

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026674.D
 Acq On : 12 Jan 2016 14:43
 Operator : SY/AP
 Sample : H1064-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Manual Integrations
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Quant Time: Jan 13 05:53:16 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 13 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	905904	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.36	114	2624971	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.78	117	3152866	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.32	95	2557857	10.18	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	119287	0.50	ppbv	98
3) Chlorodifluoromethane	3.59	51	145437m	1.21	ppbv	
4) Chloromethane	3.78	50	27308	0.46	ppbv	93
9) Propene	3.63	41	92348m	2.13	ppbv	
10) Heptane	9.38	43	20469	0.13	ppbv	96
11) Trichlorofluoromethane	4.72	101	54276	0.22	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	5.33	101	10272m	0.07	ppbv	
13) Ethanol	4.37	45	48427	5.88	ppbv	95
15) Acetone	4.64	43	316534	2.12	ppbv	93
20) Methylene Chloride	5.18	84	27265	0.45	ppbv	99
26) Hexane	6.69	57	76132	0.64	ppbv #	50
34) 2-Butanone	6.26	43	30637	0.22	ppbv	99
35) Carbon Tetrachloride	8.19	117	13252	0.06	ppbv #	77
36) Benzene	8.06	78	133897	0.50	ppbv	97
44) 2,2,4-Trimethylpentane	9.12	57	58776	0.13	ppbv #	85
53) Toluene	11.27	91	244586	0.64	ppbv	100
58) Ethyl Benzene	14.46	91	47045	0.08	ppbv	97
59) m/p-Xylene	14.73	91	140434	0.30	ppbv	97
60) o-Xylene	15.53	91	59593	0.12	ppbv	100
74) 1,2,4-Trimethylbenzene	18.88	105	107095	0.19	ppbv #	77

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

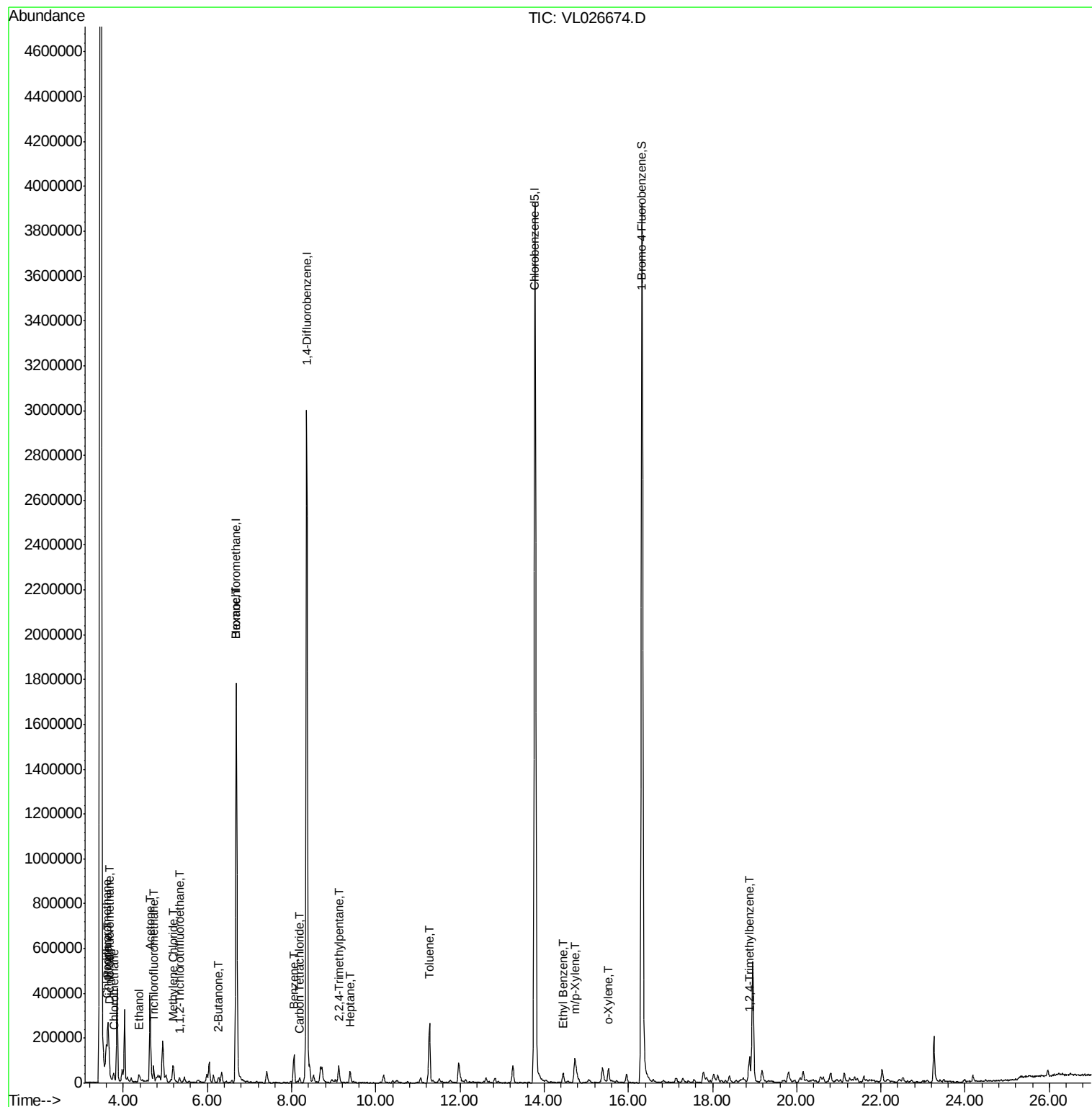
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
Data File : VL026674.D
Acq On : 12 Jan 2016 14:43
Operator : SY/AP
Sample : H1064-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

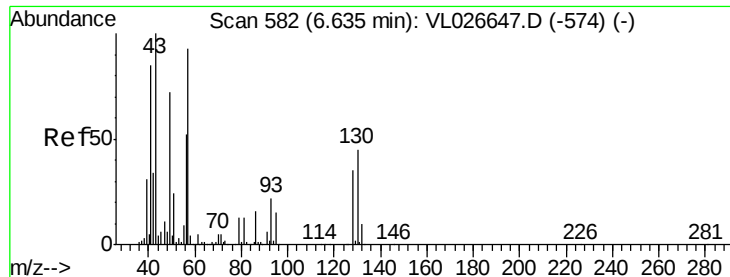
Instrument :
MSVOA_L
ClientSampleId :
OA-1

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Quant Time: Jan 13 05:53:16 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Instrument :

MSVOA_L

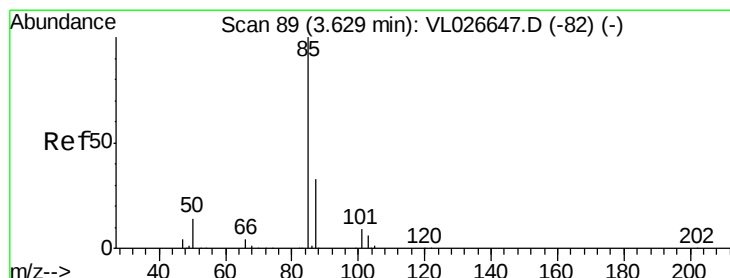
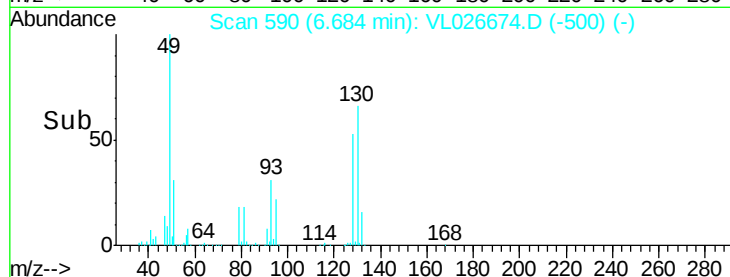
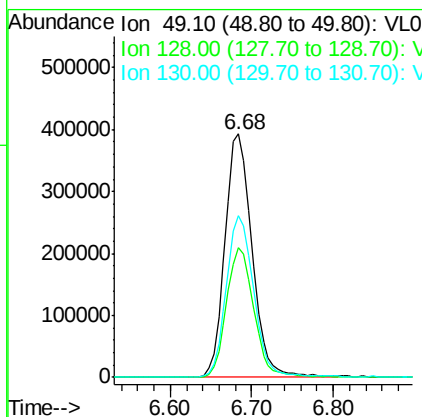
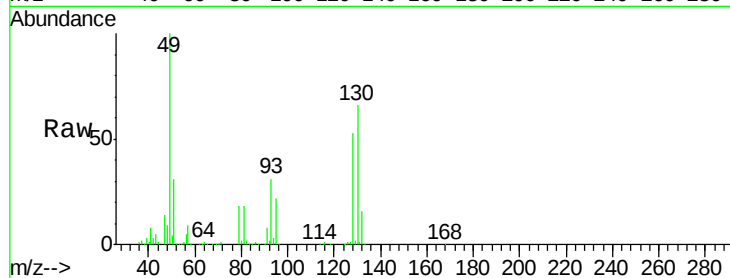
ClientSampled :

QA-1

Tot Ion	Ratio	Lower	Upper
49	100		
128	54.2	25.9	77.7
130	67.2	33.6	100.8

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.50 ppbv

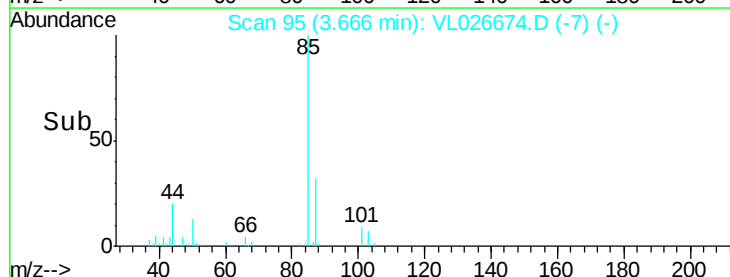
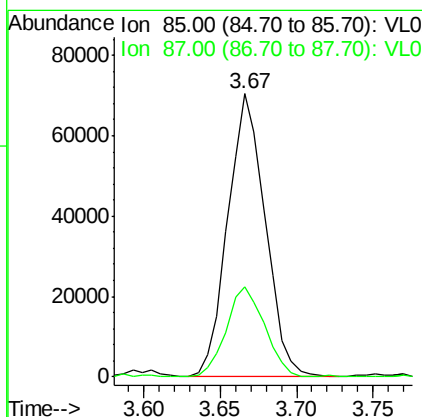
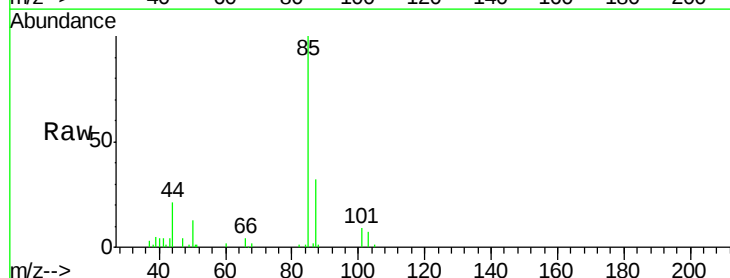
RT: 3.67 min Scan# 95

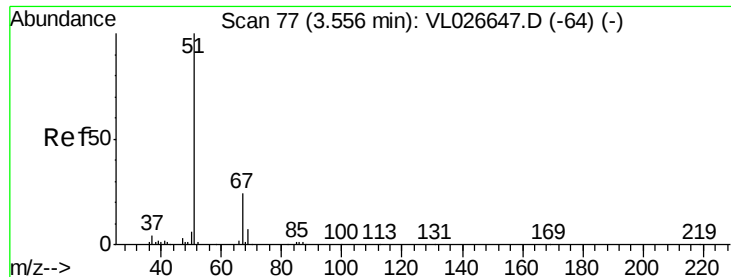
Delta R.T. 0.04 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.4	39.6





#3

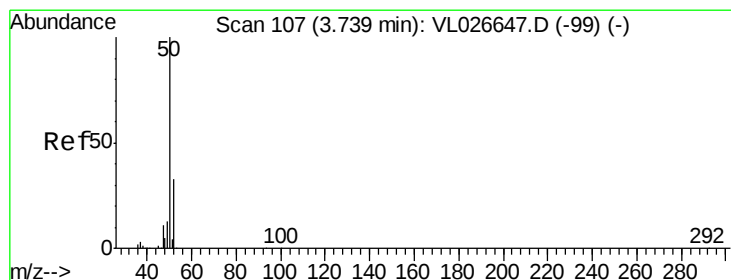
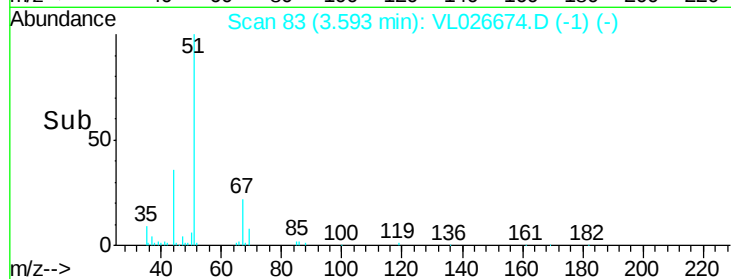
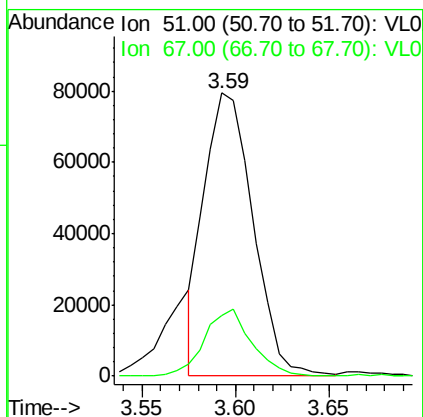
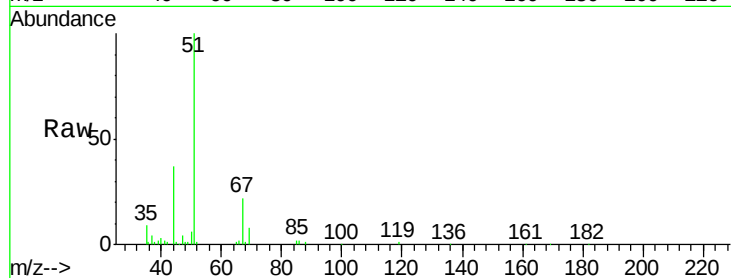
Chlorodifluoromethane
 Concen: 1.21 ppbv m
 RT: 3.59 min Scan# 83
 Delta R.T. 0.04 min
 Lab File: VL026674.D
 Acq: 12 Jan 2016 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Tot Ion	51	Resp	145437
Ion Ratio	100	Lower	Upper
51	100		
67	23.0	18.6	28.0

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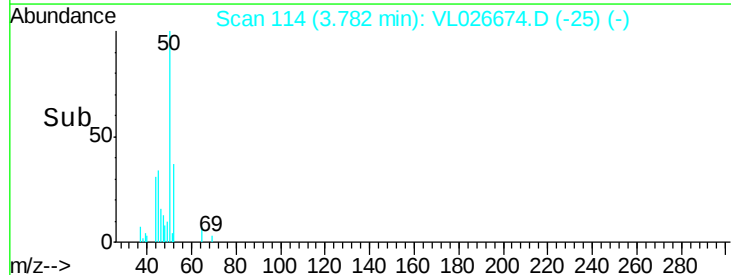
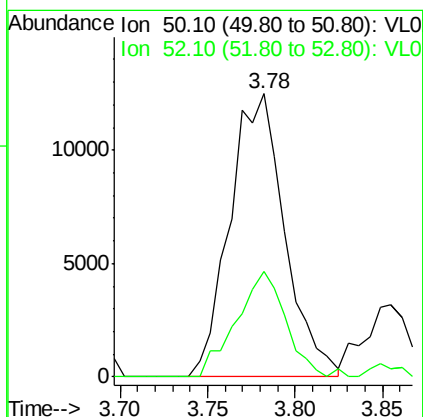
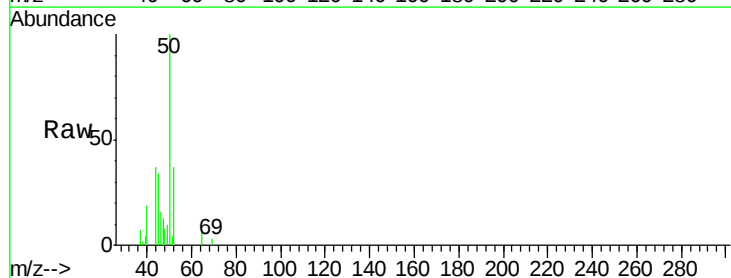
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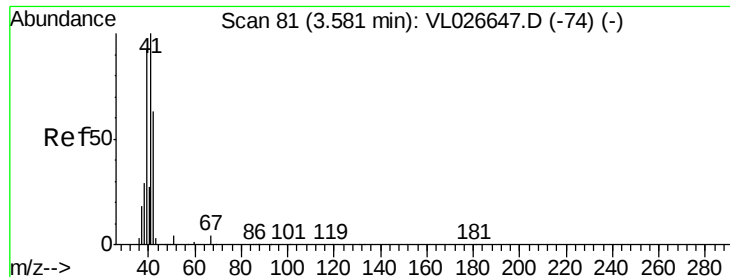


#4

Chloromethane
 Concen: 0.46 ppbv
 RT: 3.78 min Scan# 114
 Delta R.T. 0.04 min
 Lab File: VL026674.D
 Acq: 12 Jan 2016 14:43

Tgt Ion	50	Resp	27308
Ion Ratio	100	Lower	Upper
50	100		
52	37.5	26.7	40.1





#9

Propene

Concen: 2.13 ppbv m

RT: 3.63 min Scan# 89

Delta R.T. 0.05 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion: 41 Resp: 92348

Ion Ratio Lower Upper

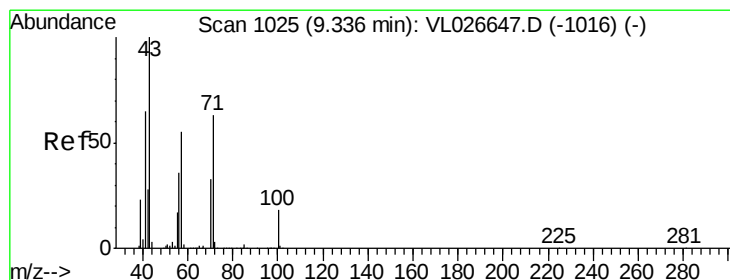
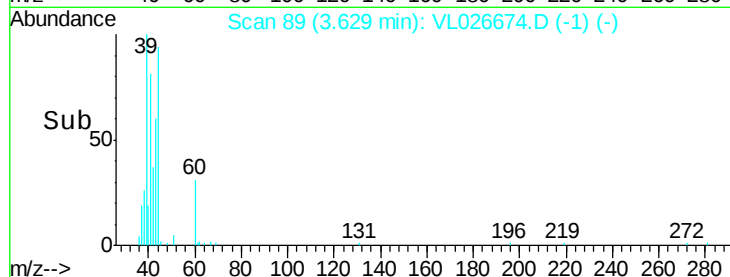
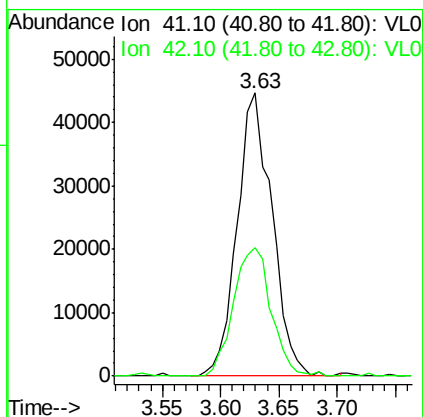
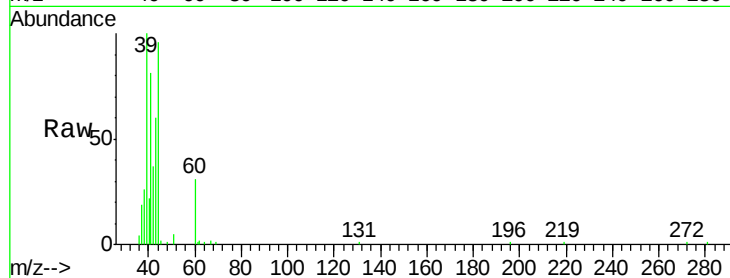
41 100

42 105.1 53.6 80.4#

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#10

Heptane

Concen: 0.13 ppbv

RT: 9.38 min Scan# 1033

Delta R.T. 0.05 min

Lab File: VL026674.D

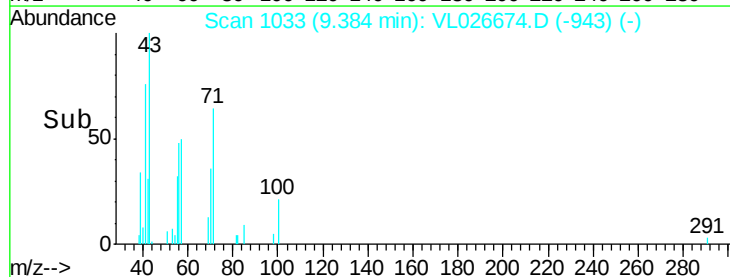
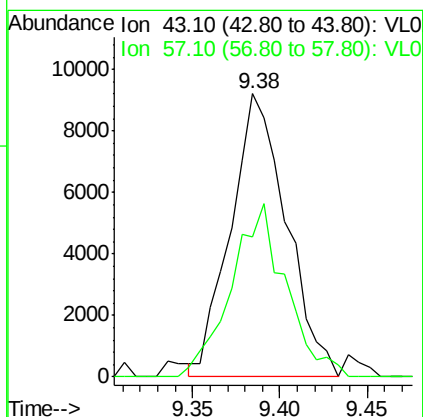
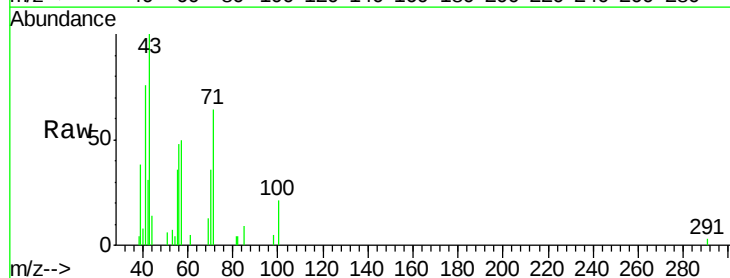
Acq: 12 Jan 2016 14:43

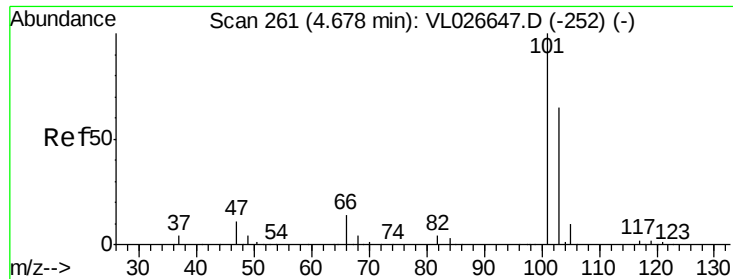
Tgt Ion: 43 Resp: 20469

Ion Ratio Lower Upper

43 100

57 59.9 45.8 68.6





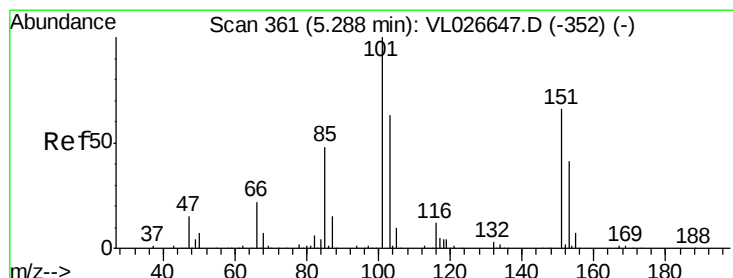
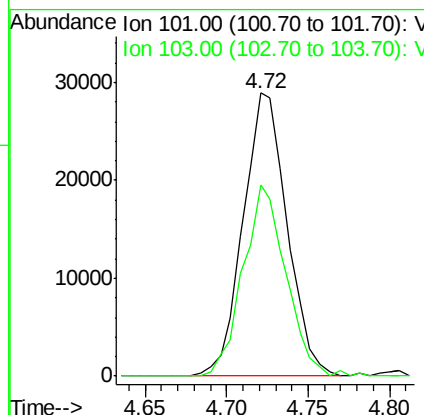
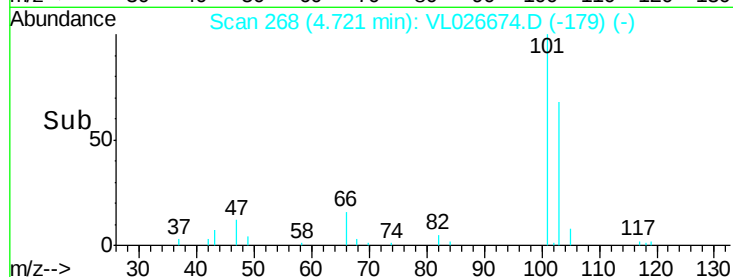
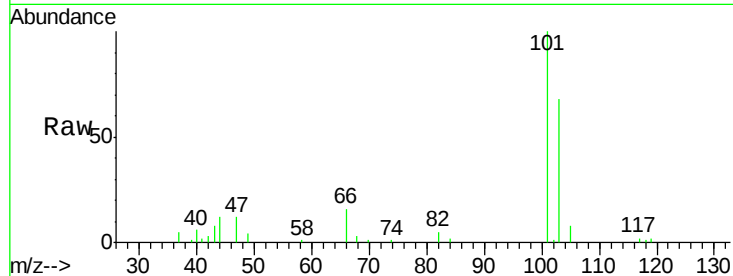
#11
 Trichlorofluoromethane
 Concen: 0.22 ppbv
 RT: 4.72 min Scan# 268
 Delta R.T. 0.04 min
 Lab File: VL026674.D
 Acq: 12 Jan 2016 14:43

Instrument :
 MSVOA_L
 ClientSampled :
 OA-1

Tot Ion:101 Resp: 54276
 Ion Ratio Lower Upper
 101 100
 103 67.7 51.7 77.5

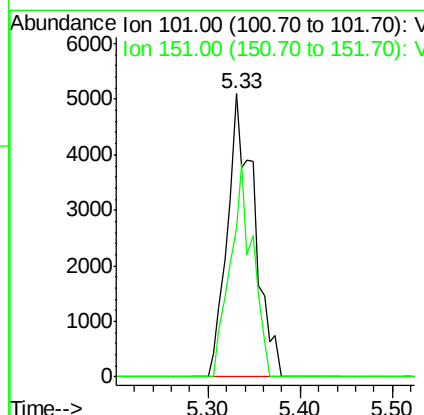
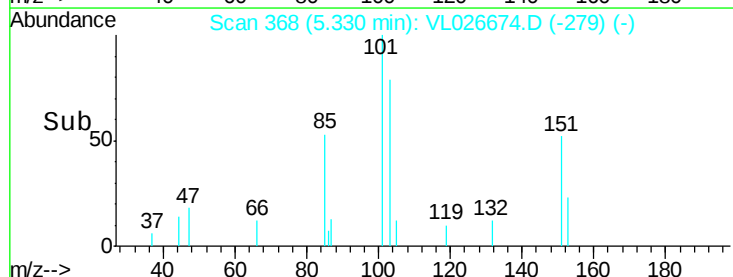
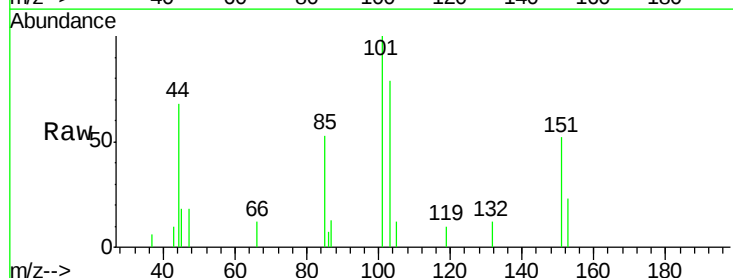
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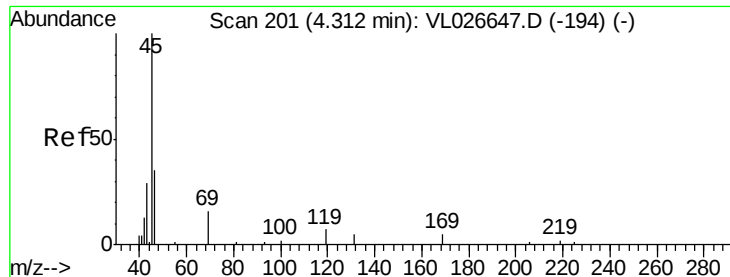
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.07 ppbv m
 RT: 5.33 min Scan# 368
 Delta R.T. 0.04 min
 Lab File: VL026674.D
 Acq: 12 Jan 2016 14:43

Tgt Ion:101 Resp: 10272
 Ion Ratio Lower Upper
 101 100
 151 0.0 54.2 81.4#





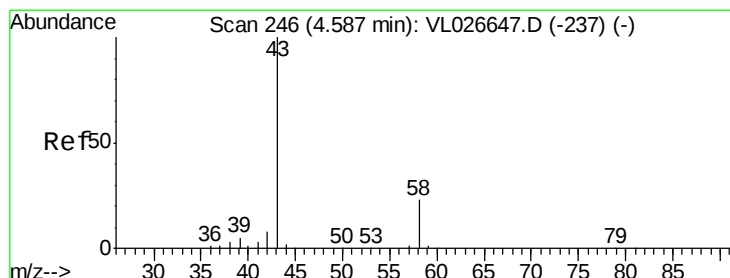
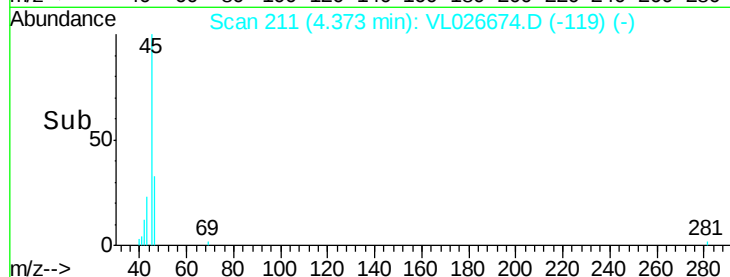
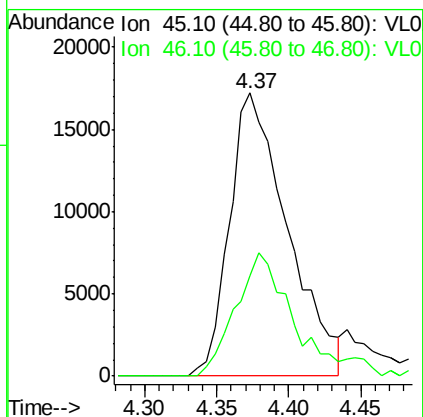
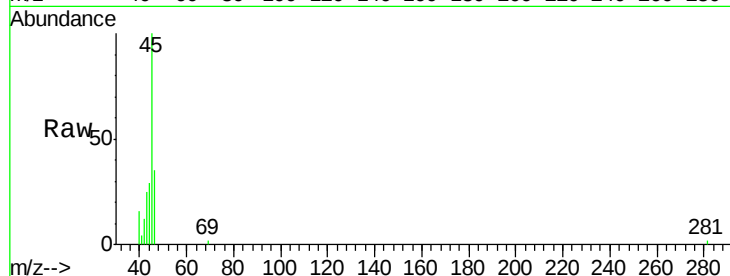
#13
Ethanol
Concen: 5.88 ppbv
RT: 4.37 min Scan# 211
Delta R.T. 0.06 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tot Ion: 45 Resp: 48427
Ion Ratio Lower Upper
45 100
46 44.9 16.7 66.7

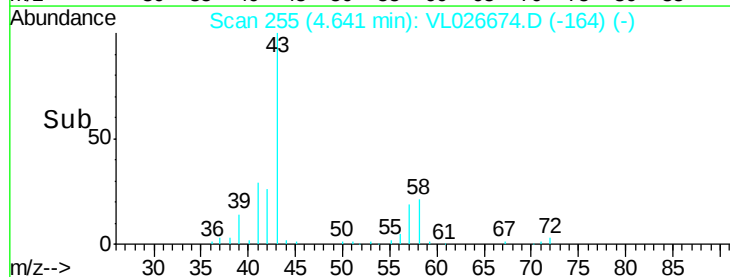
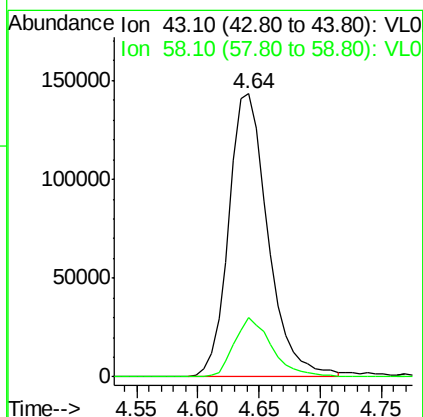
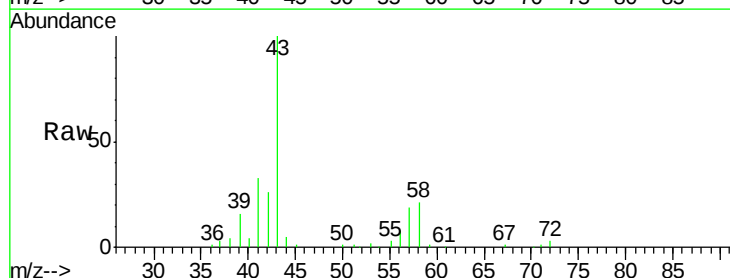
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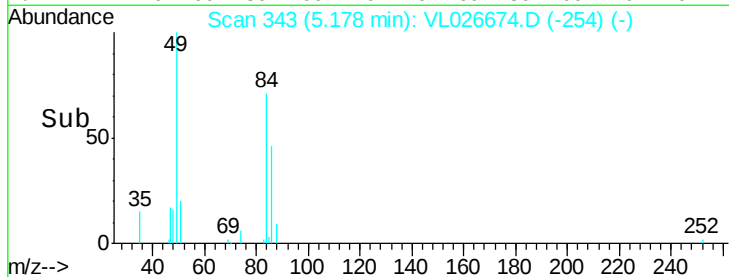
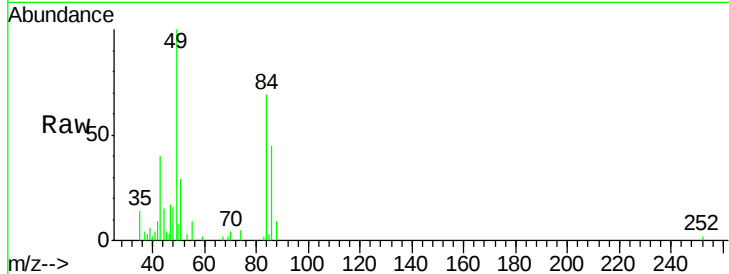
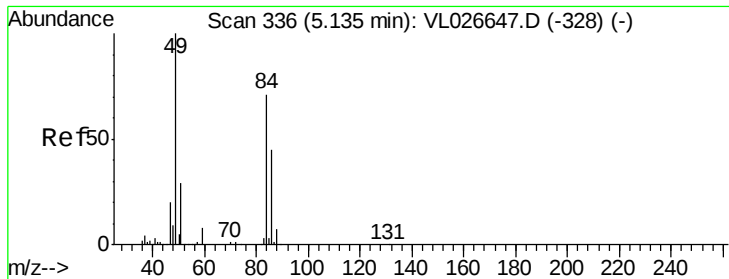
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#15
Acetone
Concen: 2.12 ppbv
RT: 4.64 min Scan# 255
Delta R.T. 0.05 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

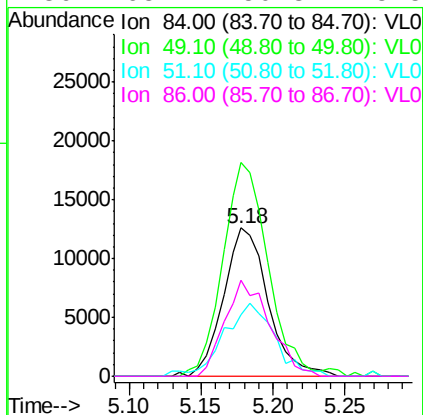
Tgt Ion: 43 Resp: 316534
Ion Ratio Lower Upper
43 100
58 20.6 19.2 28.8





#20
Methvlene Chloride
Concen: 0.45 ppbv
RT: 5.18 min Scan# 343
Delta R.T. 0.04 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

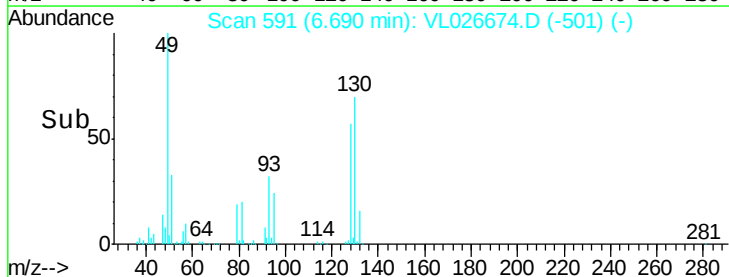
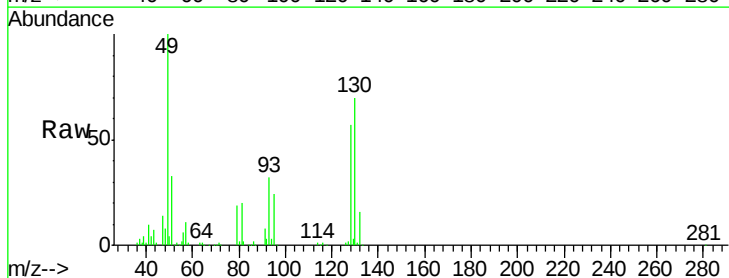
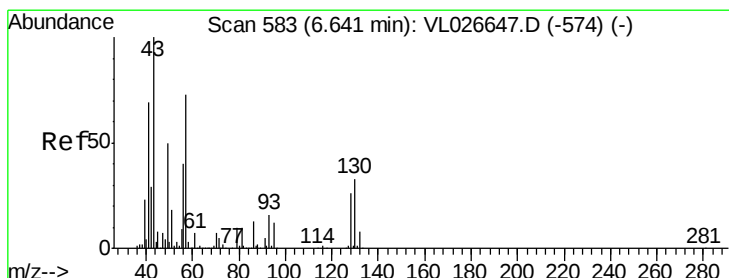
Tot Ion	84	Resp	27265
Ion Ratio	100	Lower	Upper
84	100		
49	139.5	112.3	168.5
51	41.6	32.5	48.7
86	65.1	50.3	75.5



Instrument :
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OA-1

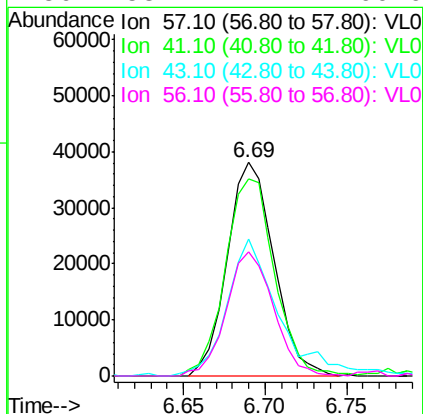
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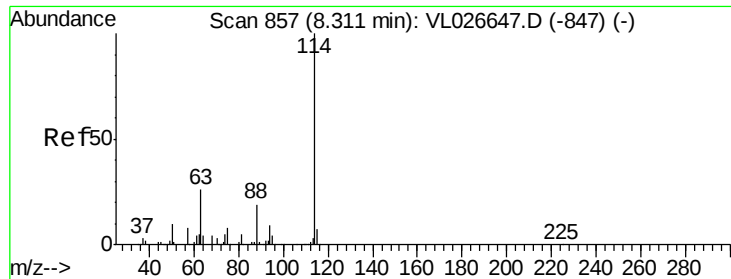
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#26
Hexane
Concen: 0.64 ppbv
RT: 6.69 min Scan# 591
Delta R.T. 0.05 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

Tgt Ion	57	Resp	76132
Ion Ratio	100	Lower	Upper
57	100		
41	97.5	74.8	112.2
43	73.1	161.5	242.3#
56	58.7	44.4	66.6





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.36 min Scan# 865

Delta R.T. 0.05 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion:114 Resp: 2624971

Ion Ratio Lower Upper

114 100

63 26.6 21.7 32.5

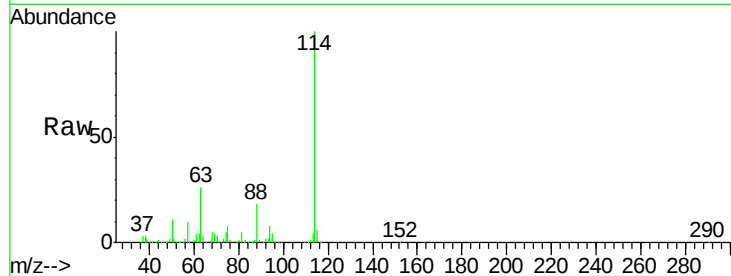
88 18.7 15.2 22.8

Manual Integrations

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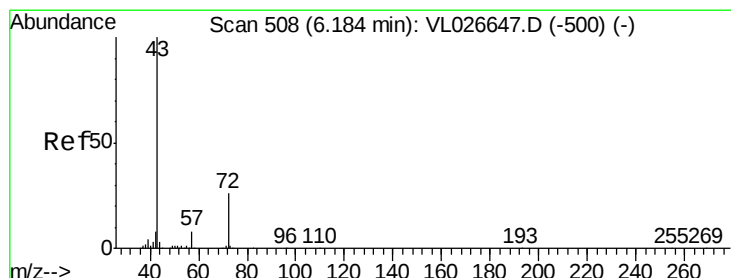
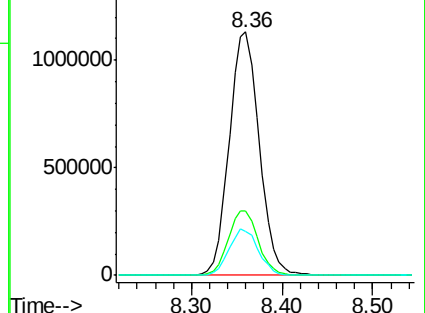
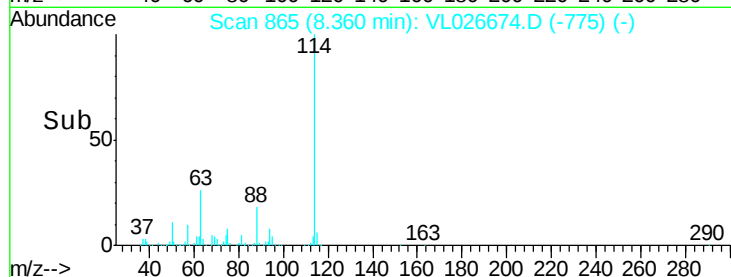
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.22 ppbv

RT: 6.26 min Scan# 521

Delta R.T. 0.08 min

Lab File: VL026674.D

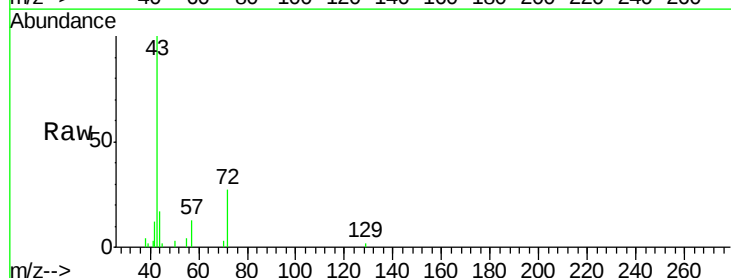
Acq: 12 Jan 2016 14:43

Tgt Ion: 43 Resp: 30637

Ion Ratio Lower Upper

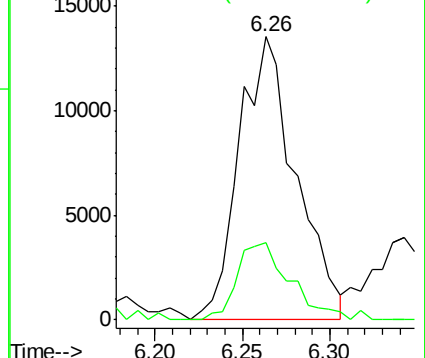
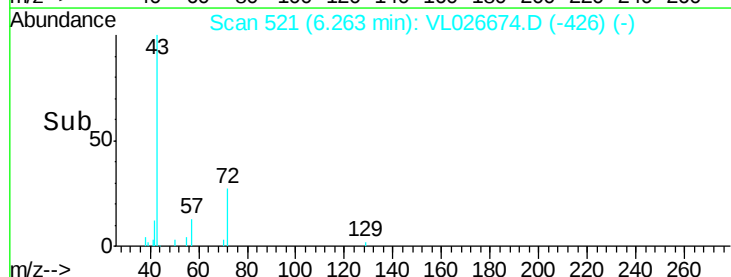
43 100

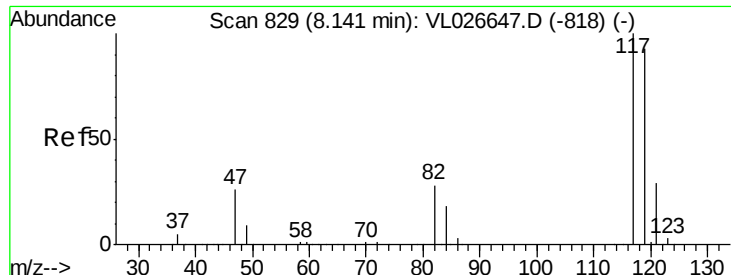
72 25.7 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.06 ppbv

RT: 8.19 min Scan# 837

Delta R.T. 0.05 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Instrument :

MSVOA_L

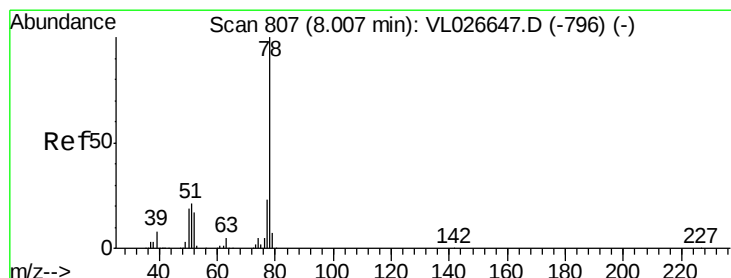
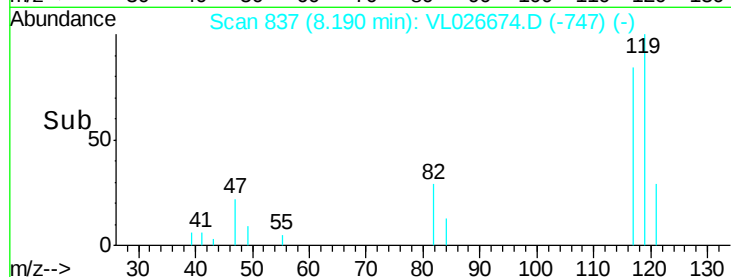
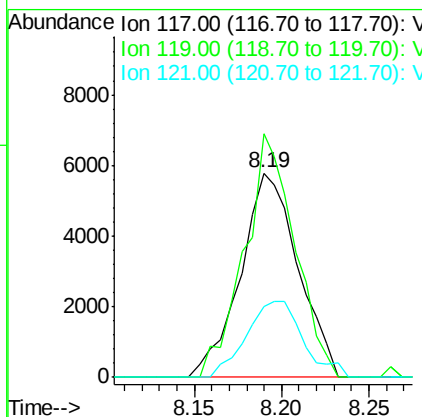
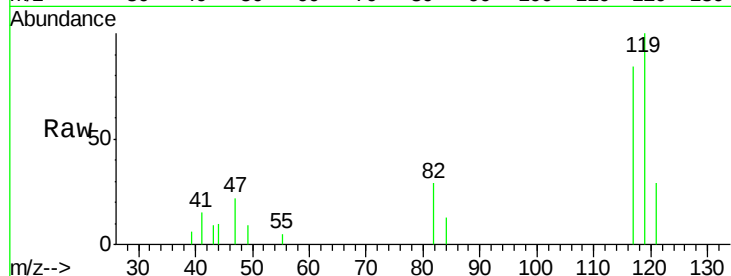
ClientSampleId :

QA-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	119.1	74.7	112.1#
121	34.6	23.1	34.7

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#36

Benzene

Concen: 0.50 ppbv

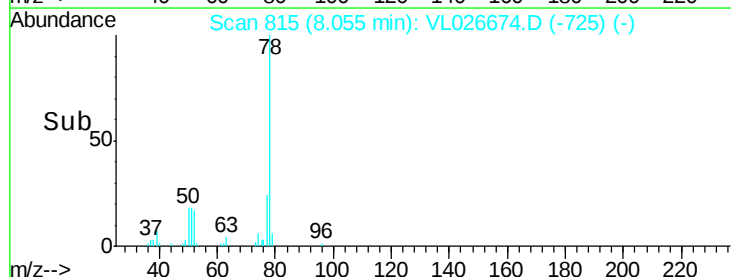
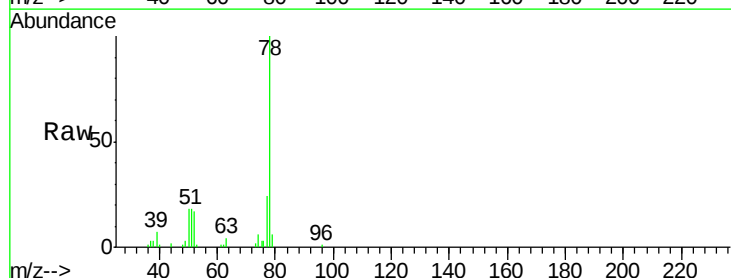
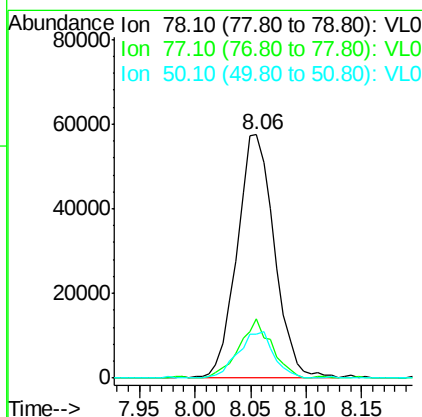
RT: 8.06 min Scan# 815

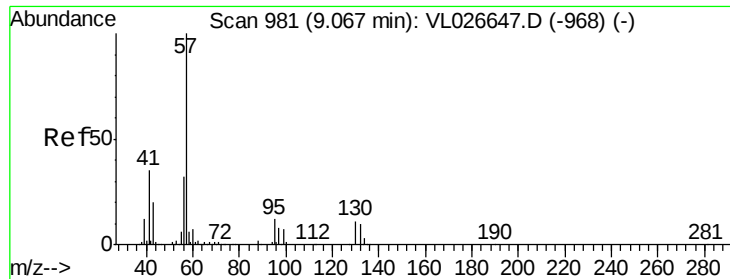
Delta R.T. 0.05 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.5	27.7
50	17.9	15.4	23.2





#44

2,2,4-Trimethylpentane

Concen: 0.13 ppbv

RT: 9.12 min Scan# 990

Delta R.T. 0.05 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Instrument :

MSVOA_L

ClientSampleId :

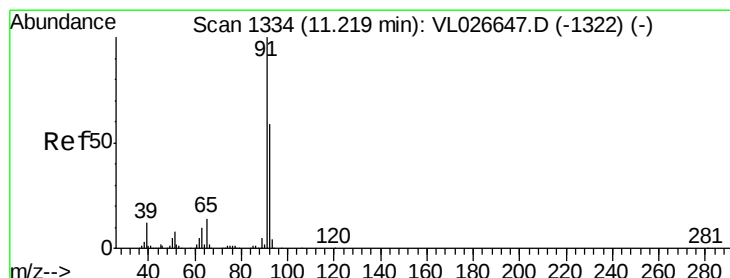
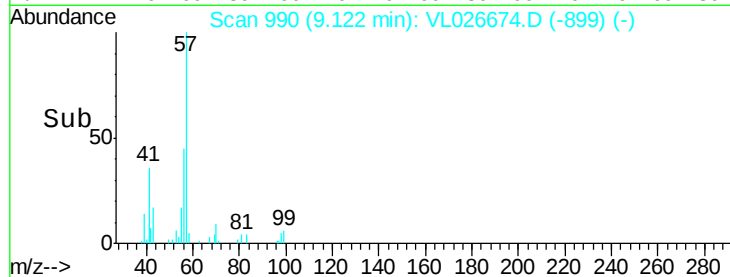
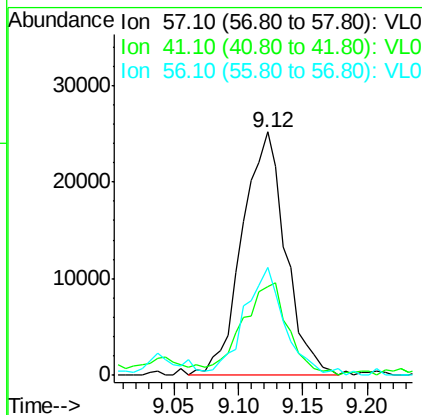
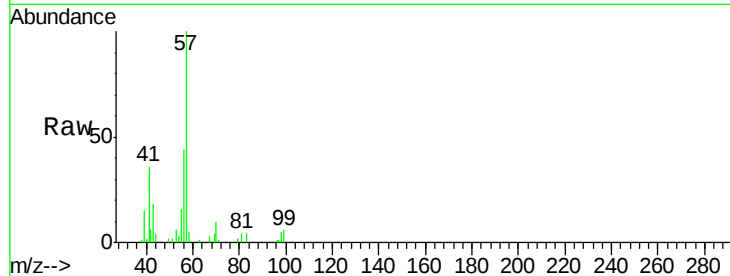
QA-1

Tot Ion:	57	Resp:	58776
Ion Ratio		Lower	Upper
57	100		
41	40.6	26.9	40.3#
56	41.8	25.4	38.0#

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#53

Toluene

Concen: 0.64 ppbv

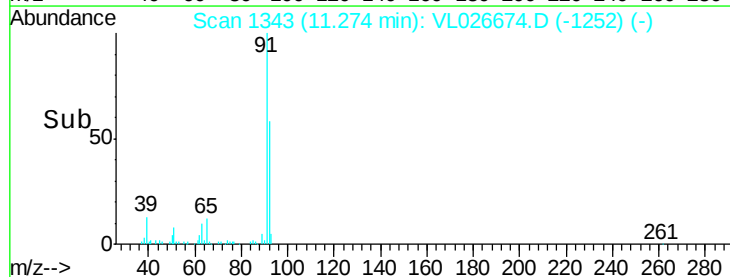
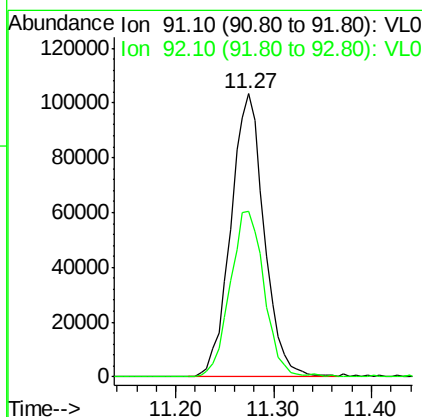
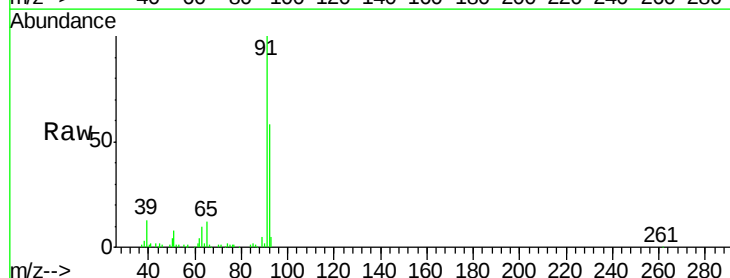
RT: 11.27 min Scan# 1343

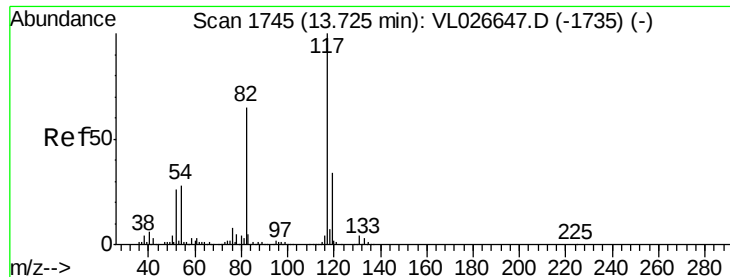
Delta R.T. 0.05 min

Lab File: VL026674.D

Acq: 12 Jan 2016 14:43

Tgt Ion:	91	Resp:	244586
Ion Ratio		Lower	Upper
91	100		
92	59.9	48.2	72.4





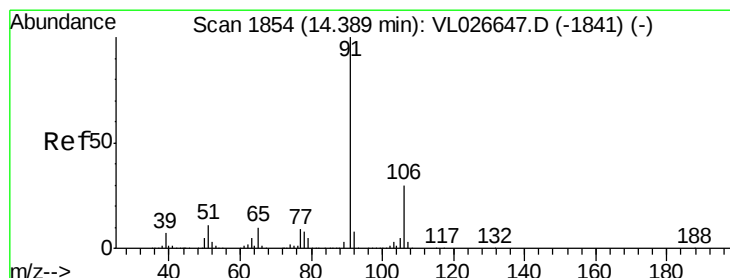
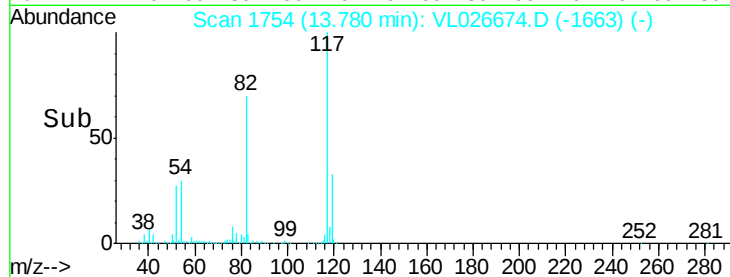
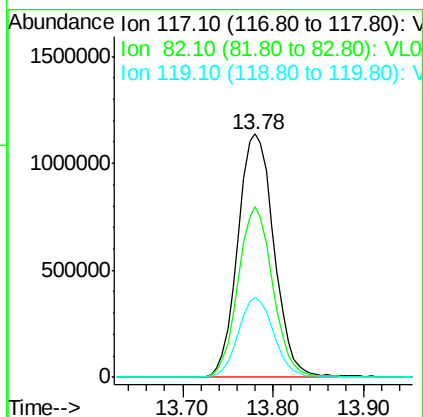
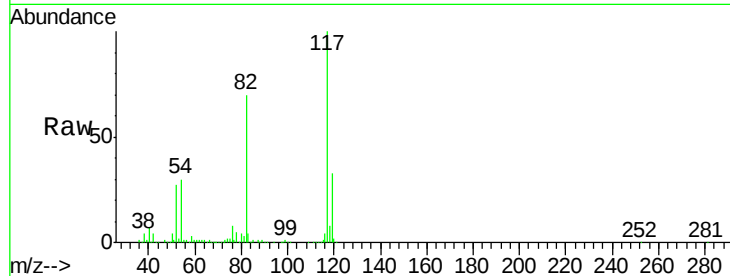
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.78 min Scan# 1754
Delta R.T. 0.05 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.2	49.7	74.5
119	32.5	43.8	65.8#

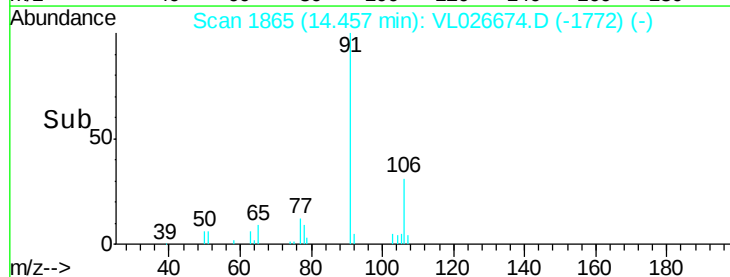
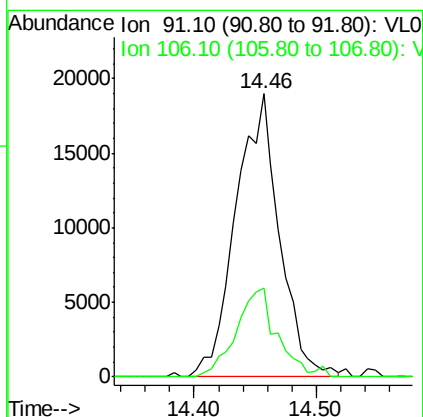
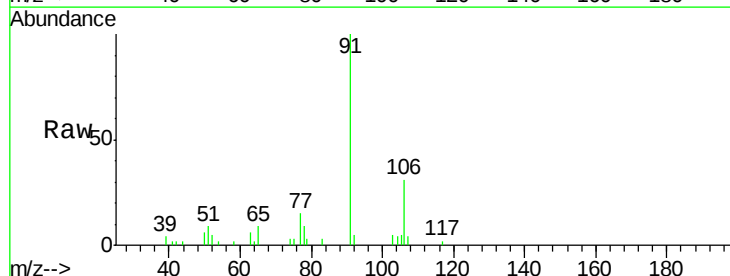
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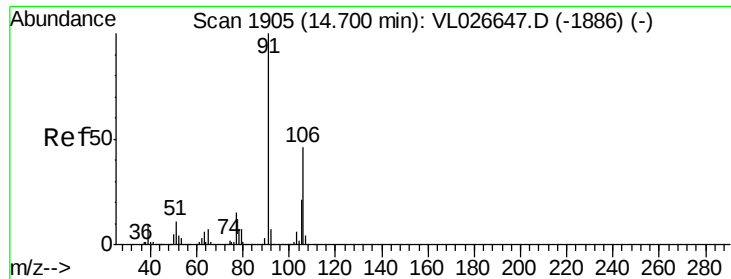
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#58
Ethyl Benzene
Concen: 0.08 ppbv
RT: 14.46 min Scan# 1865
Delta R.T. 0.07 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.8	35.6





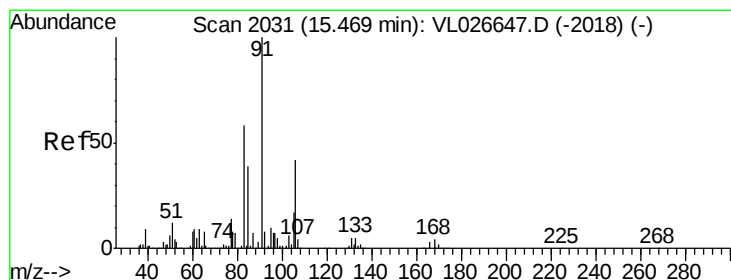
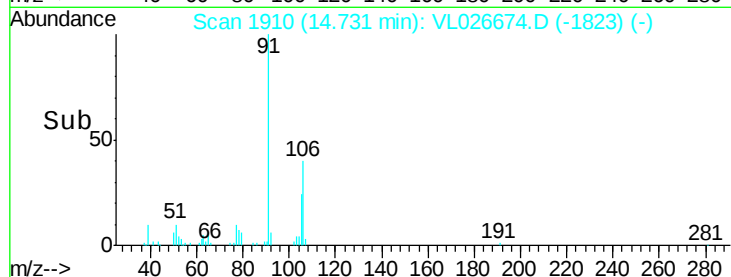
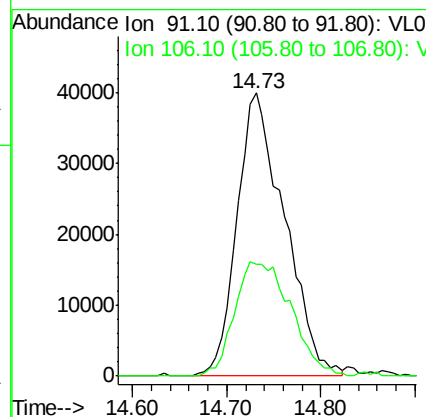
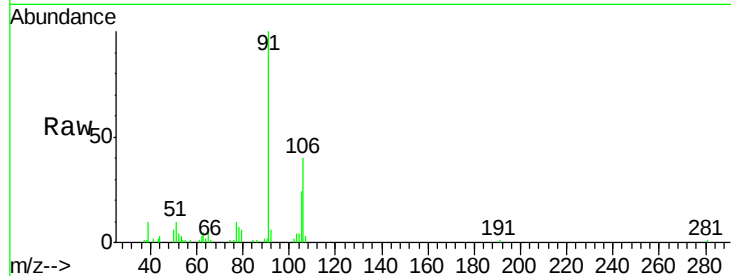
#59
m/p-Xylene
Concen: 0.30 ppbv
RT: 14.73 min Scan# 1910
Delta R.T. 0.03 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

Instrument :
MSVOA_L
ClientSampled :
QA-1

Tot Ion: 91 Resp: 140434
Ion Ratio Lower Upper
91 100
106 48.1 36.6 55.0

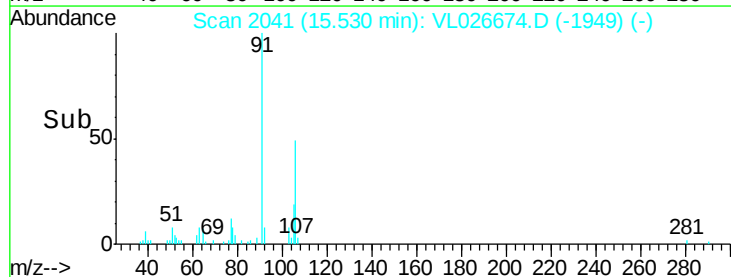
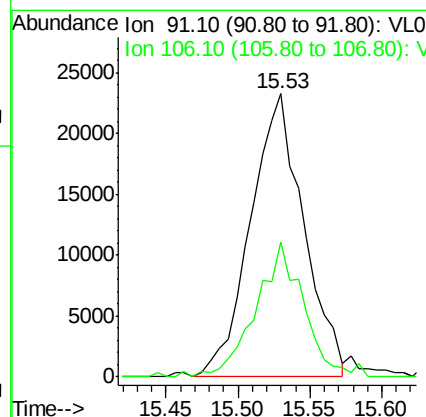
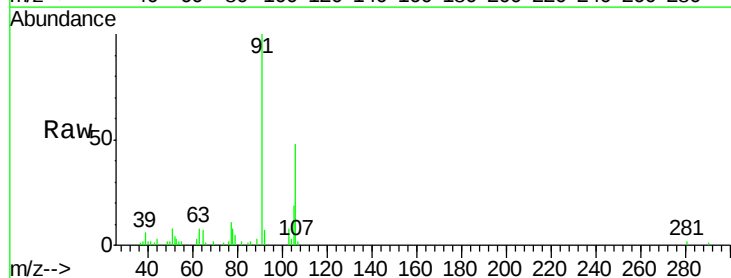
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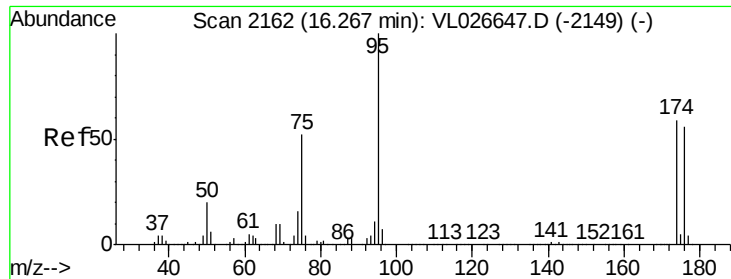
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#60
o-Xylene
Concen: 0.12 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. 0.06 min
Lab File: VL026674.D
Acq: 12 Jan 2016 14:43

Tgt Ion: 91 Resp: 59593
Ion Ratio Lower Upper
91 100
106 43.1 21.5 64.5





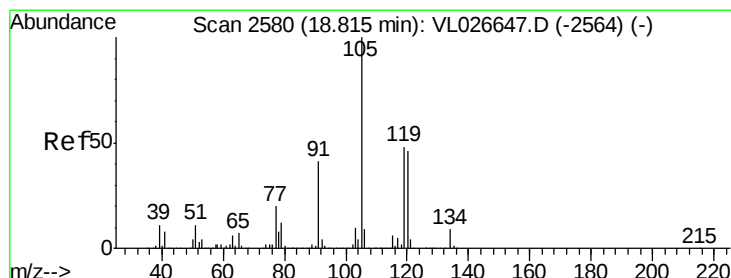
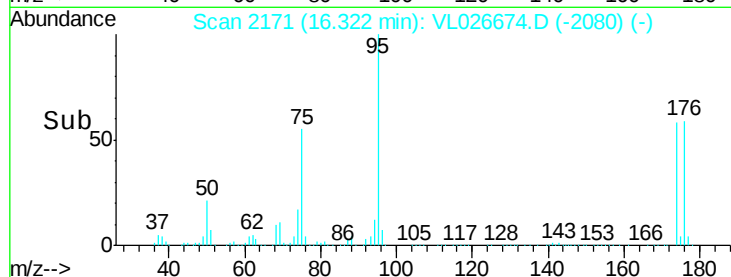
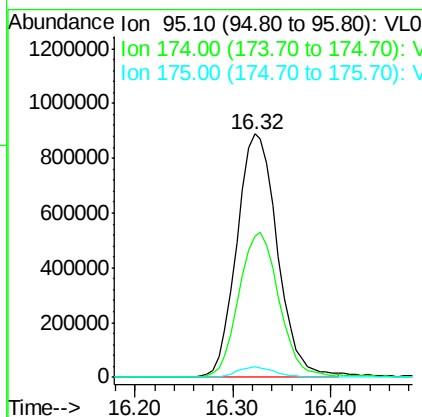
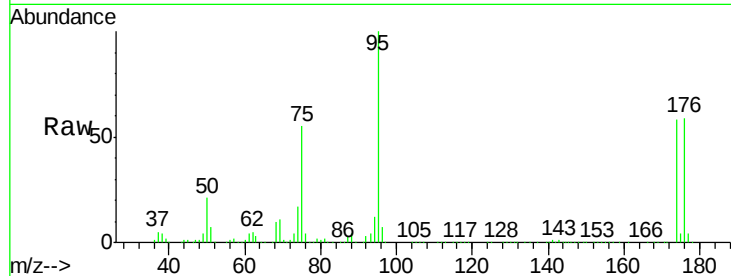
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.18 ppbv
 RT: 16.32 min Scan# 2171
 Delta R.T. 0.05 min
 Lab File: VL026674.D
 Acq: 12 Jan 2016 14:43

Instrument :
 MSVOA_L
 ClientSampled :
 OA-1

Tot Ion: 95 Resp: 2557857
 Ion Ratio Lower Upper
 95 100
 174 60.2 47.8 71.8
 175 4.4 3.6 5.4

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.19 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. 0.06 min
 Lab File: VL026674.D
 Acq: 12 Jan 2016 14:43

Tgt Ion: 105 Resp: 107095
 Ion Ratio Lower Upper
 105 100
 120 44.8 36.6 55.0
 91 9.2 32.5 48.7#
 77 12.6 15.7 23.5#

