

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU043018\
 Data File : VU023528.D
 Acq On : 30 Apr 2018 15:25
 Operator : MD/SY
 Sample : VSTDIC001
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 5/3/2018 4:39:03 PM

Quant Time: May 01 04:51:57 2018
 Quant Method : W:\HPCHEM1\MSVOA U\METHOD\524U043018DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue May 01 04:31:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	51548	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	16053	0.87	ug/l	0.00
Spiked Amount 1.000			Recovery	=	87.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	16170	0.89	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.00%	
Target Compounds						
						Ovalue
2) Dichlorodifluoromethane	1.21	85	16786	1.03	ug/l	99
3) Chloromethane	1.33	50	20396	0.99	ug/l	96
4) Vinyl Chloride	1.40	62	18937	1.01	ug/l #	84
5) Bromomethane	1.63	94	10224	0.84	ug/l	98
6) Chloroethane	1.70	64	11328	1.05	ug/l	100
7) Trichlorofluoromethane	1.89	101	21821	1.03	ug/l	97
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	13480	1.07	ug/l	99
9) 1,1-Dichloroethene	2.29	96	12301	0.97	ug/l	97
10) Iodomethane	2.42	142	13504	0.95	ug/l	99
11) Allyl Chloride	2.60	41	23036	1.14	ug/l	99
12) Acrylonitrile	2.96	53	5492	1.91	ug/l	92
13) Acetone	2.36	43	11123	4.87	ug/l	96
14) Carbon Disulfide	2.48	76	41123	1.03	ug/l	100
15) Methylene Chloride	2.71	84	14230	0.93	ug/l	98
16) trans-1,2-Dichloroethene	2.99	96	13280	0.97	ug/l	98
17) 1,1-Dichloroethane	3.45	63	25874	1.01	ug/l	99
18) 2-Butanone	4.31	43	17570	5.03	ug/l	99
19) Cyclohexane	4.99	56	22893	1.24	ug/l	99
20) Methylcyclohexane	6.41	83	21289	1.00	ug/l	98
21) 2,2-Dichloropropane	4.23	77	20898	1.12	ug/l	98
22) cis-1,2-Dichloroethene	4.23	96	14598	0.96	ug/l	100
23) Diethyl Ether	2.11	59	9908	0.96	ug/l	97
24) tert-Butyl Alcohol	2.92	59	7480m	7.44	ug/l	
25) Methyl tert-Butyl Ether	3.01	73	31424	0.98	ug/l	95
26) Bromochloromethane	4.55	128	5777	0.86	ug/l	99
27) Chloroform	4.68	83	25015	0.98	ug/l	96
28) 1,1,1-Trichloroethane	4.91	97	19787	1.01	ug/l	100
29) 1,1-Dichloropropene	5.13	75	19794	1.02	ug/l	97
30) Carbon Tetrachloride	5.13	117	16160	0.98	ug/l	97
31) Isopropyl Ether	3.58	45	42896	1.10	ug/l	97
32) Ethyl-t-butyl ether	4.09	59	37545	1.07	ug/l	100
33) Tert-Amyl methyl ether	5.60	73	30778	1.01	ug/l	98
34) Propionitrile	4.39	54	4891m	4.63	ug/l	
35) Benzene	5.39	78	53760	0.92	ug/l	100
36) 1,2-Dichloroethane	5.41	62	16214	1.05	ug/l	97
37) Trichloroethene	6.18	130	15444	0.99	ug/l	96
38) 1,2-Dichloropropane	6.44	63	15649	1.05	ug/l	99
39) Methacrylonitrile	4.56	41	5153	1.18	ug/l	94
40) Methyl acrylate	4.45	55	6677	1.01	ug/l #	95
41) Tetrahydrofuran	4.68	42	5916	2.42	ug/l	93
42) 1-Chlorobutane	5.07	56	27835	1.07	ug/l	99

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU043018\
 Data File : VU023528.D
 Acq On : 30 Apr 2018 15:25
 Operator : MD/SY
 Sample : VSTDIC001
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTDIC001

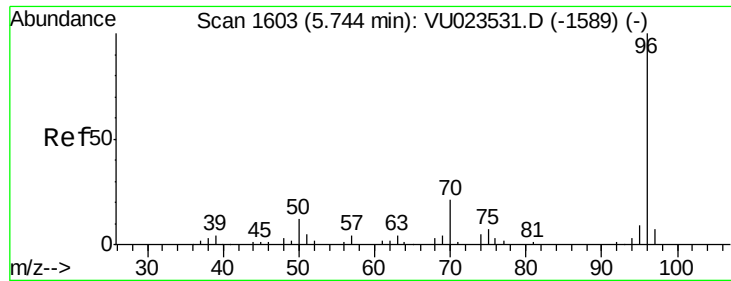
Manual Integrations
 APPROVED

apatel
 5/3/2018 4:39:03 PM

Quant Time: May 01 04:51:57 2018
 Quant Method : W:\HPCHEM1\MSVOA U\METHOD\524U043018DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue May 01 04:31:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.57	93	7010	1.00	ug/l	96
44) Bromodichloromethane	6.76	83	16827	1.02	ug/l	96
45) 4-Methyl-2-Pentanone	7.48	43	37559	4.63	ug/l	99
46) t-1,4-Dichloro-2-butene	10.52	75	4364m	1.73	ug/l	
47) Methyl methacrylate	6.64	69	11172	1.67	ug/l	97
48) Ethyl methacrylate	8.03	69	9994	0.84	ug/l	95
49) Toluene	7.64	92	31345	0.92	ug/l	96
50) t-1,3-Dichloropropene	7.89	75	13300	0.94	ug/l	96
51) cis-1,3-Dichloropropene	7.27	75	17960	0.98	ug/l	99
52) 1,1,2-Trichloroethane	8.08	97	9385	0.92	ug/l	97
53) 1,3-Dichloropropane	8.25	76	16788	0.95	ug/l	99
54) 2-Hexanone	8.38	43	24814	4.49	ug/l	98
55) Dibromochloromethane	8.48	129	10367	0.98	ug/l	97
56) 1,2-Dibromoethane	8.59	107	8110	0.90	ug/l	98
58) Tetrachloroethene	8.23	164	13753	0.99	ug/l	99
59) Chlorobenzene	9.12	112	35269	0.94	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.21	131	11730	0.93	ug/l	98
61) Pentachloroethane	11.10	117	8929	0.97	ug/l	88
62) Hexachloroethane	12.15	117	7761	0.94	ug/l	100
63) Ethyl Benzene	9.25	91	54663	0.88	ug/l	98
64) m/p-Xylenes	9.38	106	41117	1.72	ug/l	99
65) o-Xylene	9.78	106	20253	0.86	ug/l	99
66) Styrene	9.80	104	32226	0.83	ug/l	98
67) Bromoform	9.97	173	5240	0.91	ug/l	99
69) Isopropylbenzene	10.17	105	52031	0.88	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.46	83	11048	0.90	ug/l	100
71) 1,2,3-Trichloropropane	10.50	75	8494m	0.94	ug/l	
72) Bromobenzene	10.46	156	13704	0.87	ug/l	98
73) n-propylbenzene	10.59	120	14308	0.86	ug/l	100
74) 2-Chlorotoluene	10.67	126	13165	0.88	ug/l	93
75) 1,3,5-Trimethylbenzene	10.78	105	43210	0.85	ug/l	98
76) 4-Chlorotoluene	10.78	126	13501	0.87	ug/l	93
77) tert-Butylbenzene	11.10	119	41308	0.86	ug/l	98
78) 1,2,4-Trimethylbenzene	11.15	105	43345	0.84	ug/l	99
79) sec-Butylbenzene	11.33	105	57966	0.89	ug/l	99
80) Nitrobenzene	12.87	77	1827	6.56	ug/l #	86
81) p-Isopropyltoluene	11.48	119	46760	0.86	ug/l	98
82) 1,3-Dichlorobenzene	11.42	146	27718	0.90	ug/l	99
83) 1,4-Dichlorobenzene	11.51	146	27647	0.89	ug/l	97
84) n-Butylbenzene	11.89	91	45712	0.89	ug/l	98
85) 1,2-Dichlorobenzene	11.88	146	25110	0.87	ug/l	98
86) 1,2-Dibromo-3-Chloropropan	12.66	75	1440	0.87	ug/l	96
87) 1,2,4-Trichlorobenzene	13.51	180	17330	0.86	ug/l	99
88) Hexachlorobutadiene	13.70	225	11057	0.99	ug/l	98
89) Naphthalene	13.75	128	24400	0.76	ug/l	100
90) 1,2,3-Trichlorobenzene	13.99	180	16193	0.84	ug/l	99

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



#1

Fluorobenzene

Concen: 1.00 ug/l

RT: 5.74 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

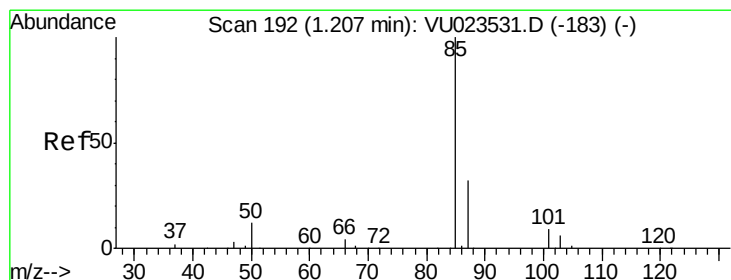
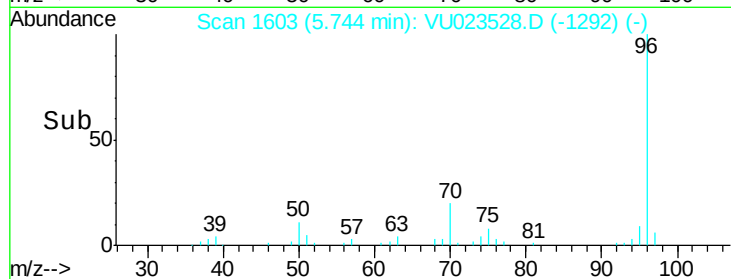
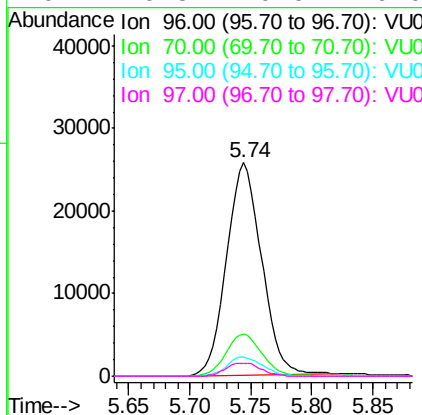
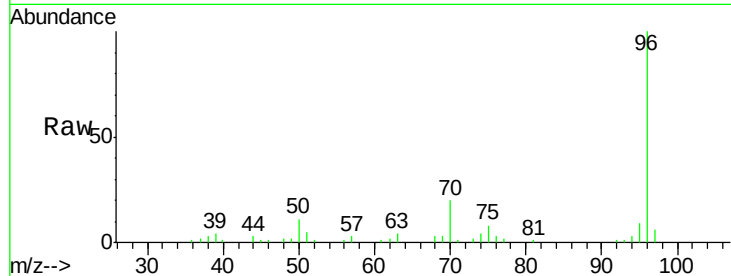
ClientSampleId :

VSTDIC001

Tot Ion:	96	Resp:	51548
Ion	Ratio	Lower	Upper
96	100		
70	20.5	16.2	24.4
95	9.2	6.9	10.3
97	6.3	0.0	0.0#

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



#2

Dichlorodifluoromethane

Concen: 1.03 ug/l

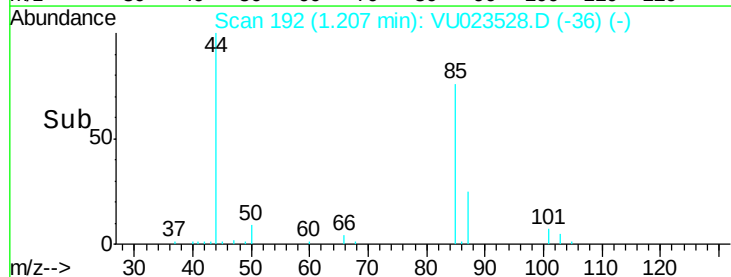
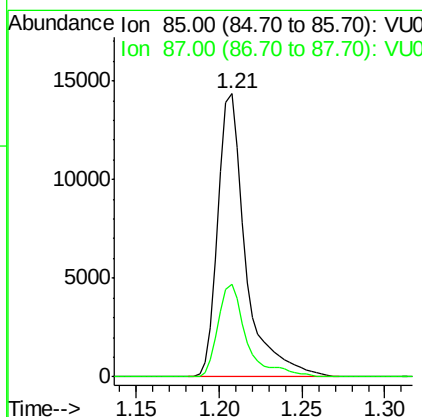
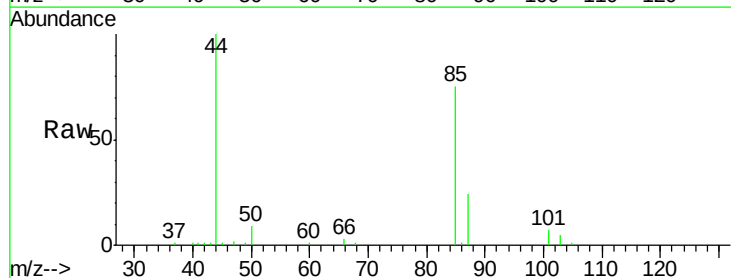
RT: 1.21 min Scan# 192

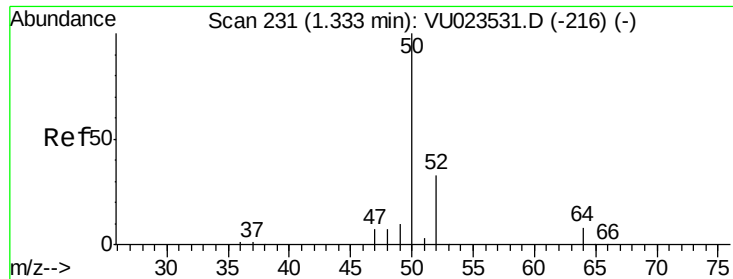
Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tgt Ion:	85	Resp:	16786
Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.2	48.5





#3

Chloromethane

Concen: 0.99 ug/l

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 20396

Ion Ratio Lower Upper

50 100

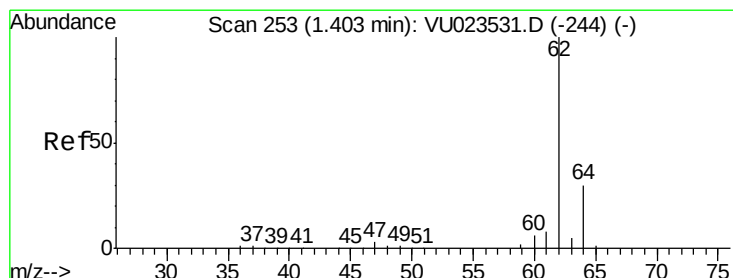
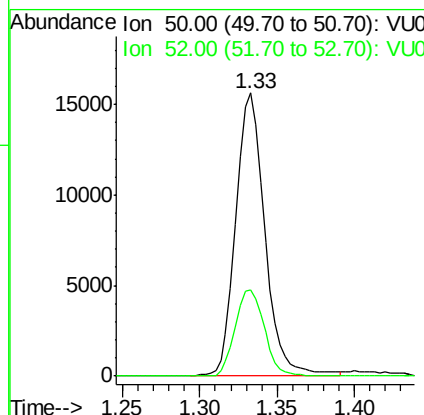
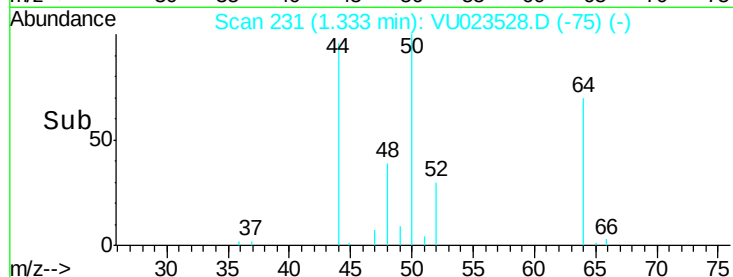
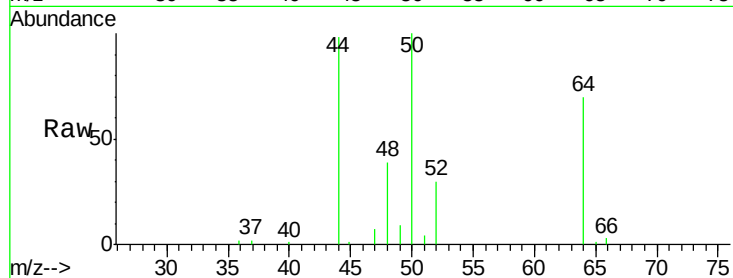
52 30.5 26.0 39.0

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#4

Vinyl Chloride

Concen: 1.01 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU023528.D

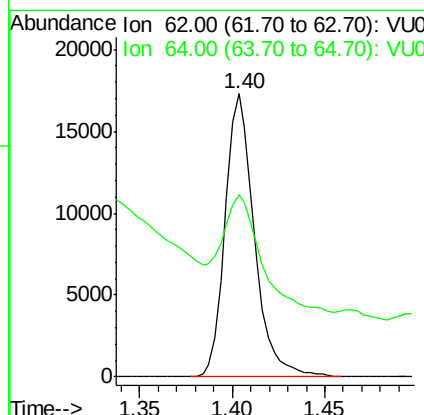
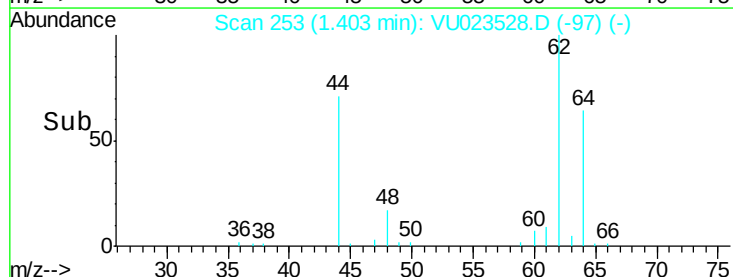
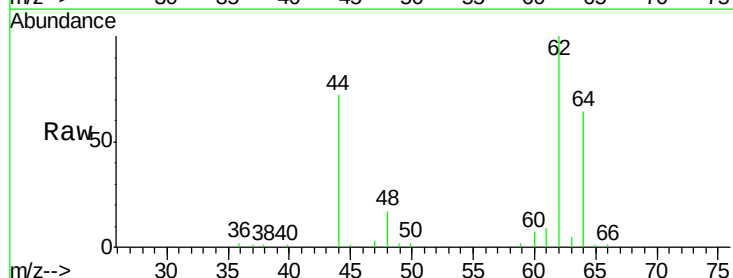
Acq: 30 Apr 2018 15:25

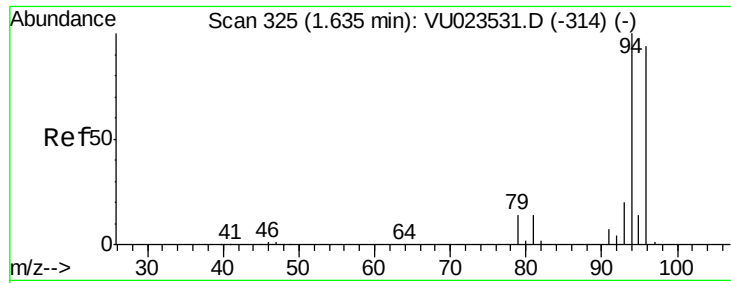
Tgt Ion: 62 Resp: 18937

Ion Ratio Lower Upper

62 100

64 41.1 25.8 38.8#





#5

Bromomethane

Concen: 0.84 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 94 Resp: 10224

Ion Ratio Lower Upper

94 100

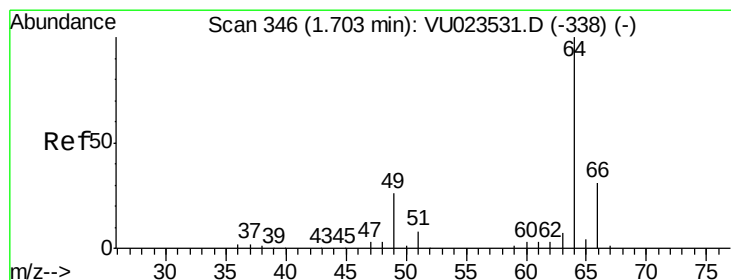
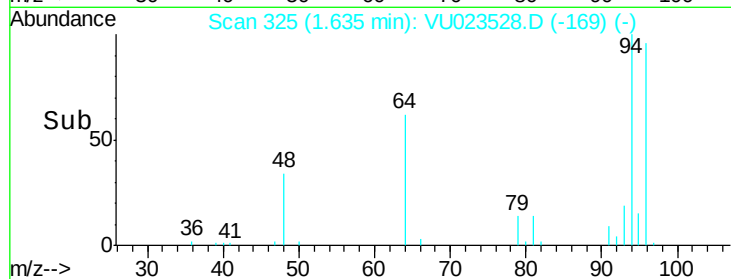
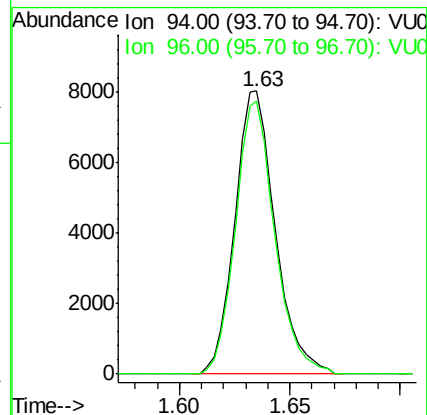
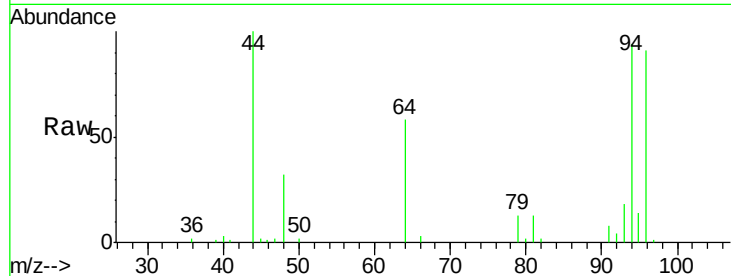
96 96.3 75.1 112.7

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#6

Chloroethane

Concen: 1.05 ug/l

RT: 1.70 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU023528.D

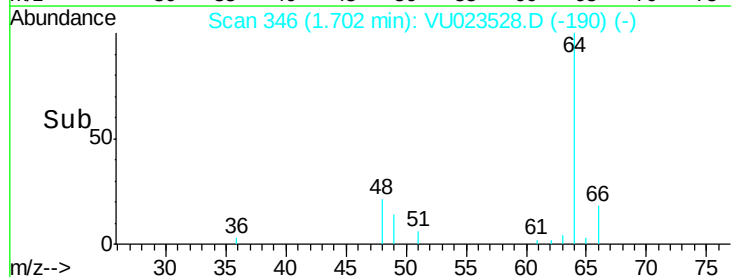
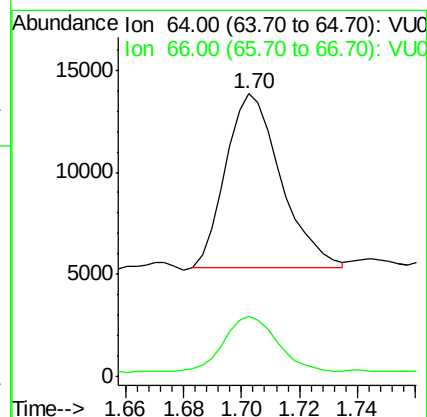
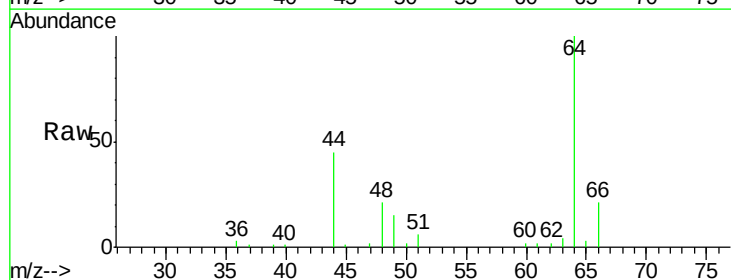
Acq: 30 Apr 2018 15:25

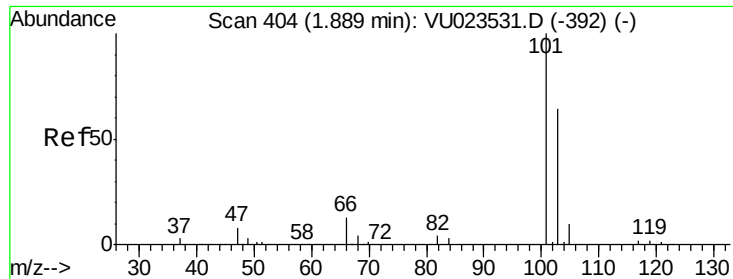
Tgt Ion: 64 Resp: 11328

Ion Ratio Lower Upper

64 100

66 31.1 24.9 37.3





#7

Trichlorofluoromethane

Concen: 1.03 ug/l

RT: 1.89 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:101 Resp: 21821

Ion Ratio Lower Upper

101 100

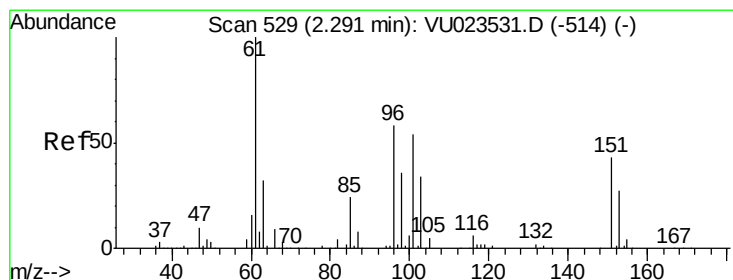
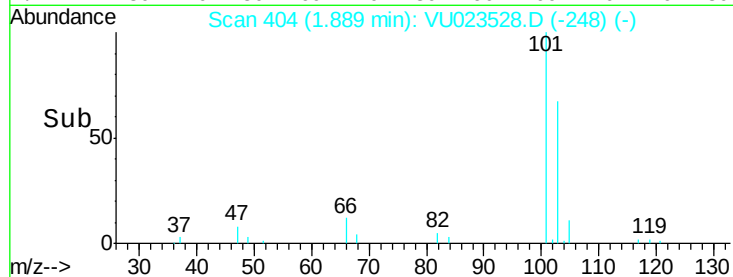
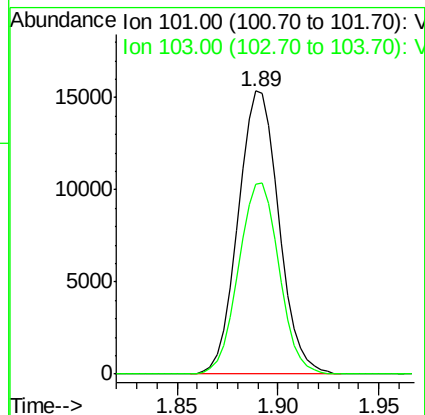
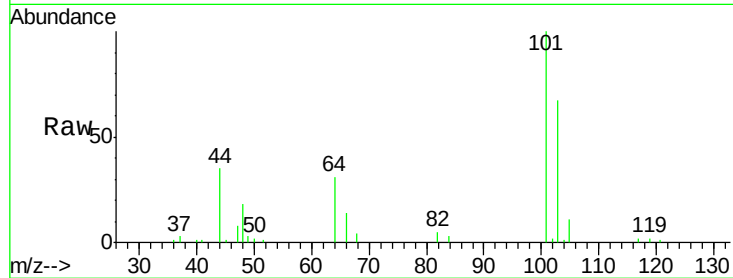
103 66.9 51.4 77.0

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.07 ug/l

RT: 2.29 min Scan# 530

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

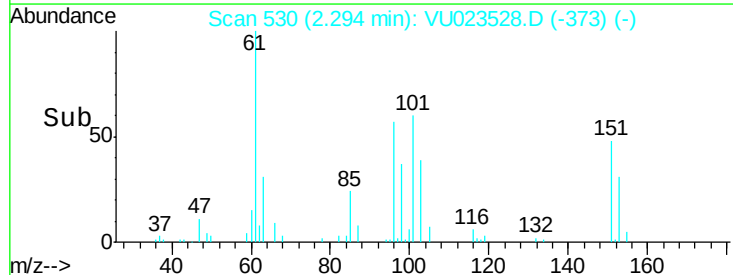
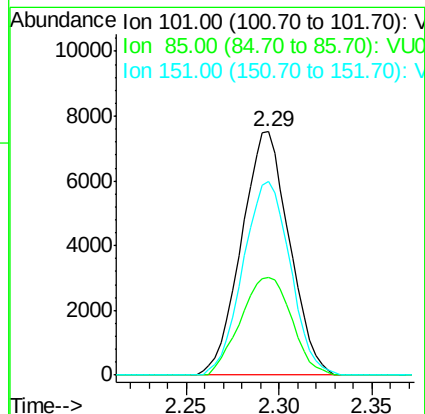
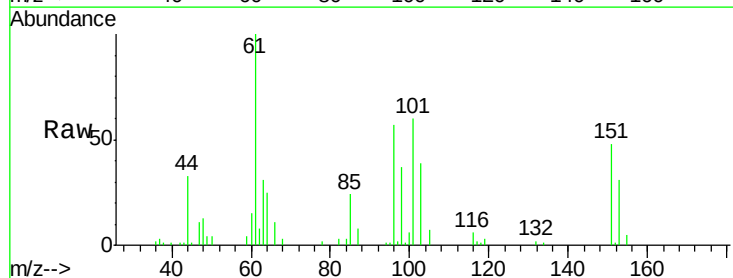
Tgt Ion:101 Resp: 13480

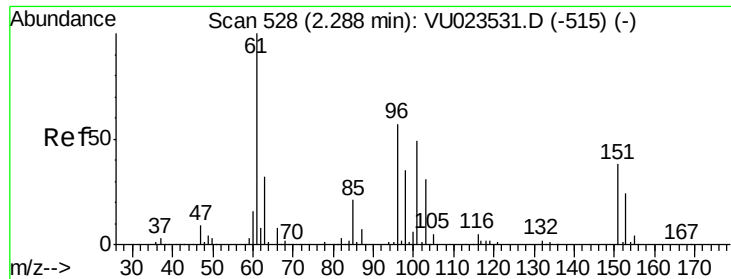
Ion Ratio Lower Upper

101 100

85 42.7 35.2 52.8

151 78.5 63.5 95.3





#9

1,1-Dichloroethene

Concen: 0.97 ug/l

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

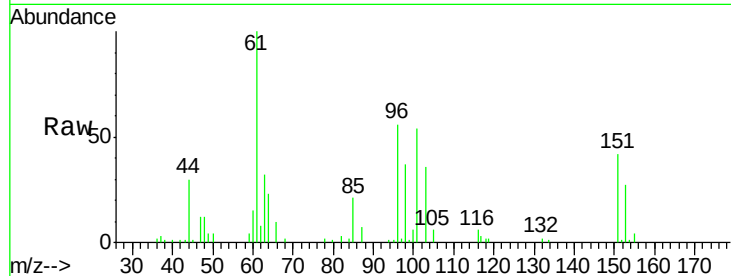
ClientSampleId :

VSTDIC001

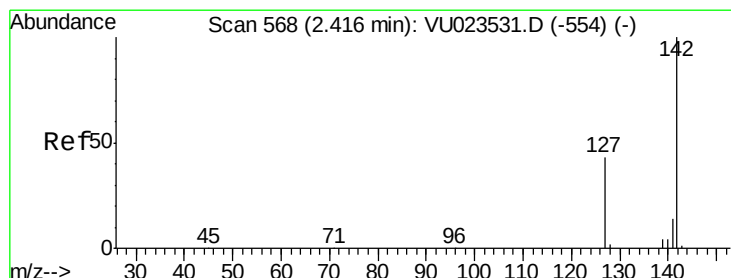
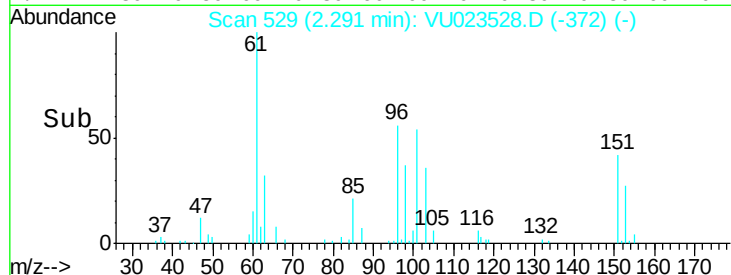
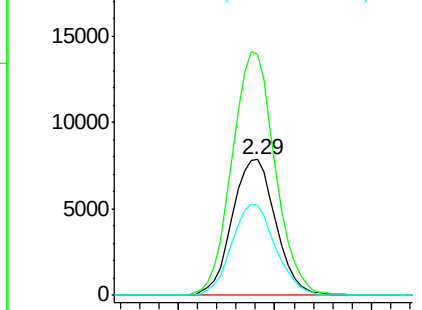
Tot Ion:	96	Resp:	12301
Ion Ratio	Lower	Upper	
96	100		
61	177.4	0.0	526.5
98	66.2	0.0	123.4

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



Abundance Ion 96.00 (95.70 to 96.70): VU023528.D (-372) (-)



#10

Iodomethane

Concen: 0.95 ug/l

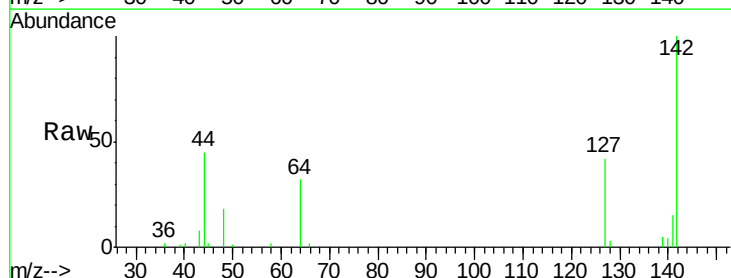
RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

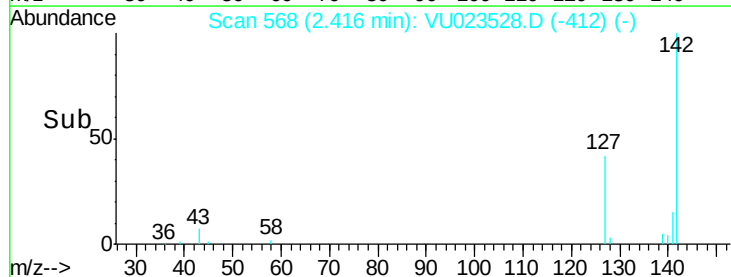
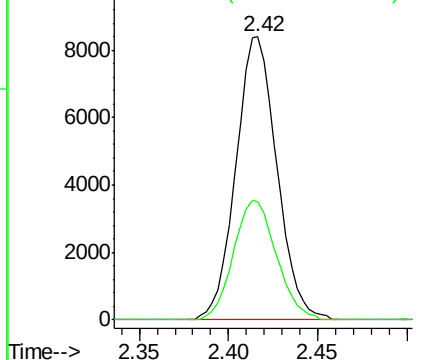
Lab File: VU023528.D

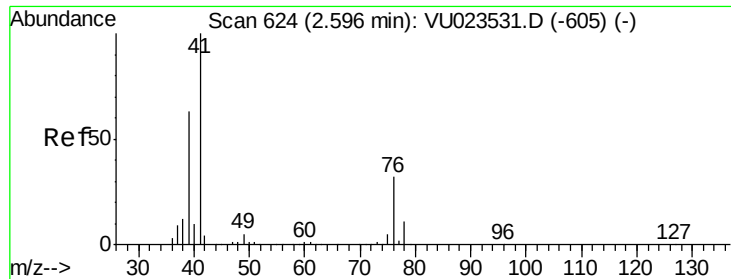
Acq: 30 Apr 2018 15:25

Tgt Ion:	142	Resp:	13504
Ion Ratio	Lower	Upper	
142	100		
127	44.0	34.5	51.7



Abundance Ion 142.00 (141.70 to 142.70): VU023528.D (-412) (-)





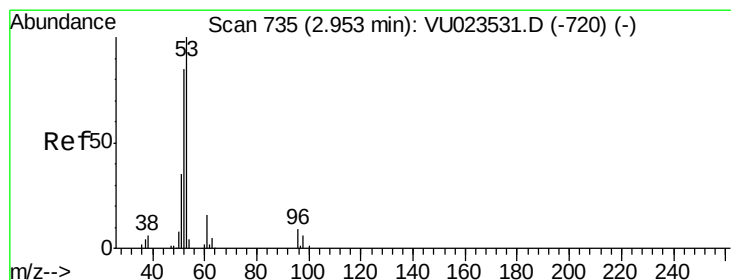
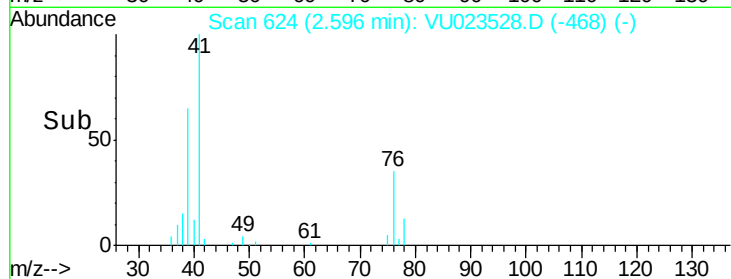
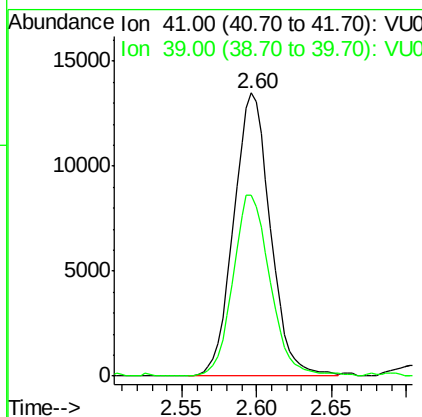
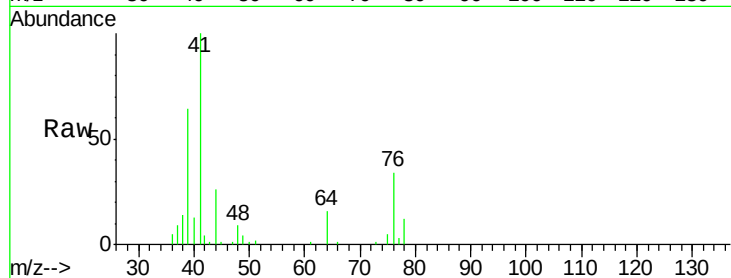
#11
Allvl Chloride
Concen: 1.14 ug/l
RT: 2.60 min Scan# 624
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
39	65.1	51.4	77.2

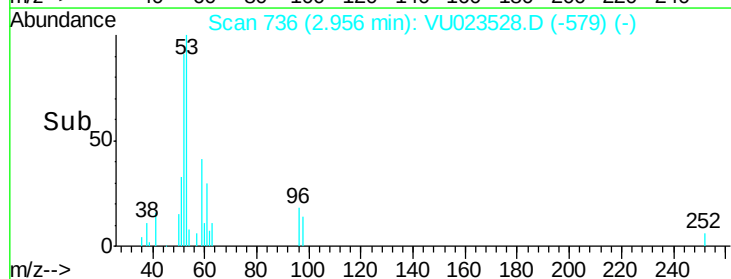
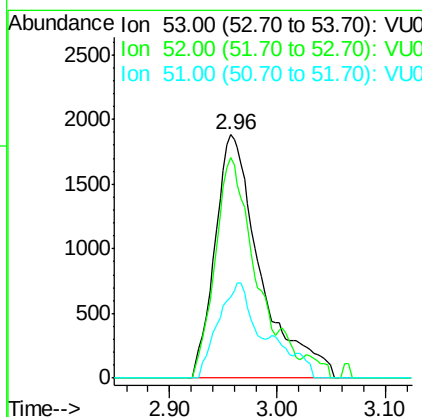
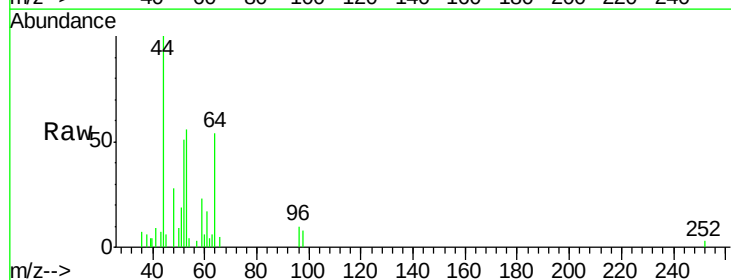
Manual Integrations
APPROVED

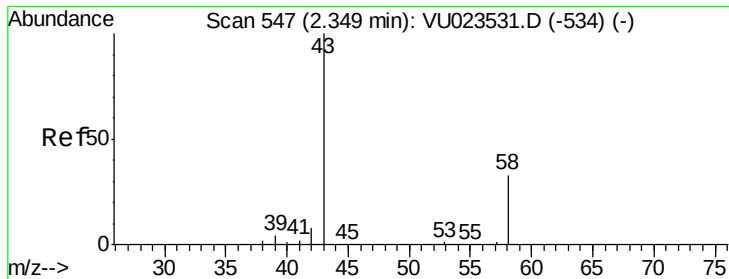
apatel
5/3/2018 4:39:03 PM



#12
Acrylonitrile
Concen: 1.91 ug/l
RT: 2.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
53	100		
52	75.6	65.1	97.7
51	30.5	30.2	45.4





#13

Acetone

Concen: 4.87 ug/l

RT: 2.36 min Scan# 549

Delta R.T. 0.01 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tot Ion: 43 Resp: 11123

Ion Ratio Lower Upper

43 100

58 30.3 26.0 39.0

Instrument :

MSVOA_U

ClientSampleId :

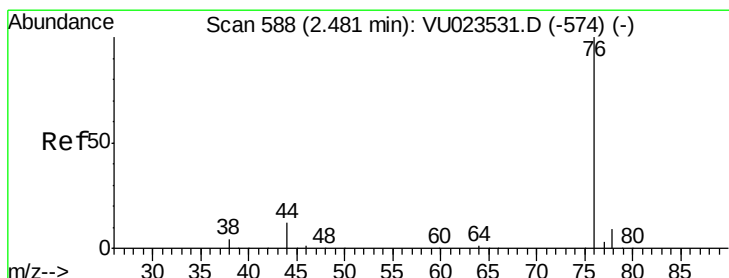
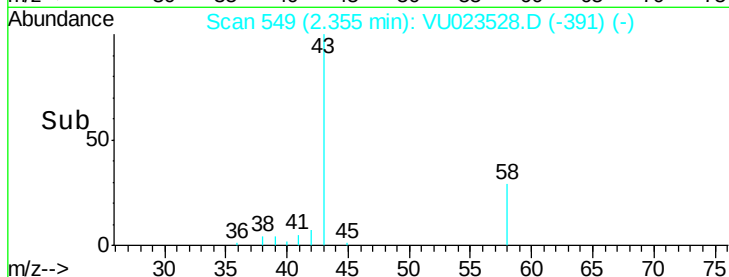
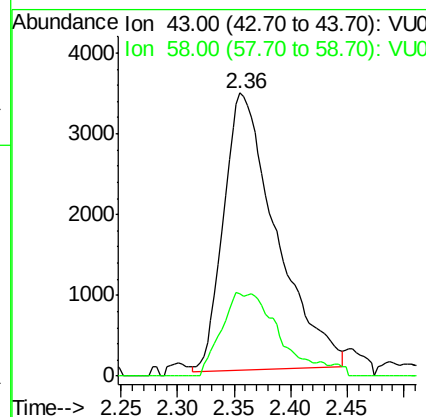
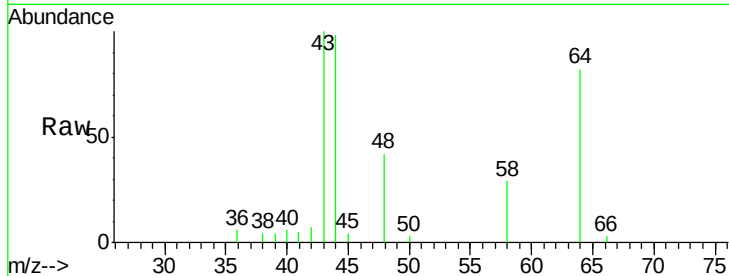
VSTDIC001

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#14

Carbon Disulfide

Concen: 1.03 ug/l

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU023528.D

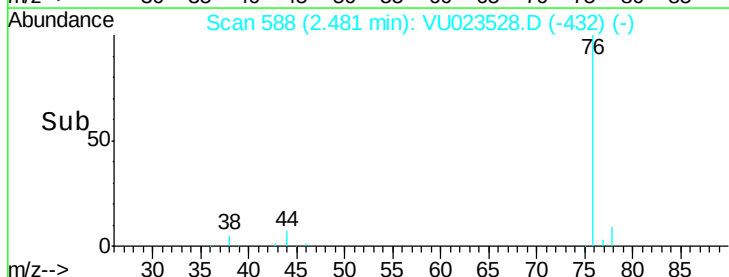
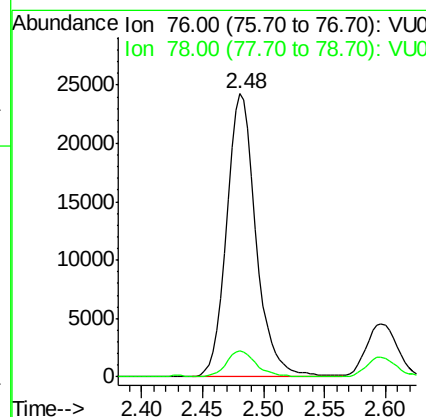
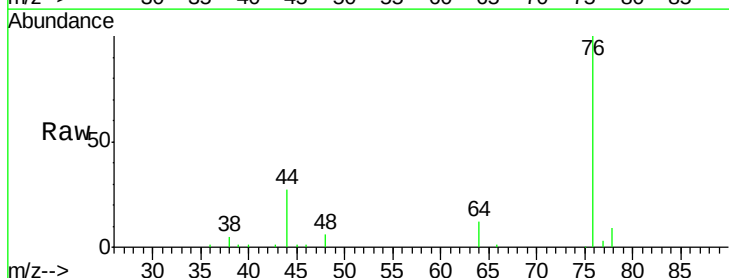
Acq: 30 Apr 2018 15:25

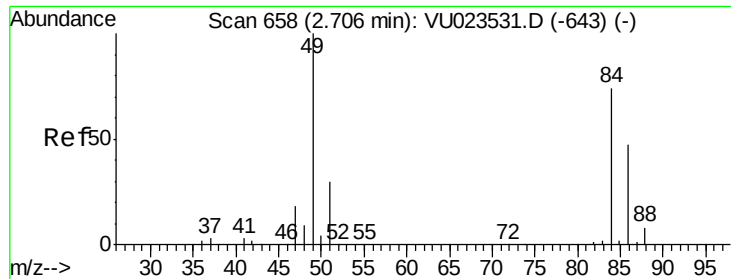
Tgt Ion: 76 Resp: 41123

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





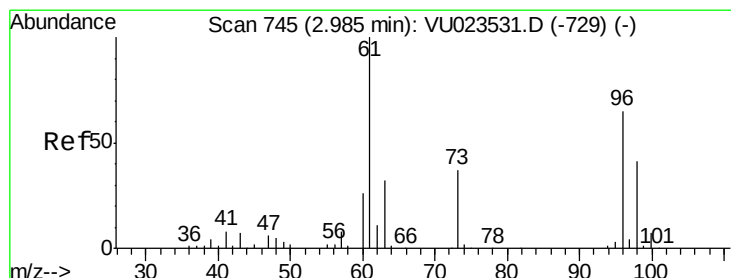
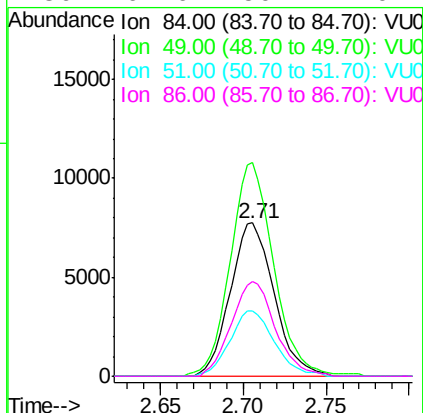
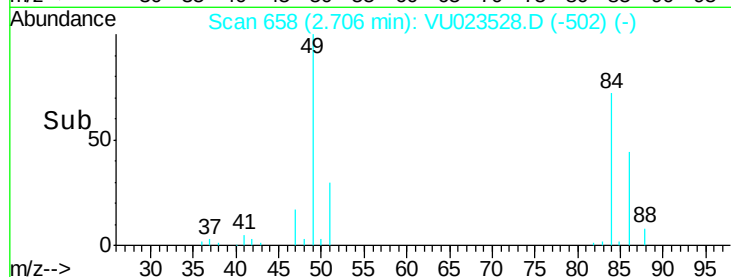
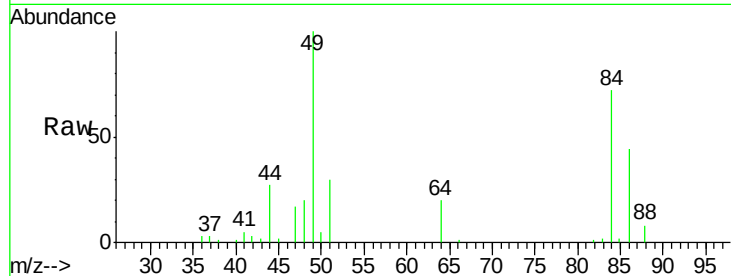
#15
Methvlene Chloride
Concen: 0.93 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion:	84	Resp:	14230
Ion	Ratio	Lower	Upper
84	100		
49	137.8	108.7	163.1
51	42.3	0.0	82.4
86	61.6	50.7	76.1

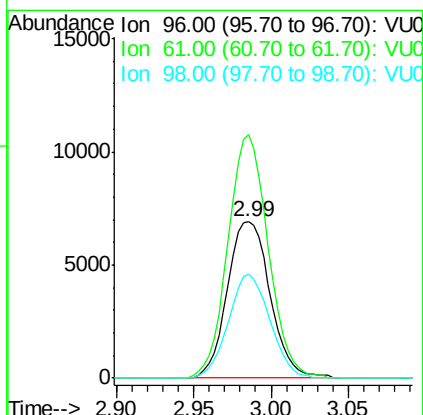
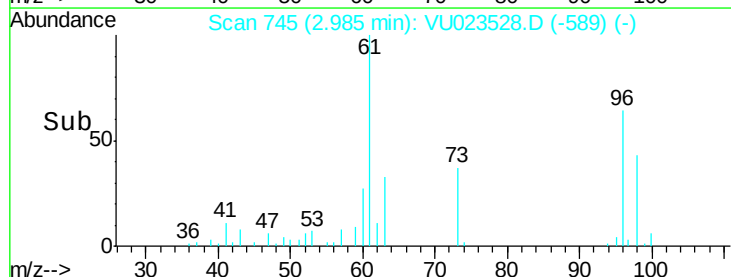
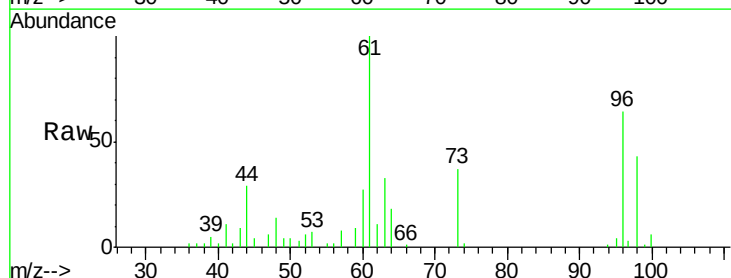
Manual Integrations
APPROVED

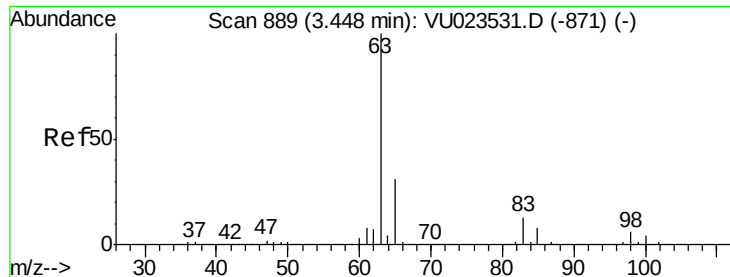
apatel
5/3/2018 4:39:03 PM



#16
trans-1,2-Dichloroethene
Concen: 0.97 ug/l
RT: 2.99 min Scan# 745
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion:	96	Resp:	13280
Ion	Ratio	Lower	Upper
96	100		
61	155.8	123.9	185.9
98	66.6	50.6	76.0





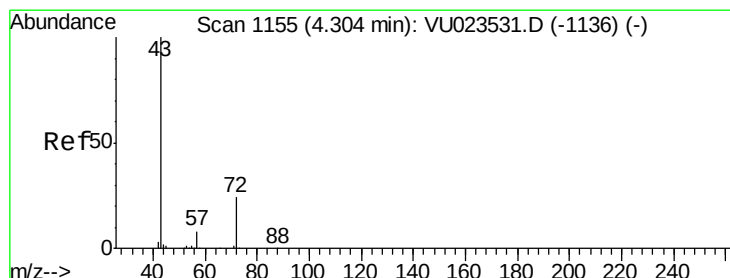
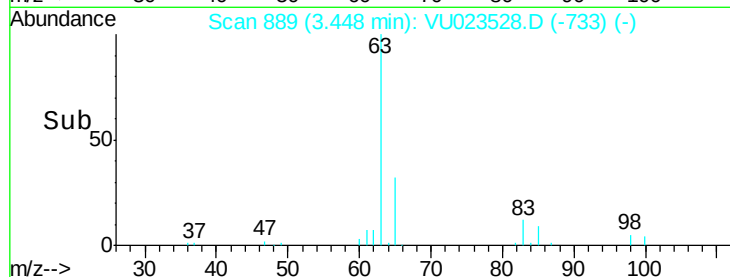
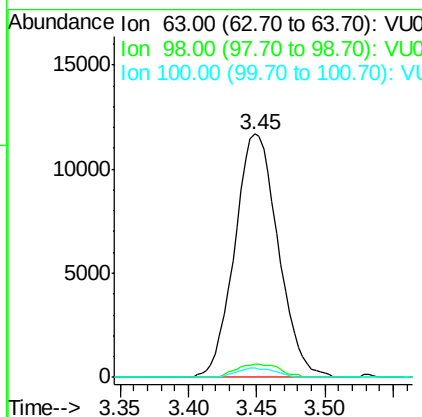
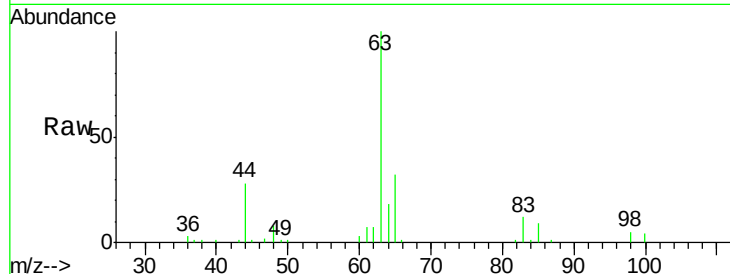
#17
 1,1-Dichloroethane
 Concen: 1.01 ug/l
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion:	63	Resp:	25874
Ion	Ratio	Lower	Upper
63	100		
98	5.4	2.9	8.8
100	3.8	2.0	5.8

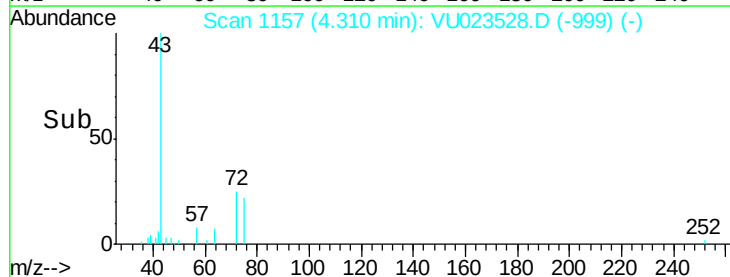
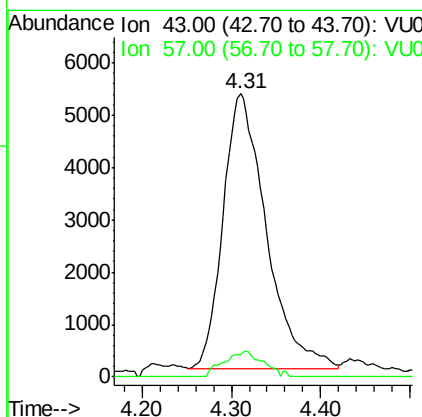
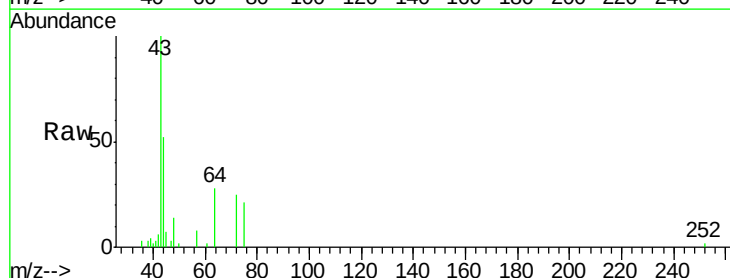
Manual Integrations
 APPROVED

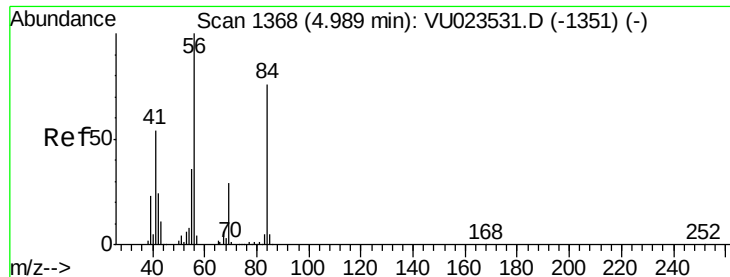
apatel
 5/3/2018 4:39:03 PM



#18
 2-Butanone
 Concen: 5.03 ug/l
 RT: 4.31 min Scan# 1157
 Delta R.T. 0.01 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion:	43	Resp:	17570
Ion	Ratio	Lower	Upper
43	100		
57	8.2	0.0	15.8





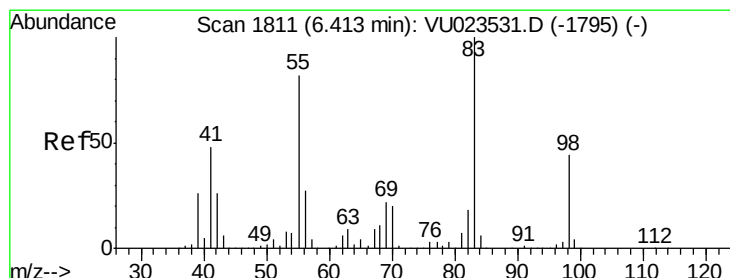
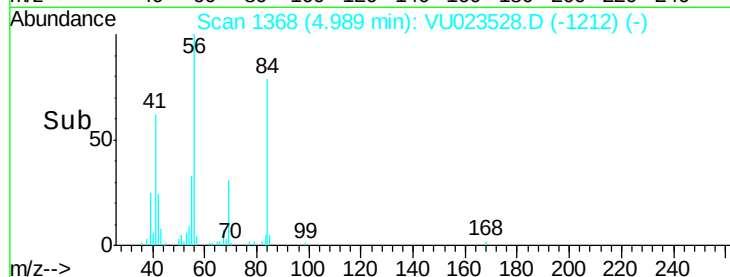
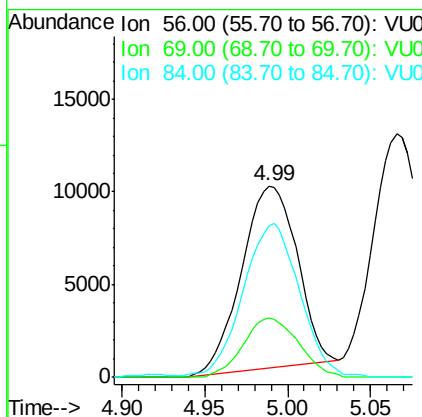
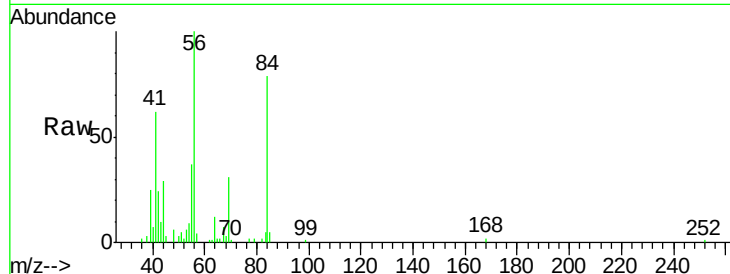
#19
Cyclohexane
Concen: 1.24 ug/l
RT: 4.99 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.5	26.0	39.0
84	84.8	68.3	102.5

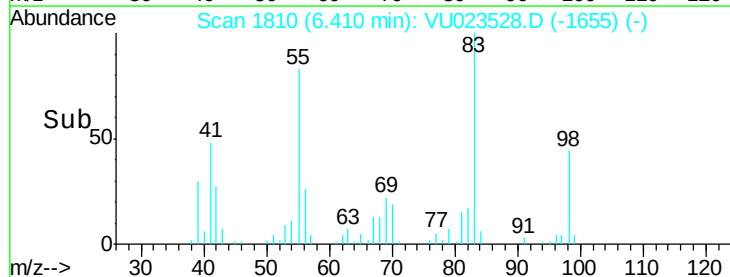
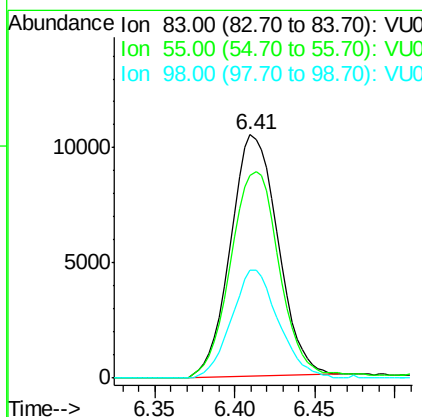
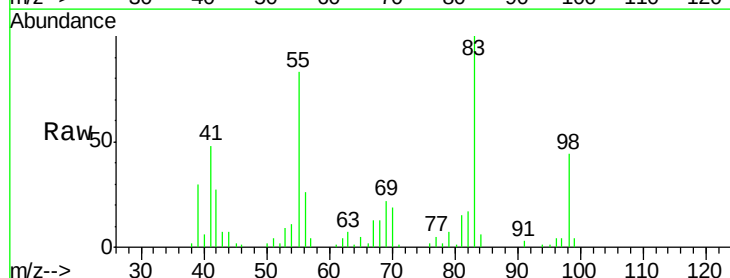
Manual Integrations
APPROVED

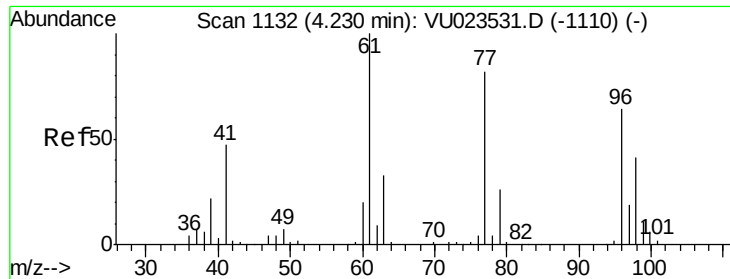
apatel
5/3/2018 4:39:03 PM



#20
Methylcyclohexane
Concen: 1.00 ug/l
RT: 6.41 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
83	100		
55	86.4	66.4	99.6
98	44.3	35.4	53.2





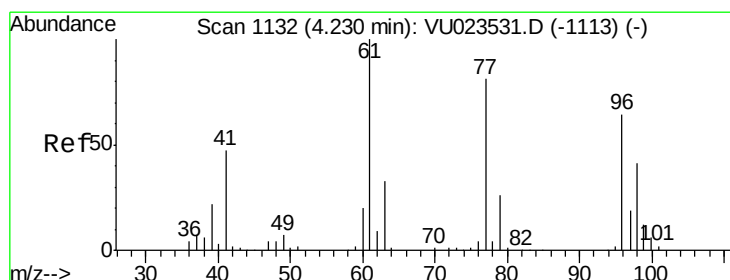
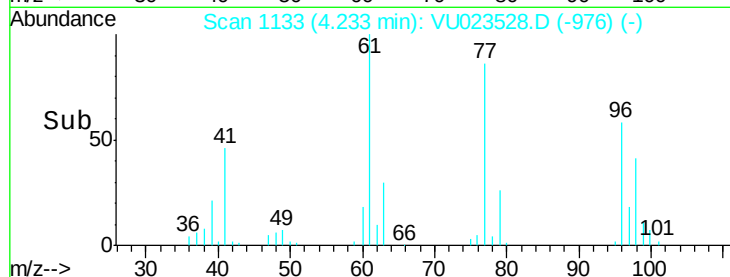
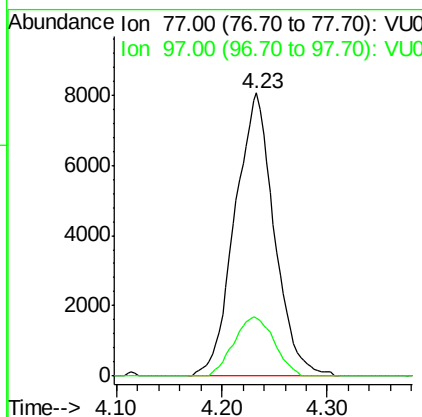
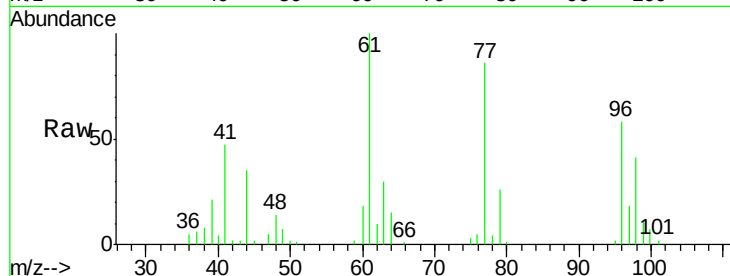
#21
 2,2-Dichloropropane
 Concen: 1.12 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion: 77 Resp: 20898
 Ion Ratio Lower Upper
 77 100
 97 21.3 17.9 26.9

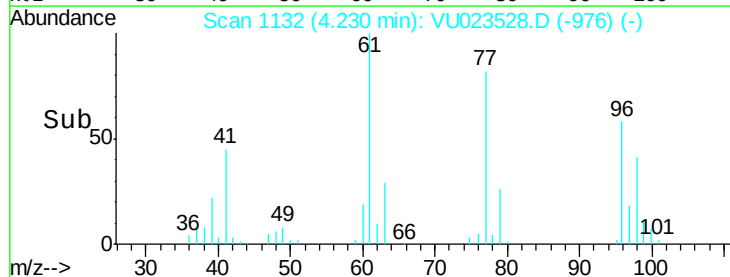
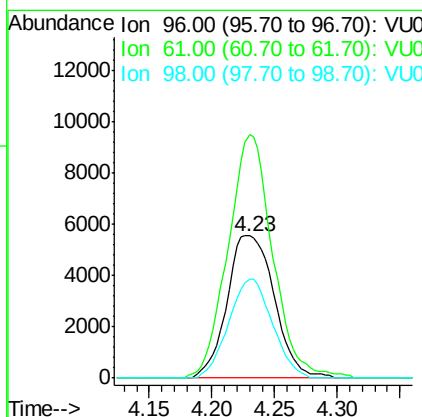
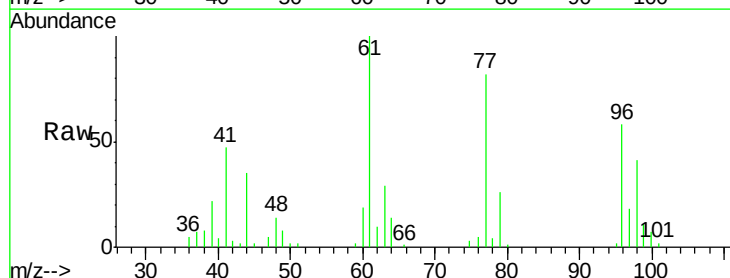
Manual Integrations
 APPROVED

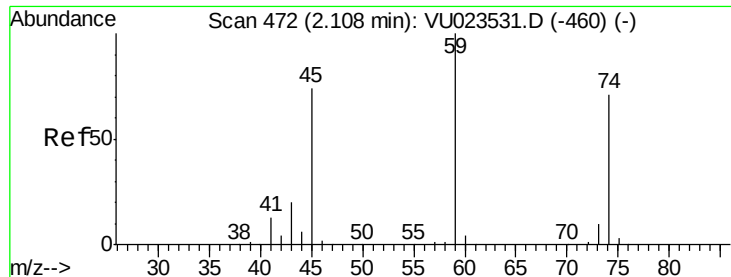
apatel
 5/3/2018 4:39:03 PM



#22
 cis-1,2-Dichloroethene
 Concen: 0.96 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion: 96 Resp: 14598
 Ion Ratio Lower Upper
 96 100
 61 160.7 0.0 400.5
 98 64.1 32.2 96.6





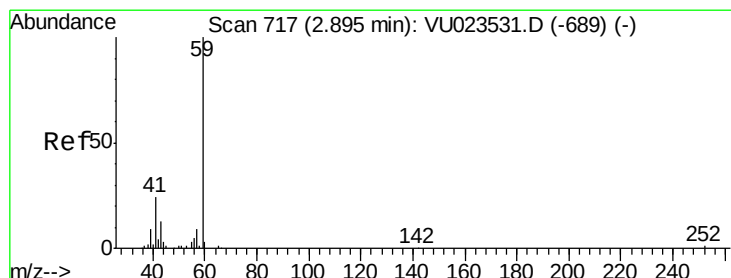
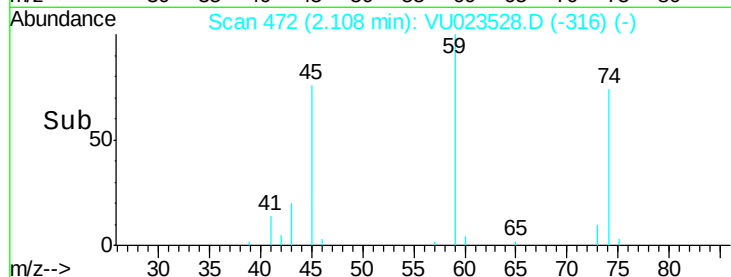
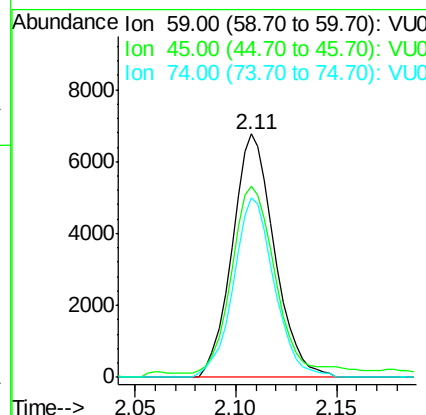
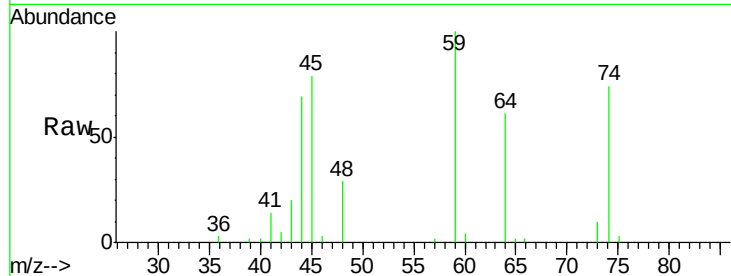
#23
Diethyl Ether
Concen: 0.96 ug/l
RT: 2.11 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
59	100		
45	79.8	60.0	90.0
74	71.5	56.5	84.7

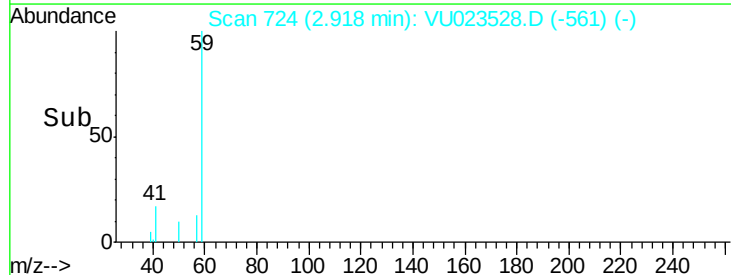
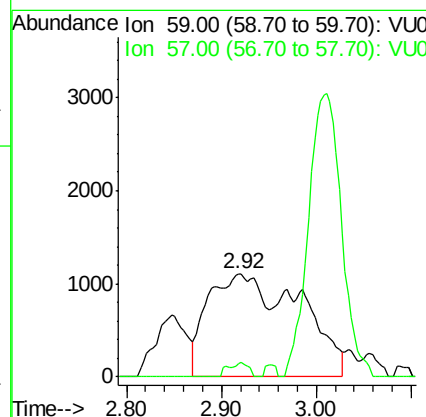
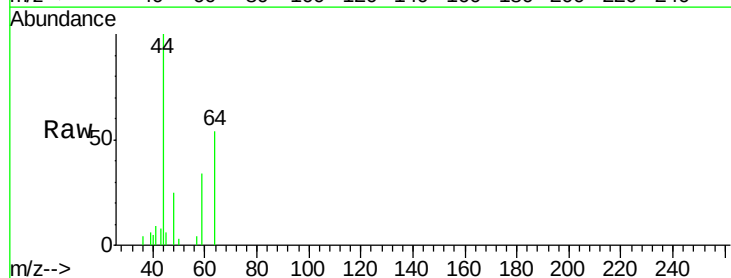
Manual Integrations
APPROVED

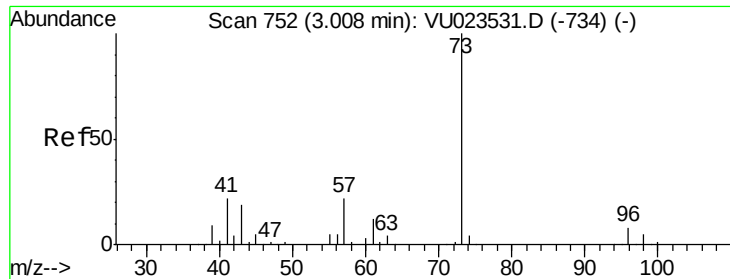
apatel
5/3/2018 4:39:03 PM



#24
tert-Butyl Alcohol
Concen: 7.44 ug/l m
RT: 2.92 min Scan# 724
Delta R.T. 0.02 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	3.4	5.2#





#25

Methvl tert-Butvl Ether

Concen: 0.98 ug/l

RT: 3.01 min Scan# 752

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 73 Resp: 31424

Ion Ratio Lower Upper

73 100

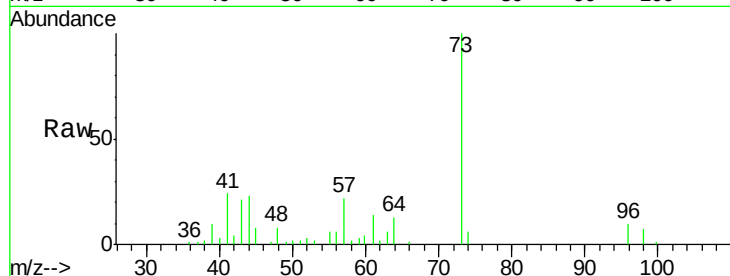
43 22.6 16.2 24.2

Manual Integrations

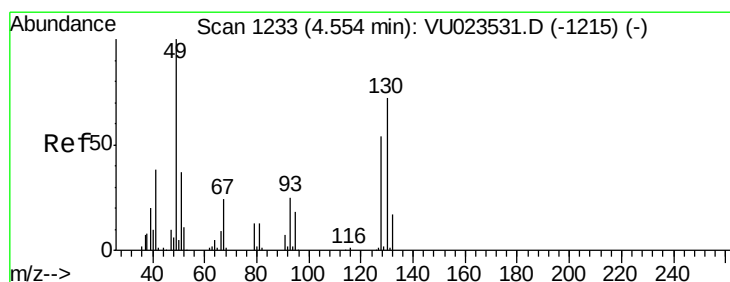
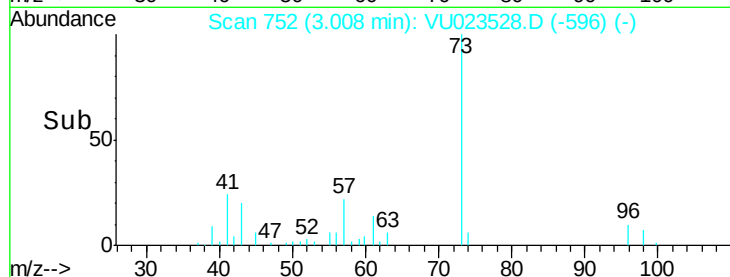
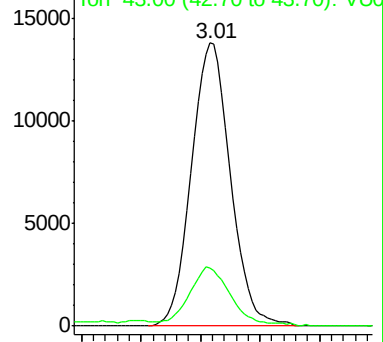
APPROVED

apatel

5/3/2018 4:39:03 PM



Abundance Ion 73.00 (72.70 to 73.70): VU023528.D (-596) (-)



#26

Bromochloromethane

Concen: 0.86 ug/l

RT: 4.55 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

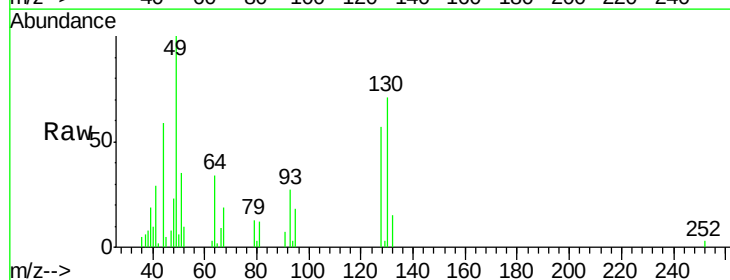
Tgt Ion:128 Resp: 5777

Ion Ratio Lower Upper

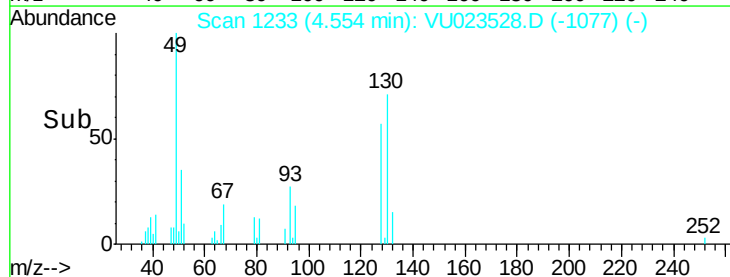
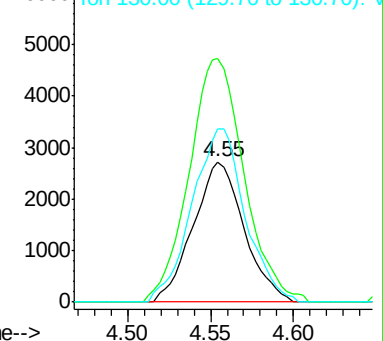
128 100

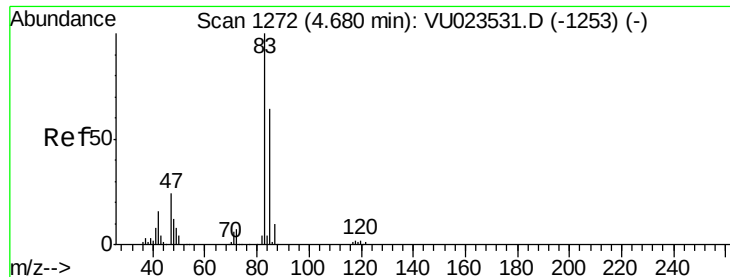
49 188.6 0.0 375.2

130 129.8 105.8 158.6



Abundance Ion 128.00 (127.70 to 128.70): VU023528.D (-1077) (-)





#27

Chloroform

Concen: 0.98 ug/l

RT: 4.68 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 25015

Ion Ratio Lower Upper

83 100

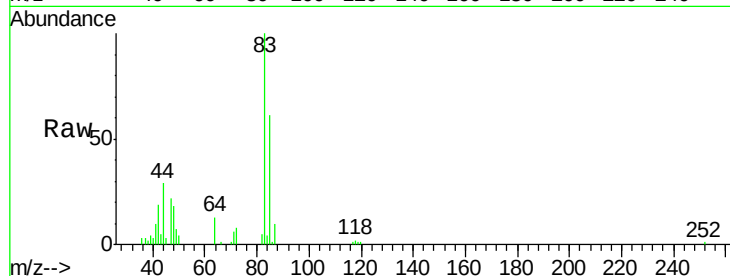
85 60.8 0.0 128.4

Manual Integrations

APPROVED

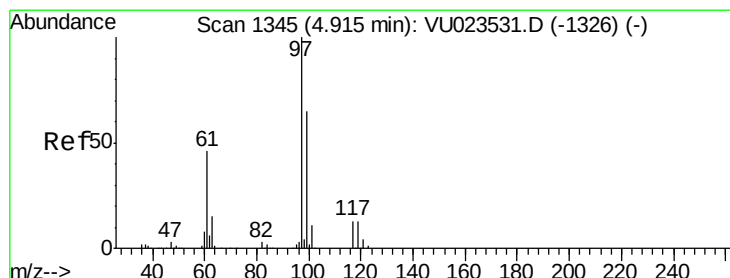
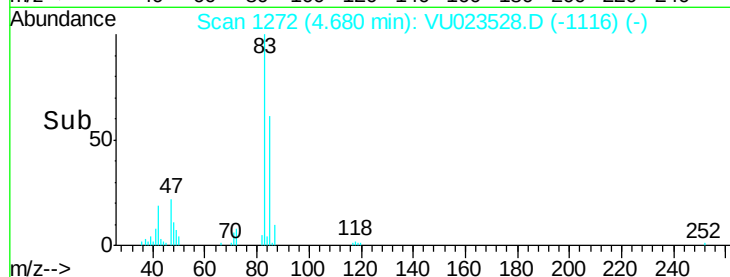
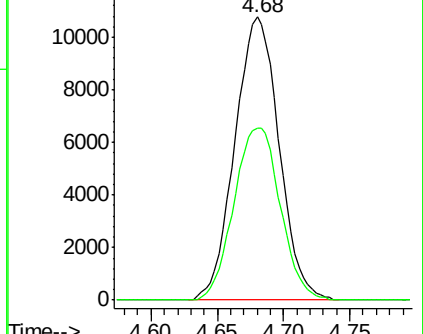
apatel

5/3/2018 4:39:03 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: 1.01 ug/l

RT: 4.91 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

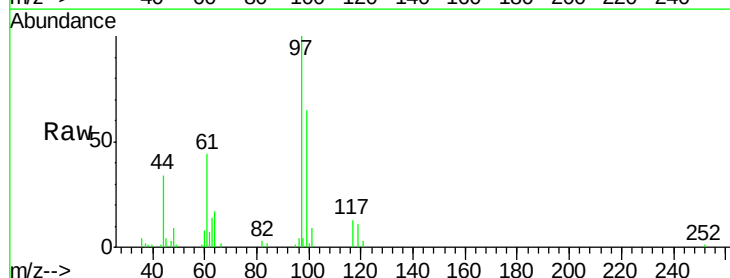
Tgt Ion: 97 Resp: 19787

Ion Ratio Lower Upper

97 100

99 64.7 32.3 96.9

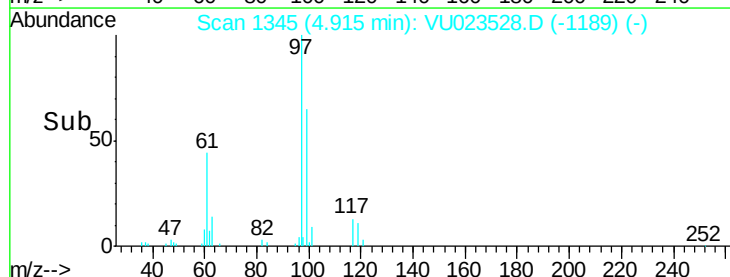
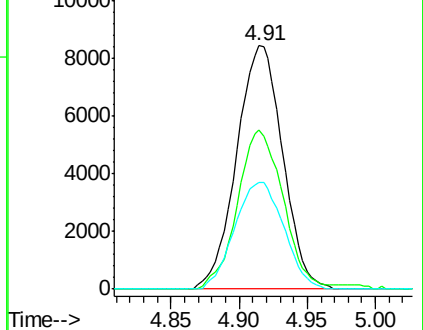
61 46.6 23.2 69.5

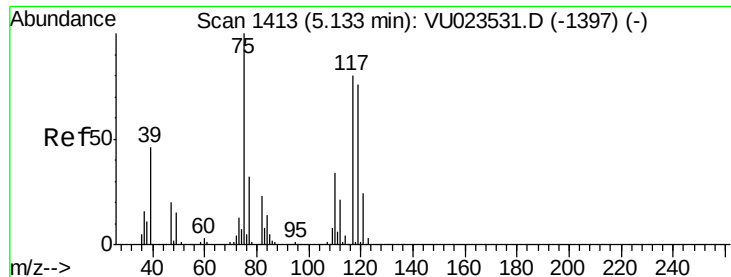


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#29

1,1-Dichloropropene

Concen: 1.02 ug/l

RT: 5.13 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

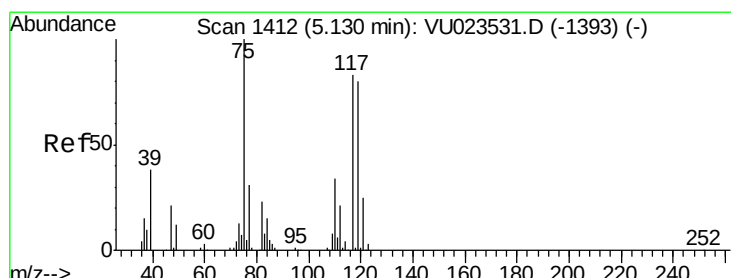
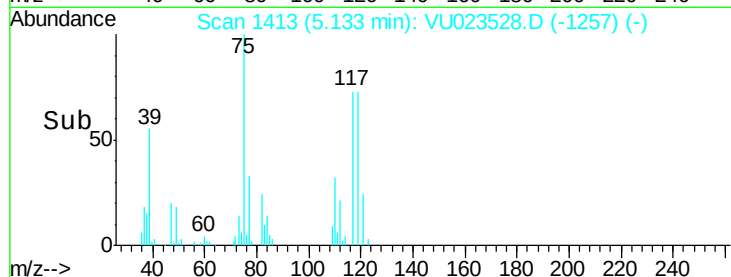
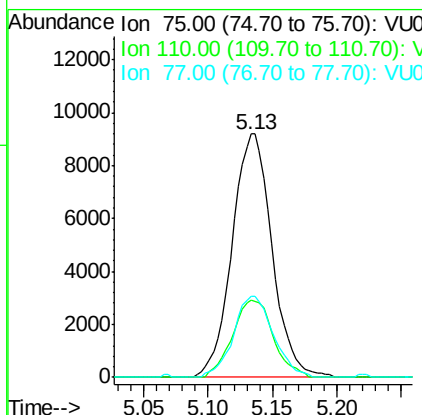
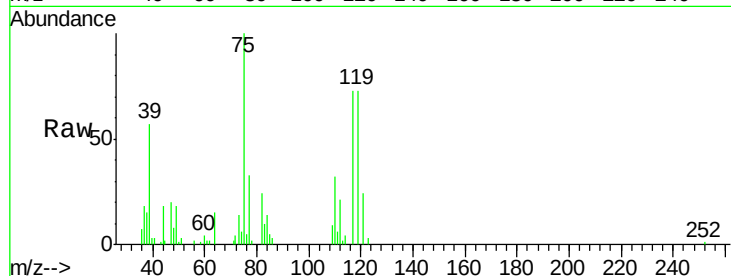
ClientSampleId :

VSTDIC001

Tot Ion:	75	Resp:	19794
Ion	Ratio	Lower	Upper
75	100		
110	32.3	16.9	50.7
77	33.3	24.8	37.2

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



#30

Carbon Tetrachloride

Concen: 0.98 ug/l

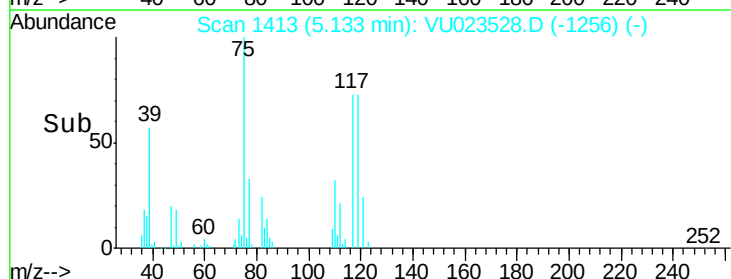
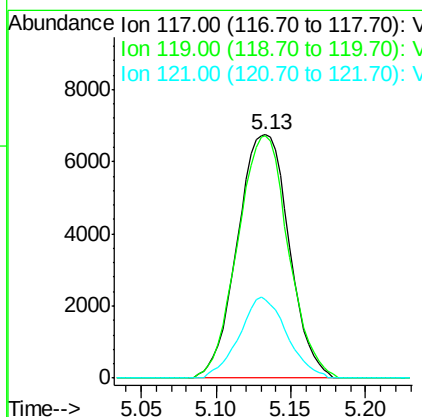
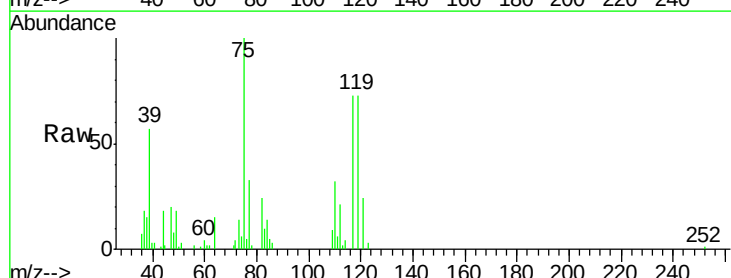
RT: 5.13 min Scan# 1413

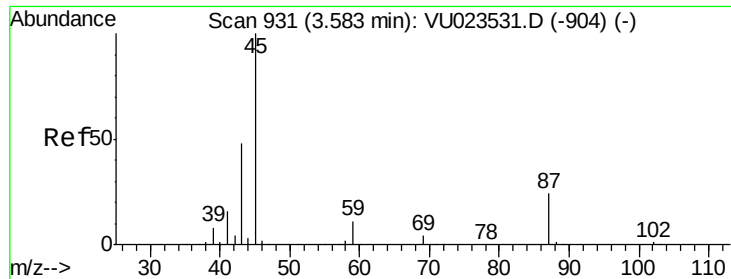
Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tgt Ion:	117	Resp:	16160
Ion	Ratio	Lower	Upper
117	100		
119	99.6	77.3	115.9
121	32.1	24.5	36.7





#31

Isopropyl Ether

Concen: 1.10 ug/l

RT: 3.58 min Scan# 931

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 42896

Ion Ratio Lower Upper

45 100

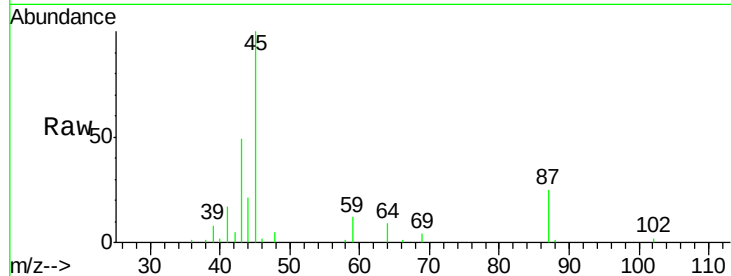
43 49.8 24.0 72.0

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

3.58

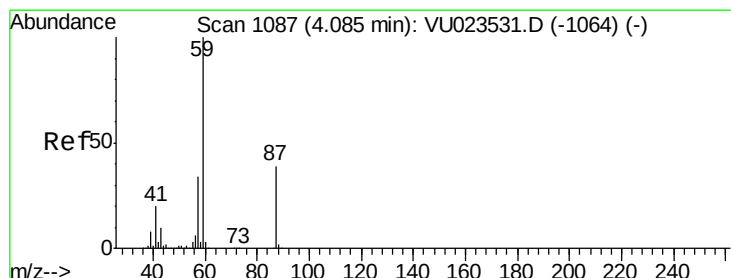
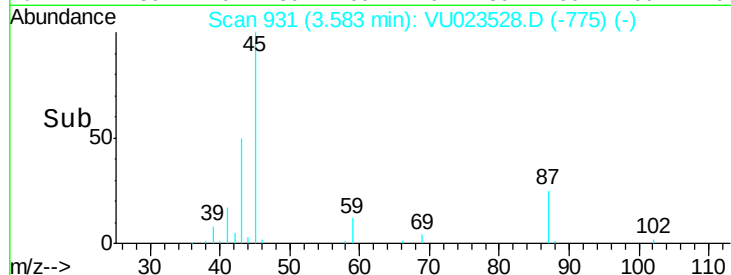
15000

10000

5000

0

Time-->



#32

Ethyl-t-butyl ether

Concen: 1.07 ug/l

RT: 4.09 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VU023528.D

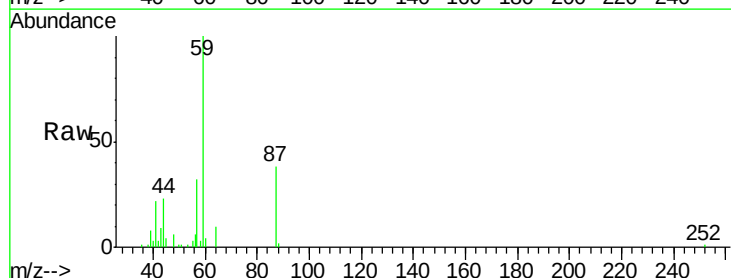
Acq: 30 Apr 2018 15:25

Tgt Ion: 59 Resp: 37545

Ion Ratio Lower Upper

59 100

87 38.9 31.0 46.6



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

4.09

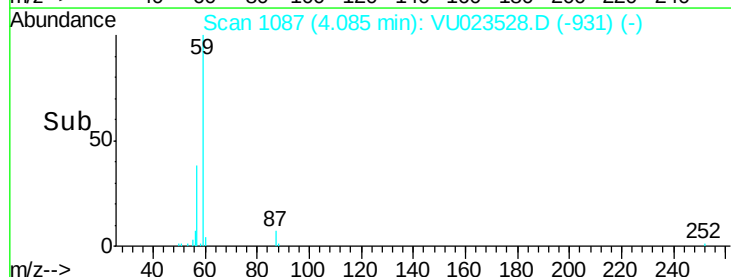
15000

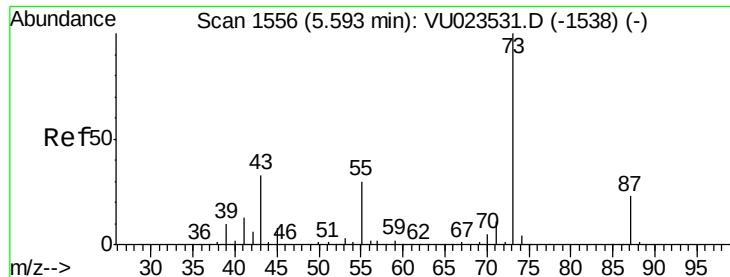
10000

5000

0

Time-->





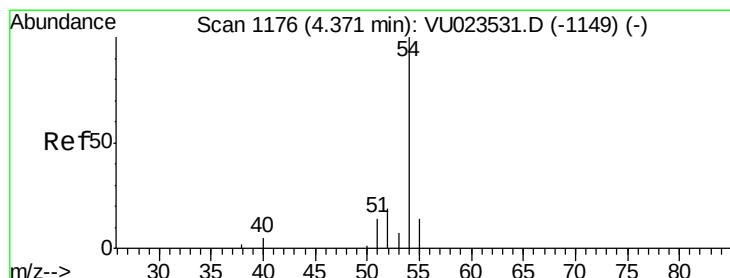
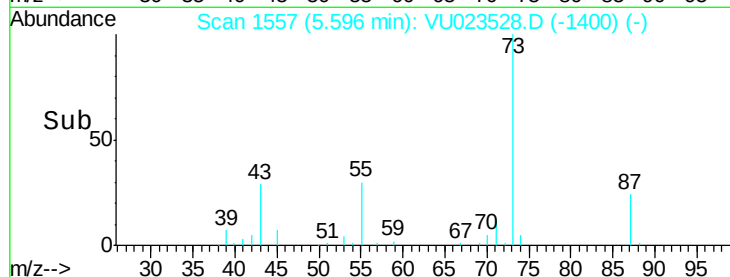
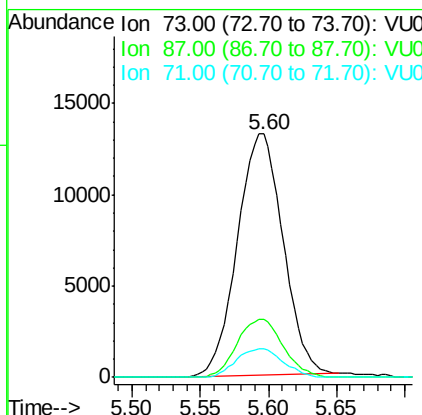
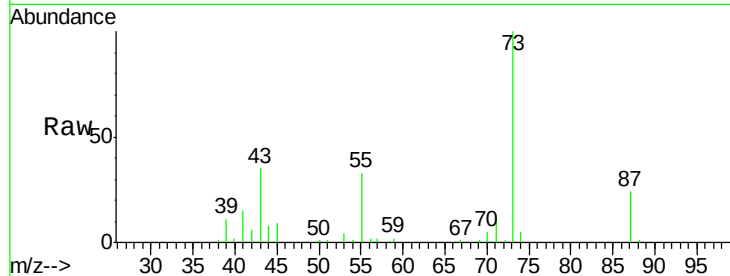
#33
Tert-Butyl methyl ether
Concen: 1.01 ug/l
RT: 5.60 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
73	100		
87	24.1	18.6	28.0
71	12.1	9.3	13.9

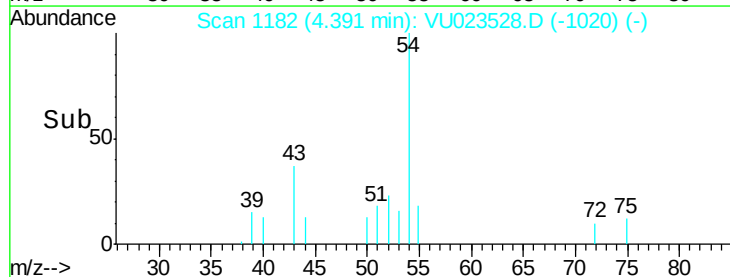
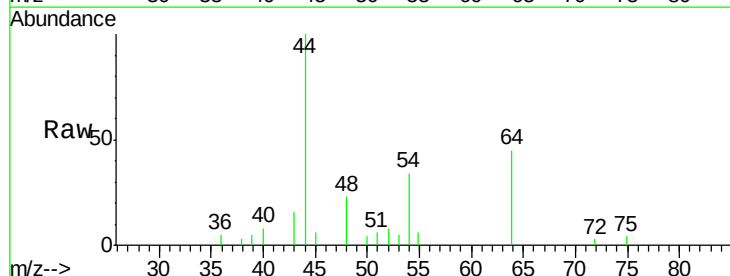
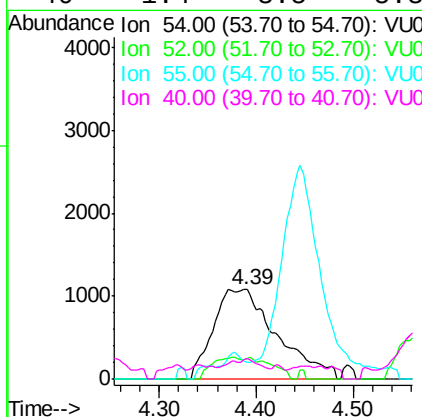
Manual Integrations
APPROVED

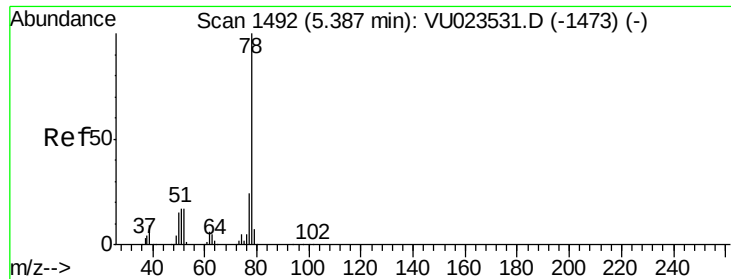
apatel
5/3/2018 4:39:03 PM



#34
Propionitrile
Concen: 4.63 ug/l m
RT: 4.39 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
54	100		
52	10.9	13.7	20.5#
55	8.0	10.2	15.2#
40	1.4	3.5	5.3#





#35

Benzene

Concen: 0.92 ug/l

RT: 5.39 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 78 Resp: 53760

Ion Ratio Lower Upper

78 100

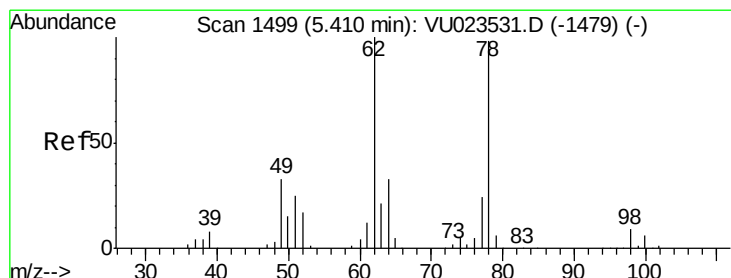
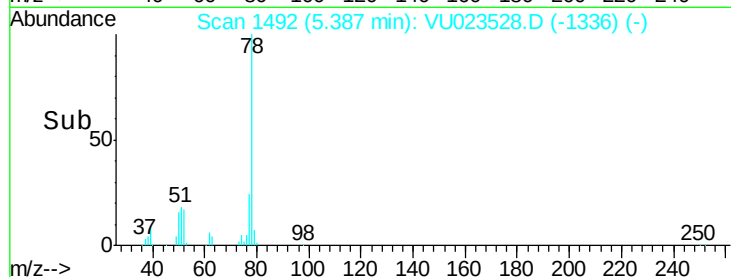
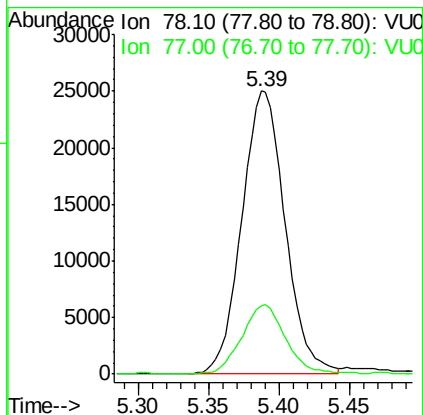
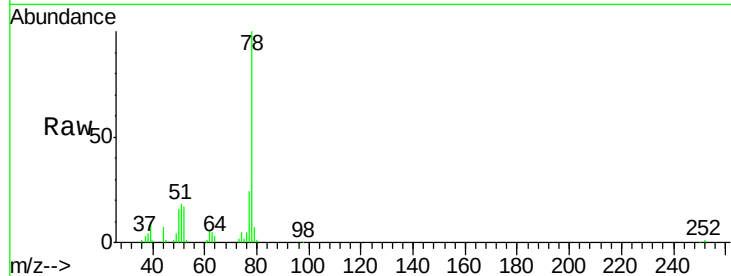
77 23.9 19.1 28.7

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#36

1,2-Dichloroethane

Concen: 1.05 ug/l

RT: 5.41 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VU023528.D

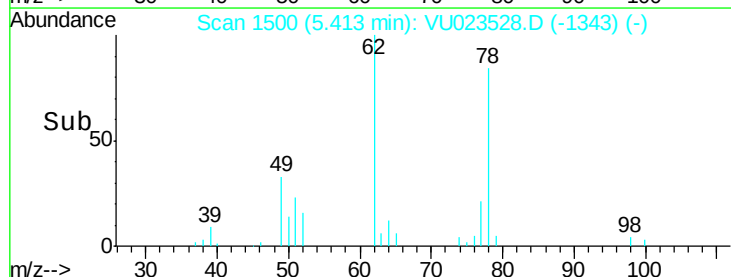
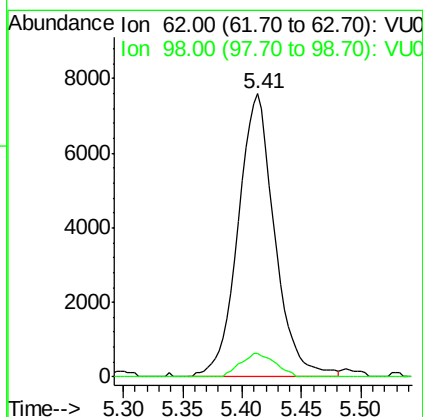
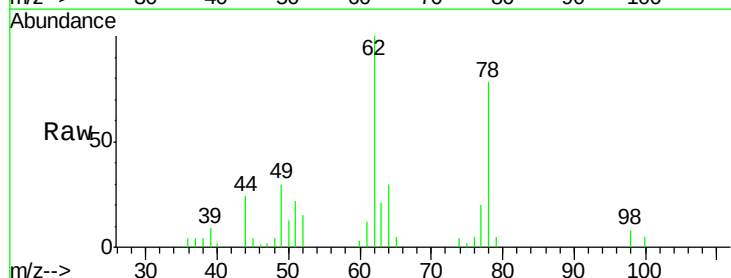
Acq: 30 Apr 2018 15:25

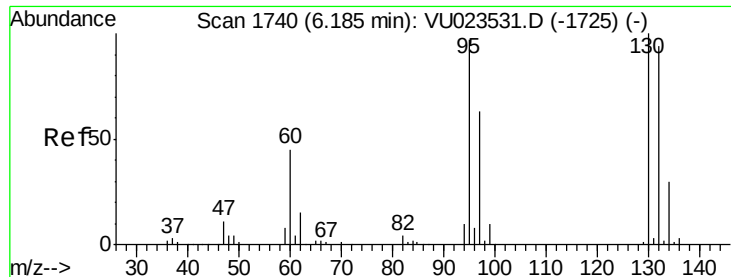
Tgt Ion: 62 Resp: 16214

Ion Ratio Lower Upper

62 100

98 7.8 7.2 10.8





#37

Trichloroethene

Concen: 0.99 ug/l

RT: 6.18 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:130 Resp: 15444

Ion Ratio Lower Upper

130 100

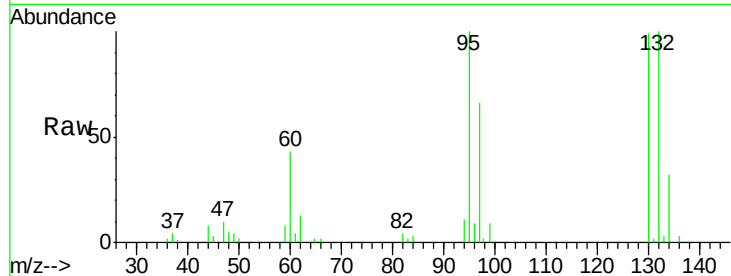
95 100.9 77.9 116.9

Manual Integrations

APPROVED

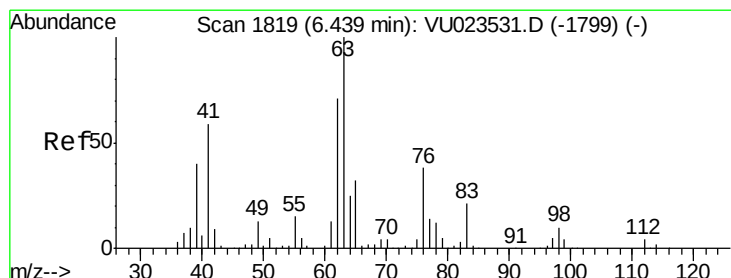
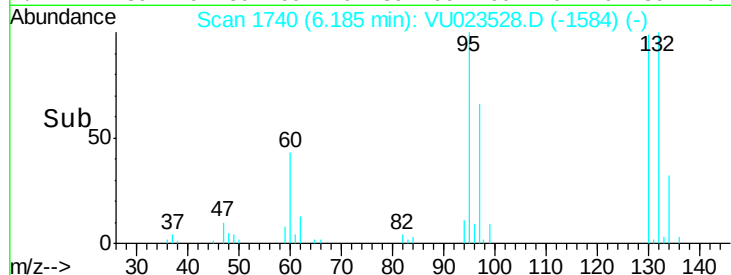
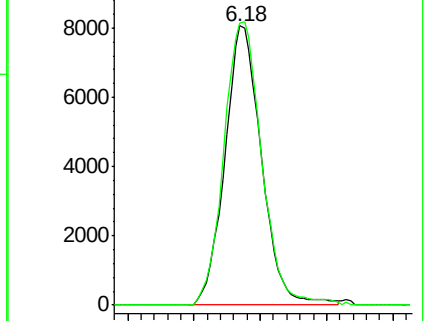
apatel

5/3/2018 4:39:03 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: 1.05 ug/l

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU023528.D

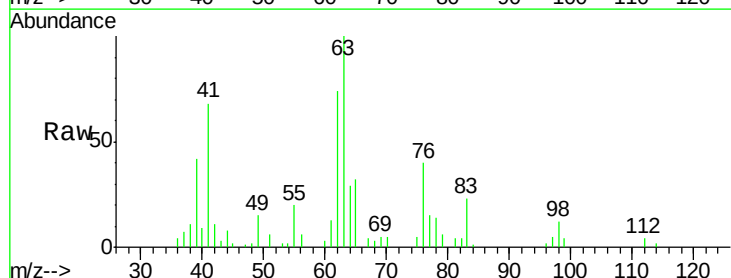
Acq: 30 Apr 2018 15:25

Tgt Ion: 63 Resp: 15649

Ion Ratio Lower Upper

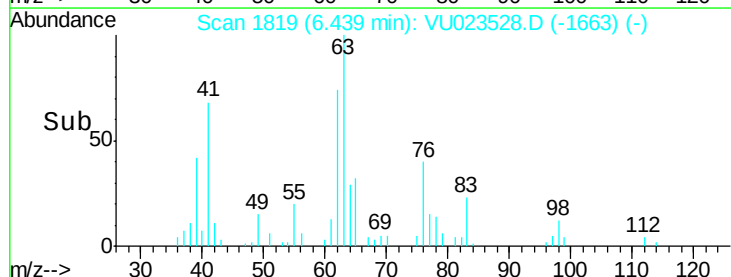
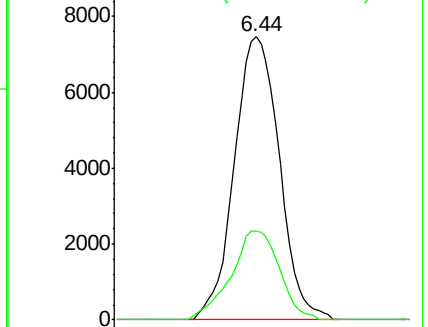
63 100

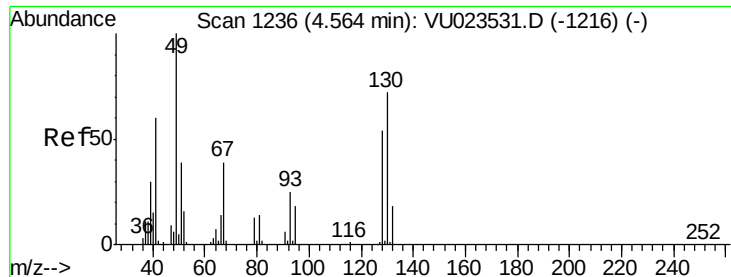
65 31.6 25.8 38.8



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0





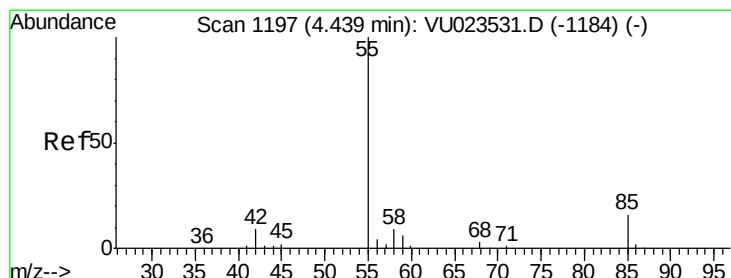
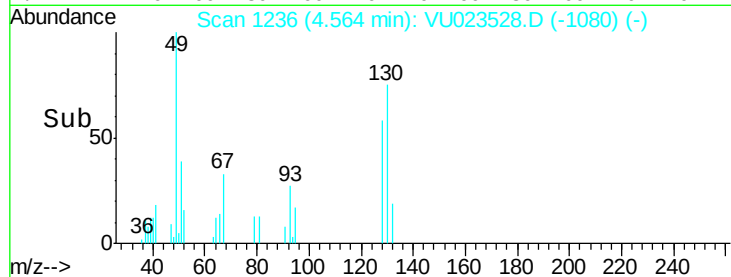
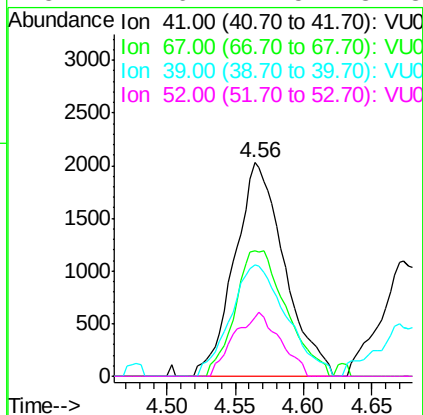
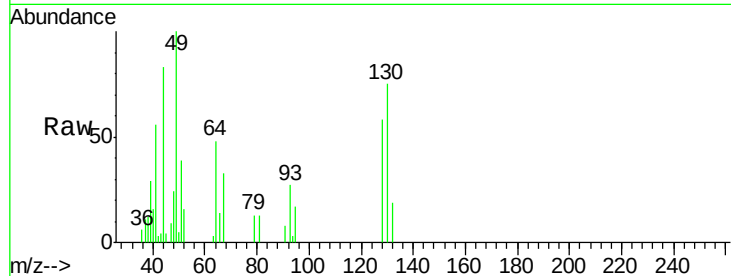
#39
Methacrylonitrile
Concen: 1.18 ug/l
RT: 4.56 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion:	41	Resp:	5153
Ion	Ratio	Lower	Upper
41	100		
67	60.3	51.3	76.9
39	58.5	40.6	60.8
52	27.6	21.5	32.3

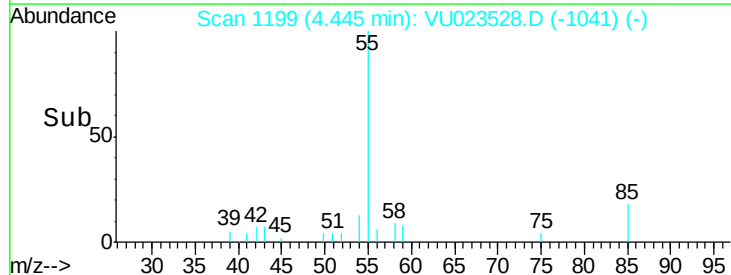
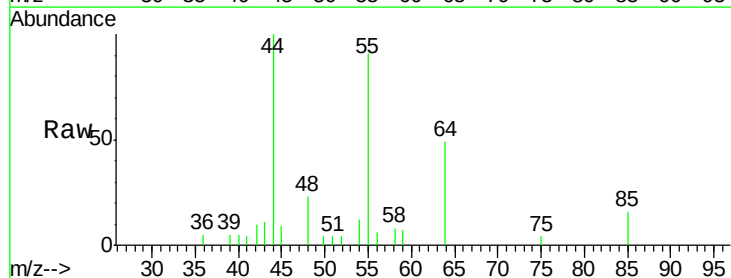
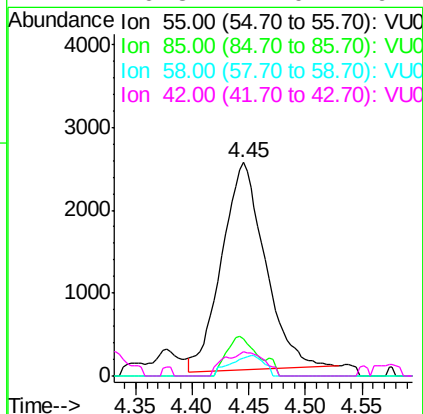
Manual Integrations
APPROVED

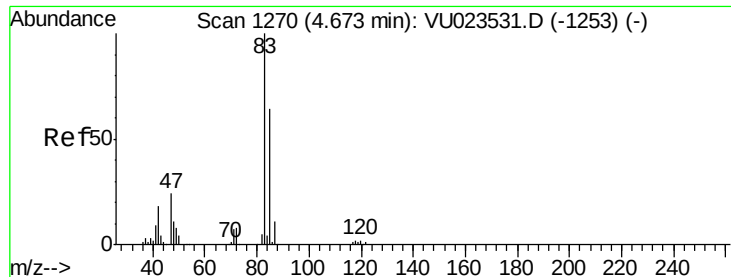
apatel
5/3/2018 4:39:03 PM



#40
Methyl acrylate
Concen: 1.01 ug/l
RT: 4.45 min Scan# 1199
Delta R.T. 0.01 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion:	55	Resp:	6677
Ion	Ratio	Lower	Upper
55	100		
85	12.7	12.3	18.5
58	7.6	7.0	10.6
42	10.8	7.0	10.4#





#41

Tetrahydrofuran

Concen: 2.42 ug/l

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

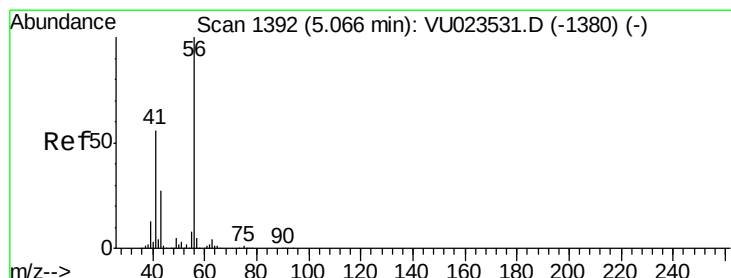
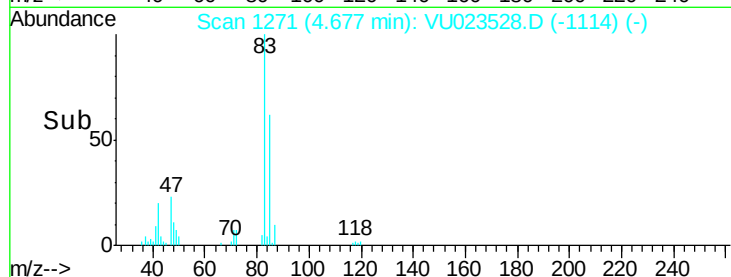
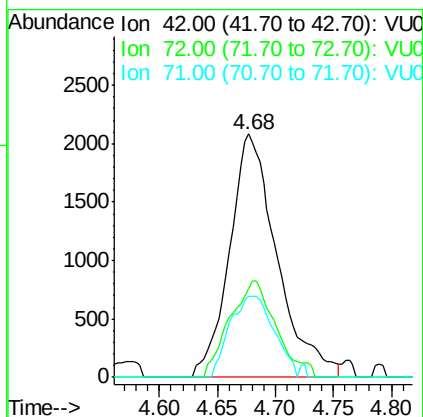
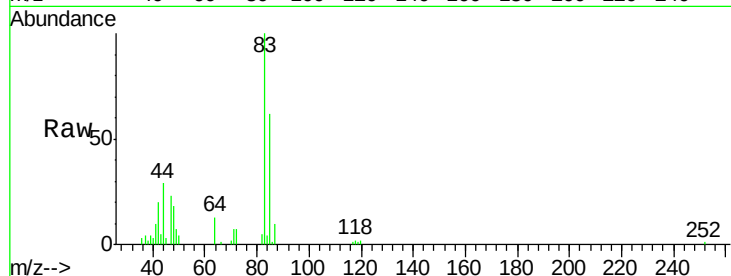
ClientSampleId :

VSTDIC001

Tot Ion:	42	Resp:	5916
Ion	Ratio	Lower	Upper
42	100		
72	38.7	33.2	49.8
71	31.0	29.8	44.8

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



#42

1-Chlorobutane

Concen: 1.07 ug/l

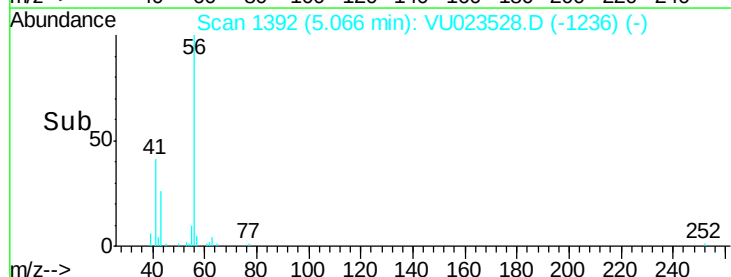
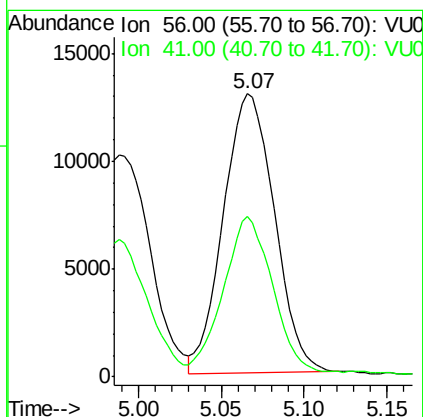
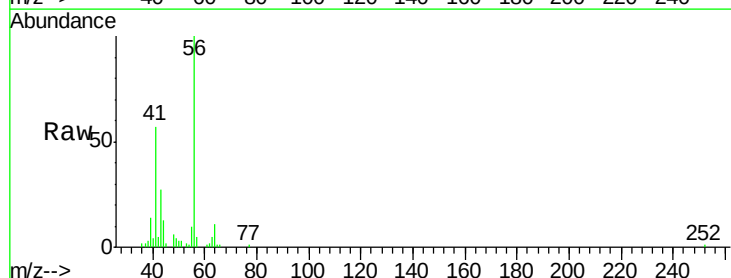
RT: 5.07 min Scan# 1392

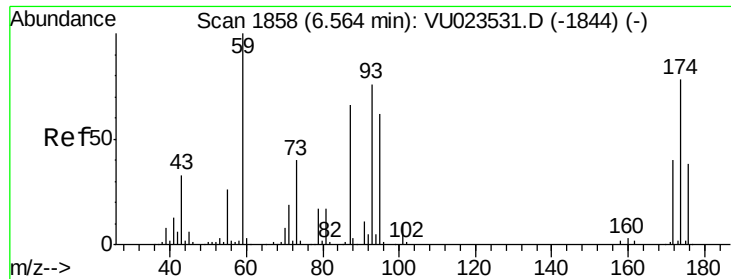
Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tgt Ion:	56	Resp:	27835
Ion	Ratio	Lower	Upper
56	100		
41	54.0	27.5	82.5





#43

Dibromomethane

Concen: 1.00 ug/l

RT: 6.57 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

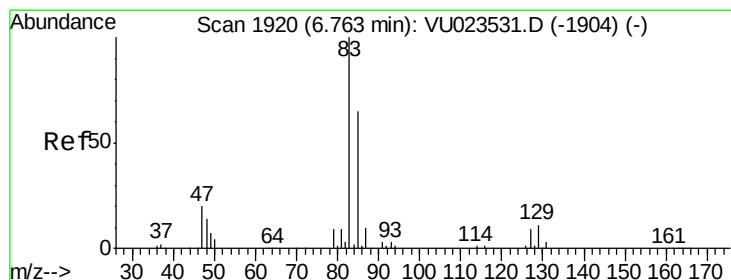
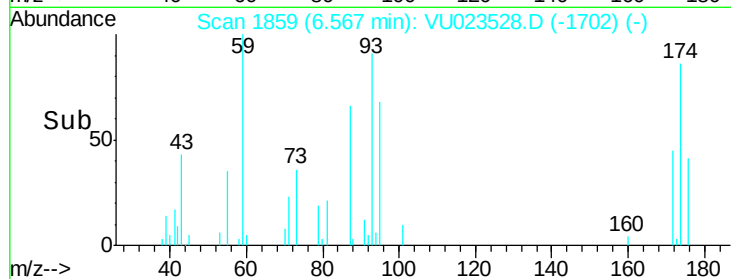
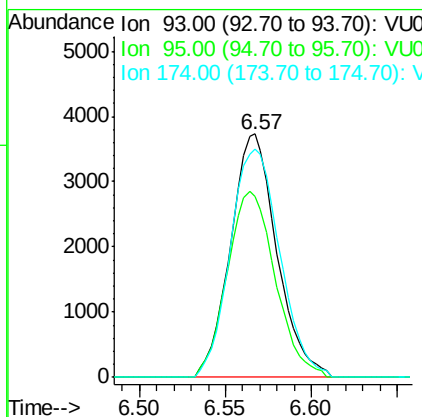
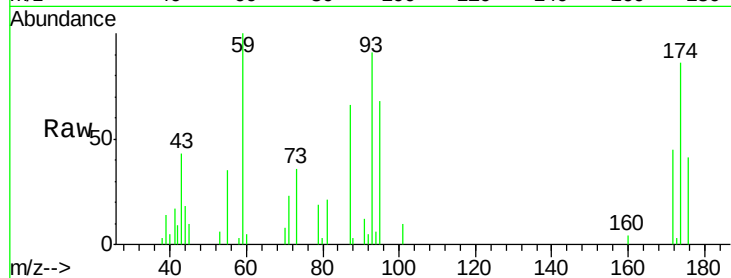
ClientSampleId :

VSTDIC001

Tot Ion:	93	Resp:	7010
Ion	Ratio	Lower	Upper
93	100		
95	79.2	67.2	100.8
174	100.3	82.8	124.2

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



#44

Bromodichloromethane

Concen: 1.02 ug/l

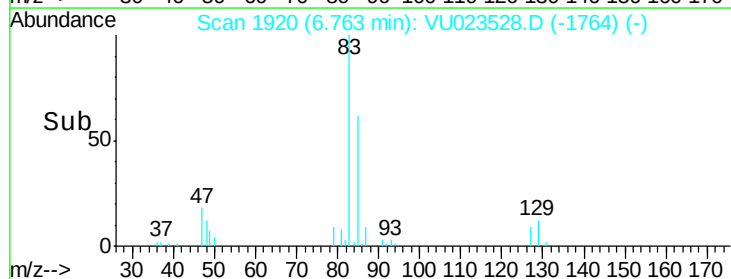
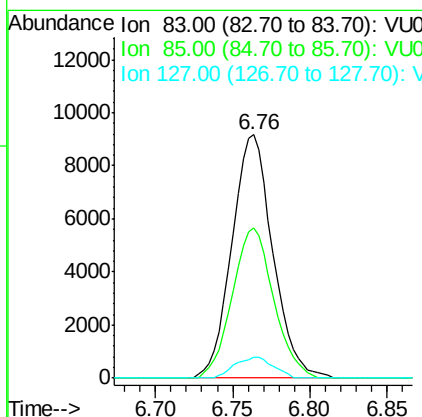
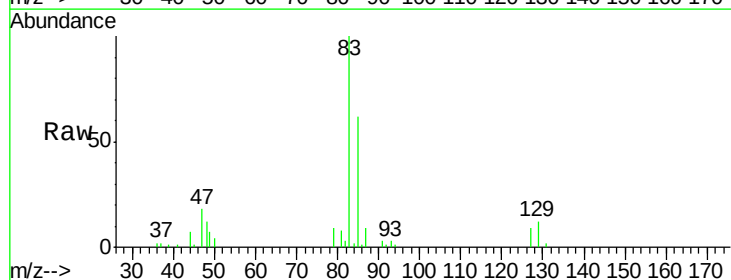
RT: 6.76 min Scan# 1920

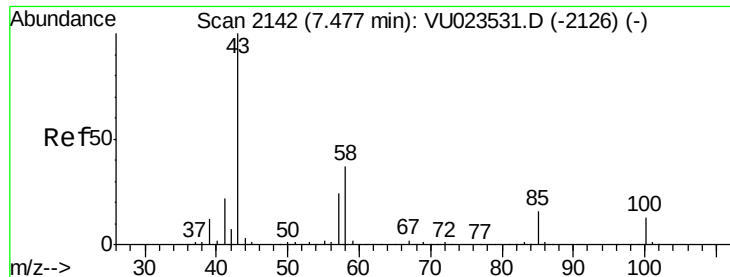
Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tgt Ion:	83	Resp:	16827
Ion	Ratio	Lower	Upper
83	100		
85	61.6	52.2	78.4
127	8.7	7.0	10.4





#45

4-Methyl-2-Pentanone

Concen: 4.63 ug/l

RT: 7.48 min Scan# 2142

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

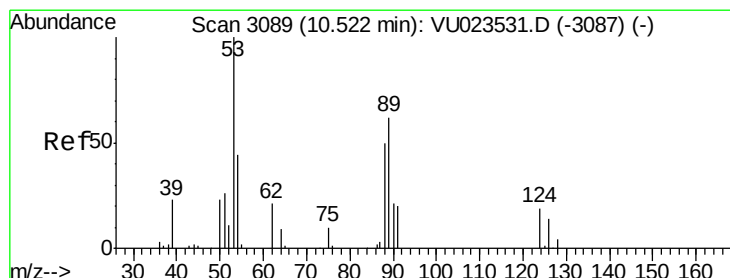
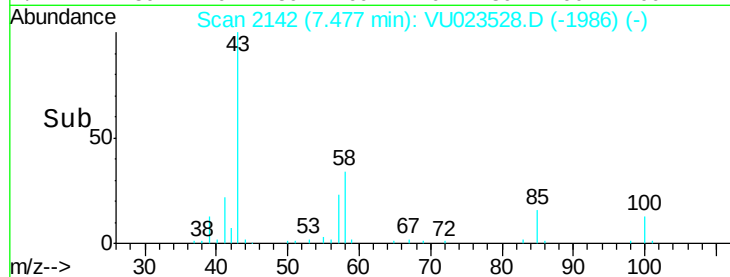
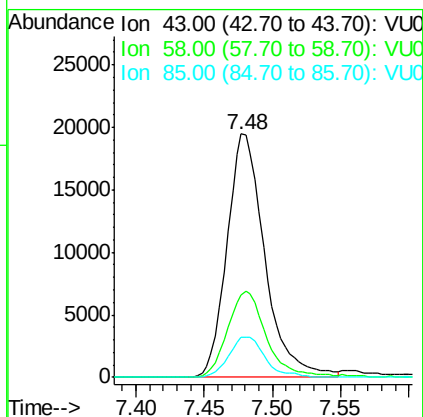
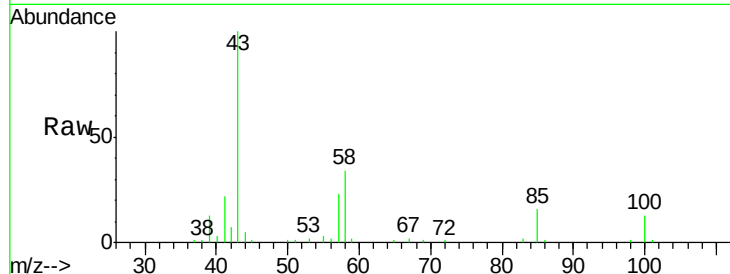
ClientSampleId :

VSTDIC001

Tot Ion:	43	Resp:	37559
Ion	Ratio	Lower	Upper
43	100		
58	36.7	18.8	56.4
85	15.8	12.6	19.0

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



#46

t-1,4-Dichloro-2-butene

Concen: 1.73 ug/l m

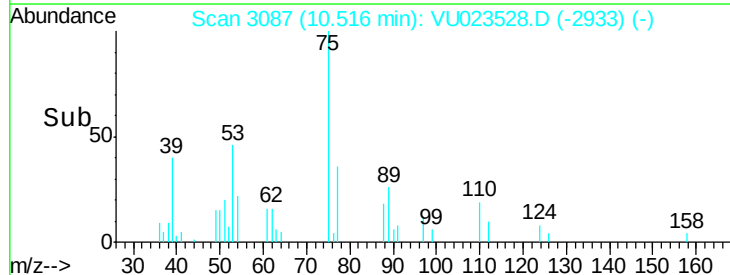
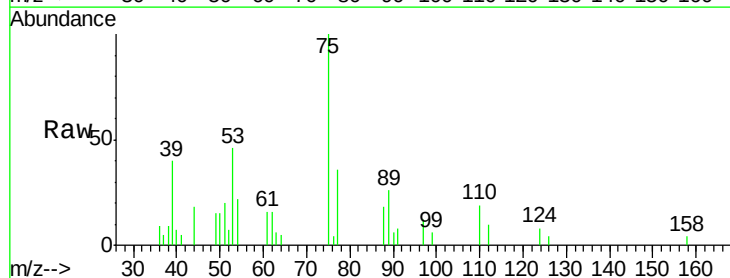
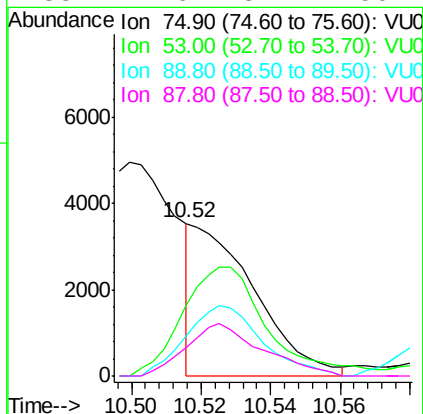
RT: 10.52 min Scan# 3087

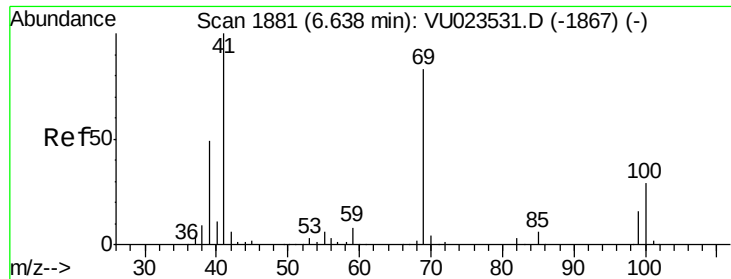
Delta R.T. -0.01 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tgt Ion:	75	Resp:	4364
Ion	Ratio	Lower	Upper
75	100		
53	97.9	82.2	123.4
89	57.2	51.3	76.9
88	42.6	37.4	56.2





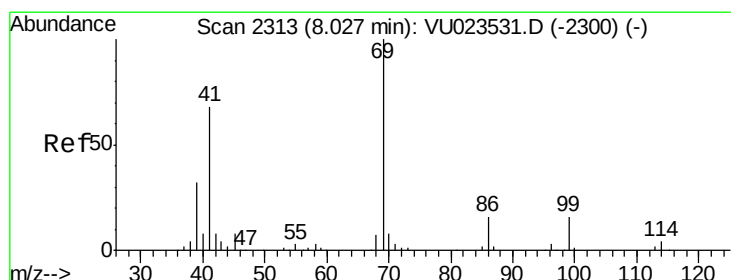
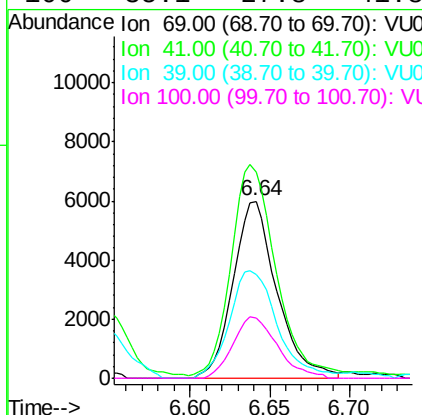
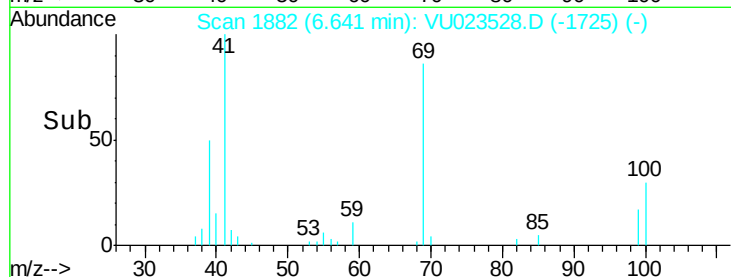
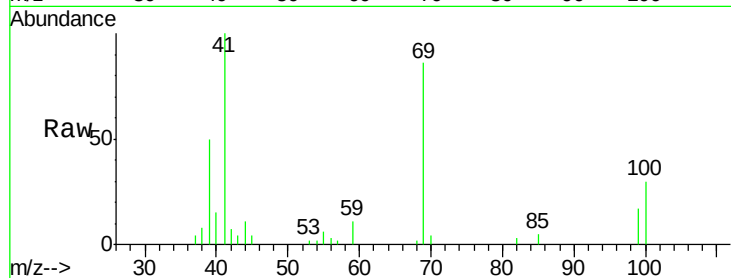
#47
Methvl methacrylate
Concen: 1.67 ug/l
RT: 6.64 min Scan# 1882
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	120.0	0.0	245.4	
39	66.8	49.0	73.4	
100	35.1	27.8	41.8	

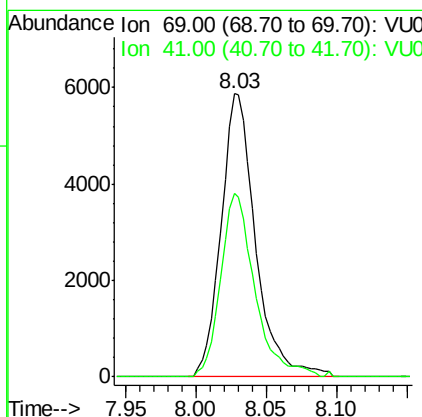
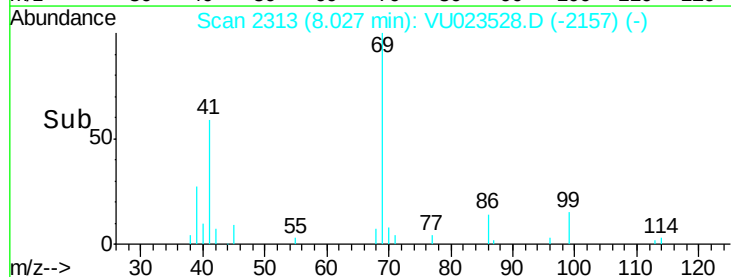
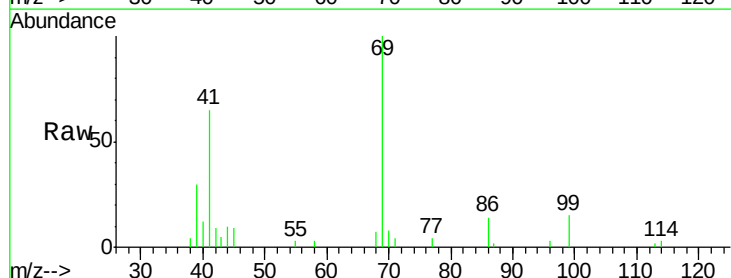
Manual Integrations
APPROVED

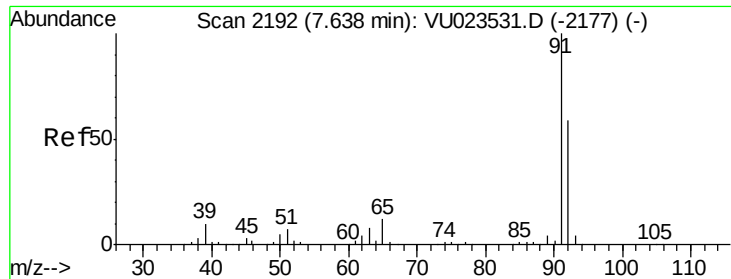
apatel
5/3/2018 4:39:03 PM



#48
Ethyl methacrylate
Concen: 0.84 ug/l
RT: 8.03 min Scan# 2313
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	64.3	34.2	102.5	





#49

Toluene

Concen: 0.92 ug/l

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 92 Resp: 31345

Ion Ratio Lower Upper

92 100

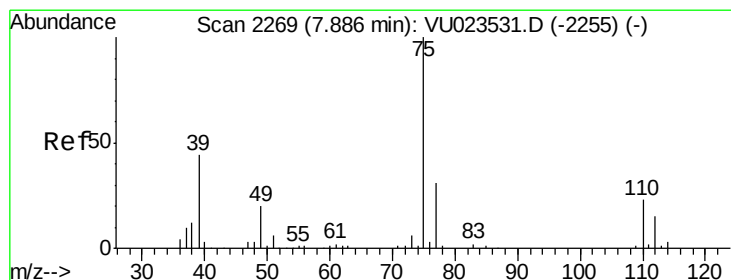
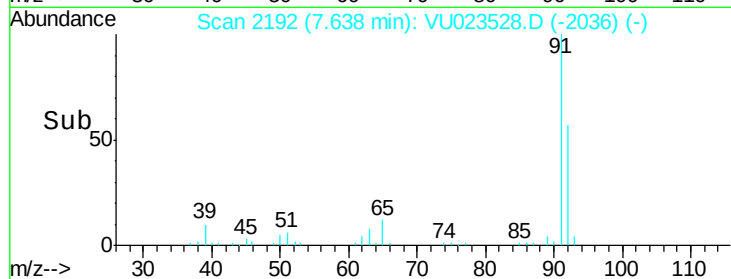
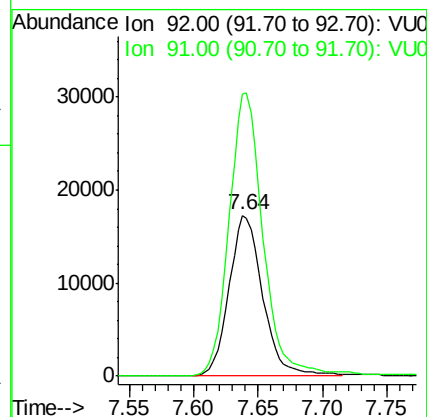
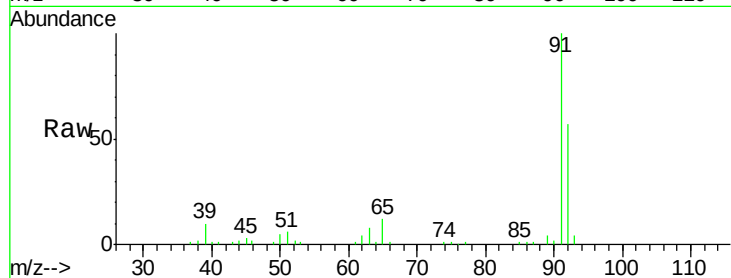
91 176.2 137.1 205.7

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#50

t-1,3-Dichloropropene

Concen: 0.94 ug/l

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU023528.D

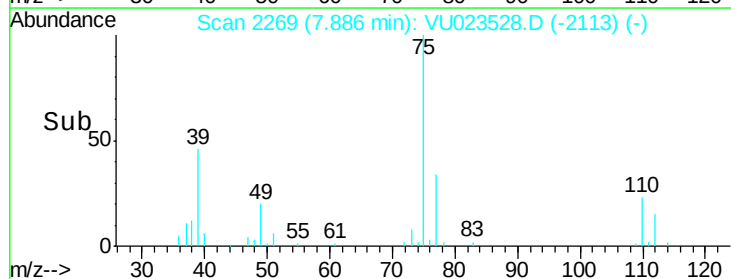
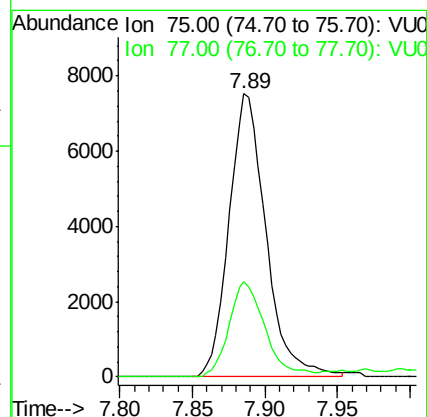
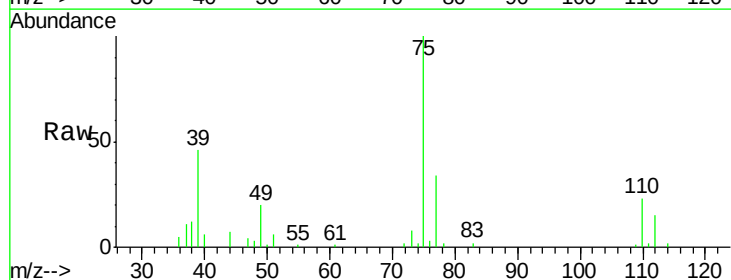
Acq: 30 Apr 2018 15:25

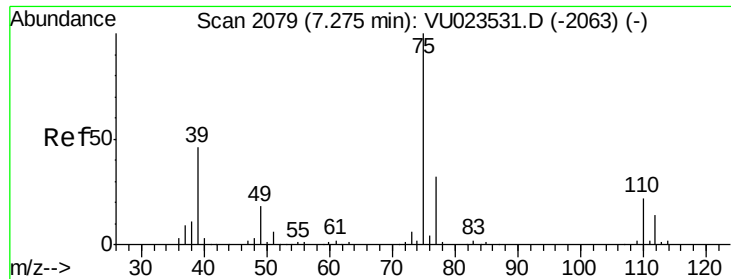
Tgt Ion: 75 Resp: 13300

Ion Ratio Lower Upper

75 100

77 33.6 25.2 37.8





#51

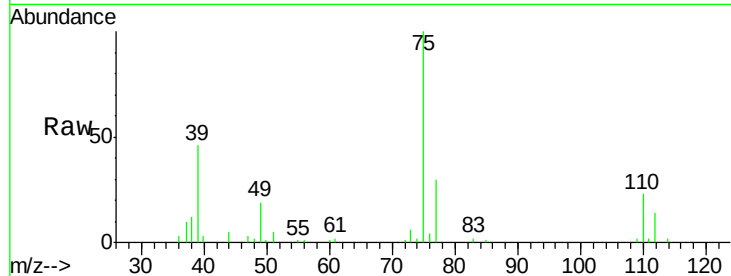
cis-1,3-Dichloropropene
Concen: 0.98 ug/l
RT: 7.27 min Scan# 2079
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

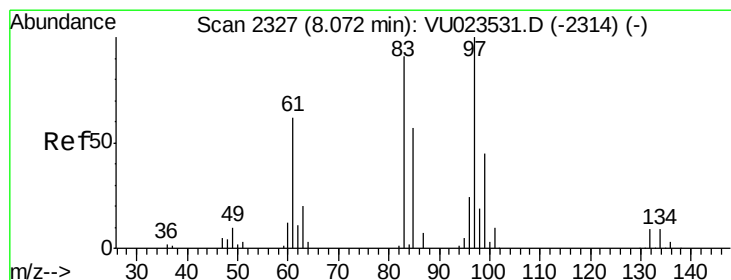
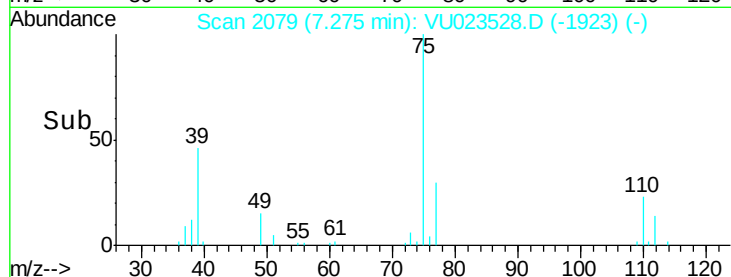
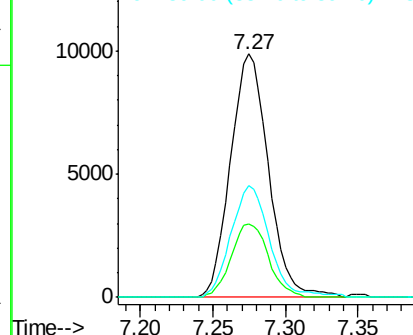
Tot Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.2	37.8
39	45.7	36.4	54.6

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

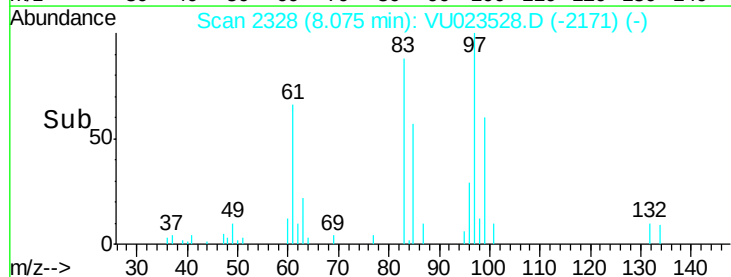
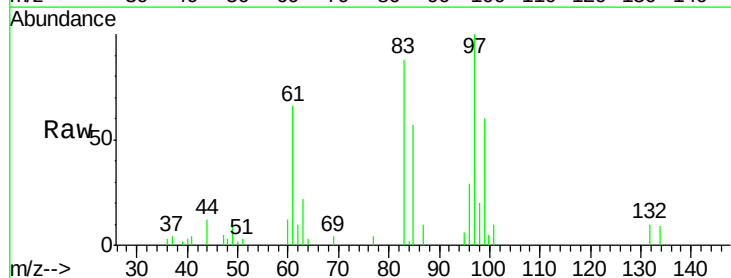
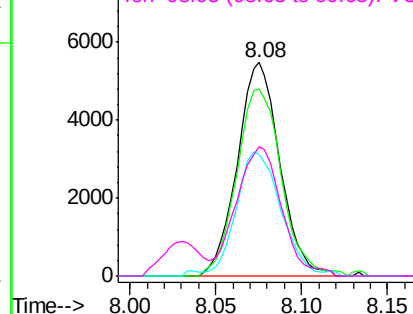


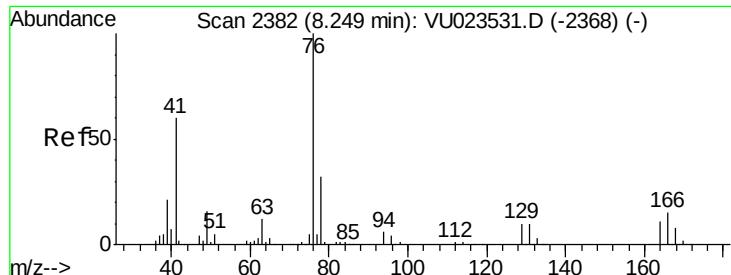
#52

1,1,2-Trichloroethane
Concen: 0.92 ug/l
RT: 8.08 min Scan# 2328
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.7	72.6	109.0
85	56.9	47.2	70.8
99	60.3	50.8	76.2

Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 84.95 (84.65 to 85.65): VU0
Ion 98.95 (98.65 to 99.65): VU0





#53

1,3-Dichloropropane

Concen: 0.95 ug/l

RT: 8.25 min Scan# 2382

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion: 76 Resp: 16788

Ion Ratio Lower Upper

76 100

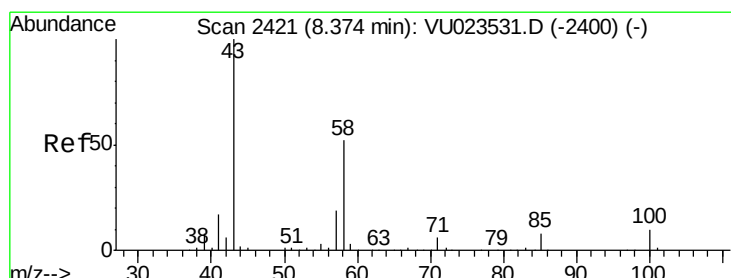
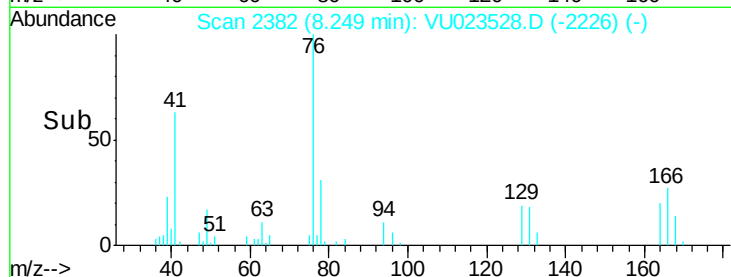
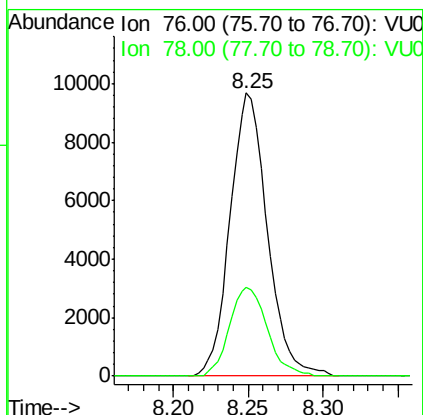
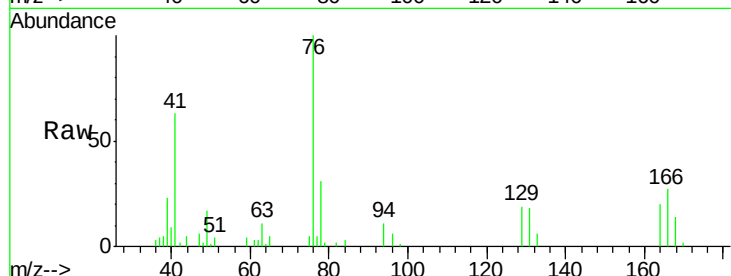
78 31.8 25.7 38.5

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#54

2-Hexanone

Concen: 4.49 ug/l

RT: 8.38 min Scan# 2423

Delta R.T. 0.01 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

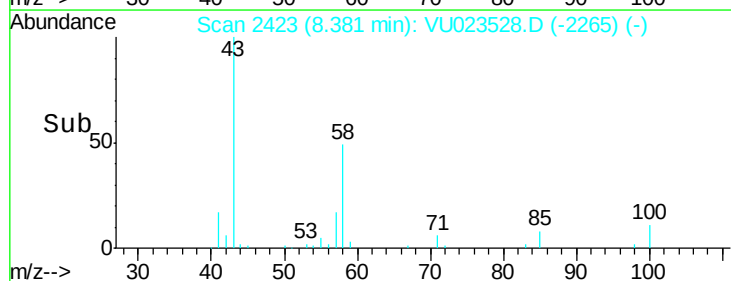
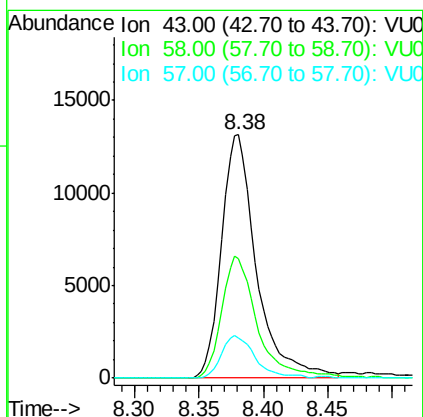
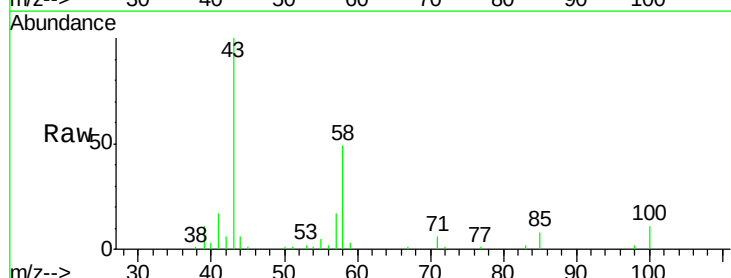
Tgt Ion: 43 Resp: 24814

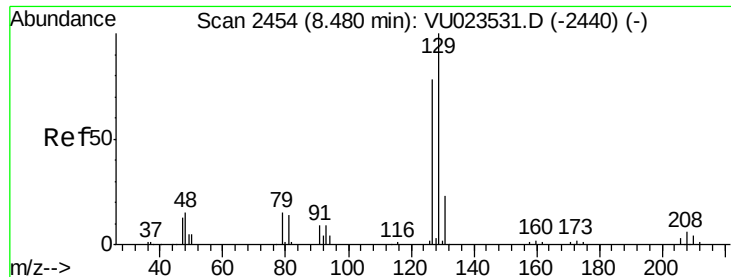
Ion Ratio Lower Upper

43 100

58 50.8 32.5 72.5

57 16.8 0.0 37.9





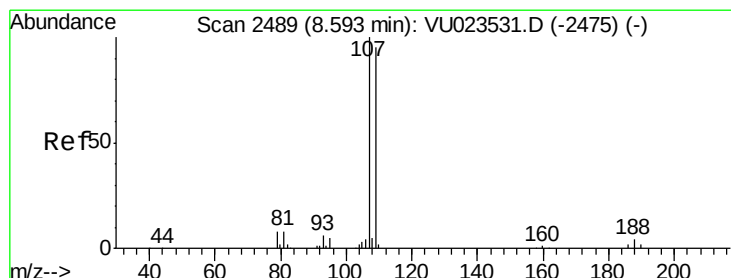
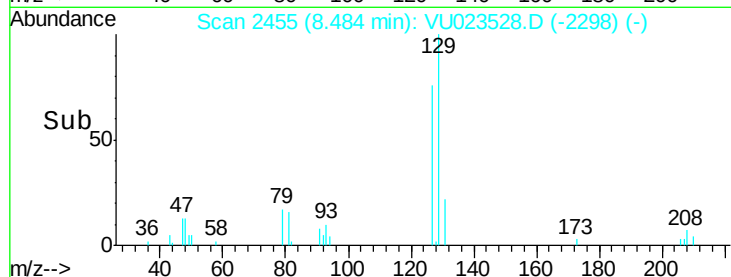
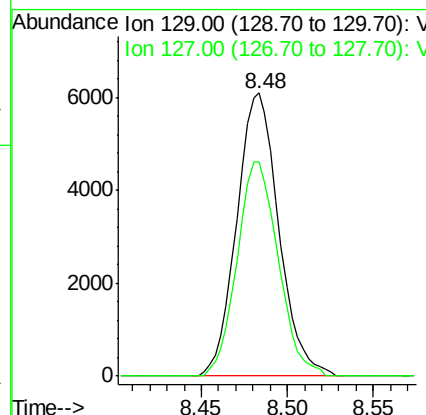
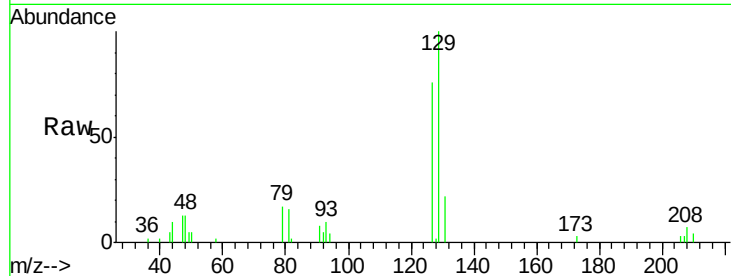
#55
 Dibromochloromethane
 Concen: 0.98 ug/l
 RT: 8.48 min Scan# 2455
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
129	100		
127	73.9	61.1	91.7

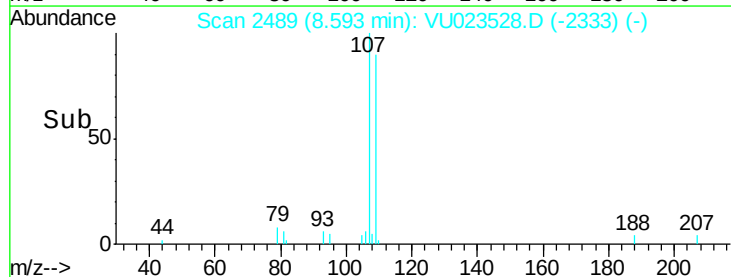
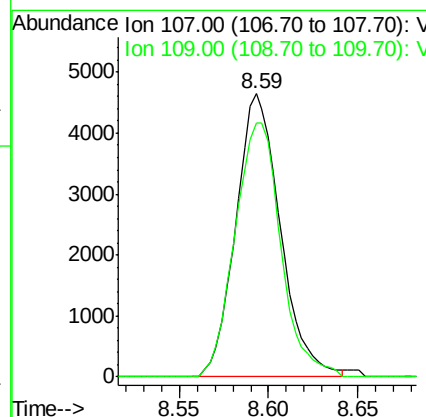
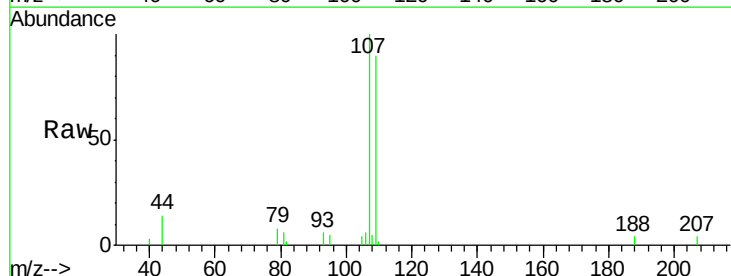
Manual Integrations
 APPROVED

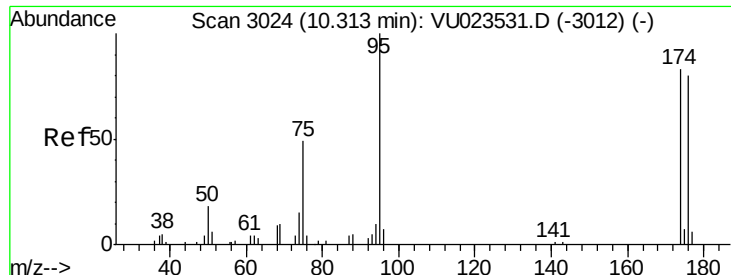
apatel
 5/3/2018 4:39:03 PM



#56
 1,2-Dibromoethane
 Concen: 0.90 ug/l
 RT: 8.59 min Scan# 2489
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.3	0.0	189.0





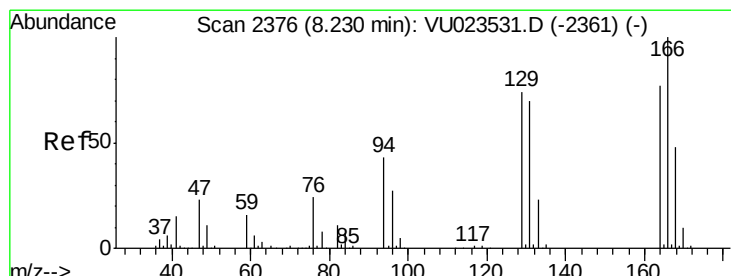
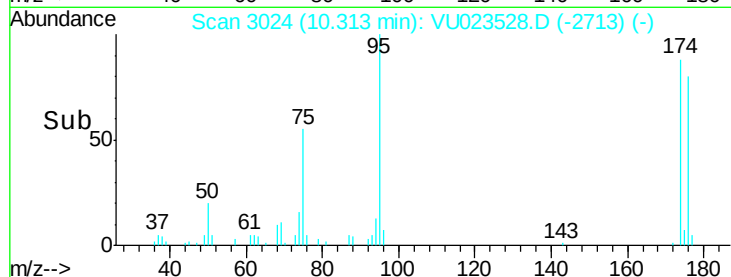
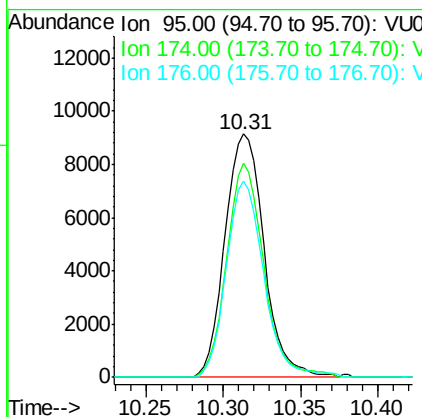
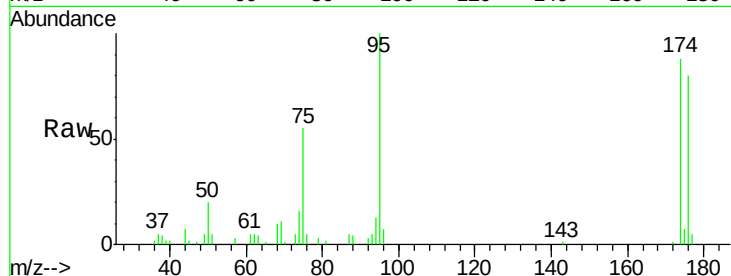
#57
4-Bromofluorobenzene
Concen: 0.90 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
95	100		
174	83.5	65.6	98.4
176	77.1	62.0	93.0

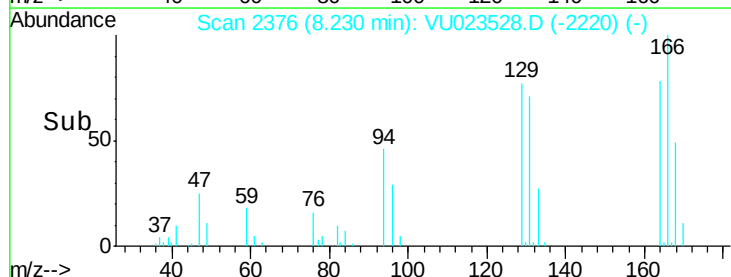
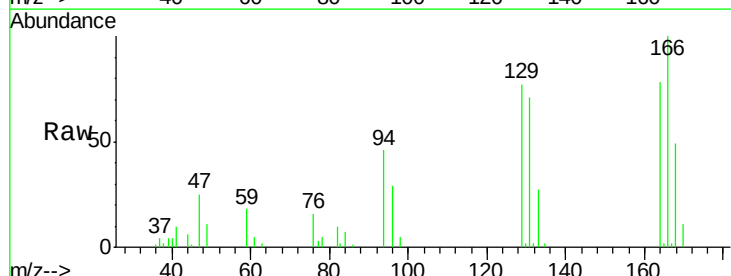
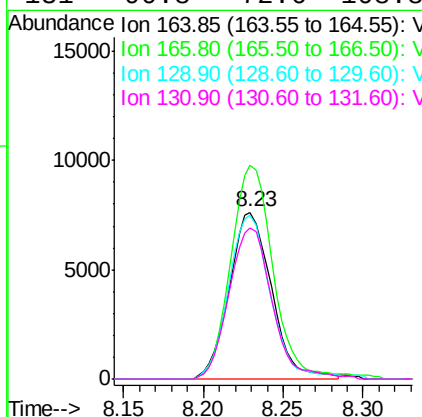
Manual Integrations
APPROVED

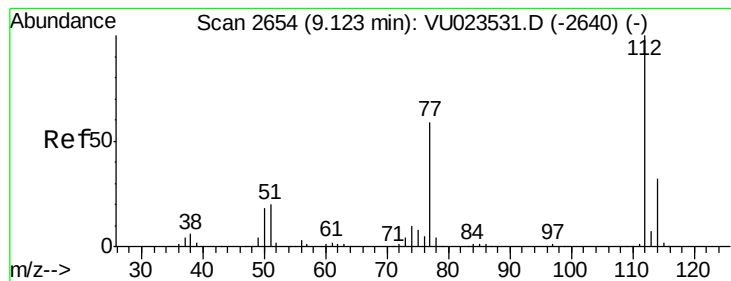
apatel
5/3/2018 4:39:03 PM



#58
Tetrachloroethene
Concen: 0.99 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	104.1	156.1
129	98.1	76.8	115.2
131	90.8	72.6	108.8





#59

Chlorobenzene

Concen: 0.94 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:112 Resp: 35269

Ion Ratio Lower Upper

112 100

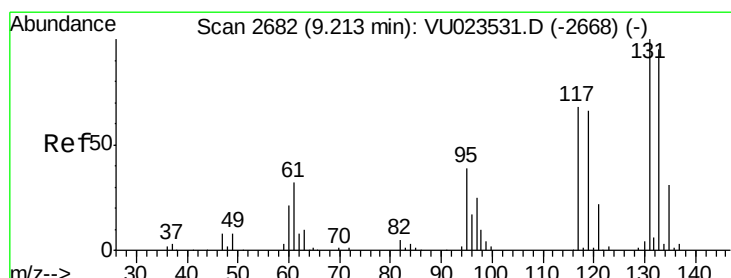
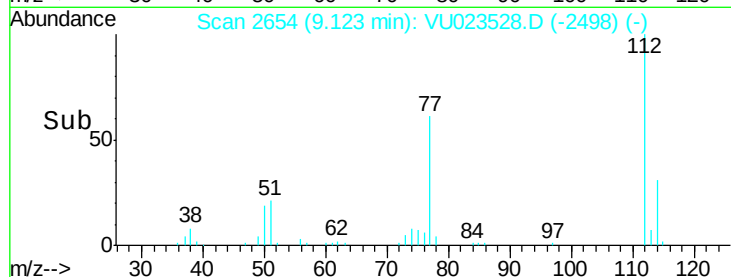
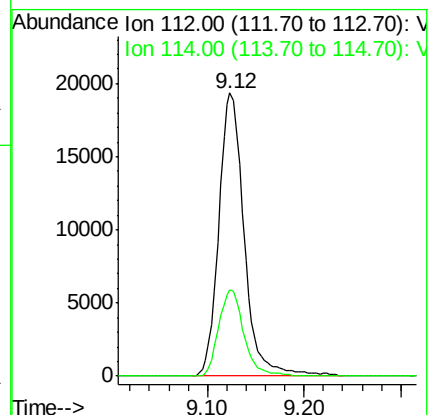
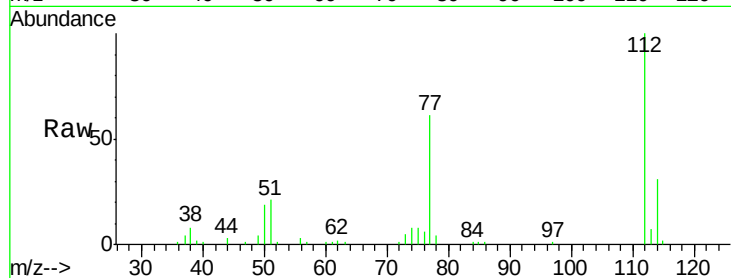
114 30.5 25.4 38.2

Manual Integrations

APPROVED

apatel

5/3/2018 4:39:03 PM



#60

1,1,1,2-Tetrachloroethane

Concen: 0.93 ug/l

RT: 9.21 min Scan# 2682

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

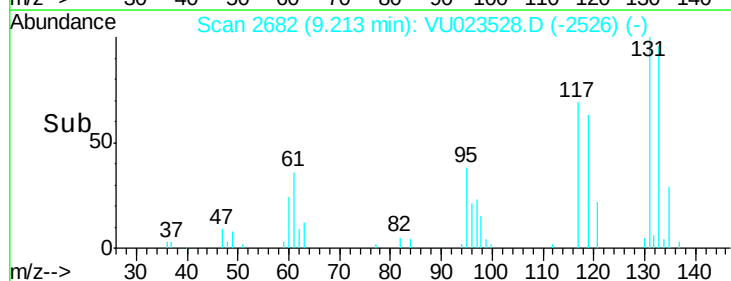
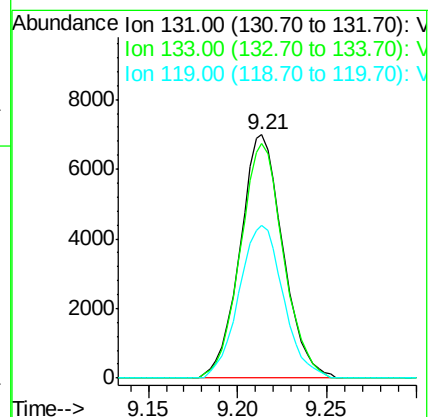
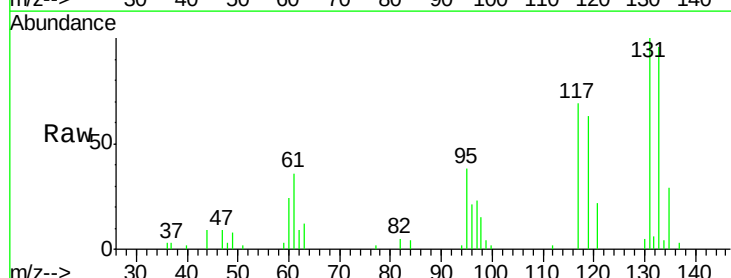
Tgt Ion:131 Resp: 11730

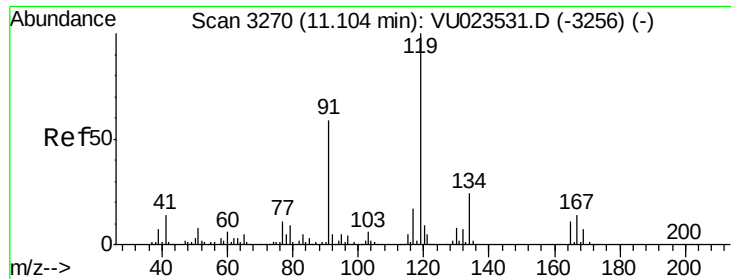
Ion Ratio Lower Upper

131 100

133 96.7 75.8 113.8

119 64.7 53.0 79.6





#61

Pentachloroethane

Concen: 0.97 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:117 Resp: 8929

Ion Ratio Lower Upper

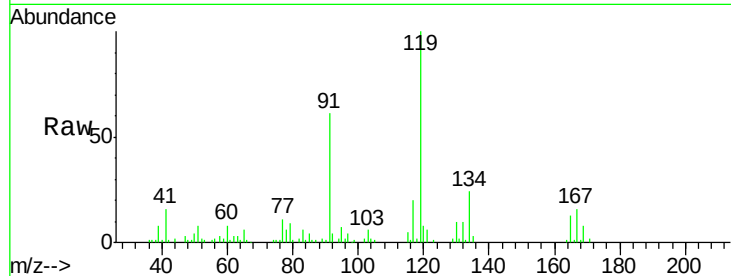
117 100

167 75.8 69.2 103.8

Manual Integrations
APPROVED

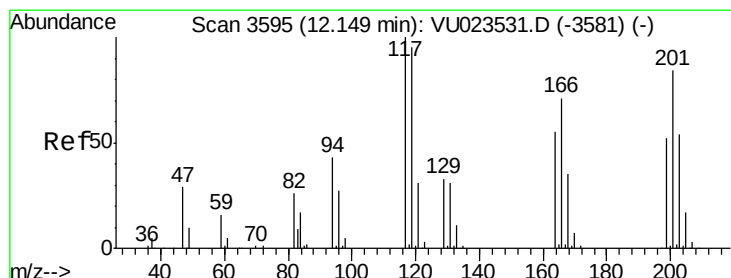
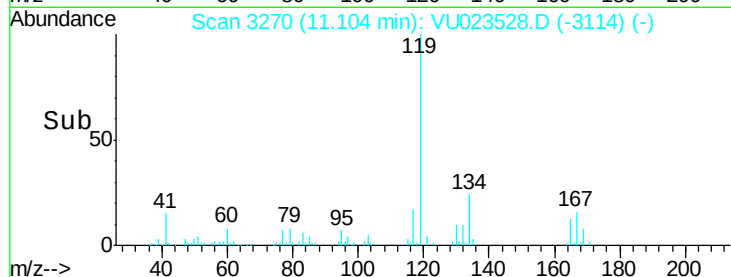
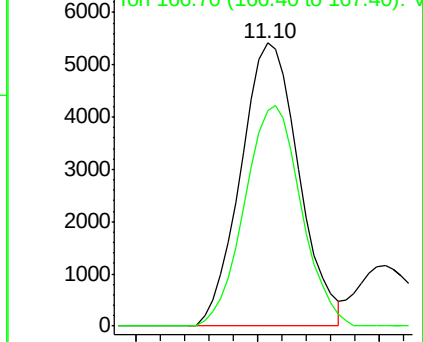
apatel

5/3/2018 4:39:03 PM



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 0.94 ug/l

RT: 12.15 min Scan# 3595

Delta R.T. -0.00 min

Lab File: VU023528.D

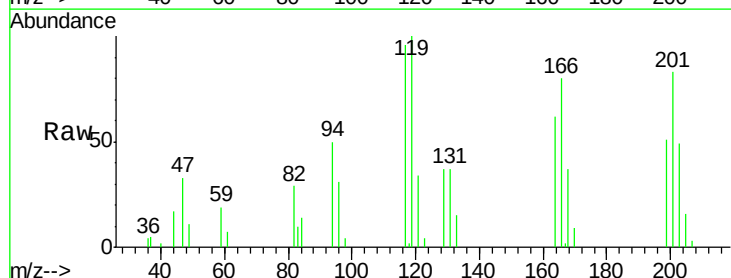
Acq: 30 Apr 2018 15:25

Tgt Ion:117 Resp: 7761

Ion Ratio Lower Upper

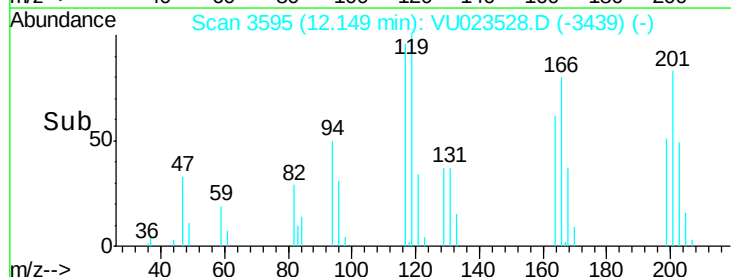
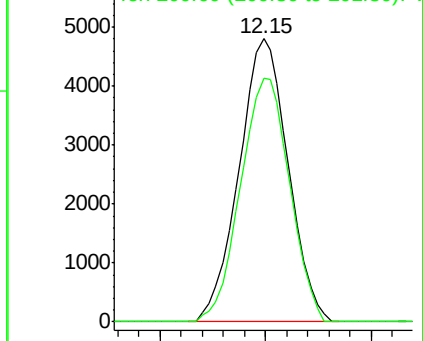
117 100

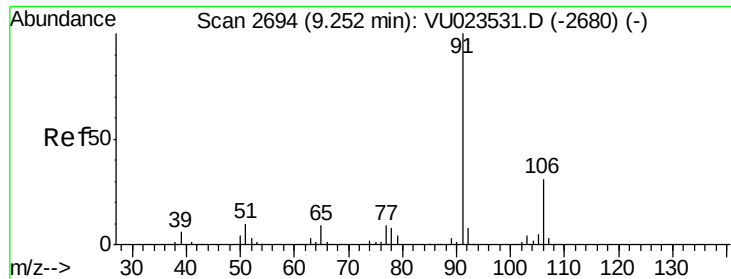
201 86.0 68.7 103.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





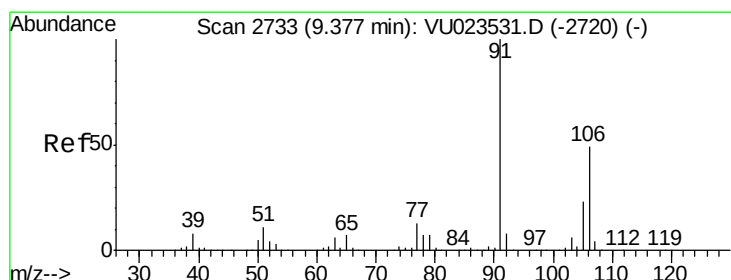
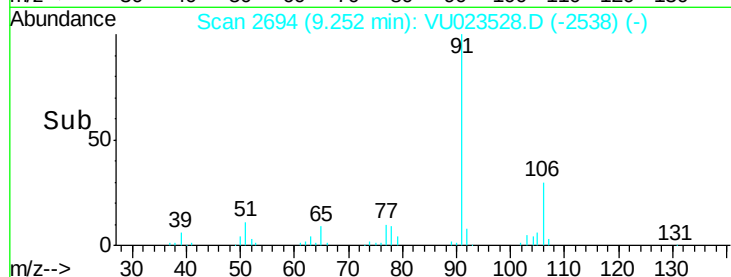
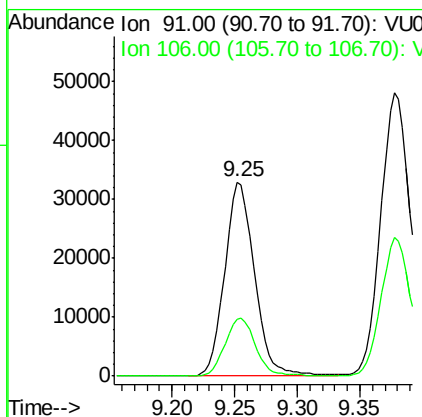
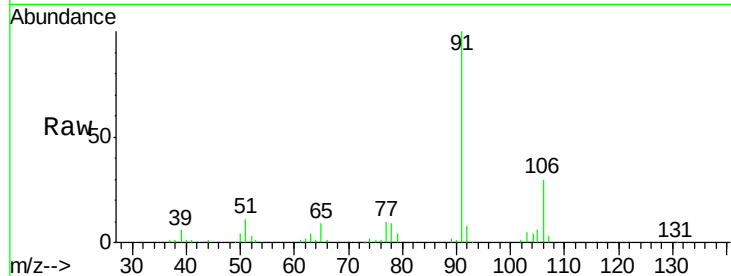
#63
Ethyl Benzene
Concen: 0.88 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 54663
Ion Ratio Lower Upper
91 100
106 29.6 24.7 37.1

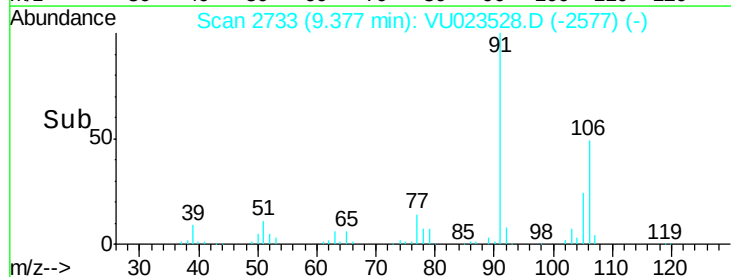
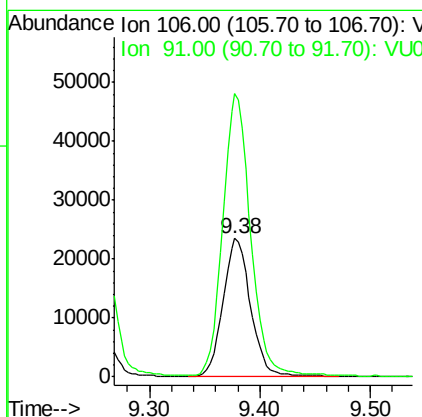
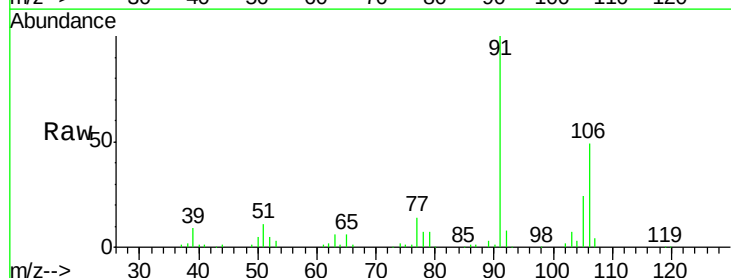
Manual Integrations
APPROVED

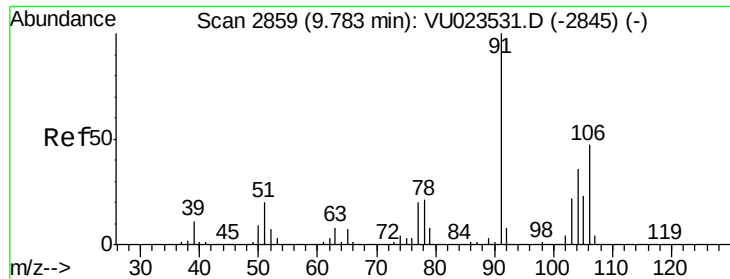
apatel
5/3/2018 4:39:03 PM



#64
m/p-Xylenes
Concen: 1.72 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion: 106 Resp: 41117
Ion Ratio Lower Upper
106 100
91 204.0 164.1 246.1





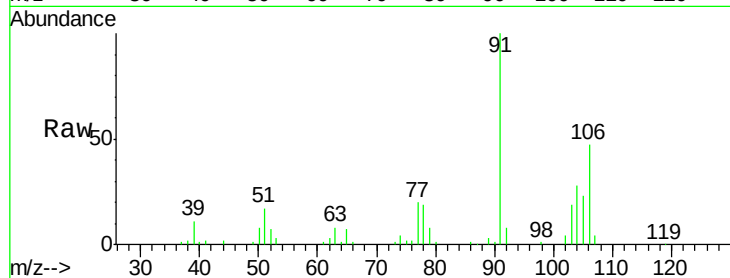
#65
o-Xylene
Concen: 0.86 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

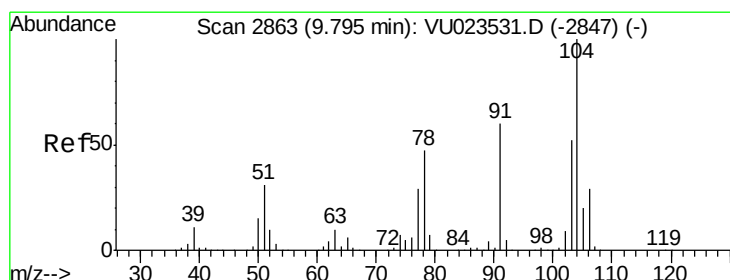
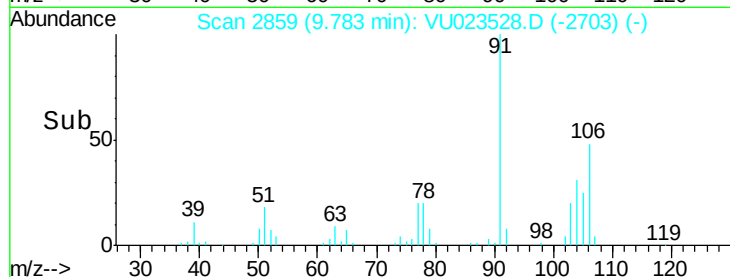
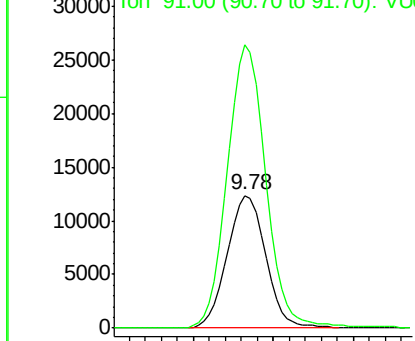
Tot Ion	Ratio	Lower	Upper
106	100		
91	213.6	107.9	323.7

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM

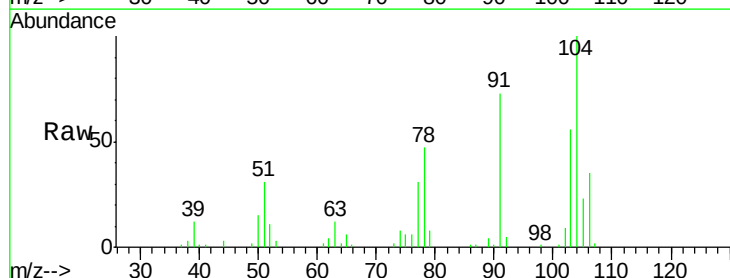


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

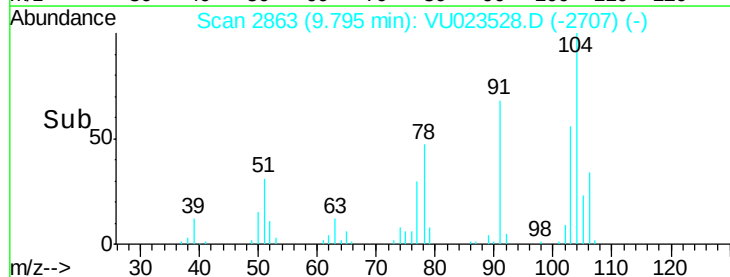
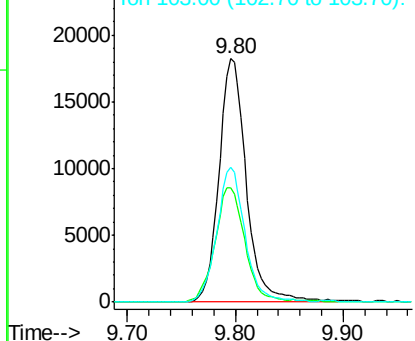


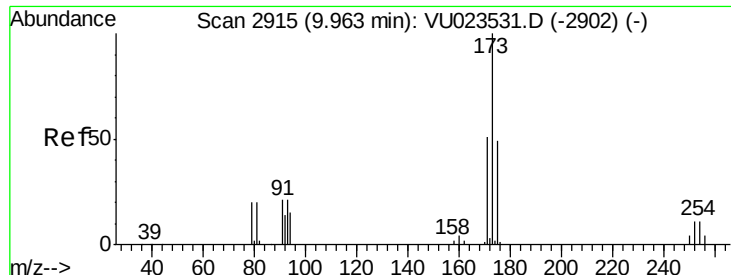
#66
Styrene
Concen: 0.83 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.8	40.2	60.2
103	56.8	44.2	66.4



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





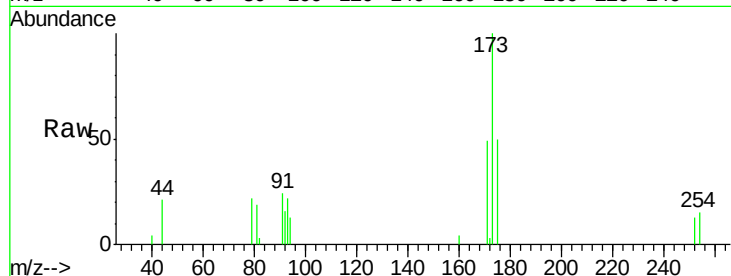
#67
Bromoform
Concen: 0.91 ug/l
RT: 9.97 min Scan# 2916
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

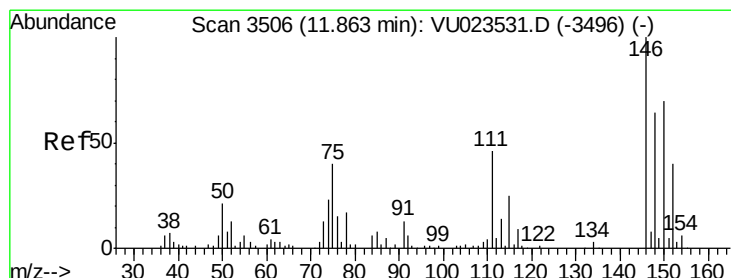
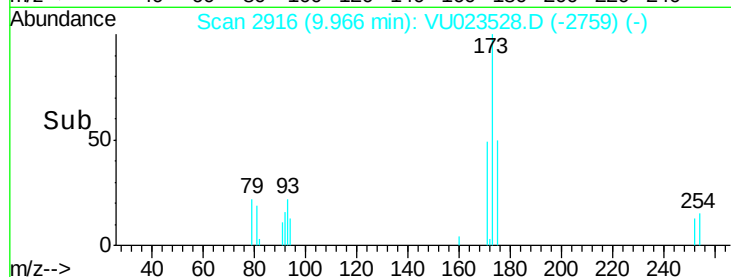
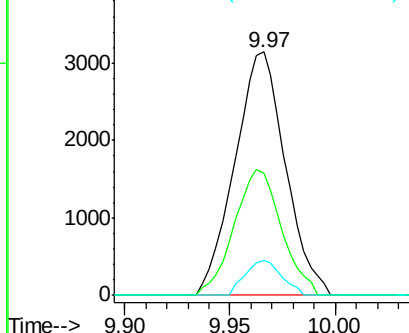
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.6	57.8
254	10.4	8.8	13.2

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM

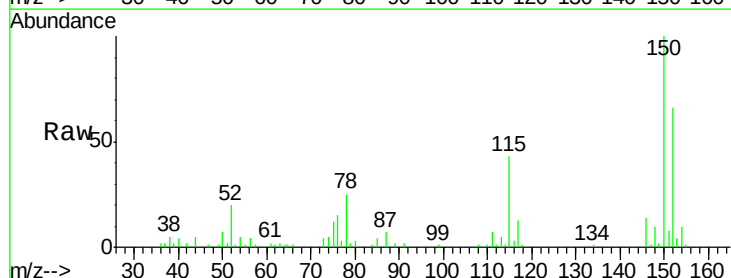


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V

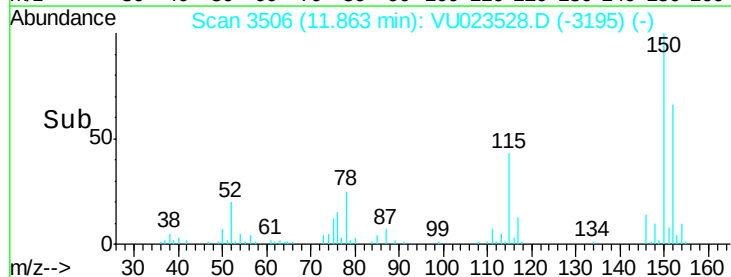
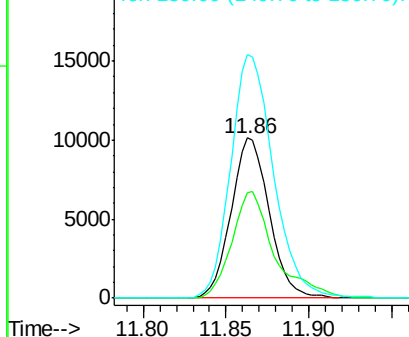


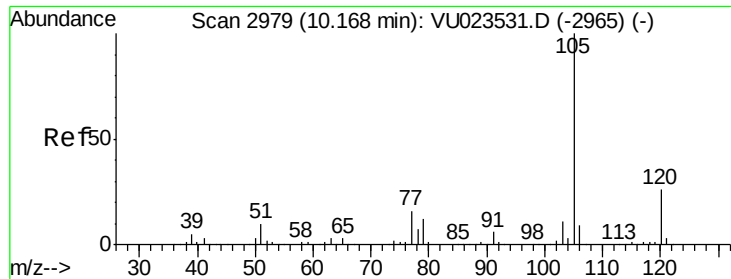
#68
1,2-Dichlorobenzene-d4
Concen: 0.91 ug/l
RT: 11.86 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VU023528.D
Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	74.1	0.0	118.8
150	171.3	0.0	0.0#



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: 0.88 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 52031

Ion Ratio Lower Upper

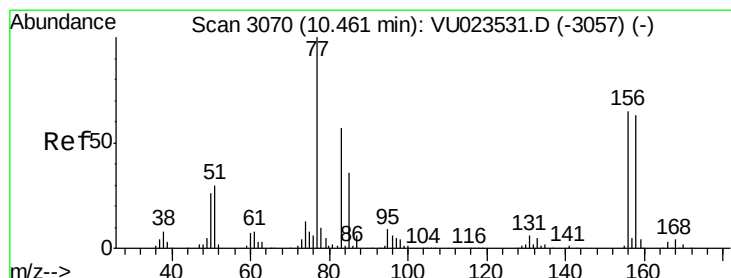
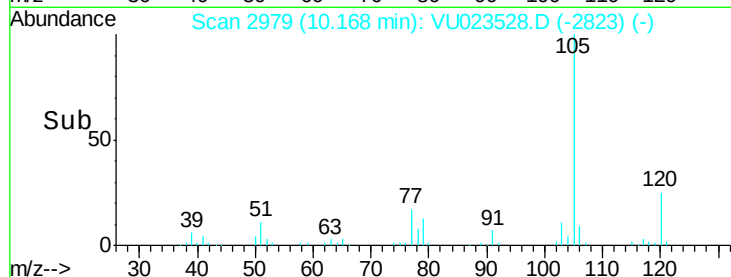
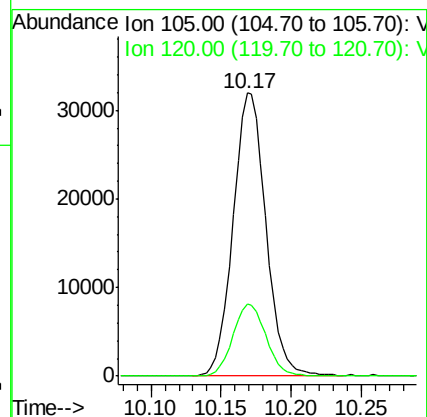
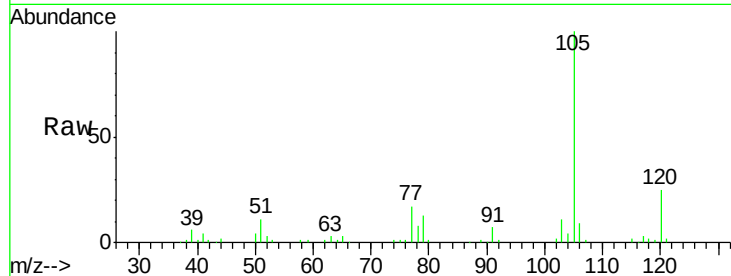
105 100

120 25.5 13.1 39.3

Manual Integrations
APPROVED

apatel

5/3/2018 4:39:03 PM



#70

1,1,2,2-Tetrachloroethane

Concen: 0.90 ug/l

RT: 10.46 min Scan# 3071

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

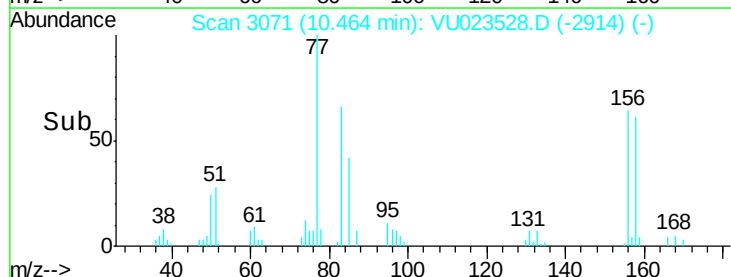
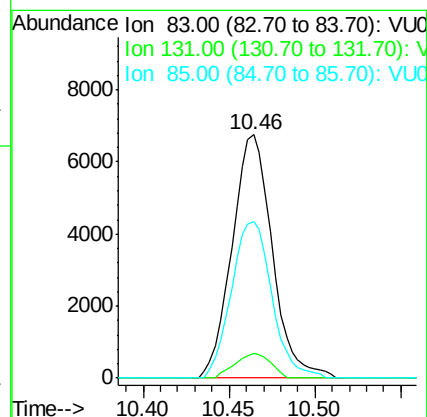
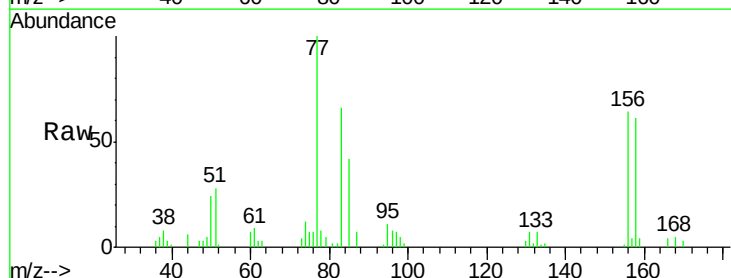
Tgt Ion: 83 Resp: 11048

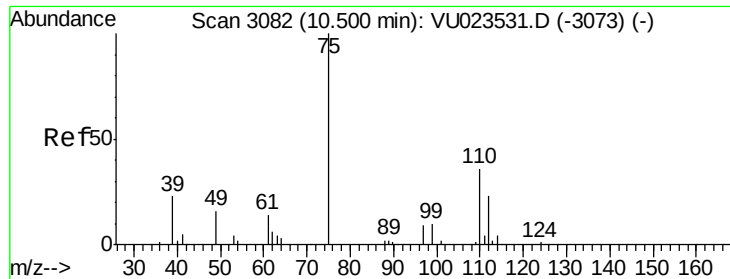
Ion Ratio Lower Upper

83 100

131 9.0 7.9 11.9

85 64.7 51.8 77.6





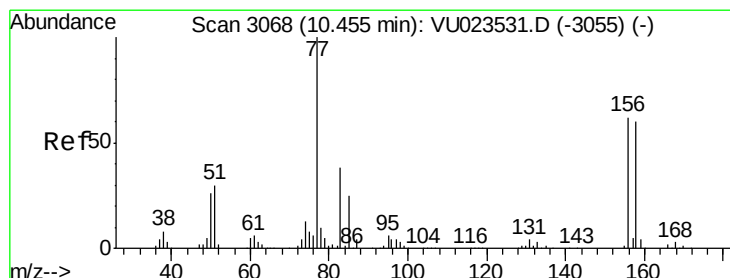
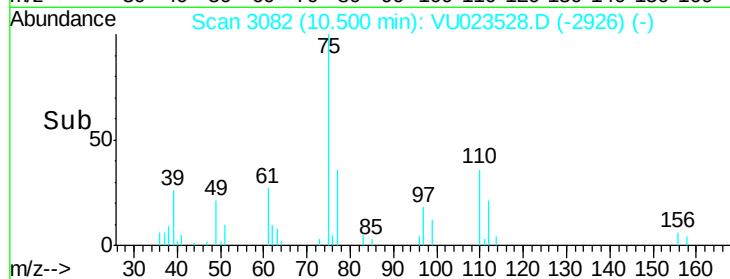
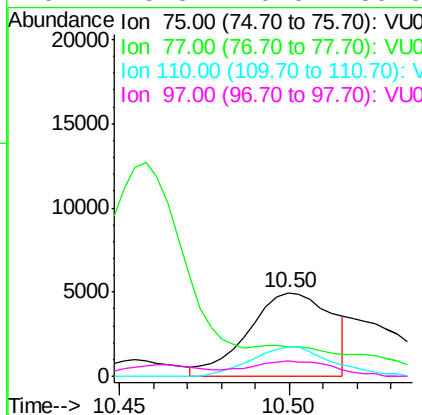
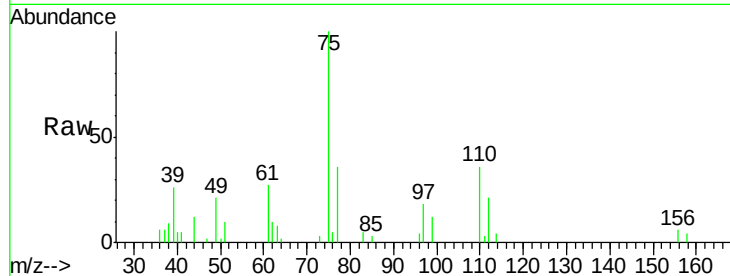
#71
 1,2,3-Trichloropropane
 Concen: 0.94 ug/l m
 RT: 10.50 min Scan# 3082
 Delta R.T. -0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion:	75	Resp:	8494
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	33.4	0.0	74.0
97	18.3	0.0	39.6

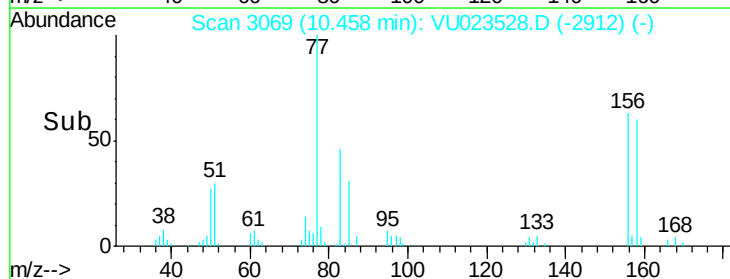
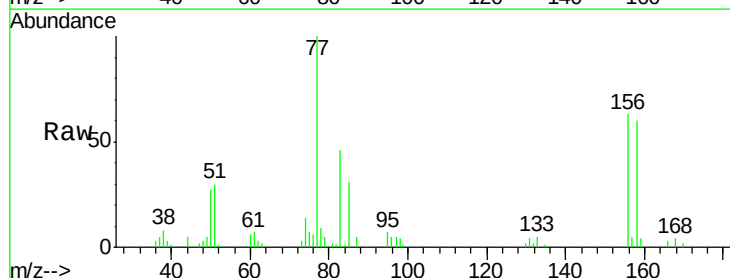
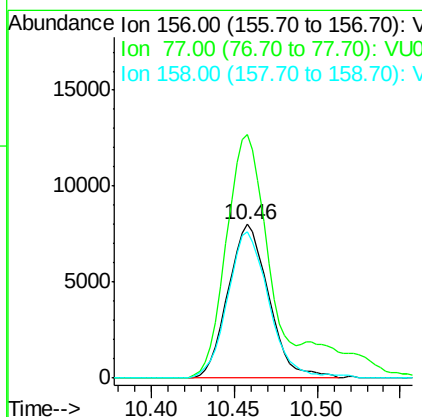
Manual Integrations
 APPROVED

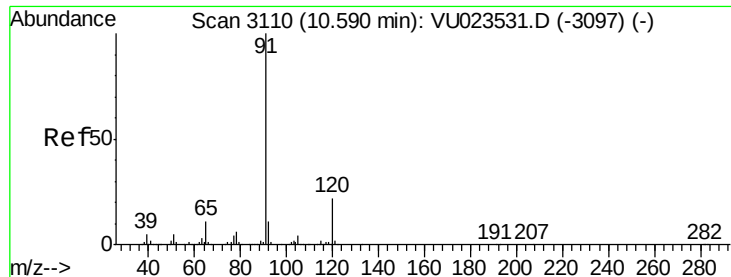
apatel
 5/3/2018 4:39:03 PM



#72
 Bromobenzene
 Concen: 0.87 ug/l
 RT: 10.46 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion:	156	Resp:	13704
Ion	Ratio	Lower	Upper
156	100		
77	158.1	0.0	309.8
158	96.8	0.0	193.0





#73

n-propylbenzene

Concen: 0.86 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:120 Resp: 14308

Ion Ratio Lower Upper

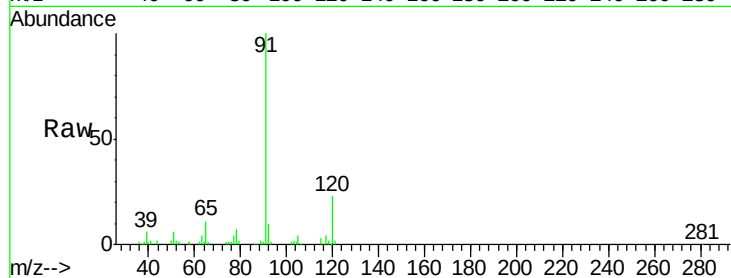
120 100

91 439.6 352.2 528.4

Manual Integrations
APPROVED

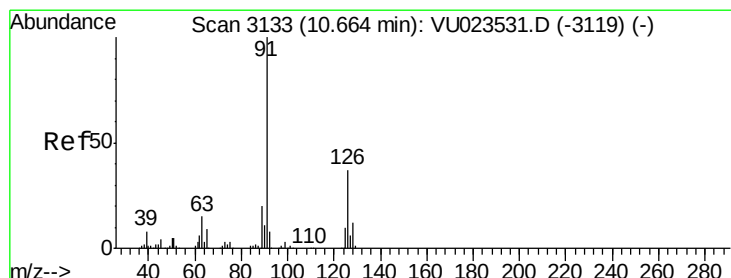
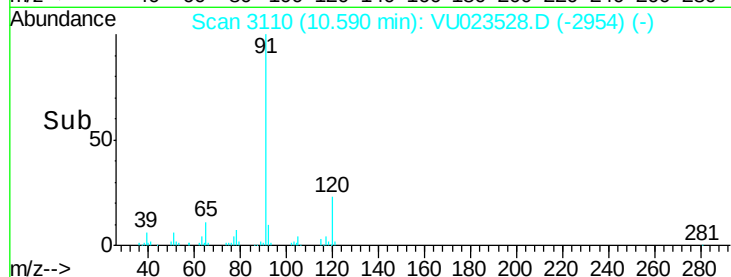
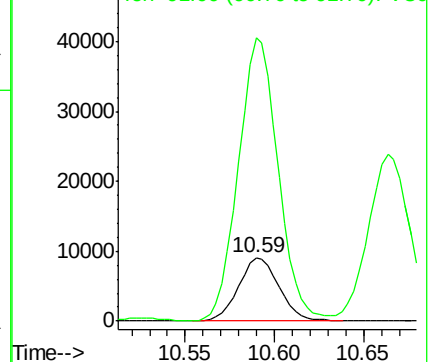
apatel

5/3/2018 4:39:03 PM



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 0.88 ug/l

RT: 10.67 min Scan# 3134

Delta R.T. 0.00 min

Lab File: VU023528.D

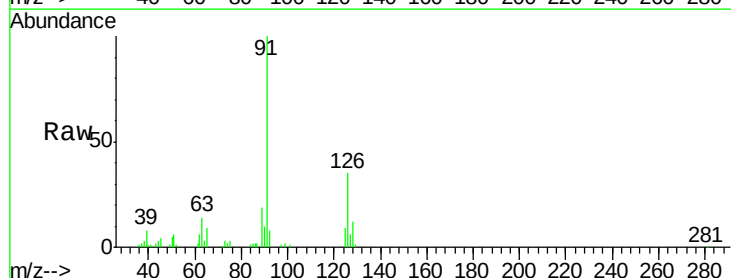
Acq: 30 Apr 2018 15:25

Tgt Ion:126 Resp: 13165

Ion Ratio Lower Upper

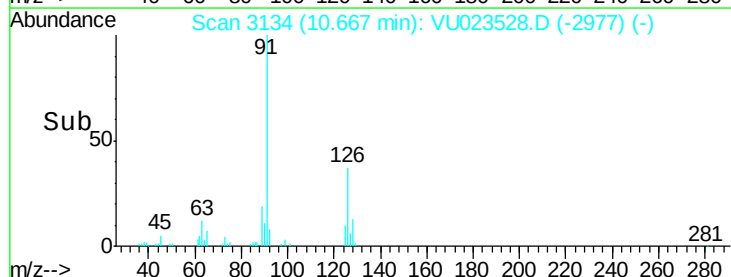
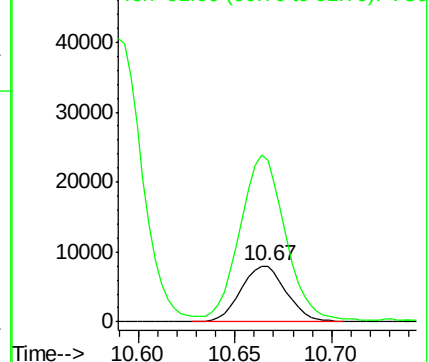
126 100

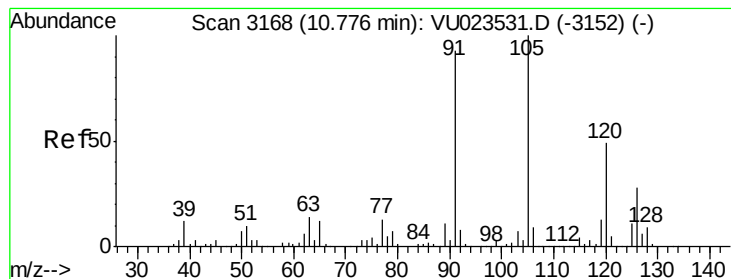
91 292.1 0.0 613.0



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: 0.85 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampled :

VSTDIC001

Tot Ion:105 Resp: 43210

Ion Ratio Lower Upper

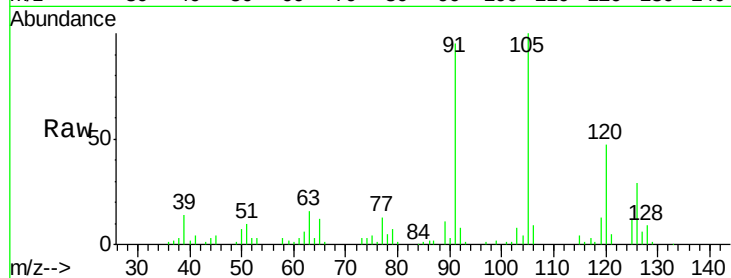
105 100

120 47.6 39.0 58.6

Manual Integrations
APPROVED

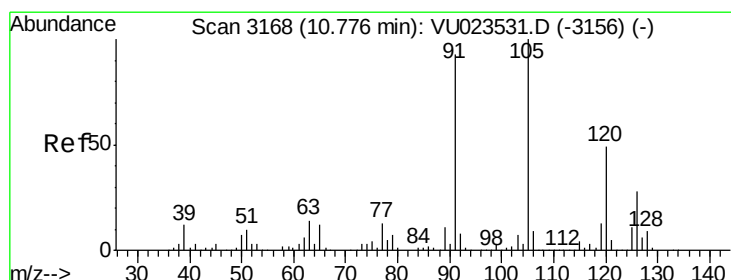
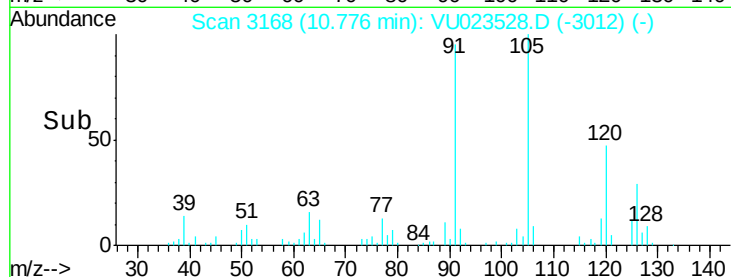
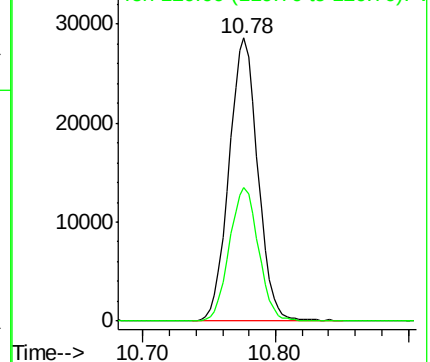
apatel

5/3/2018 4:39:03 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

4-Chlorotoluene

Concen: 0.87 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VU023528.D

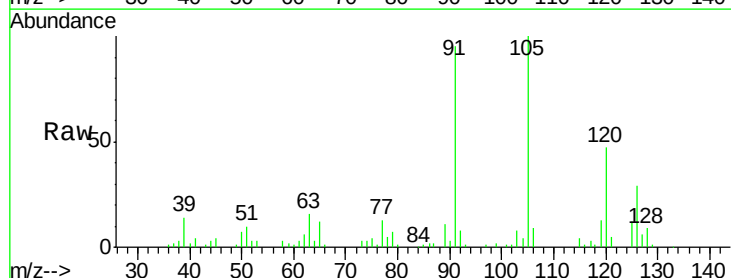
Acq: 30 Apr 2018 15:25

Tgt Ion:126 Resp: 13501

Ion Ratio Lower Upper

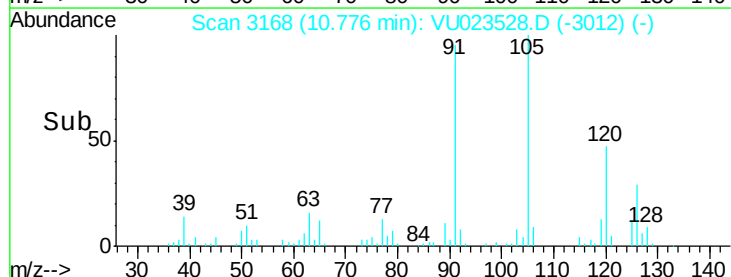
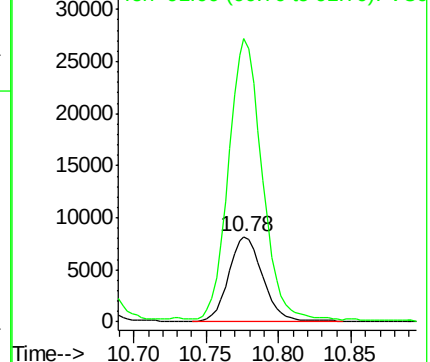
126 100

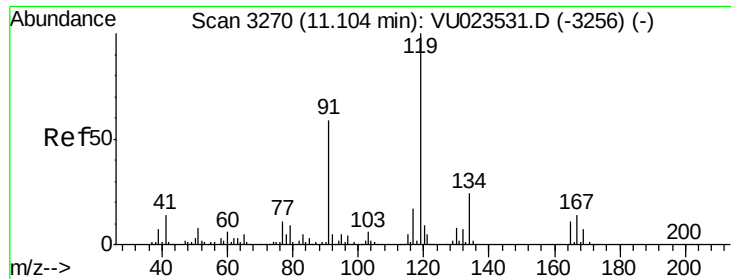
91 318.9 0.0 667.2



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#77

tert-Butylbenzene

Concen: 0.86 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. -0.00 min

Lab File: VU023528.D

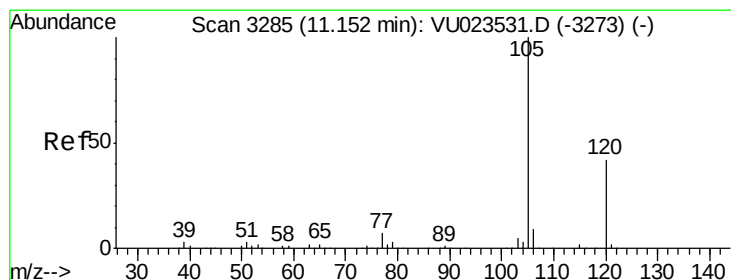
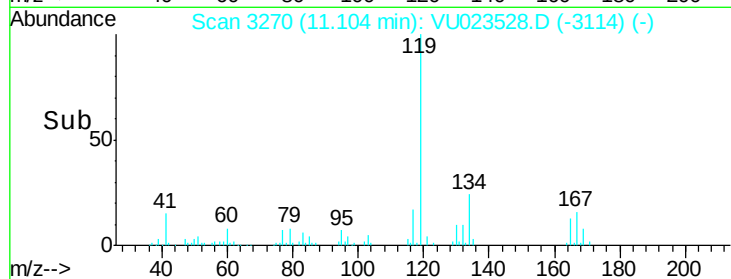
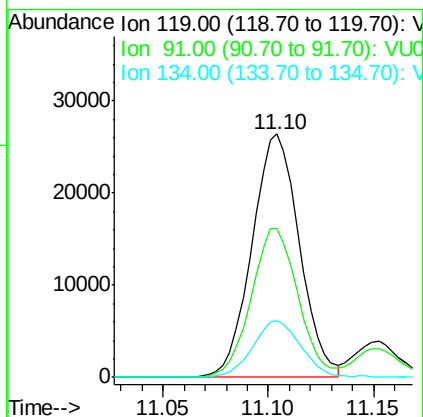
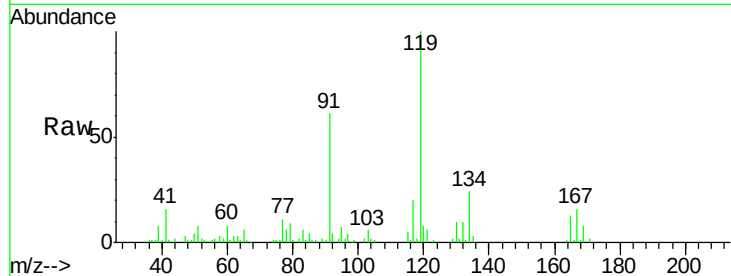
Acq: 30 Apr 2018 15:25

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.6	29.6	88.8
134	23.6	19.1	28.7

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



#78

1,2,4-Trimethylbenzene

Concen: 0.84 ug/l

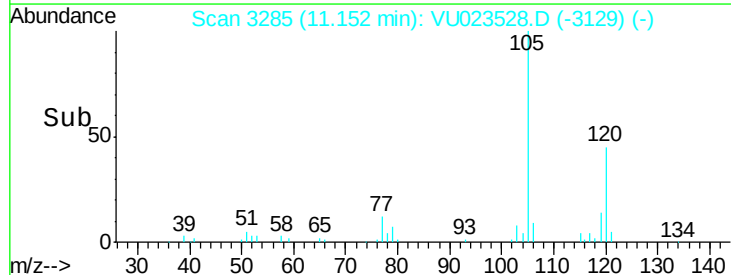
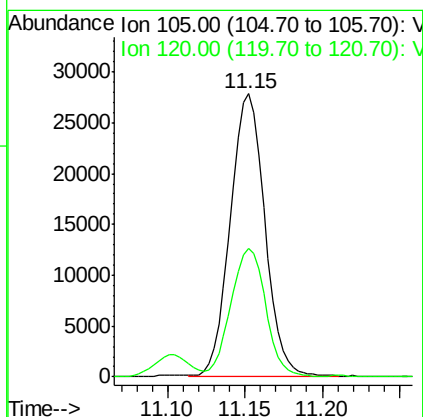
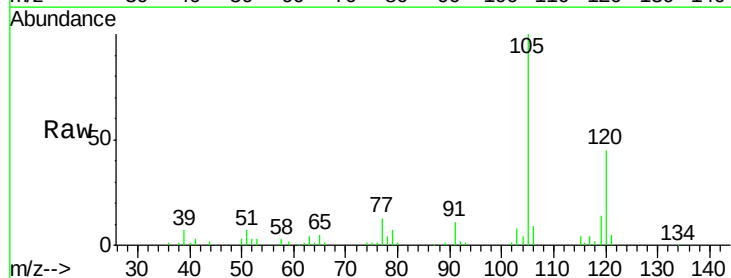
RT: 11.15 min Scan# 3285

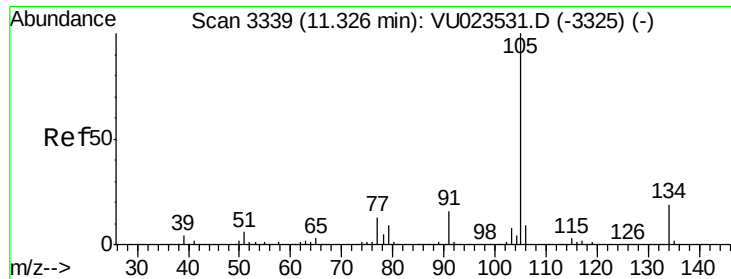
Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	23.1	69.3





#79

sec-Butylbenzene

Concen: 0.89 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 57966

Ion Ratio Lower Upper

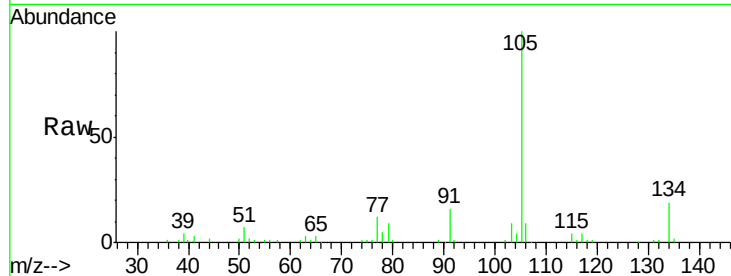
105 100

134 19.8 15.6 23.4

Manual Integrations
APPROVED

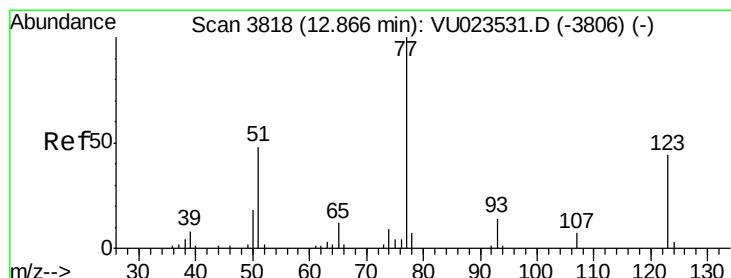
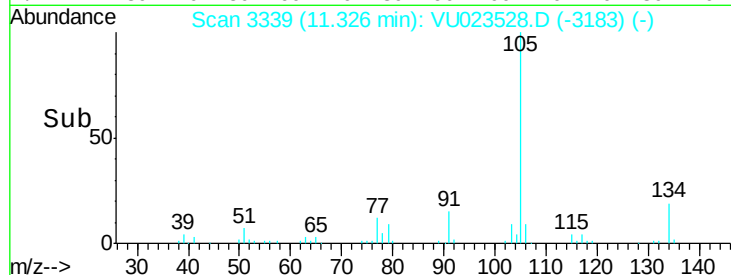
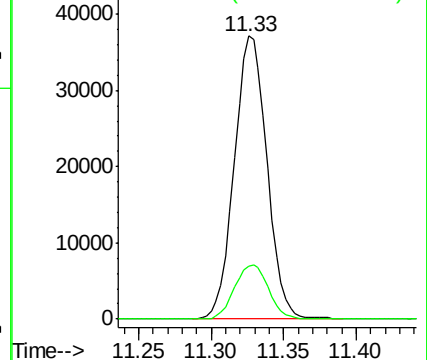
apatel

5/3/2018 4:39:03 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 6.56 ug/l

RT: 12.87 min Scan# 3820

Delta R.T. 0.01 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

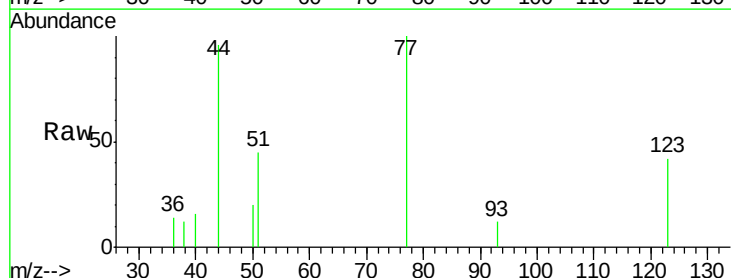
Tgt Ion: 77 Resp: 1827

Ion Ratio Lower Upper

77 100

123 37.2 19.4 68.6

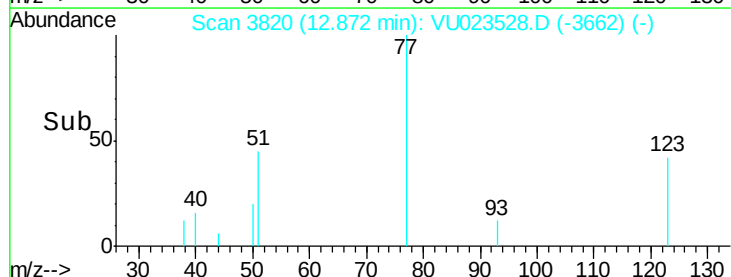
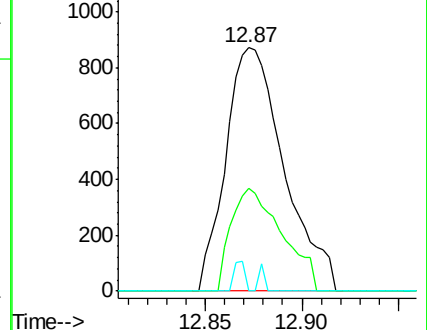
65 2.2 11.2 14.2#

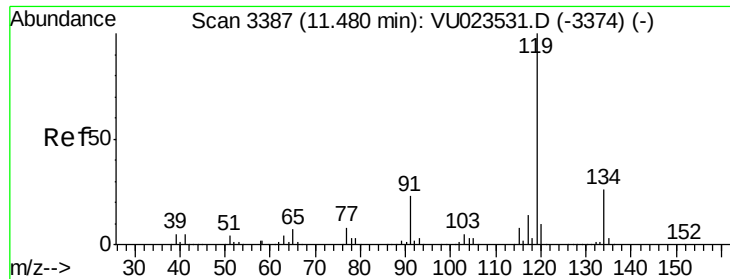


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0





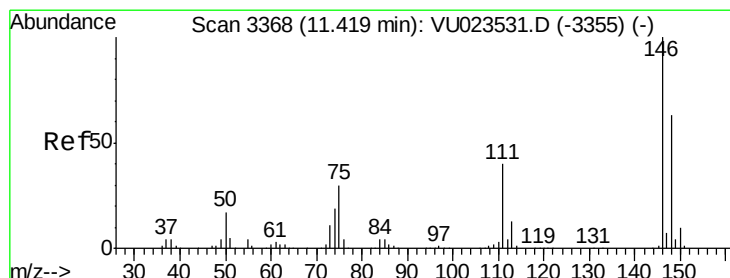
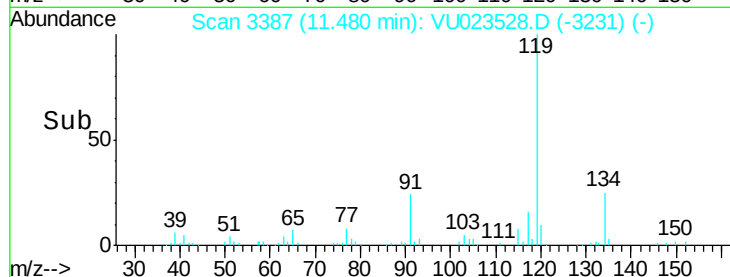
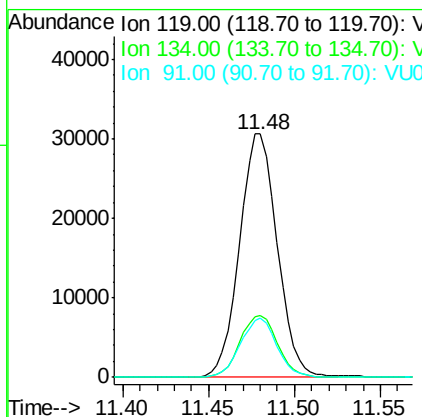
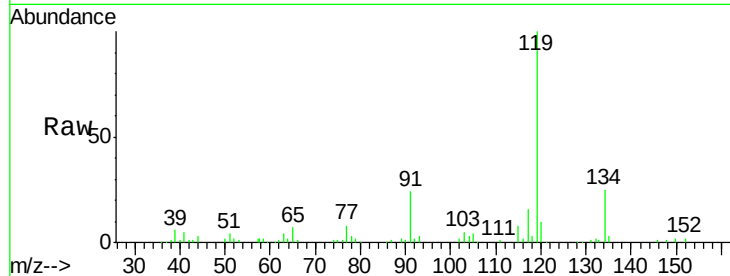
#81
 p-Isopropyltoluene
 Concen: 0.86 ug/l
 RT: 11.48 min Scan# 3387
 Delta R.T. -0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.9	31.3
91	23.5	18.2	27.2

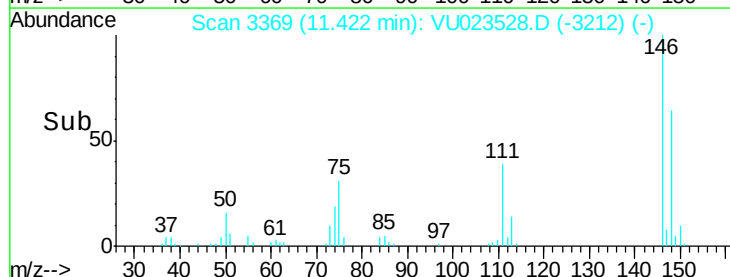
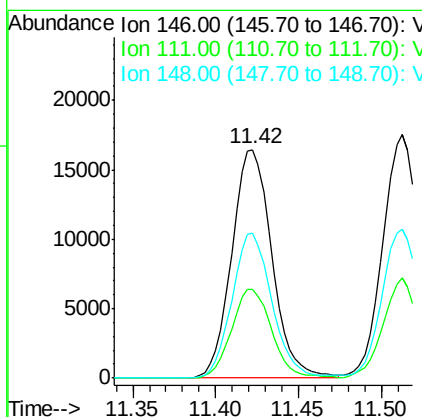
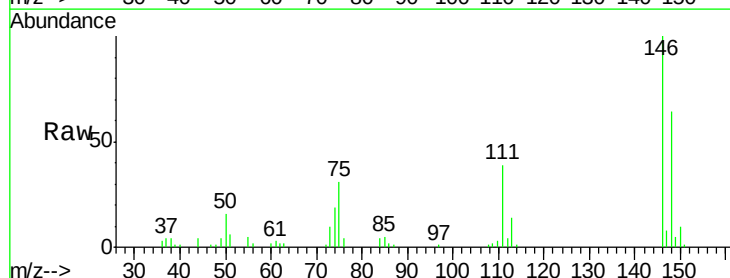
Manual Integrations
 APPROVED

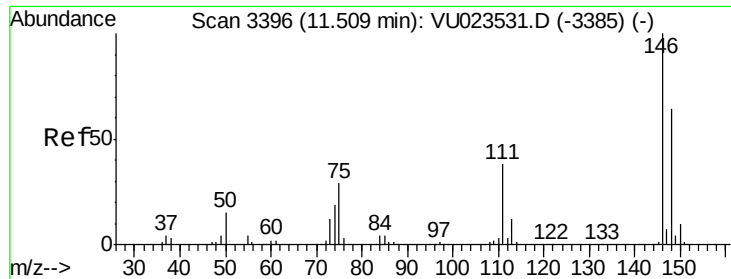
apatel
 5/3/2018 4:39:03 PM



#82
 1,3-Dichlorobenzene
 Concen: 0.90 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	31.8	47.6
148	63.0	51.0	76.4





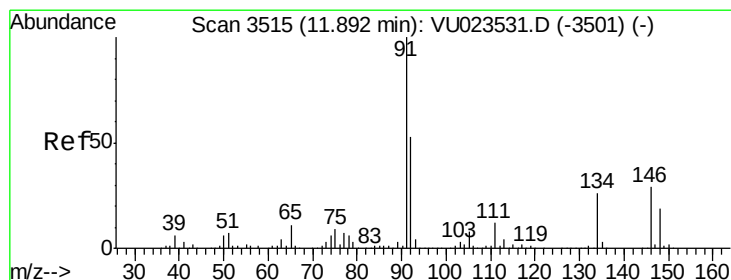
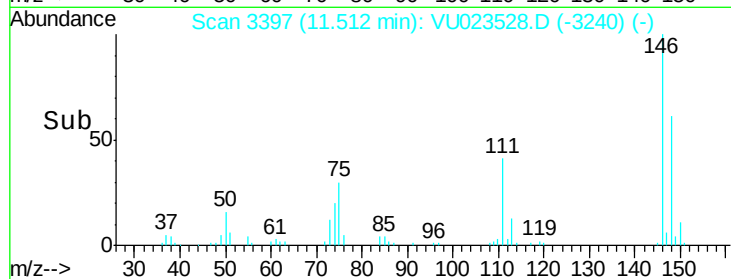
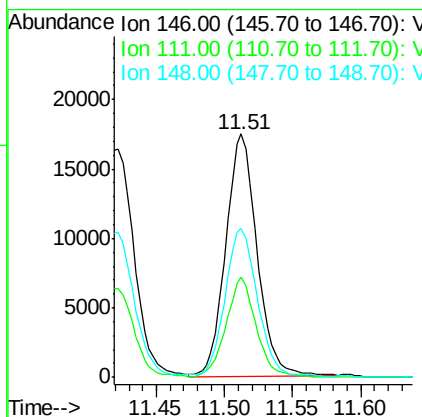
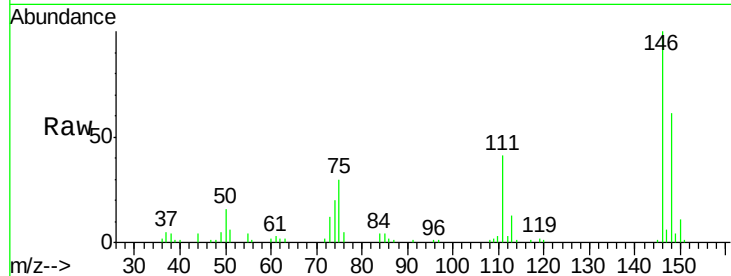
#83
 1,4-Dichlorobenzene
 Concen: 0.89 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	30.1	45.1
148	61.5	50.6	76.0

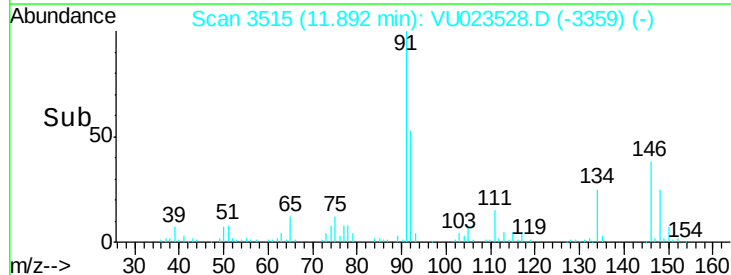
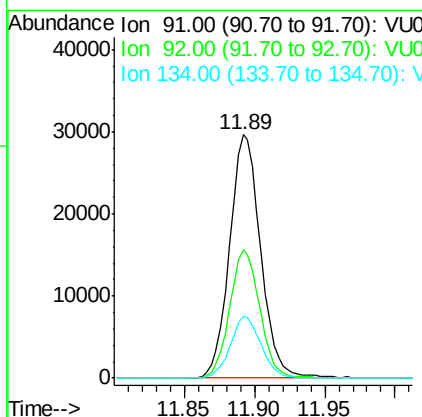
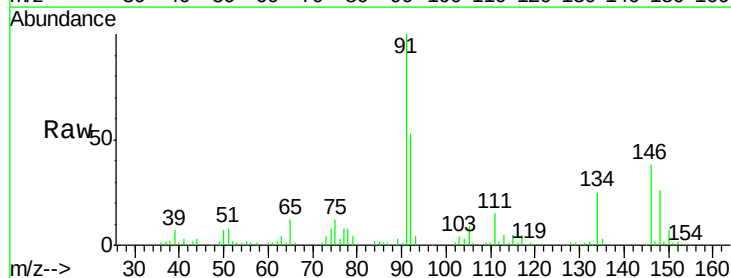
Manual Integrations
 APPROVED

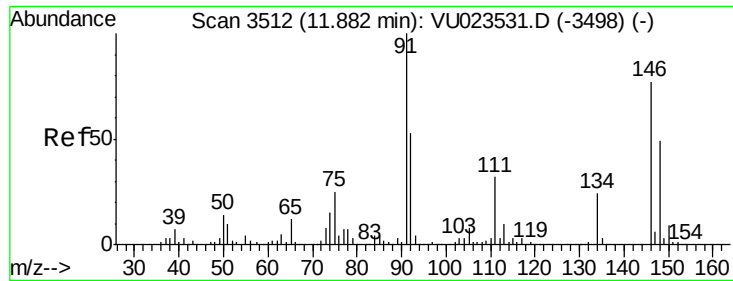
apatel
 5/3/2018 4:39:03 PM



#84
 n-Butylbenzene
 Concen: 0.89 ug/l
 RT: 11.89 min Scan# 3515
 Delta R.T. -0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.1	42.2	63.2
134	25.2	20.3	30.5





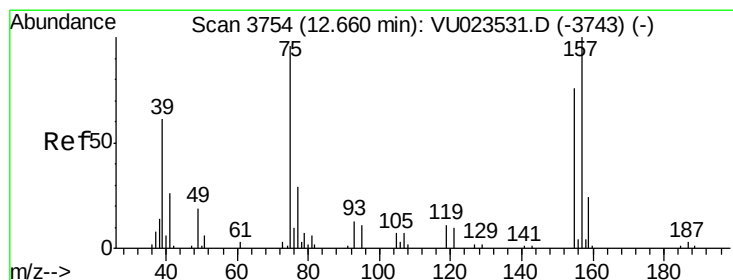
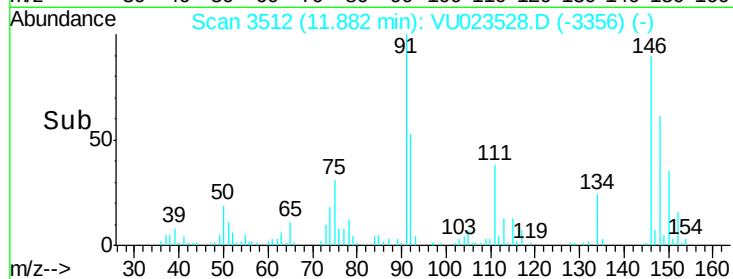
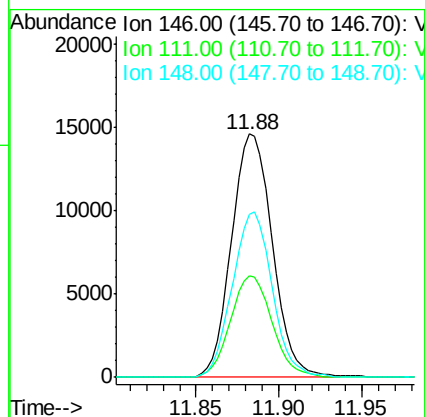
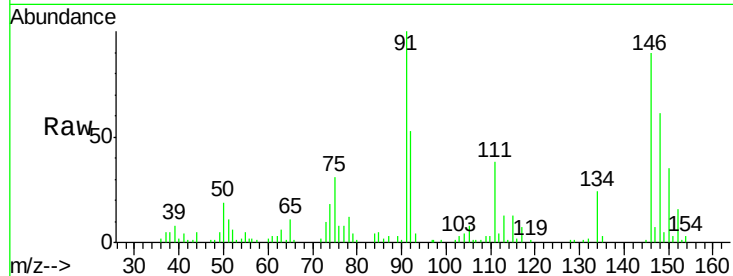
#85
 1,2-Dichlorobenzene
 Concen: 0.87 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.7	62.1
148	66.2	31.9	95.5

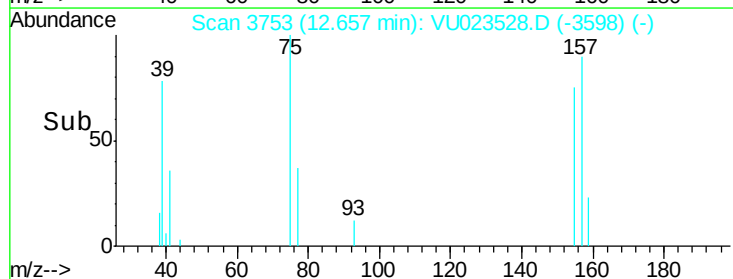
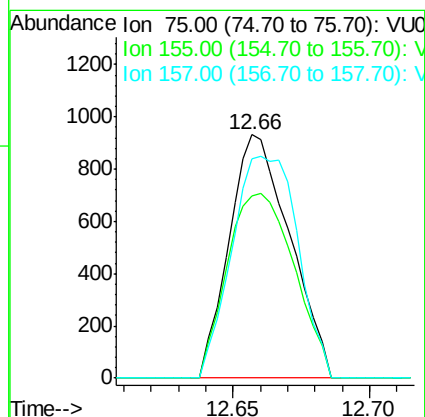
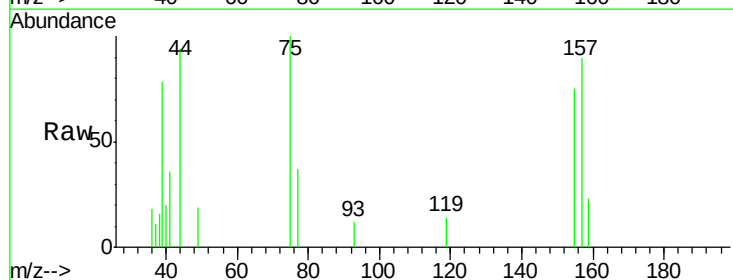
Manual Integrations
 APPROVED

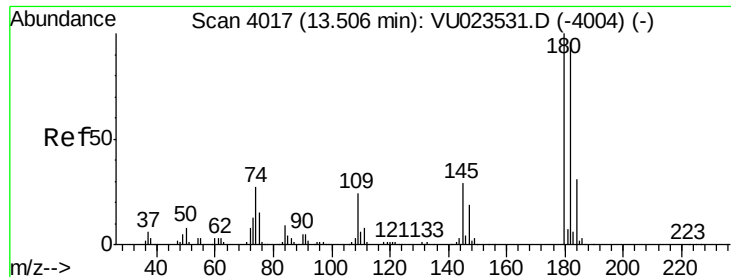
apatel
 5/3/2018 4:39:03 PM



#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.87 ug/l
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.8	65.8	98.6
157	98.8	83.5	125.3





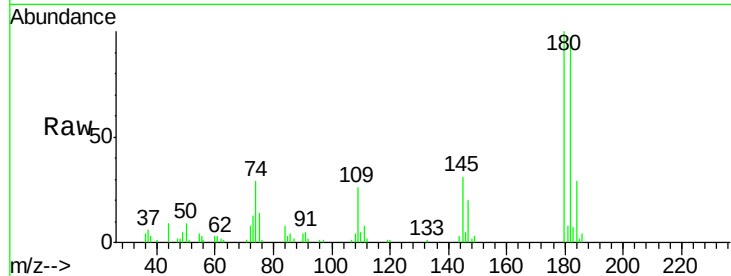
#87
 1,2,4-Trichlorobenzene
 Concen: 0.86 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC001

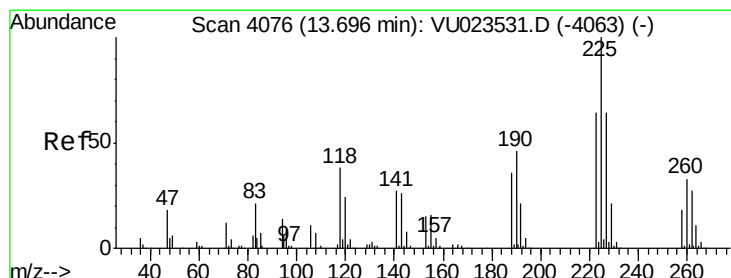
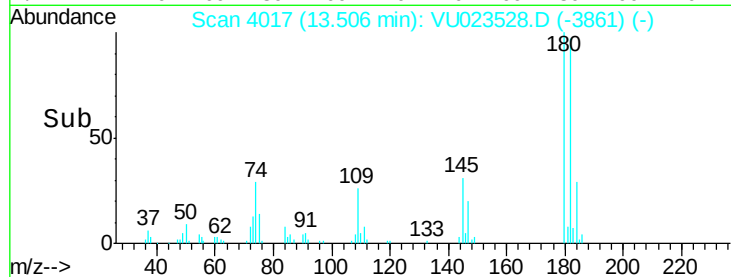
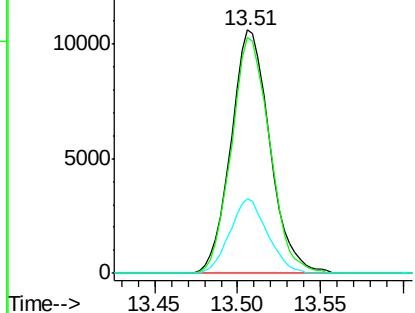
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.1	115.7
145	29.6	23.3	34.9

Manual Integrations
 APPROVED

apatel
 5/3/2018 4:39:03 PM

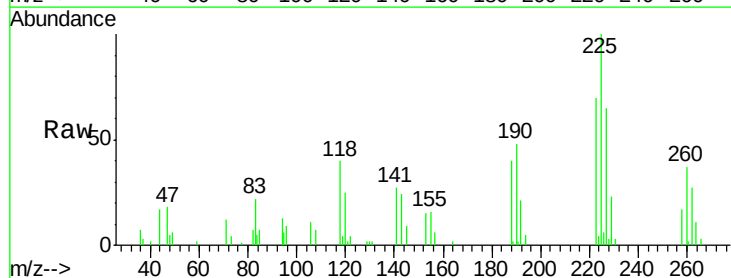


Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

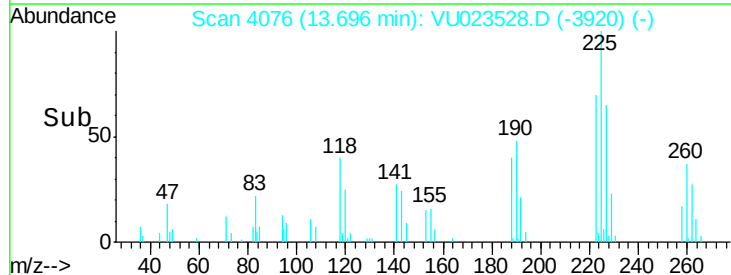
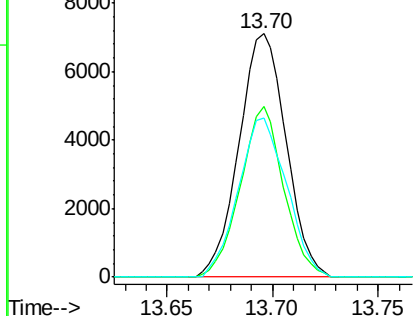


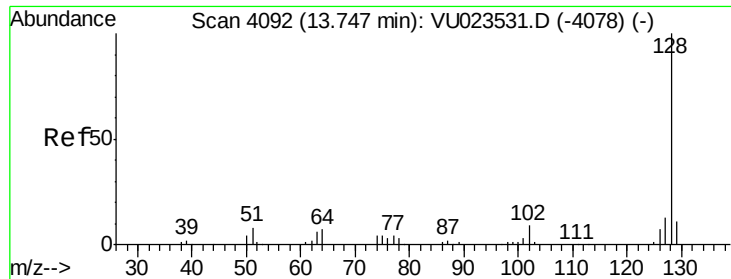
#88
 Hexachlorobutadiene
 Concen: 0.99 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. -0.00 min
 Lab File: VU023528.D
 Acq: 30 Apr 2018 15:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	50.6	75.8
227	66.6	51.8	77.6



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





#89

Naphthalene

Concen: 0.76 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Instrument :

MSVOA_U

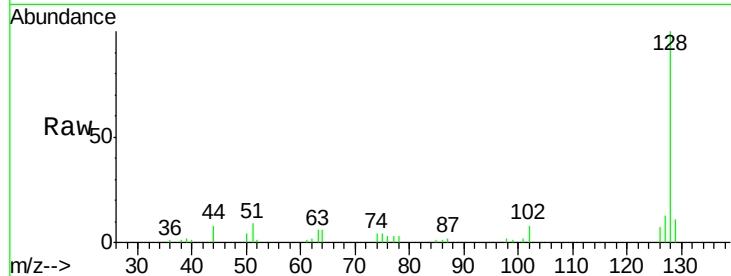
ClientSampleId :

VSTDIC001

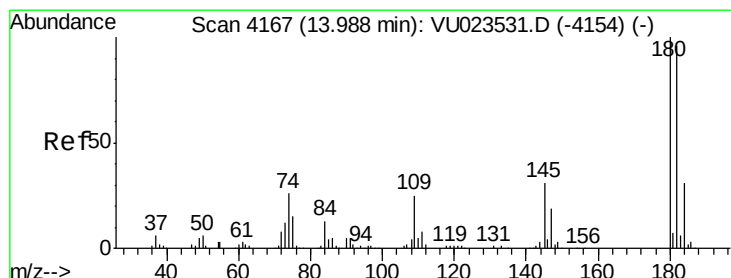
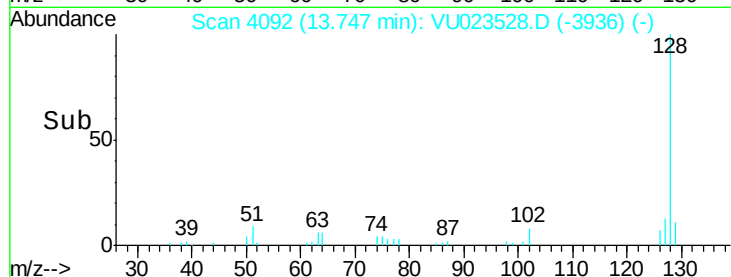
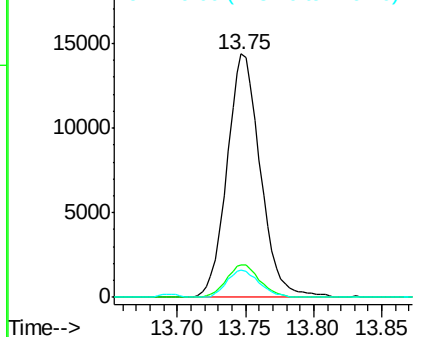
Tot Ion:	128	Resp:	24400
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.5	15.7
129	10.8	8.7	13.1

Manual Integrations
APPROVED

apatel
5/3/2018 4:39:03 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#90

1,2,3-Trichlorobenzene

Concen: 0.84 ug/l

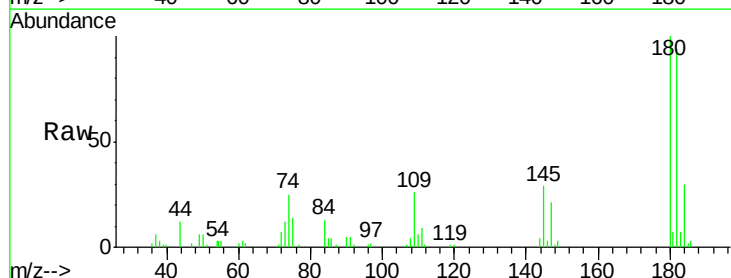
RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU023528.D

Acq: 30 Apr 2018 15:25

Tgt Ion:	180	Resp:	16193
Ion Ratio	Lower	Upper	
180	100		
182	95.5	76.8	115.2
145	30.1	24.6	36.8



Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.70 (181.40 to 182.40): V
Ion 144.80 (144.50 to 145.50): V

