

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU062718\
 Data File : VU024965.D
 Acq On : 27 Jun 2018 14:39
 Operator : MD/SY
 Sample : VU0627MBSD03
 Misc : 5.00µg/10mL/100µL/5.00ML/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Manual Integrations
 APPROVED

MMDadoda
 6/28/2018 4:37:02 PM

Quant Time: Jun 28 03:03:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	196328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	290805	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	271169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	158678	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	156606	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
35) Dibromofluoromethane	4.89	113	124889	51.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.50%	
50) Toluene-d8	7.57	98	421992	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
62) 4-Bromofluorobenzene	10.31	95	171977	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	43235	17.59	ug/l	99
3) Chloromethane	1.33	50	46071	18.35	ug/l	99
4) Vinyl Chloride	1.40	62	47857	18.48	ug/l	97
5) Bromomethane	1.63	94	30773	24.59	ug/l	97
6) Chloroethane	1.70	64	30855	20.71	ug/l	100
7) Trichlorofluoromethane	1.89	101	79996	20.25	ug/l	99
8) Diethyl Ether	2.10	74	29929	21.17	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.29	101	47908	19.54	ug/l	97
10) Methyl Iodide	2.41	142	46498	25.33	ug/l	97
11) Tert butyl alcohol	2.82	59	70324	90.22	ug/l	99
12) 1,1-Dichloroethene	2.29	96	44144	19.75	ug/l	95
13) Acrolein	2.19	56	20479	50.03	ug/l	99
14) Allyl chloride	2.60	41	76029	18.32	ug/l	97
15) Acrylonitrile	2.94	53	151633	99.98	ug/l	98
16) Acetone	2.32	43	176336	102.40	ug/l	98
17) Carbon Disulfide	2.48	76	123285	17.22	ug/l	98
18) Methyl Acetate	2.62	43	85829	23.25	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	173691	20.67	ug/l	97
20) Methylene Chloride	2.71	84	54452	20.15	ug/l	96
21) trans-1,2-Dichloroethene	2.99	96	48709	19.78	ug/l	99
22) Diisopropyl ether	3.57	45	163984	19.93	ug/l	93
23) Vinyl Acetate	3.53	43	702799	95.35	ug/l	98
24) 1,1-Dichloroethane	3.45	63	95941	20.27	ug/l	98
25) 2-Butanone	4.26	43	231351	100.02	ug/l	99
26) 2,2-Dichloropropane	4.23	77	92333	20.54	ug/l	97
27) cis-1,2-Dichloroethene	4.23	96	58362	20.62	ug/l	99
28) Bromochloromethane	4.55	49	38846	18.63	ug/l	86
29) Tetrahydrofuran	4.64	42	137778	96.18	ug/l	97
30) Chloroform	4.68	83	99445	20.76	ug/l	98
31) Cyclohexane	5.00	56	87218	19.55	ug/l	93
32) 1,1,1-Trichloroethane	4.92	97	91276	20.60	ug/l	96
36) 1,1-Dichloropropene	5.14	75	71005	20.78	ug/l	97
37) Ethyl Acetate	4.38	43	79619	21.38	ug/l #	96
38) Carbon Tetrachloride	5.14	117	79840	21.25	ug/l	97

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 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	89161	20.91	µg/l	96
40) Benzene	5.39	78	208659	21.43	µg/l	100
41) Methacrylonitrile	4.54	41	44329	22.08	µg/l	99
42) 1,2-Dichloroethane	5.41	62	87036	23.47	µg/l	98
43) Isopropyl Acetate	5.55	43	128377	19.94	µg/l	99
44) Trichloroethene	6.19	130	58068	20.95	µg/l	95
45) 1,2-Dichloropropane	6.44	63	55599	21.40	µg/l	100
46) Dibromomethane	6.56	93	40144	22.00	µg/l	95
47) Bromodichloromethane	6.76	83	74831	20.59	µg/l	98
48) Methyl methacrylate	6.62	41	68004	21.69	µg/l	98
49) 1,4-Dioxane	6.62	88	26818	437.44	µg/l	98
51) 4-Methyl-2-Pentanone	7.46	43	419906	103.82	µg/l	99
52) Toluene	7.64	92	134917	21.54	µg/l	99
53) t-1,3-Dichloropropene	7.88	75	81768	20.04	µg/l	99
54) cis-1,3-Dichloropropene	7.27	75	87063	20.02	µg/l	99
55) 1,1,2-Trichloroethane	8.07	97	55055	21.62	µg/l	96
56) Ethyl methacrylate	8.02	69	85336	20.02	µg/l	97
57) 1,3-Dichloropropane	8.25	76	91925	21.40	µg/l	98
58) 2-Chloroethyl Vinyl ether	7.13	63	18614	11.40	µg/l	95
59) 2-Hexanone	8.36	43	339330	102.76	µg/l	99
60) Dibromochloromethane	8.48	129	60904	19.18	µg/l	99
61) 1,2-Dibromoethane	8.59	107	58967	20.80	µg/l	97
64) Tetrachloroethene	8.23	164	52628	20.42	µg/l	99
65) Chlorobenzene	9.12	112	150323	21.70	µg/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	57345	21.79	µg/l	98
67) Ethyl Benzene	9.25	91	262717	21.63	µg/l	100
68) m/p-Xylenes	9.38	106	203414	43.62	µg/l	98
69) o-Xylene	9.78	106	101078	21.90	µg/l	98
70) Styrene	9.80	104	158388	20.88	µg/l	99
71) Bromoform	9.96	173	46866	18.73	µg/l #	100
73) Isopropylbenzene	10.17	105	271499	22.29	µg/l	99
74) N-amyl acetate	10.01	43	111646	19.27	µg/l	97
75) 1,1,2,2-Tetrachloroethane	10.46	83	87823	21.51	µg/l	99
76) 1,2,3-Trichloropropane	10.50	75	80876m	23.15	µg/l	
77) Bromobenzene	10.45	156	67342	21.83	µg/l	96
78) n-propylbenzene	10.59	91	305095	21.26	µg/l	97
79) 2-Chlorotoluene	10.66	91	185448	21.91	µg/l	98
80) 1,3,5-Trimethylbenzene	10.78	105	232000	21.97	µg/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	28106m	18.62	µg/l	
82) 4-Chlorotoluene	10.78	91	209434	21.26	µg/l	99
83) tert-Butylbenzene	11.10	119	233156	22.95	µg/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	234263	21.77	µg/l	99
85) sec-Butylbenzene	11.33	105	275756	21.69	µg/l	97
86) p-Isopropyltoluene	11.48	119	245692	21.58	µg/l	99
87) 1,3-Dichlorobenzene	11.42	146	122130	21.43	µg/l	99
88) 1,4-Dichlorobenzene	11.51	146	123024	21.45	µg/l	99
89) n-Butylbenzene	11.89	91	196605	19.45	µg/l	97
90) Hexachloroethane	12.15	117	42339	19.06	µg/l	96
91) 1,2-Dichlorobenzene	11.88	146	125907	22.06	µg/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	22635	20.09	µg/l	94

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VU0627MBSD03

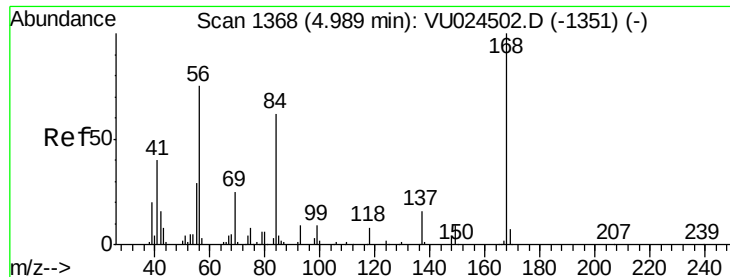
Manual Integrations
APPROVED

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6/28/2018 4:37:02 PM

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Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.51	180	78246	22.20	ug/l	99
94) Hexachlorobutadiene	13.70	225	43752	22.06	ug/l	99
95) Naphthalene	13.74	128	256963	22.40	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	83719	23.84	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion:168 Resp: 196328

Ion Ratio Lower Upper

168 100

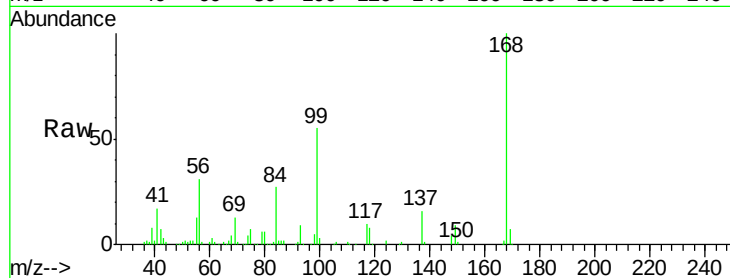
99 54.6 43.2 64.8

Manual Integrations

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6/28/2018 4:37:02 PM



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)

4.99

80000

60000

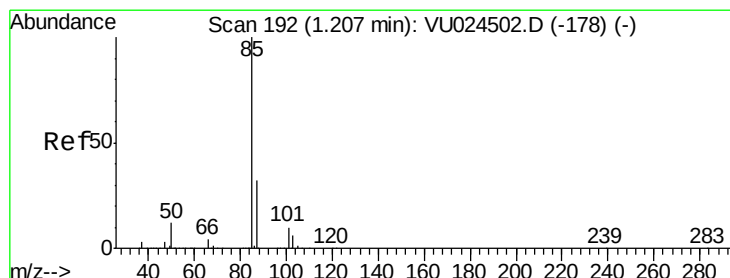
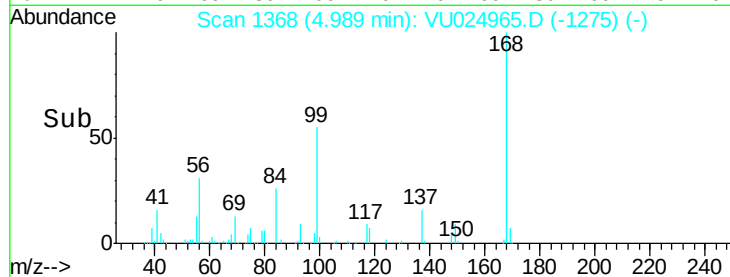
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 17.59 ug/l

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU024965.D

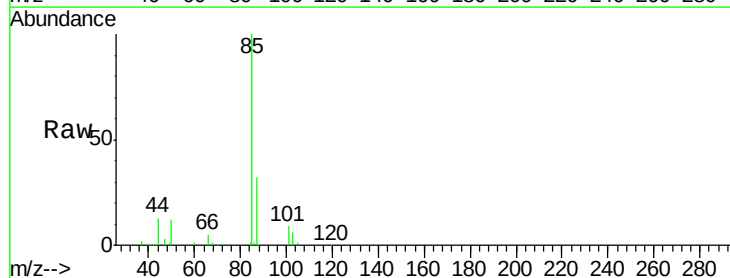
Acq: 27 Jun 2018 14:39

Tgt Ion: 85 Resp: 43235

Ion Ratio Lower Upper

85 100

87 31.7 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VU024502.D (-178) (-)

Ion 86.90 (86.60 to 87.60): VU024502.D (-178) (-)

1.20

50000

40000

30000

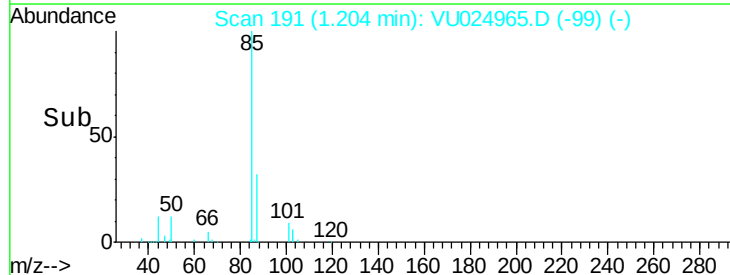
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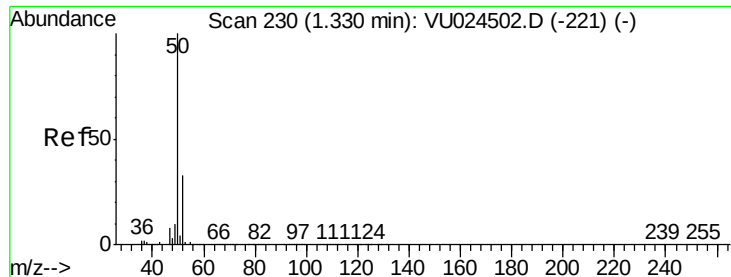
10000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 18.35 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBS03

Tot Ion: 50 Resp: 46071

Ion Ratio Lower Upper

50 100

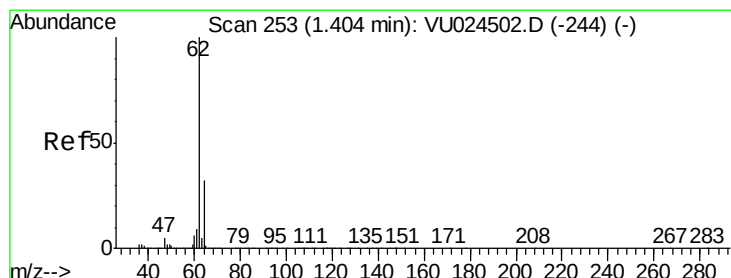
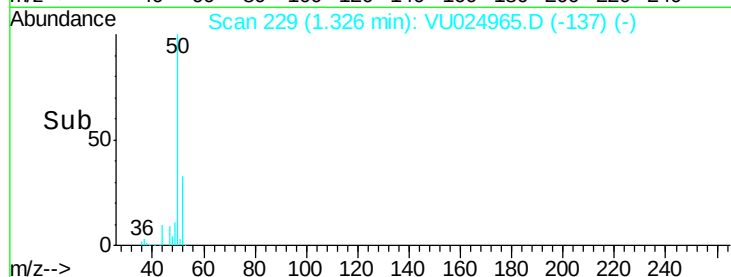
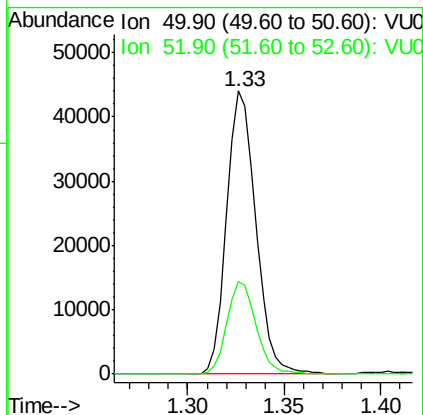
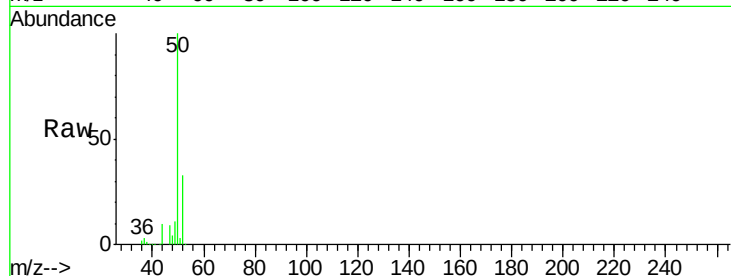
52 32.6 26.4 39.6

Manual Integrations

APPROVED

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6/28/2018 4:37:02 PM



#4

Vinyl Chloride

Concen: 18.48 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU024965.D

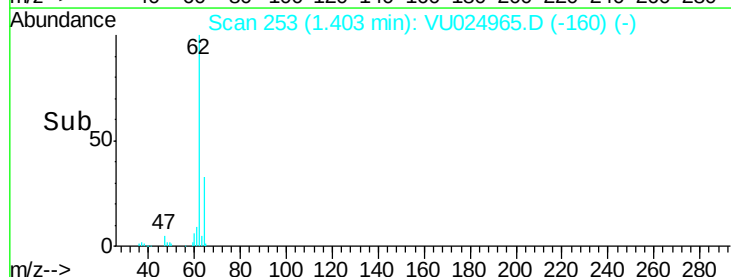
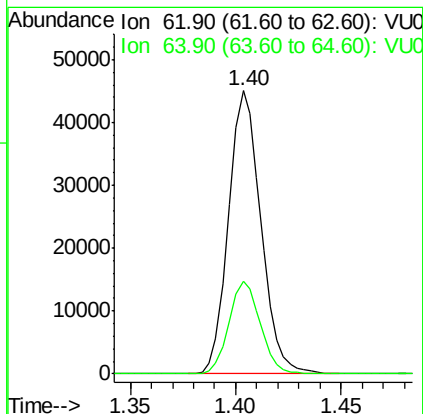
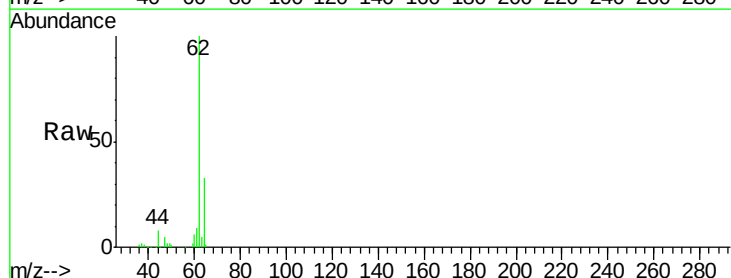
Acq: 27 Jun 2018 14:39

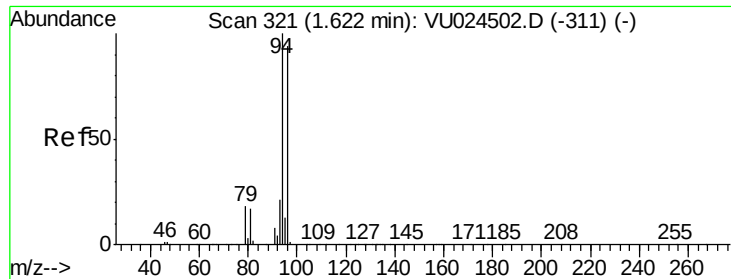
Tgt Ion: 62 Resp: 47857

Ion Ratio Lower Upper

62 100

64 32.7 24.8 37.2





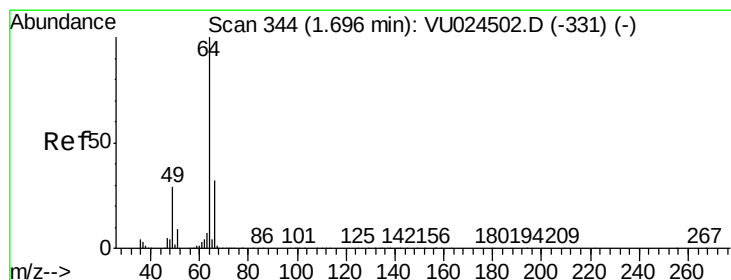
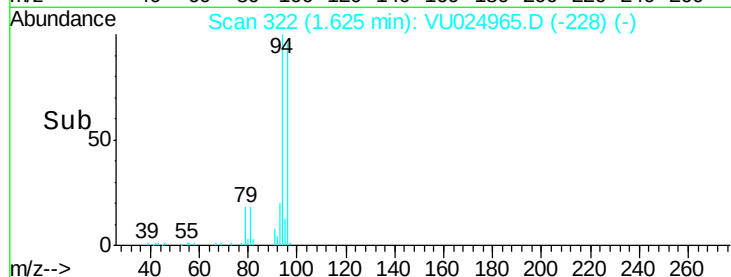
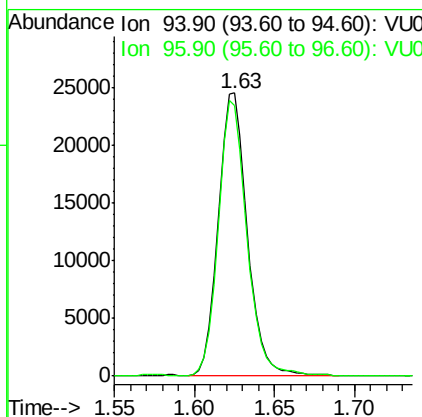
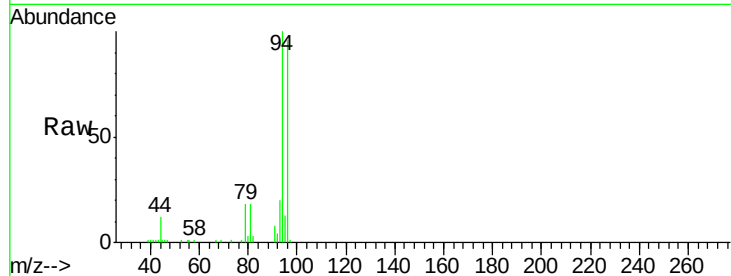
#5
Bromomethane
Concen: 24.59 ug/l
RT: 1.63 min Scan# 322
Delta R.T. 0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
94	100		
96	95.7	74.5	111.7

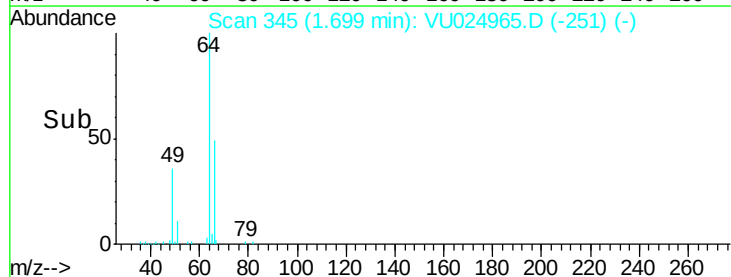
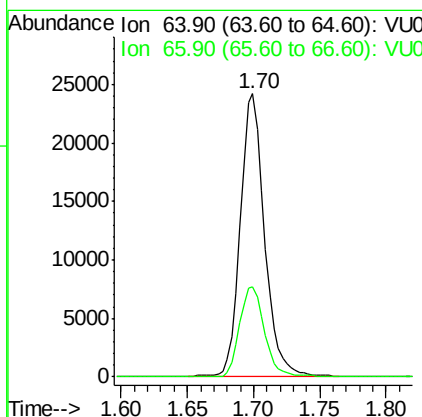
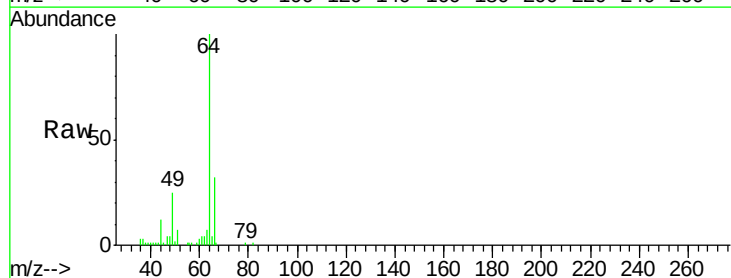
Manual Integrations
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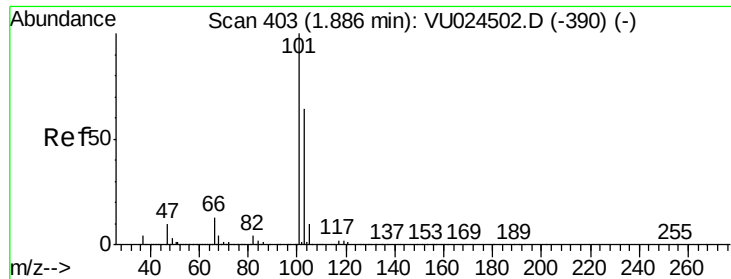
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#6
Chloroethane
Concen: 20.71 ug/l
RT: 1.70 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.5	38.3





#7

Trichlorofluoromethane

Concen: 20.25 ug/l

RT: 1.89 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion:101 Resp: 79996

Ion Ratio Lower Upper

101 100

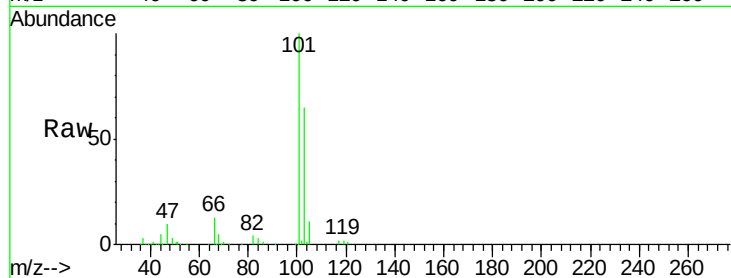
103 64.7 52.3 78.5

Manual Integrations

APPROVED

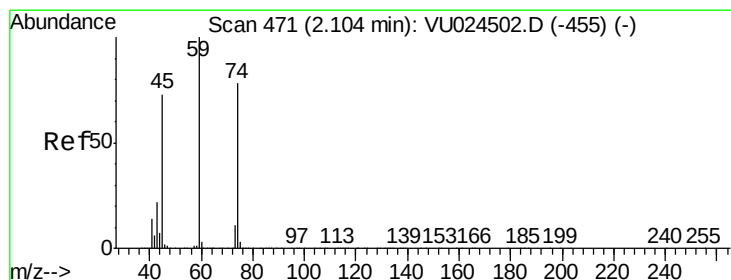
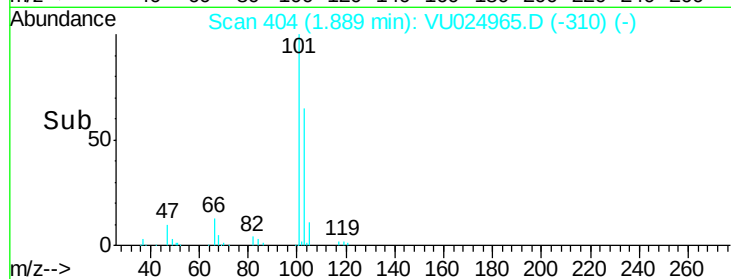
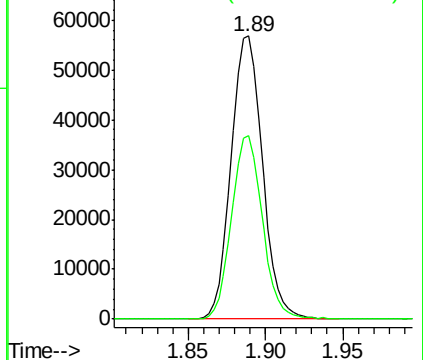
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6/28/2018 4:37:02 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 21.17 ug/l

RT: 2.10 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU024965.D

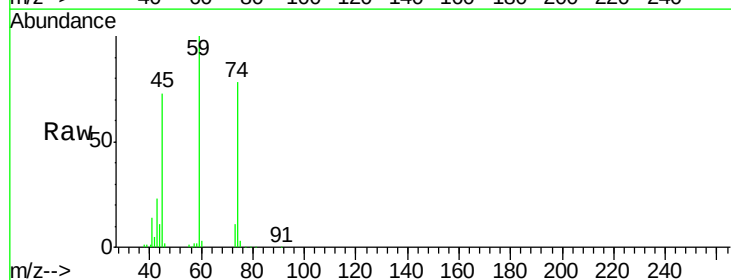
Acq: 27 Jun 2018 14:39

Tgt Ion: 74 Resp: 29929

Ion Ratio Lower Upper

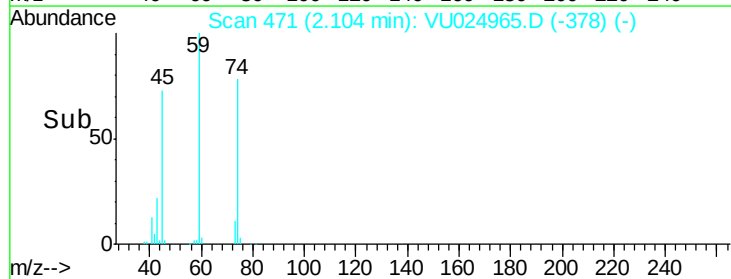
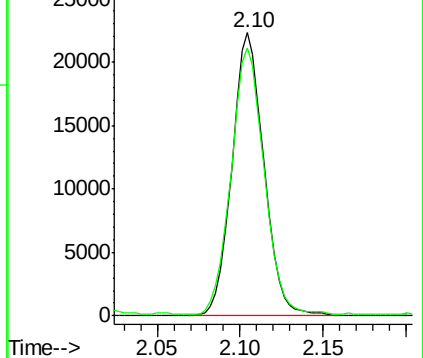
74 100

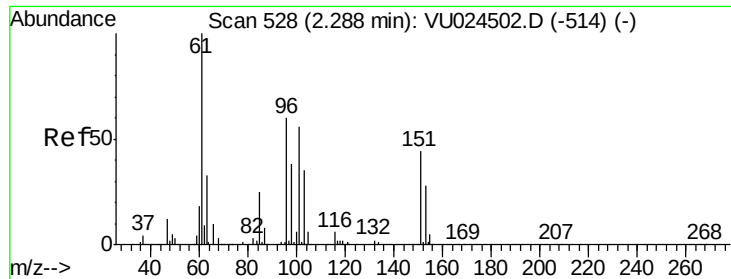
45 96.9 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.54 ug/l

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

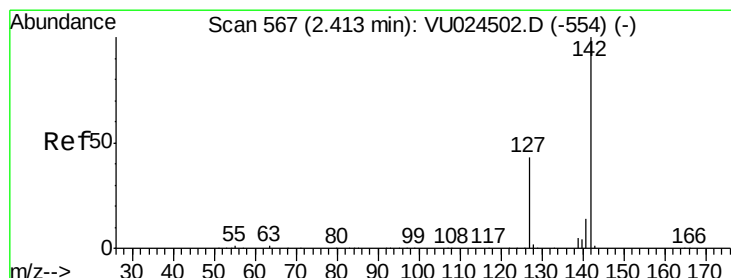
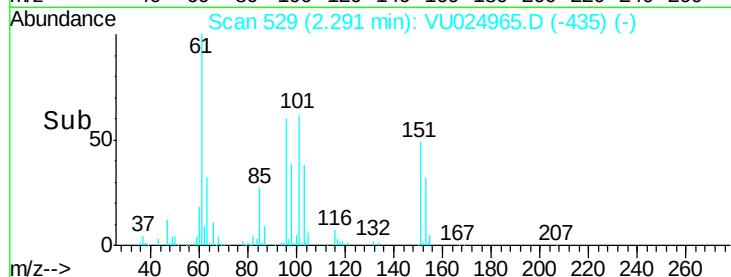
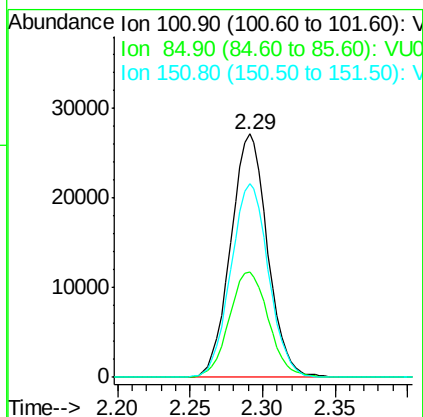
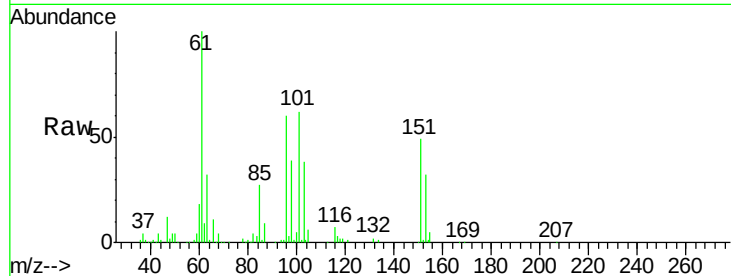
ClientSampleId :

VU0627MBSD03

Tot Ion:	101	Resp:	47908
Ion Ratio	Lower	Upper	
101	100		
85	46.2	36.0	54.0
151	81.5	62.3	93.5

Manual Integrations
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#10

Methyl Iodide

Concen: 25.33 ug/l

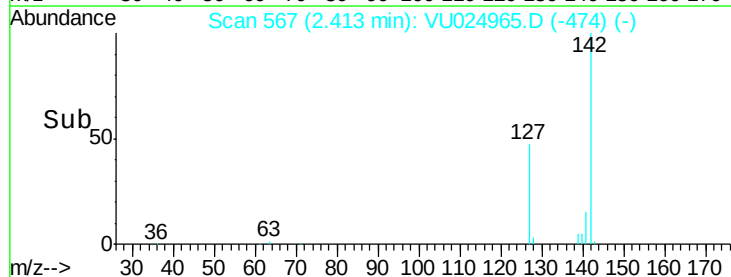
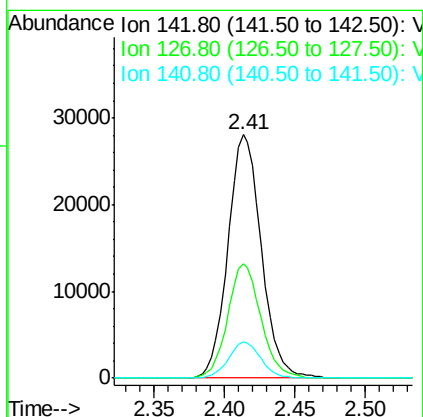
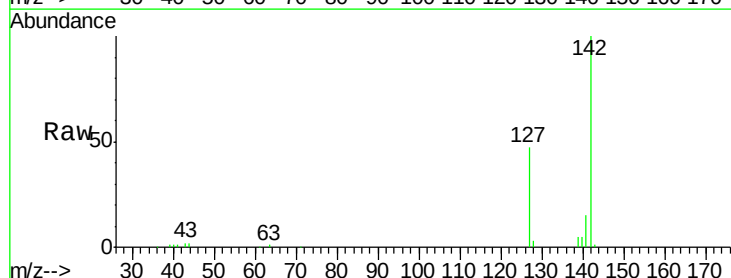
RT: 2.41 min Scan# 567

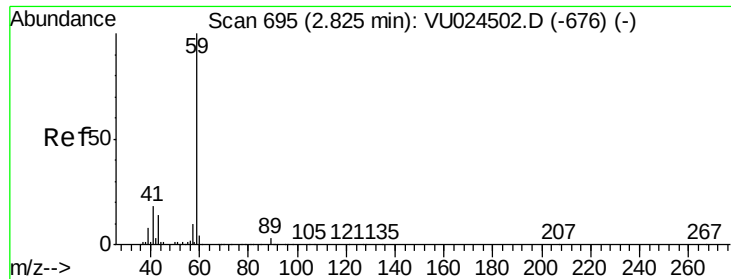
Delta R.T. 0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Tgt Ion:	142	Resp:	46498
Ion Ratio	Lower	Upper	
142	100		
127	46.5	35.6	53.4
141	14.3	11.7	17.5





#11

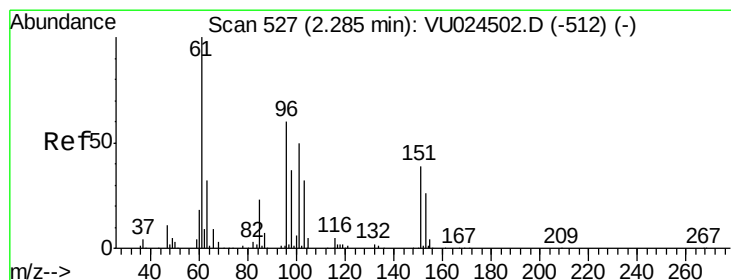
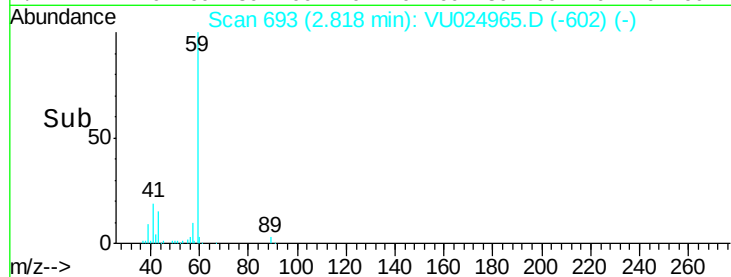
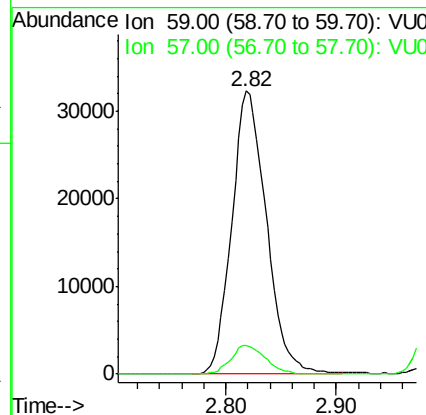
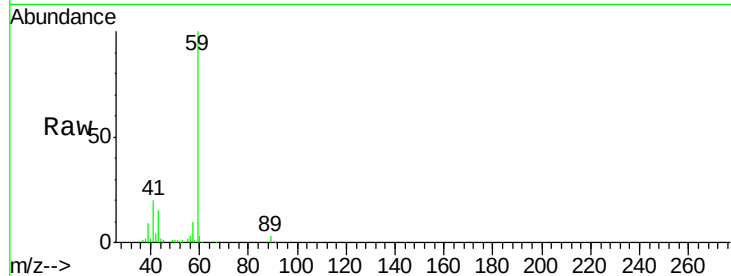
Tert butyl alcohol
Concen: 90.22 ug/l
RT: 2.82 min Scan# 693
Delta R.T. -0.01 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.5	12.7

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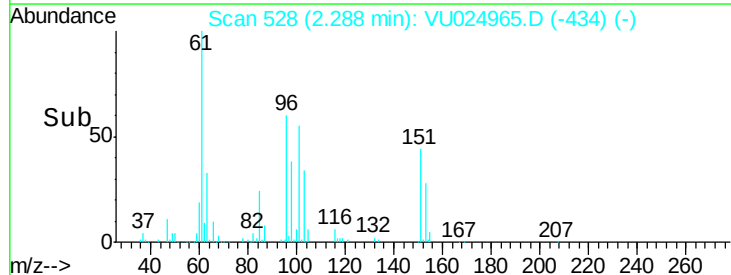
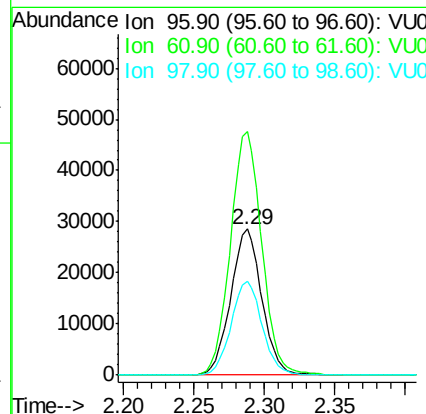
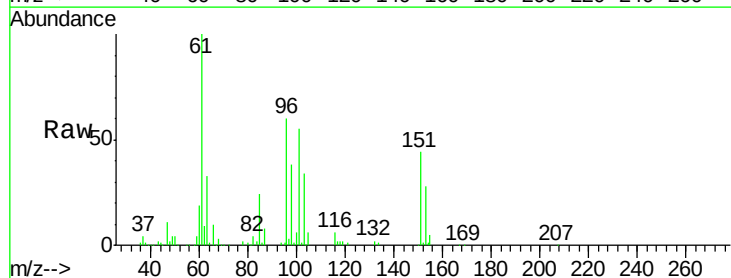
MMDadoda
6/28/2018 4:37:02 PM

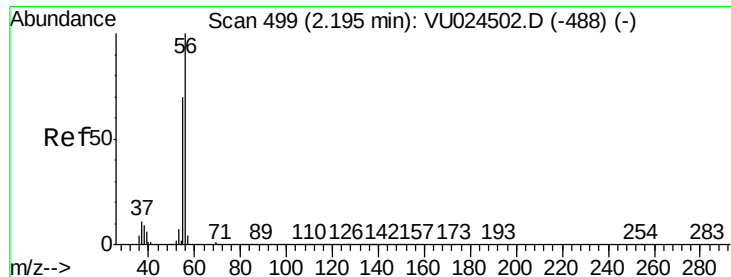


#12

1,1-Dichloroethene
Concen: 19.75 ug/l
RT: 2.29 min Scan# 528
Delta R.T. 0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.9	141.7	212.5
98	63.9	51.6	77.4





#13

Acrolein

Concen: 50.03 ug/l

RT: 2.19 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 56 Resp: 20479

Ion Ratio Lower Upper

56 100

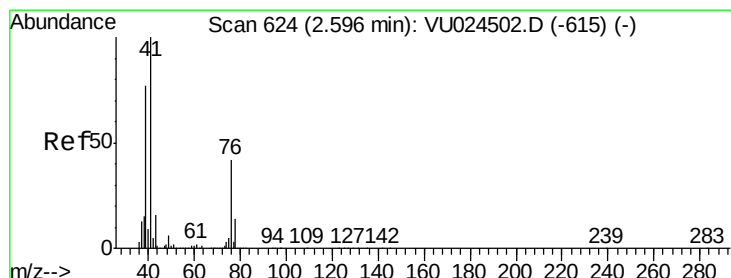
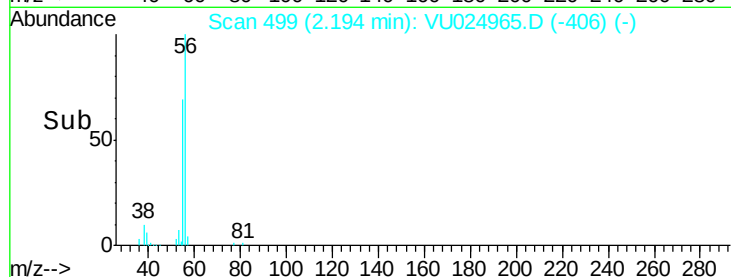
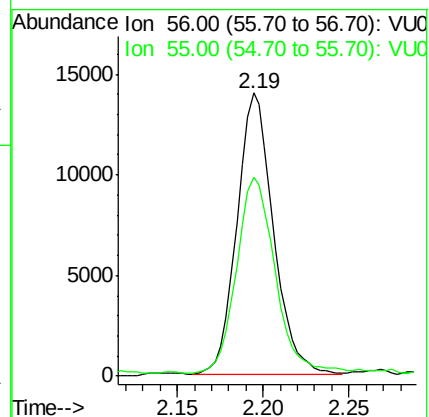
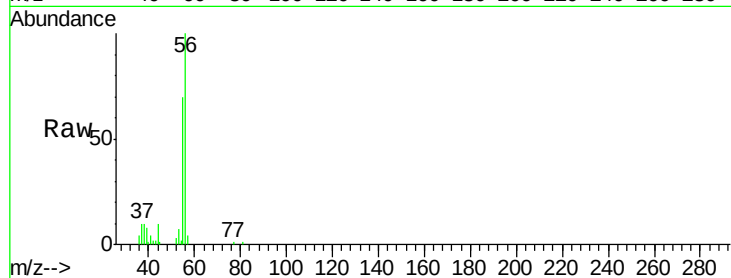
55 74.2 58.4 87.6

Manual Integrations

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#14

Allyl chloride

Concen: 18.32 ug/l

RT: 2.60 min Scan# 624

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

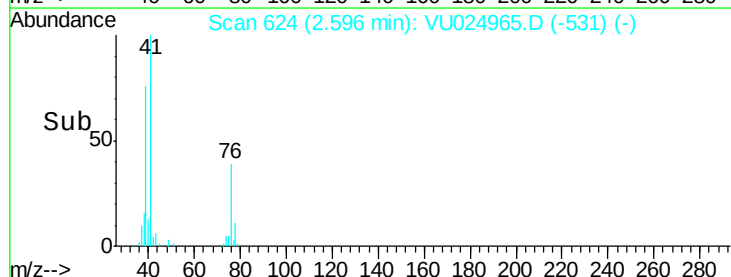
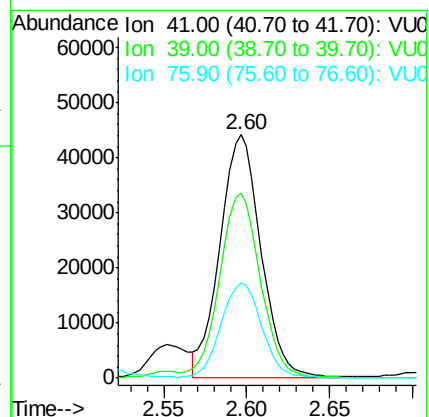
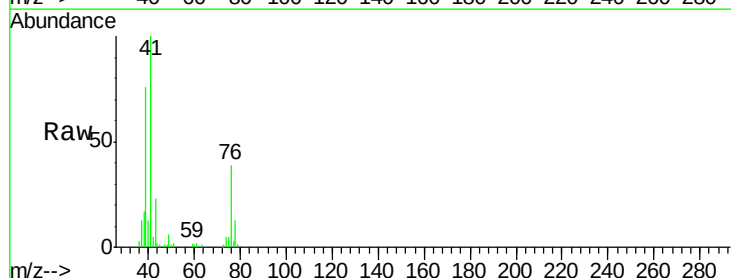
Tgt Ion: 41 Resp: 76029

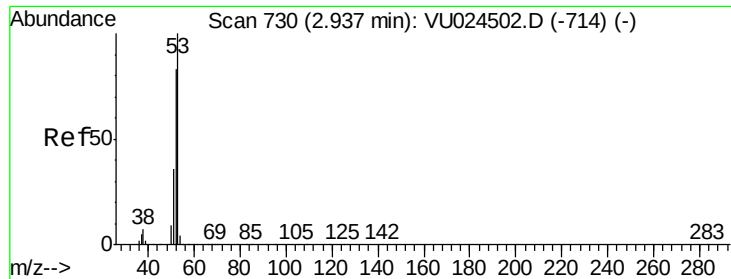
Ion Ratio Lower Upper

41 100

39 75.2 61.6 92.4

76 39.2 29.7 44.5





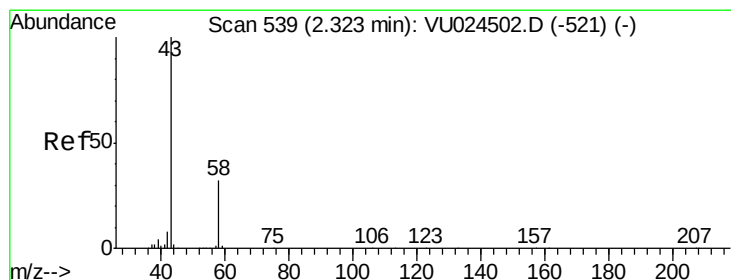
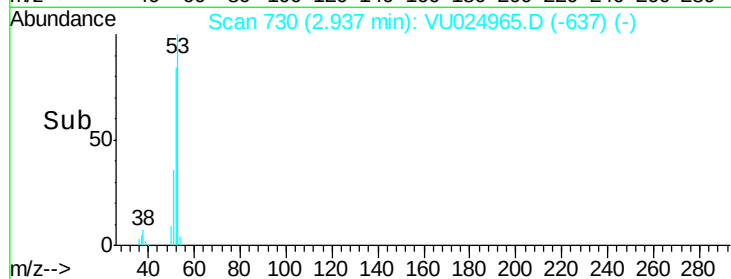
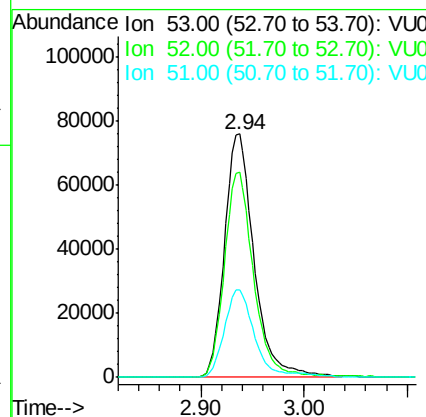
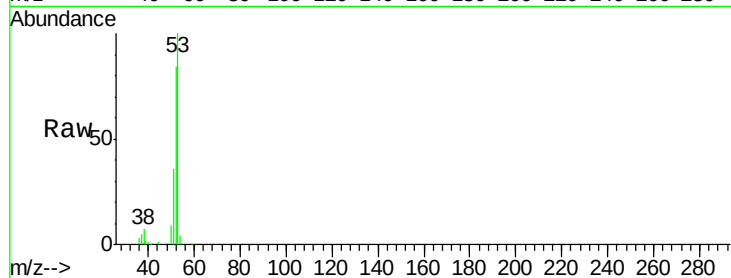
#15
 Acrylonitrile
 Concen: 99.98 ug/l
 RT: 2.94 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion:	53	Resp:	151633
Ion	Ratio	Lower	Upper
53	100		
52	83.1	67.1	100.7
51	37.3	28.4	42.6

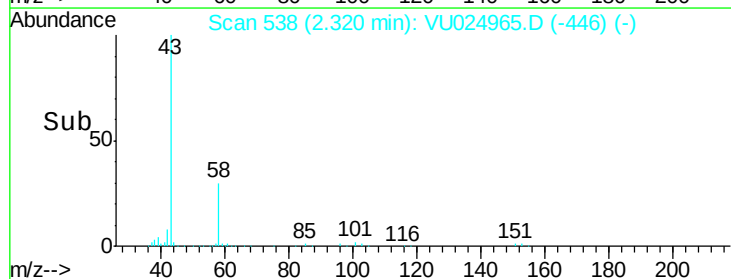
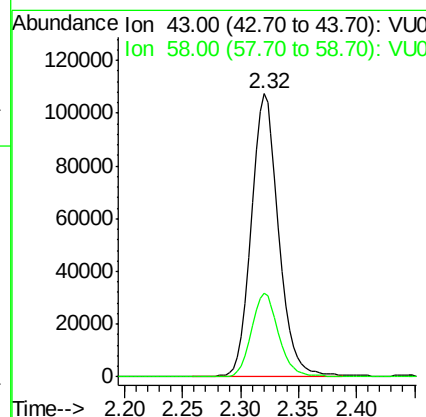
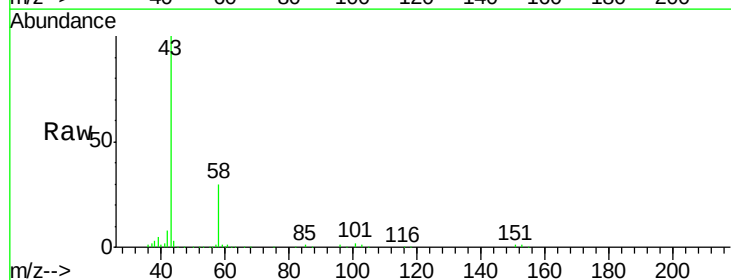
Manual Integrations
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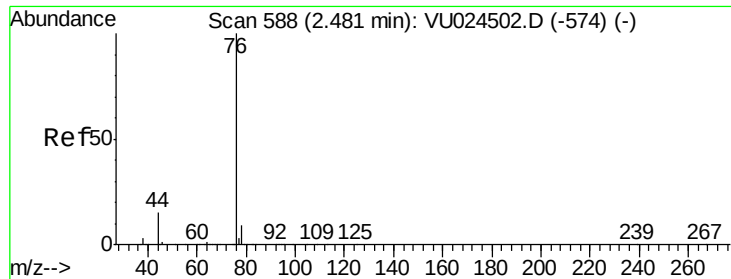
MMDadoda
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#16
 Acetone
 Concen: 102.40 ug/l
 RT: 2.32 min Scan# 538
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion:	43	Resp:	176336
Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.4	36.6





#17

Carbon Disulfide

Concen: 17.22 ug/l

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 76 Resp: 123285

Ion Ratio Lower Upper

76 100

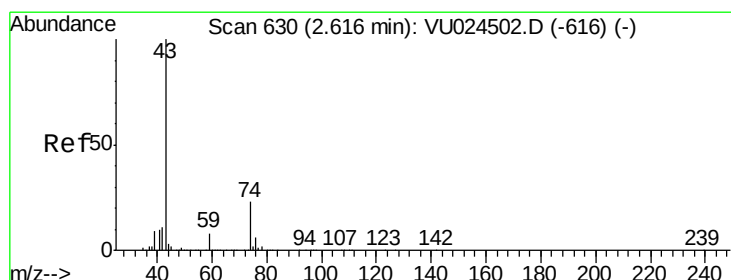
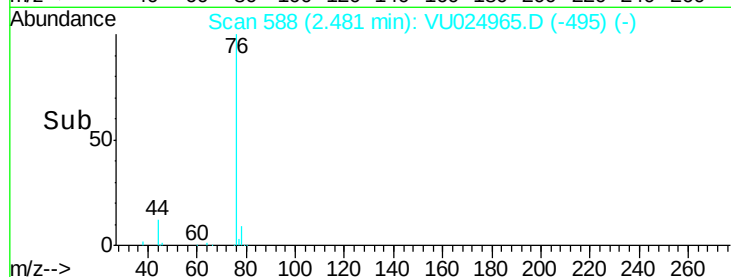
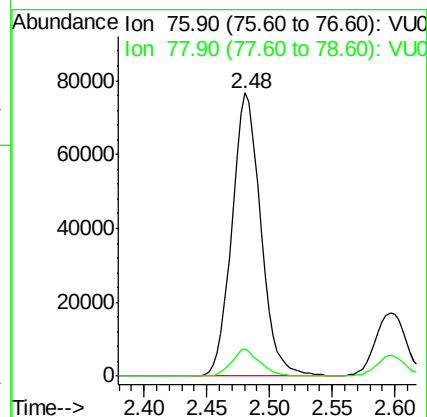
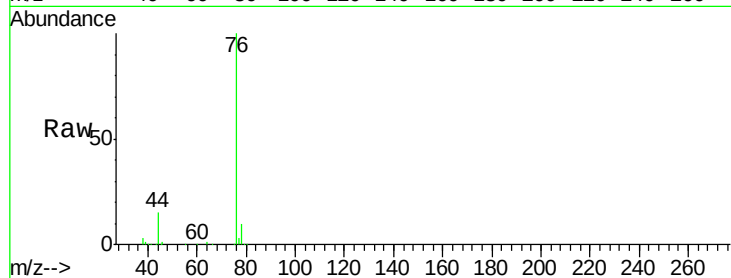
78 9.6 7.1 10.7

Manual Integrations

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#18

Methyl Acetate

Concen: 23.25 ug/l

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU024965.D

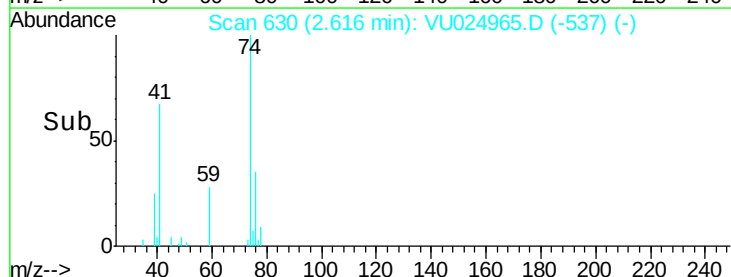
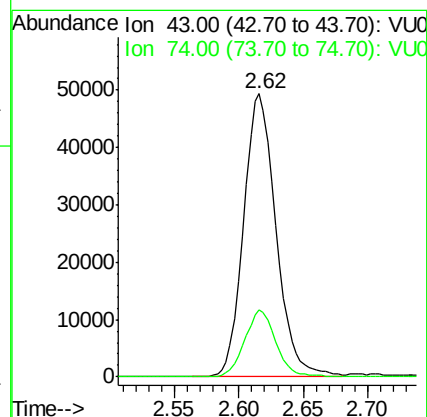
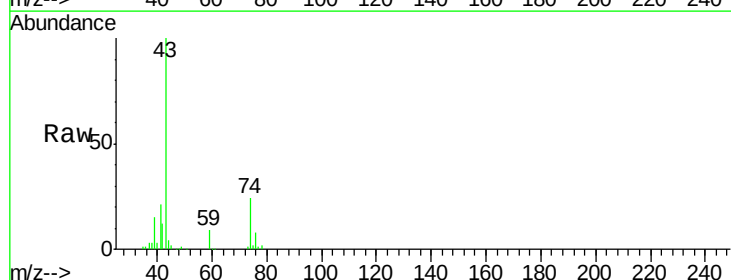
Acq: 27 Jun 2018 14:39

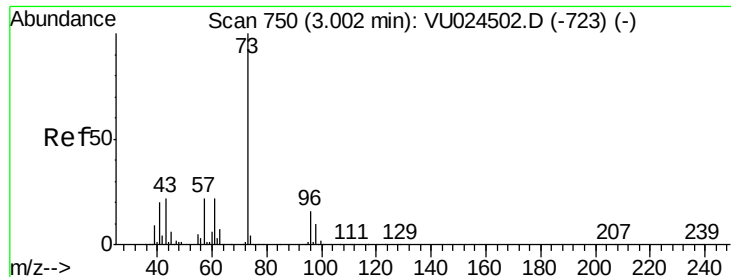
Tgt Ion: 43 Resp: 85829

Ion Ratio Lower Upper

43 100

74 23.1 18.0 27.0





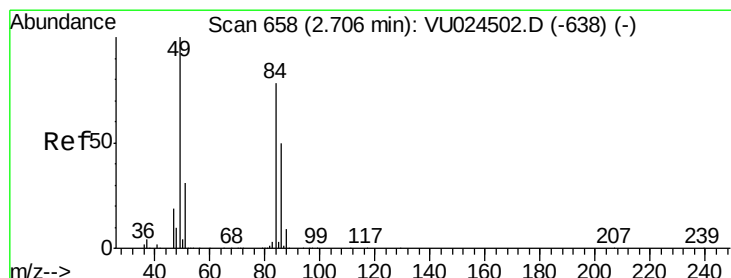
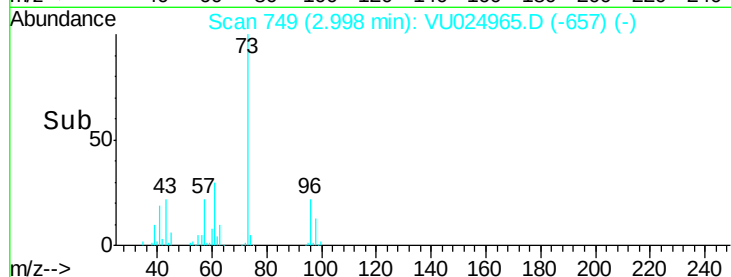
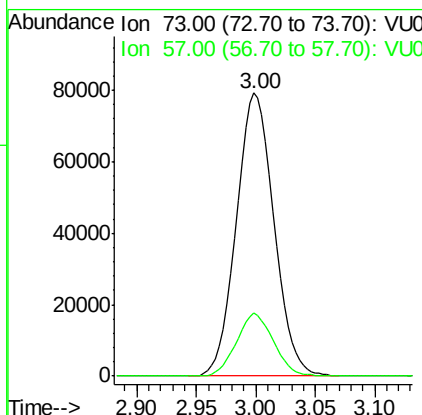
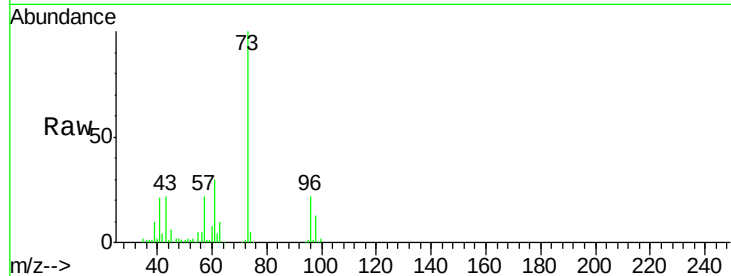
#19
Methyl tert-butyl Ether
Concen: 20.67 ug/l
RT: 3.00 min Scan# 749
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion: 73 Resp: 173691
Ion Ratio Lower Upper
73 100
57 22.2 18.8 28.2

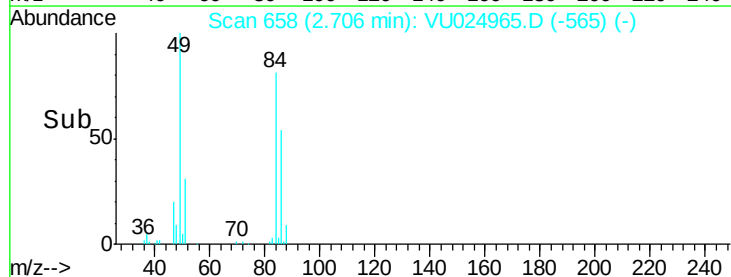
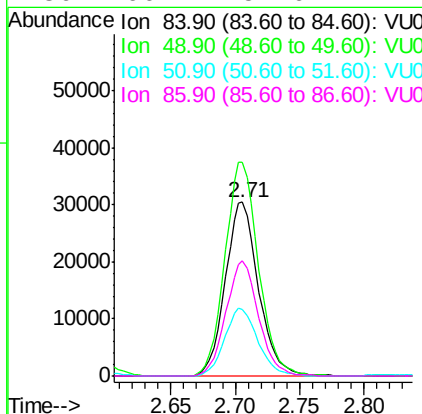
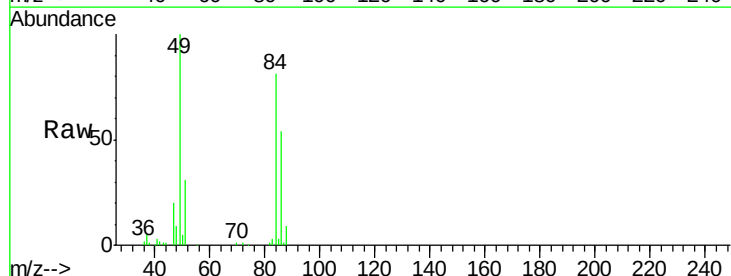
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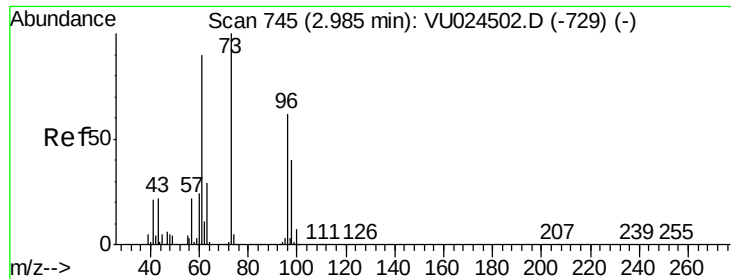
MMDadoda
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#20
Methylene Chloride
Concen: 20.15 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 84 Resp: 54452
Ion Ratio Lower Upper
84 100
49 122.9 103.8 155.8
51 38.2 32.0 48.0
86 66.1 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 19.78 ug/l

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

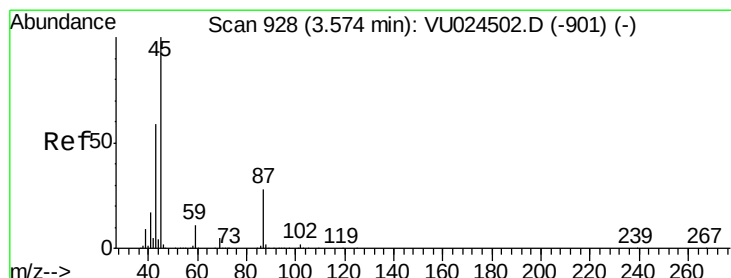
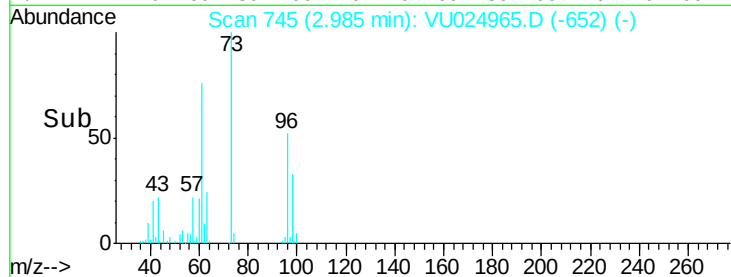
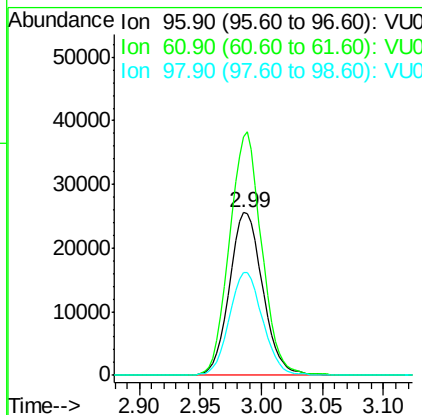
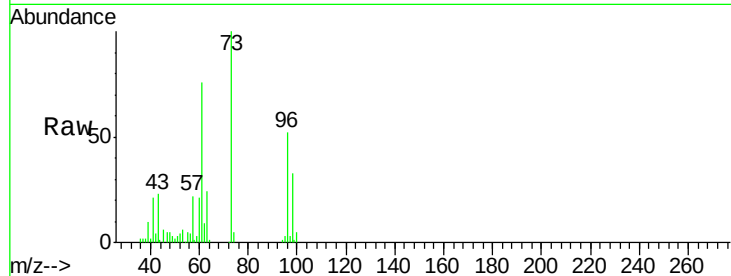
ClientSampleId :

VU0627MBSD03

Tot Ion:	96	Resp:	48709
Ion	Ratio	Lower	Upper
96	100		
61	147.0	119.4	179.0
98	63.1	51.1	76.7

Manual Integrations
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#22

Diisopropyl ether

Concen: 19.93 ug/l

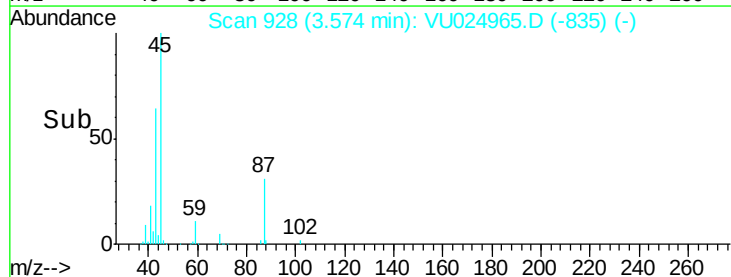
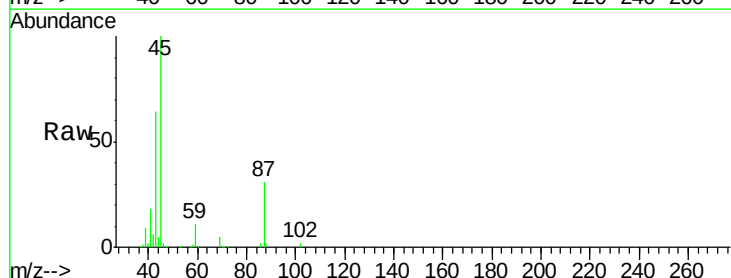
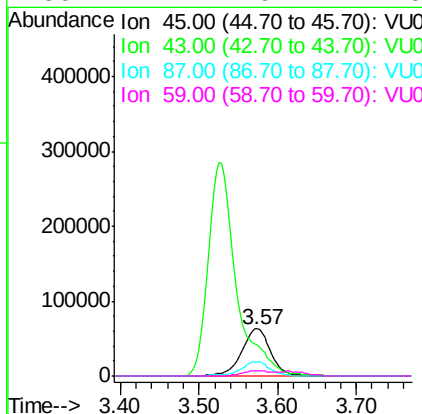
RT: 3.57 min Scan# 928

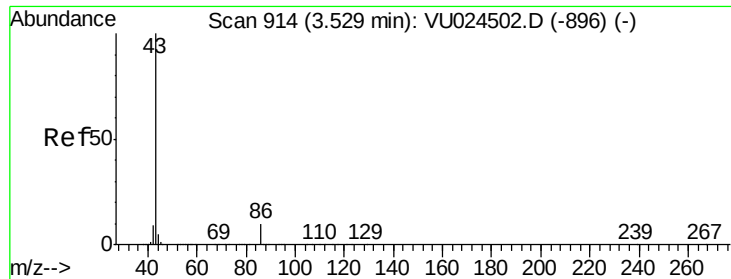
Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Tgt Ion:	45	Resp:	163984
Ion	Ratio	Lower	Upper
45	100		
43	63.0	45.8	68.6
87	30.6	20.6	31.0
59	11.4	9.4	14.0





#23

Vinyl Acetate

Concen: 95.35 ug/l

RT: 3.53 min Scan# 913

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 43 Resp: 702799

Ion Ratio Lower Upper

43 100

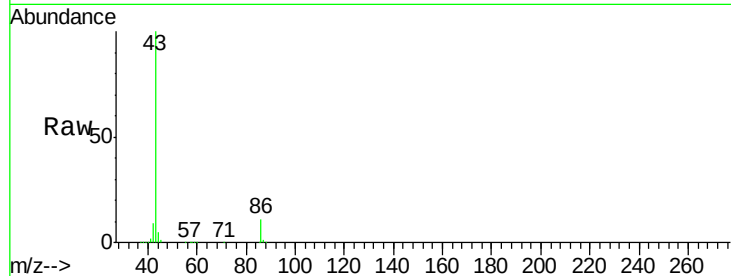
86 10.6 7.8 11.8

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

3.53

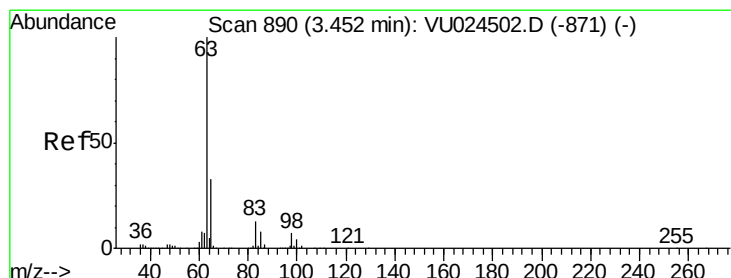
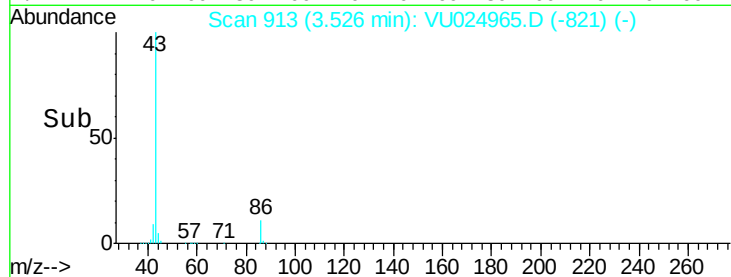
300000

200000

100000

0

Time--> 3.40 3.50 3.60 3.70



#24

1,1-Dichloroethane

Concen: 20.27 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

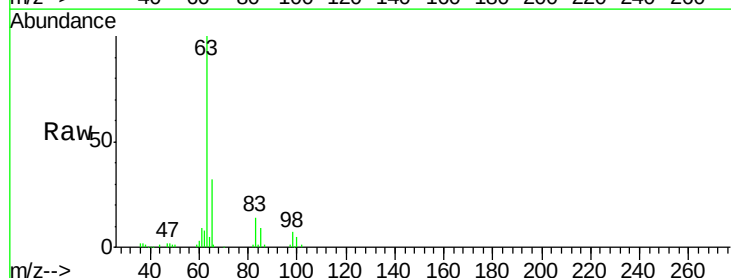
Tgt Ion: 63 Resp: 95941

Ion Ratio Lower Upper

63 100

98 6.6 3.5 10.4

100 4.8 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

3.45

60000

50000

40000

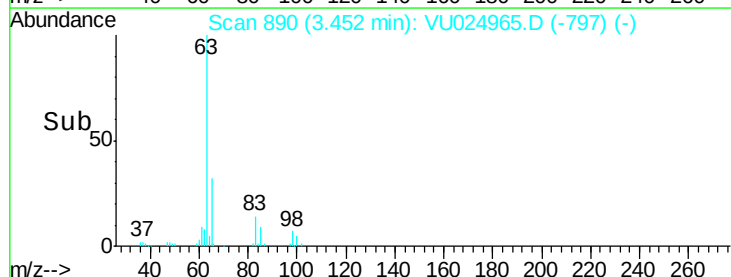
30000

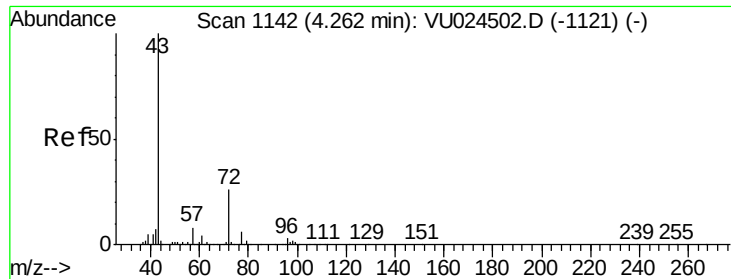
20000

10000

0

Time--> 3.35 3.40 3.45 3.50 3.55





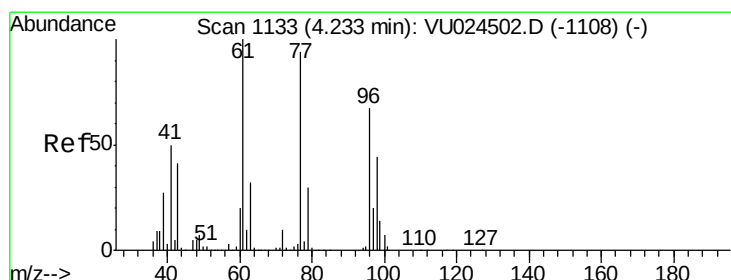
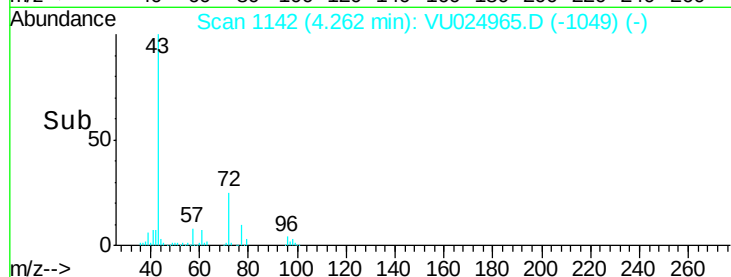
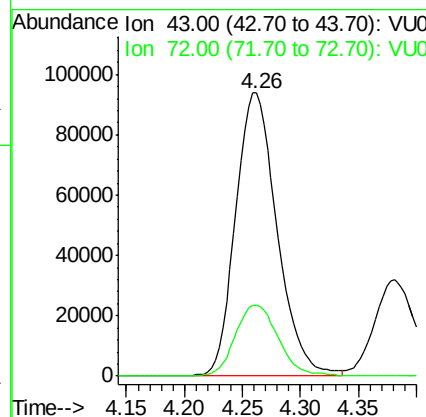
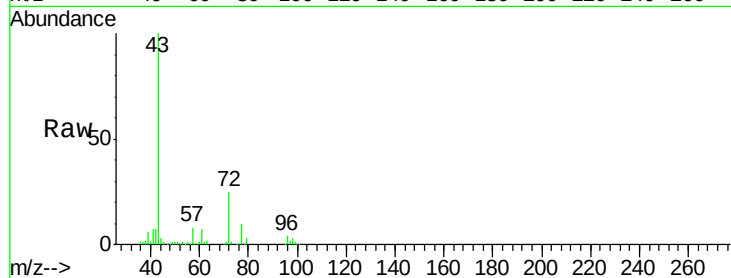
#25
 2-Butanone
 Concen: 100.02 ug/l
 RT: 4.26 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0627MBSD03

Tot Ion	43	Resp	231351
Ion Ratio	100	Lower	Upper
43	100		
72	25.0	19.6	29.4

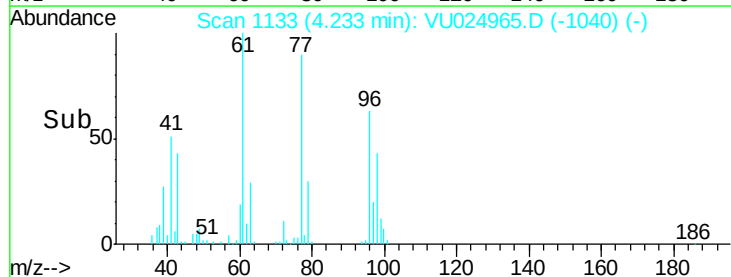
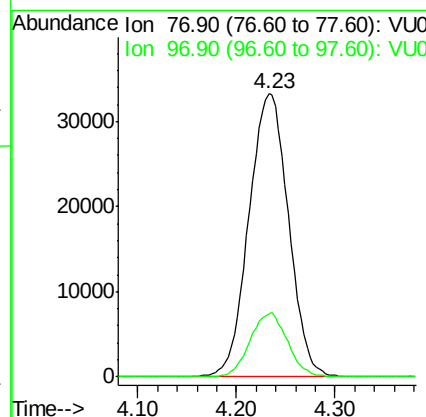
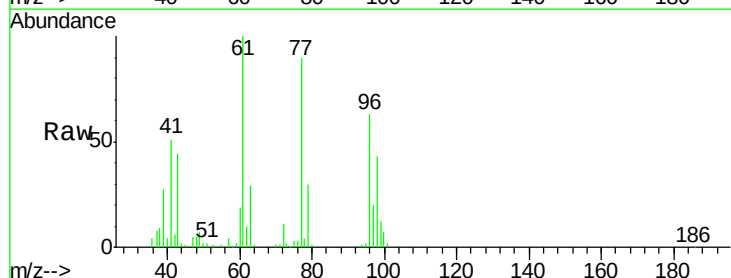
Manual Integrations
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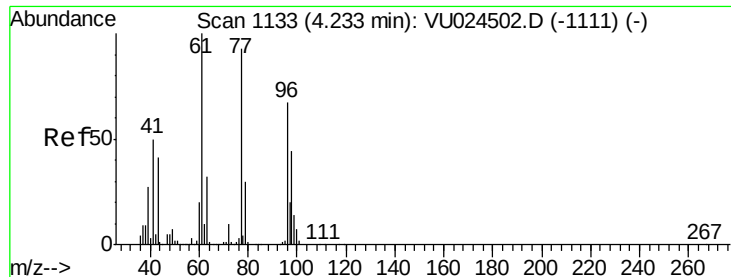
MMDadoda
 6/28/2018 4:37:02 PM



#26
 2,2-Dichloropropane
 Concen: 20.54 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion	77	Resp	92333
Ion Ratio	100	Lower	Upper
77	100		
97	21.3	11.3	33.8





#27

cis-1,2-Dichloroethene

Concen: 20.62 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

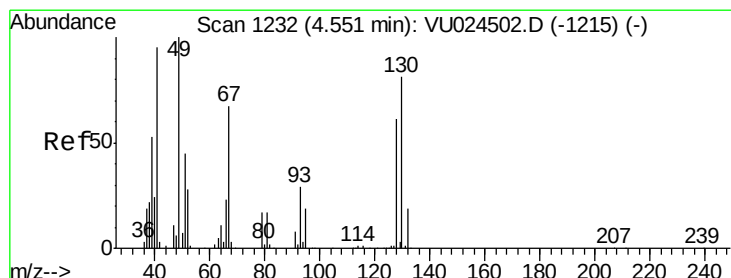
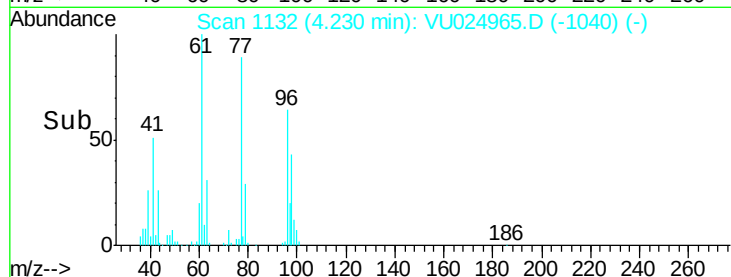
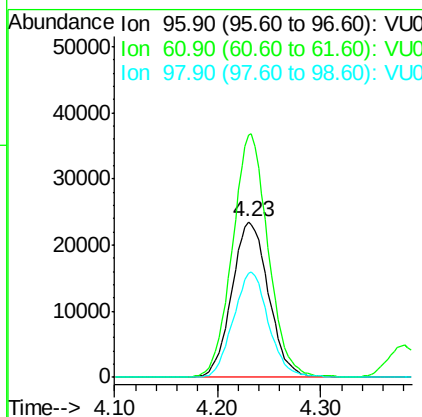
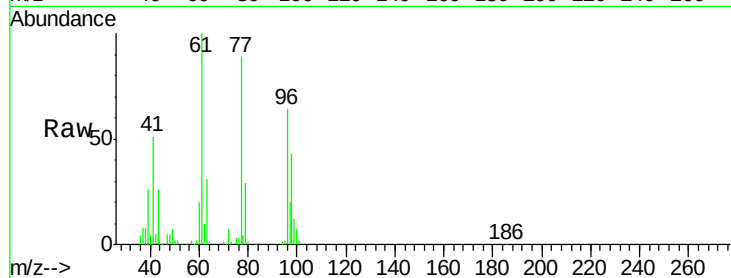
ClientSampleId :

VU0627MBS03

Tot Ion:	96	Resp:	58362
Ion	Ratio	Lower	Upper
96	100		
61	151.9	0.0	306.6
98	64.7	0.0	128.8

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#28

Bromochloromethane

Concen: 18.63 ug/l

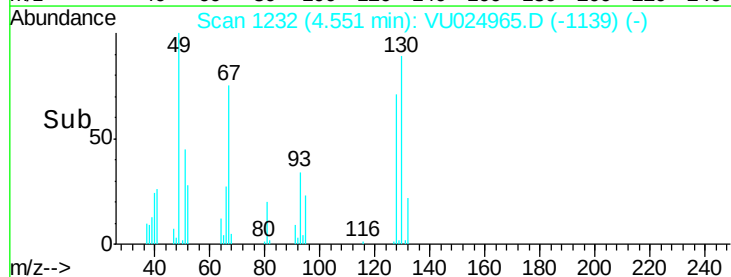
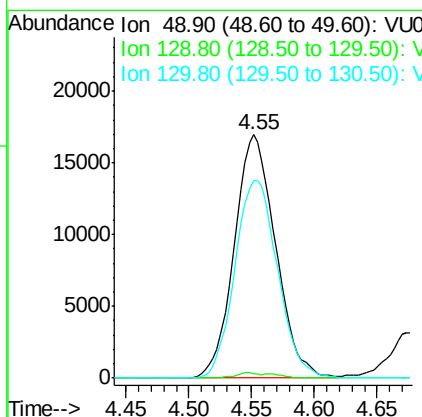
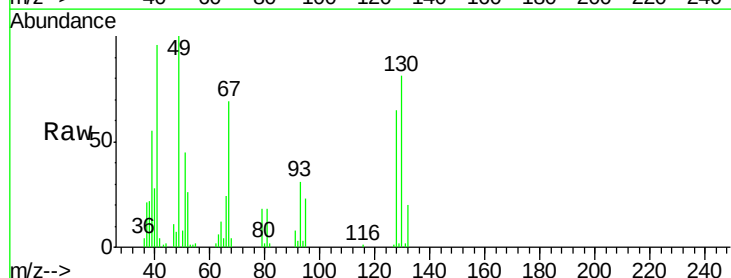
RT: 4.55 min Scan# 1232

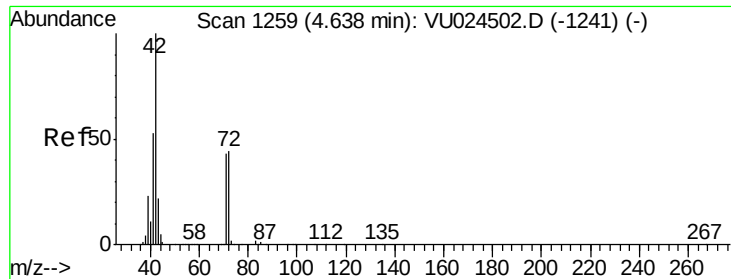
Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Tgt Ion:	49	Resp:	38846
Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.8
130	84.2	57.8	86.6





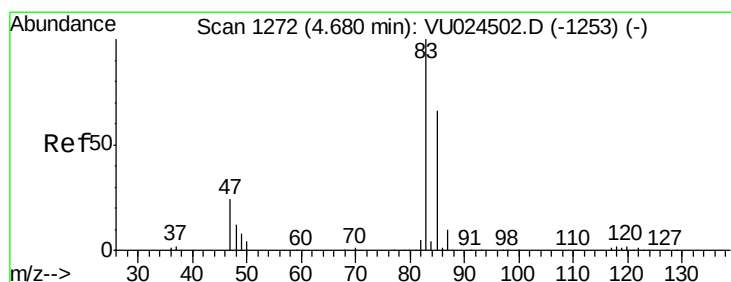
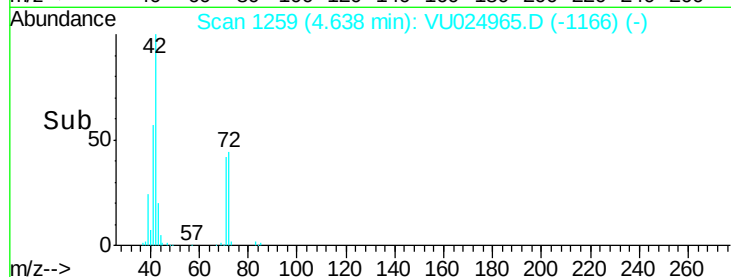
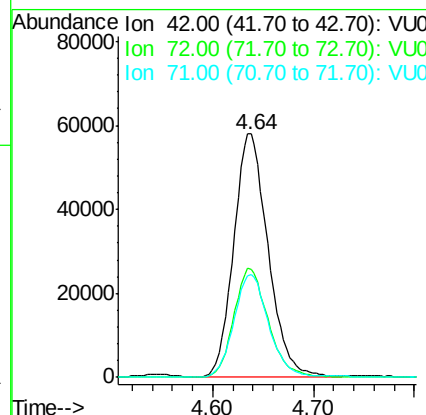
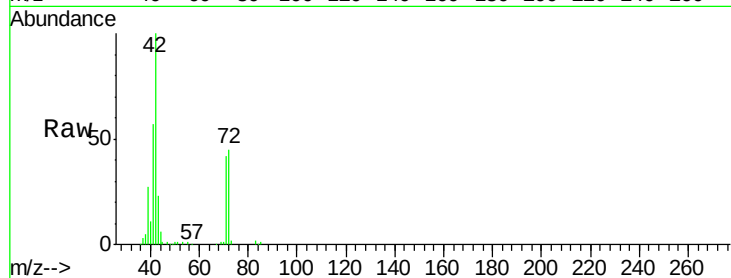
#29
Tetrahydrofuran
Concen: 96.18 ug/l
RT: 4.64 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	34.5	51.7
71	42.5	32.2	48.4

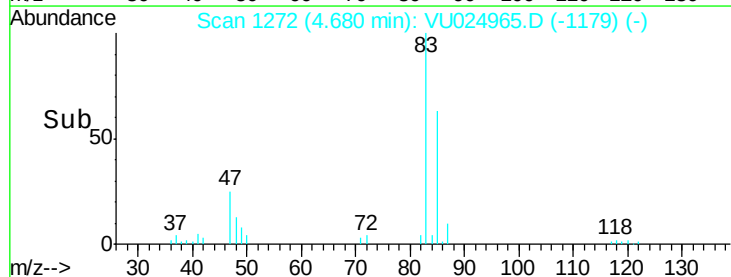
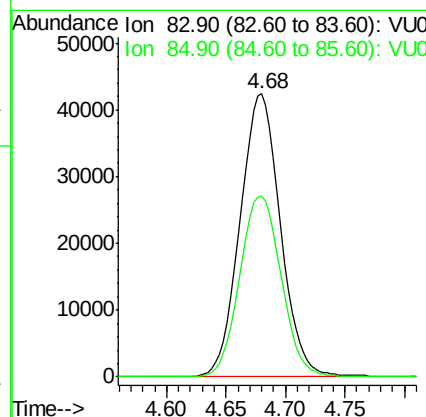
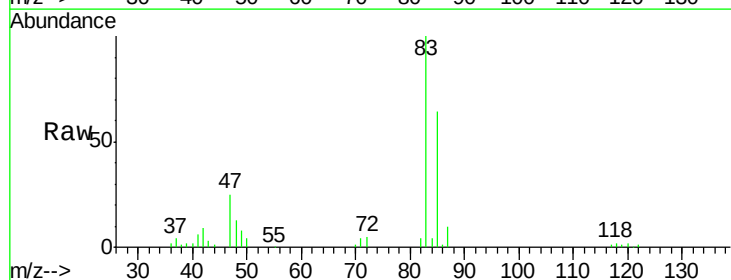
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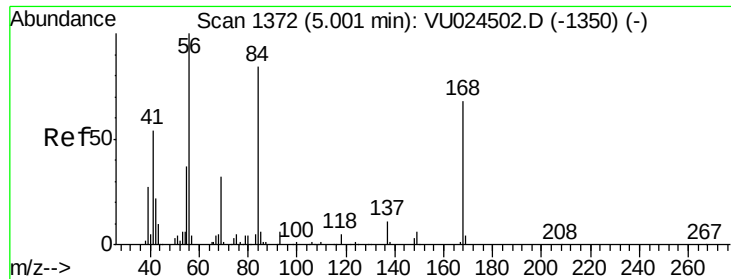
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#30
Chloroform
Concen: 20.76 ug/l
RT: 4.68 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.4	78.6





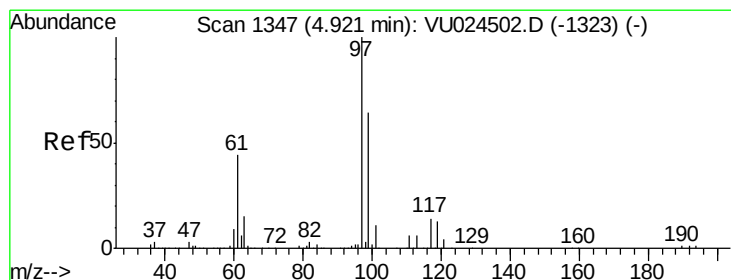
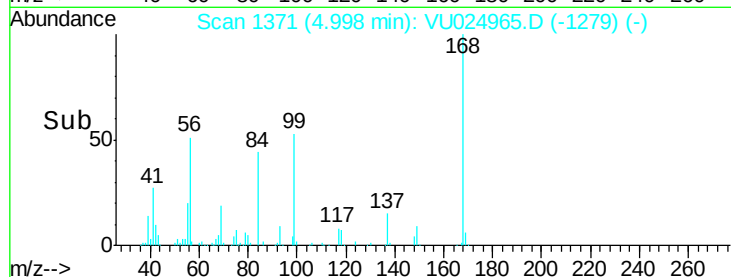
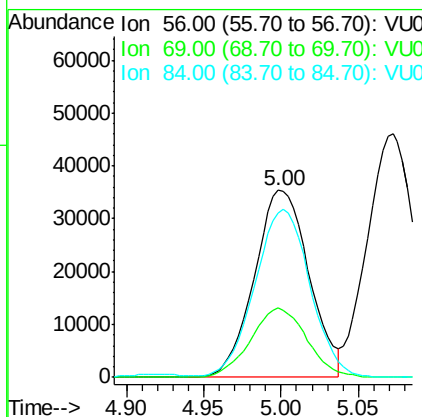
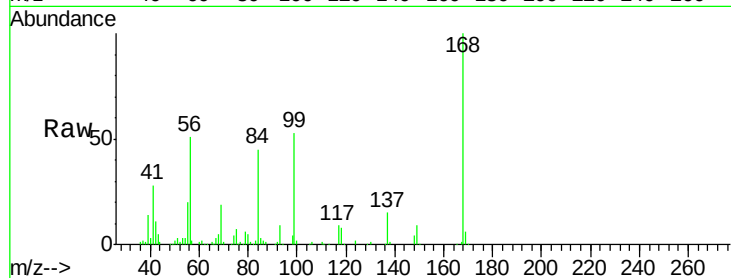
#31
Cyclohexane
Concen: 19.55 ug/l
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.9	24.8	37.2
84	87.0	65.2	97.8

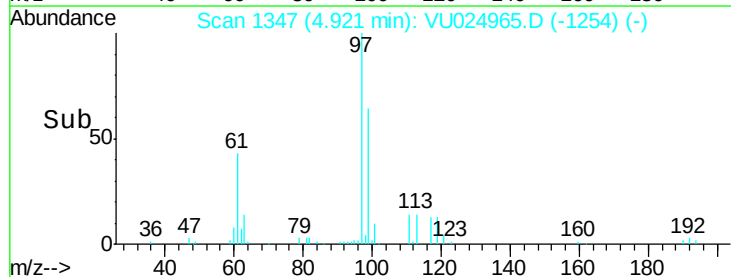
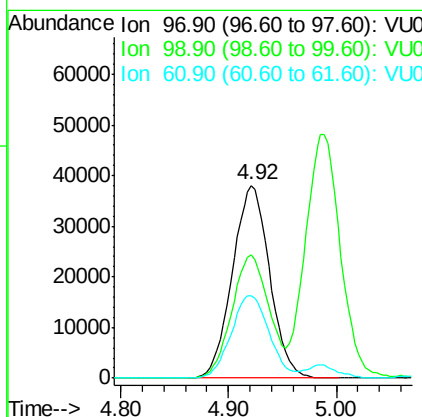
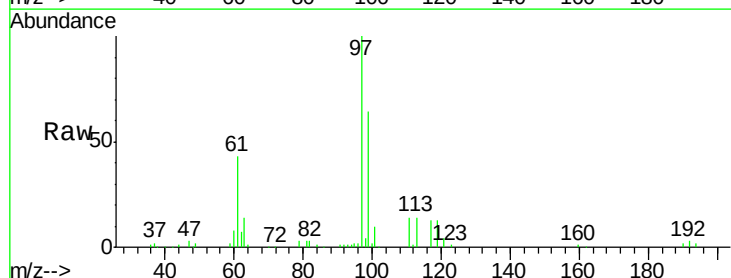
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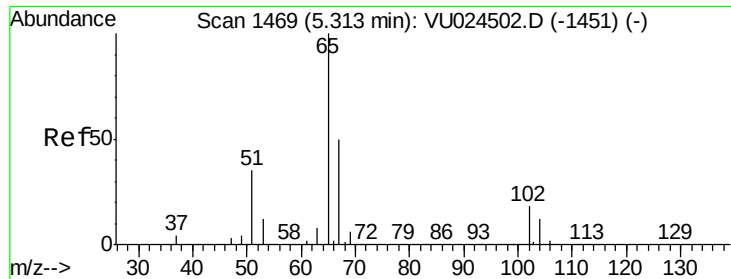
MMDadoda
6/28/2018 4:37:02 PM



#32
1,1,1-Trichloroethane
Concen: 20.60 ug/l
RT: 4.92 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.0	76.6
61	43.7	39.4	59.0





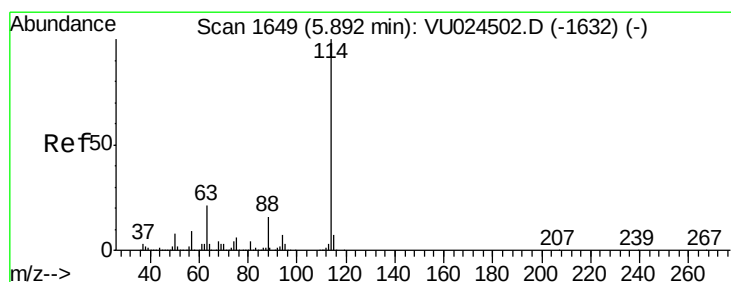
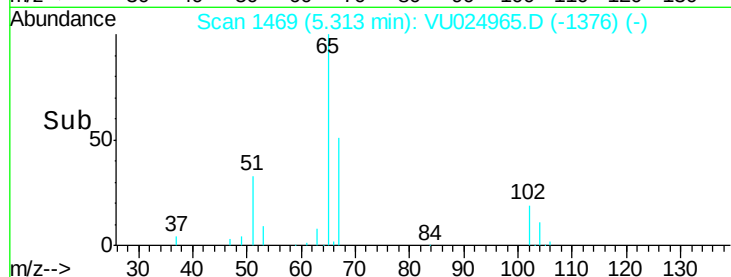
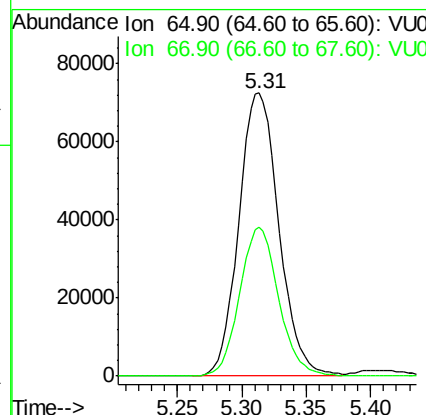
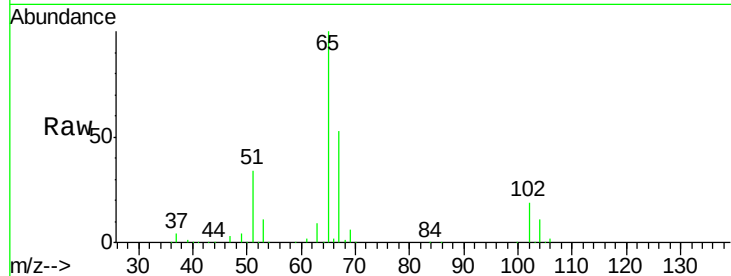
#33
 1,2-Dichloroethane-d4
 Concen: 48.86 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion	Ratio	Resp	Lower	Upper
65	100	156606		
67	51.1	0.0	107.0	

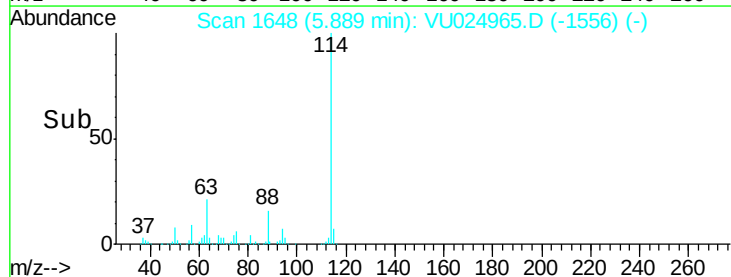
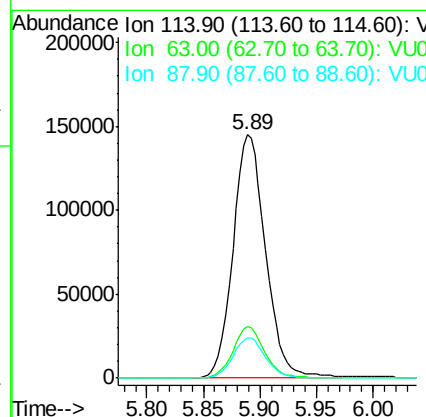
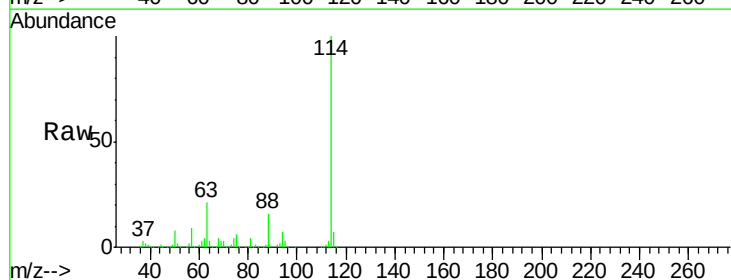
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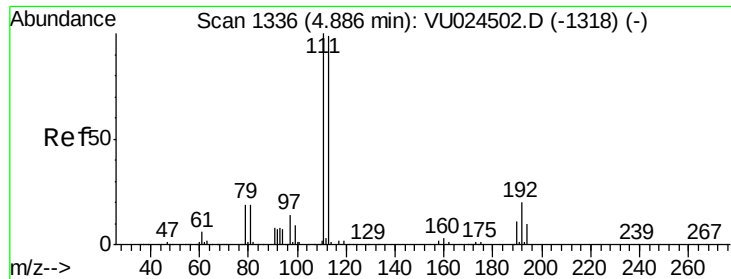
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	290805		
63	21.0	0.0	45.4	
88	16.4	0.0	31.0	





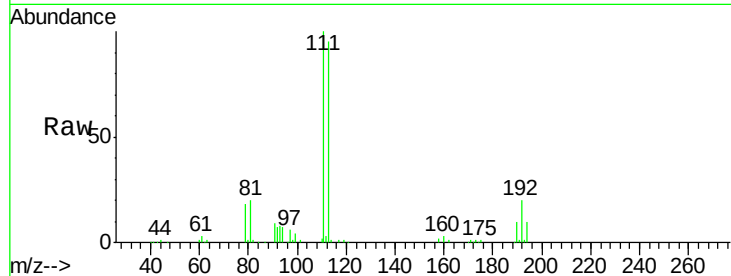
#35
 Dibromofluoromethane
 Concen: 51.75 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

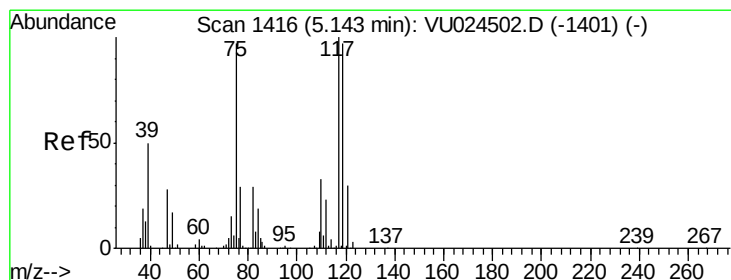
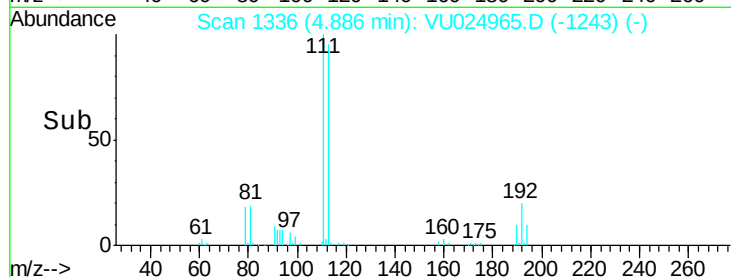
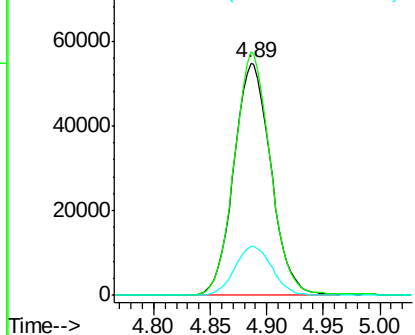
Tot Ion	Ratio	Resp	Lower	Upper
113	100	124889		
111	102.1	82.2	123.4	
192	21.2	16.2	24.4	

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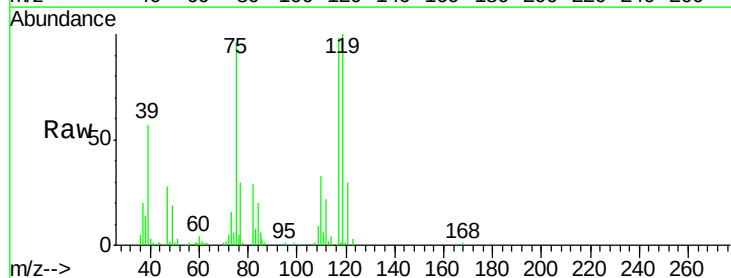


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

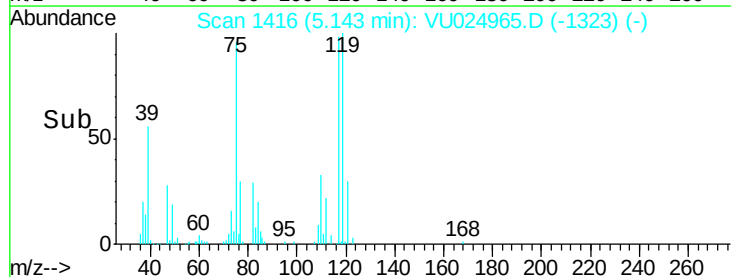
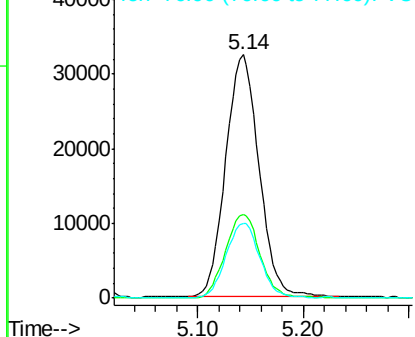


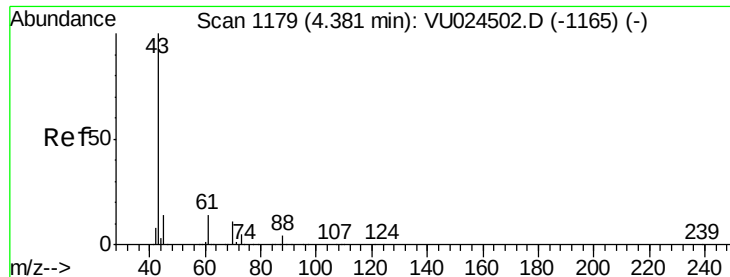
#36
 1,1-Dichloropropene
 Concen: 20.78 ug/l
 RT: 5.14 min Scan# 1416
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	71005		
110	35.8	17.0	50.9	
77	31.6	24.2	36.4	



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





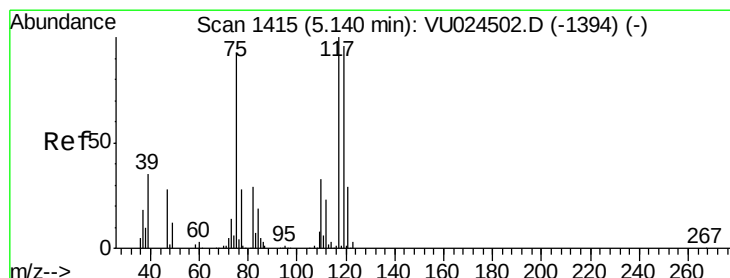
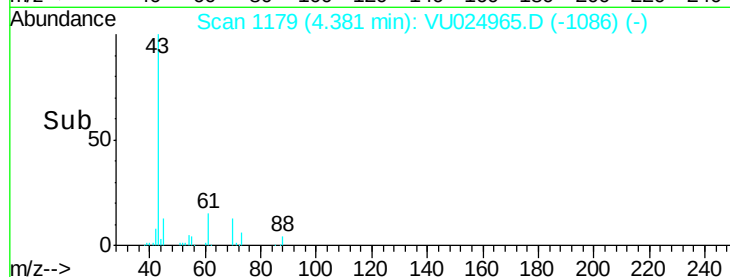
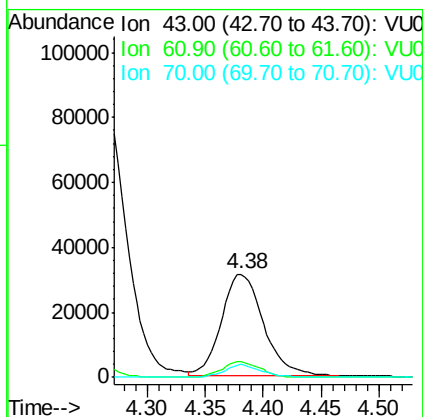
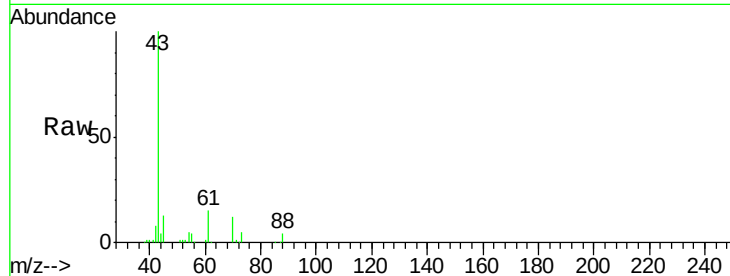
#37
Ethyl Acetate
Concen: 21.38 ug/l
RT: 4.38 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.5	15.7
70	11.2	7.4	11.2#

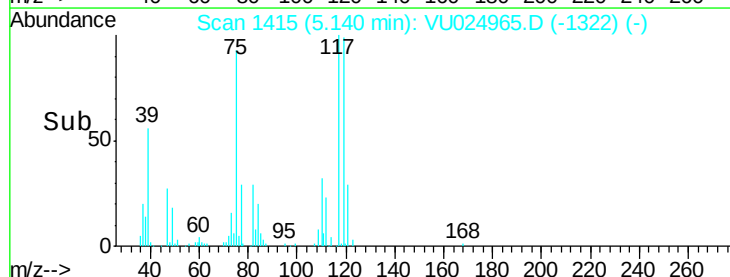
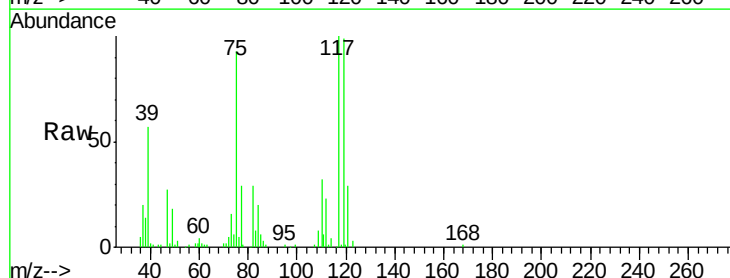
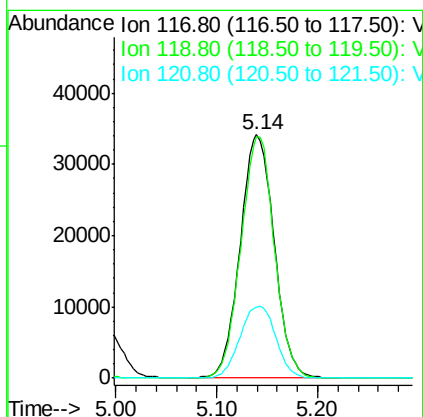
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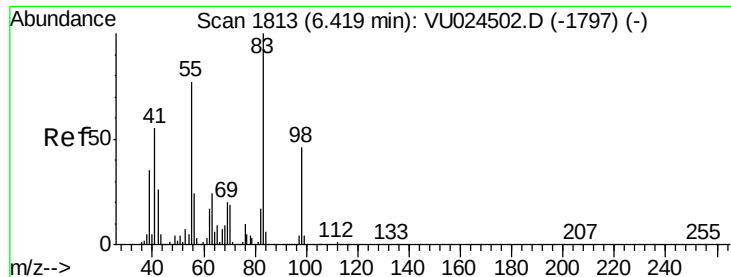
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#38
Carbon Tetrachloride
Concen: 21.25 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.3	76.1	114.1
121	29.3	23.7	35.5





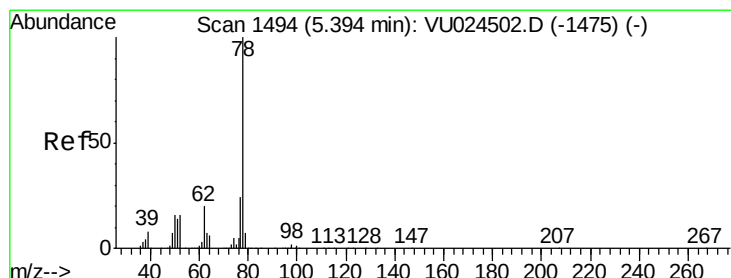
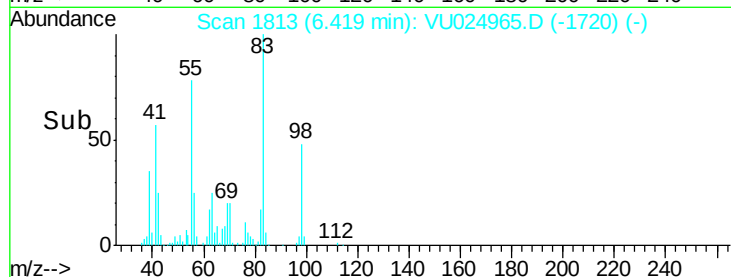
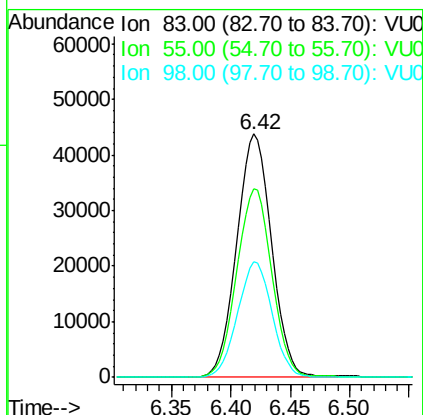
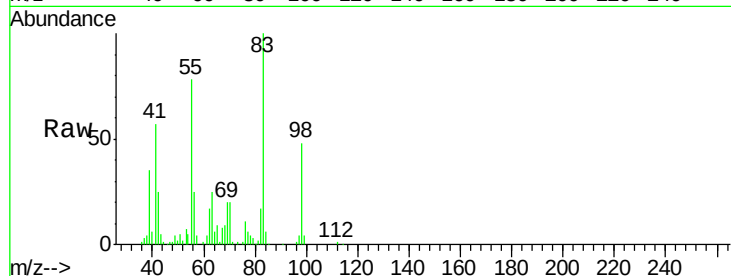
#39
Methylvlcyclohexane
Concen: 20.91 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.7	65.8	98.6
98	47.7	36.7	55.1

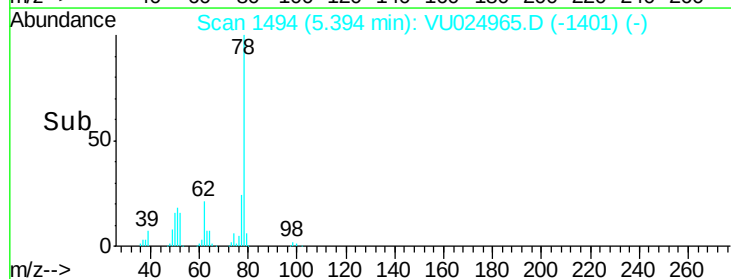
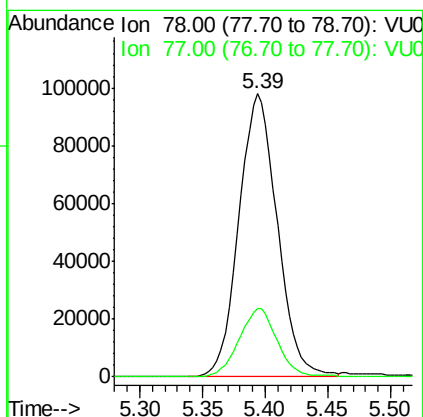
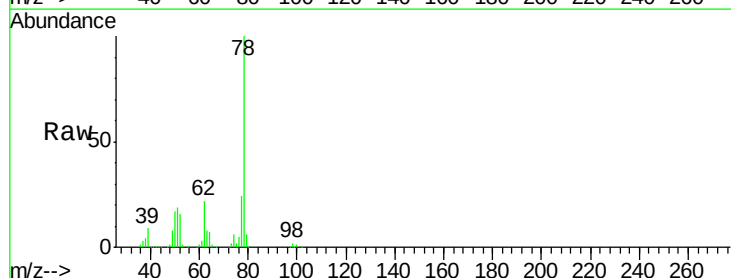
Manual Integrations
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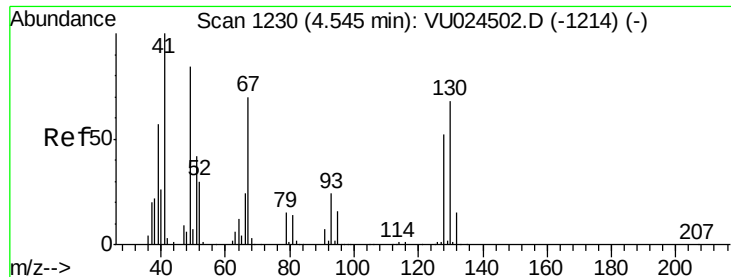
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#40
Benzene
Concen: 21.43 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.2	28.8





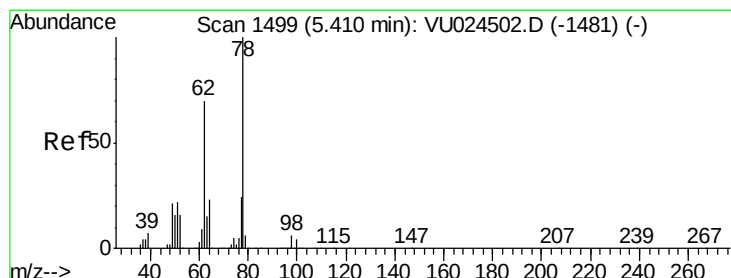
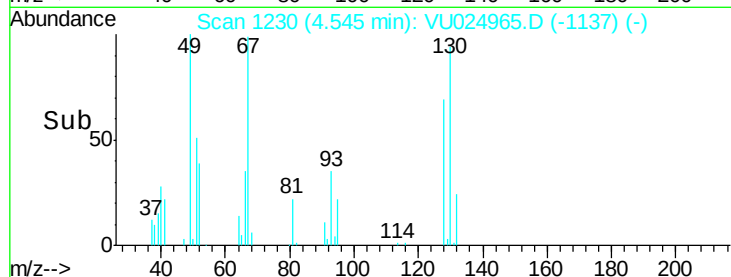
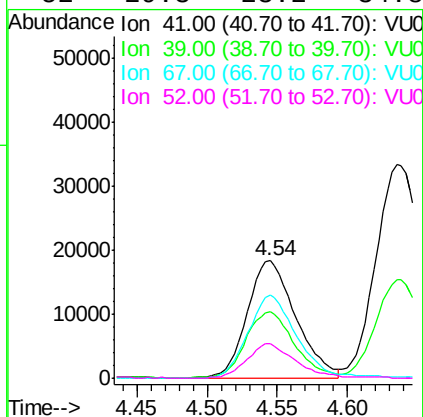
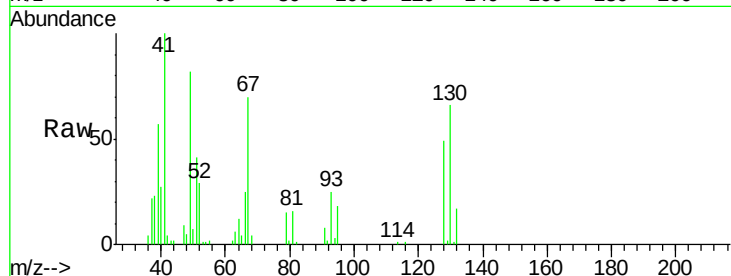
#41
Methacrylonitrile
Concen: 22.08 ug/l
RT: 4.54 min Scan# 1230
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampled :
VU0627MBSD03

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.0	43.8	65.6	
67	70.3	56.3	84.5	
52	29.3	23.2	34.8	

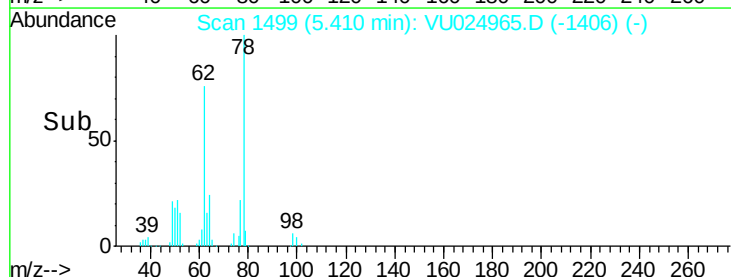
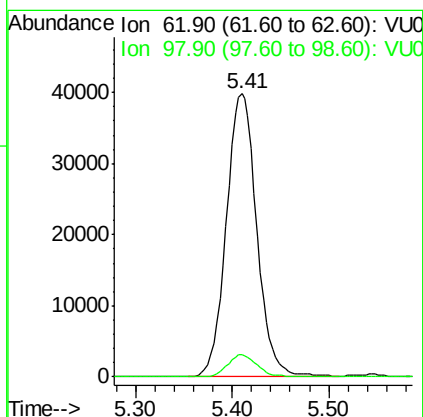
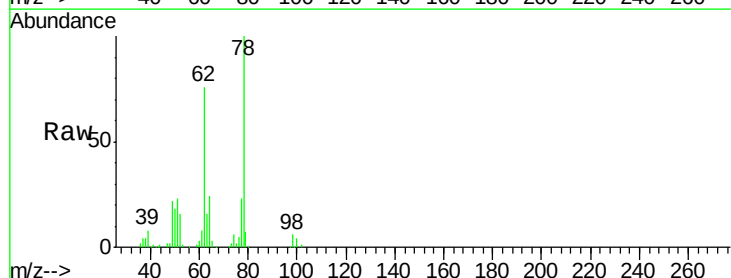
Manual Integrations
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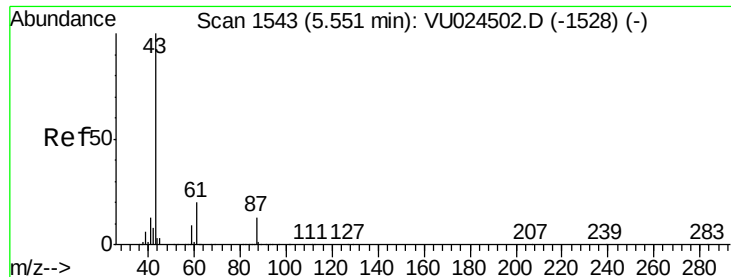
MMDadoda
6/28/2018 4:37:02 PM



#42
1,2-Dichloroethane
Concen: 23.47 ug/l
RT: 5.41 min Scan# 1499
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.5	0.0	16.6	





#43

Isopropyl Acetate

Concen: 19.94 ug/l

RT: 5.55 min Scan# 1542

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

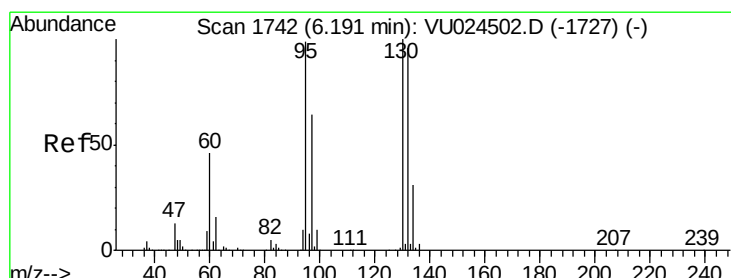
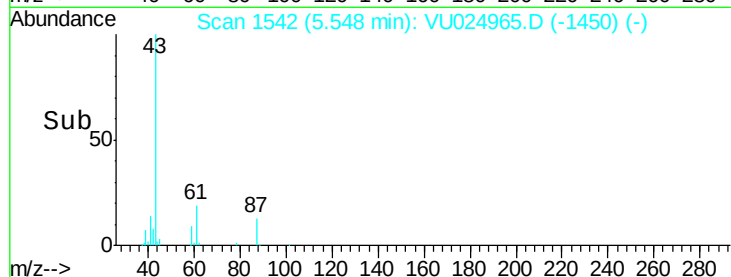
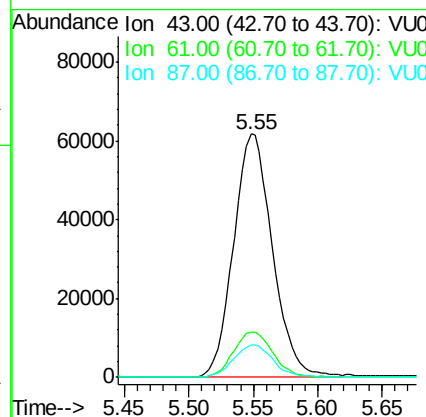
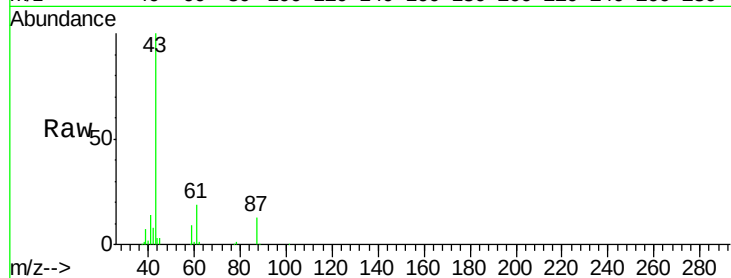
ClientSampleId :

VU0627MBSD03

Tot Ion:	43	Resp:	128377
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.4	23.0
87	13.7	10.0	15.0

Manual Integrations
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#44

Trichloroethene

Concen: 20.95 ug/l

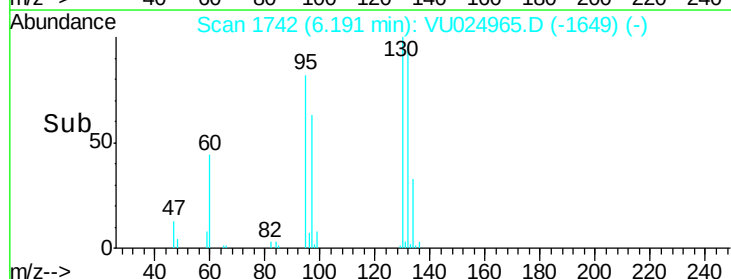
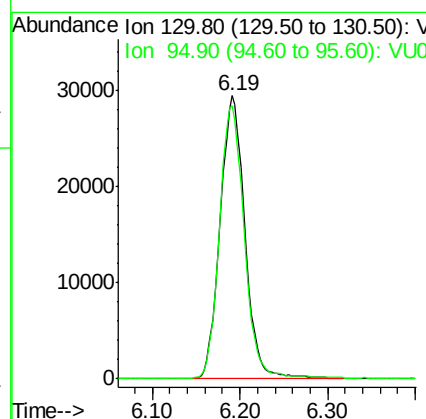
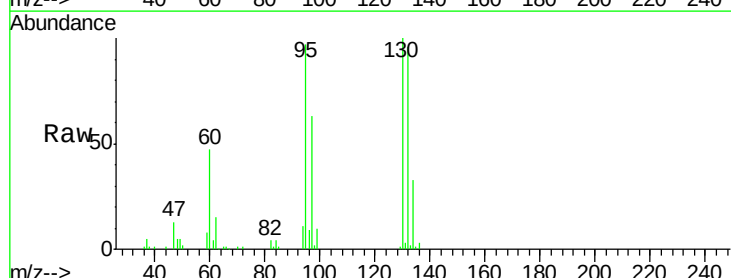
RT: 6.19 min Scan# 1742

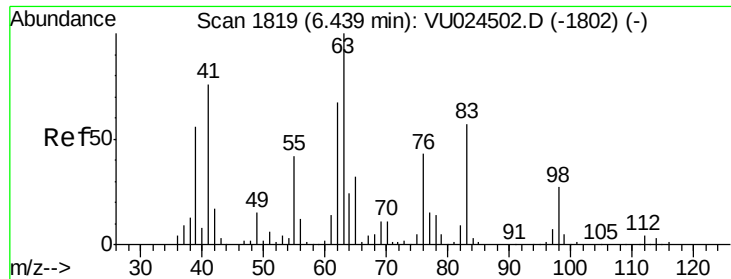
Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Tgt Ion:	130	Resp:	58068
Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	202.4





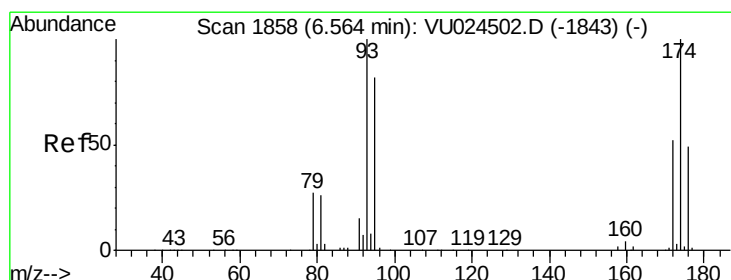
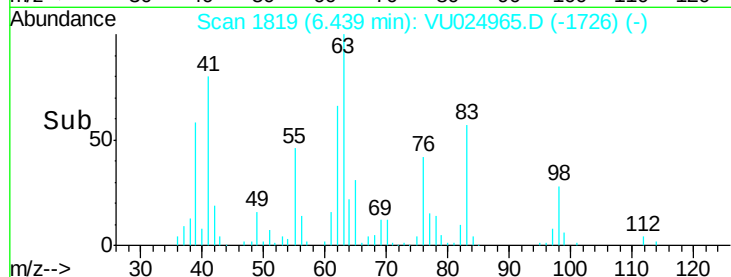
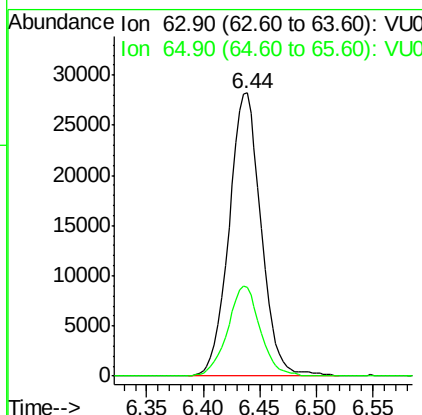
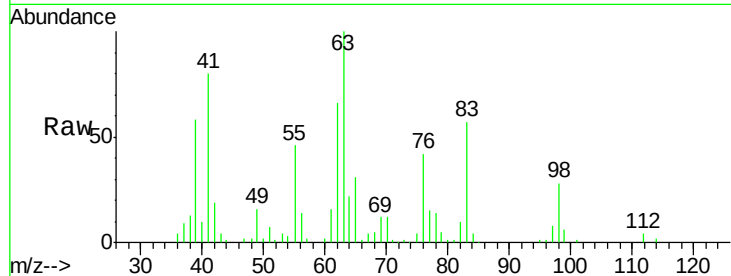
#45
 1,2-Dichloropropane
 Concen: 21.40 ug/l
 RT: 6.44 min Scan# 1819
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion: 63 Resp: 55599
 Ion Ratio Lower Upper
 63 100
 65 31.2 24.8 37.2

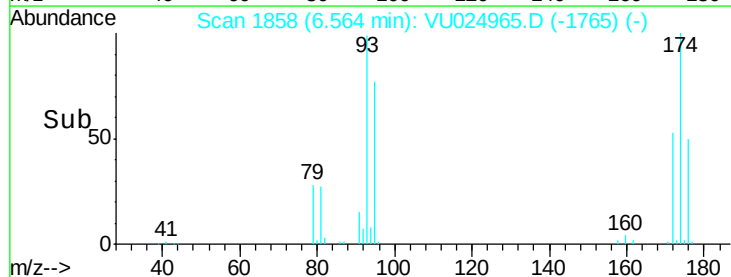
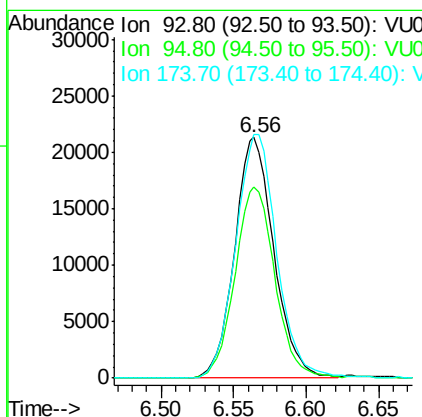
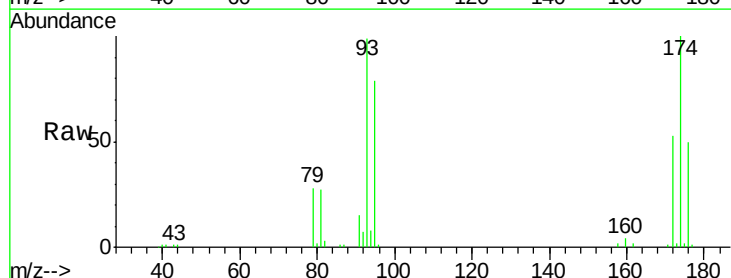
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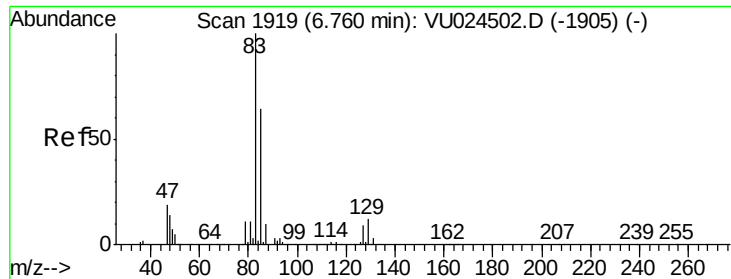
MMDadoda
 6/28/2018 4:37:02 PM



#46
 Dibromomethane
 Concen: 22.00 ug/l
 RT: 6.56 min Scan# 1858
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion: 93 Resp: 40144
 Ion Ratio Lower Upper
 93 100
 95 80.5 65.5 98.3
 174 105.8 78.7 118.1





#47

Bromodichloromethane

Concen: 20.59 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

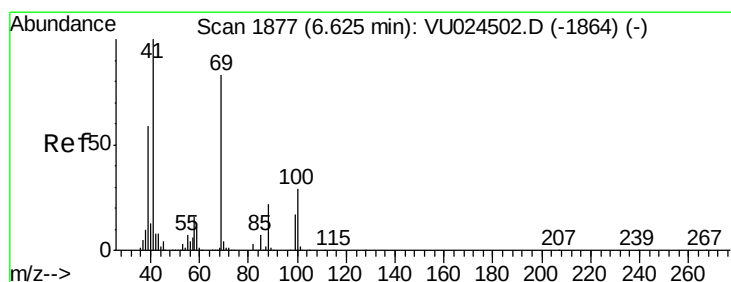
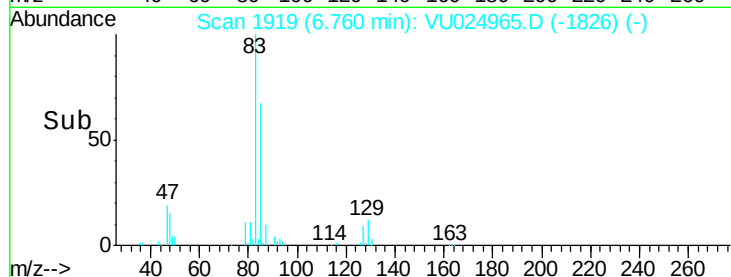
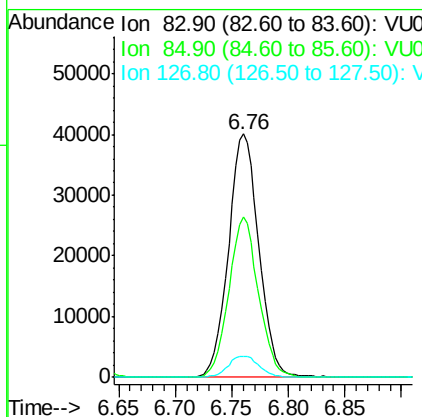
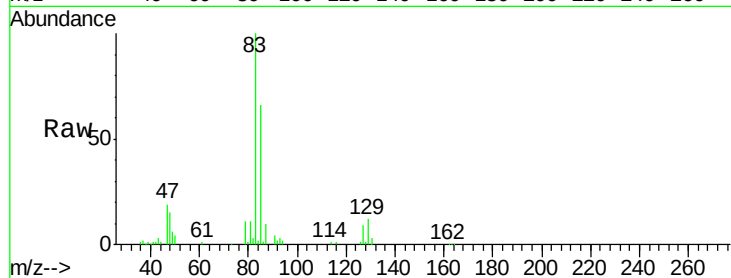
ClientSampleId :

VU0627MBSD03

Tot Ion:	83	Resp:	74831
Ion Ratio	Lower	Upper	
83	100		
85	66.1	51.9	77.9
127	8.7	6.6	9.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.69 ug/l

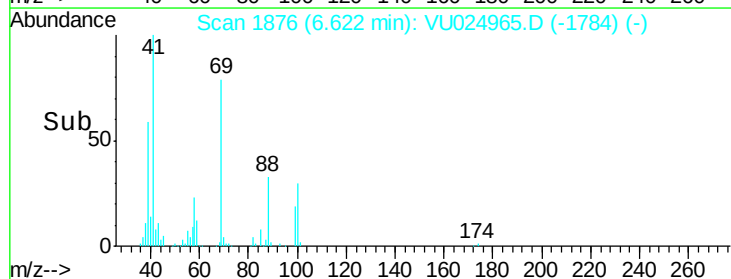
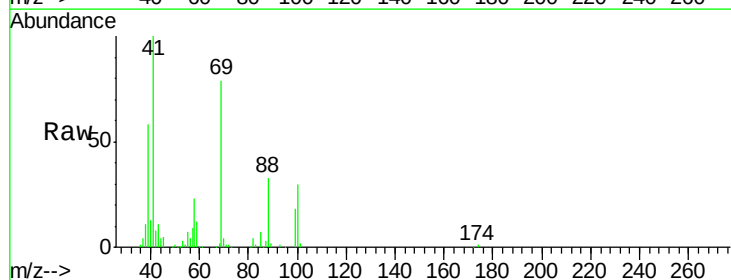
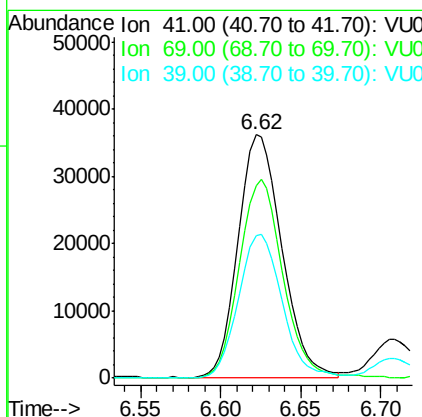
RT: 6.62 min Scan# 1876

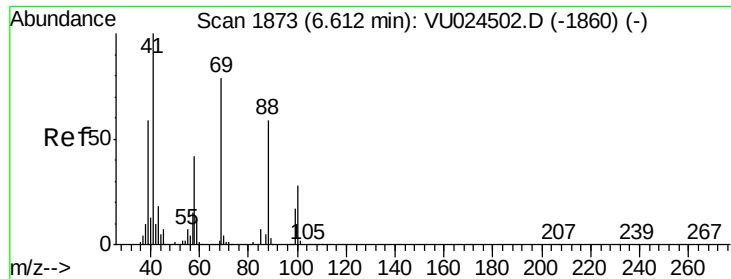
Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Tgt Ion:	41	Resp:	68004
Ion Ratio	Lower	Upper	
41	100		
69	81.1	67.3	100.9
39	58.7	46.5	69.7





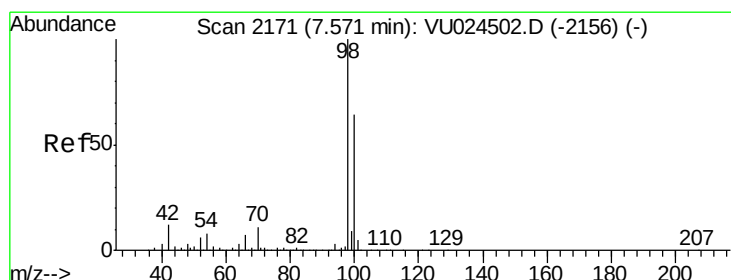
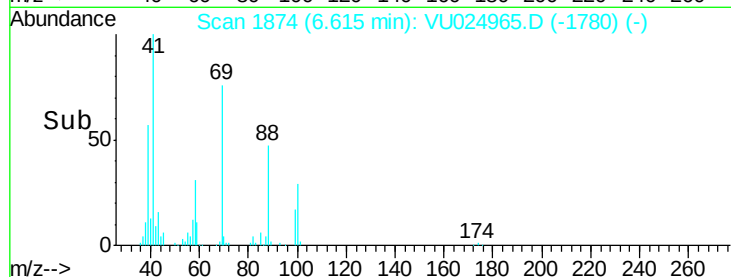
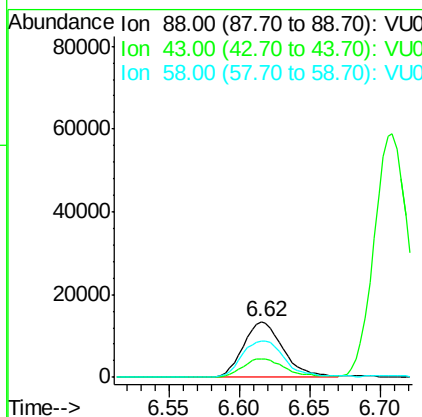
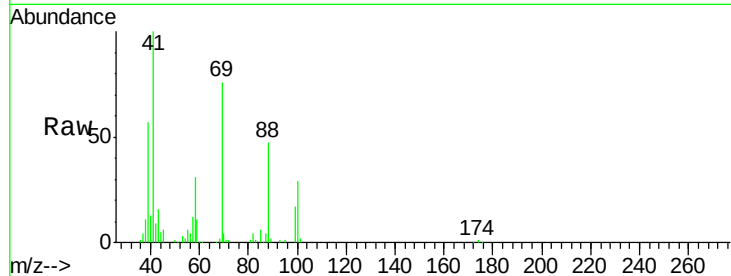
#49
1,4-Dioxane
Concen: 437.44 ug/l
RT: 6.62 min Scan# 1874
Delta R.T. 0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Resp	Lower	Upper
88	100	26818		
43	35.1		28.6	42.8
58	70.8		58.2	87.4

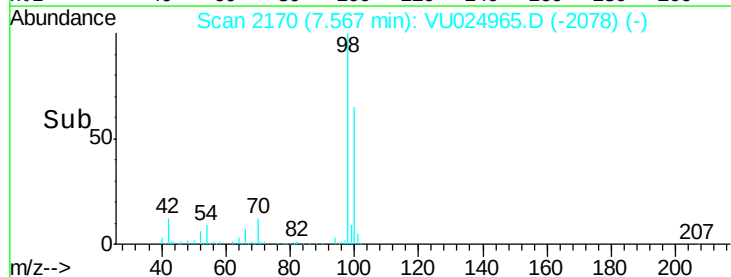
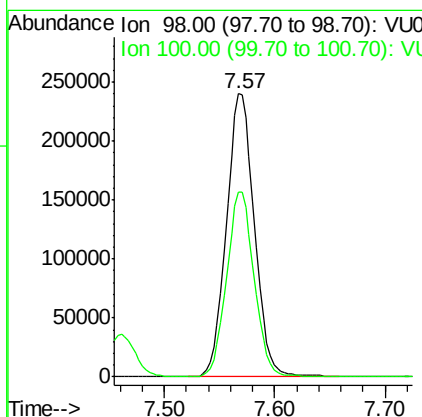
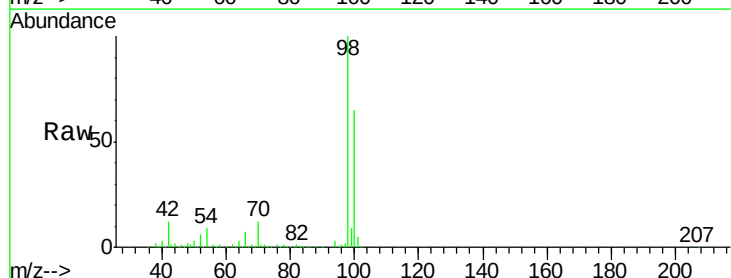
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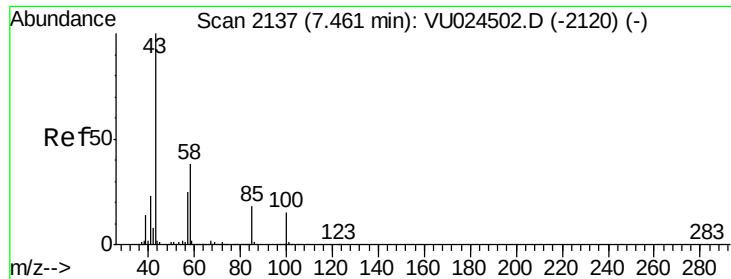
MMDadoda
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#50
Toluene-d8
Concen: 47.94 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	421992		
100	64.1		51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 103.82 ug/l

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 43 Resp: 419906

Ion Ratio Lower Upper

43 100

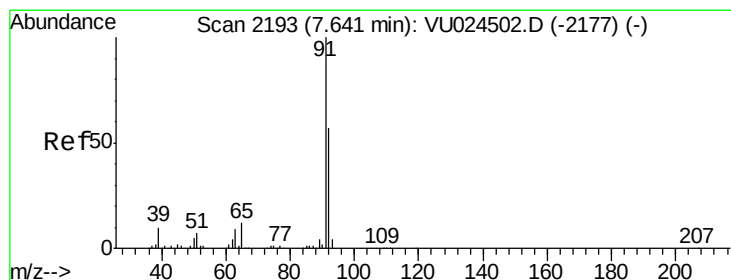
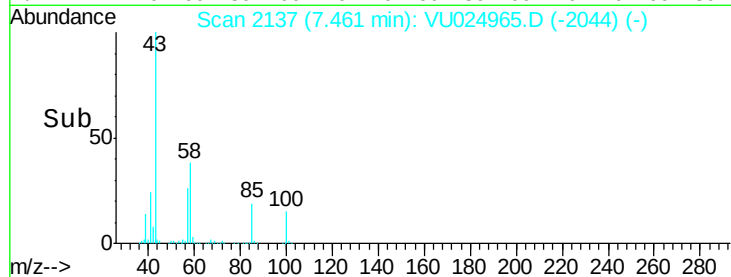
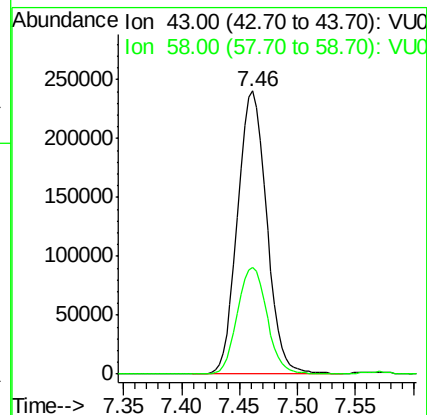
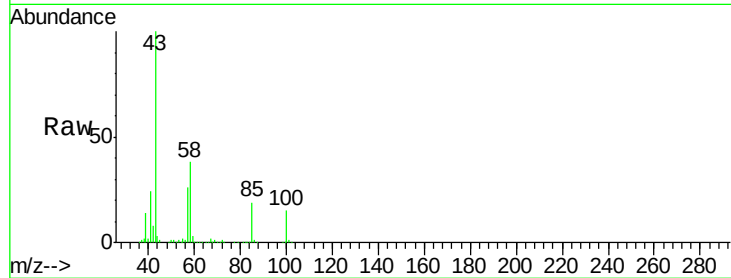
58 38.3 30.0 45.0

Manual Integrations

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#52

Toluene

Concen: 21.54 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU024965.D

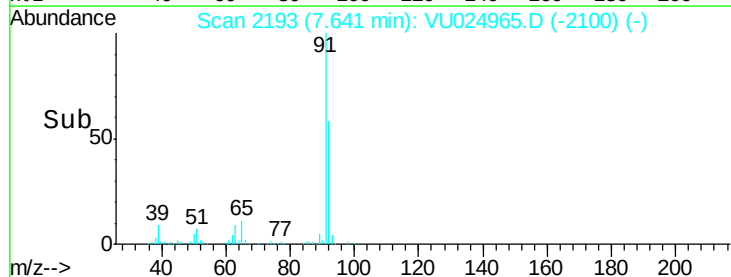
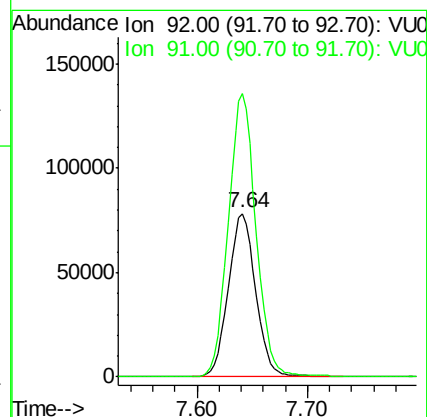
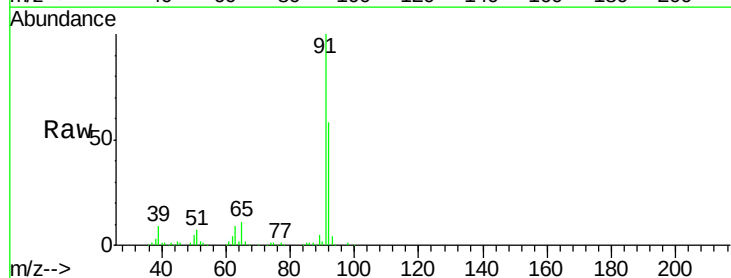
Acq: 27 Jun 2018 14:39

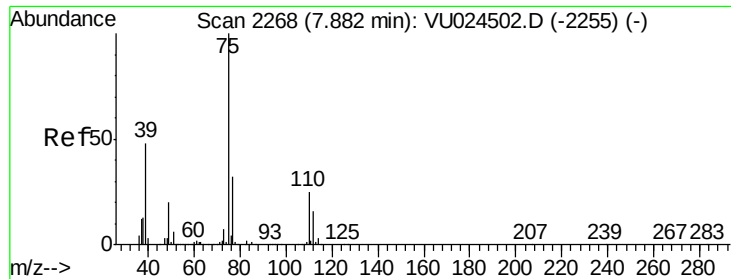
Tgt Ion: 92 Resp: 134917

Ion Ratio Lower Upper

92 100

91 174.8 140.5 210.7





#53

t-1,3-Dichloropropene

Concen: 20.04 ug/l

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 75 Resp: 81768

Ion Ratio Lower Upper

75 100

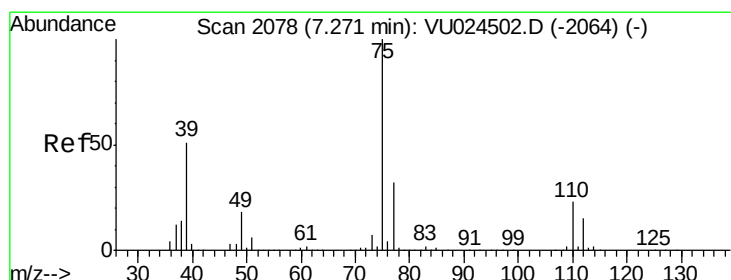
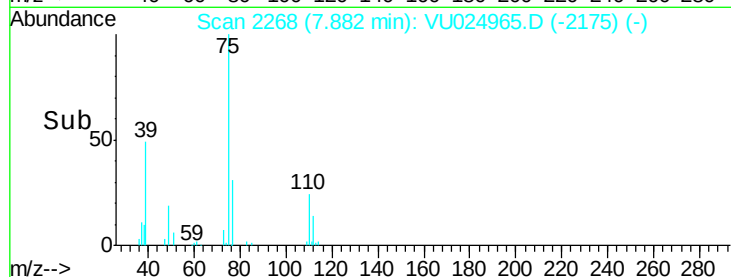
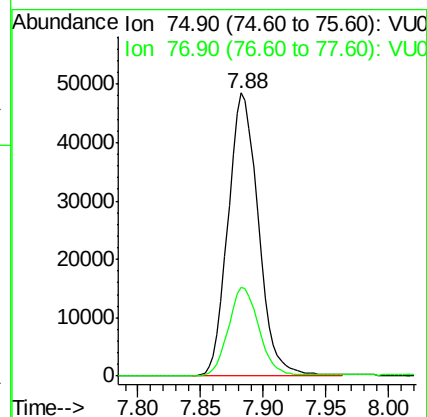
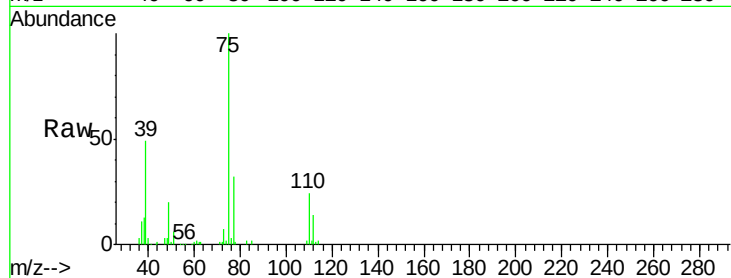
77 31.6 24.8 37.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.02 ug/l

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

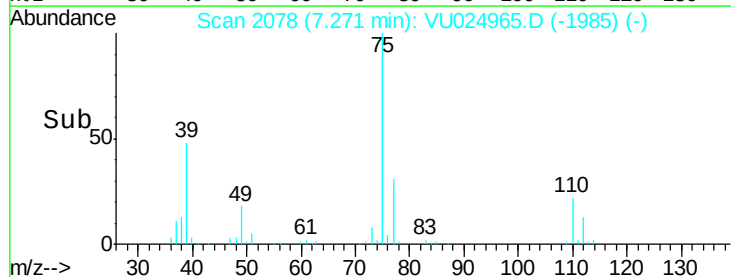
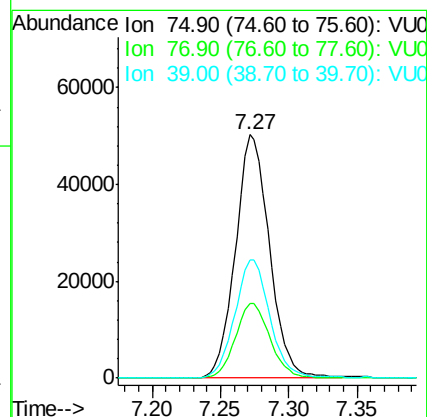
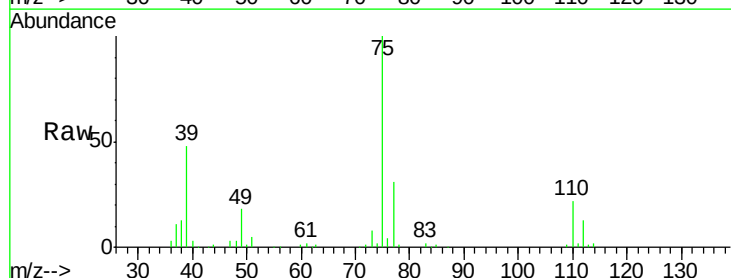
Tgt Ion: 75 Resp: 87063

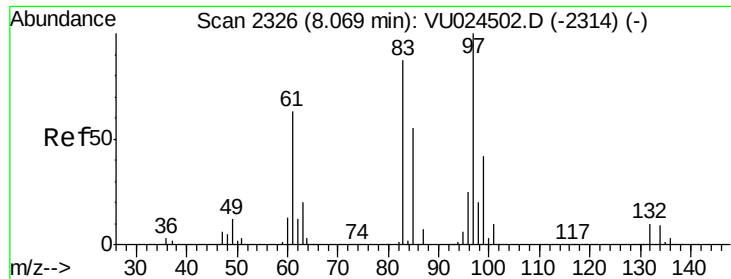
Ion Ratio Lower Upper

75 100

77 30.7 24.6 36.8

39 48.4 39.8 59.6





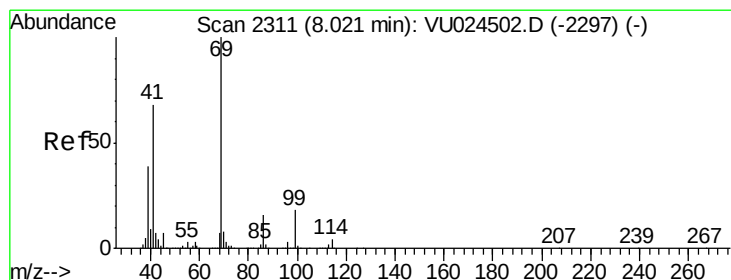
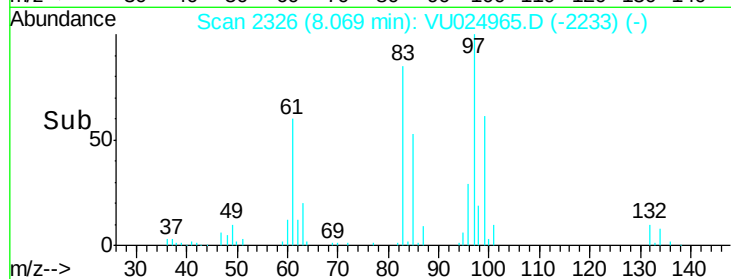
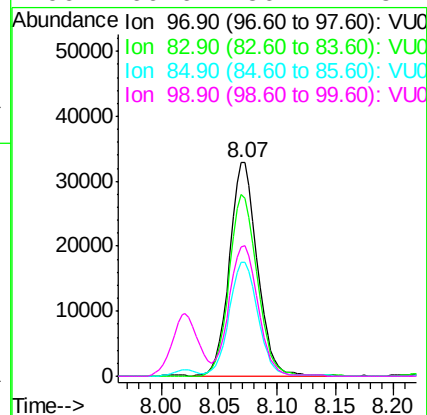
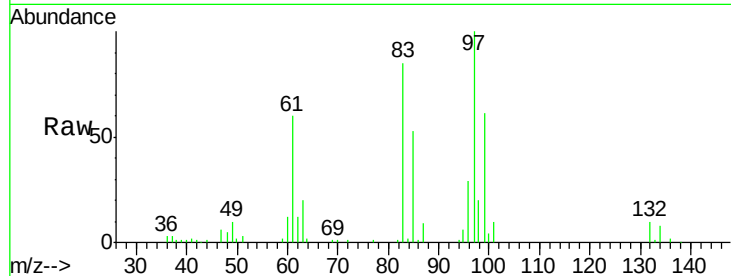
#55
 1,1,2-Trichloroethane
 Concen: 21.62 ug/l
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		55055		
83	85.3	70.5	105.7		
85	53.5	46.4	69.6		
99	60.6	50.2	75.2		

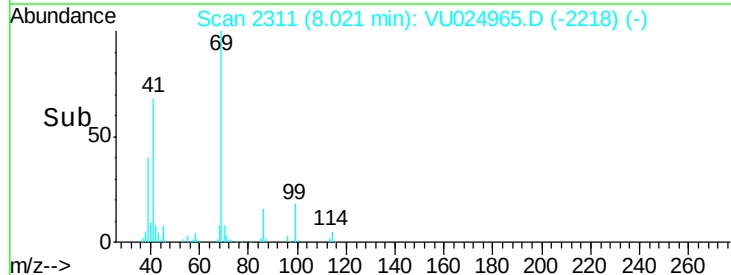
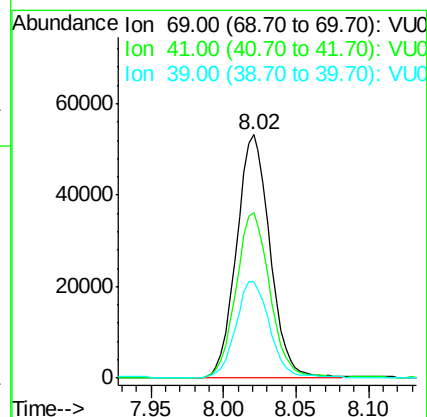
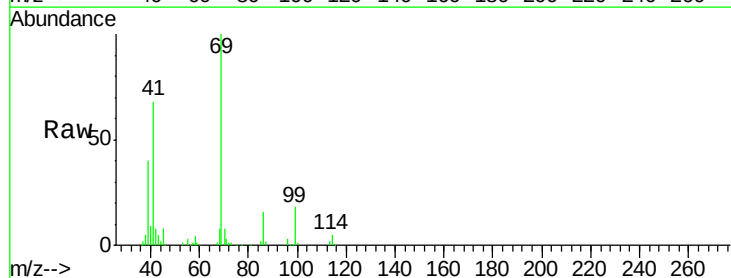
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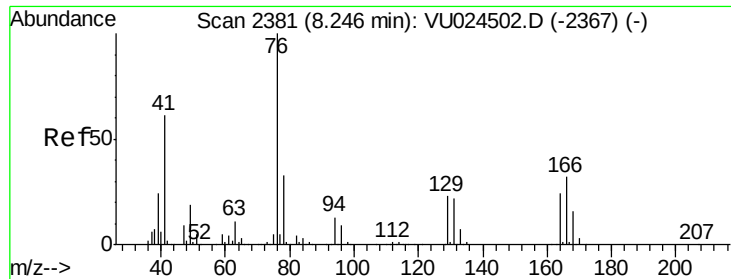
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#56
 Ethyl methacrylate
 Concen: 20.02 ug/l
 RT: 8.02 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		85336		
41	69.4	54.1	81.1		
39	39.8	30.3	45.5		





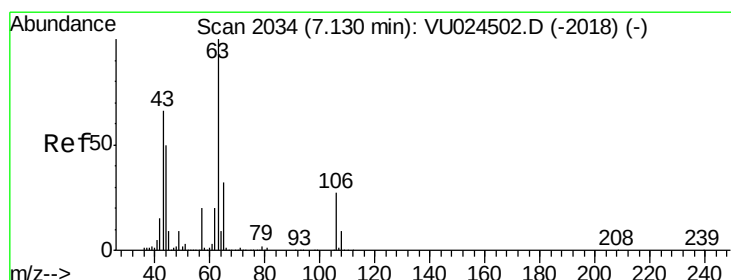
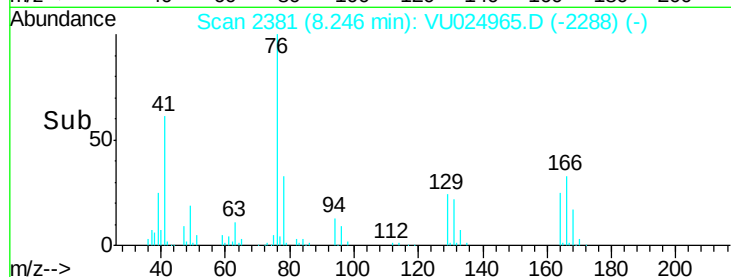
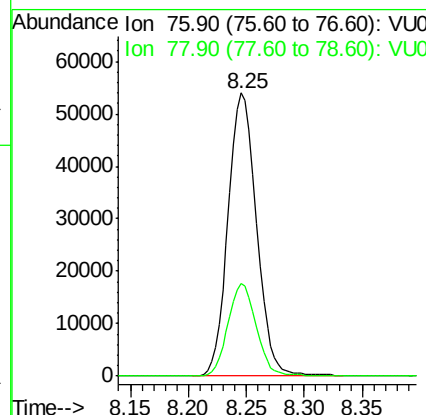
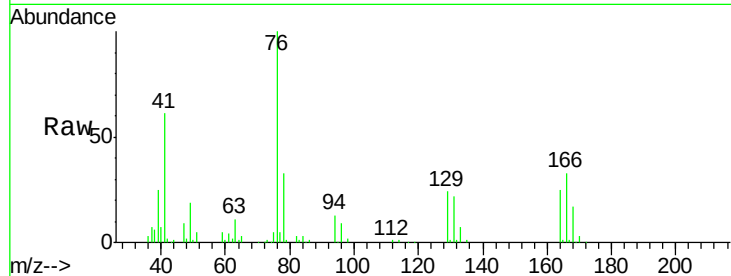
#57
 1,3-Dichloropropane
 Concen: 21.40 ug/l
 RT: 8.25 min Scan# 2381
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion: 76 Resp: 91925
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.2 37.8

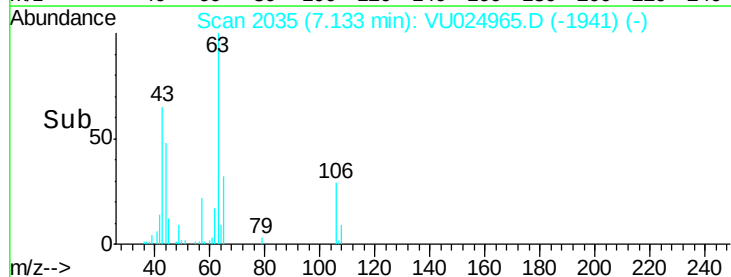
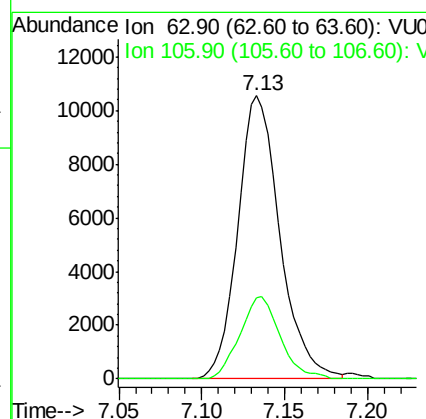
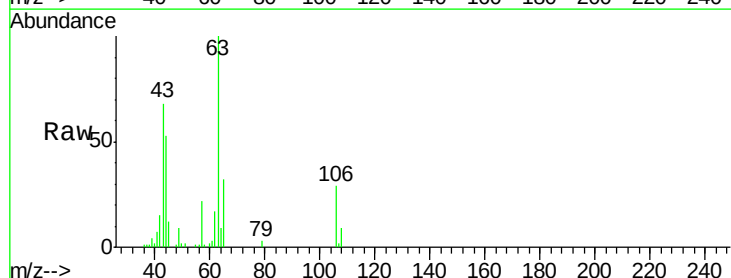
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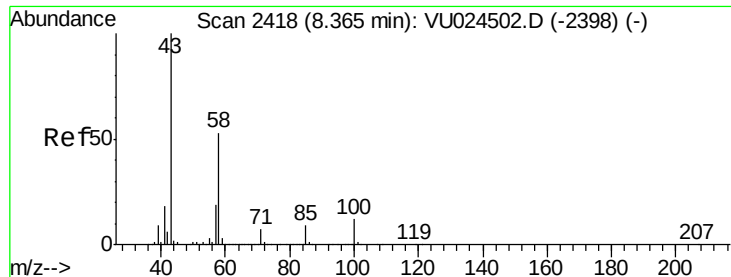
MMDadoda
 6/28/2018 4:37:02 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 11.40 ug/l
 RT: 7.13 min Scan# 2035
 Delta R.T. 0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion: 63 Resp: 18614
 Ion Ratio Lower Upper
 63 100
 106 27.7 20.2 30.2





#59

2-Hexanone

Concen: 102.76 ug/l

RT: 8.36 min Scan# 2417

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 43 Resp: 339330

Ion Ratio Lower Upper

43 100

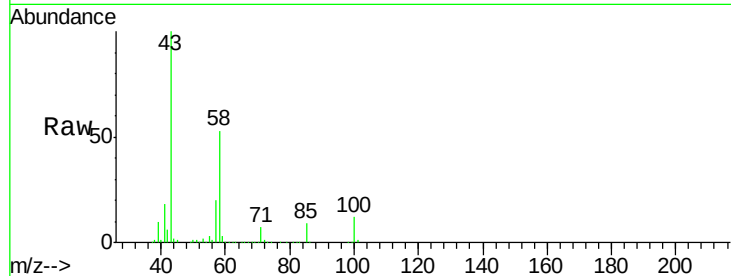
58 53.3 26.4 79.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-2398) (-)

Ion 58.00 (57.70 to 58.70): VU024502.D (-2398) (-)

8.36

200000

150000

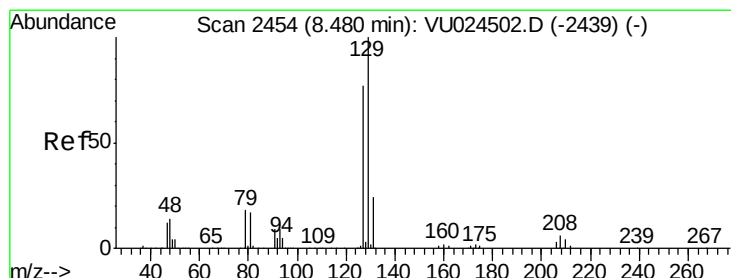
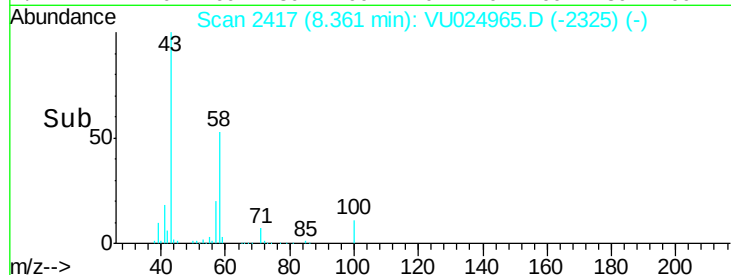
100000

50000

0

8.30 8.40 8.50

Time-->



#60

Dibromochloromethane

Concen: 19.18 ug/l

RT: 8.48 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VU024965.D

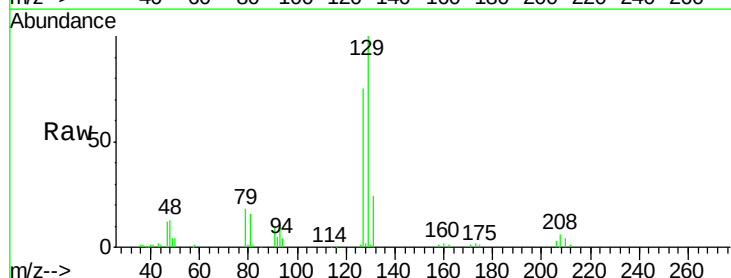
Acq: 27 Jun 2018 14:39

Tgt Ion:129 Resp: 60904

Ion Ratio Lower Upper

129 100

127 76.3 38.6 116.0



Abundance Ion 128.80 (128.50 to 129.50): VU024502.D (-2439) (-)

Ion 126.80 (126.50 to 127.50): VU024502.D (-2439) (-)

8.48

40000

30000

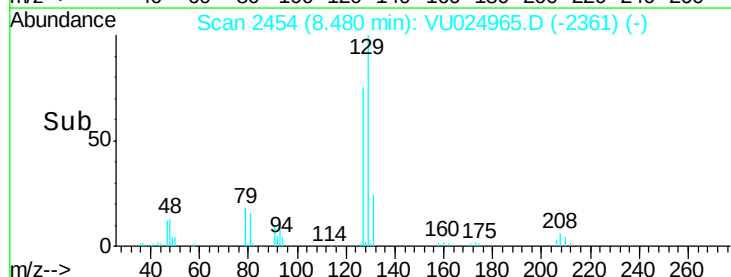
20000

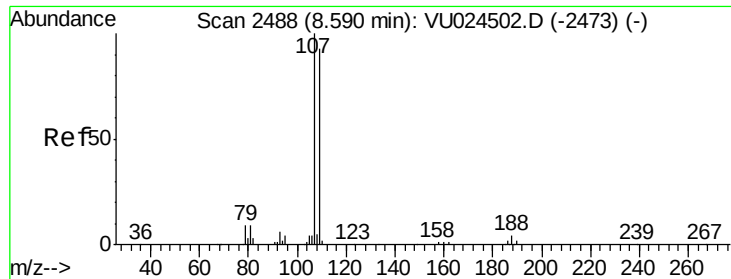
10000

0

8.40 8.45 8.50 8.55

Time-->





#61

1,2-Dibromoethane

Concen: 20.80 ug/l

RT: 8.59 min Scan# 2488

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion:107 Resp: 58967

Ion Ratio Lower Upper

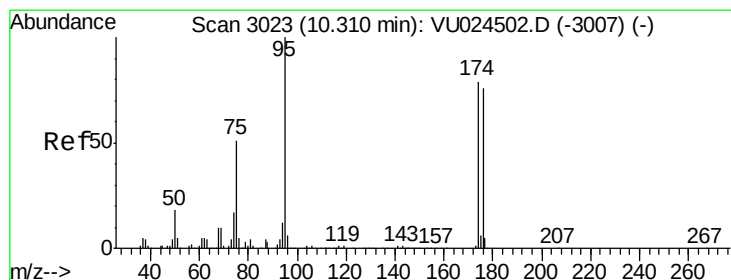
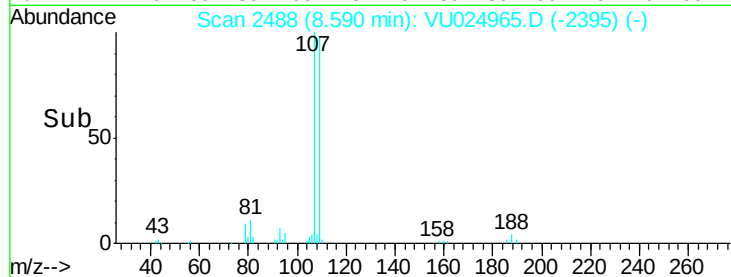
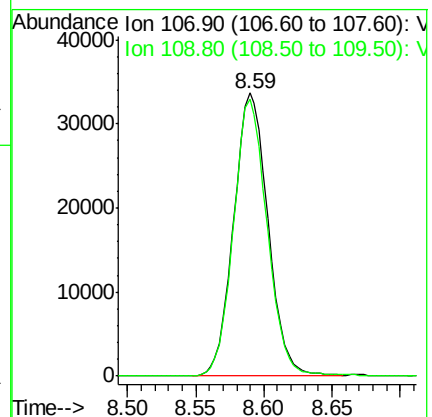
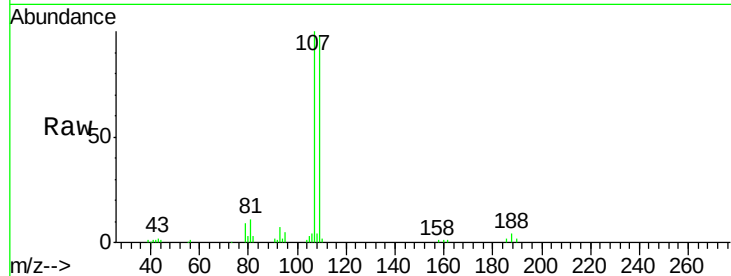
107 100

109 95.9 74.5 111.7

Manual Integrations
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6/28/2018 4:37:02 PM



#62

4-Bromofluorobenzene

Concen: 49.20 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

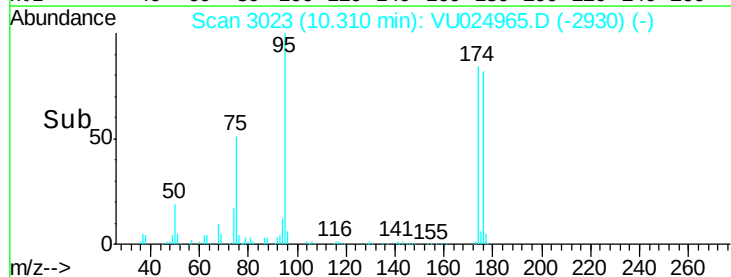
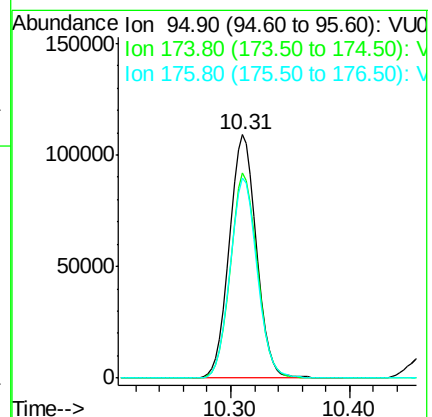
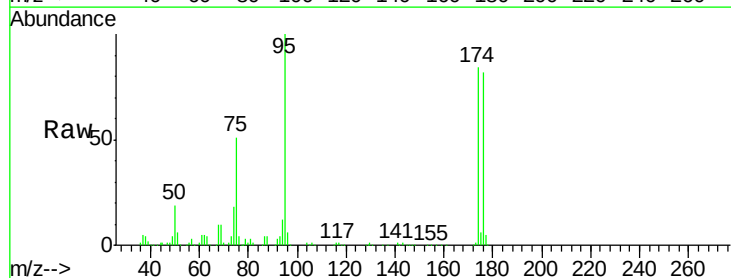
Tgt Ion: 95 Resp: 171977

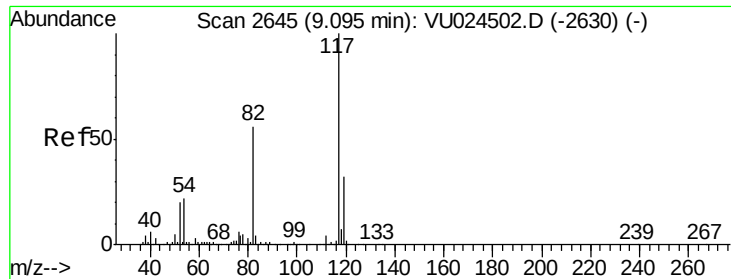
Ion Ratio Lower Upper

95 100

174 83.4 0.0 165.8

176 81.9 0.0 159.4





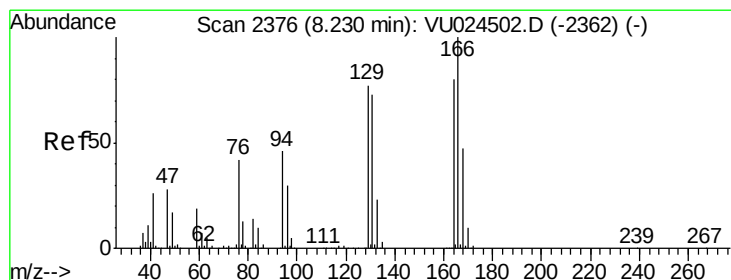
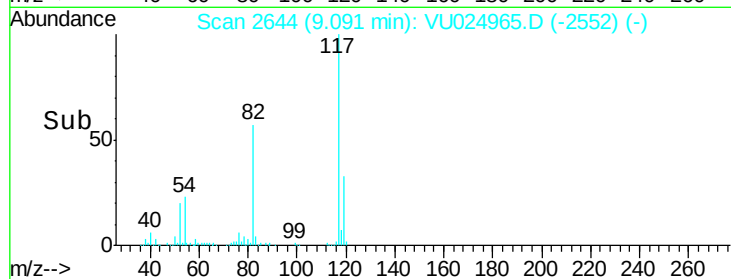
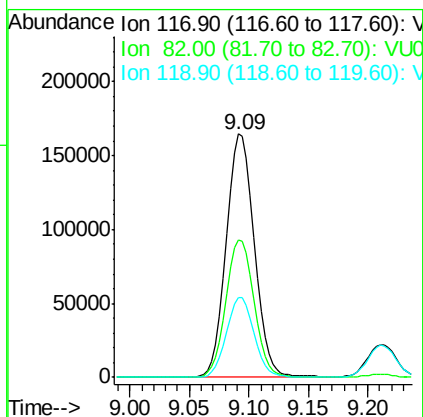
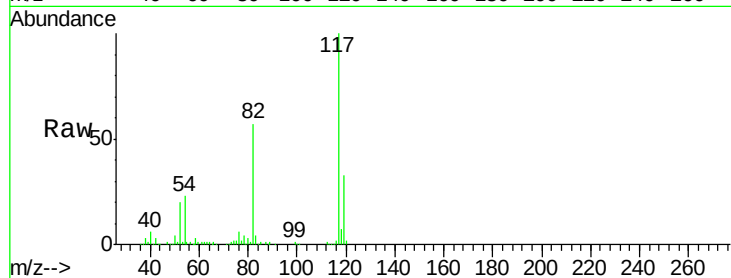
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Resp	Lower	Upper
117	100	271169		
82	56.6	44.3	66.5	
119	33.0	25.4	38.2	

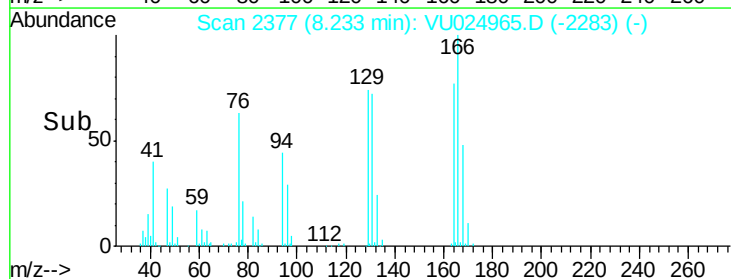
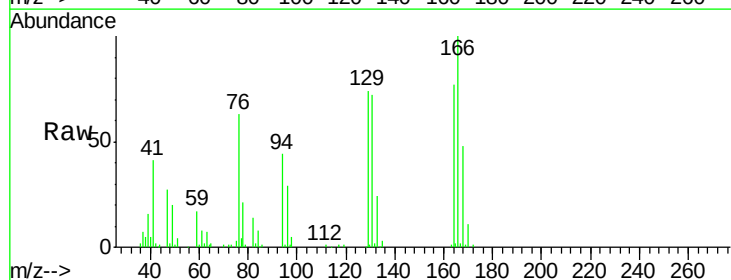
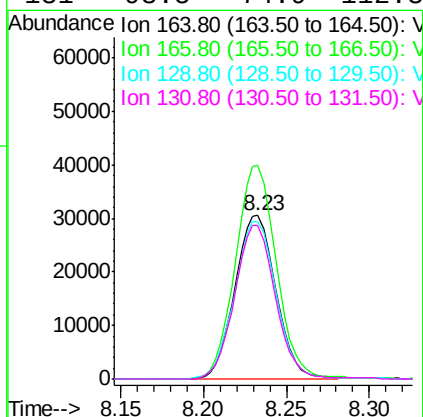
Manual Integrations
APPROVED

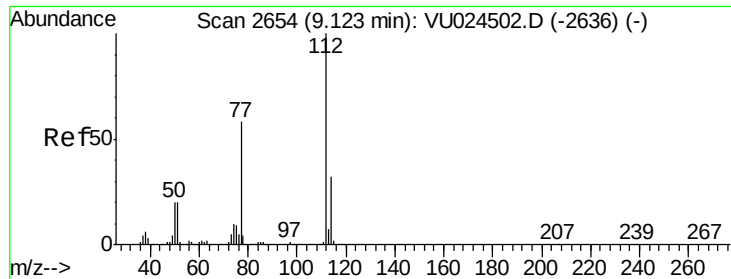
MMDadoda
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#64
Tetrachloroethene
Concen: 20.42 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	52628		
166	130.4	101.7	152.5	
129	96.5	76.9	115.3	
131	93.5	74.9	112.3	





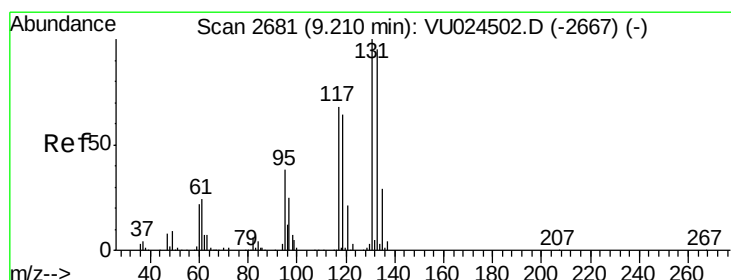
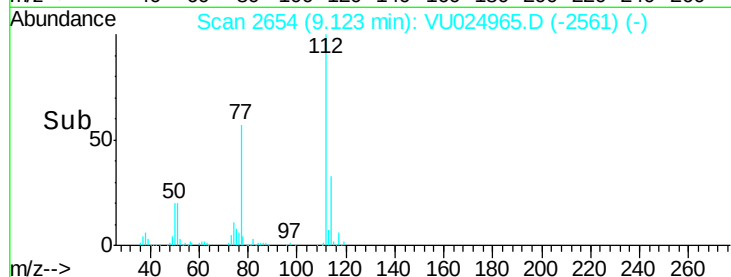
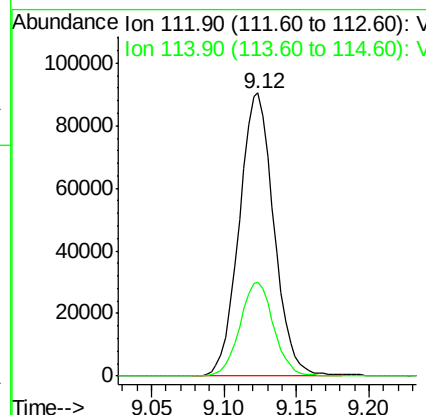
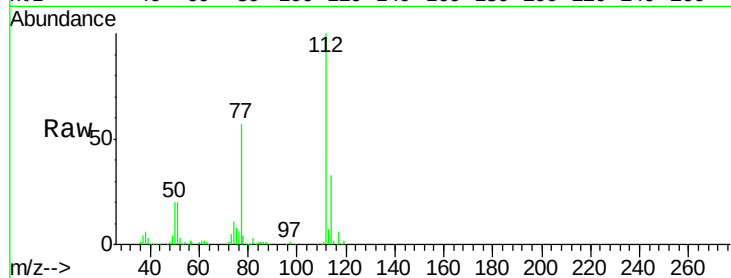
#65
Chlorobenzene
Concen: 21.70 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.3	25.6	38.4

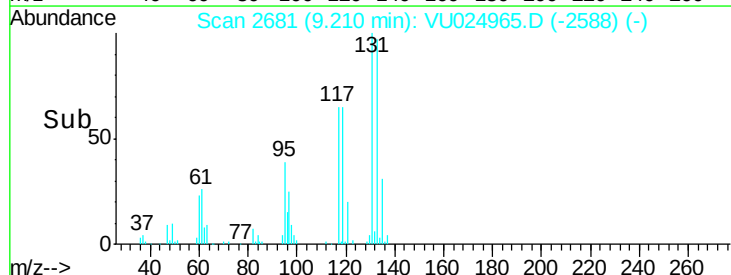
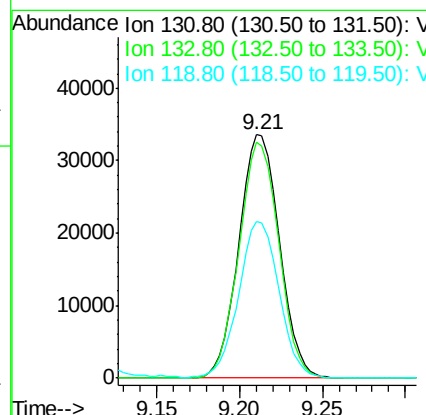
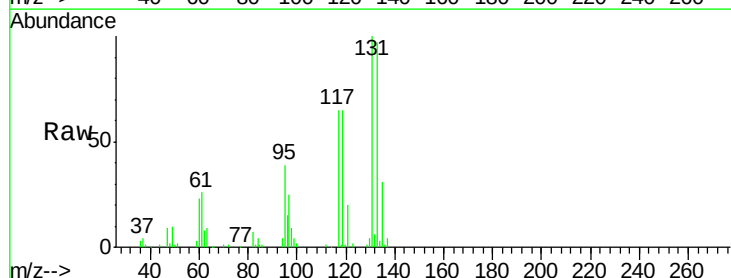
Manual Integrations
APPROVED

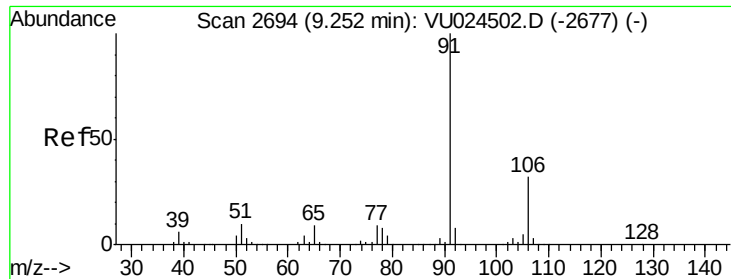
MMDadoda
6/28/2018 4:37:02 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.79 ug/l
RT: 9.21 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	46.9	140.8
119	63.8	33.5	100.4





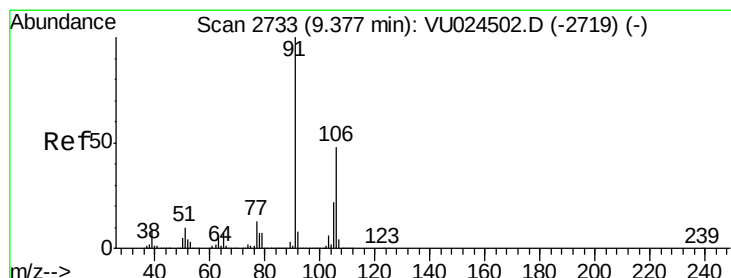
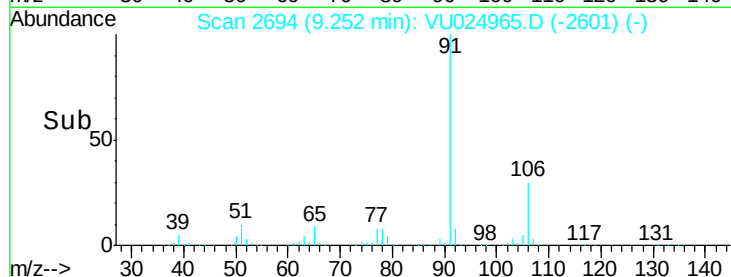
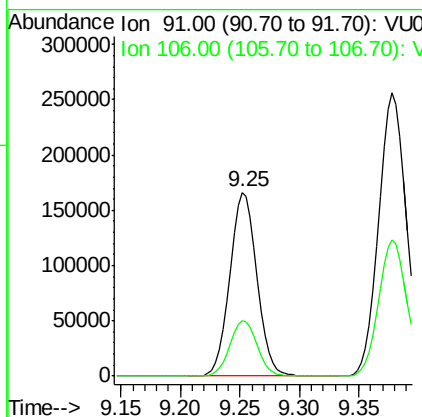
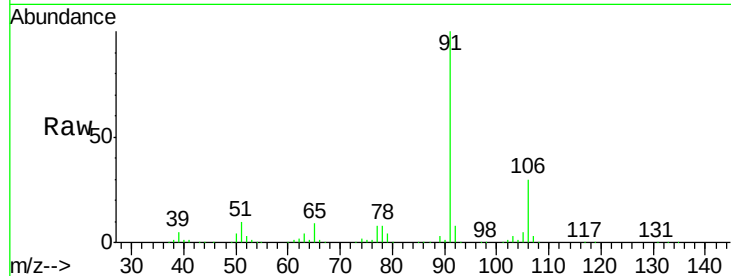
#67
Ethyl Benzene
Concen: 21.63 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion: 91 Resp: 262717
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.4

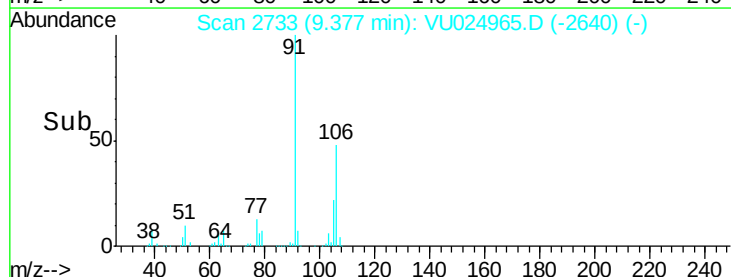
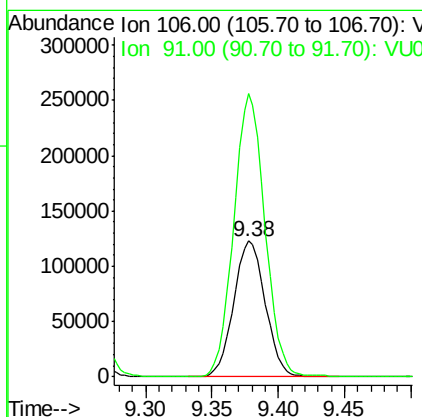
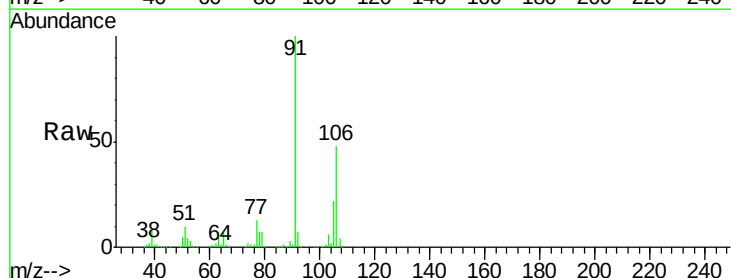
Manual Integrations
APPROVED

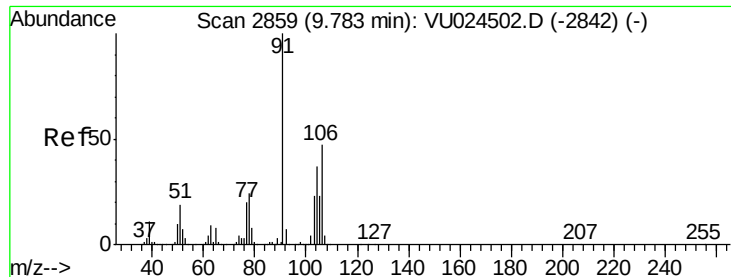
MMDadoda
6/28/2018 4:37:02 PM



#68
m/p-Xylenes
Concen: 43.62 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion: 106 Resp: 203414
Ion Ratio Lower Upper
106 100
91 205.1 166.5 249.7





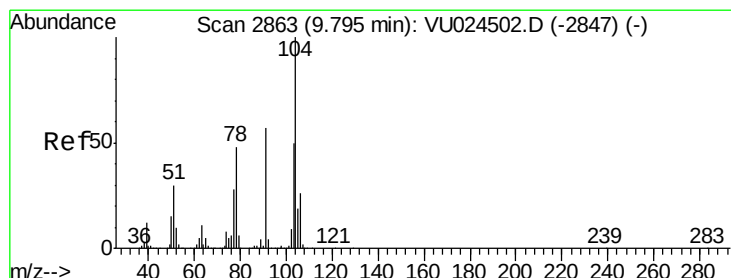
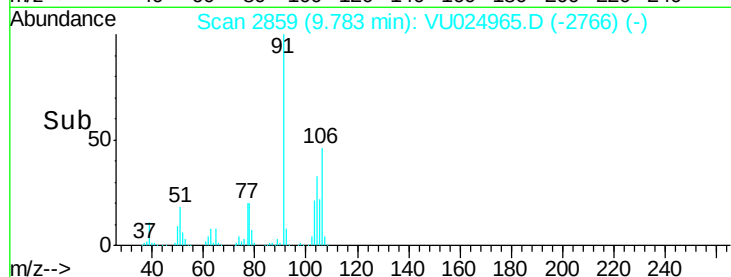
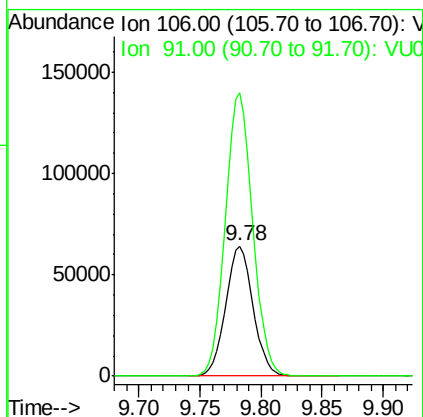
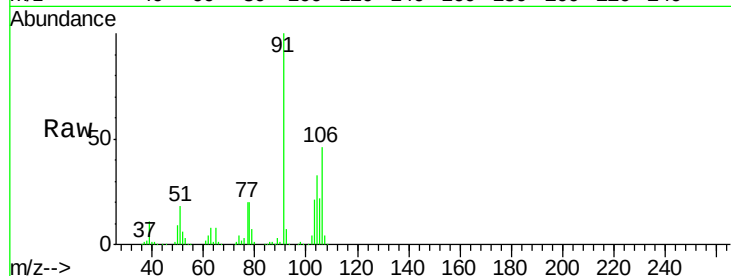
#69
o-Xylene
Concen: 21.90 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
106	100		
91	217.9	110.7	331.9

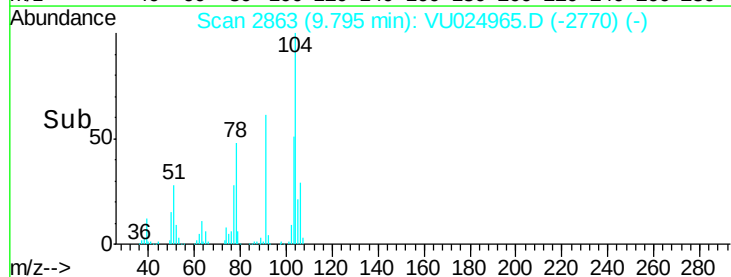
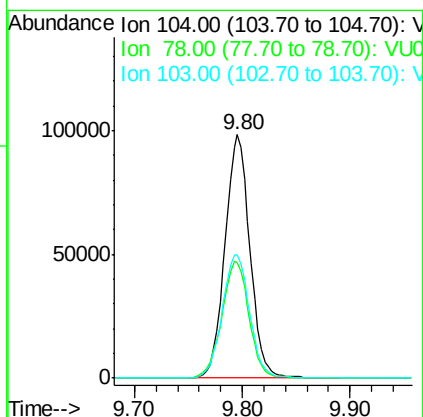
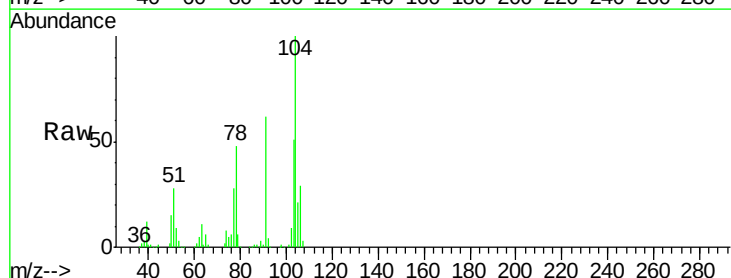
Manual Integrations
APPROVED

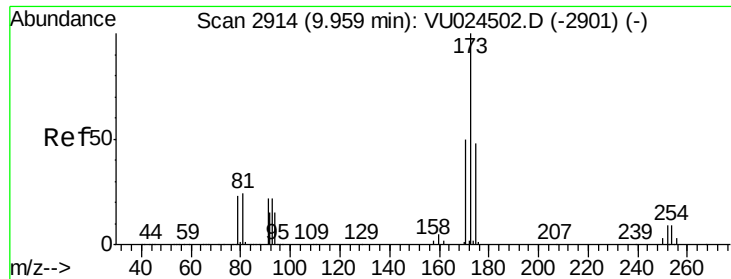
MMDadoda
6/28/2018 4:37:02 PM



#70
Styrene
Concen: 20.88 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.2	40.6	60.8
103	55.5	44.7	67.1





#71

Bromoform

Concen: 18.73 ug/l

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

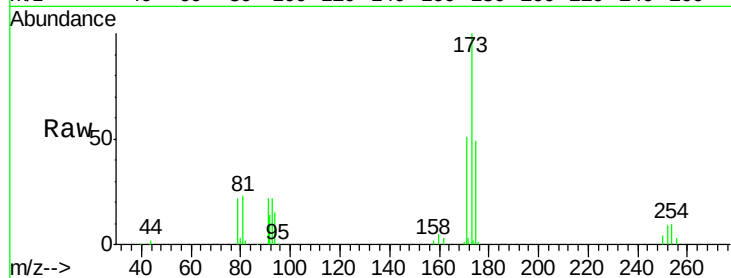
ClientSampleId :

VU0627MBSD03

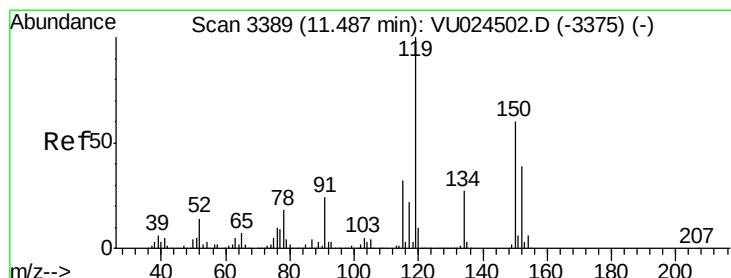
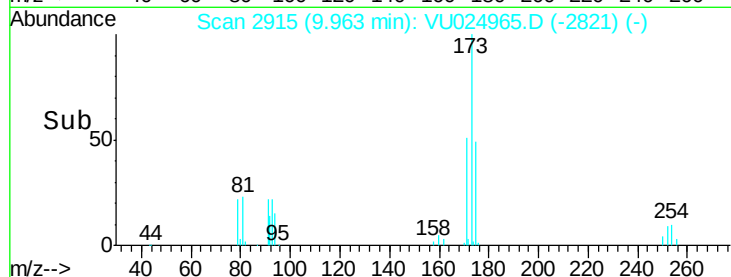
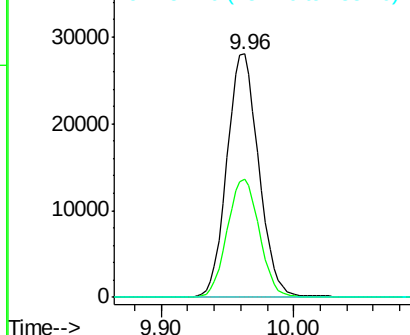
Tot Ion:	173	Resp:	46866
Ion Ratio	Lower	Upper	
173	100		
175	49.0	24.6	74.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

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6/28/2018 4:37:02 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

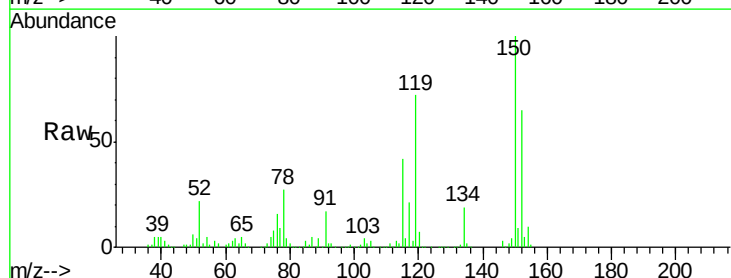
RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

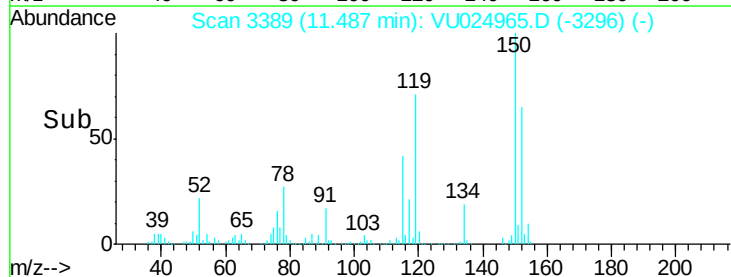
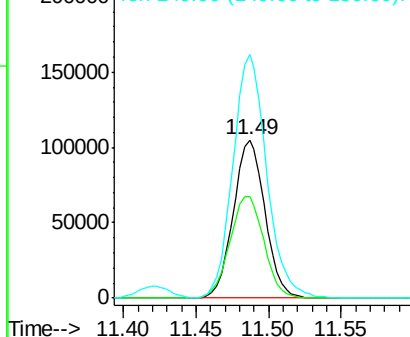
Lab File: VU024965.D

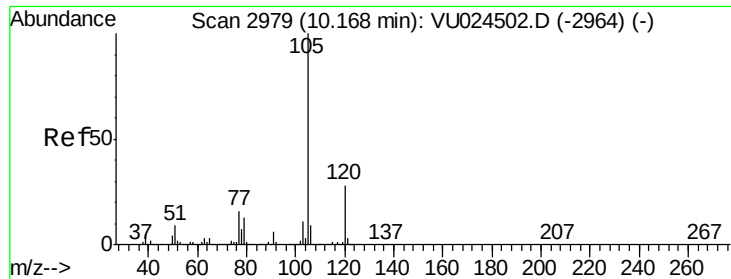
Acq: 27 Jun 2018 14:39

Tgt Ion:	152	Resp:	158678
Ion Ratio	Lower	Upper	
152	100		
115	69.0	43.0	129.0
150	164.9	0.0	354.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.29 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 105 Resp: 271499

Ion Ratio Lower Upper

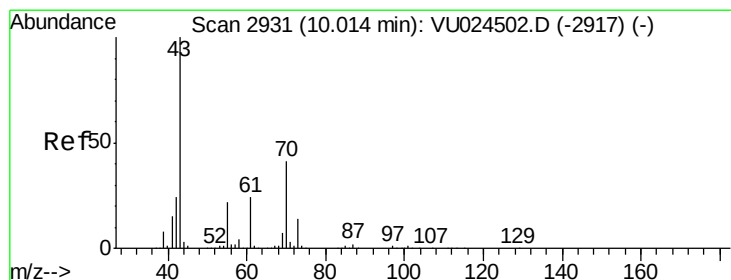
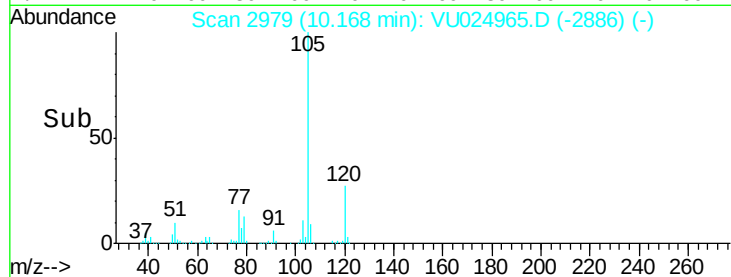
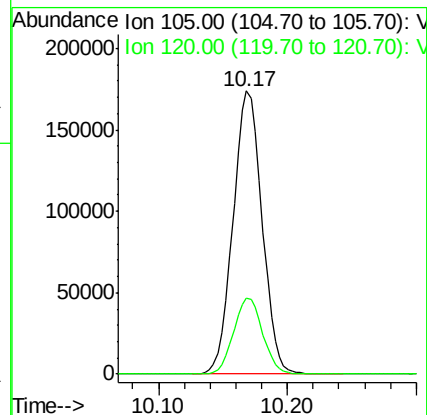
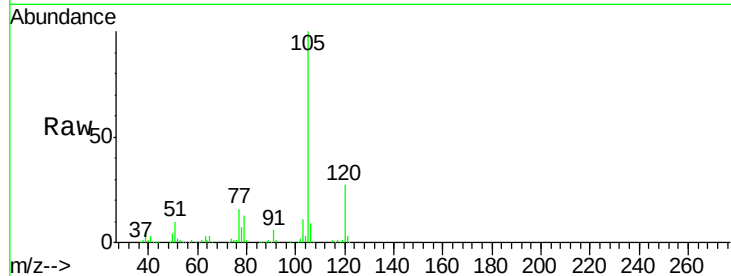
105 100

120 26.9 13.2 39.6

Manual Integrations
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#74

N-ethyl acetate

Concen: 19.27 ug/l

RT: 10.01 min Scan# 2931

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Tgt Ion: 43 Resp: 111646

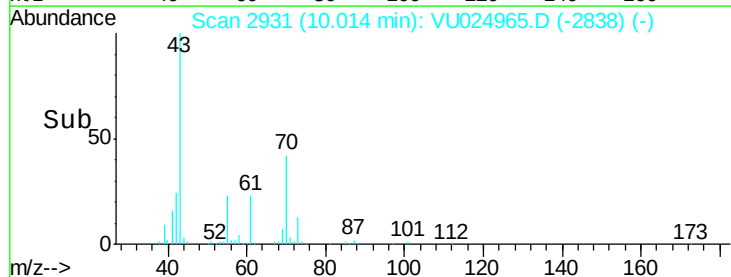
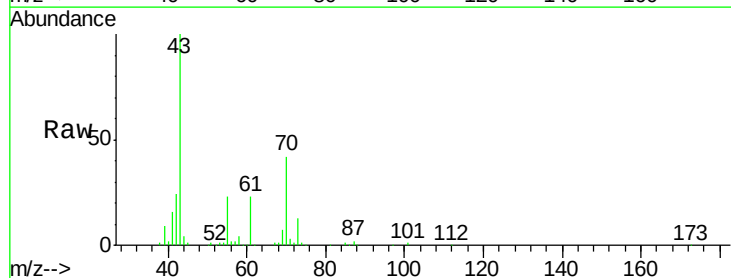
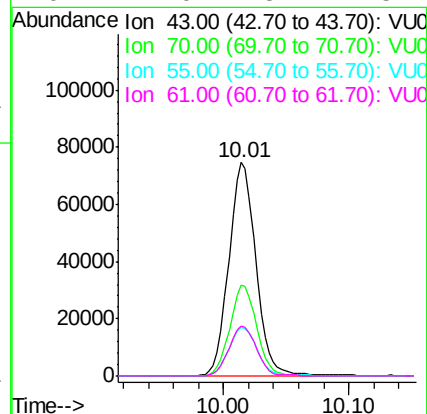
Ion Ratio Lower Upper

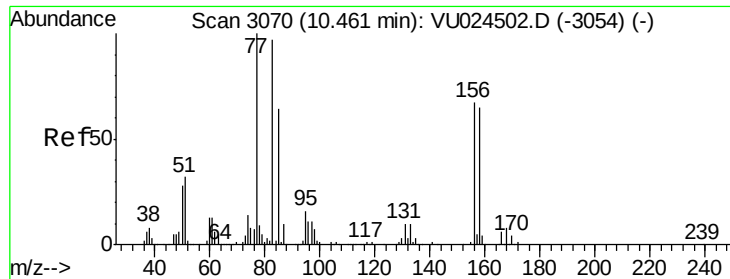
43 100

70 42.3 32.2 48.4

55 23.8 20.5 30.7

61 24.0 18.7 28.1





#75

1,1,2,2-Tetrachloroethane

Concen: 21.51 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 83 Resp: 87823

Ion Ratio Lower Upper

83 100

131 11.2 4.7 14.1

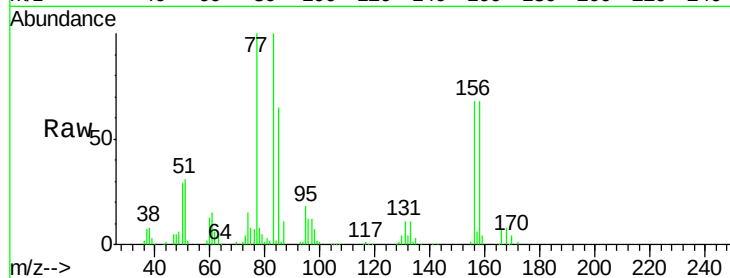
85 65.4 32.5 97.5

Manual Integrations

APPROVED

MMDadoda

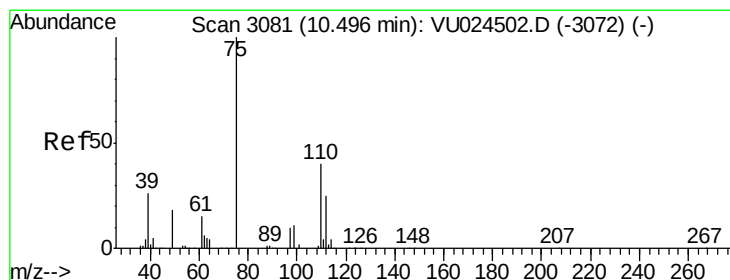
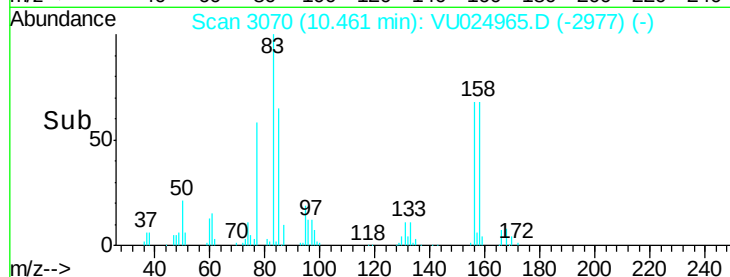
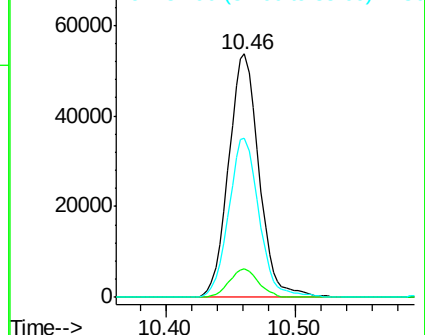
6/28/2018 4:37:02 PM



Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 130.80 (130.50 to 131.50): VU0

Ion 84.90 (84.60 to 85.60): VU0



#76

1,2,3-Trichloropropane

Concen: 23.15 ug/l m

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU024965.D

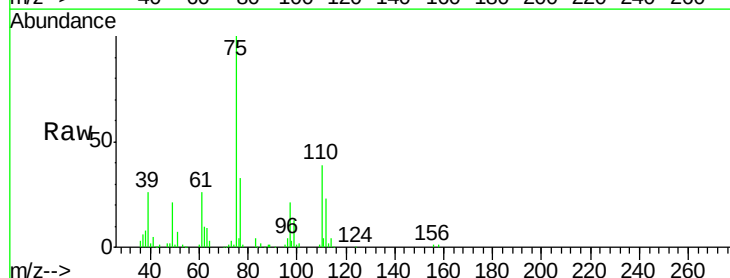
Acq: 27 Jun 2018 14:39

Tgt Ion: 75 Resp: 80876

Ion Ratio Lower Upper

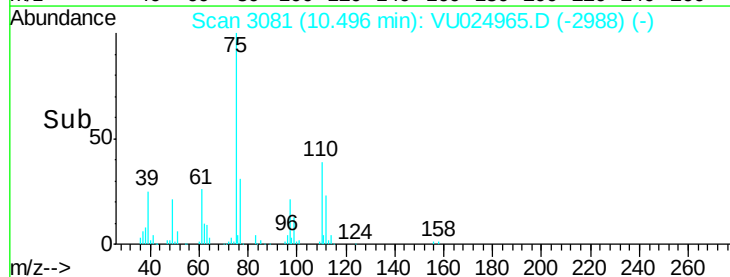
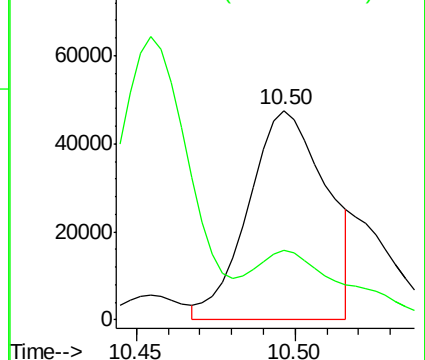
75 100

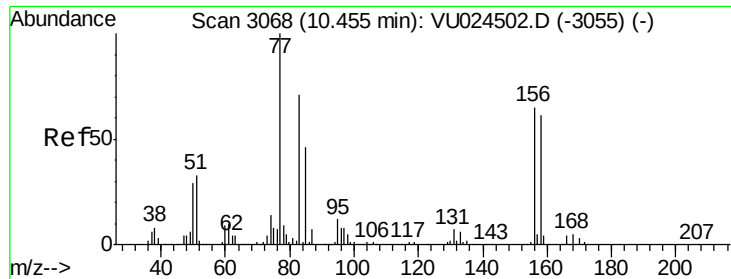
77 39.0 20.9 62.7



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





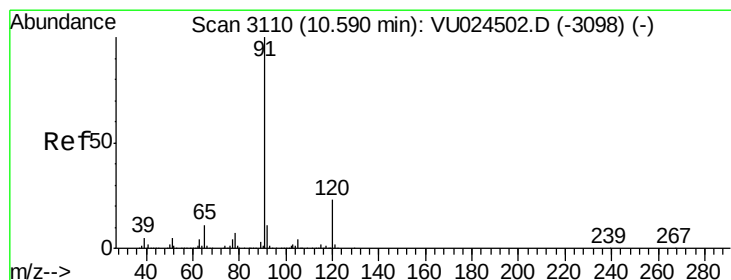
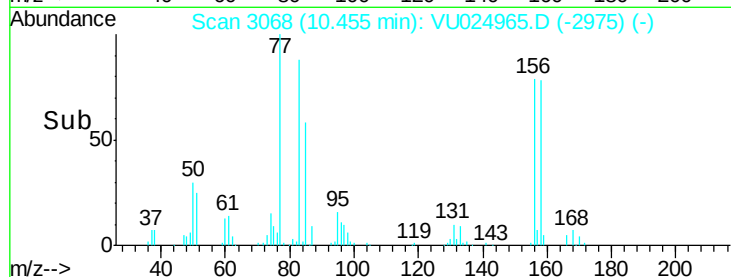
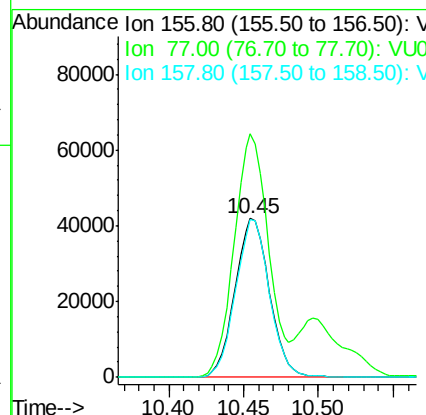
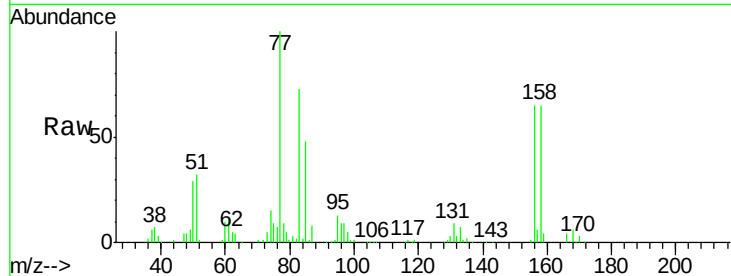
#77
Bromobenzene
Concen: 21.83 ug/l
RT: 10.45 min Scan# 3068
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
156	100		
77	152.7	80.5	241.3
158	97.5	48.2	144.6

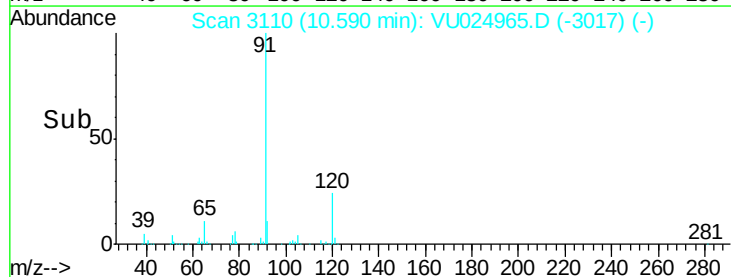
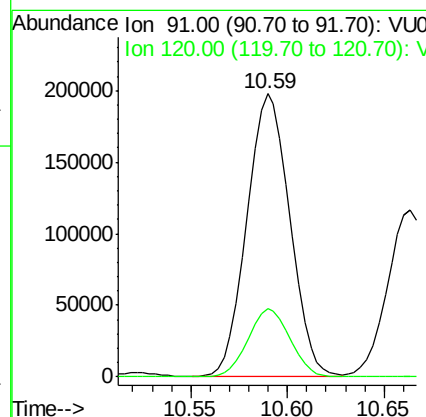
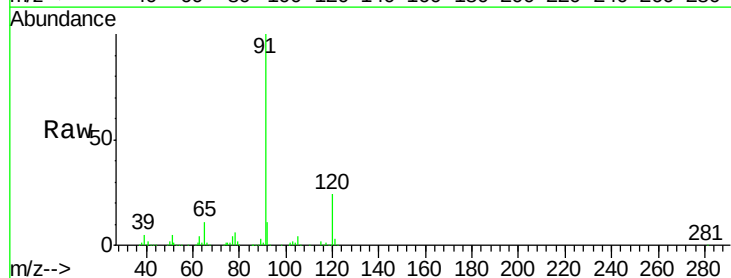
Manual Integrations
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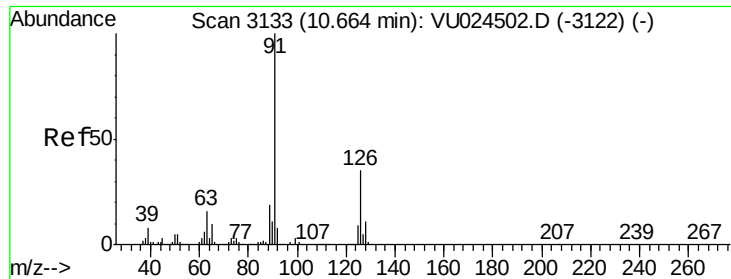
MMDadoda
6/28/2018 4:37:02 PM



#78
n-propylbenzene
Concen: 21.26 ug/l
RT: 10.59 min Scan# 3110
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.2	33.5





#79

2-Chlorotoluene

Concen: 21.91 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion: 91 Resp: 185448

Ion Ratio Lower Upper

91 100

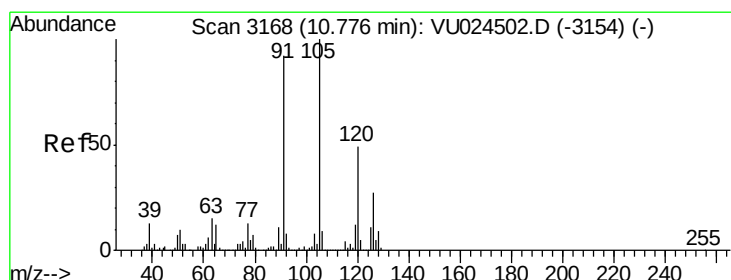
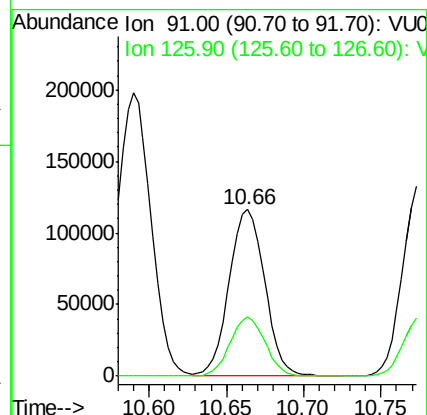
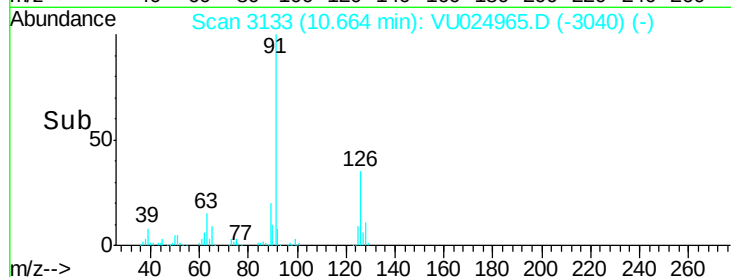
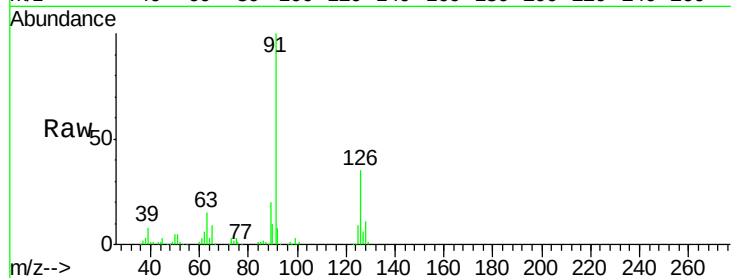
126 35.0 16.9 50.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.97 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VU024965.D

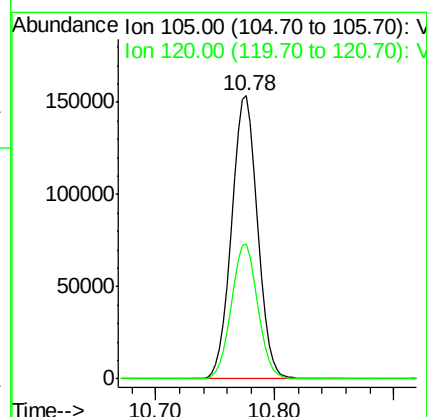
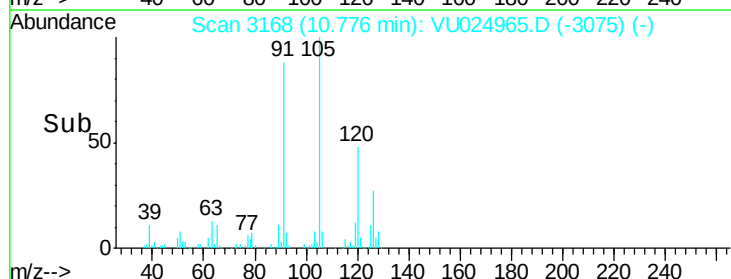
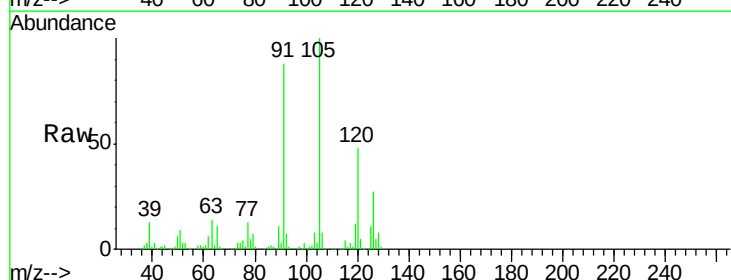
Acq: 27 Jun 2018 14:39

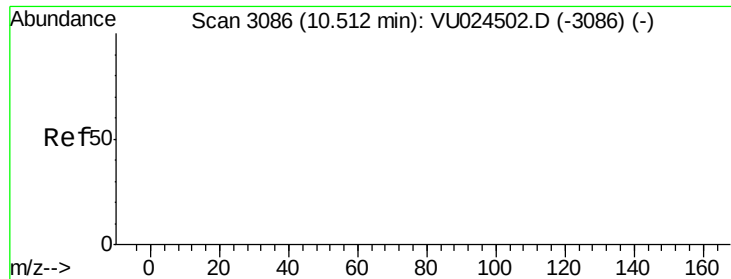
Tgt Ion: 105 Resp: 232000

Ion Ratio Lower Upper

105 100

120 48.3 24.1 72.2





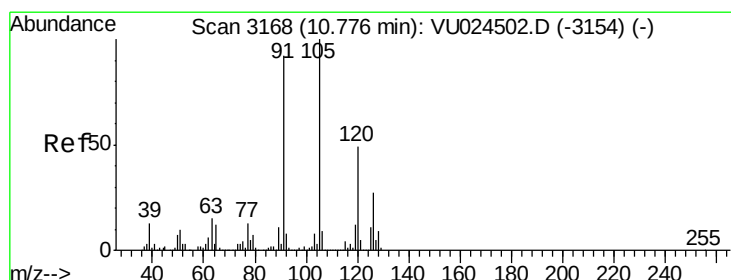
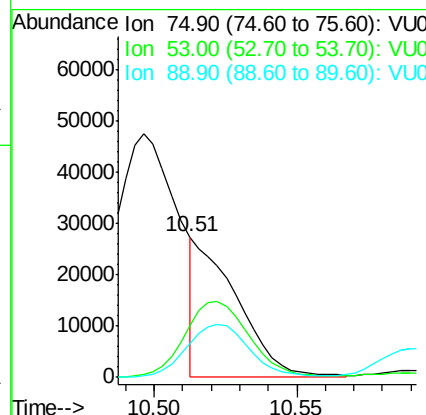
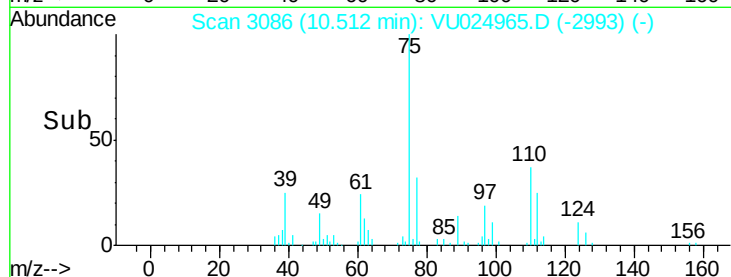
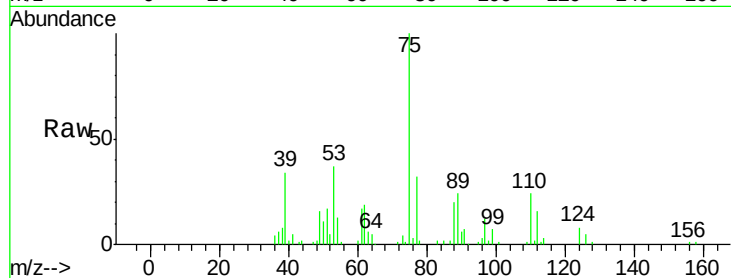
#81
trans-1,4-Dichloro-2-butene
Concen: 18.62 ug/l m
RT: 10.51 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

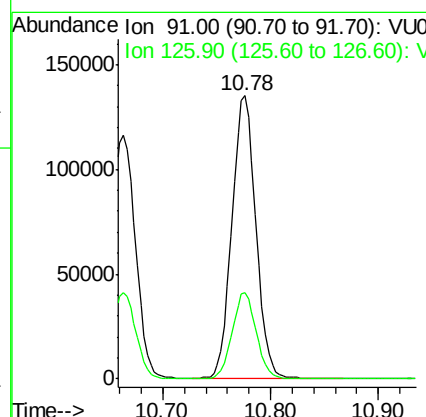
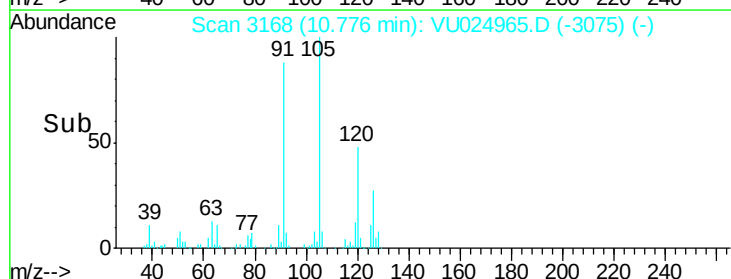
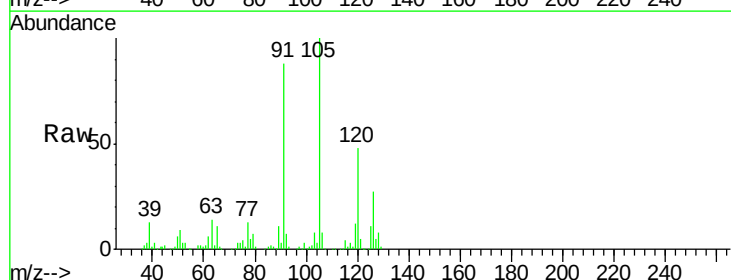
Manual Integrations
APPROVED

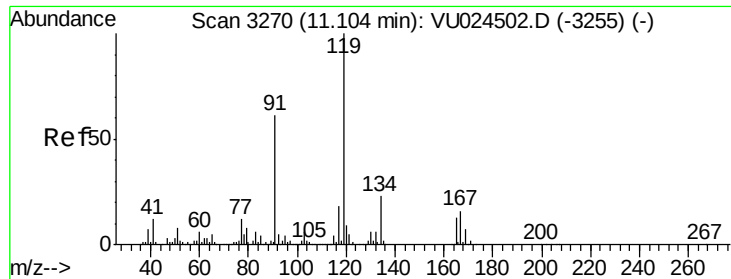
MMDadoda
6/28/2018 4:37:02 PM



#82
4-Chlorotoluene
Concen: 21.26 ug/l
RT: 10.78 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.6	14.9	44.9





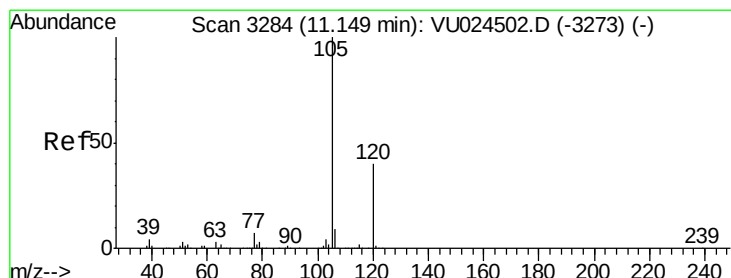
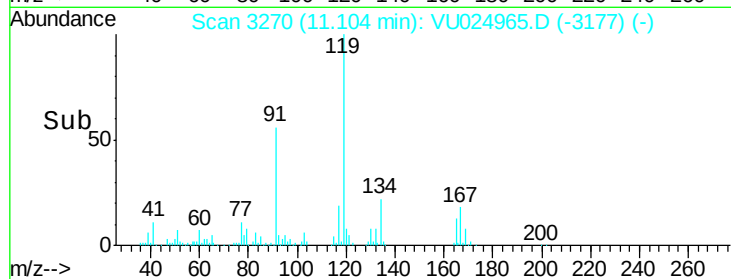
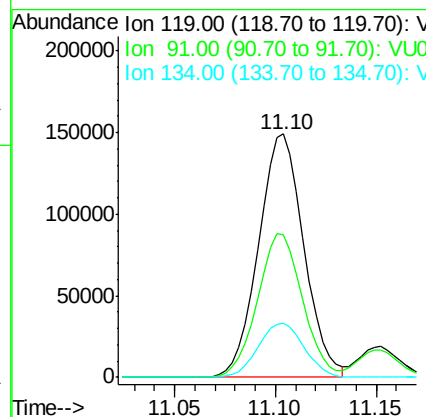
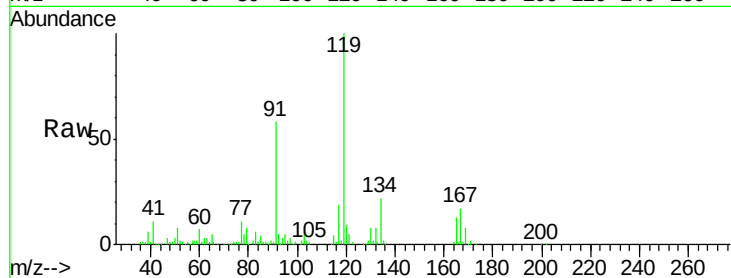
#83
 tert-Butylbenzene
 Concen: 22.95 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion	Ratio	Resp	Lower	Upper
119	100	233156		
91	59.0	29.7	89.1	
134	22.7	11.6	34.7	

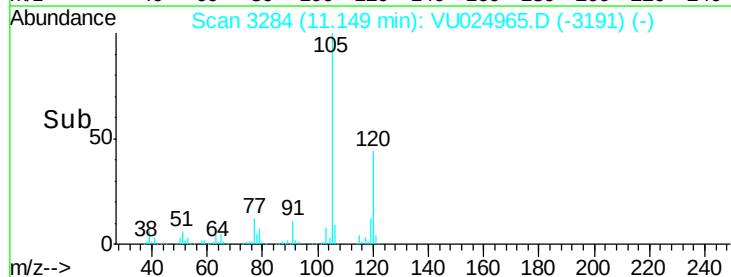
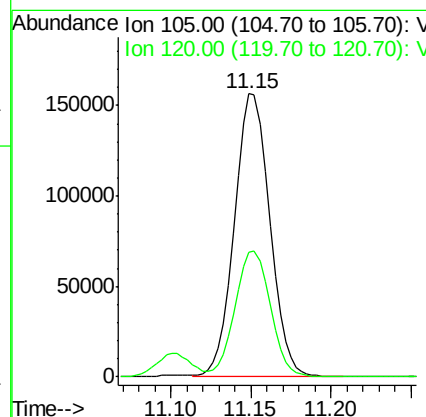
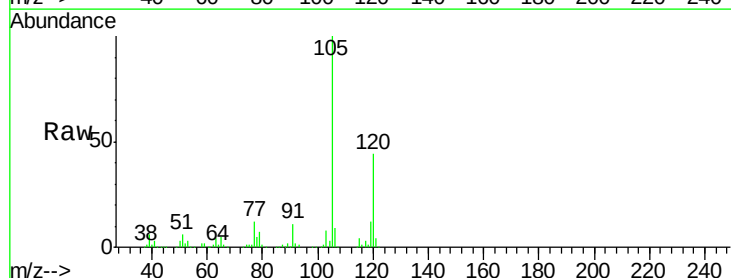
Manual Integrations
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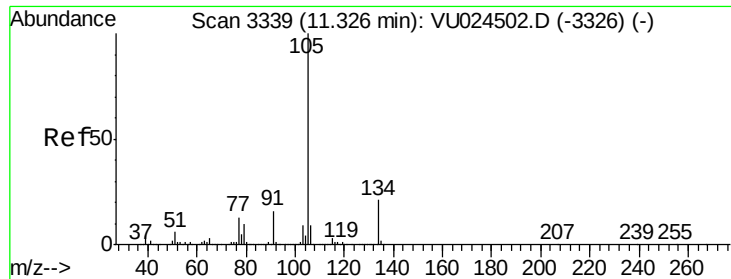
MMDadoda
 6/28/2018 4:37:02 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.77 ug/l
 RT: 11.15 min Scan# 3284
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	234263		
120	44.7	22.6	67.8	





#85

sec-Butylbenzene

Concen: 21.69 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

ClientSampleId :

VU0627MBSD03

Tot Ion:105 Resp: 275756

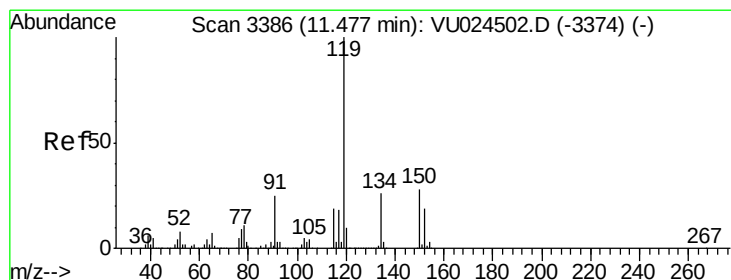
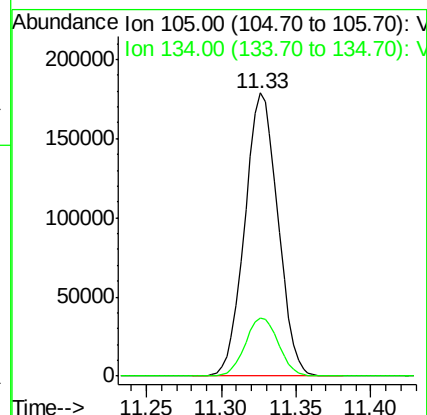
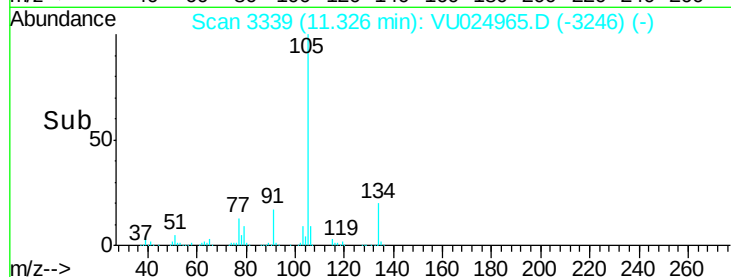
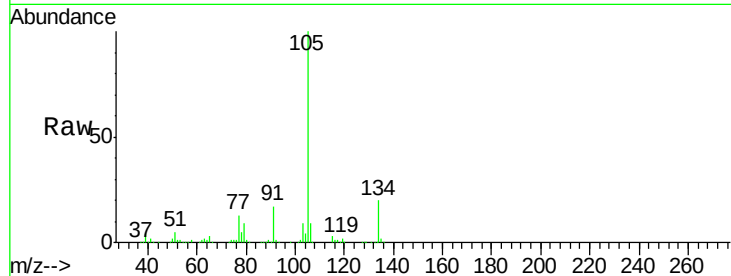
Ion Ratio Lower Upper

105 100

134 20.7 9.7 29.1

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 21.58 ug/l

RT: 11.48 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

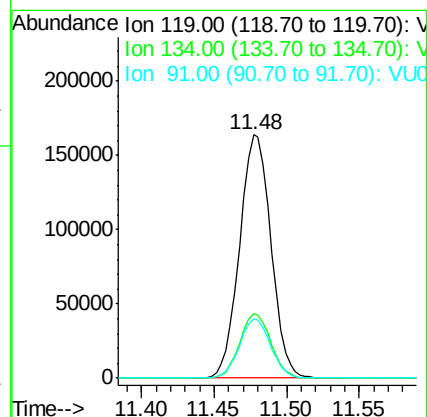
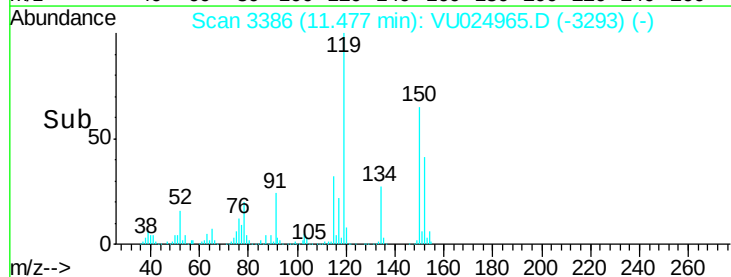
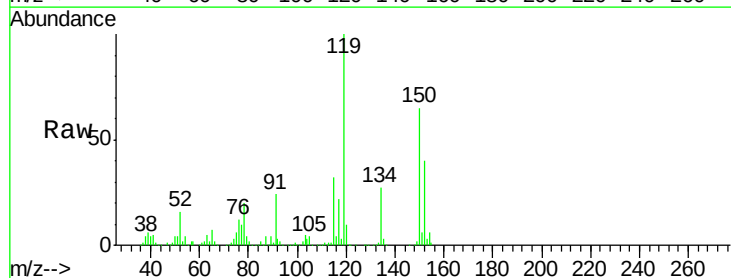
Tgt Ion:119 Resp: 245692

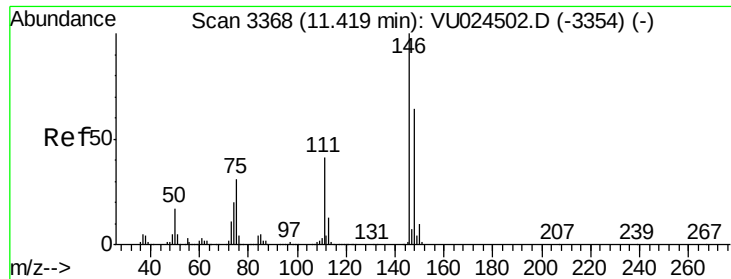
Ion Ratio Lower Upper

119 100

134 26.4 12.9 38.6

91 24.3 12.0 36.1





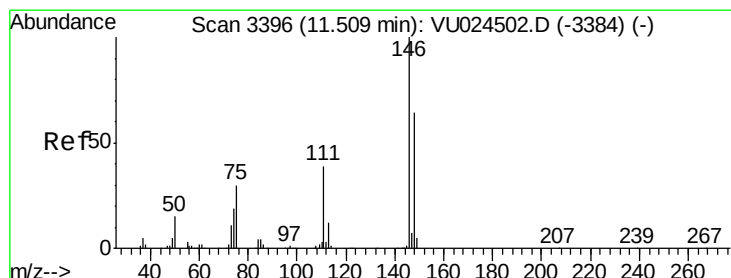
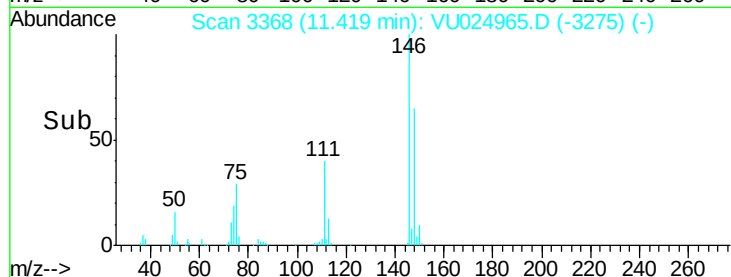
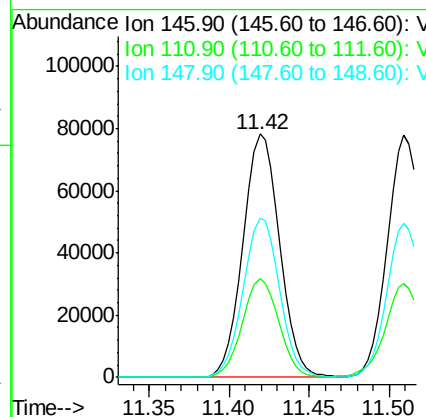
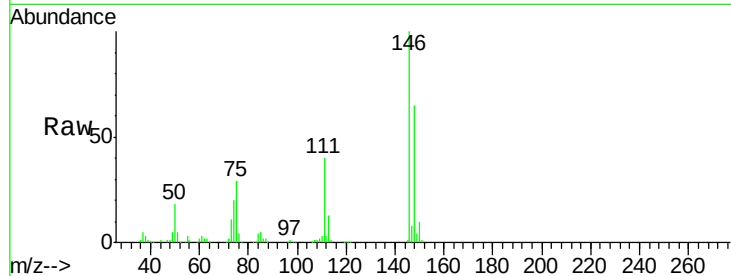
#87
 1,3-Dichlorobenzene
 Concen: 21.43 ug/l
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.0	60.0
148	64.9	32.1	96.5

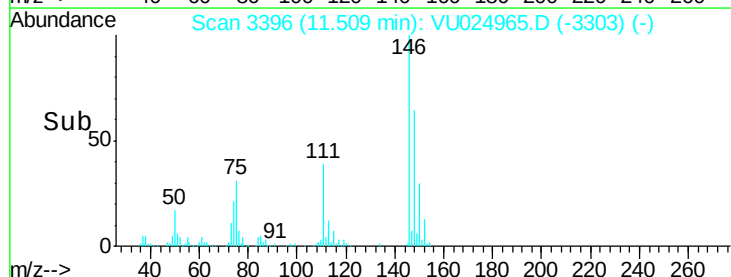
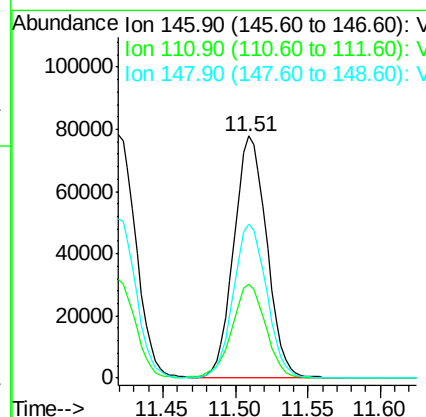
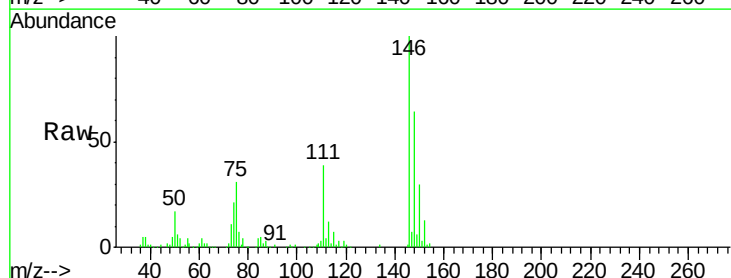
Manual Integrations
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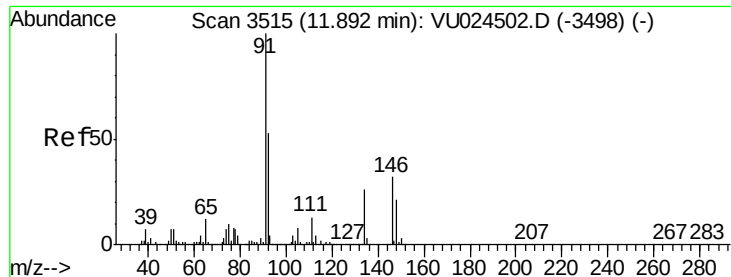
MMDadoda
 6/28/2018 4:37:02 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.45 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.5	58.5
148	64.5	32.4	97.0





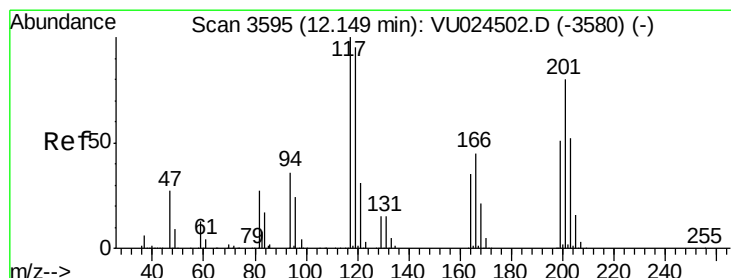
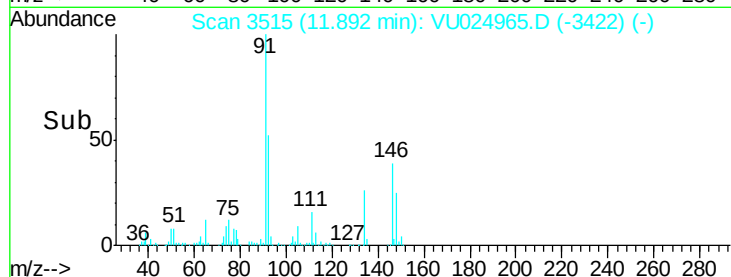
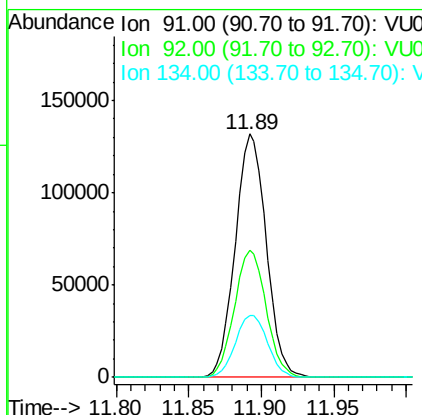
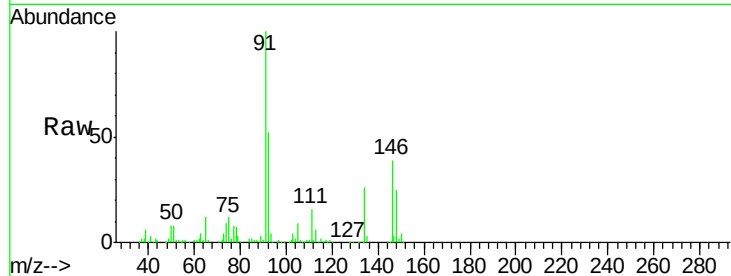
#89
n-Butylbenzene
Concen: 19.45 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Instrument :
MSVOA_U
ClientSampleId :
VU0627MBSD03

Tot Ion	Ratio	Resp	Lower	Upper
91	100	196605		
92	53.1		25.6	76.8
134	26.2		12.3	36.8

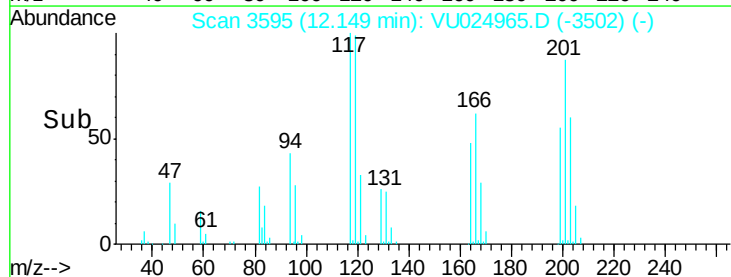
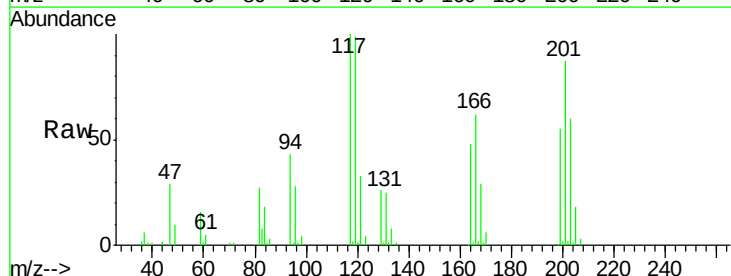
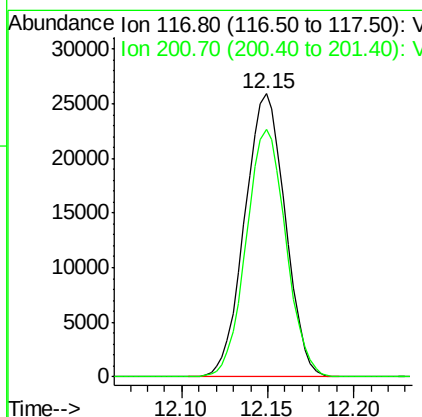
Manual Integrations
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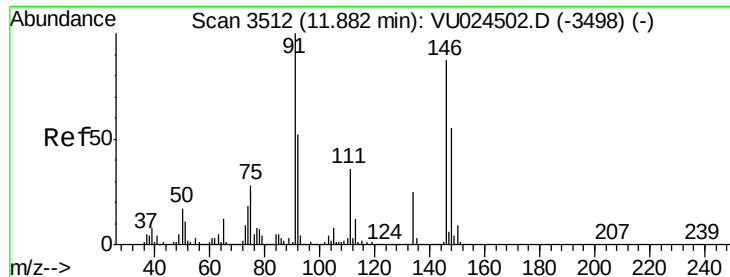
MMDadoda
6/28/2018 4:37:02 PM



#90
Hexachloroethane
Concen: 19.06 ug/l
RT: 12.15 min Scan# 3595
Delta R.T. -0.00 min
Lab File: VU024965.D
Acq: 27 Jun 2018 14:39

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	42339		
201	85.5		41.1	123.3





#91

1,2-Dichlorobenzene

Concen: 22.06 ug/l

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

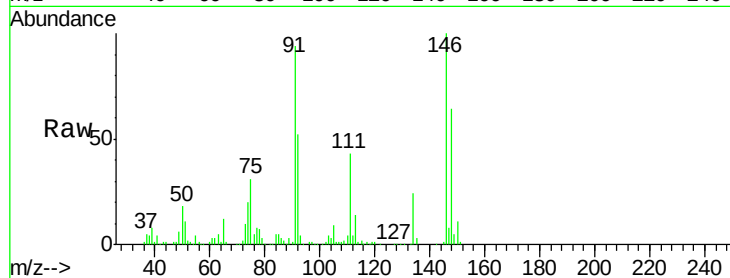
ClientSampled :

VU0627MBSD03

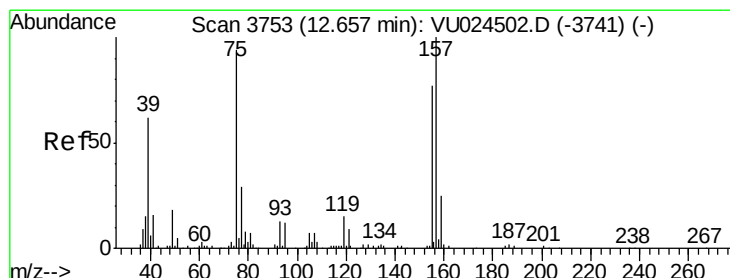
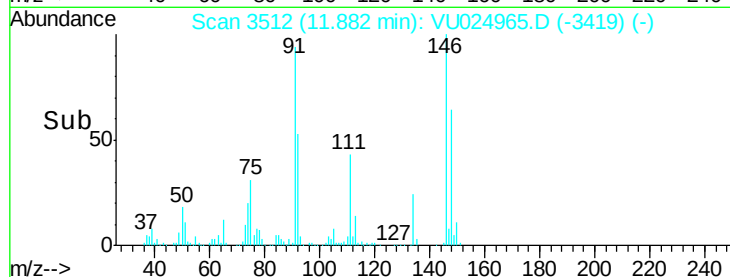
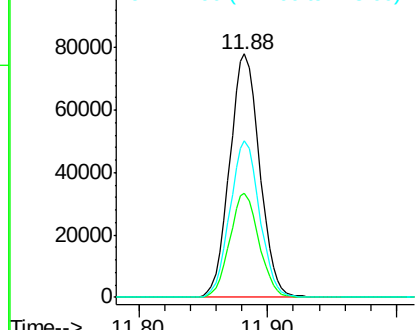
Tot Ion:	146	Resp:	125907
Ion Ratio	Lower	Upper	
146	100		
111	41.7	20.5	61.6
148	63.6	31.9	95.7

Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.09 ug/l

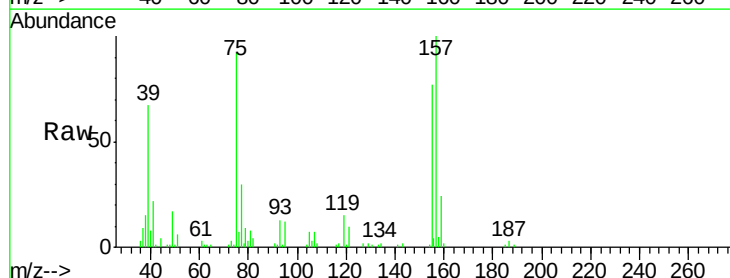
RT: 12.66 min Scan# 3753

Delta R.T. -0.00 min

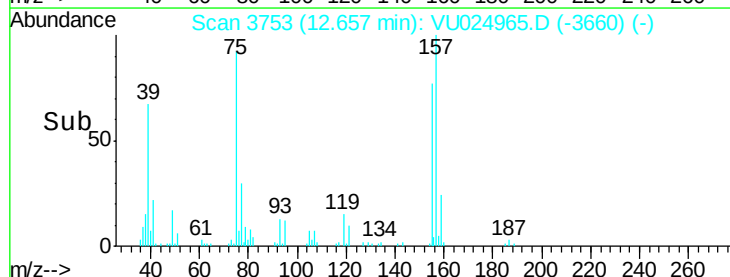
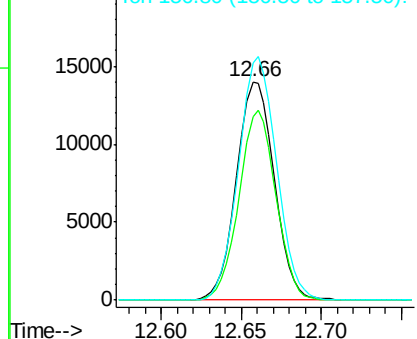
Lab File: VU024965.D

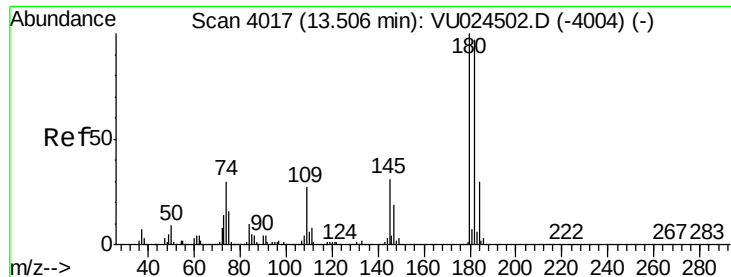
Acq: 27 Jun 2018 14:39

Tgt Ion:	75	Resp:	22635
Ion Ratio	Lower	Upper	
75	100		
155	84.4	40.4	121.2
157	111.8	52.3	156.8



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





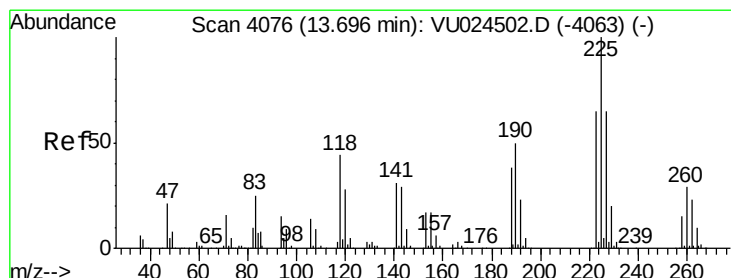
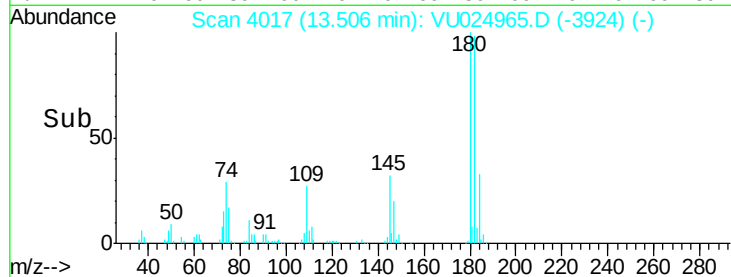
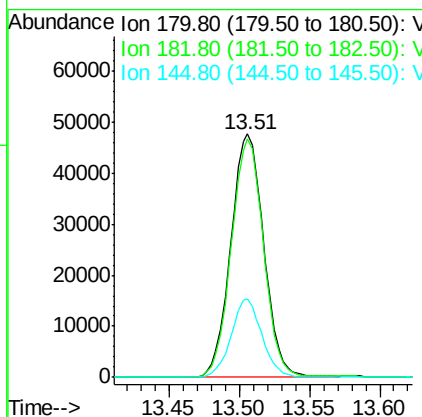
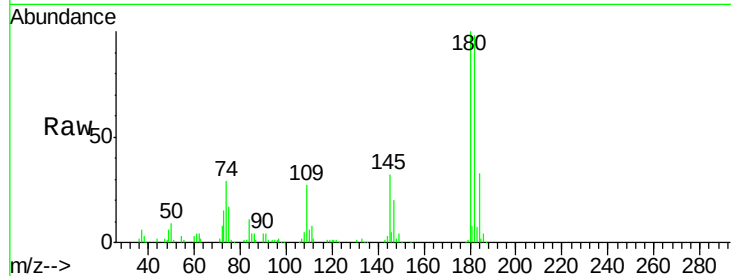
#93
 1,2,4-Trichlorobenzene
 Concen: 22.20 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0627MBSD03

Tot Ion:	180	Resp:	78246
Ion Ratio	Lower	Upper	
180	100		
182	95.5	48.0	144.2
145	30.1	14.7	44.1

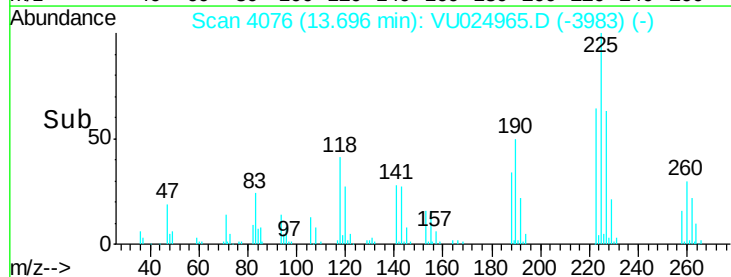
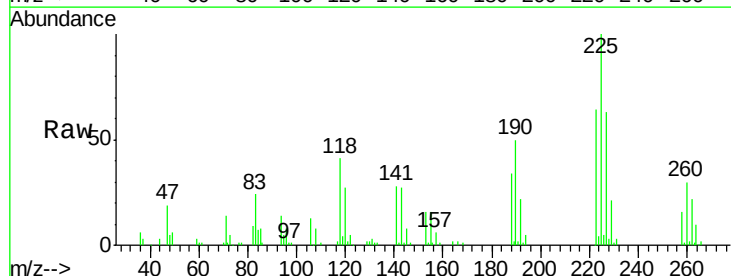
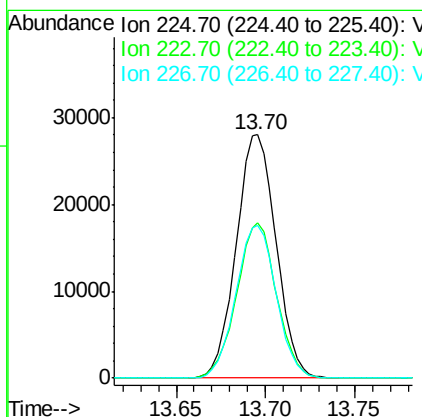
Manual Integrations
 APPROVED

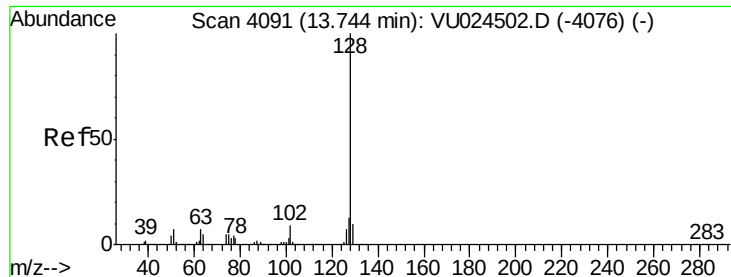
MMDadoda
 6/28/2018 4:37:02 PM



#94
 Hexachlorobutadiene
 Concen: 22.06 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. -0.00 min
 Lab File: VU024965.D
 Acq: 27 Jun 2018 14:39

Tgt Ion:	225	Resp:	43752
Ion Ratio	Lower	Upper	
225	100		
223	63.7	31.3	93.8
227	63.3	31.8	95.4





#95

Naphthalene

Concen: 22.40 ug/l

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Instrument :

MSVOA_U

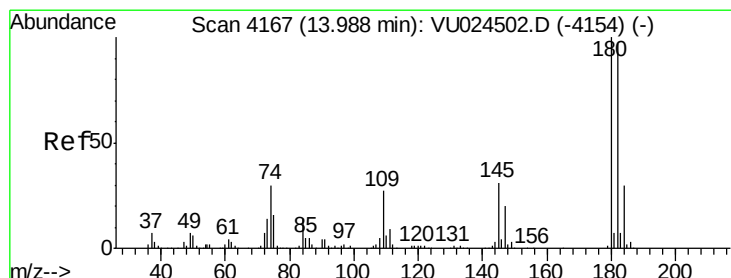
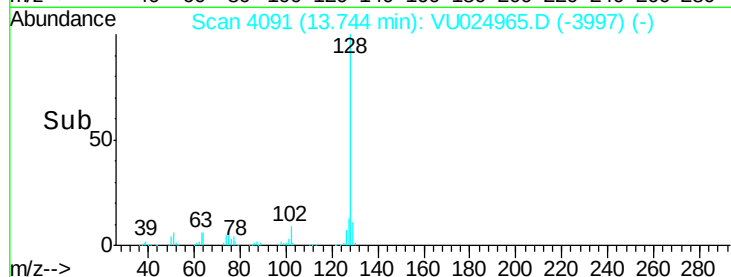
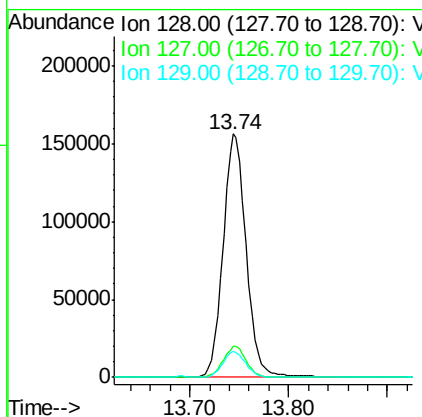
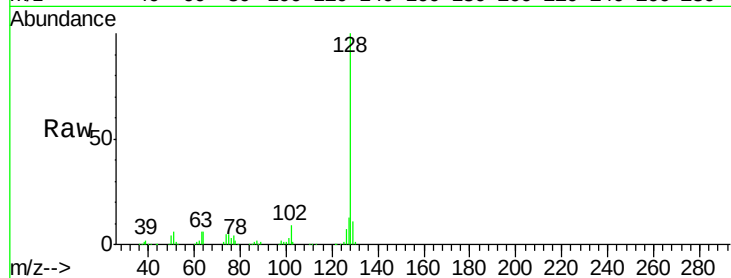
ClientSampleId :

VU0627MBSD03

Tot Ion:	128	Resp:	256963
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.6	16.0
129	10.3	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
6/28/2018 4:37:02 PM



#96

1,2,3-Trichlorobenzene

Concen: 23.84 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU024965.D

Acq: 27 Jun 2018 14:39

Tgt Ion:	180	Resp:	83719
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.9	143.7
145	31.3	15.4	46.1

