

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034519.D
 Acq On : 30 Dec 2019 19:49
 Operator : SY/AP
 Sample : K6388-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

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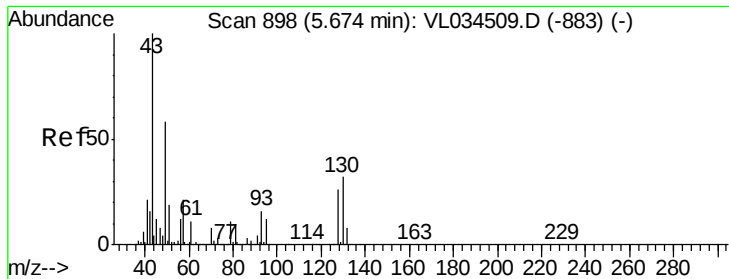
Quant Time: Dec 31 05:39:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 05:39:39 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	885210	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1777550	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1728002	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1472250	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	72012	0.516	ppbv	97
3) Chlorodifluoromethane	2.96	51	33213m	0.315	ppbv	
4) Chloromethane	3.11	50	7701	0.123	ppbv #	76
5) Vinyl Chloride	3.23	62	1994	0.033	ppbv	100
7) Chloroethane	3.53	64	75829	3.547	ppbv	100
9) Propene	2.99	41	58475m	1.438	ppbv	
11) Trichlorofluoromethane	3.93	101	45202	0.280	ppbv #	76
13) Ethanol	3.58	45	23175m	2.054	ppbv	
15) Acetone	3.83	43	135184	1.046	ppbv	96
18) 1,1-Dichloroethene	4.28	96	73582	1.644	ppbv	83
19) Isopropyl Alcohol	3.97	45	75221	0.899	ppbv #	95
20) Methylene Chloride	4.33	84	43612	0.858	ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	7598m	0.167	ppbv	
24) 1,1-Dichloroethane	5.00	63	258011	2.153	ppbv #	98
26) Hexane	5.69	57	23397m	0.275	ppbv	
34) 2-Butanone	5.26	43	12902	0.102	ppbv	96
53) Toluene	9.83	91	45014	0.264	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

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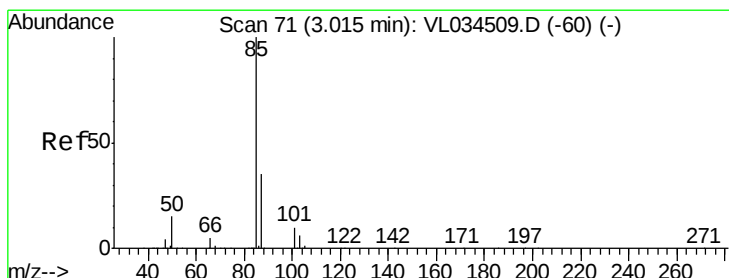
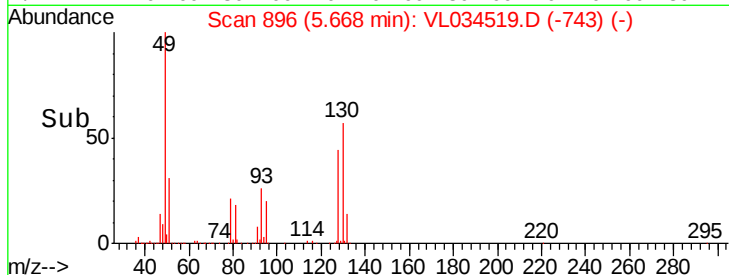
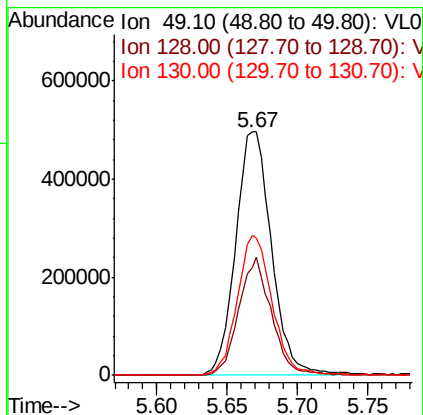
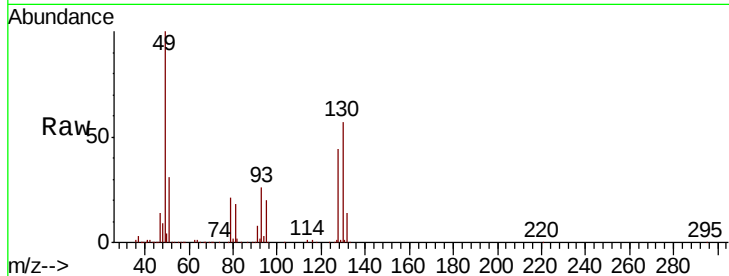
ClientSampled :

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Tot Ion:	49	Resp:	885210
Ion	Ratio	Lower	Upper
49	100		
128	44.6	22.4	67.2
130	56.4	28.3	85.0

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#2

Dichlorodifluoromethane

Concen: 0.516 ppbv

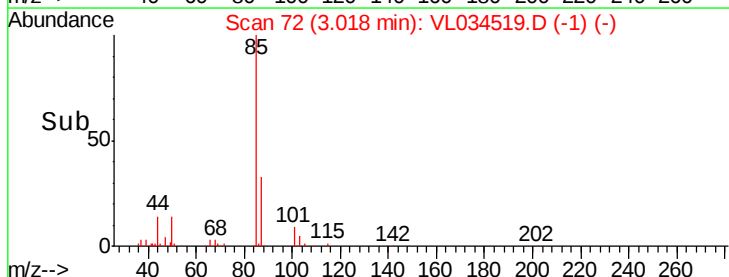
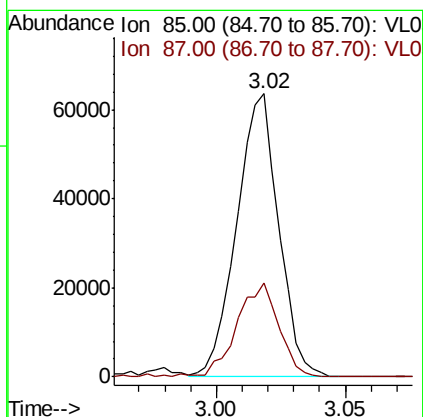
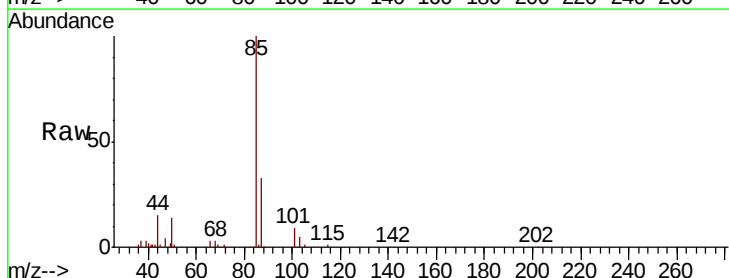
RT: 3.02 min Scan# 72

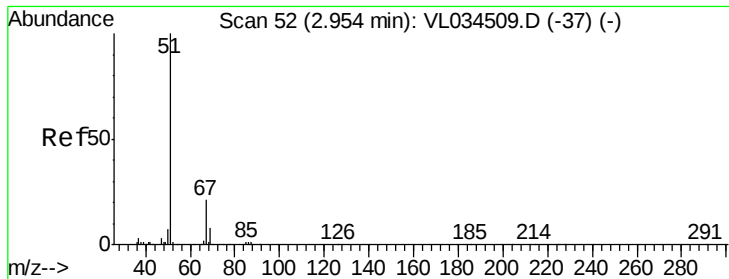
Delta R.T. 0.00 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Tgt Ion:	85	Resp:	72012
Ion	Ratio	Lower	Upper
85	100		
87	33.0	27.9	41.9





#3

Chlorodifluoromethane

Concen: 0.315 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.00 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tot Ion: 51 Resp: 33213

Ion Ratio Lower Upper

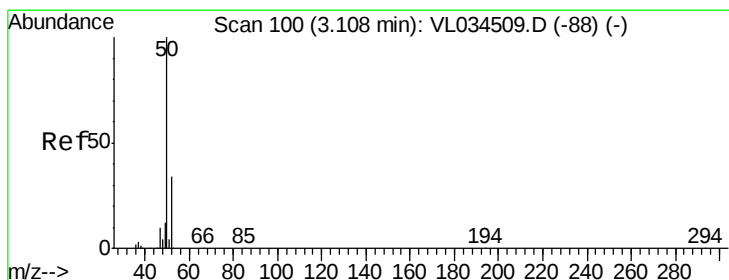
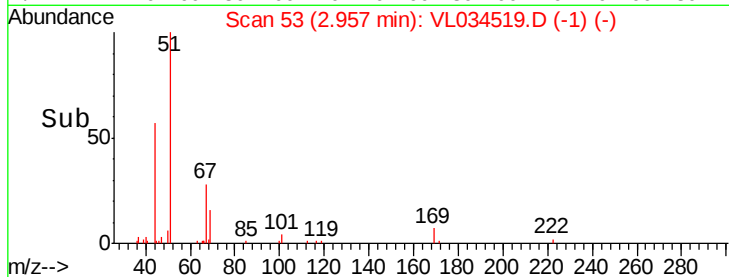
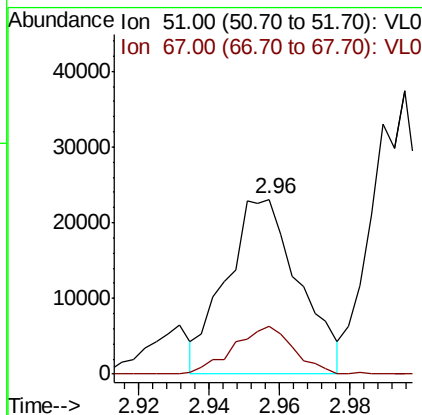
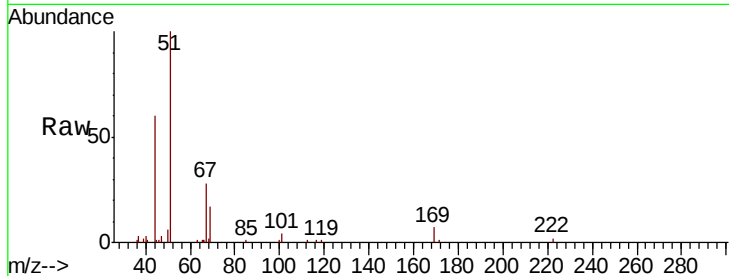
51 100

67 22.7 16.8 25.2

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#4

Chloromethane

Concen: 0.123 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034519.D

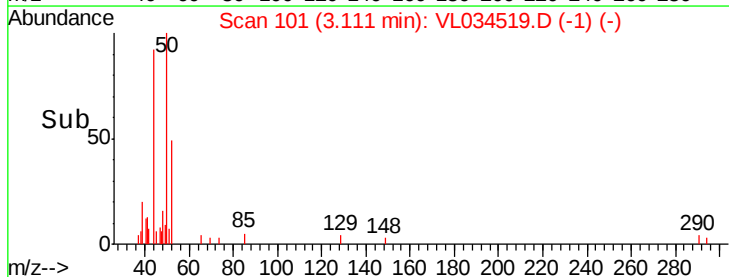
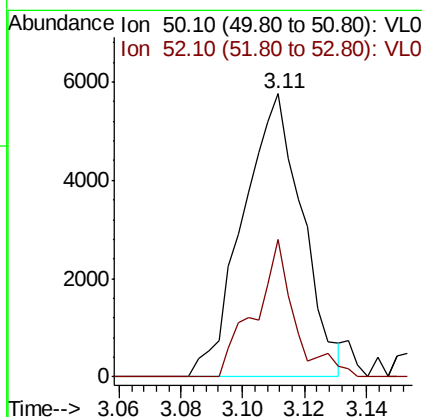
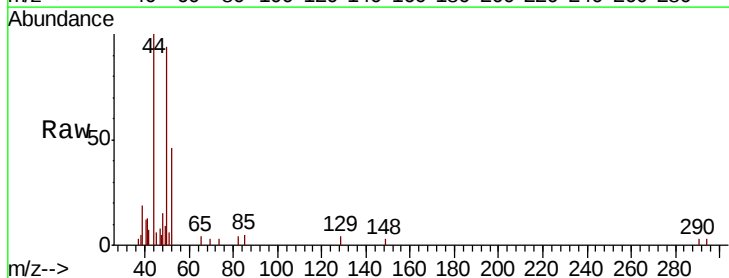
Acq: 30 Dec 2019 19:49

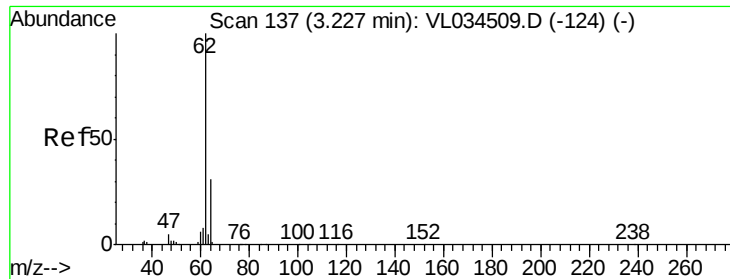
Tgt Ion: 50 Resp: 7701

Ion Ratio Lower Upper

50 100

52 48.6 27.6 41.4#





#5

Vinyl Chloride

Concen: 0.033 ppbv

RT: 3.23 min Scan# 138

Delta R.T. 0.00 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Instrument :

MSVOA_L

ClientSampled :

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Tot Ion: 62 Resp: 1994

Ion Ratio Lower Upper

62 100

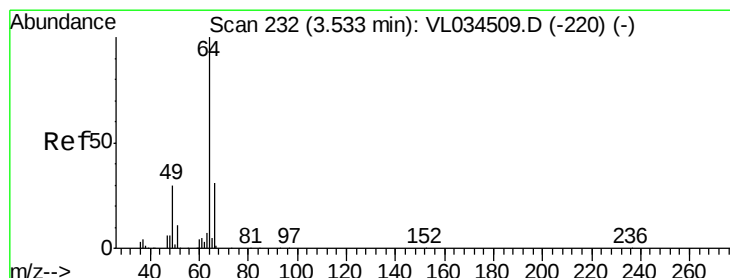
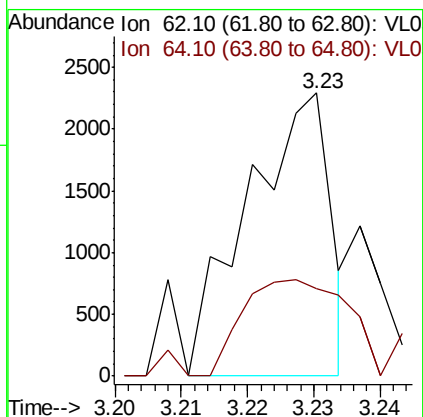
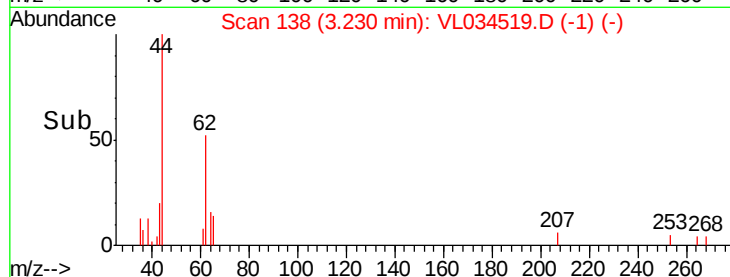
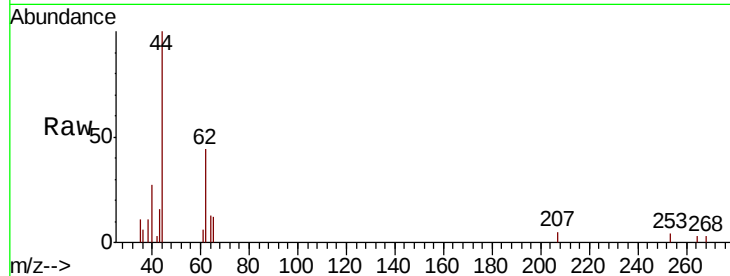
64 30.8 24.9 37.3

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#7

Chloroethane

Concen: 3.547 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL034519.D

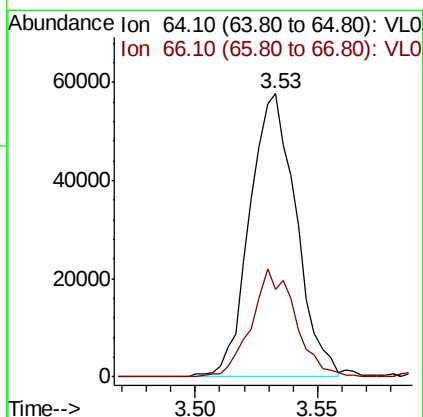
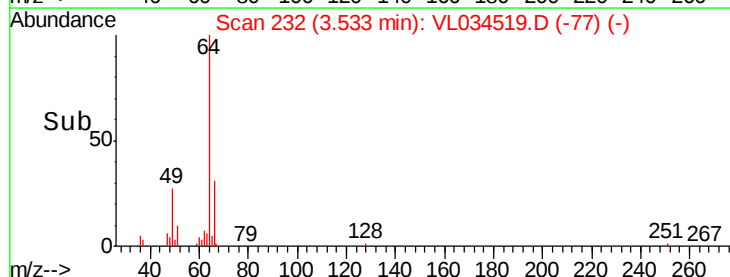
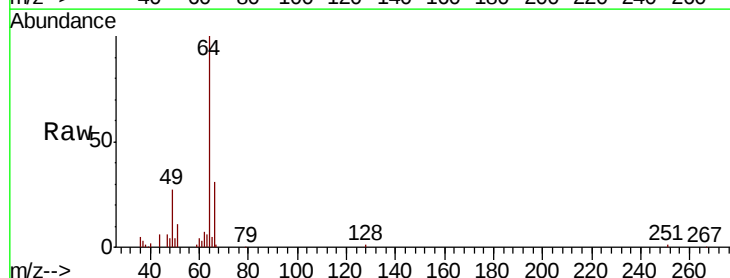
Acq: 30 Dec 2019 19:49

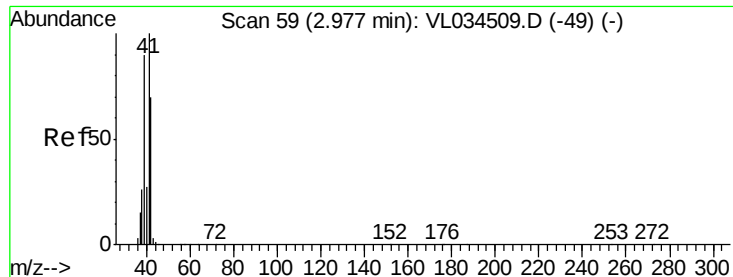
Tgt Ion: 64 Resp: 75829

Ion Ratio Lower Upper

64 100

66 31.1 25.0 37.4





#9

Propene

Concen: 1.438 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tot Ion: 41 Resp: 58475

Ion Ratio Lower Upper

41 100

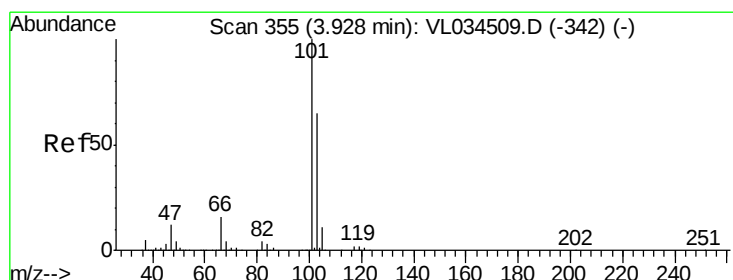
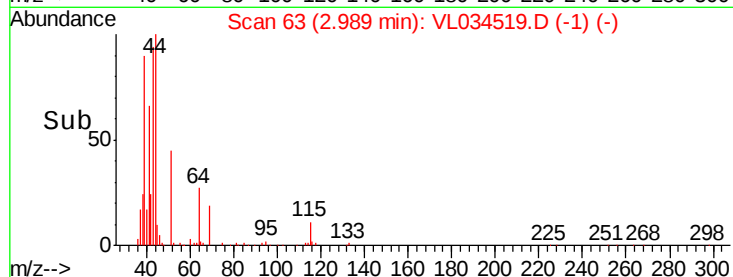
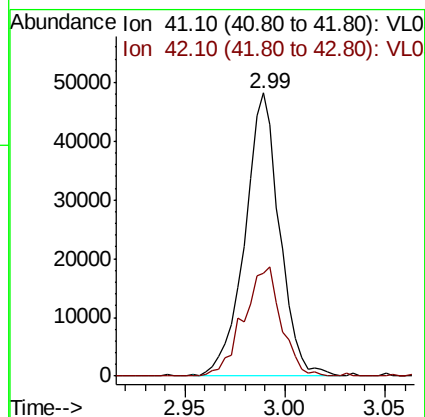
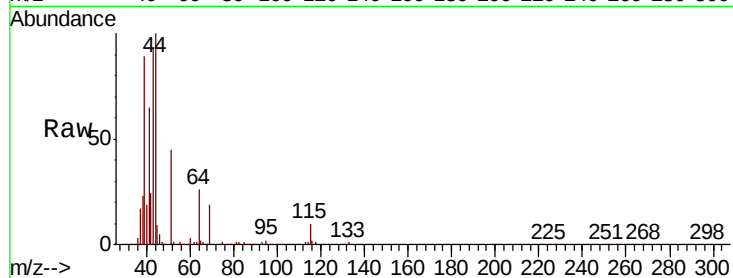
42 50.9 55.8 83.6#

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#11

Trichlorofluoromethane

Concen: 0.280 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.00 min

Lab File: VL034519.D

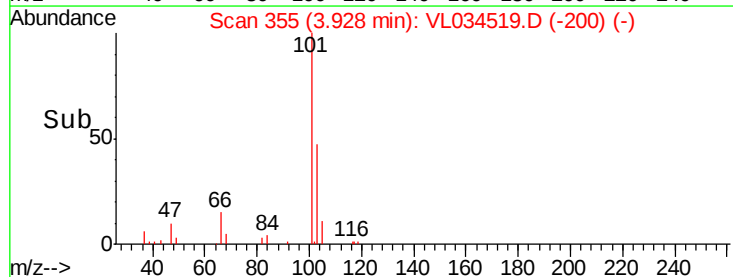
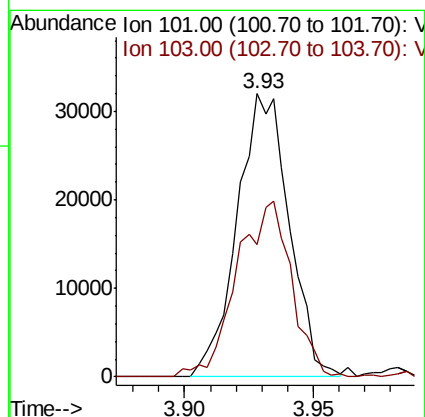
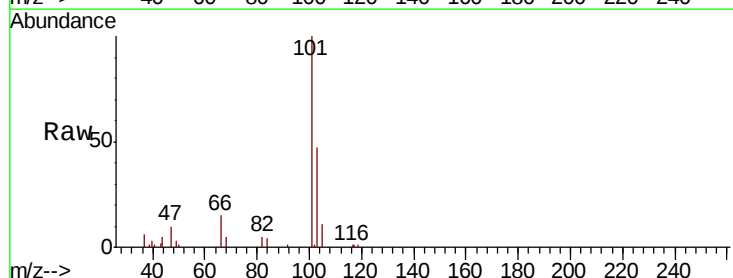
Acq: 30 Dec 2019 19:49

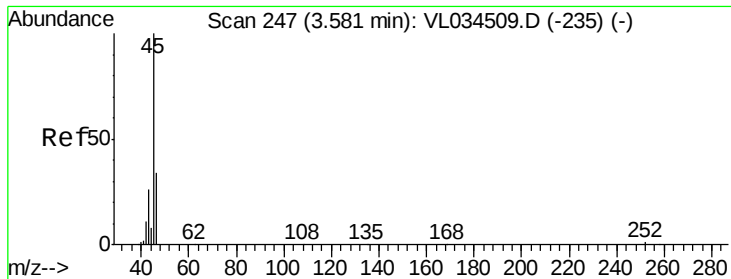
Tgt Ion: 101 Resp: 45202

Ion Ratio Lower Upper

101 100

103 45.9 52.1 78.1#





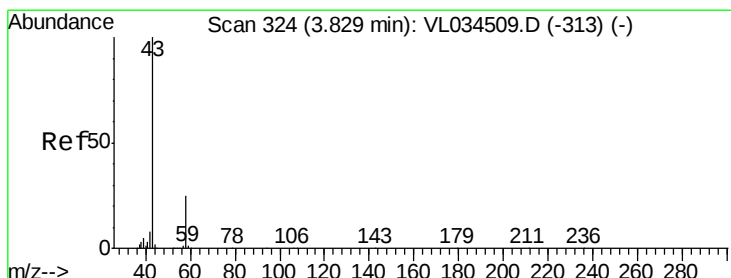
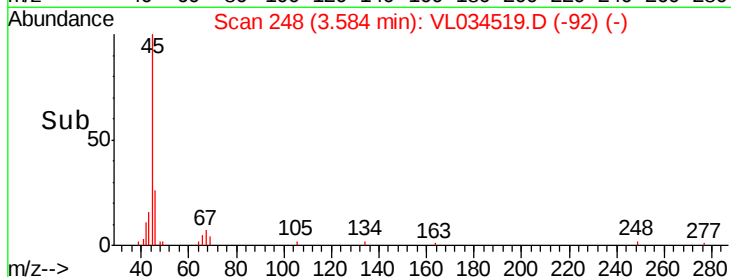
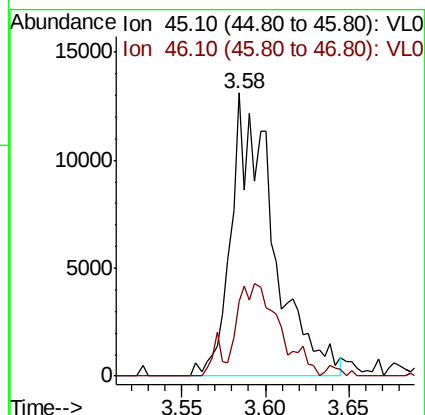
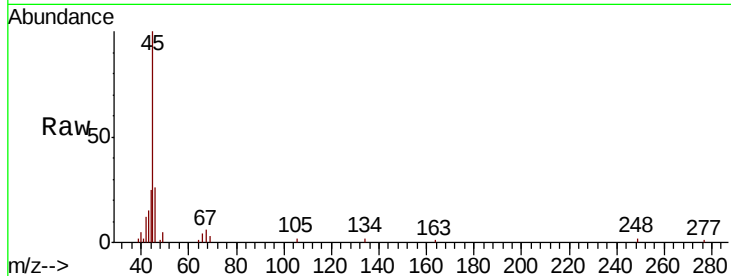
#13
Ethanol
Concen: 2.054 ppbv m
RT: 3.58 min Scan# 248
Delta R.T. 0.00 min
Lab File: VL034519.D
Acq: 30 Dec 2019 19:49

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

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

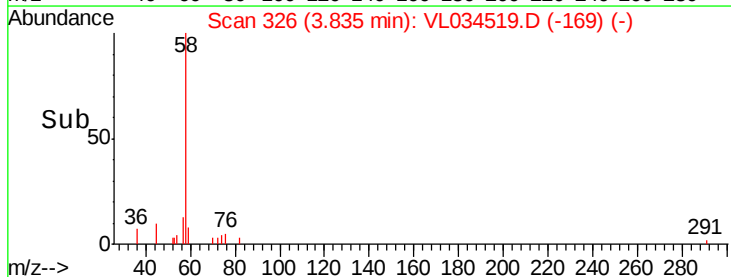
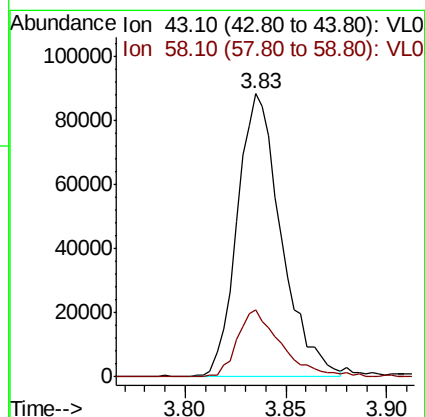
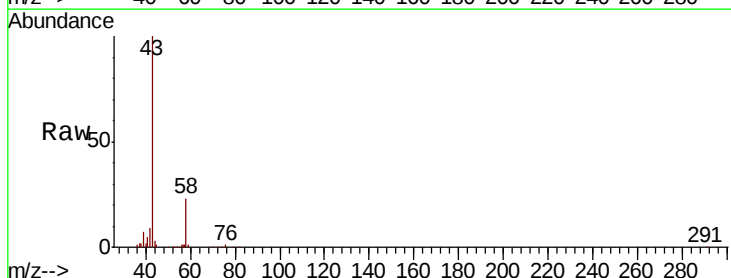
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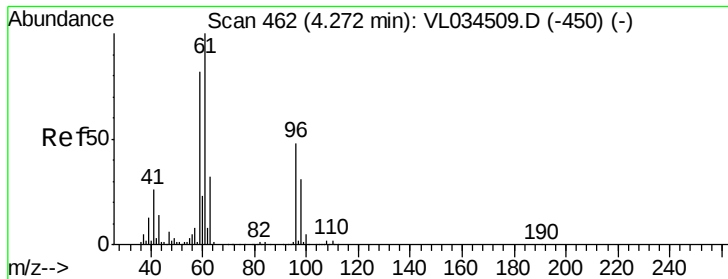
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#15
Acetone
Concen: 1.046 ppbv
RT: 3.83 min Scan# 326
Delta R.T. 0.01 min
Lab File: VL034519.D
Acq: 30 Dec 2019 19:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.7	20.4	30.6





#18

1,1-Dichloroethene

Concen: 1.644 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.00 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Instrument :

MSVOA_L

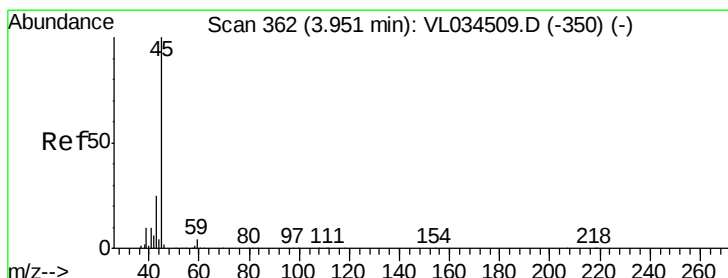
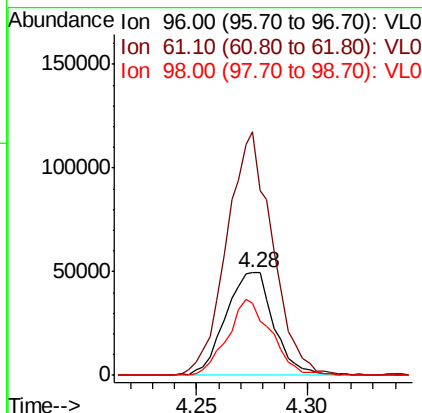
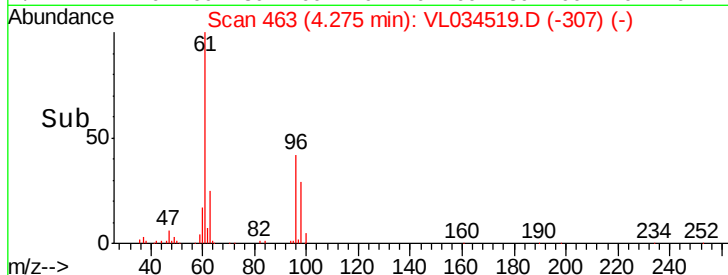
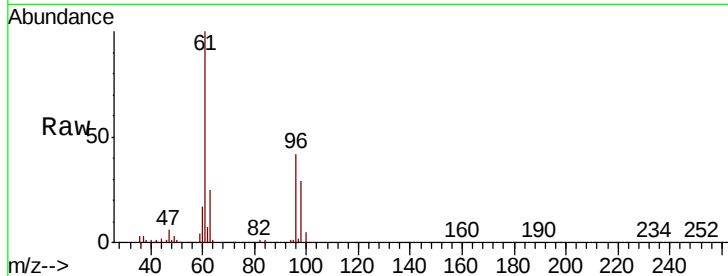
ClientSampleId :

EFFLUENT

Tot Ion:	96	Resp:	73582
Ion	Ratio	Lower	Upper
96	100		
61	238.3	165.9	248.9
98	70.5	51.9	77.9

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#19

Isopropyl Alcohol

Concen: 0.899 ppbv

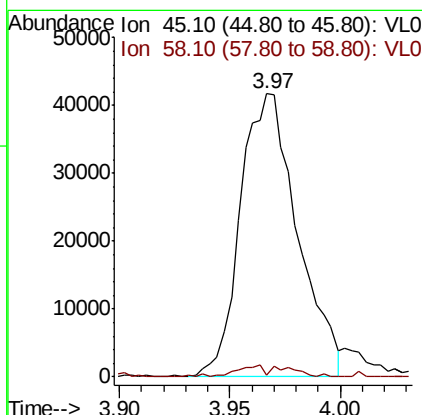
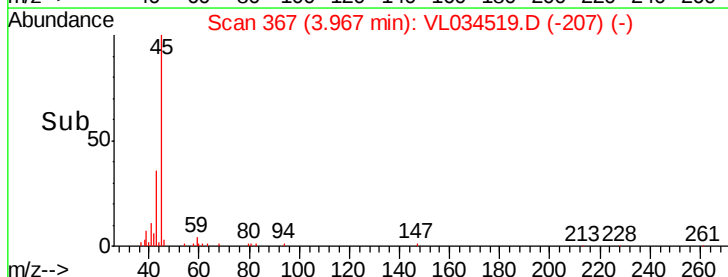
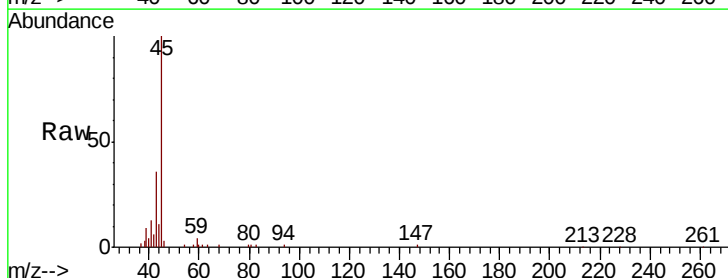
RT: 3.97 min Scan# 367

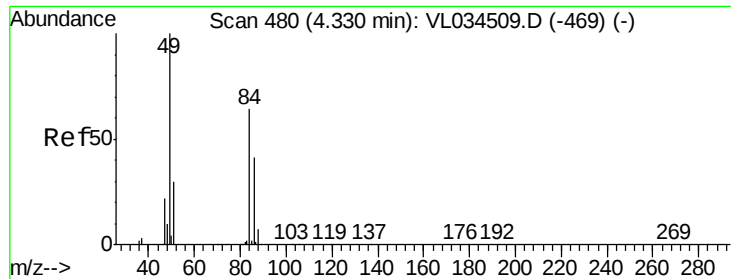
Delta R.T. 0.02 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Tgt Ion:	45	Resp:	75221
Ion	Ratio	Lower	Upper
45	100		
58	3.7	1.4	2.0#





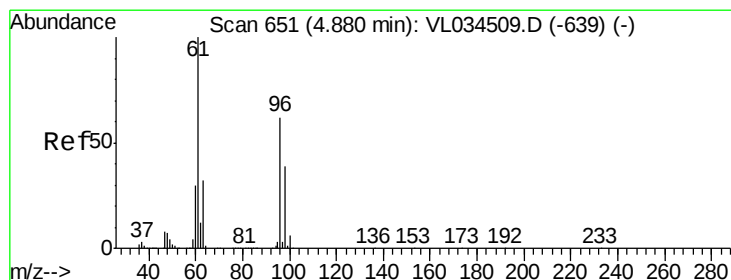
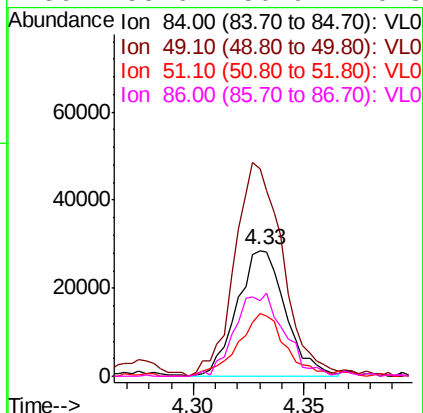
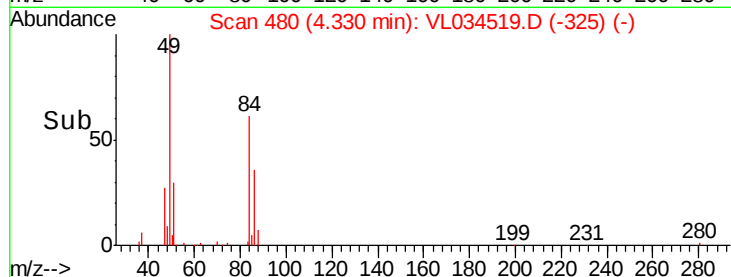
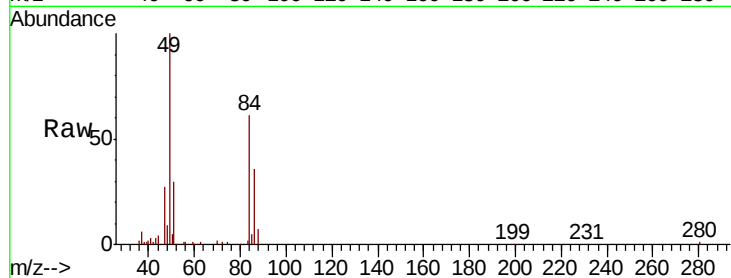
#20
Methvlene Chloride
Concen: 0.858 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL034519.D
Acq: 30 Dec 2019 19:49

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ClientSampleId :
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Tot Ion:	84	Resp:	43612
Ion	Ratio	Lower	Upper
84	100		
49	153.2	124.4	186.6
51	46.6	37.0	55.6
86	55.6	50.9	76.3

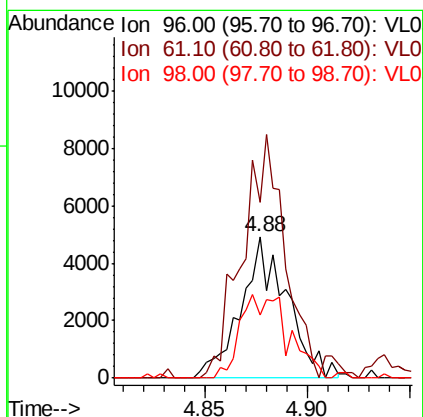
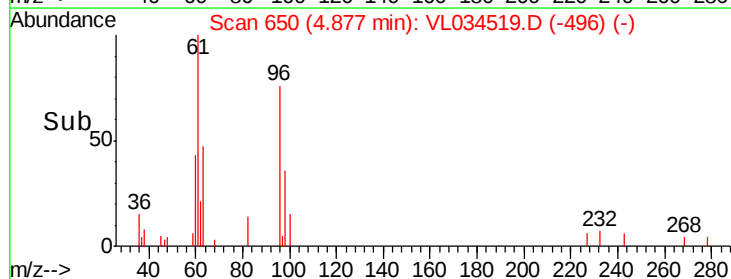
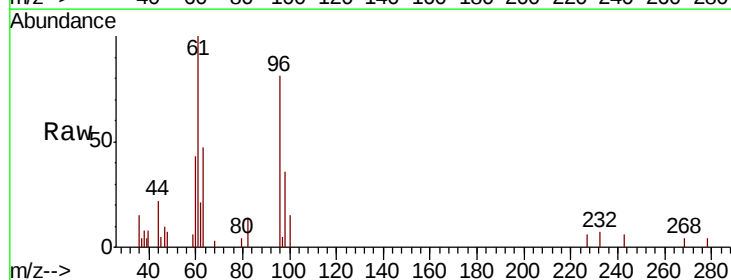
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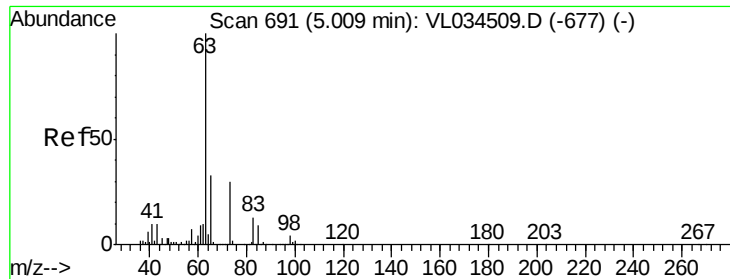
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#22
trans-1,2-Dichloroethene
Concen: 0.167 ppbv m
RT: 4.88 min Scan# 650
Delta R.T. -0.00 min
Lab File: VL034519.D
Acq: 30 Dec 2019 19:49

Tgt Ion:	96	Resp:	7598
Ion	Ratio	Lower	Upper
96	100		
61	124.0	128.4	192.6#
98	45.0	50.6	75.8#





#24

1,1-Dichloroethane

Concen: 2.153 ppbv

RT: 5.00 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Instrument :

MSVOA_L

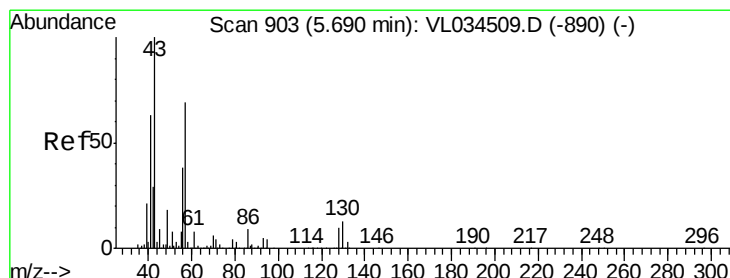
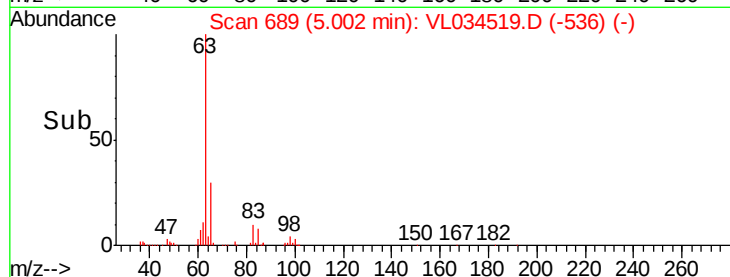
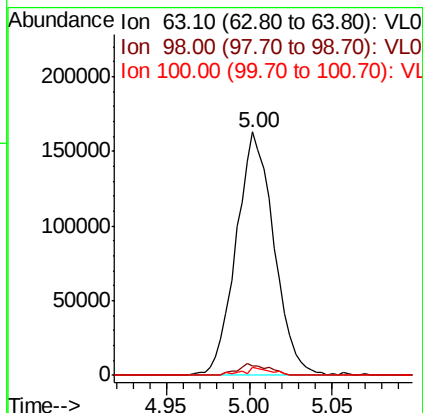
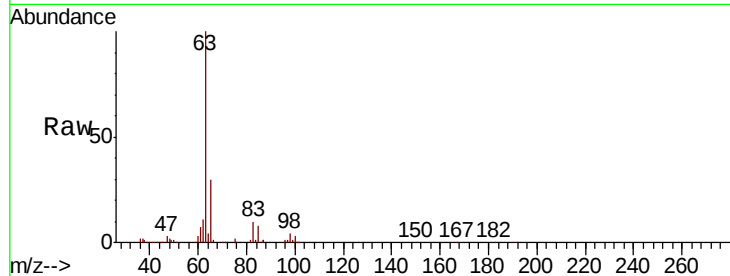
ClientSampleId :

EFFLUENT

Tot Ion:	63	Resp:	258011
Ion Ratio	Lower	Upper	
63	100		
98	3.7	2.1	6.3
100	3.4	1.1	3.3#

Manual Integrations
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#26

Hexane

Concen: 0.275 ppbv m

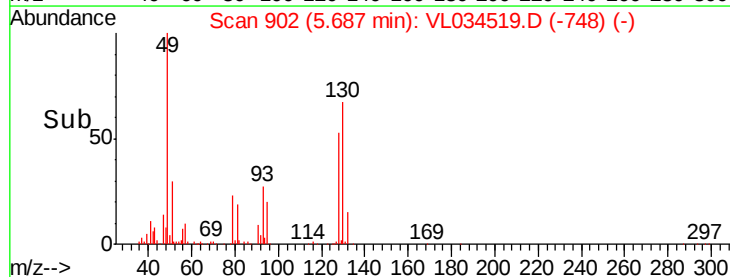
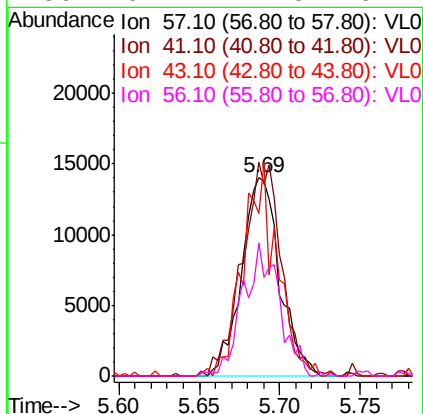
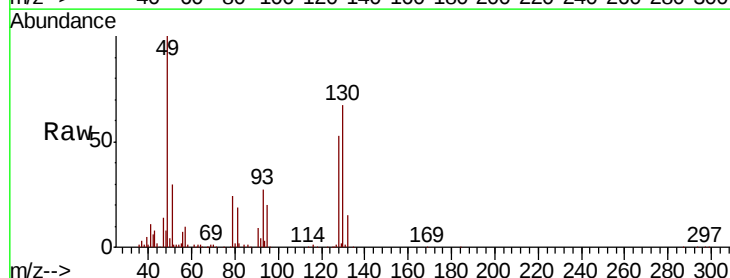
RT: 5.69 min Scan# 902

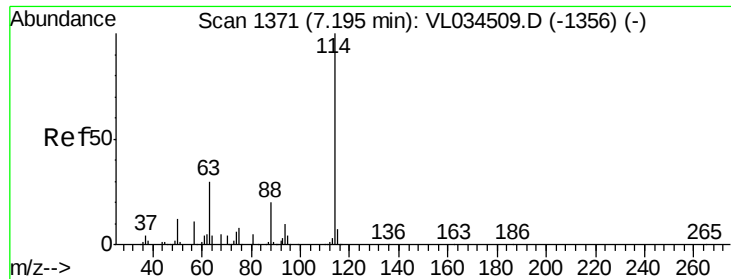
Delta R.T. -0.00 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Tgt Ion:	57	Resp:	23397
Ion Ratio	Lower	Upper	
57	100		
41	110.6	75.3	112.9
43	95.7	189.4	284.2#
56	64.1	42.8	64.2





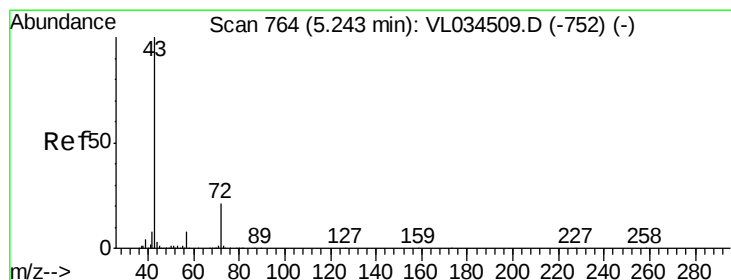
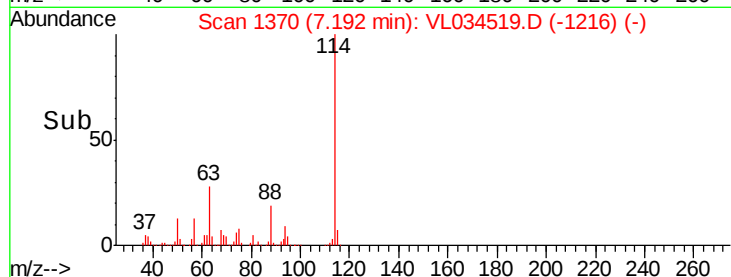
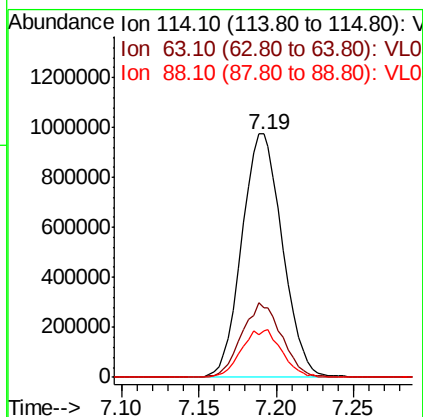
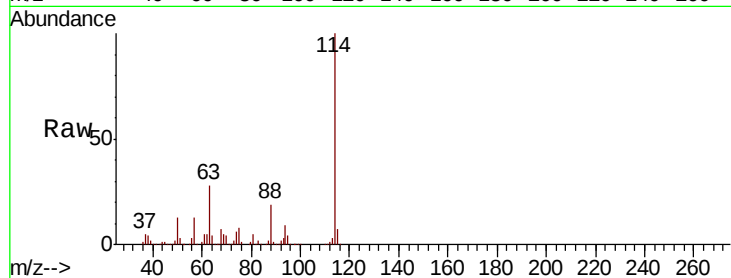
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL034519.D
 Acq: 30 Dec 2019 19:49

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.1	24.1	36.1
88	19.5	15.7	23.5

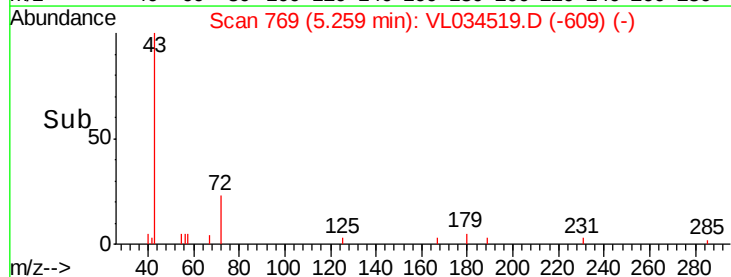
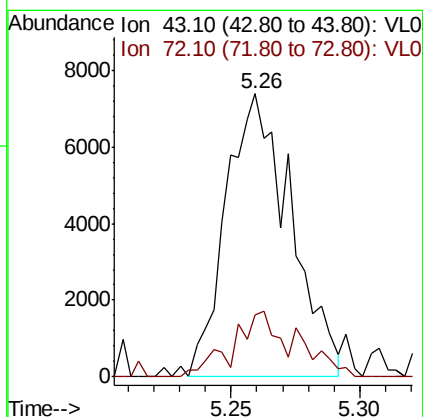
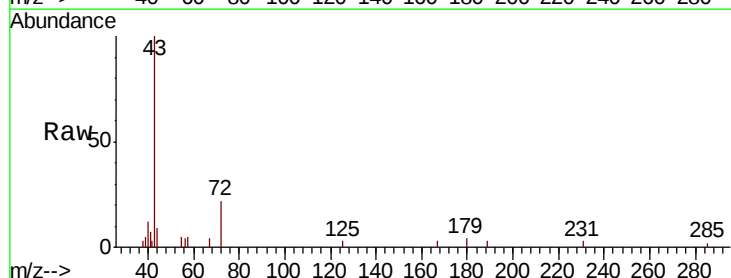
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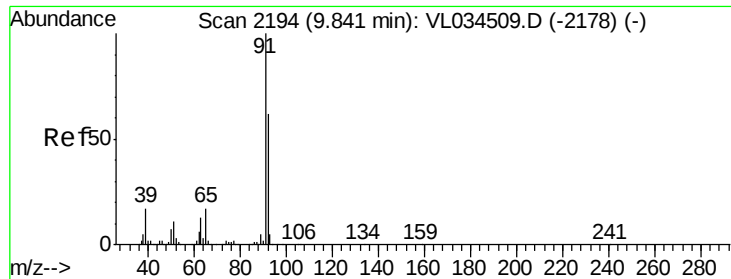
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#34
 2-Butanone
 Concen: 0.102 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.02 min
 Lab File: VL034519.D
 Acq: 30 Dec 2019 19:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.0	25.4





#53

Toluene

Concen: 0.264 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. -0.01 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tot Ion: 91 Resp: 45014

Ion Ratio Lower Upper

91 100

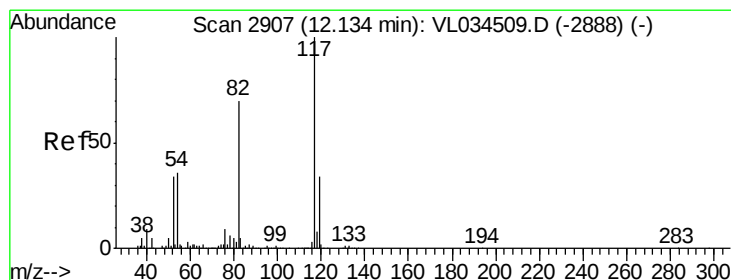
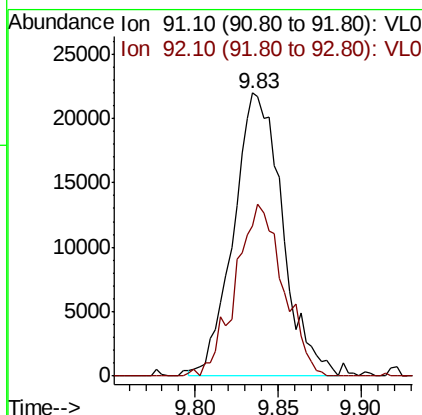
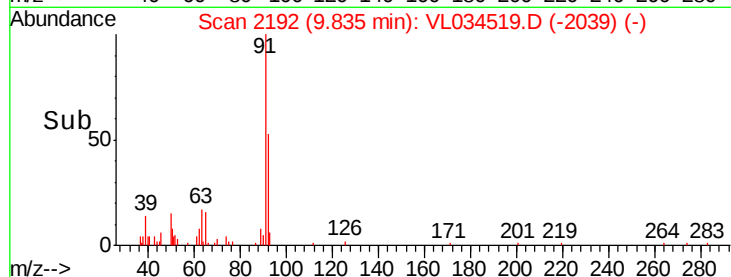
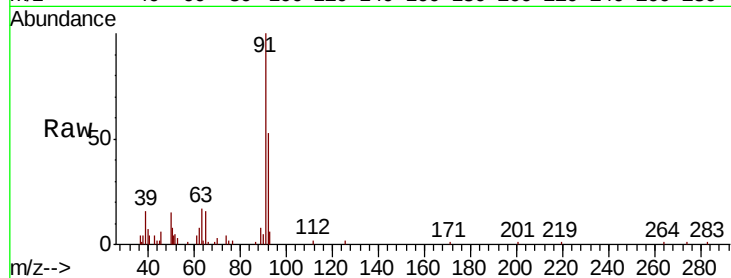
92 59.5 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.01 min

Lab File: VL034519.D

Acq: 30 Dec 2019 19:49

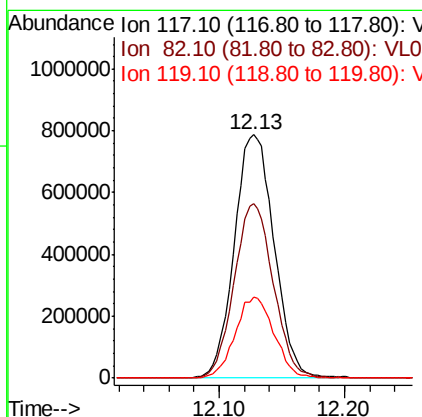
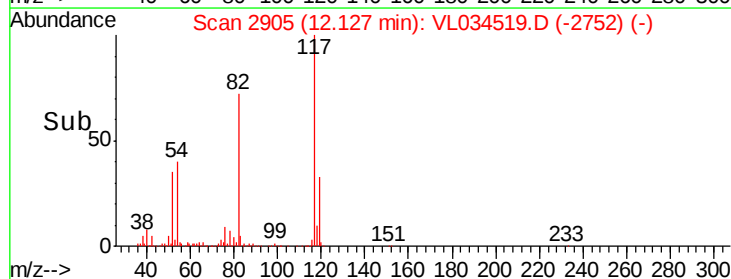
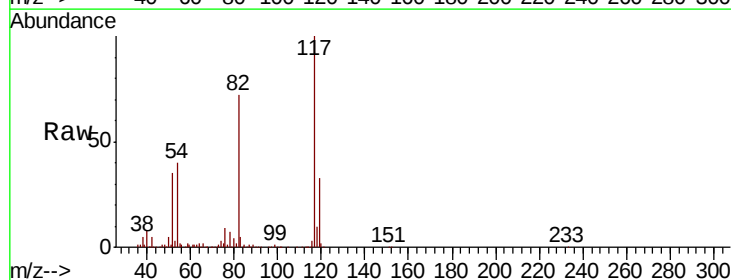
Tgt Ion: 117 Resp: 1728002

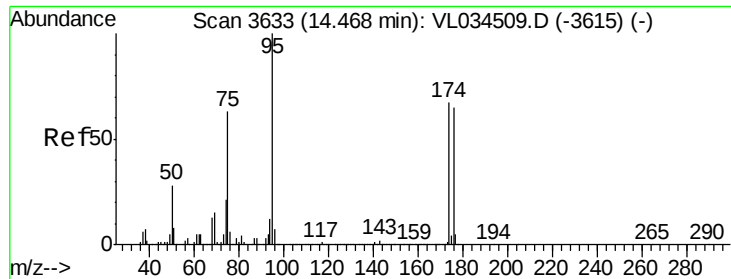
Ion Ratio Lower Upper

117 100

82 71.1 56.2 84.4

119 32.8 27.1 40.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.210 ppbv
 RT: 14.46 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VL034519.D
 Acq: 30 Dec 2019 19:49

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.3	52.4	78.6
175	4.6	3.9	5.9

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