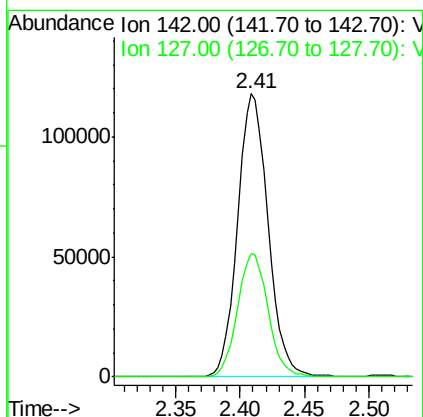
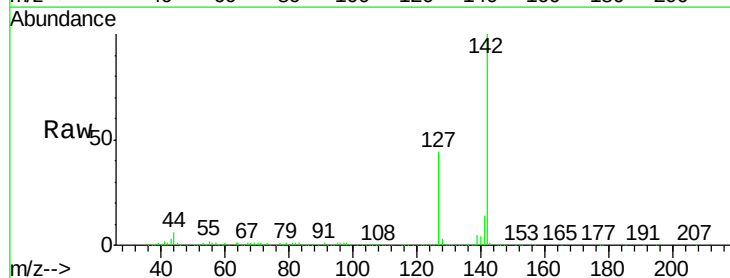
RT: 2.41 min Scan# 410

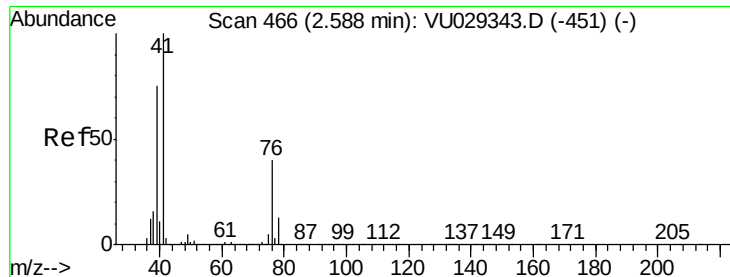
Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Tgt Ion:	142	Resp:	194037
Ion Ratio	Lower	Upper	
142	100		
127	43.5	47.6	71.4#





#11

Allvl Chloride

Concen: 9.926 ug/l

RT: 2.59 min Scan# 466

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion: 41 Resp: 256328

Ion Ratio Lower Upper

41 100

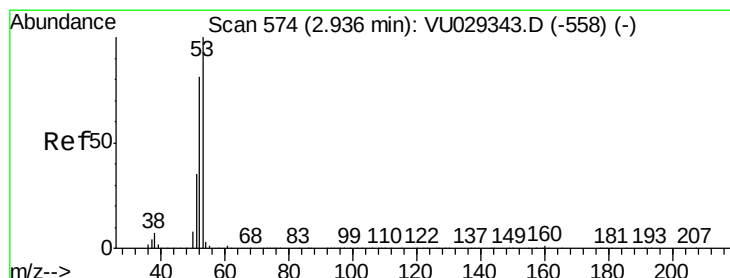
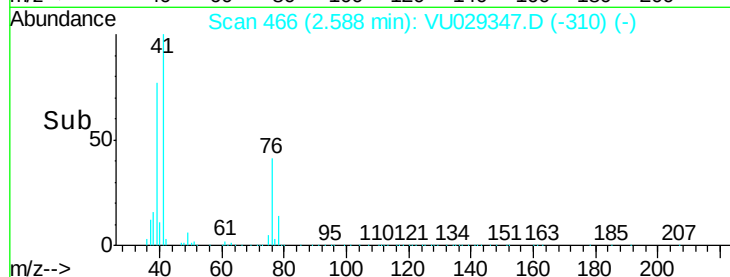
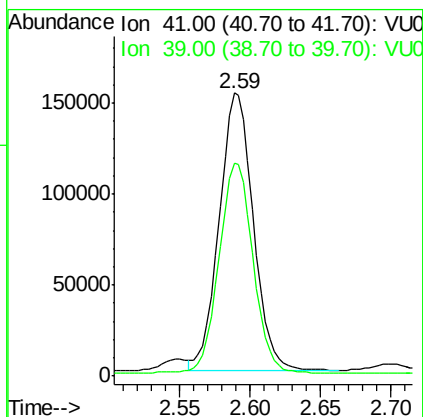
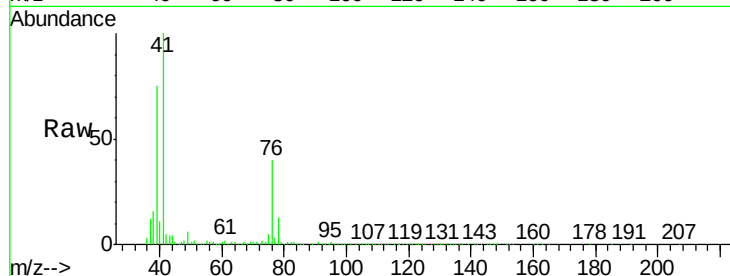
39 76.2 67.2 100.8

Manual Integrations

APPROVED

sam

2/8/2019 2:26:35 PM



#12

Acrylonitrile

Concen: 51.088 ug/l

RT: 2.94 min Scan# 574

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

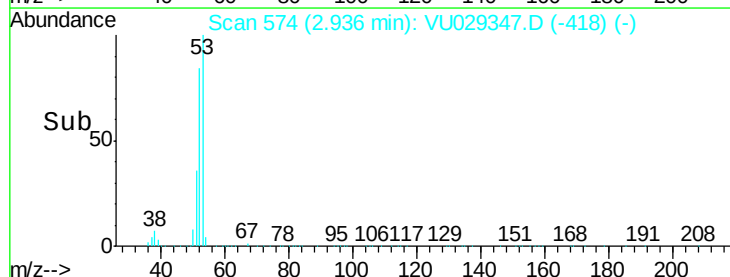
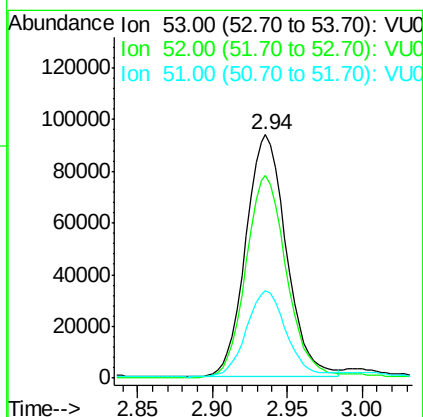
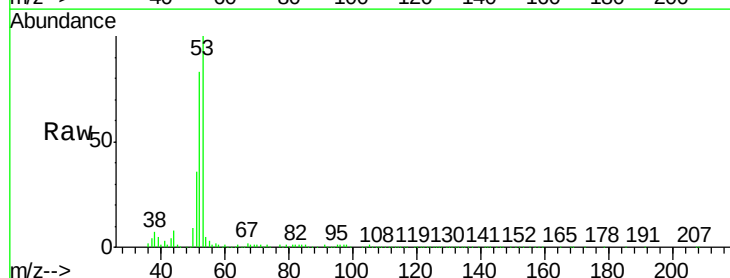
Tgt Ion: 53 Resp: 176338

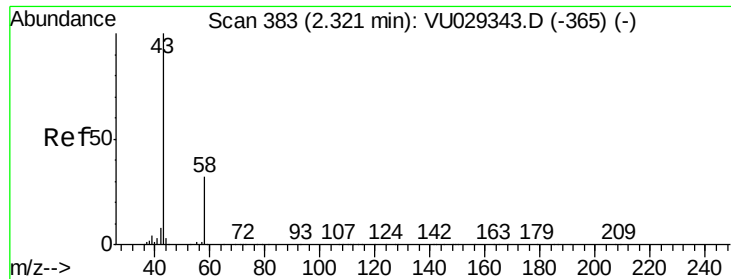
Ion Ratio Lower Upper

53 100

52 84.7 67.6 101.4

51 35.5 31.0 46.4





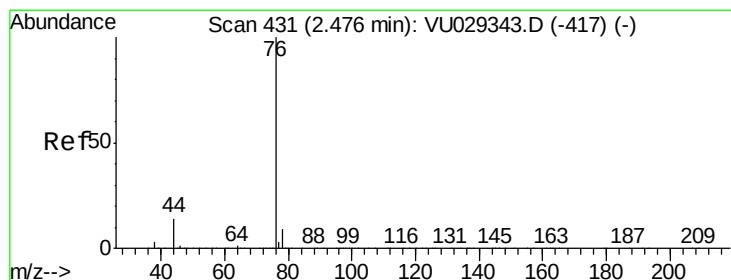
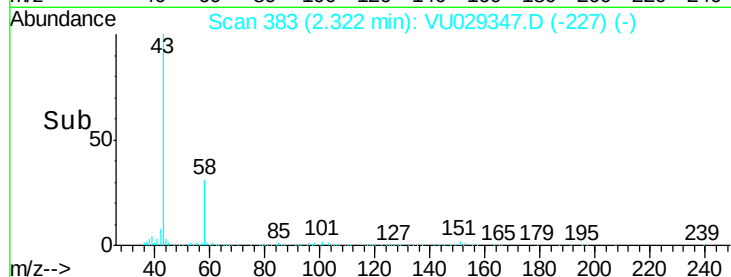
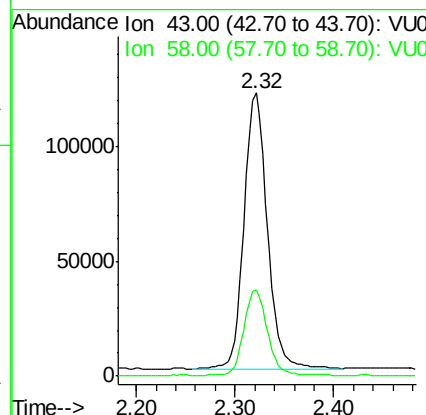
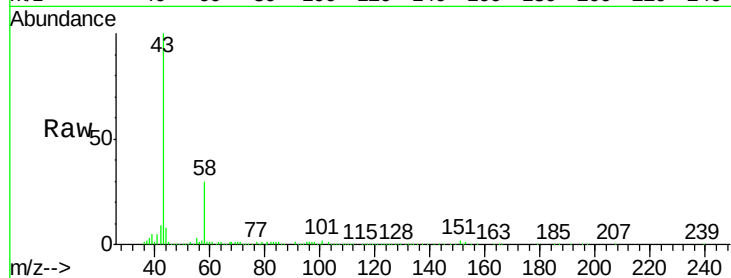
#13
Acetone
Concen: 58.935 ug/l
RT: 2.32 min Scan# 383
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ratio	Lower	Upper
43	100		
58	30.8	19.2	28.8#

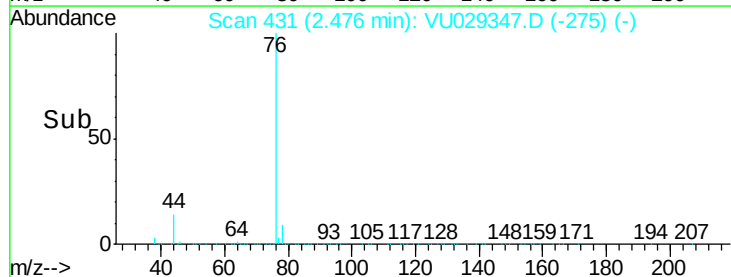
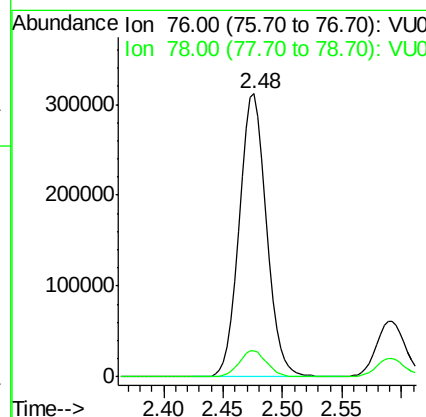
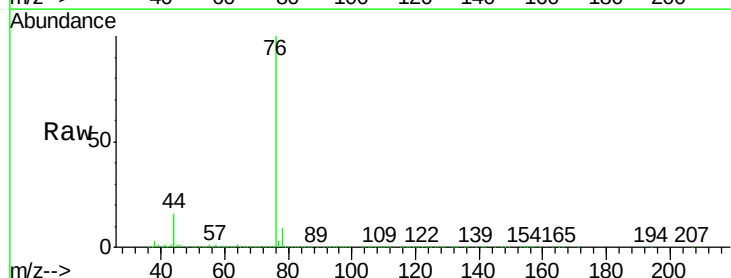
Manual Integrations
APPROVED

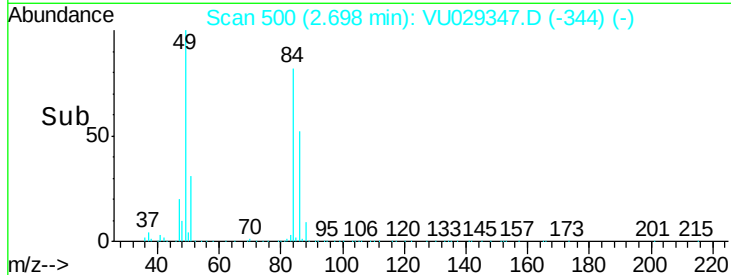
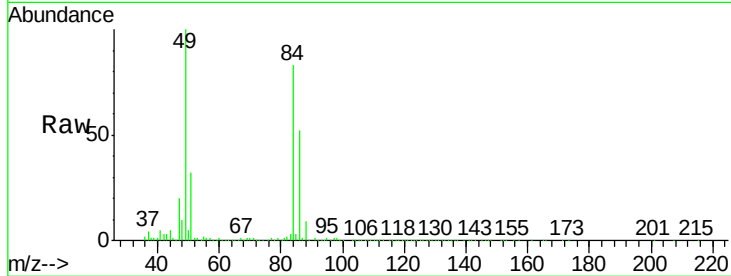
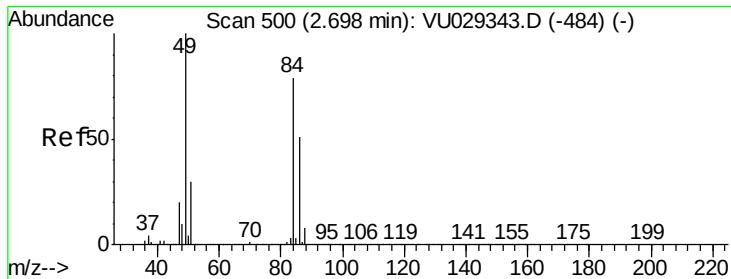
sam
2/8/2019 2:26:35 PM



#14
Carbon Disulfide
Concen: 9.114 ug/l
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.1	10.7





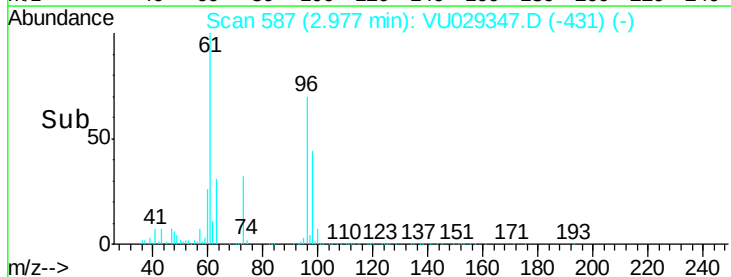
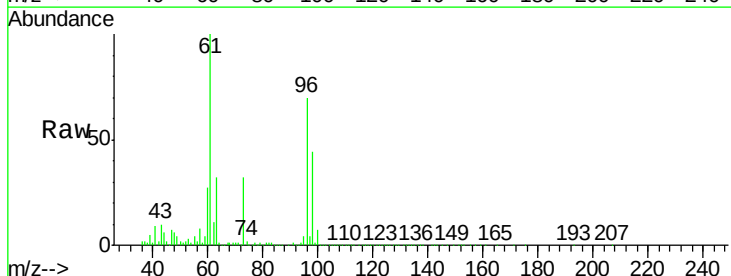
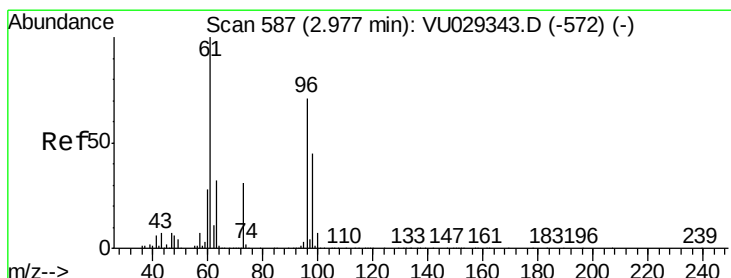
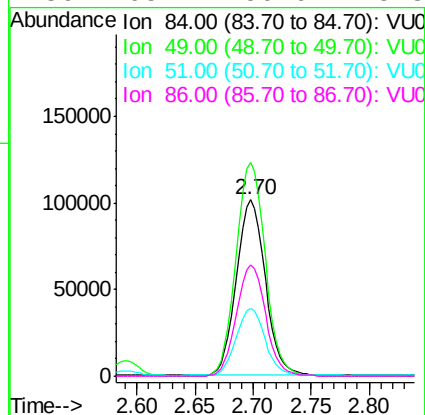
#15
Methylene Chloride
Concen: 9.351 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tot Ion:	84	Resp:	174617
Ion	Ratio	Lower	Upper
84	100		
49	121.9	127.0	190.6#
51	38.3	0.0	93.4
86	63.4	50.6	75.8

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

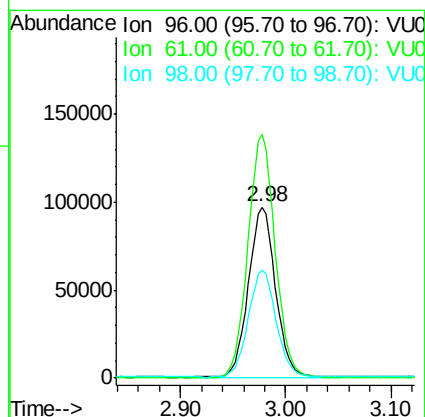
Manual Integrations
APPROVED

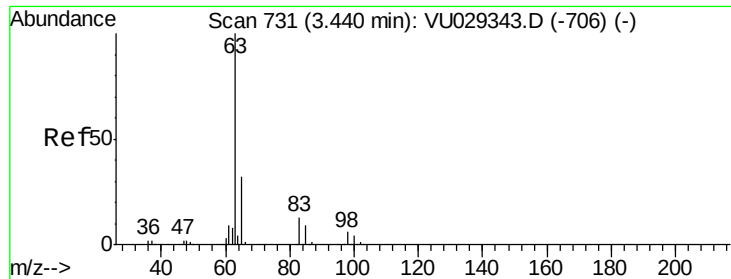
sam
2/8/2019 2:26:35 PM



#16
trans-1,2-Dichloroethene
Concen: 10.000 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion:	96	Resp:	172207
Ion	Ratio	Lower	Upper
96	100		
61	143.2	140.6	210.8
98	62.5	49.3	73.9





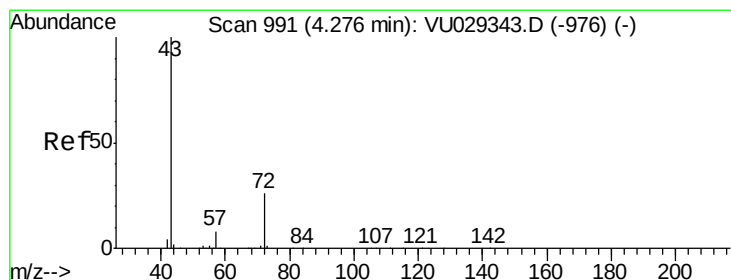
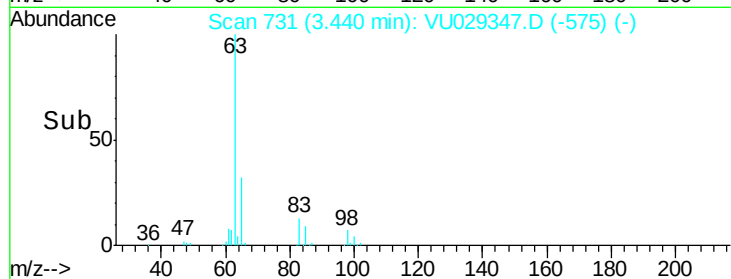
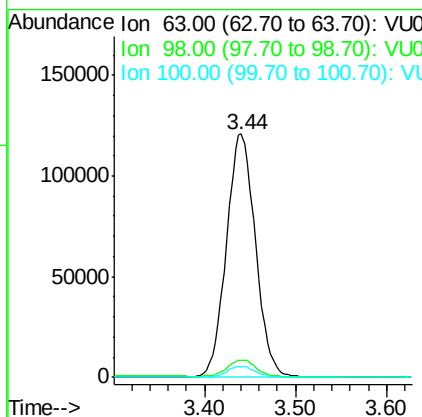
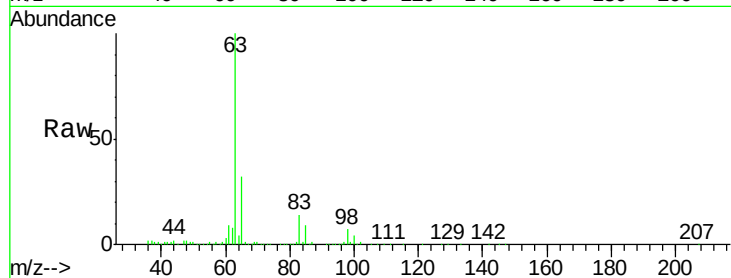
#17
 1,1-Dichloroethane
 Concen: 9.806 ug/l
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

Tot Ion	Ratio	Resp	Lower	Upper
63	100	267604		
98	6.9		2.9	8.8
100	4.5		1.7	5.1

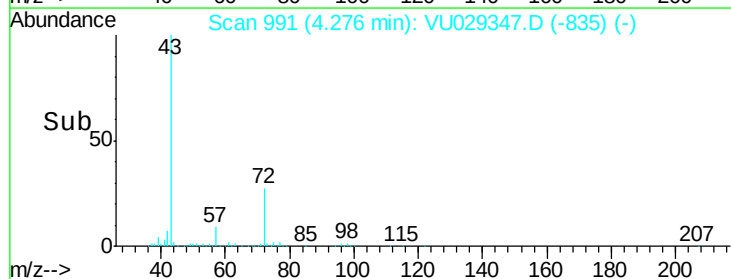
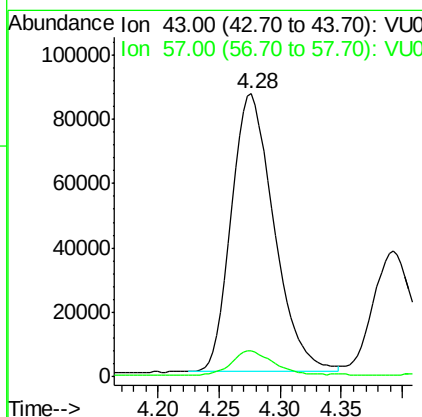
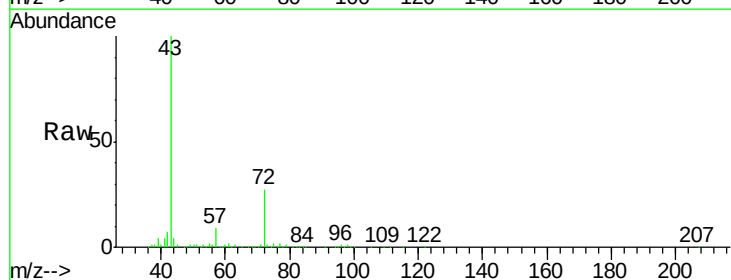
Manual Integrations
 APPROVED

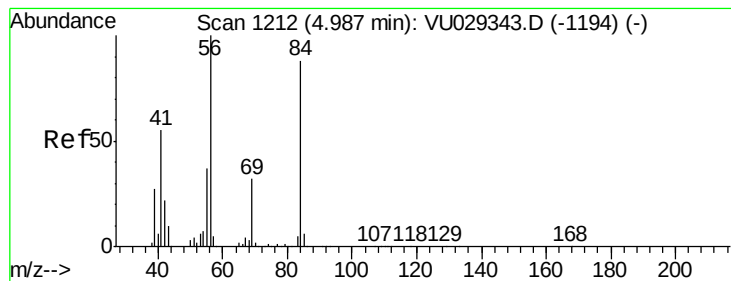
sam
 2/8/2019 2:26:35 PM



#18
 2-Butanone
 Concen: 56.525 ug/l
 RT: 4.28 min Scan# 991
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	210158		
57	8.8		0.0	15.8





#19

Cyclohexane

Concen: 9.729 ug/l m

RT: 4.99 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

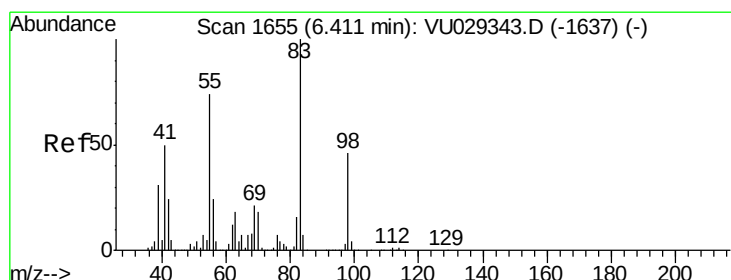
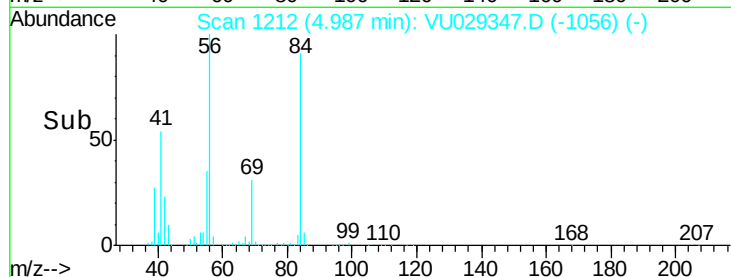
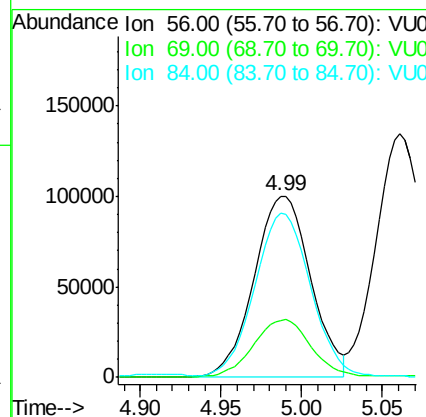
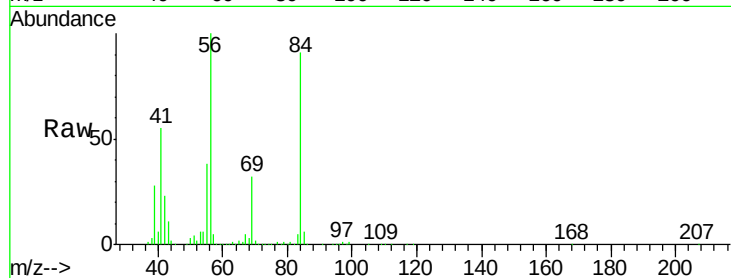
ClientSampled :

VSTDICV010

Tot Ion:	56	Resp:	246187
Ion Ratio	Lower	Upper	
56	100		
69	31.4	26.8	40.2
84	88.0	71.5	107.3

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



#20

Methylcyclohexane

Concen: 10.334 ug/l

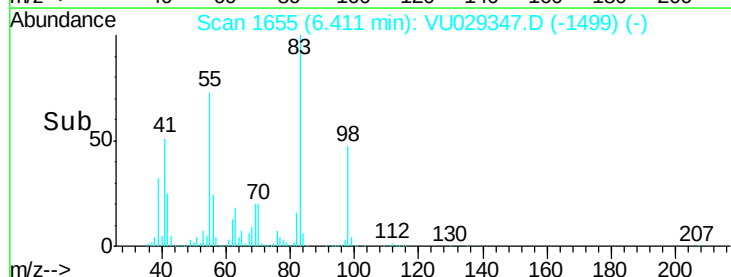
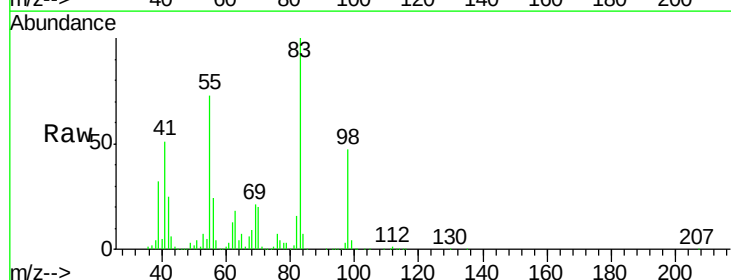
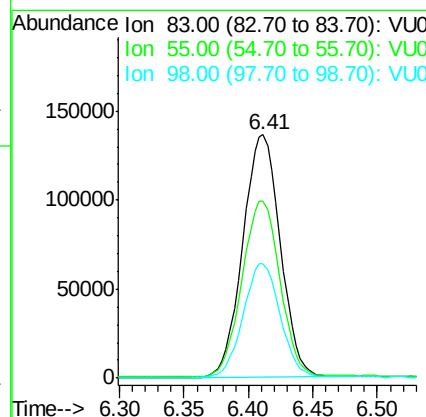
RT: 6.41 min Scan# 1655

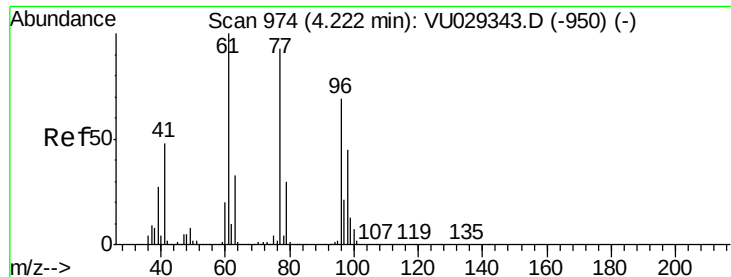
Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Tgt Ion:	83	Resp:	274634
Ion Ratio	Lower	Upper	
83	100		
55	73.4	72.4	108.6
98	46.6	36.6	54.8





#21

2,2-Dichloropropane

Concen: 10.070 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampled :

VSTDICV010

Tot Ion: 77 Resp: 254376

Ion Ratio Lower Upper

77 100

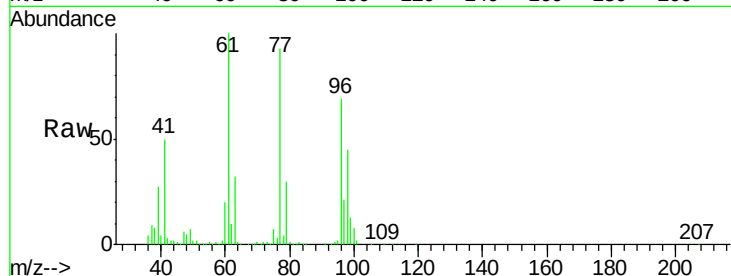
97 22.9 15.6 23.4

Manual Integrations

APPROVED

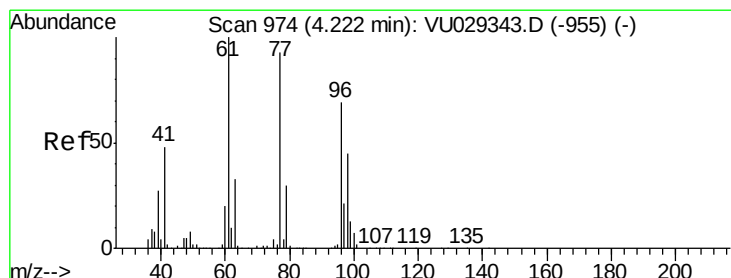
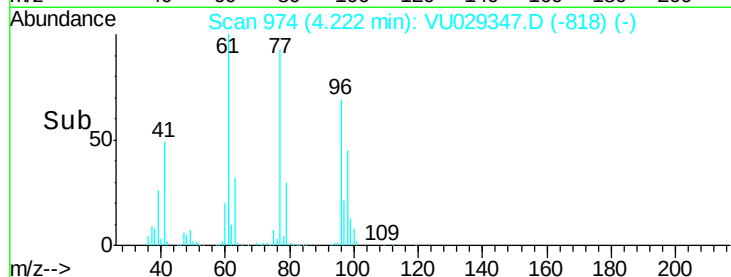
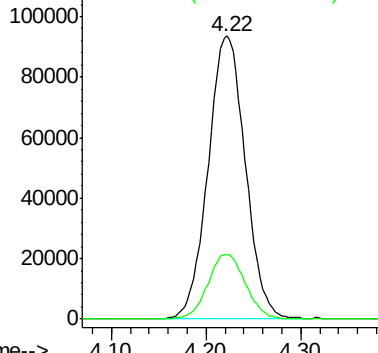
sam

2/8/2019 2:26:35 PM



Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#22

cis-1,2-Dichloroethene

Concen: 10.431 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

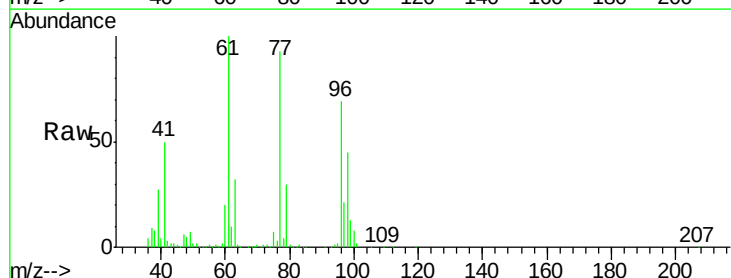
Tgt Ion: 96 Resp: 169219

Ion Ratio Lower Upper

96 100

61 147.7 0.0 460.0

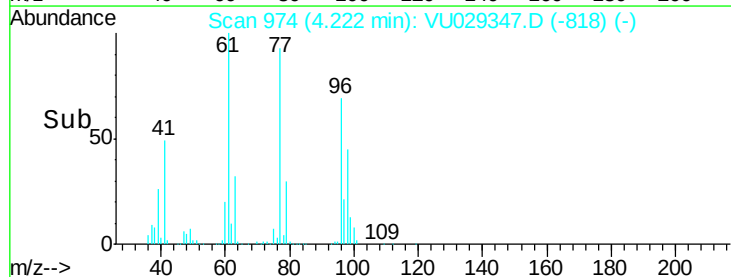
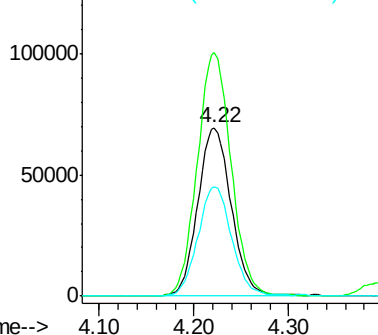
98 65.1 32.6 97.7

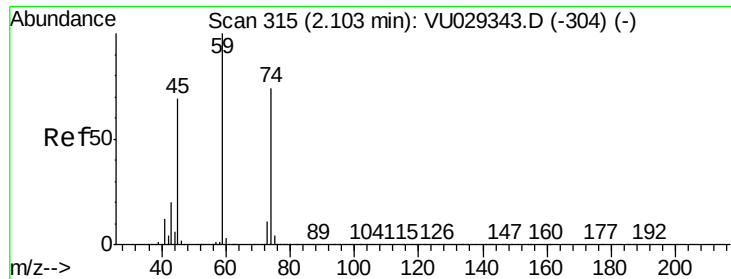


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





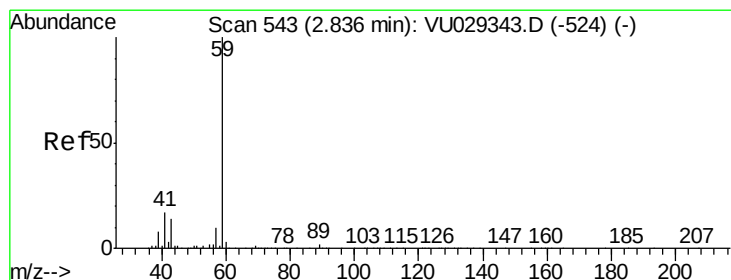
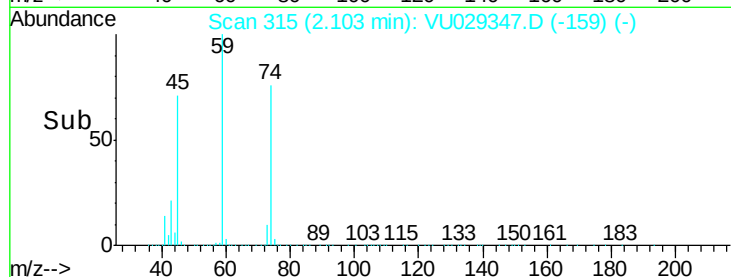
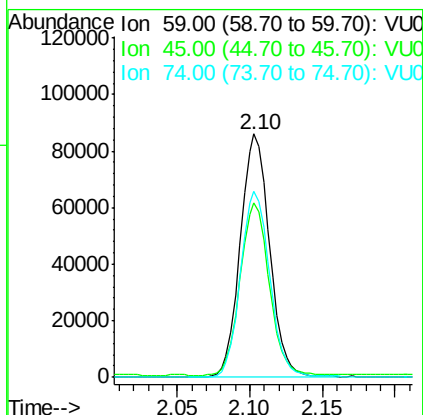
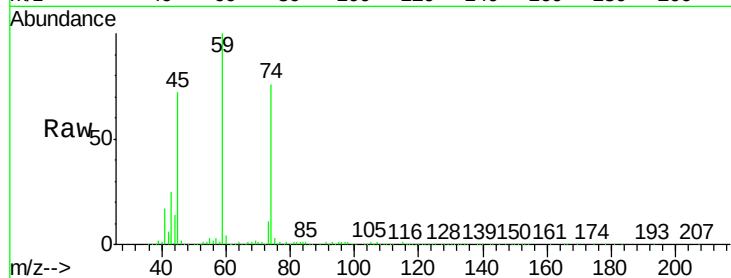
#23
Diethyl Ether
Concen: 9.750 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ratio	Lower	Upper
59	100		
45	70.5	64.2	96.4
74	76.3	55.3	82.9

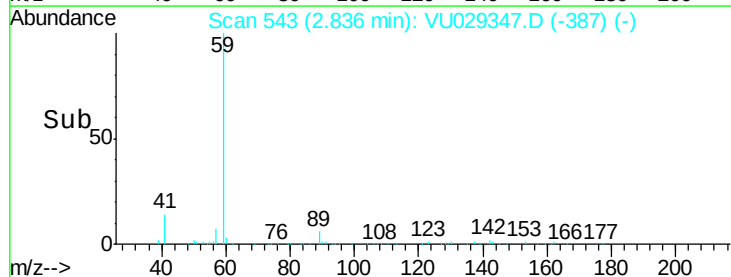
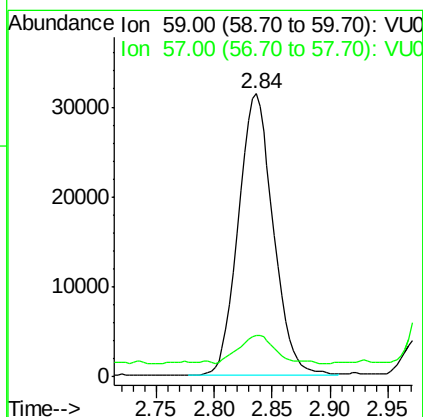
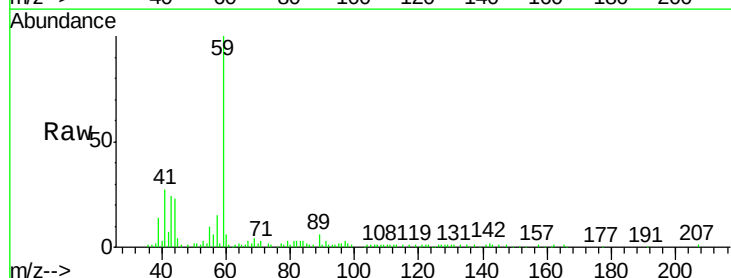
Manual Integrations
APPROVED

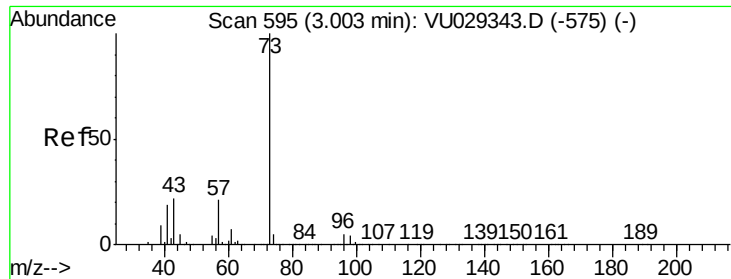
sam
2/8/2019 2:26:35 PM



#24
tert-Butyl Alcohol
Concen: 50.959 ug/l
RT: 2.84 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.8	13.2





#25

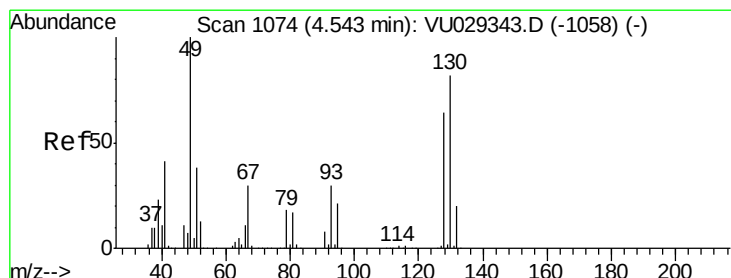
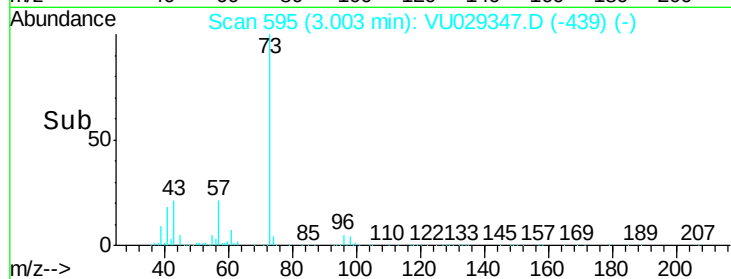
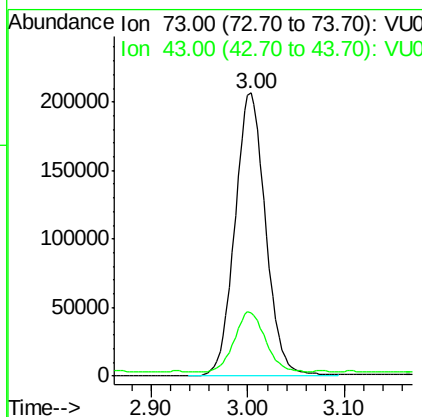
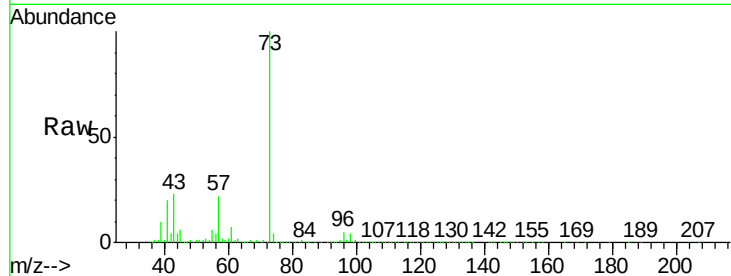
Methyl tert-Butyl Ether
 Concen: 10.405 ug/l
 RT: 3.00 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.0	22.1	33.1#

Manual Integrations
 APPROVED

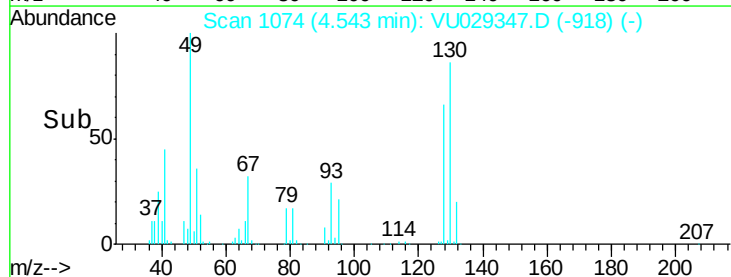
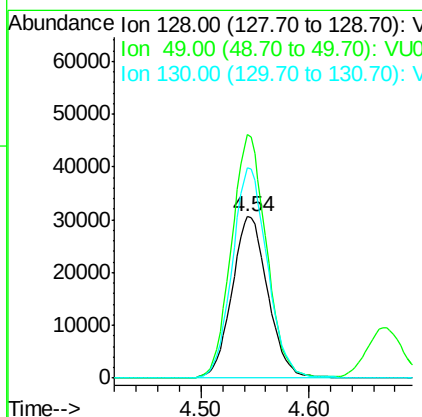
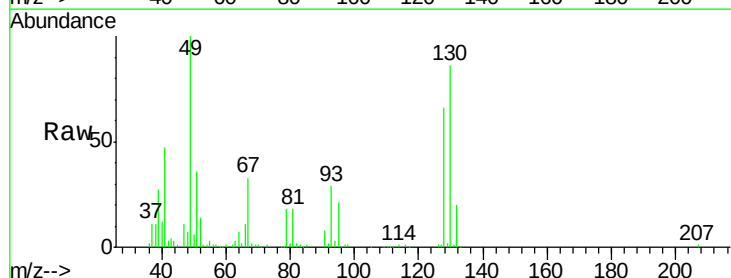
sam
 2/8/2019 2:26:35 PM

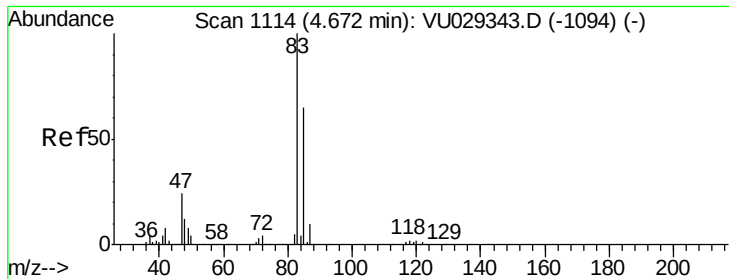


#26

Bromochloromethane
 Concen: 9.865 ug/l
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
128	100		
49	146.9	0.0	401.6
130	127.7	108.0	162.0





#27

Chloroform

Concen: 10.392 ug/l

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion: 83 Resp: 275809

Ion Ratio Lower Upper

83 100

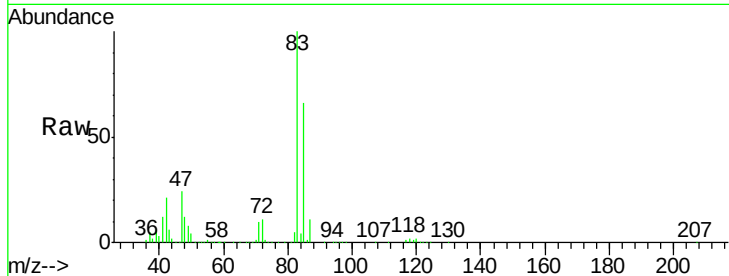
85 65.8 0.0 126.6

Manual Integrations

APPROVED

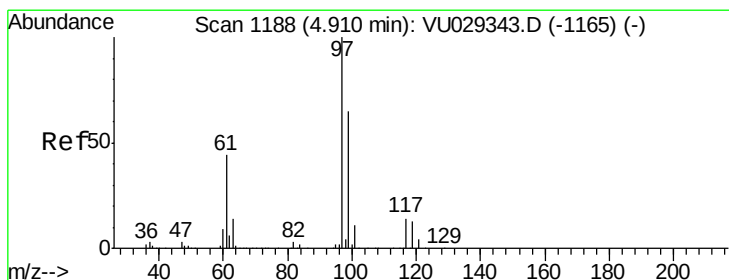
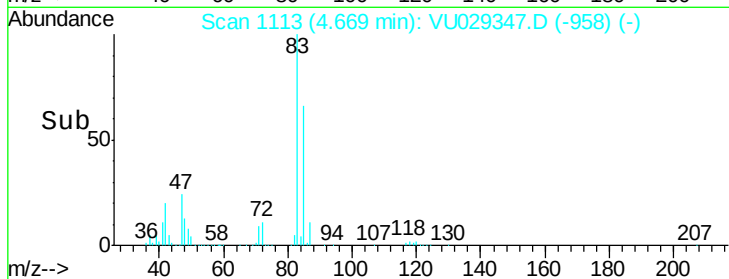
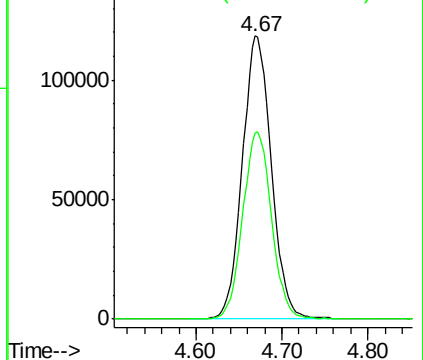
sam

2/8/2019 2:26:35 PM



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#28

1,1,1-Trichloroethane

Concen: 10.503 ug/l

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

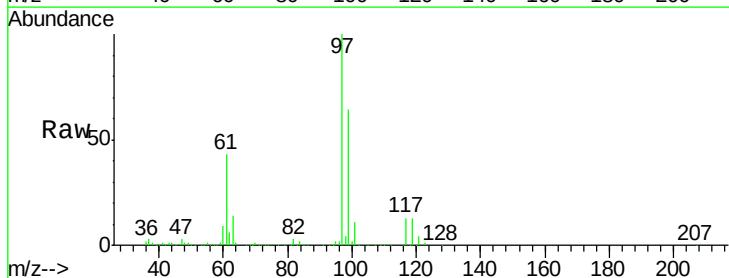
Tgt Ion: 97 Resp: 258367

Ion Ratio Lower Upper

97 100

99 64.8 32.4 97.2

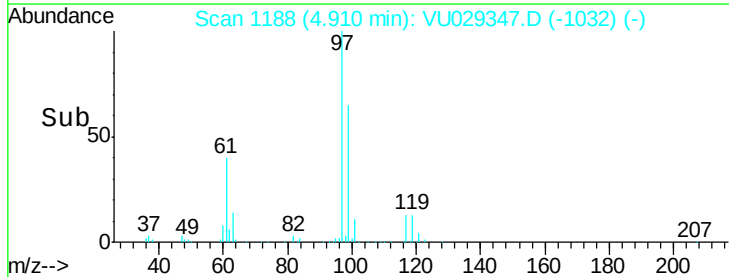
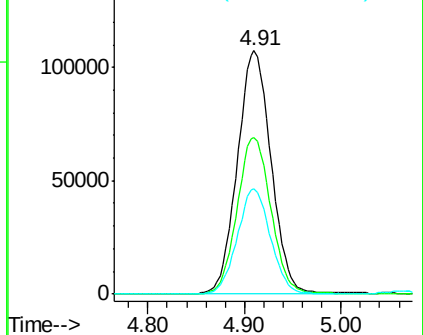
61 43.1 24.4 73.2

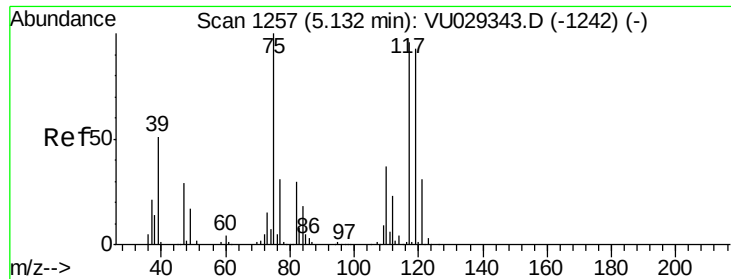


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#29

1,1-Dichloropropene

Concen: 10.105 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

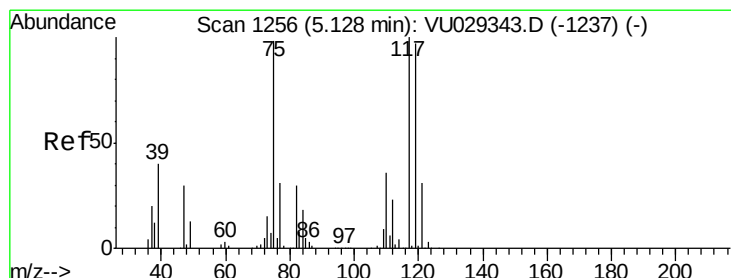
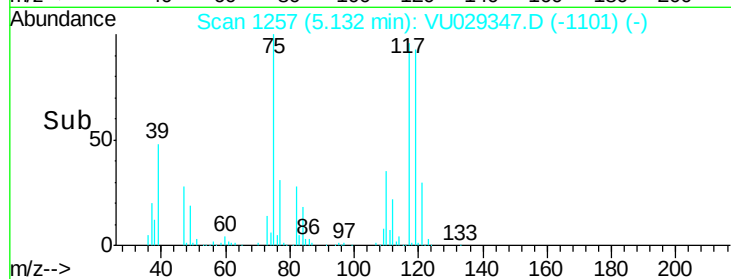
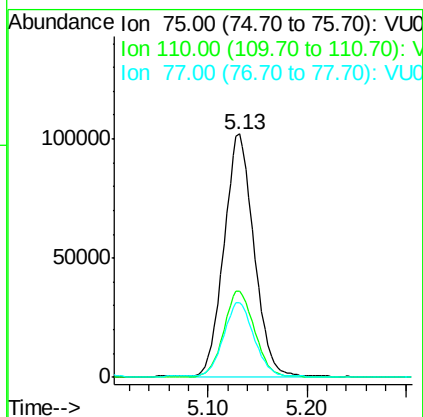
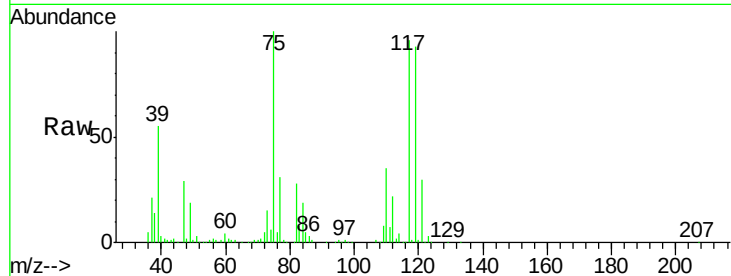
ClientSampled :

VSTDICV010

Tot Ion:	75	Resp:	215785
Ion Ratio	Lower	Upper	
75	100		
110	36.6	15.4	46.2
77	31.0	24.1	36.1

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



#30

Carbon Tetrachloride

Concen: 10.486 ug/l

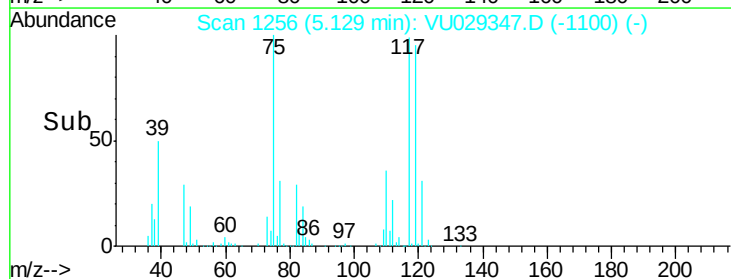
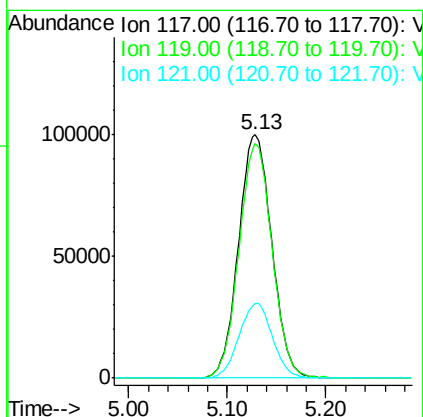
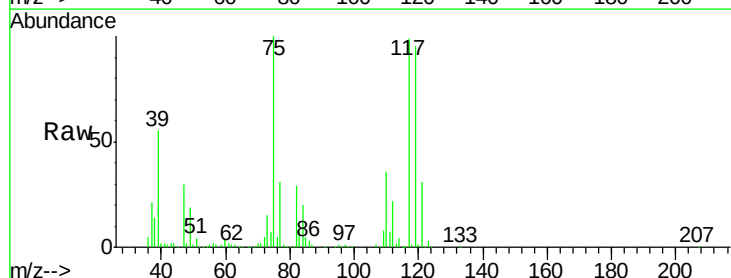
RT: 5.13 min Scan# 1256

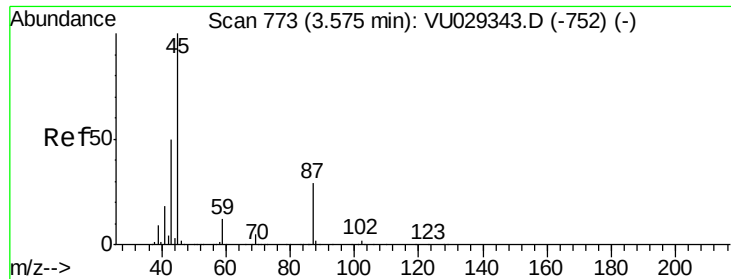
Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Tgt Ion:	117	Resp:	233514
Ion Ratio	Lower	Upper	
117	100		
119	96.1	76.8	115.2
121	30.8	24.4	36.6





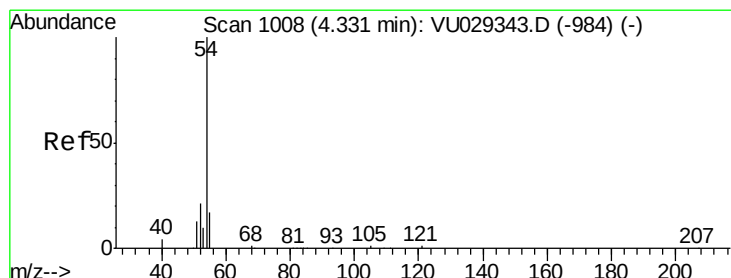
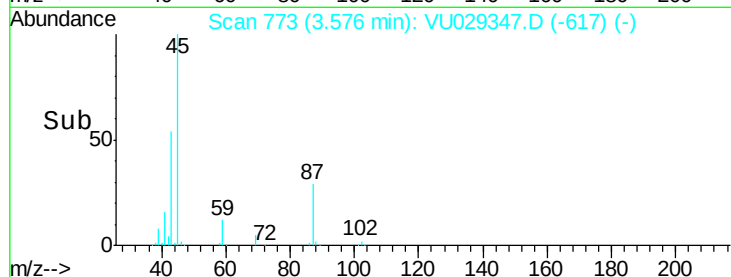
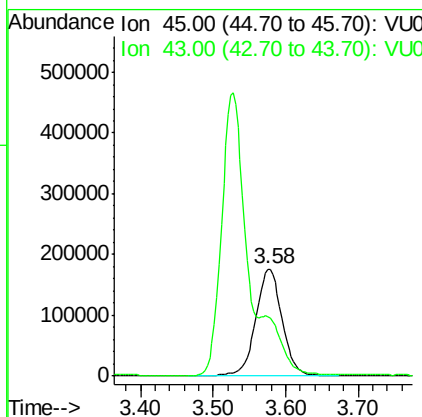
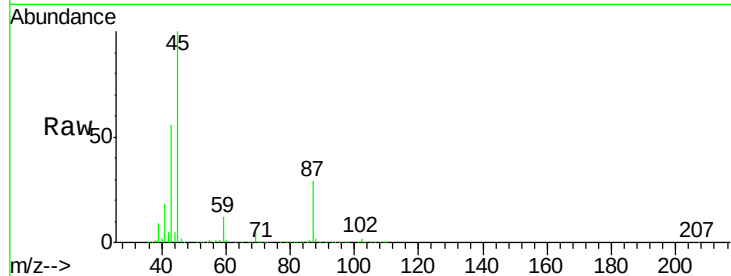
#31
Isopropyl Ether
Concen: 10.848 ug/l
RT: 3.58 min Scan# 773
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion: 45 Resp: 446700
Ion Ratio Lower Upper
45 100
43 229.0 28.4 85.3#

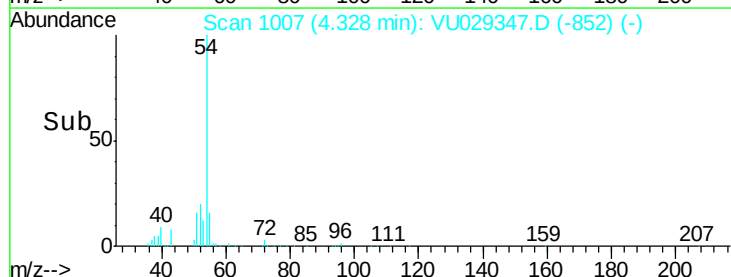
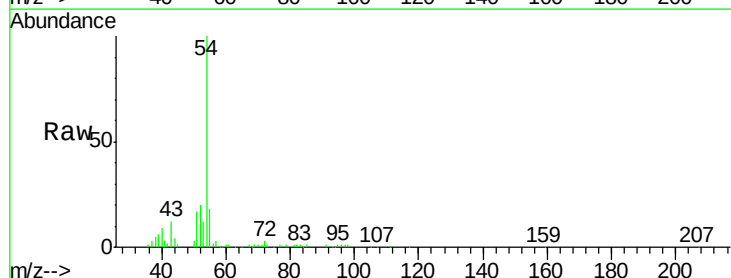
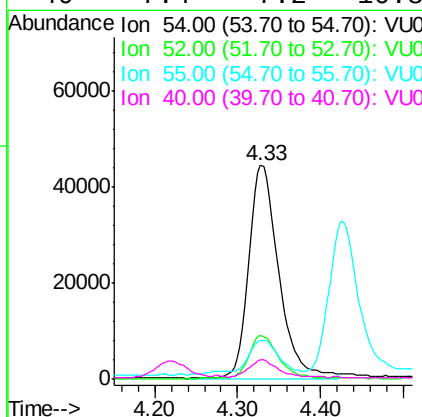
Manual Integrations
APPROVED

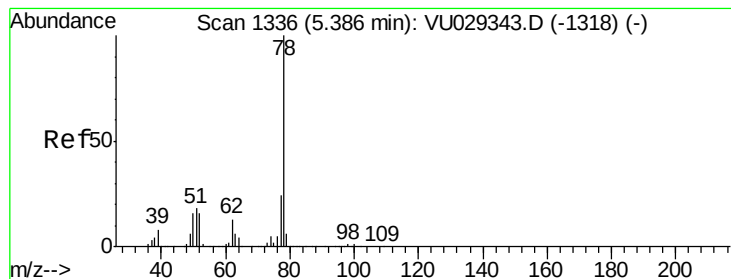
sam
2/8/2019 2:26:35 PM



#34
Propionitrile
Concen: 114.407 ug/l
RT: 4.33 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion: 54 Resp: 111807
Ion Ratio Lower Upper
54 100
52 19.4 18.9 28.3
55 14.3 15.1 22.7#
40 7.4 7.2 10.8





#35

Benzene

Concen: 10.363 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion: 78 Resp: 612004

Ion Ratio Lower Upper

78 100

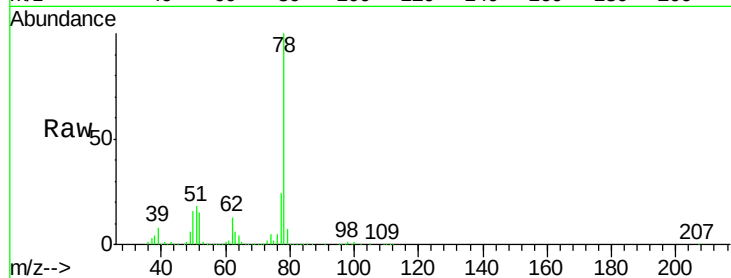
77 24.2 19.8 29.8

Manual Integrations

APPROVED

sam

2/8/2019 2:26:35 PM



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

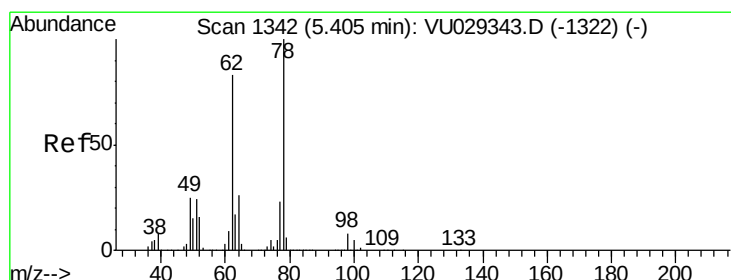
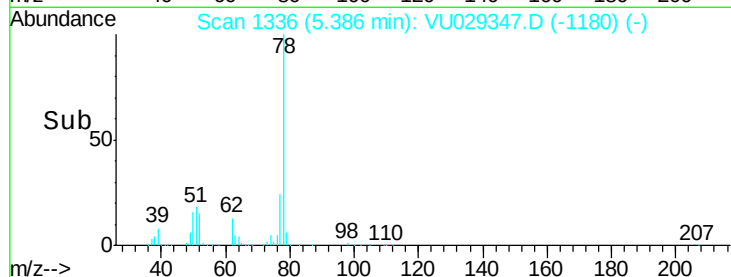
300000

200000

100000

0

Time-->



#36

1,2-Dichloroethane

Concen: 10.250 ug/l

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU029347.D

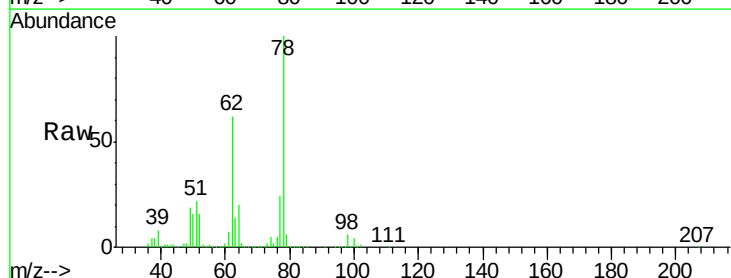
Acq: 05 Feb 2019 14:53

Tgt Ion: 62 Resp: 183082

Ion Ratio Lower Upper

62 100

98 8.6 4.9 7.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.40

100000

80000

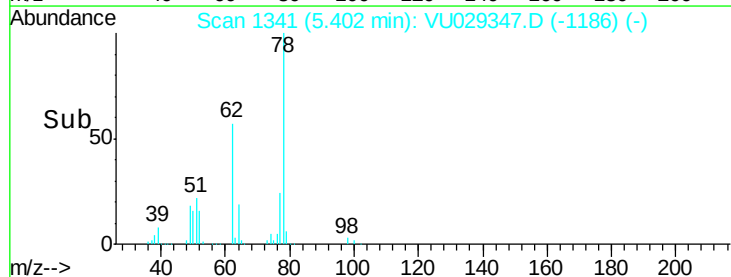
60000

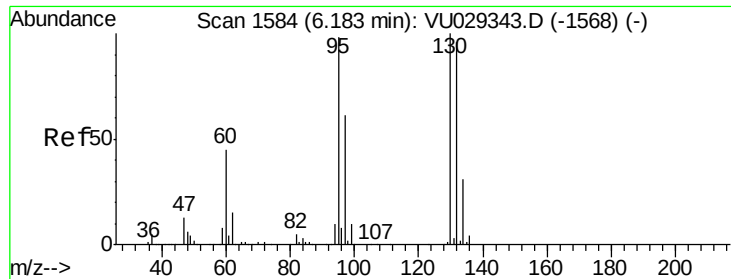
40000

20000

0

Time-->





#37

Trichloroethene

Concen: 10.504 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion:130 Resp: 178009

Ion Ratio Lower Upper

130 100

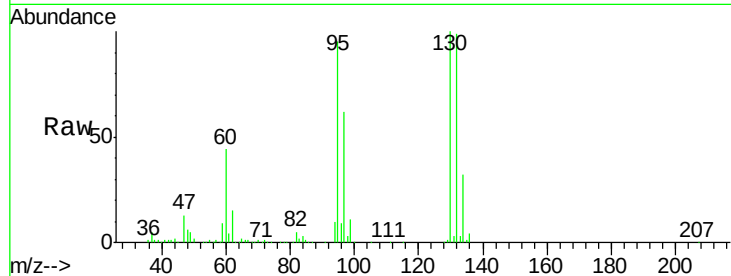
95 94.6 85.4 128.0

Manual Integrations

APPROVED

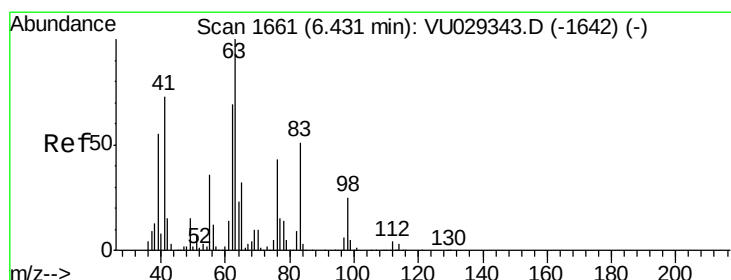
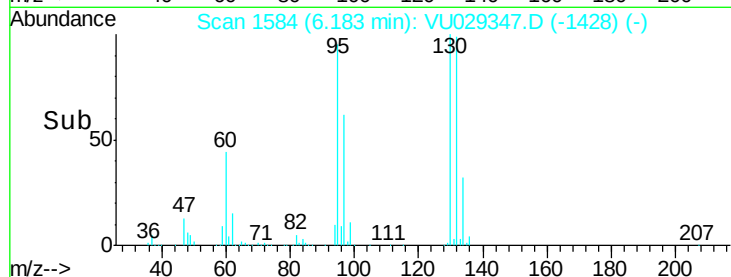
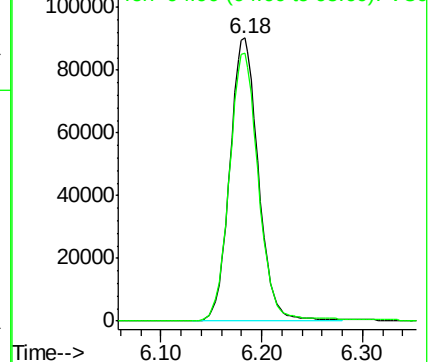
sam

2/8/2019 2:26:35 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: 10.429 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029347.D

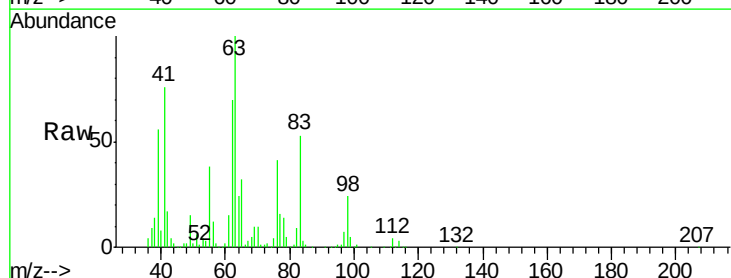
Acq: 05 Feb 2019 14:53

Tgt Ion: 63 Resp: 160219

Ion Ratio Lower Upper

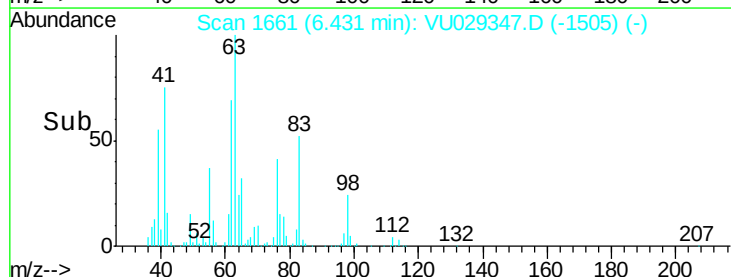
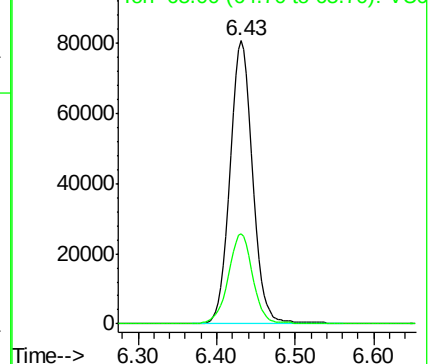
63 100

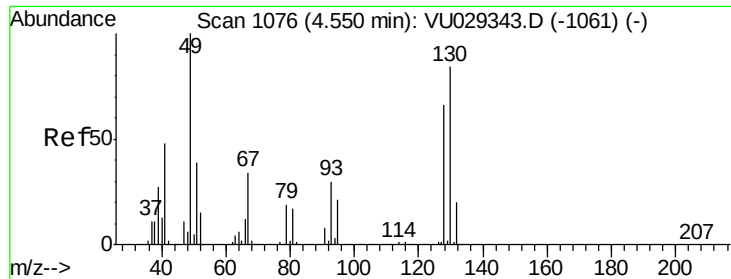
65 31.8 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0





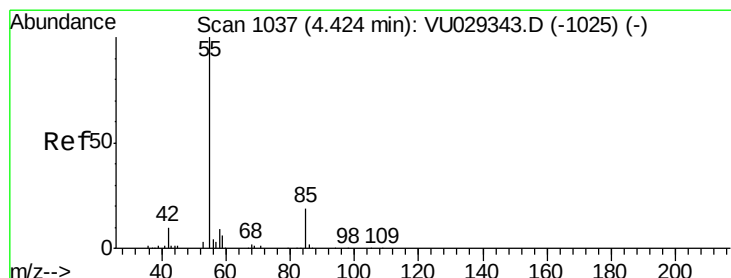
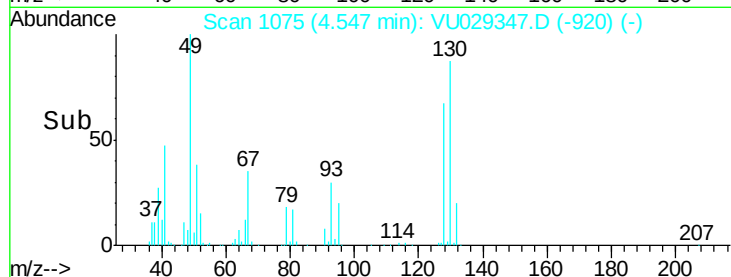
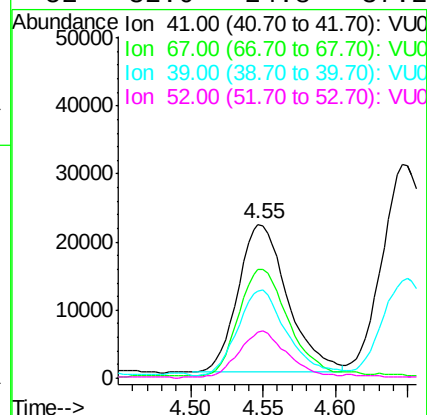
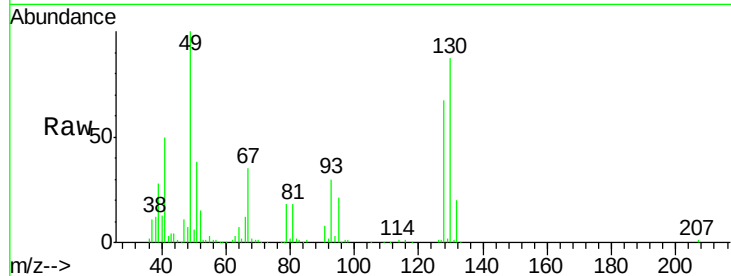
#39
Methacrylonitrile
Concen: 10.251 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	41	Resp	51302
Ion	Ratio	Lower	Upper
41	100		
67	74.3	50.1	75.1
39	57.8	47.9	71.9
52	32.0	24.8	37.2

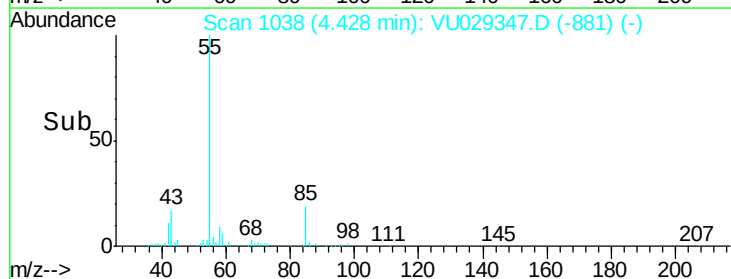
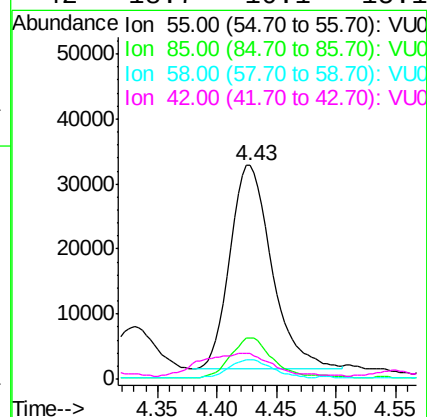
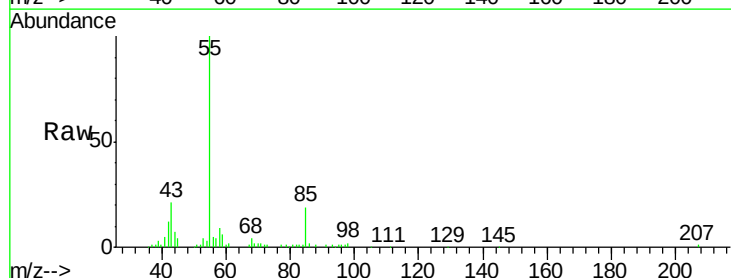
Manual Integrations
APPROVED

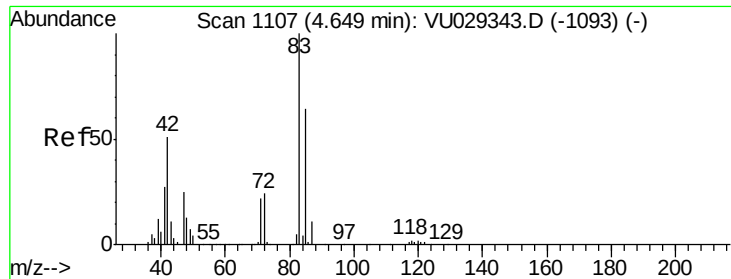
sam
2/8/2019 2:26:35 PM



#40
Methyl acrylate
Concen: 10.209 ug/l
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	55	Resp	77125
Ion	Ratio	Lower	Upper
55	100		
85	19.5	11.3	16.9#
58	9.1	6.2	9.4
42	18.7	10.1	15.1#





#41

Tetrahydrofuran

Concen: 50.557 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

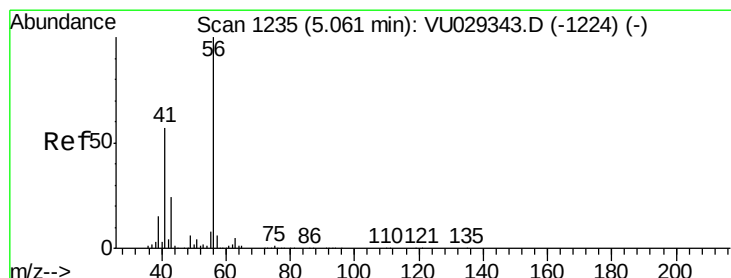
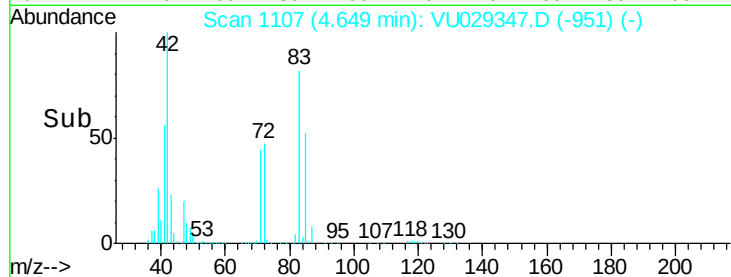
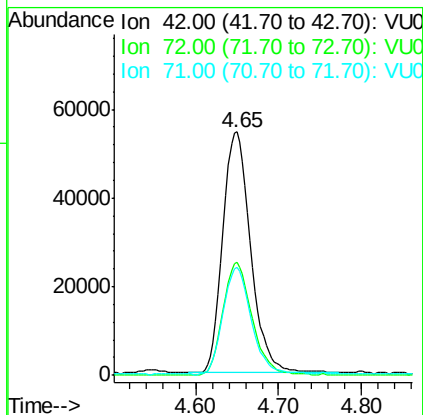
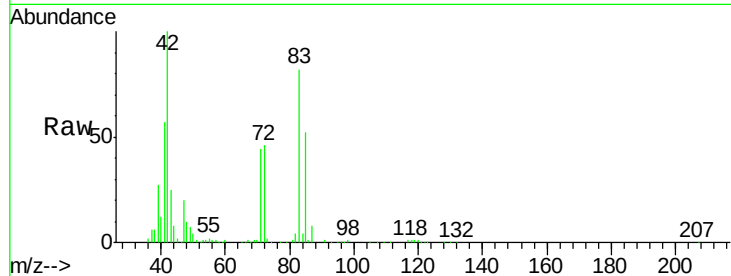
ClientSampleId :

VSTDICV010

Tot Ion:	42	Resp:	127453
Ion Ratio	Lower	Upper	
42	100		
72	48.8	33.1	49.7
71	44.7	30.2	45.2

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



#42

1-Chlorobutane

Concen: 10.182 ug/l

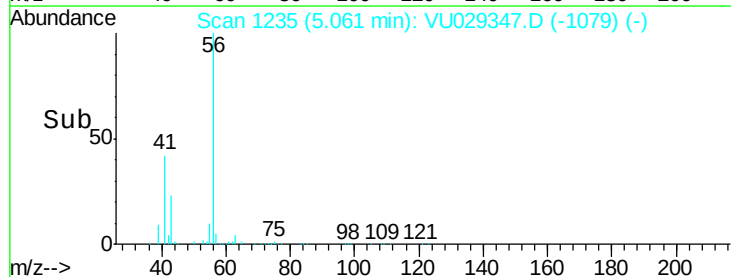
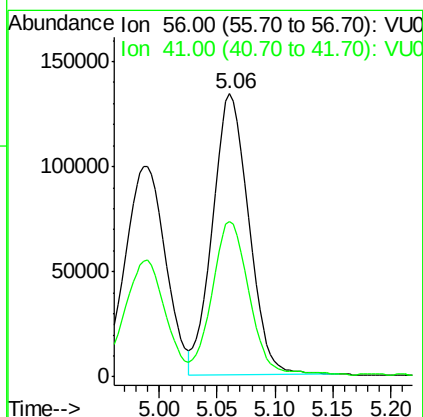
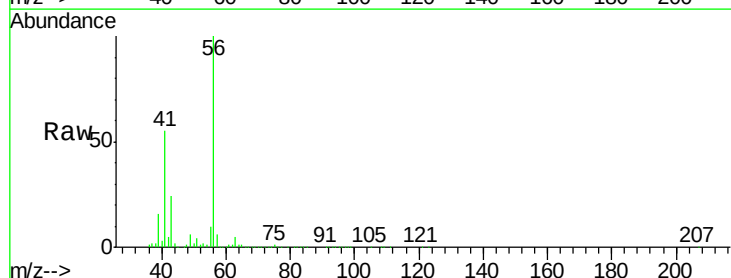
RT: 5.06 min Scan# 1235

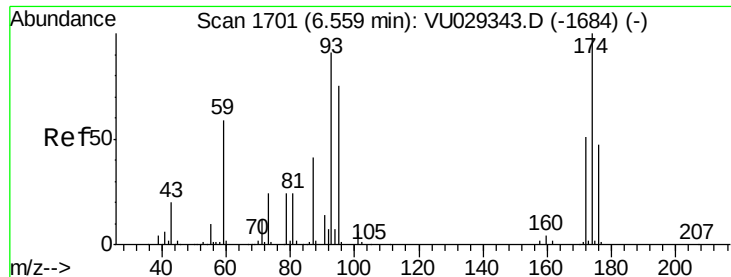
Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Tgt Ion:	56	Resp:	291330
Ion Ratio	Lower	Upper	
56	100		
41	55.4	31.3	93.8





#43

Dibromomethane

Concen: 10.197 ug/l

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

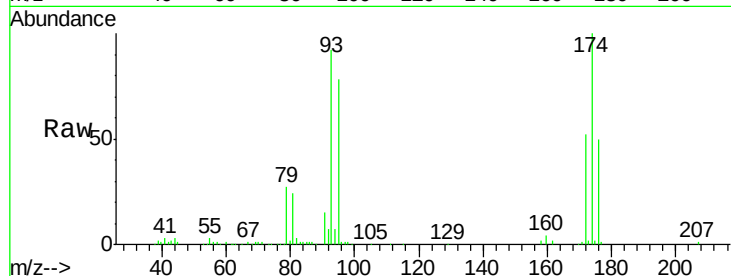
ClientSampleId :

VSTDICV010

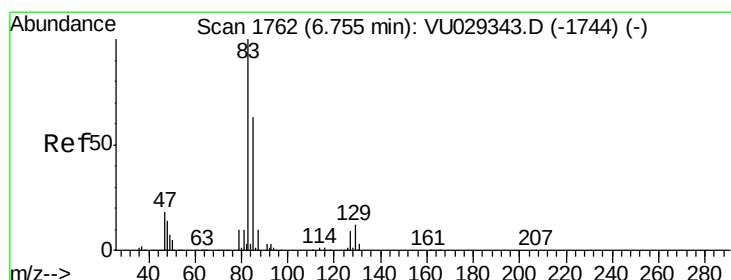
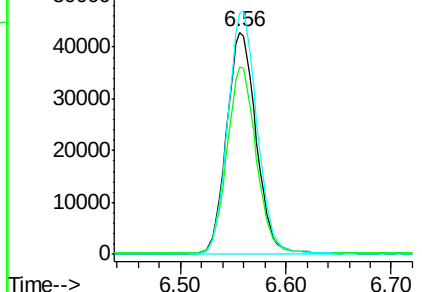
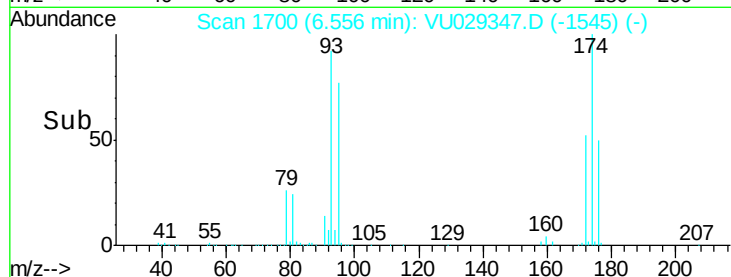
Tot Ion:	93	Resp:	83482
Ion	Ratio	Lower	Upper
93	100		
95	81.5	68.2	102.2
174	108.2	77.6	116.4

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



Abundance Ion 93.00 (92.70 to 93.70): VU029347.D (-1545) (-)



#44

Bromodichloromethane

Concen: 10.427 ug/l

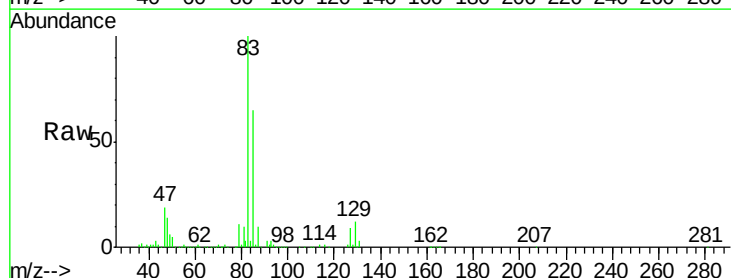
RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

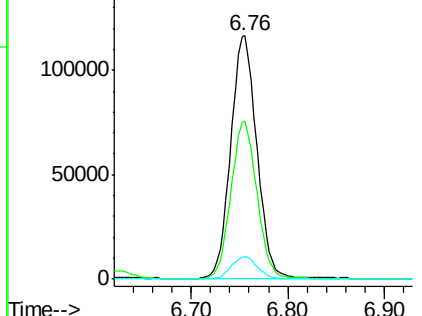
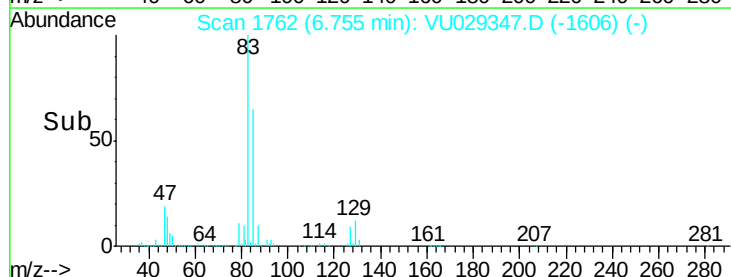
Lab File: VU029347.D

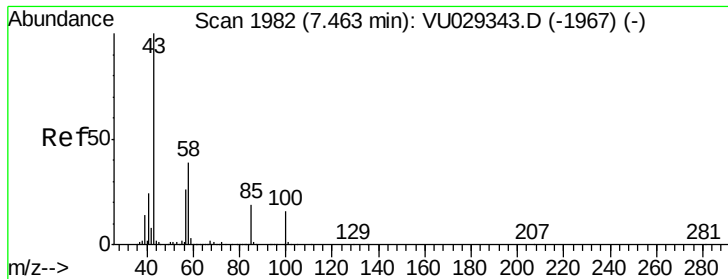
Acq: 05 Feb 2019 14:53

Tgt Ion:	83	Resp:	217511
Ion	Ratio	Lower	Upper
83	100		
85	64.9	49.2	73.8
127	9.4	7.0	10.6



Abundance Ion 83.00 (82.70 to 83.70): VU029347.D (-1606) (-)





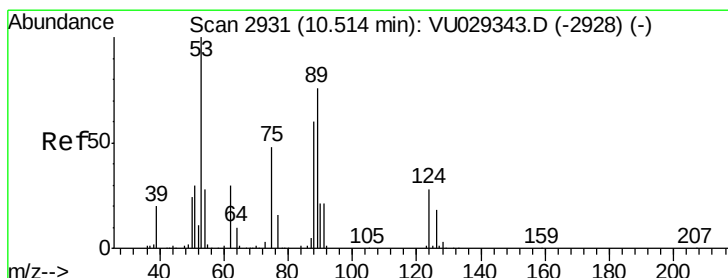
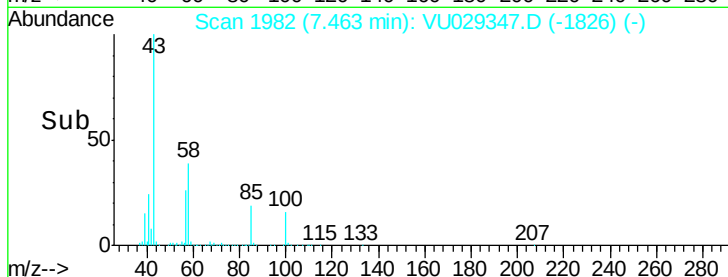
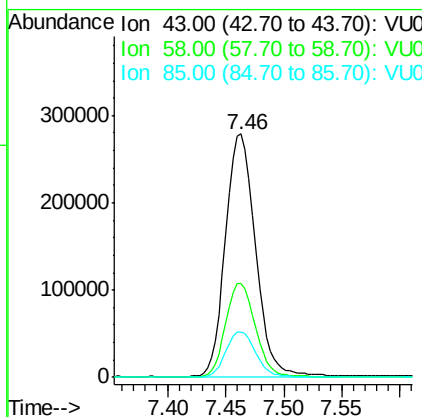
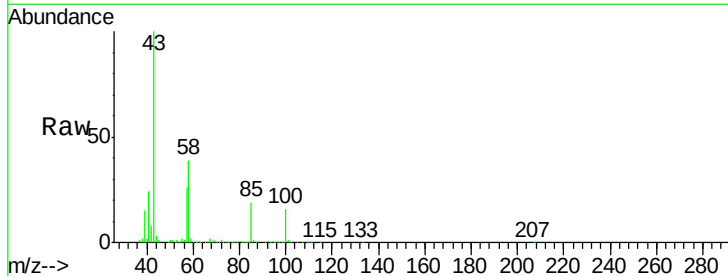
#45
 4-Methyl-2-Pentanone
 Concen: 51.782 ug/l
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.8	17.6	52.8
85	18.9	12.3	18.5#

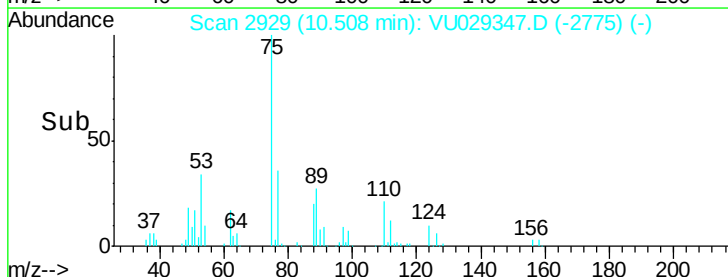
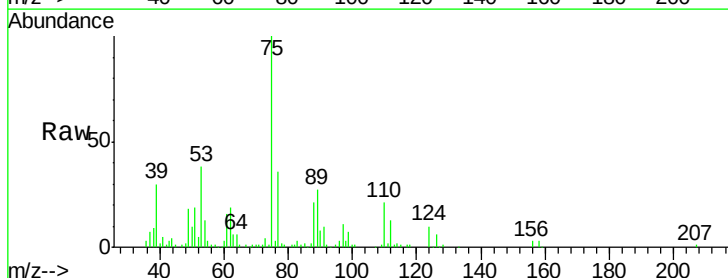
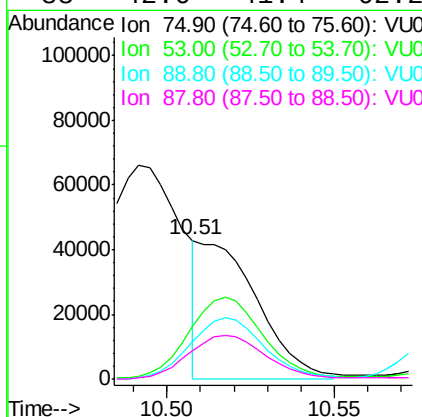
Manual Integrations
 APPROVED

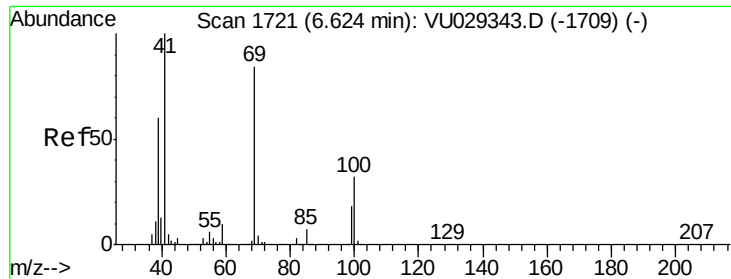
sam
 2/8/2019 2:26:35 PM



#46
 t-1,4-Dichloro-2-butene
 Concen: 10.936 ug/l m
 RT: 10.51 min Scan# 2929
 Delta R.T. -0.01 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
75	100		
53	76.3	78.2	117.4#
89	57.4	44.2	66.4
88	42.6	41.4	62.2





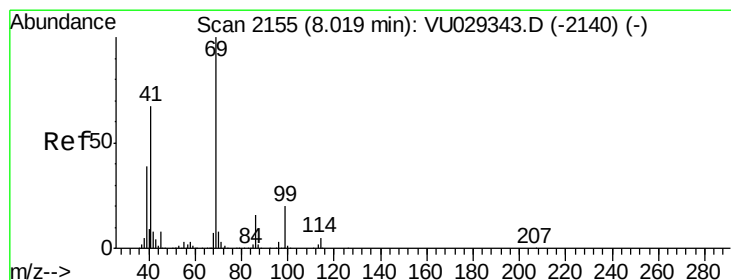
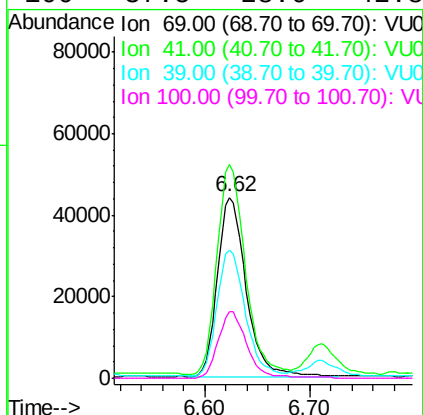
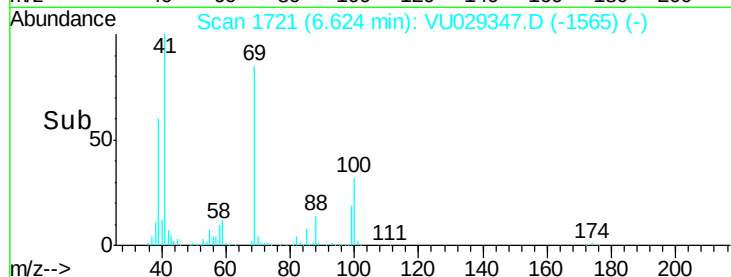
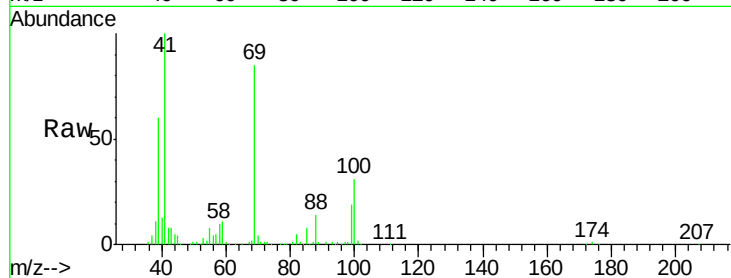
#47
Methvl methacrylate
Concen: 11.536 ug/l
RT: 6.62 min Scan# 1721
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	113.9	0.0	296.2		
39	68.5	71.2	106.8		
100	37.5	28.6	42.8		

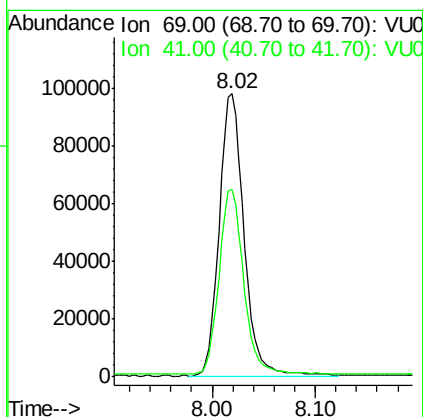
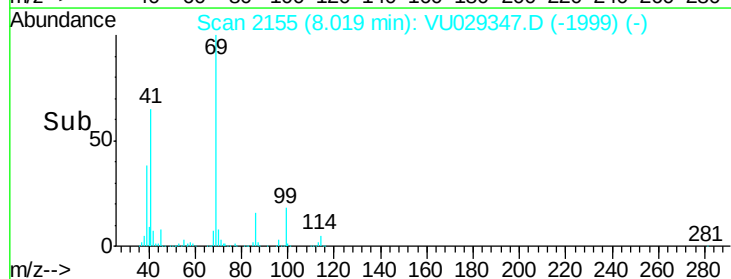
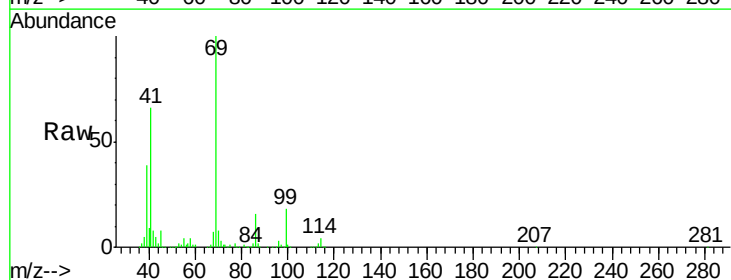
Manual Integrations
APPROVED

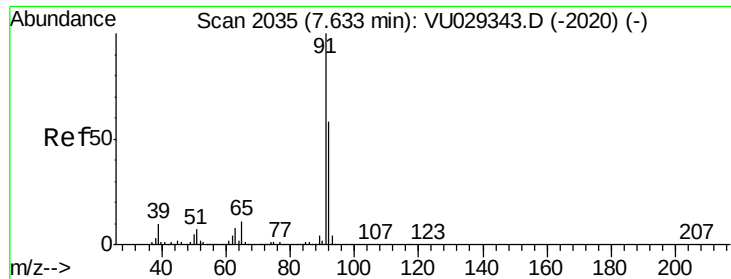
sam
2/8/2019 2:26:35 PM



#48
Ethyl methacrylate
Concen: 10.565 ug/l
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	64.8	39.9	119.7		





#49

Toluene

Concen: 10.598 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion: 92 Resp: 400497

Ion Ratio Lower Upper

92 100

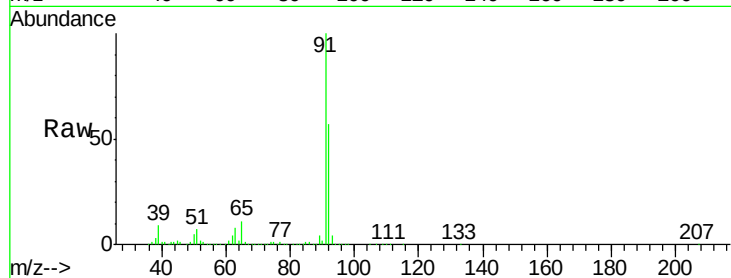
91 175.3 140.7 211.1

Manual Integrations

APPROVED

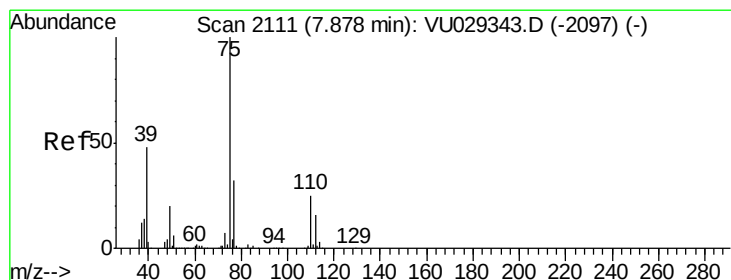
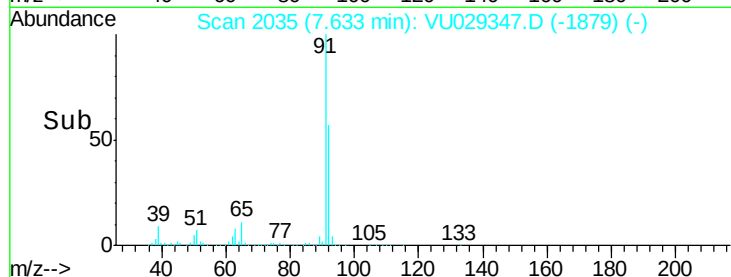
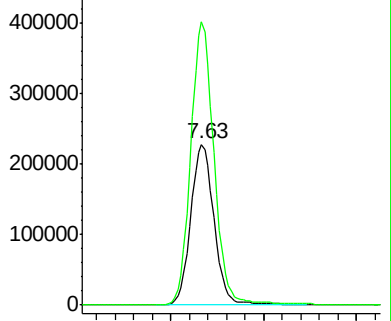
sam

2/8/2019 2:26:35 PM



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#50

t-1,3-Dichloropropene

Concen: 10.997 ug/l

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029347.D

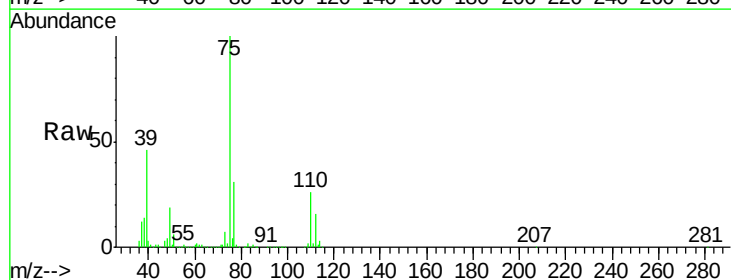
Acq: 05 Feb 2019 14:53

Tgt Ion: 75 Resp: 224869

Ion Ratio Lower Upper

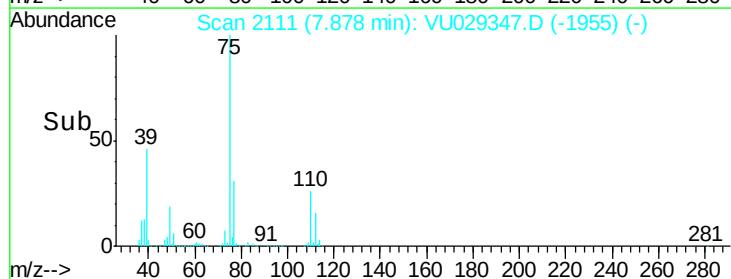
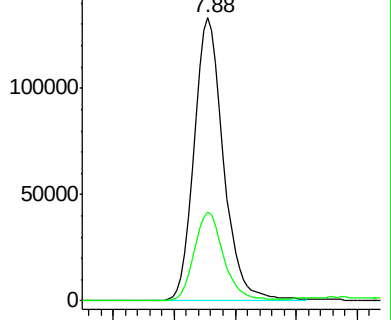
75 100

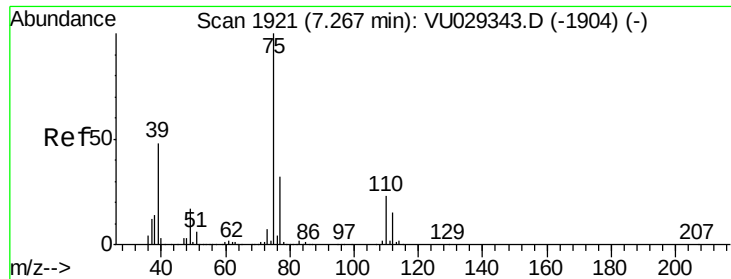
77 31.3 23.6 35.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





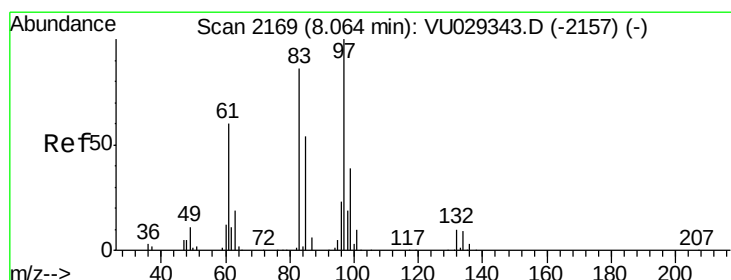
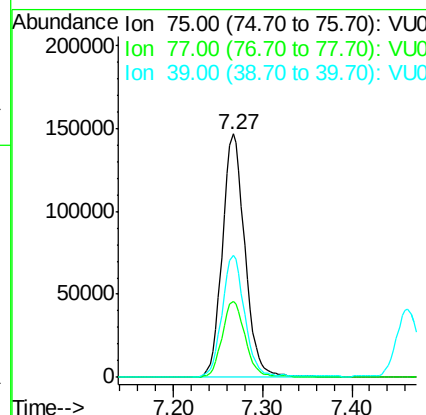
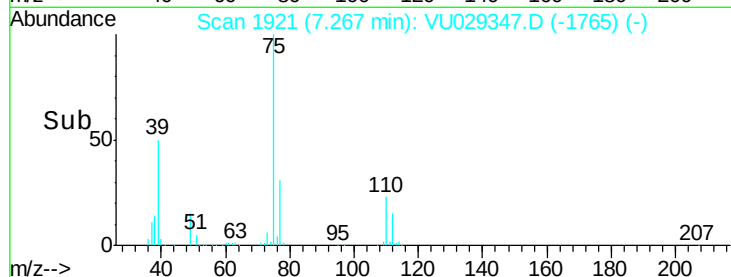
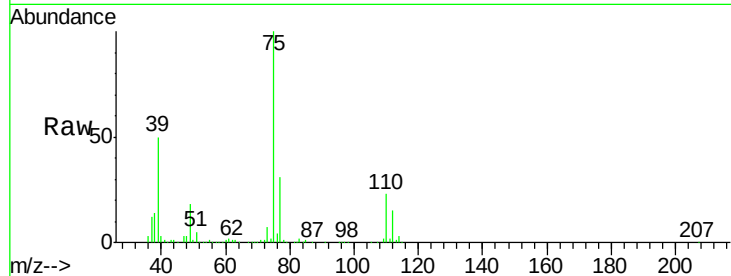
#51
 cis-1,3-Dichloropropene
 Concen: 10.610 ug/l
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.9	37.3
39	49.8	47.2	70.8

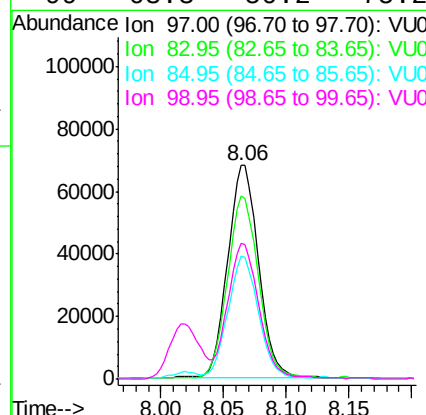
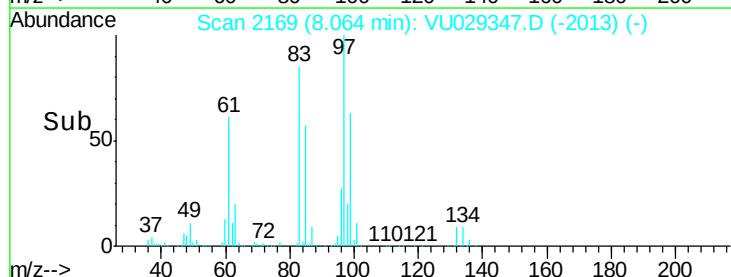
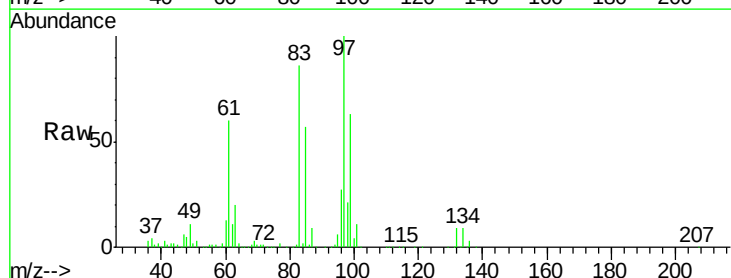
Manual Integrations
 APPROVED

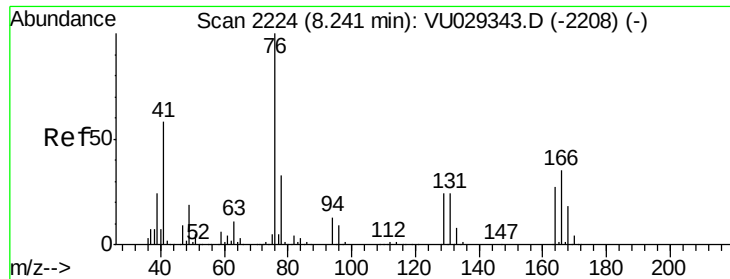
sam
 2/8/2019 2:26:35 PM



#52
 1,1,2-Trichloroethane
 Concen: 10.642 ug/l
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.7	69.9	104.9
85	57.2	45.8	68.6
99	63.3	50.2	75.2





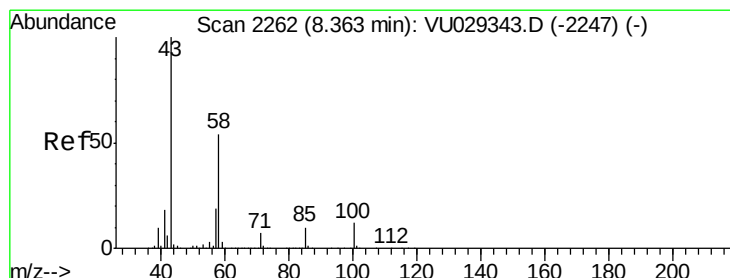
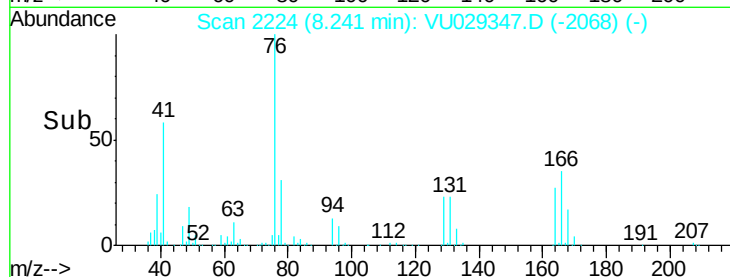
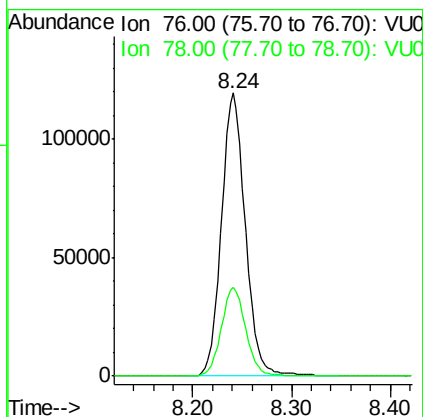
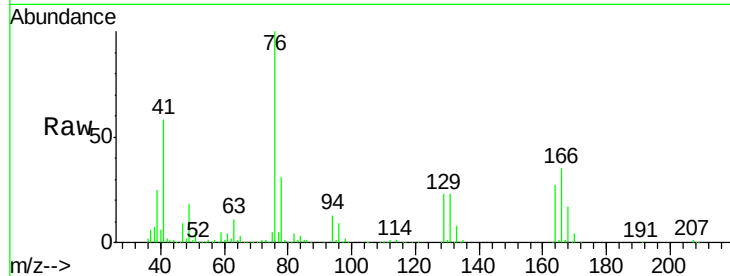
#53
 1,3-Dichloropropane
 Concen: 10.712 ug/l
 RT: 8.24 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampled :
 VSTDICV010

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.3	39.5

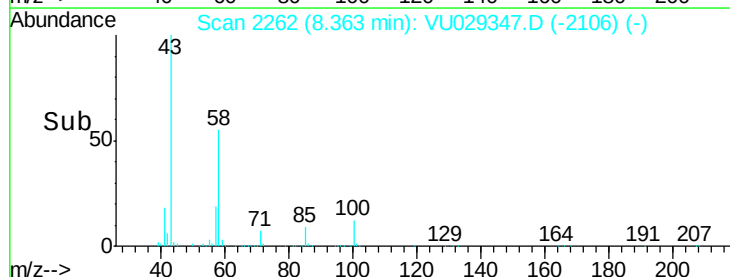
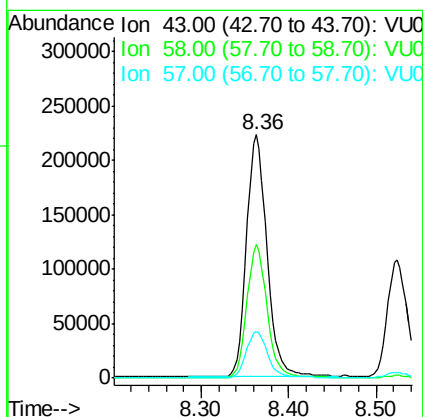
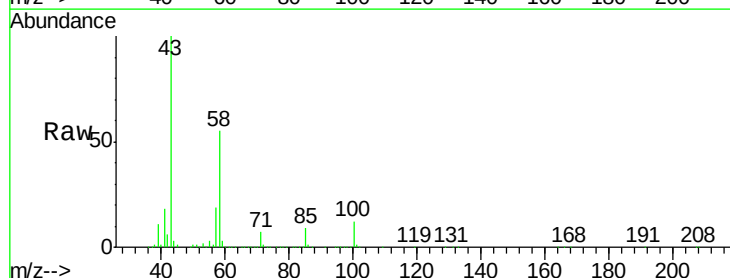
Manual Integrations
 APPROVED

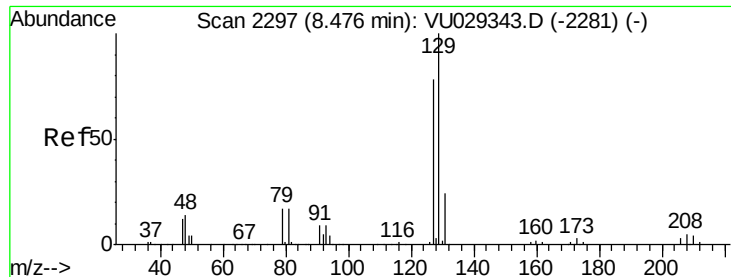
sam
 2/8/2019 2:26:35 PM



#54
 2-Hexanone
 Concen: 54.136 ug/l
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.2	26.0	66.0
57	19.4	0.0	37.7





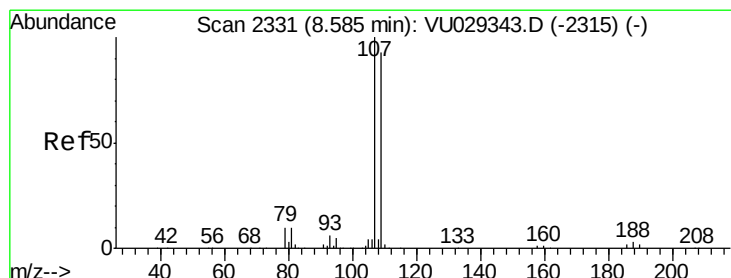
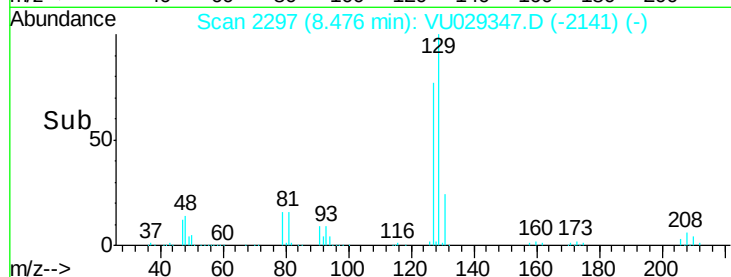
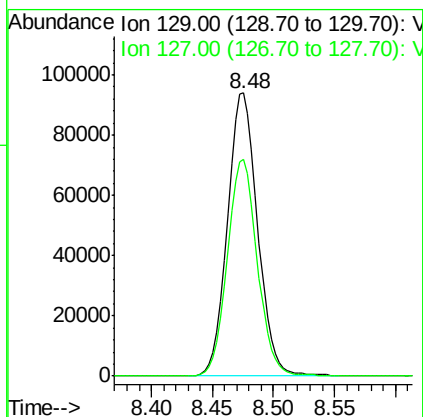
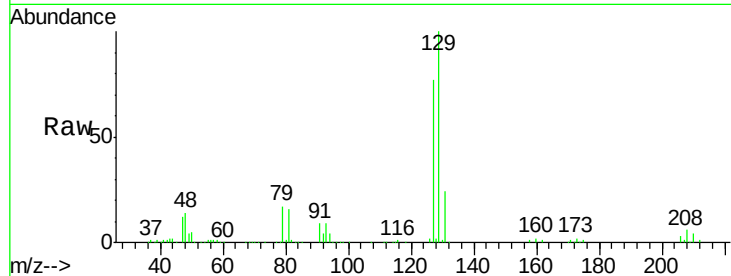
#55
Dibromochloromethane
Concen: 10.501 ug/l
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ratio	Lower	Upper
129	100		
127	76.4	60.5	90.7

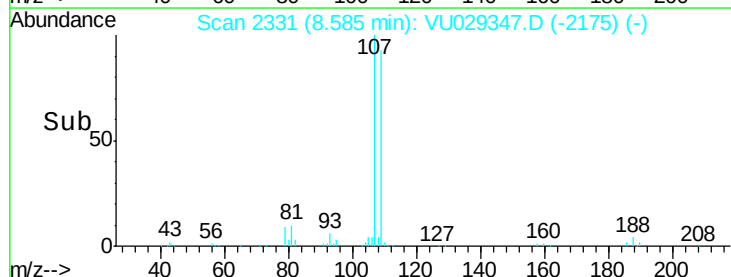
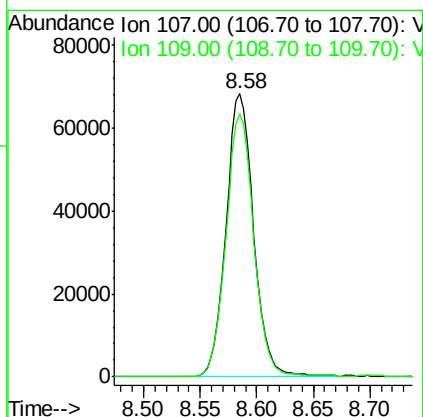
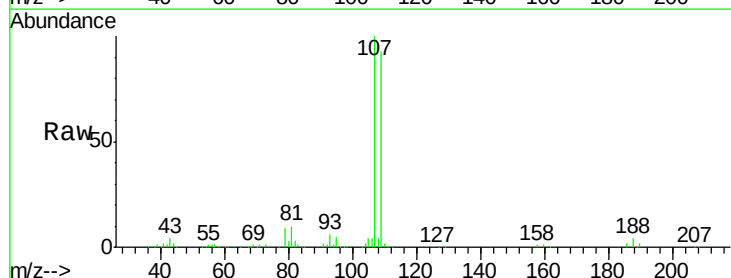
Manual Integrations
APPROVED

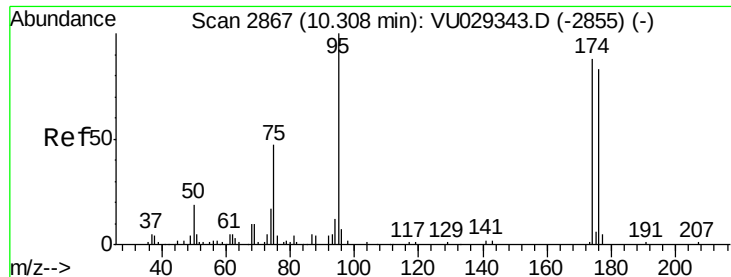
sam
2/8/2019 2:26:35 PM



#56
1,2-Dibromoethane
Concen: 10.444 ug/l
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.0	0.0	189.6





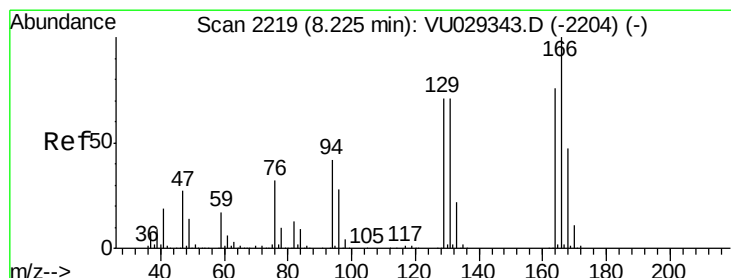
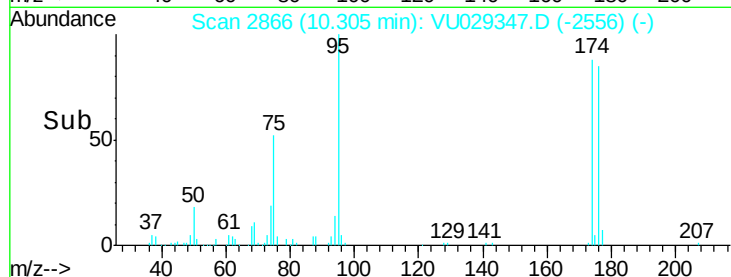
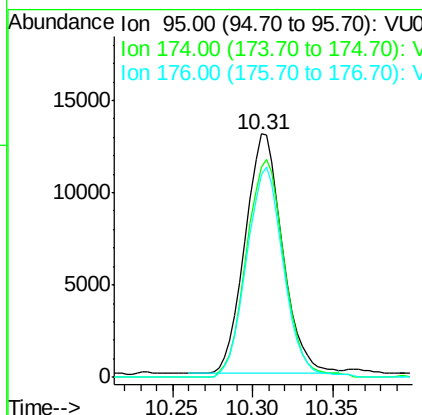
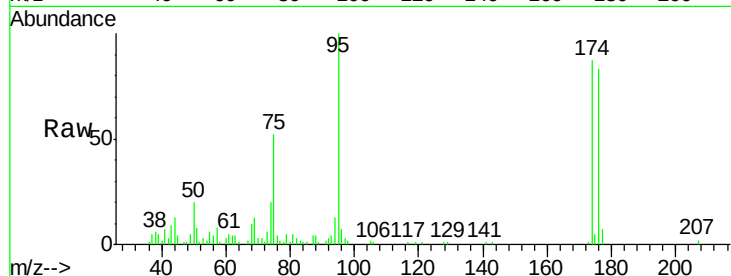
#57
4-Bromofluorobenzene
Concen: 10.444 ug/l
RT: 10.31 min Scan# 2866
Delta R.T. -0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ratio	Resp	Lower	Upper
95	100	20838		
174	91.5	64.2	96.2	
176	86.3	62.3	93.5	

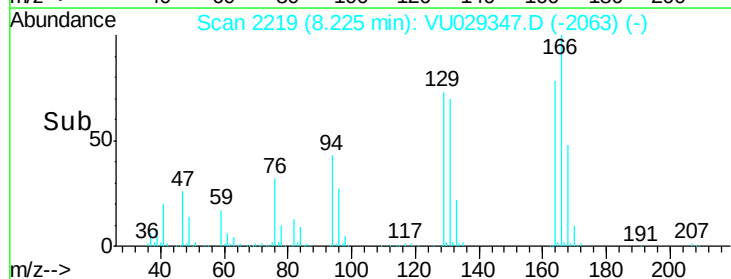
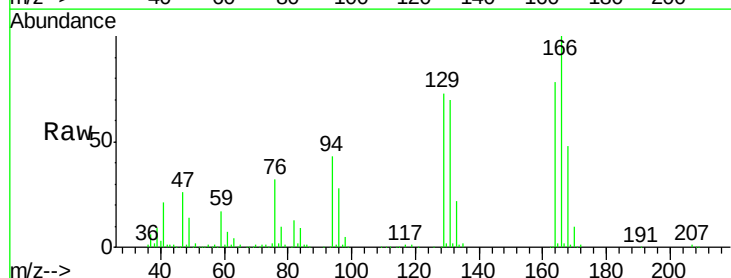
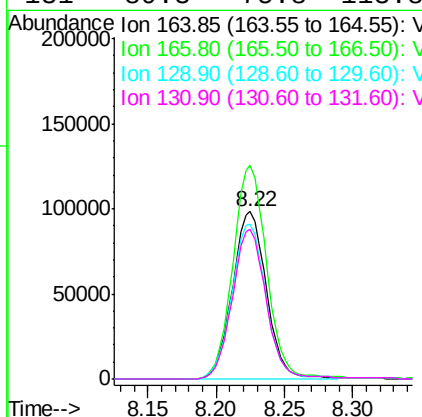
Manual Integrations
APPROVED

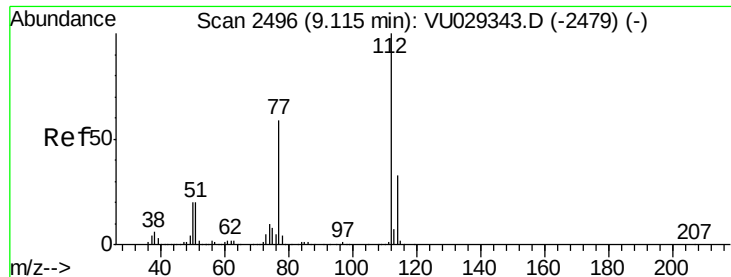
sam
2/8/2019 2:26:35 PM



#58
Tetrachloroethene
Concen: 10.798 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	170270		
166	127.4	106.6	159.8	
129	92.3	79.9	119.9	
131	89.3	75.8	113.8	





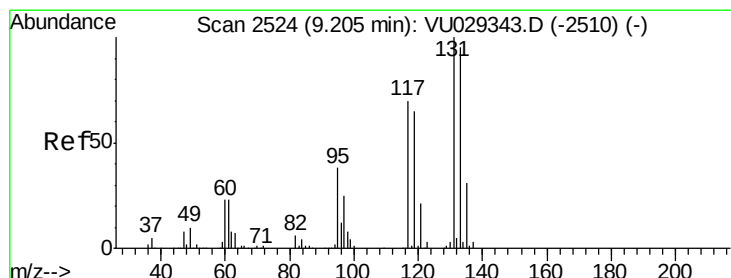
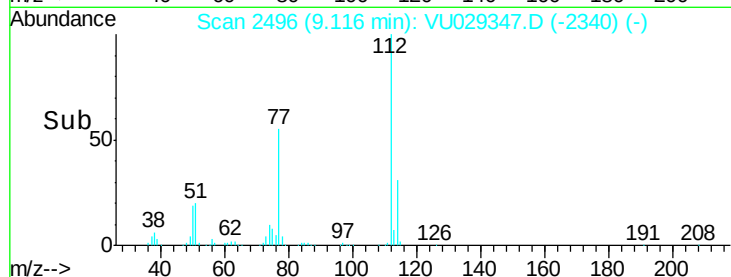
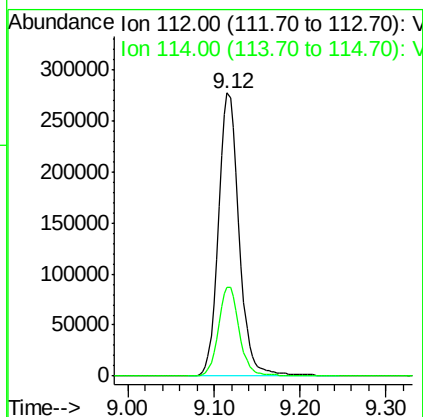
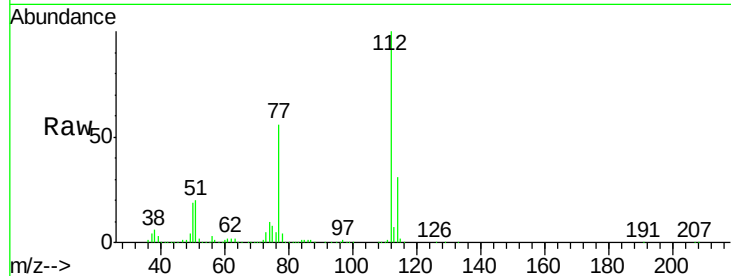
#59
Chlorobenzene
Concen: 10.906 ug/l
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.4

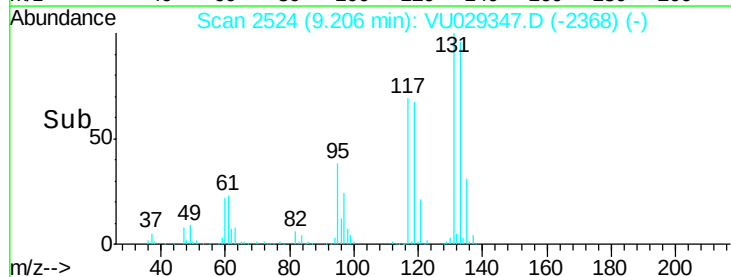
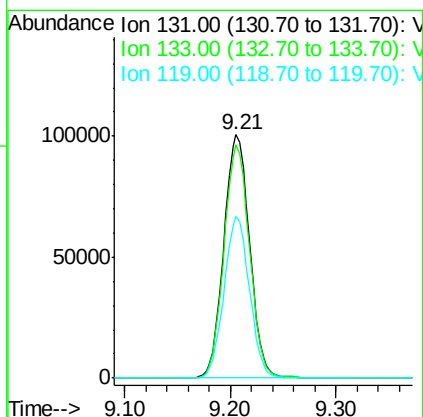
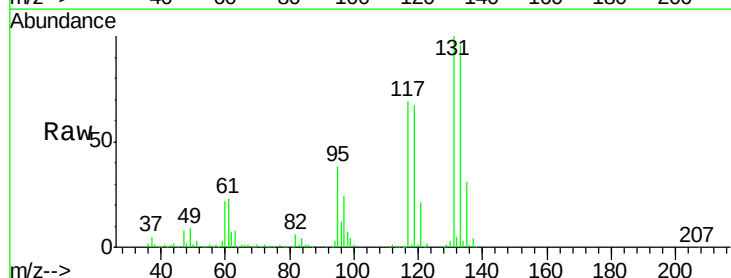
Manual Integrations
APPROVED

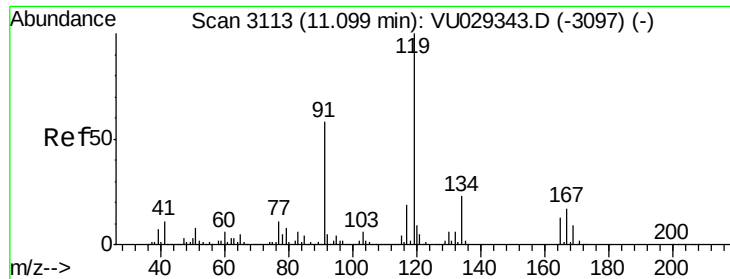
sam
2/8/2019 2:26:35 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 10.853 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	77.3	115.9
119	65.4	48.9	73.3





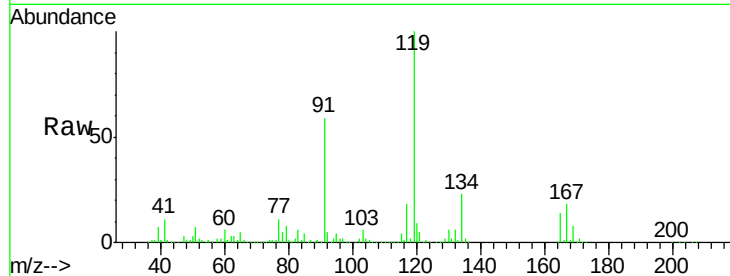
#61
 Pentachloroethane
 Concen: 10.923 ug/l
 RT: 11.10 min Scan# 3113
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

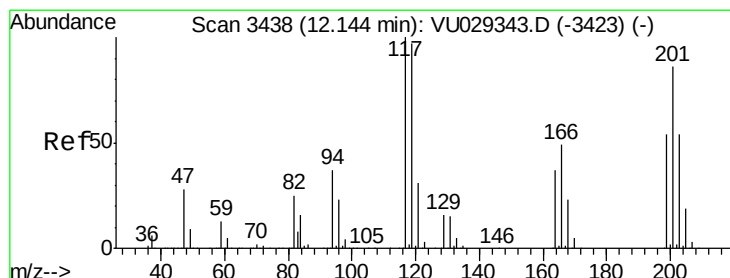
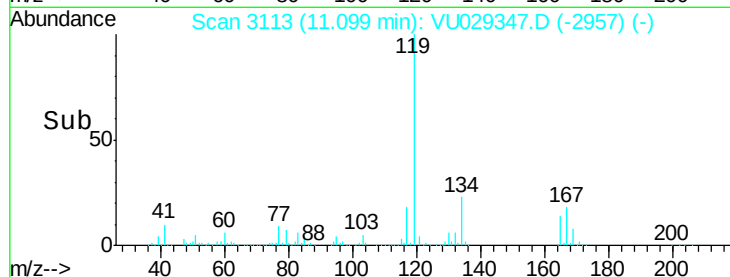
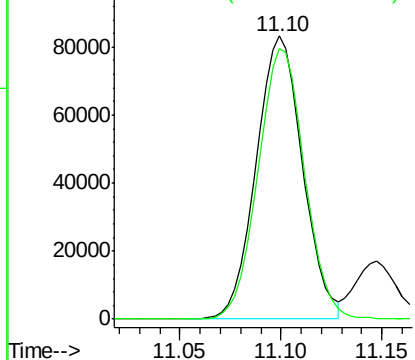
Tot Ion:117 Resp: 133164
 Ion Ratio Lower Upper
 117 100
 167 96.0 65.9 98.9

Manual Integrations
 APPROVED

sam
 2/8/2019 2:26:35 PM

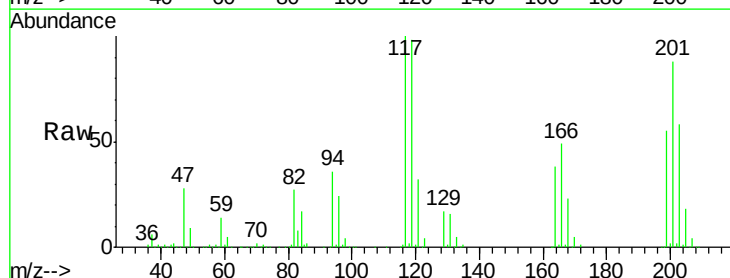


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 166.70 (166.40 to 167.40): V

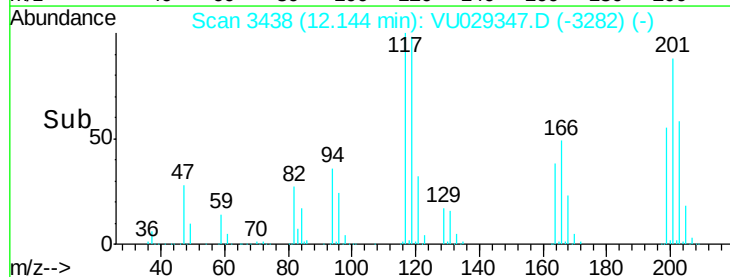
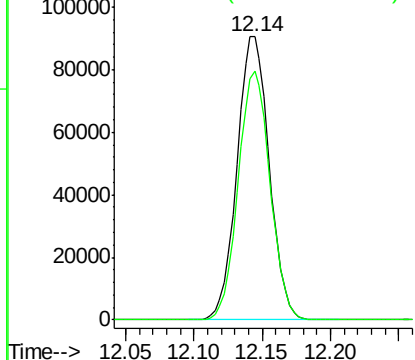


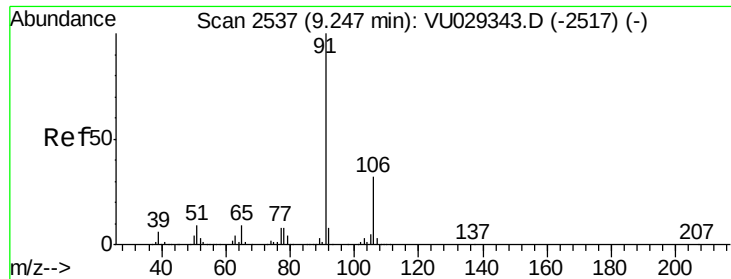
#62
 Hexachloroethane
 Concen: 11.175 ug/l
 RT: 12.14 min Scan# 3438
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion:117 Resp: 148701
 Ion Ratio Lower Upper
 117 100
 201 86.6 68.2 102.2



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.60 (200.30 to 201.30): V





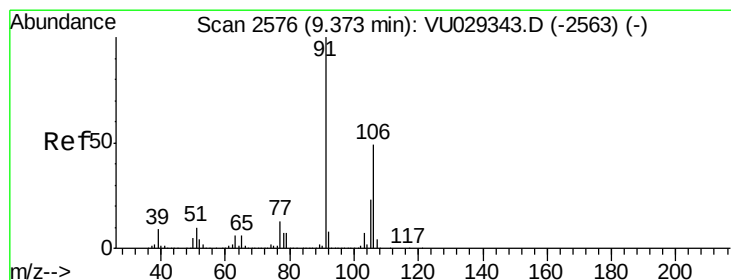
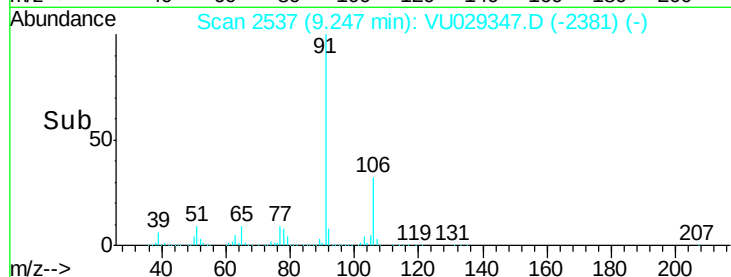
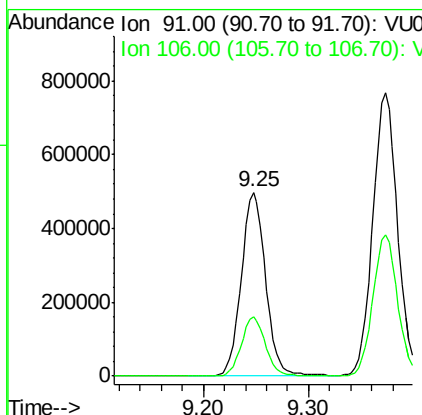
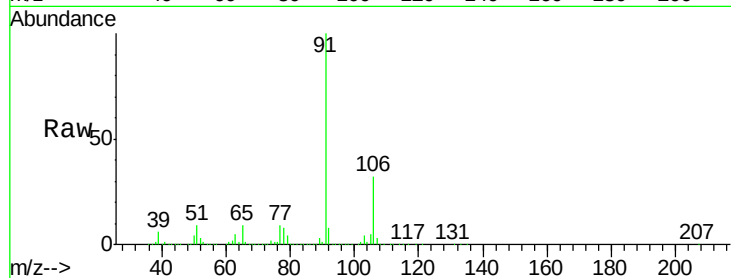
#63
Ethyl Benzene
Concen: 10.803 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion: 91 Resp: 798633
Ion Ratio Lower Upper
91 100
106 32.2 23.8 35.6

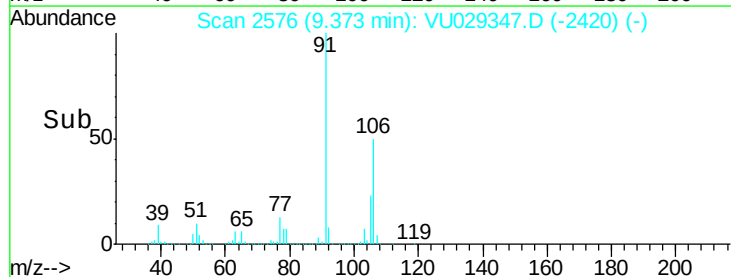
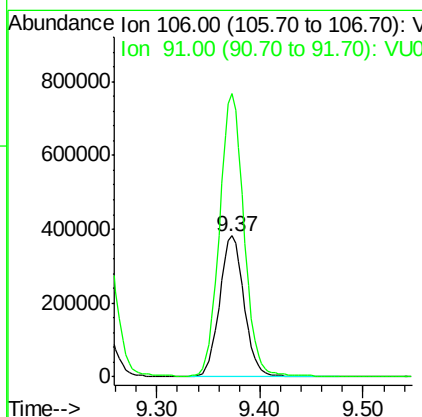
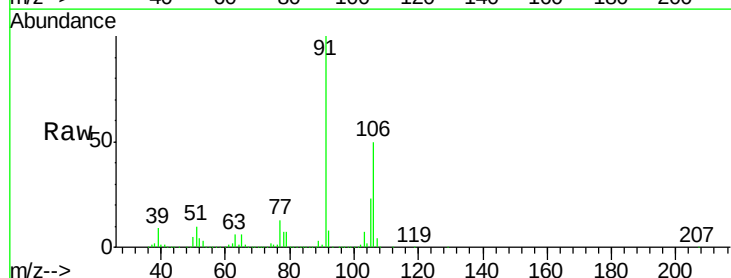
Manual Integrations
APPROVED

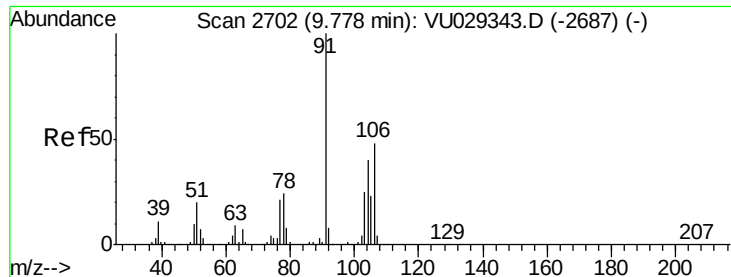
sam
2/8/2019 2:26:35 PM



#64
m/p-Xylenes
Concen: 21.916 ug/l
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion: 106 Resp: 629657
Ion Ratio Lower Upper
106 100
91 201.4 174.6 261.8





#65

o-Xylene

Concen: 10.897 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion:106 Resp: 307306

Ion Ratio Lower Upper

106 100

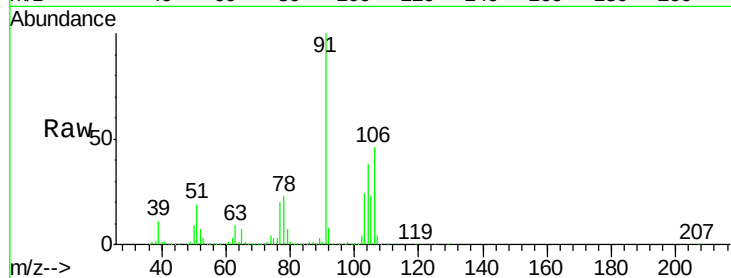
91 214.0 114.5 343.4

Manual Integrations

APPROVED

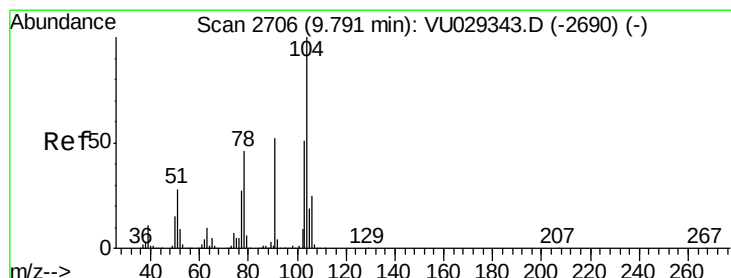
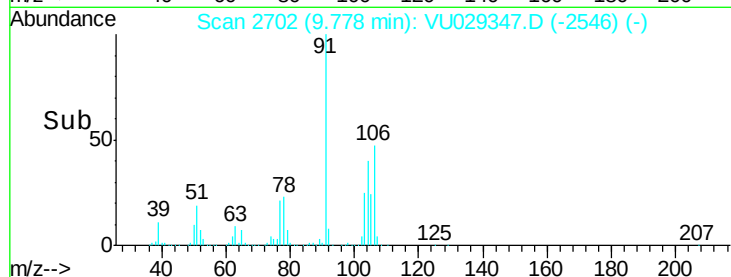
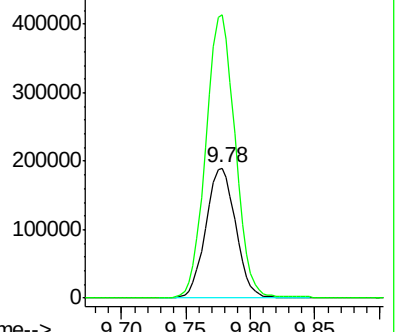
sam

2/8/2019 2:26:35 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#66

Styrene

Concen: 10.681 ug/l

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

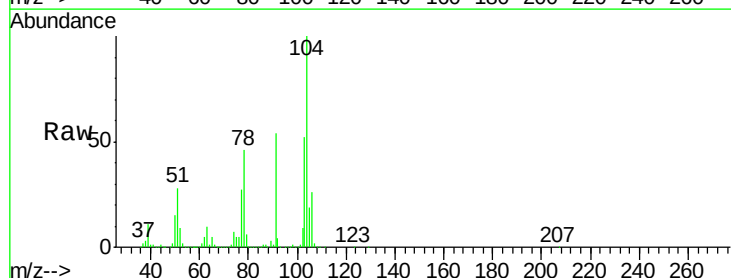
Tgt Ion:104 Resp: 502126

Ion Ratio Lower Upper

104 100

78 50.9 46.5 69.7

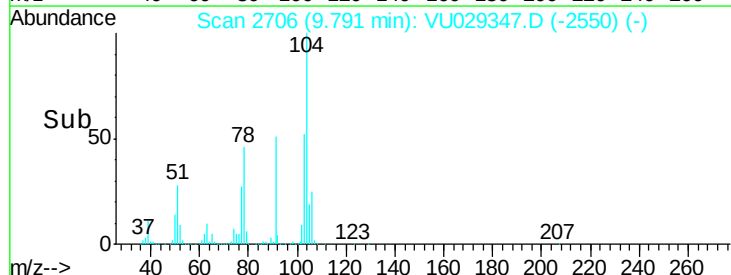
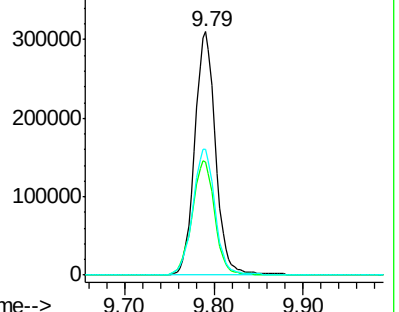
103 55.6 44.7 67.1

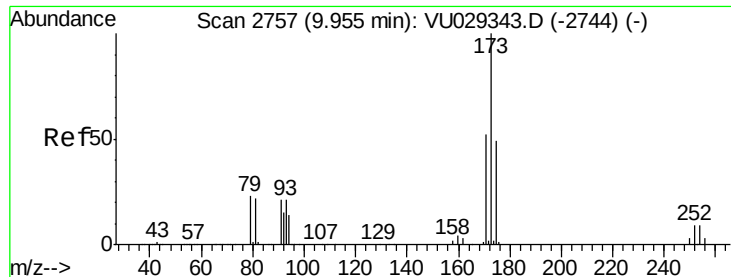


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V





#67

Bromoform

Concen: 10.949 ug/l

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

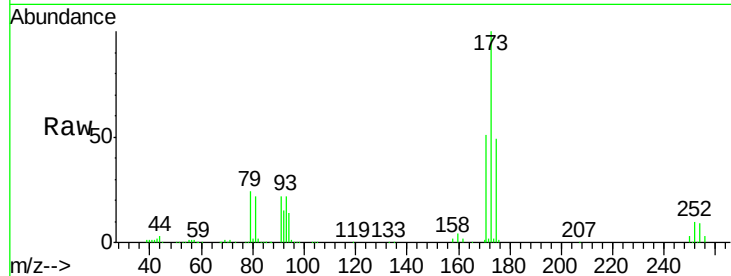
ClientSampleId :

VSTDICV010

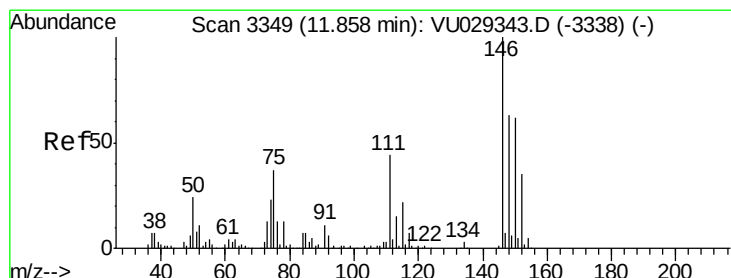
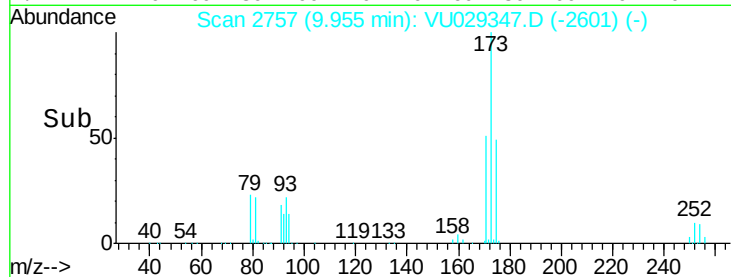
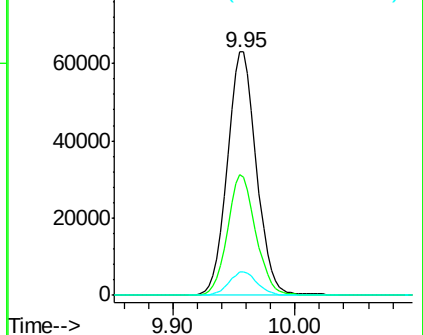
Tot Ion:	173	Resp:	104927
Ion Ratio	Lower	Upper	
173	100		
175	48.2	38.9	58.3
254	9.5	7.4	11.2

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 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: 10.949 ug/l

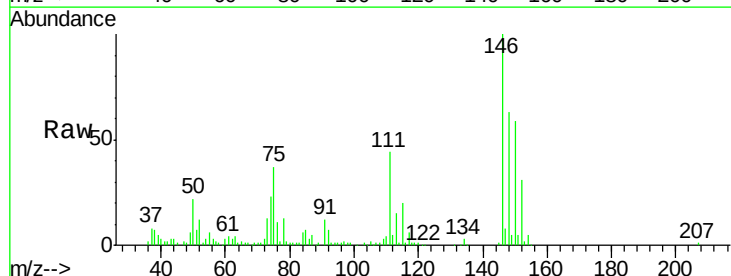
RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

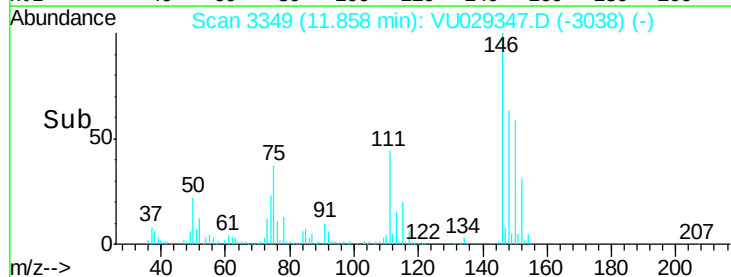
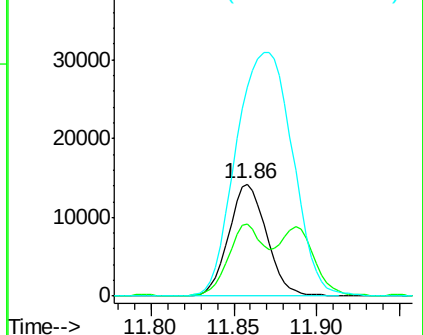
Lab File: VU029347.D

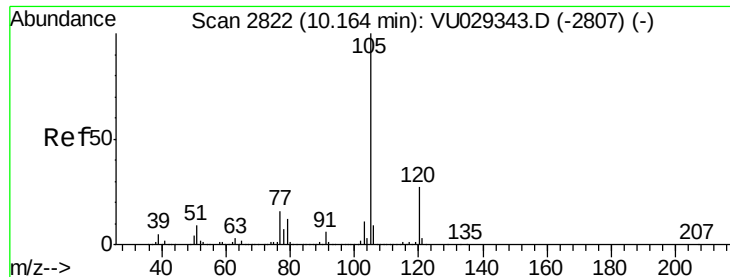
Acq: 05 Feb 2019 14:53

Tgt Ion:	152	Resp:	22703
Ion Ratio	Lower	Upper	
152	100		
115	59.7	0.0	133.4
150	324.4	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: 11.070 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion:105 Resp: 834084

Ion Ratio Lower Upper

105 100

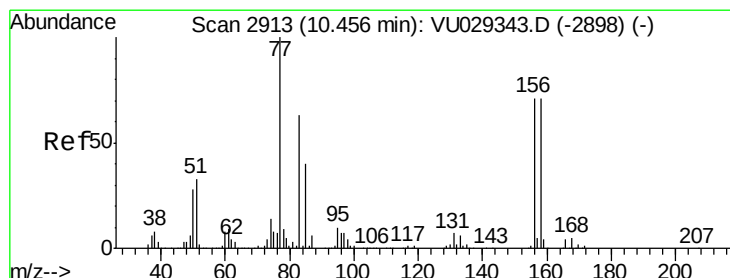
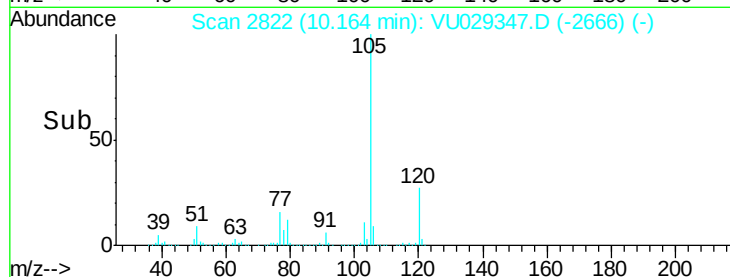
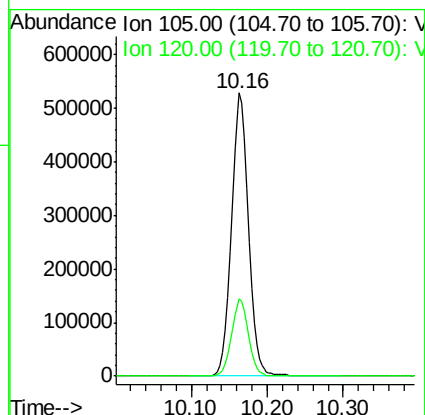
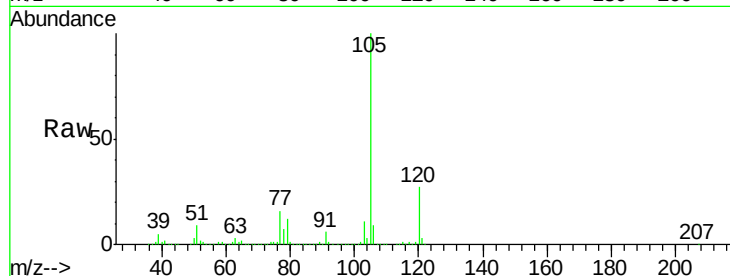
120 27.1 12.6 37.6

Manual Integrations

APPROVED

sam

2/8/2019 2:26:35 PM



#70

1,1,2,2-Tetrachloroethane

Concen: 10.476 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

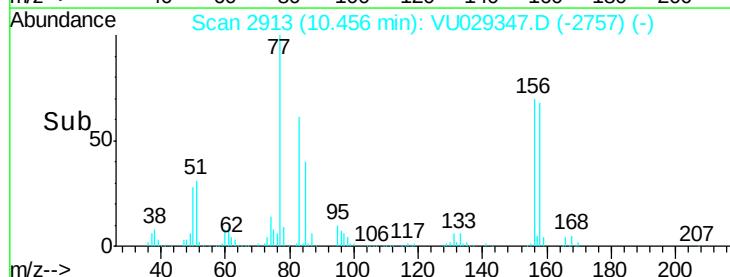
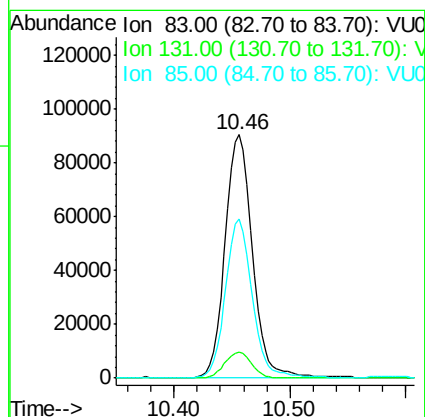
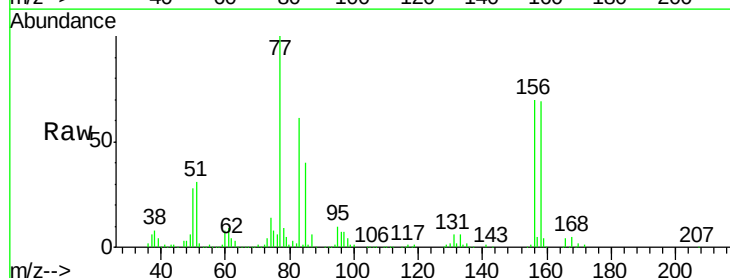
Tgt Ion: 83 Resp: 145524

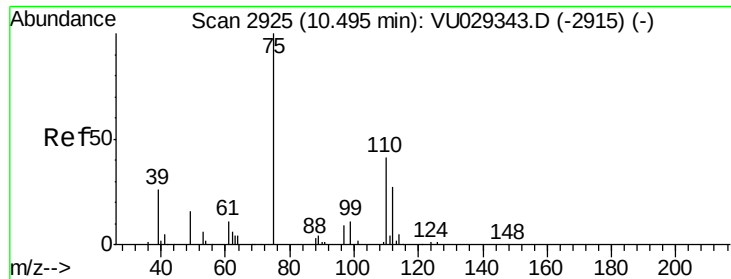
Ion Ratio Lower Upper

83 100

131 10.8 8.1 12.1

85 64.8 50.3 75.5





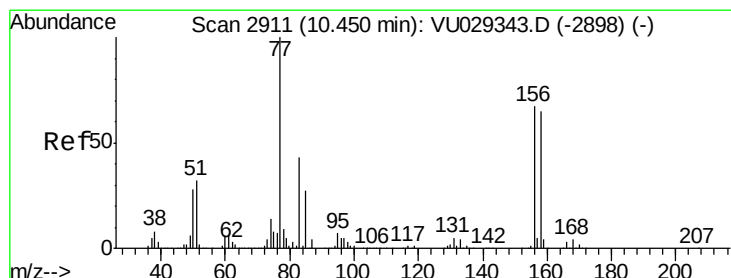
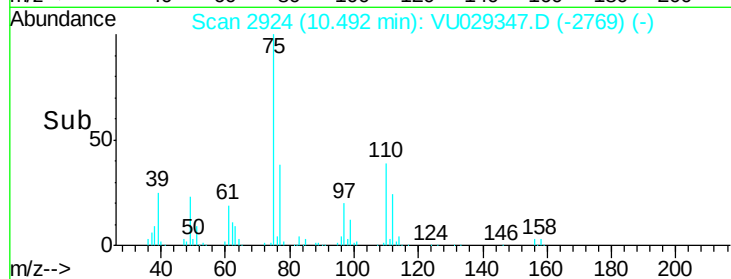
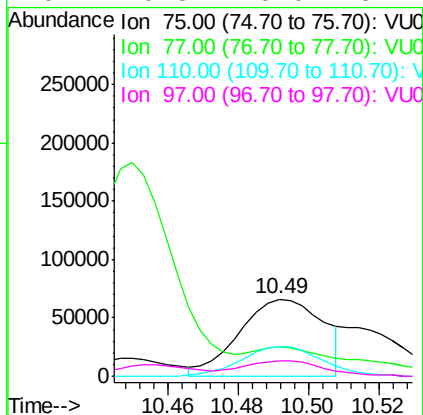
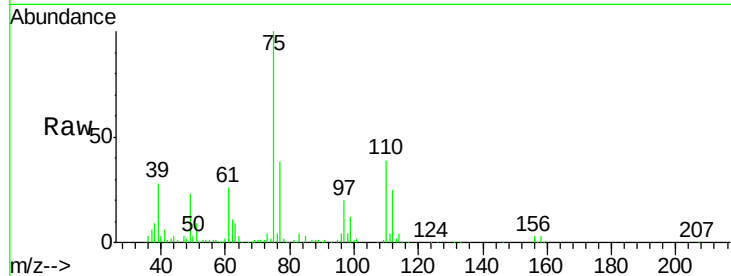
#71
1,2,3-Trichloropropane
Concen: 11.508 ug/l m
RT: 10.49 min Scan# 2924
Delta R.T. -0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	75	Resp	109779
Ion	Ratio	Lower	Upper
75	100		
77	46.2	0.0	0.0#
110	37.7	0.0	63.6
97	19.3	0.0	31.4

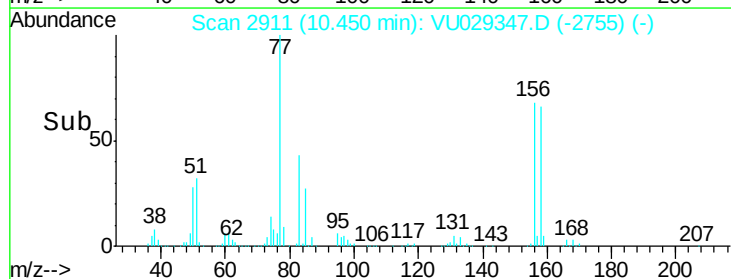
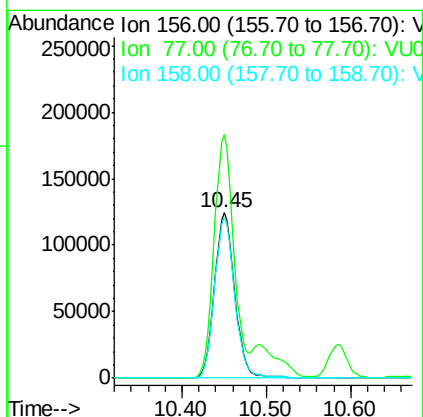
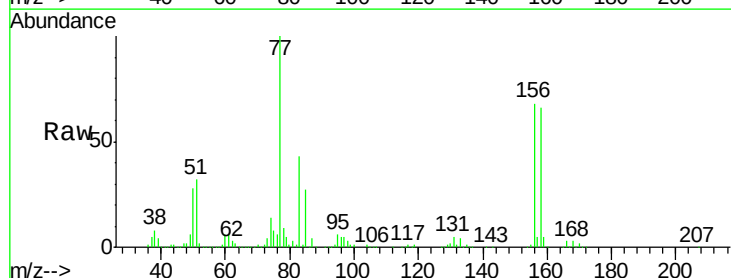
Manual Integrations
APPROVED

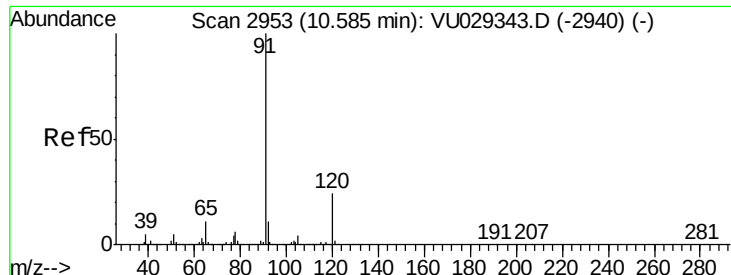
sam
2/8/2019 2:26:35 PM



#72
Bromobenzene
Concen: 11.303 ug/l
RT: 10.45 min Scan# 2911
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	156	Resp	206410
Ion	Ratio	Lower	Upper
156	100		
77	143.8	0.0	343.8
158	97.2	0.0	195.0





#73

n-propylbenzene

Concen: 11.109 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion:120 Resp: 233116

Ion Ratio Lower Upper

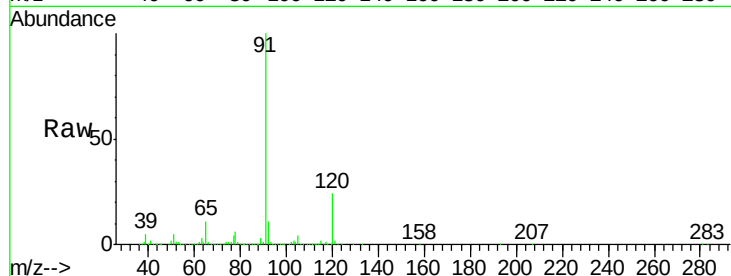
120 100

91 418.8 370.0 555.0

Manual Integrations
APPROVED

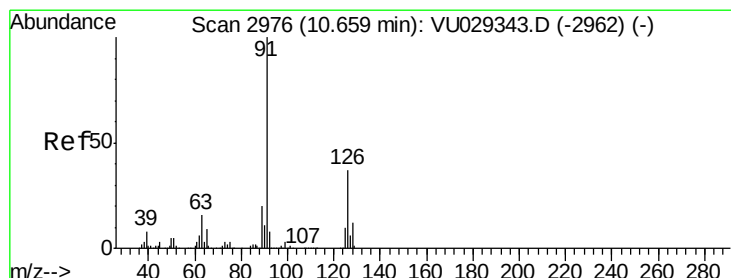
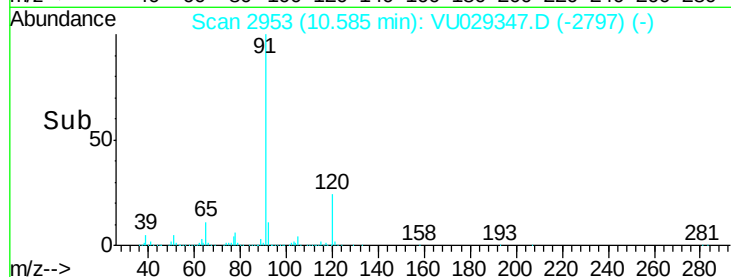
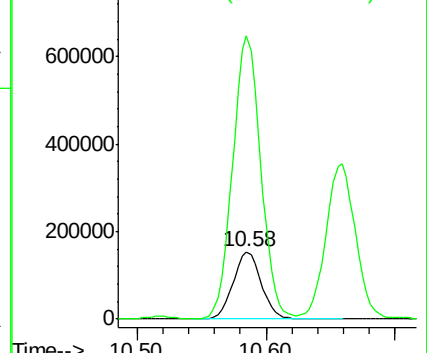
sam

2/8/2019 2:26:35 PM



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 11.097 ug/l

RT: 10.66 min Scan# 2976

Delta R.T. 0.00 min

Lab File: VU029347.D

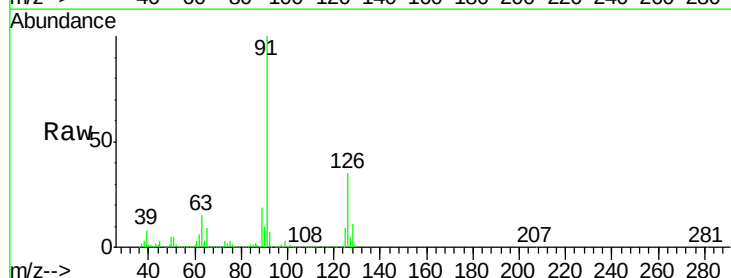
Acq: 05 Feb 2019 14:53

Tgt Ion:126 Resp: 198290

Ion Ratio Lower Upper

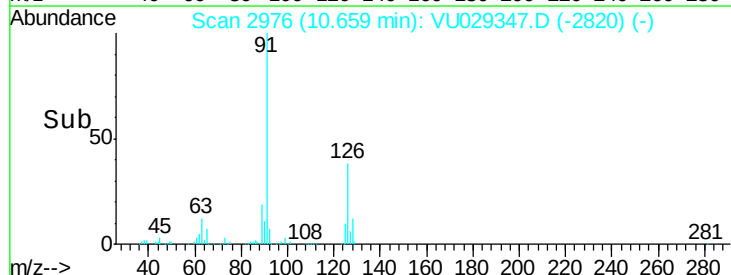
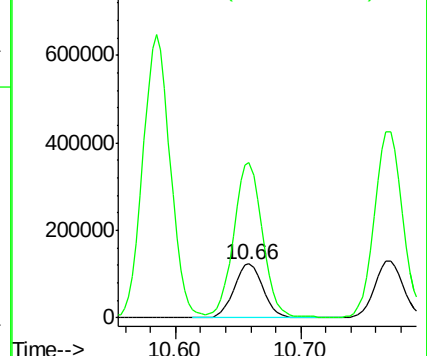
126 100

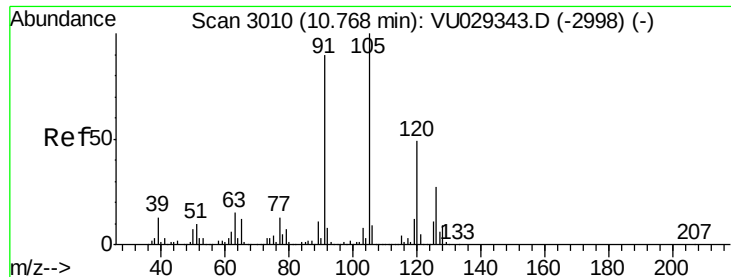
91 286.0 0.0 643.0



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: 11.113 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampled :

VSTDICV010

Tot Ion:105 Resp: 721891

Ion Ratio Lower Upper

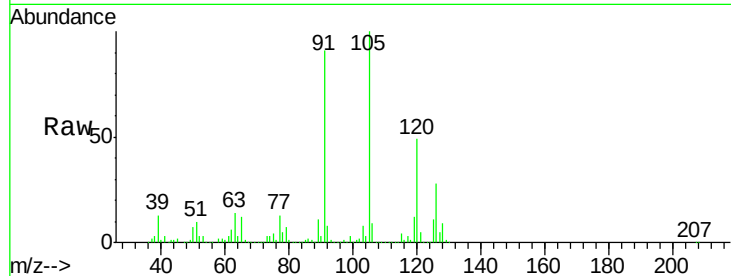
105 100

120 49.3 37.3 55.9

Manual Integrations
APPROVED

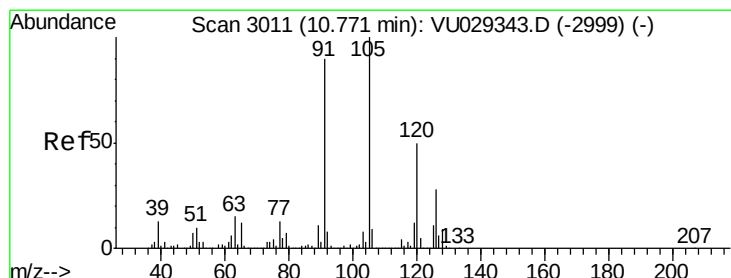
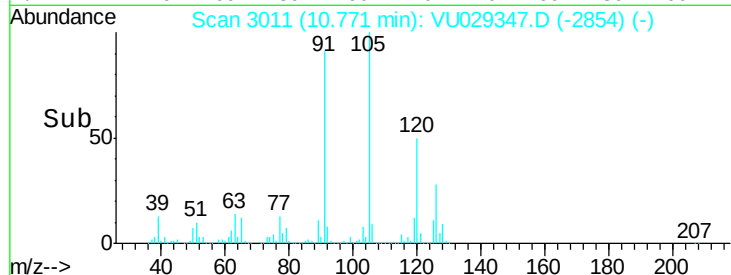
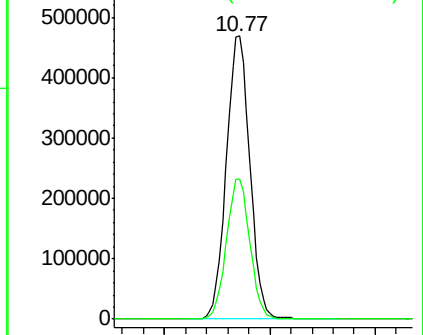
sam

2/8/2019 2:26:35 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

4-Chlorotoluene

Concen: 11.291 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU029347.D

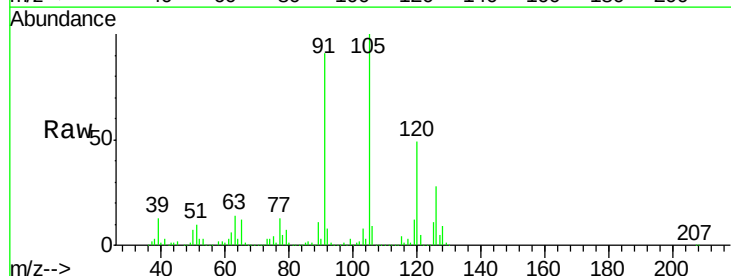
Acq: 05 Feb 2019 14:53

Tgt Ion:126 Resp: 209403

Ion Ratio Lower Upper

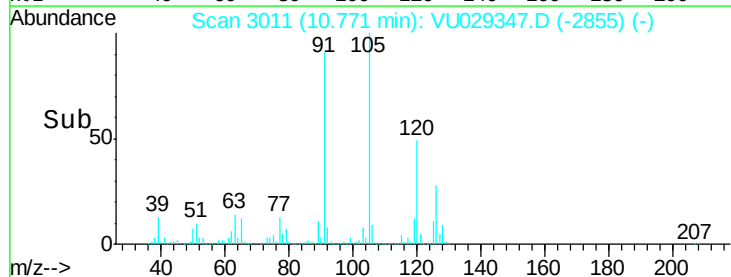
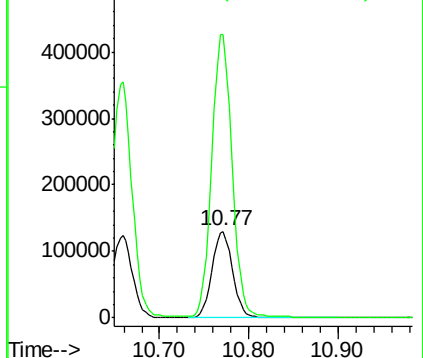
126 100

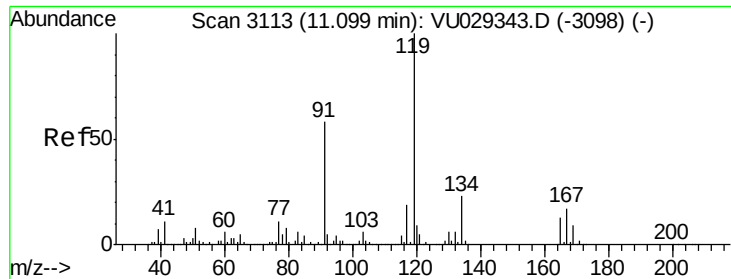
91 323.0 0.0 727.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#77

tert-Butylbenzene

Concen: 11.010 ug/l

RT: 11.10 min Scan# 3113

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

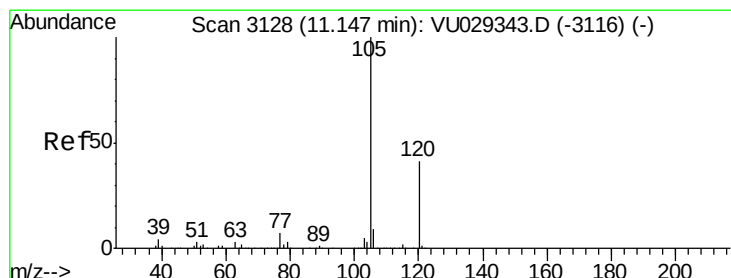
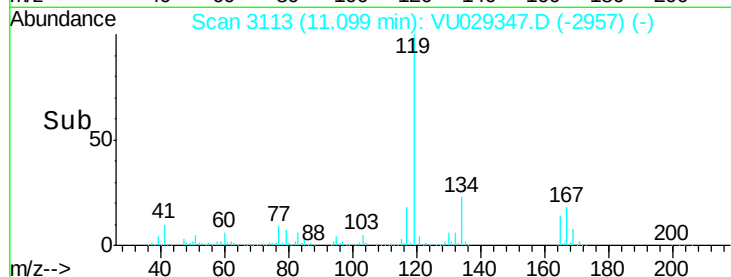
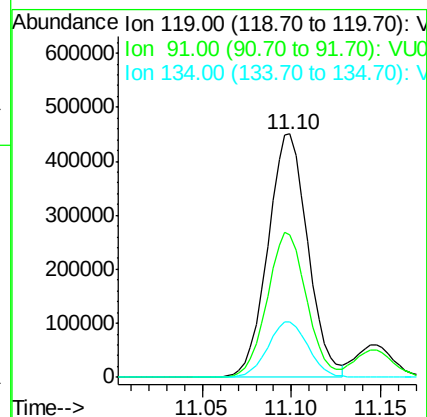
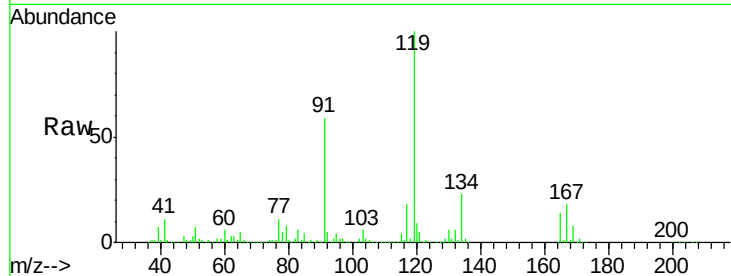
ClientSampleId :

VSTDICV010

Tot Ion:	119	Resp:	706900
Ion Ratio	Lower	Upper	
119	100		
91	58.2	32.2	96.6
134	23.0	17.6	26.4

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



#78

1,2,4-Trimethylbenzene

Concen: 11.153 ug/l

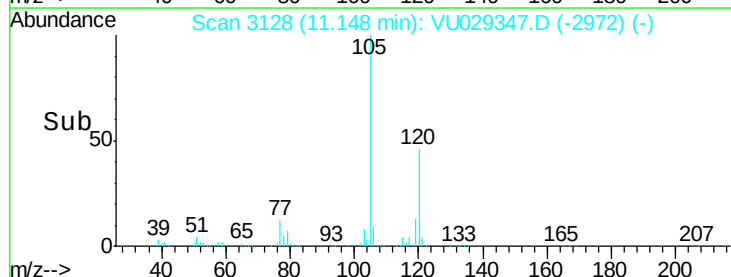
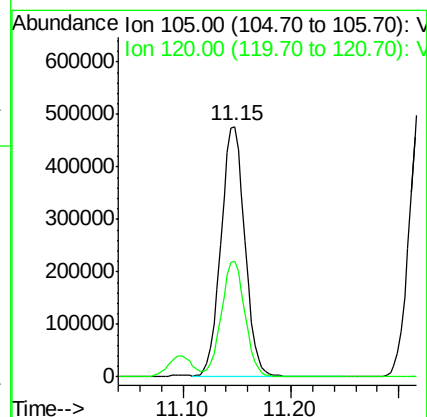
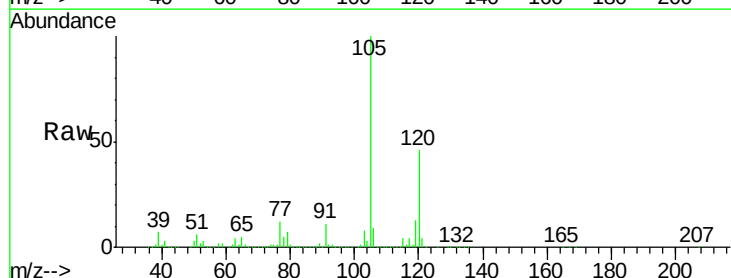
RT: 11.15 min Scan# 3128

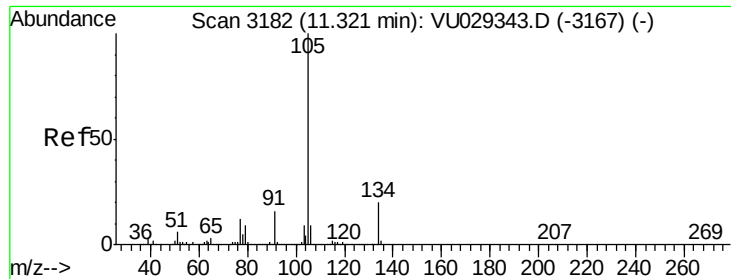
Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Tgt Ion:	105	Resp:	733440
Ion Ratio	Lower	Upper	
105	100		
120	45.8	21.4	64.3





#79

sec-Butylbenzene

Concen: 10.667 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

VSTDICV010

Tot Ion:105 Resp: 896109

Ion Ratio Lower Upper

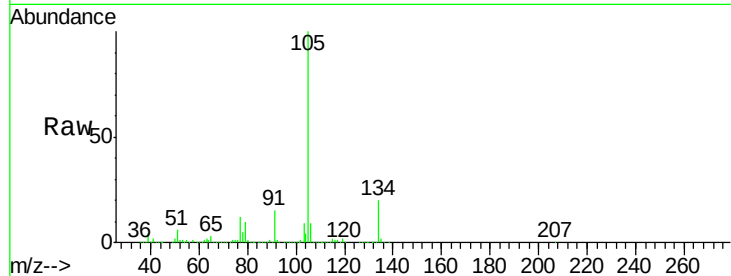
105 100

134 20.4 15.0 22.6

Manual Integrations
APPROVED

sam

2/8/2019 2:26:35 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

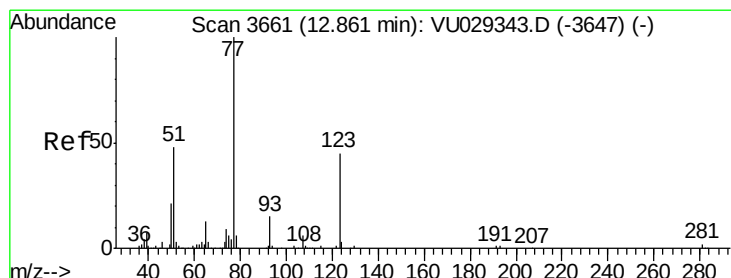
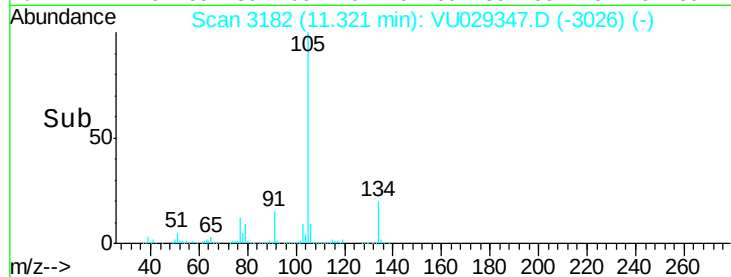
600000

400000

200000

0

Time-->



#80

Nitrobenzene

Concen: 11.210 ug/l

RT: 12.87 min Scan# 3664

Delta R.T. 0.01 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

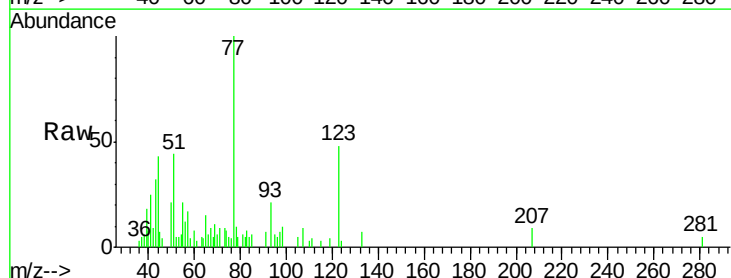
Tgt Ion: 77 Resp: 6938

Ion Ratio Lower Upper

77 100

123 50.7 17.5 61.9

65 16.2 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

12.87

5000

4000

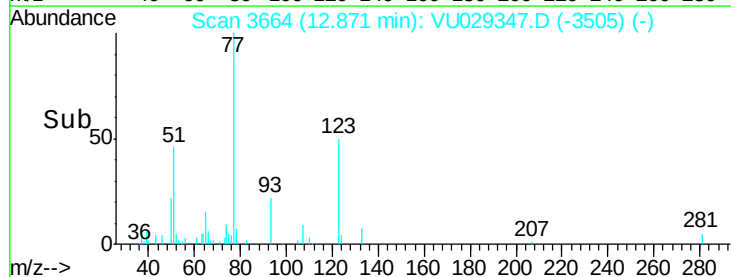
3000

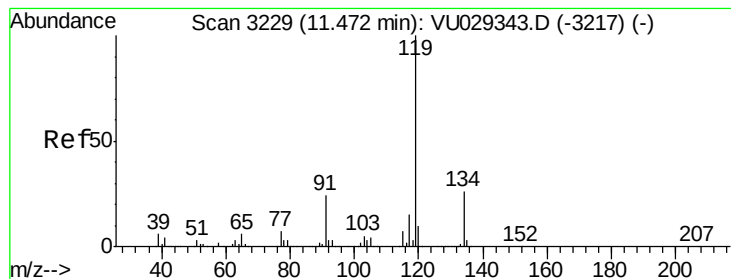
2000

1000

0

Time-->





#81

p-Isopropyltoluene

Concen: 11.226 ug/l

RT: 11.47 min Scan# 3229

Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Instrument :

MSVOA_U

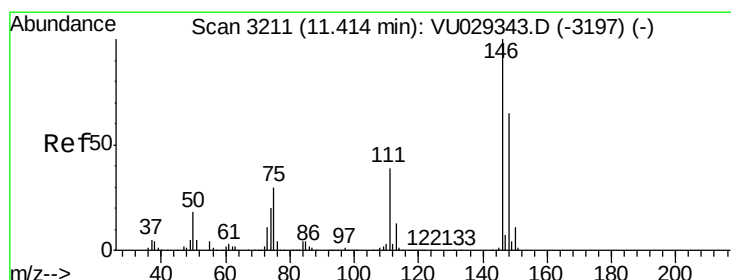
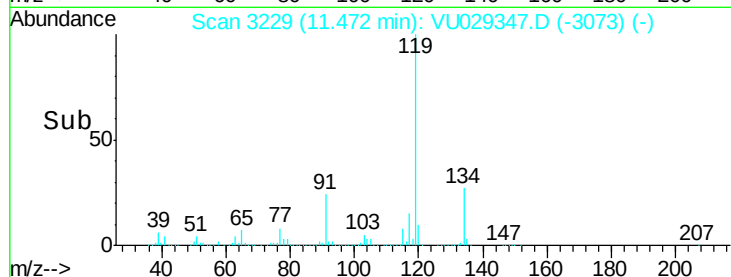
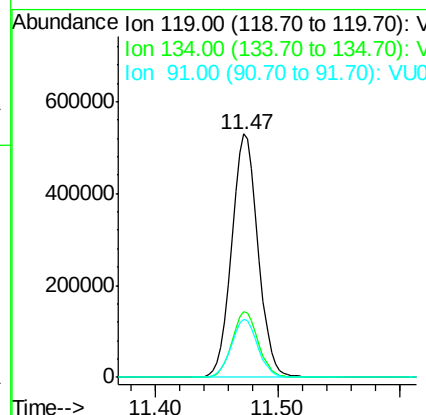
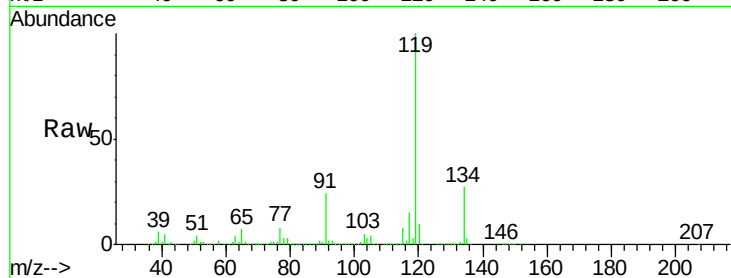
ClientSampleId :

VSTDICV010

Tot Ion:	119	Resp:	799455
Ion Ratio	Lower	Upper	
119	100		
134	27.0	19.8	29.6
91	23.7	21.5	32.3

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



#82

1,3-Dichlorobenzene

Concen: 11.143 ug/l

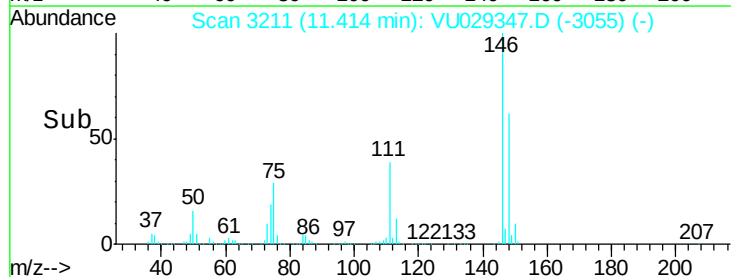
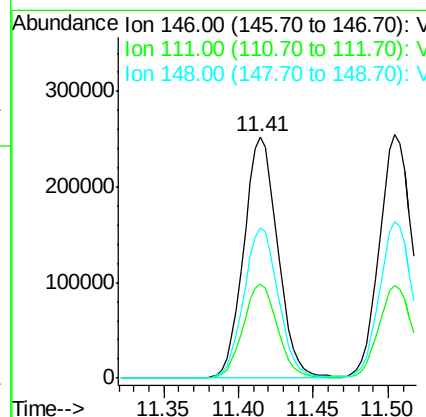
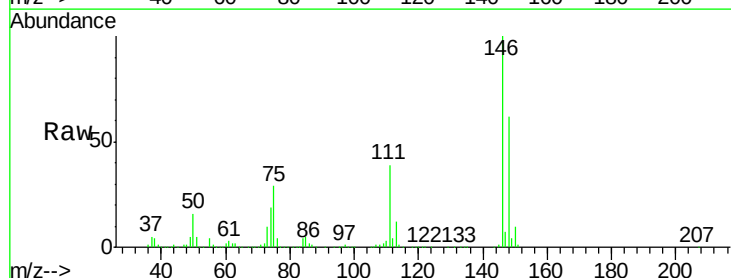
RT: 11.41 min Scan# 3211

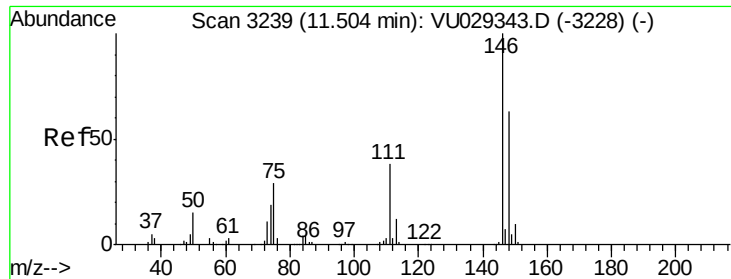
Delta R.T. 0.00 min

Lab File: VU029347.D

Acq: 05 Feb 2019 14:53

Tgt Ion:	146	Resp:	399253
Ion Ratio	Lower	Upper	
146	100		
111	39.4	34.1	51.1
148	63.5	52.3	78.5





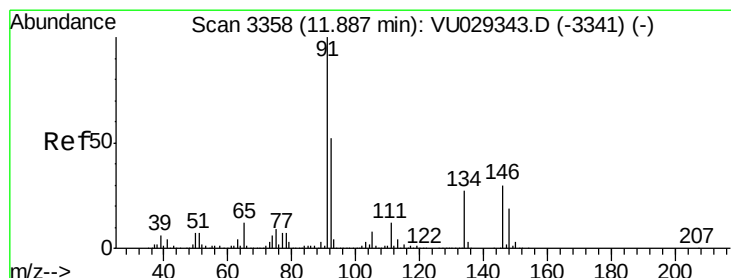
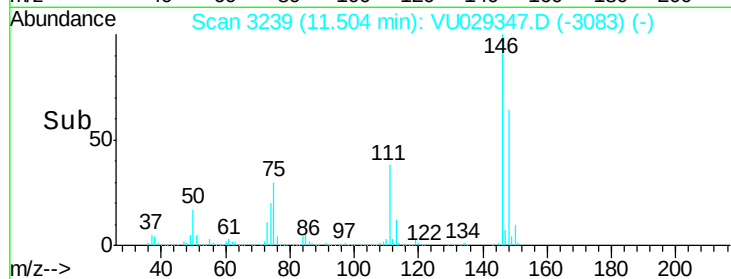
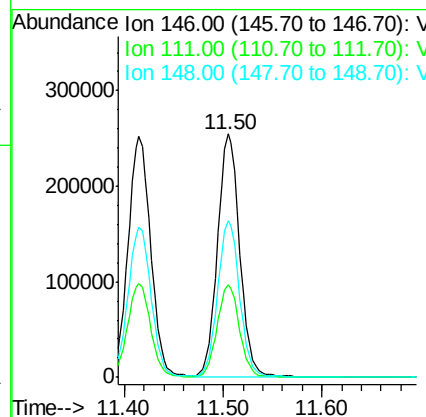
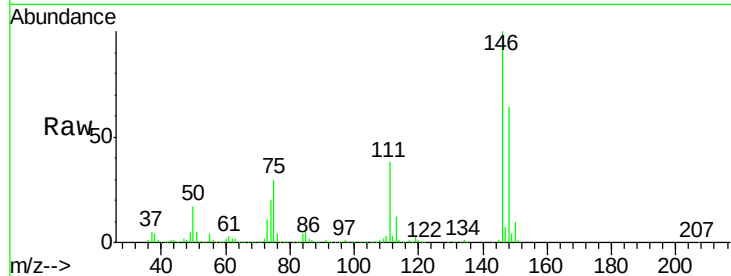
#83
 1,4-Dichlorobenzene
 Concen: 11.222 ug/l
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	32.9	49.3
148	63.9	51.8	77.6

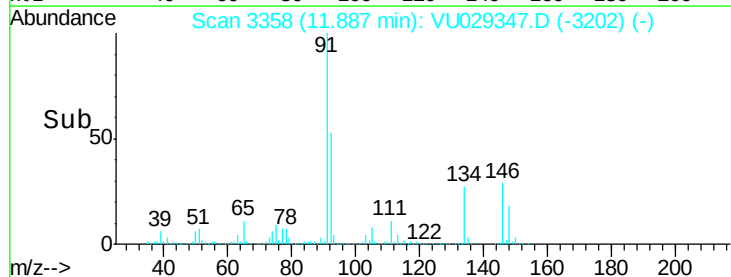
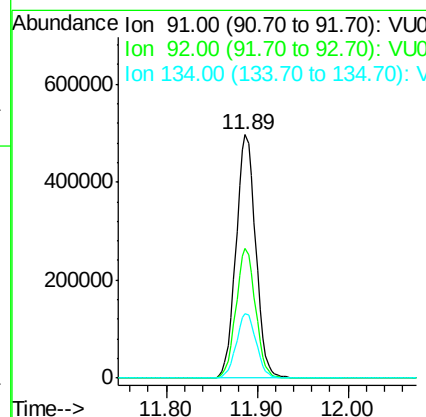
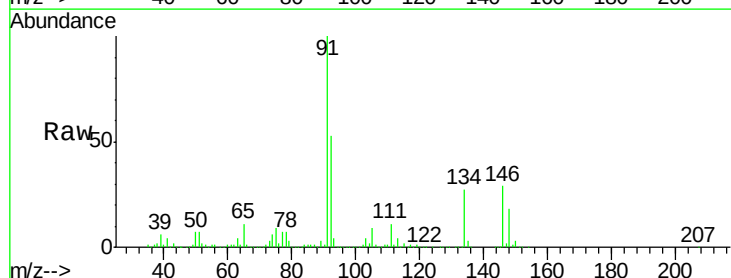
Manual Integrations
 APPROVED

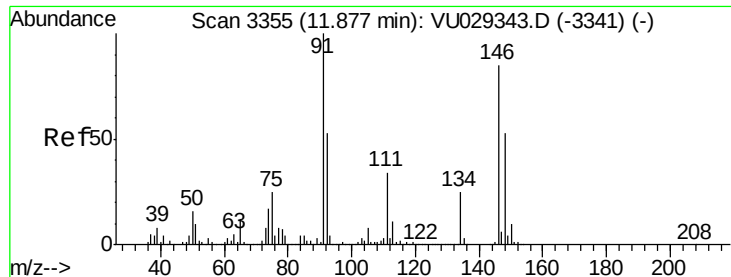
sam
 2/8/2019 2:26:35 PM



#84
 n-Butylbenzene
 Concen: 11.415 ug/l
 RT: 11.89 min Scan# 3358
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	41.0	61.6
134	26.7	19.1	28.7





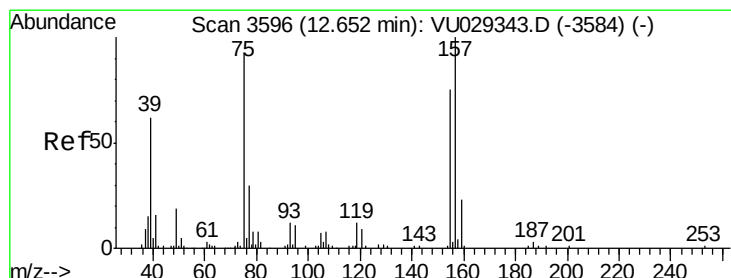
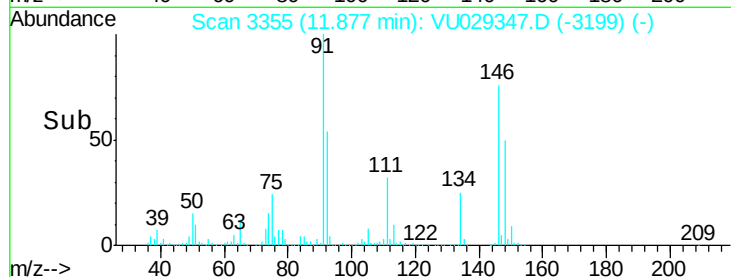
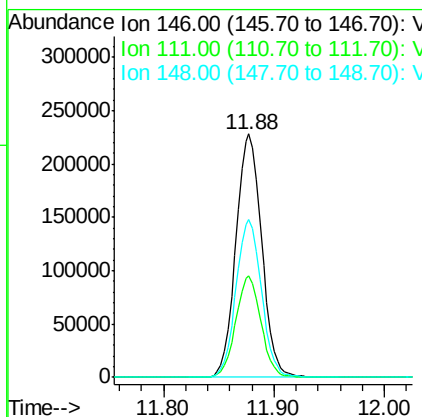
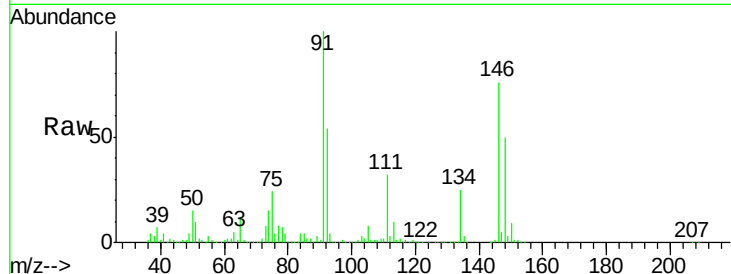
#85
 1,2-Dichlorobenzene
 Concen: 10.906 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

Tot Ion	Ratio	Resp	Lower	Upper
146	100	369455		
111	40.8	21.9	65.8	
148	64.2	31.8	95.3	

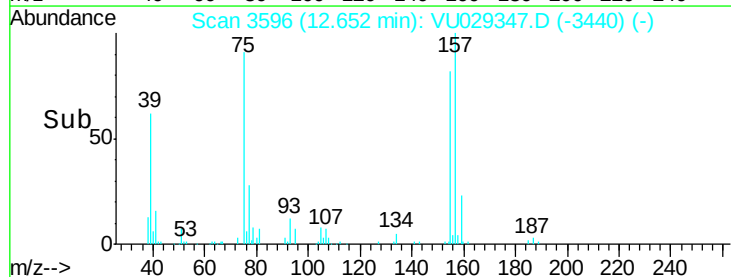
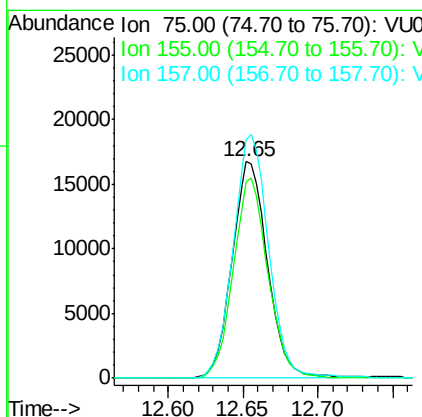
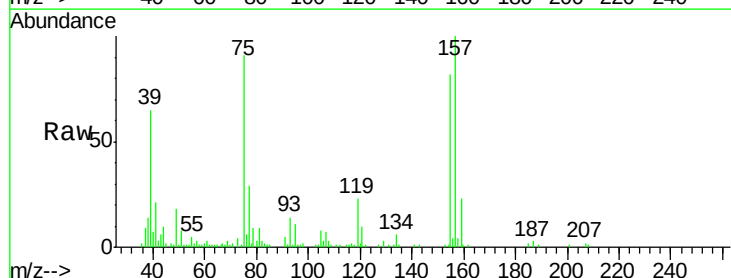
Manual Integrations
 APPROVED

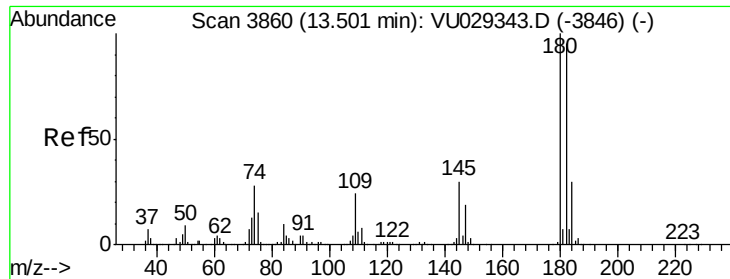
sam
 2/8/2019 2:26:35 PM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 10.652 ug/l
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	27615		
155	89.9	53.8	80.8#	
157	113.2	69.2	103.8#	





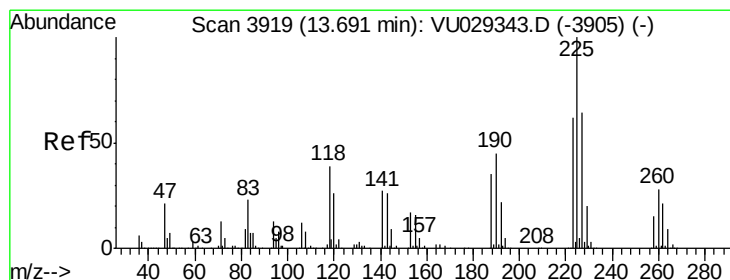
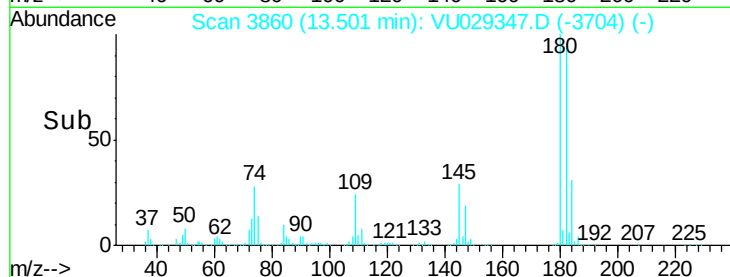
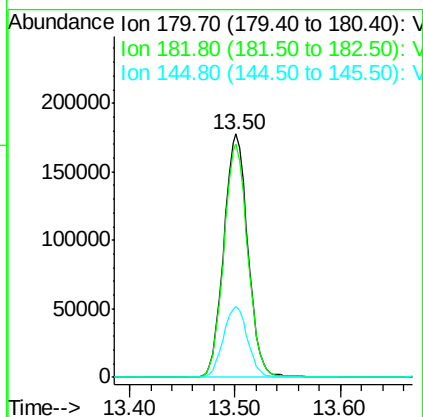
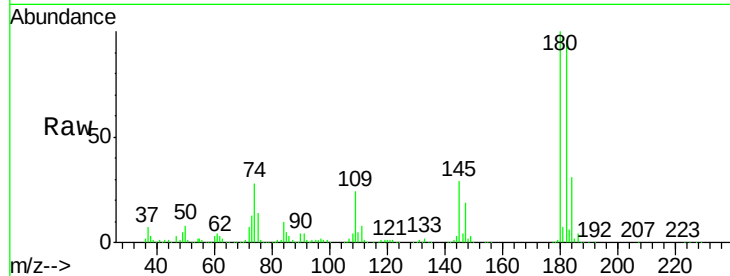
#87
 1,2,4-Trichlorobenzene
 Concen: 11.792 ug/l
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICV010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.6	114.8
145	29.4	24.6	36.8

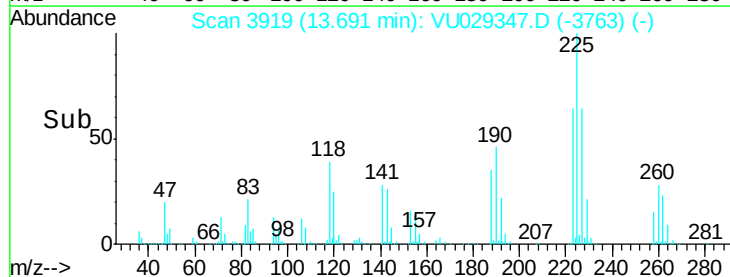
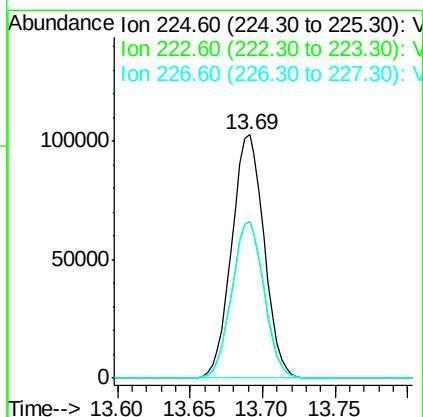
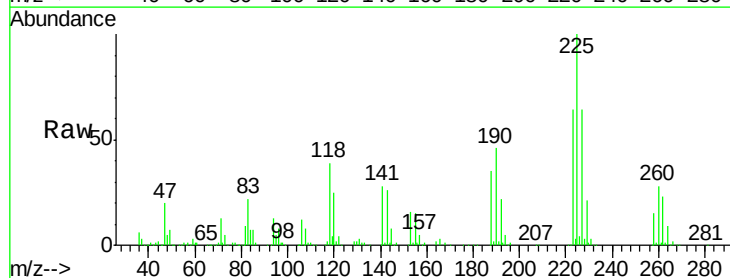
Manual Integrations
 APPROVED

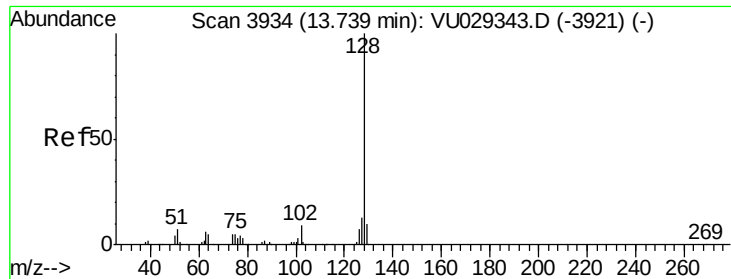
sam
 2/8/2019 2:26:35 PM



#88
 Hexachlorobutadiene
 Concen: 11.539 ug/l
 RT: 13.69 min Scan# 3919
 Delta R.T. 0.00 min
 Lab File: VU029347.D
 Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	49.5	74.3
227	64.4	50.4	75.6





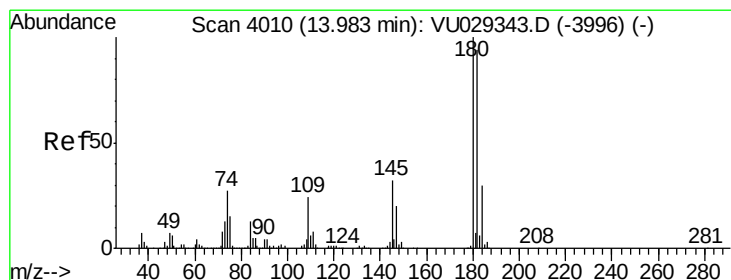
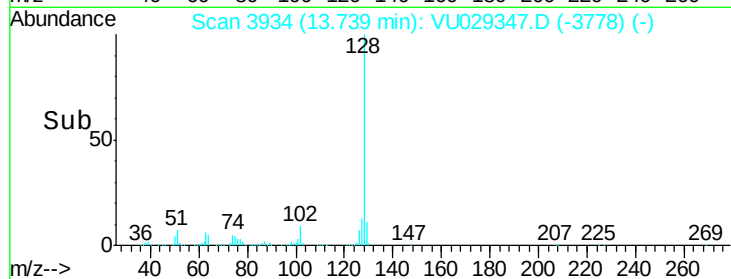
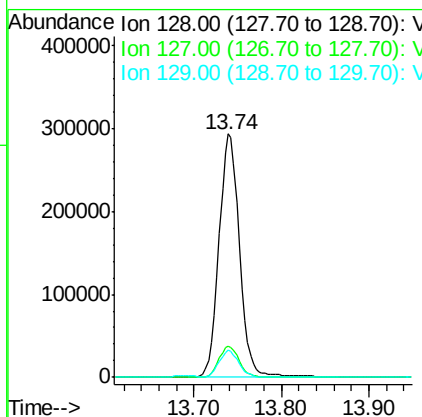
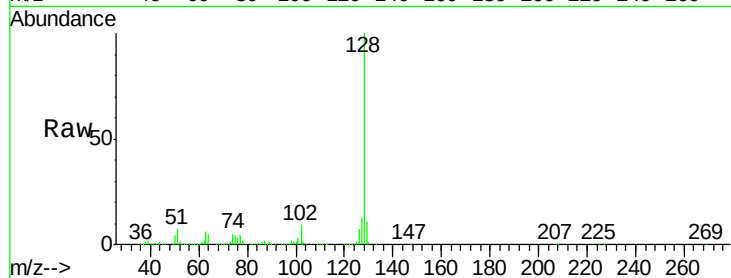
#89
Naphthalene
Concen: 11.878 ug/l
RT: 13.74 min Scan# 3934
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Instrument :
MSVOA_U
ClientSampleId :
VSTDICV010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.7	16.1
129	10.4	8.2	12.4

Manual Integrations
APPROVED

sam
2/8/2019 2:26:35 PM



#90
1,2,3-Trichlorobenzene
Concen: 11.467 ug/l
RT: 13.98 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VU029347.D
Acq: 05 Feb 2019 14:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	78.0	117.0
145	31.6	26.6	39.8

